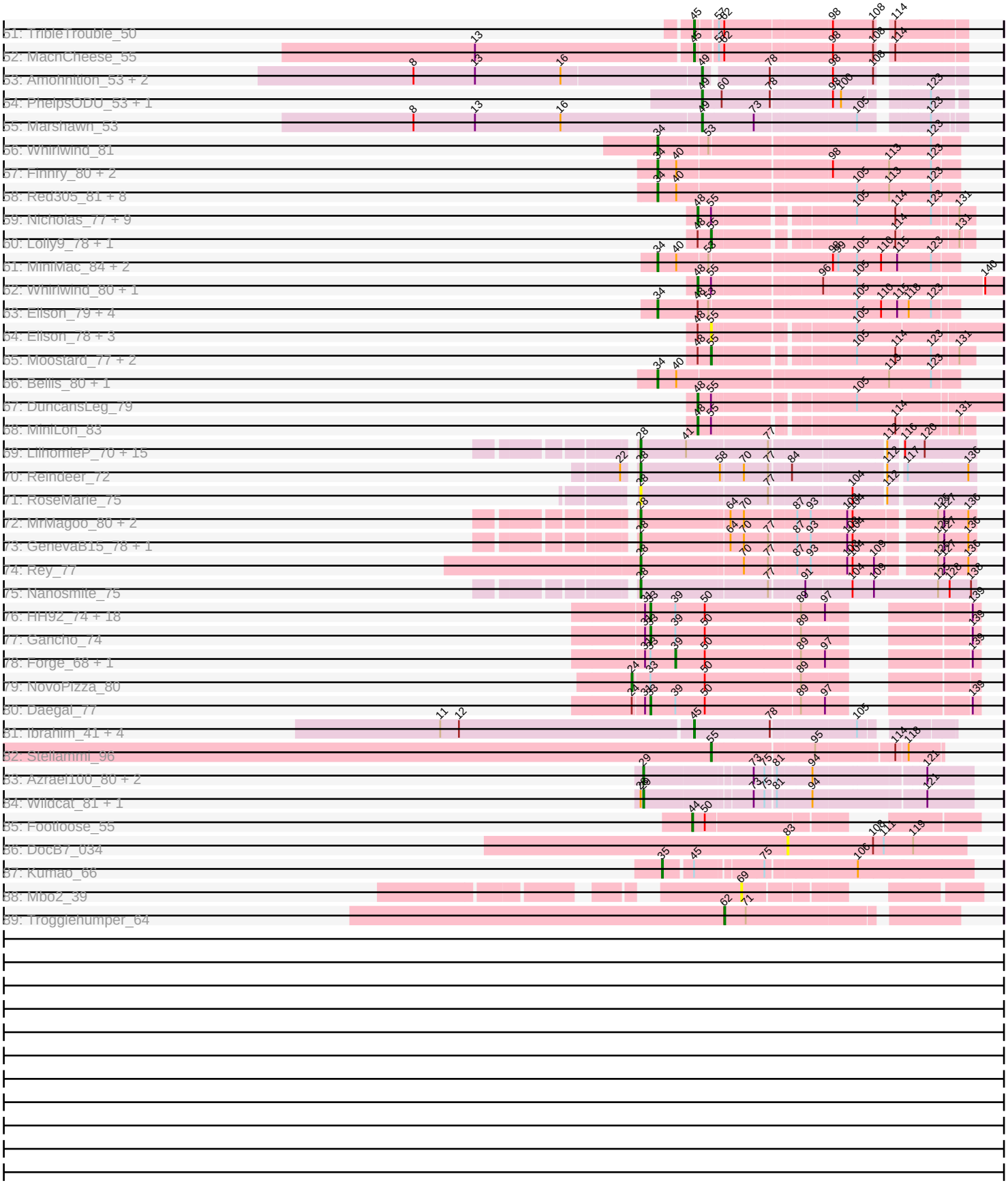
Pham 347077


1: Weird019_70
2: JustASign_72
3: IdentityCrisis_42
4: WST1_43
5: Lishka_37 + 2
6: Reynauld_48
7: Smiaccoli3_46
8: Demosthenes_39 + 8
9: Niagara_39
10: RobinSparkles_47
11: Gmala1_46 + 1
12: GordTnk2_48
13: Jumbo_47 + 1
14: Skog_114
15: CherryTomatoes_55 + 2
16: Keelan_94
17: GoldenSpark_97 + 129
18: Cookies_90 + 13
19: Budgie_99
20: ThirteenKH_7 + 4
21: RicoCaldo_7 + 5
22: Zizzle_63 + 91
23: Plumbus_61 + 52
24: Ibhubesi_59 + 1
25: DeadP_65
26: RockyHorror_60
27: PatoPoderoso_56 + 6
28: Cheesepuff_66 + 6
29: Nitzel_57
30: ByChance_51
31: SG4_56 + 6
32: Taj_63
33: RedBird_57
34: Owis12W_59 + 1
35: GigiOuiOui_55
36: Kersh_61
37: Beanstalk_57
38: Jennelsea_57
39: BlueCrab_59
40: LunaStella_58 + 2
41: Renaud18_65 + 1
42: YChen_60
43: Toron_68
44: Chris_53
45: KISI_55 + 1
46: Chavito_54
47: Hurricane_53
48: Lea83_53
49: Pixie_52 + 3
50: Pharo_50

Pham 347077


51: TribleTrouble_50
52: MachCheese_55
53: Amohnition_53 + 2
54: PhelpsODU_53 + 1
55: Marshawn_53
56: Whirlwind_81
57: Finnry_80 + 2
58: Red305_81 + 8
59: Nicholas_77 + 9
60: Lolly9_78 + 1
61: MiniMac_84 + 2
62: Whirlwind_80 + 1
63: Ellson_79 + 4
64: Ellson_78 + 3
65: Moostard_77 + 2
66: Bellis_80 + 1
67: DuncansLeg_79
68: MiniLon_83
69: LilnomieP_70 + 15
70: Reindeer_72
71: RoseMarie_75
72: MrMagoo_80 + 2
73: GenevaB15_78 + 1
74: Rey_77
75: Nanosmite_75
76: HH92_74 + 18
77: Gancho_74
78: Forge_68 + 1
79: NovoPizza_80
80: Daegal_77
81: Ibrahim_41 + 4
82: Stellammi_96
83: Azrael100_80 + 2
84: Wildcat_81 + 1
85: Footloose_55
86: DocB7_034
87: Kumao_66
88: Mbo2_39
89: Trogglehumper_64

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 347077 Report

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

Pham number 347077 has 504 members, 47 are drafts.

Phages represented in each track:
• Track 1 : Weirdo19_70
• Track 2 : JustASigh_72
• Track 3 : IdentityCrisis_42
• Track 4 : WST1_43
• Track 5 : Lishka_37, PapayaSalad_40, Austintatious_37
• Track 6 : Reynauld_48
• Track 7 : Srilaccoli3_46
• Track 8 : Demosthenes_39, Kvothe_39, Tredge_40, Benczkowski14_39, Teech_40, ASerpRocky_40, Teatealatte_40, Katyusha_39, Hollow_40
• Track 9 : Niagara_39
• Track 10 : RobinSparkles_47
• Track 11 : Gmala1_46, GordDuk1_47
• Track 12 : GordTnk2_48
• Track 13 : Jumbo_47, GMA3_48
• Track 14 : Skog_114
• Track 15 : CherryTomatoes_55, SCentae_53, Pupper_53
• Track 16 : Keelan_94
• Track 17 : GoldenSpark_97, Thimble_95, HanKaySha_94, Lilpickle_92, BigBubba_93, Terminus_96, Highbury_92, CrystalP_92, Cjw1_94, YassJohnny_90, ShamWow_93, Cactus_96, ChosenOne_93, TeardropMSU_89, Kostya_93, Inca_90, Youngblood_96, Henry_91, Simpliphy_92, GooberAzure_96, Xandras_92, Brewer_89, Holt_98, Contagion_89, MadamMonkfish_93, Murica_96, Paperbeatsrock_92, NoSleep_94, Nala_95, Flypotenuse_89, JeTaime_94, PaddyBaddy_94, OrionPax_92, Greep_97, Lilizi_94, Porky_92, Icee_94, Gemini_98, Kimchi_97, Tarkin_92, MollyToe_88, BilboSwaggins_91, Gage_95, ShereKhan_91, Willez_88, Hopey_94, FireRed_97, Dusk_90, Dumbo_93, Quallification_94, Palpatine_95, FairyPath_94, Stark_95, NelitzaMV_91, Eureka_92, Hoonter_96, SirDuracell_93, BaboJay_93, Sotrice96_94, Murphy_93, Lilac_96, Goldilocks_96, StolenFromERC_96, Tuco_94, NonchalantPear_93, Miniwave_88, Amao_93, MISSy_94, Phrux_91, Glexan_92, Bruin_90, Thresher_96, Bench_96, Command613_95, Becksu_92, Rakim_94, Mosby_89, Marshmallow_91, Misfit_94, 244_94, AmericanBeauty_97, Myrale_93, Manda_95, Teaspoon_94, Nimrod_94, Pumpkin_97, SophKB_90, Tomaszewski_88, ABCat_90, Sassay_88, Wiggin_95, Phaja_91, Goku_92, Argent26_97, BadStone_90, Saints25_92, Asriel_91, Elph10_94, DrDrey_93, TBrady12_96, PhatBacter_97, Toto_91, HufflyPuff_95, xkcd_96, Harella_93, Adnama_97, Traaww1_89, IHOP_91, Pharsalus_90, MPhalcon_94, BugsBunny_93, Filch_95, Policronamos_96, StellaBean_91,

Ukulele_88, Czyszczon1_94, Maxxinista_96, Mindy_92, Easy2Say_94, Moldemort_96, Livelaughbron_95, Stank_95, Emmina_93, RiverMonster_94, Elite2014_92, Kanye_90, Bogg_93, Barbarian_92, Ptowny_90, Phaux_96
• Track 18 : Cookies_90, Buck_94, FoghornLeghorn_87, TeamEdward_93, Balomoji_93, Rimmer_91, Bask21_93, DoctorDiddles_92, Gator_91, Daikon_94, StormChicken_95, Petra64142_98, Pat3_90, ChotaBhai_93
• Track 19 : Budgie_99
• Track 20 : ThirteenKH_7, Atraxi_7, Yafa_7, TrippleS_7, Morrill_7
• Track 21 : RicoCaldo_7, StagePhright_7, Fullmetal_7, Astartes_7, PhriedRice_7, Moleficent_7
• Track 22 : Zizzle_63, Phatniss_57, Rita_60, Scottish_57, Zerg_59, Soul22_65, EleanorGeorge_60, Rockne_60, Koella_53, Mozy_68, Zapner_72, Llij_55, Maravista_60, Radiance_58, Totinger_58, James_63, Pippy_57, UncleRicky_58, VRedHorse_59, LastJedi_53, Tootsieroll_60, Crumble_54, Fancypants_61, Mandlovu_55, Marker_61, Drago_57, Blexus_57, Strokeseat_55, Karhdo_56, Sabbb_63, Jabbawokkie_73, GUmbie_57, Whouxphf_56, Lucia_58, Dante_60, DirtMcgirt_58, Byougenkin_57, Chuckly_62, Clifton_54, PMC_56, Hlubikazi_55, Peridot_57, Blarby_71, Boomer_64, Mattes_63, Firehouse51_60, Slim_60, Mutaforma13_63, Spikelee_66, ShowerHandel_62, Burwell21_57, SiSi_57, Vivum_60, SwagPigglett_64, Madiba_57, Pollywog_60, NormanBulbieJr_59, Gorge_63, IrishSherpFalk_60, Priscilla_59, Saal_61, BuzzLyseyear_65, Alexphander_63, DaddyRickover_58, Mahavrat_57, Doug_61, OlympiaSaint_61, ShroomBoi_61, Yorick_58, Hades_60, WillSterrel_60, Jarcob_59, Violac_61, Latretium_61, Mova_60, Eradicator_52, Martik_59, OldBen_56, KristaRAM_62, Spartacus_61, Gandalph_62, Emmaloid_60, LittleShirley_58, BobaPhett_63, Brocalys_54, ShiLan_58, MadMen_57, Cabrinians_60, FreddyB_60, Rialto_65, Lorde_59, Lizziana_65
• Track 23 : Plumbus_61, NewHope4_60, Daenerys_53, AlpineSix_64, Doomslug_68, Job42_61, Pacc40_53, LunaBlu_61, Nivrat_55, Dorothy_57, KingMidas_58, Avani_67, Seabastian_64, Jinglebell_64, Ochi17_62, Leozinho_58, SimranZ1_59, DosHalletts_61, SeaLumen_63, Stap_57, Nichirin_65, Modragons_63, Inventum_54, Clank_64, Phasih_57, Leperchaun_51, Girr_57, JoeyJr_54, PHappiness_54, Ruby_55, Mwanjiwa_65, Cornucopia_61, LilMoolah_57, Polo2Bam_64, Doomphist_59, Empress_57, Fastidio_59, Poenanya_59, Estave1_62, Sassafras_57, OfUltron_64, Oksu_65, Spoonbill_56, Llama_64, DRBy19_62, RitaG_54, DillTech15_56, MisterCuddles_57, Galactic_58, Enzomatic_65, Philus_62, Polka14_57, BodEinwohner17_59
• Track 24 : Ibhubesi_59, Veteran_56
• Track 25 : DeadP_65
• Track 26 : RockyHorror_60
• Track 27 : PatoPoderoso_56, Eish_63, EmiMonkey_57, KingJulian_59, DaWorst_60, PhlipPhlop_59, Corium_56
• Track 28 : Cheesepuff_66, MulchExplorer_62, QuickMath_61, Starcevich_59, Kimberlium_62, Topiatin_67, Cornie_55
• Track 29 : Nitzel_57
• Track 30 : ByChance_51
• Track 31 : SG4_56, Wee_63, IbOuu_58, Hegedechwinu_59, MinionDave_58, Enby_60, CaptainTrips_56
• Track 32 : Taj_63
• Track 33 : RedBird_57
• Track 34 : OwlsT2W_59, Grimmer_66
• Track 35 : GigiOuiOui_55
• Track 36 : Kersh_61

• Track 37 : Beanstalk_57
• Track 38 : Jennelsea_57
• Track 39 : BlueCrab_59
• Track 40 : LunaStella_58, Yoshi_72, ThetaBob_64
• Track 41 : Renaud18_65, Demsculpinboyz_70
• Track 42 : TChen_60
• Track 43 : Toron_68
• Track 44 : Chris_53
• Track 45 : KiSi_55, LeMond_55
• Track 46 : Chavito_54
• Track 47 : Hurricane_53
• Track 48 : Lea83_53
• Track 49 : Pixie_52, Keshu_55, TBond007_51, ShedlockHolmes_54
• Track 50 : Pharb_50
• Track 51 : TribleTrouble_50
• Track 52 : MacnCheese_55
• Track 53 : Amohnition_53, Hammy_53, DarthP_53
• Track 54 : PhelpsODU_53, Unicorn_53
• Track 55 : Marshawn_53
• Track 56 : Whirlwind_81
• Track 57 : Finnry_80, Moostard_78, Samty_79
• Track 58 : Red305_81, Clautastrophe_78, Kingsolomon_78, Snenia_79, Lumos_80, Nicholas_78, Jobypre_80, MsGreen_80, Jubie_79
• Track 59 : Nicholas_77, Clautastrophe_77, Kingsolomon_77, Snenia_78, Finnry_79, Jubie_78, TriFive_80, Bellis_79, Jobypre_79, MsGreen_79
• Track 60 : Lolly9_78, MiniMac_83
• Track 61 : MiniMac_84, Lolly9_79, MiniLon_84
• Track 62 : Whirlwind_80, Krypton555_80
• Track 63 : Ellson_79, KirDoubleO7_78, BourbonZero_81, DuncansLeg_80, LiyuLake_79
• Track 64 : Ellson_78, BourbonZero_80, KirDoubleO7_77, LiyuLake_78
• Track 65 : Moostard_77, Red305_80, Samty_78
• Track 66 : Bellis_80, TriFive_81
• Track 67 : DuncansLeg_79
• Track 68 : MiniLon_83
• Track 69 : LilhomieP_70, FreakyGoo_72, Bongo_70, IPhane7_70, SlimJimmy_70, Skinny_73, Bricole_69, Dulcita_71, Auspice_70, Glaske16_72, Diminimus_71, TpudiCK_72, Izel_71, KleverKiS_69, PegLeg_69, TyDawg_70
• Track 70 : Reindeer_72
• Track 71 : RoseMarie_75
• Track 72 : MrMagoo_80, Estes_79, GardenSalsa_79
• Track 73 : GenevaB15_78, Aziz_77
• Track 74 : Rey_77
• Track 75 : Nanosmite_75
• Track 76 : HH92_74, Amymech_75, Webster2_75, OBUpride_74, Giles_68, Hadrien_72, LilHazelnut_75, Ubuntu_75, BloominB_74, DeepSoil15_75, Luke_72, Amochick_76, Dewey_68, Hail_68, Gravaillia_69, Evanesce_74, Ein37_75, Luna22_68, Kinbote_73
• Track 77 : Gancho_74
• Track 78 : Forge_68, Wishmaker_68
• Track 79 : NovoPizza_80
• Track 80 : Daegal_77
• Track 81 : Ibrahim_41, Nairb_40, ZenTime222_40, Bernal13_41, RonRayGun_41

• Track 82 : Stellammi_96
• Track 83 : Azrael100_80, EniyanLRS_77, Cosmo_81
• Track 84 : Wildcat_81, MaryV_81
• Track 85 : Footloose_55
• Track 86 : DocB7_034
• Track 87 : Kumao_66
• Track 88 : Mbo2_39
• Track 89 : Trogglehumper_64

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

The start number called the most often in the published annotations is 36, it was called in 174 of the 457 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Alexphander_63, AlpineSix_64, Avani_67, Beanstalk_57, Blarby_71, Blexus_57, BlueCrab_59, BobaPhett_63, BodEinwohner17_59, Boomer_64, Brocalys_54, Burwell21_57, BuzzLyseyear_65, ByChance_51, Byougenkin_57, Cabrinians_60, CaptainTrips_56, Cheesepuff_66, Chuckly_62, Clank_64, Clifton_54, Corium_56, Cornie_55, Cornucopia_61, Crumble_54, DRBy19_62, DaWorst_60, DaddyRickover_58, Daenerys_53, Dante_60, DeadP_65, Demsculpinboyz_70, DillTech15_56, DirtMcgirt_58, Doomphist_59, Doomslug_68, Dorothy_57, DosHalletts_61, Doug_61, Drago_57, Eish_63, EleanorGeorge_60, EmiMonkey_57, Emmaloid_60, Empress_57, Enby_60, Enzomatic_65, Eradicator_52, Estave1_62, Fancypants_61, Fastidio_59, Firehouse51_60, FreddyB_60, GUmbie_57, Galactic_58, Gandalph_62, GigiOuiOui_55, Girr_57, Gorge_63, Grimmer_66, Hades_60, Hegedechwinu_59, Hlubikazi_55, IbOuu_58, Ibhubesi_59, Inventum_54, IrishSherpFalk_60, Jabbawokkie_73, James_63, Jarcob_59, Jennelsea_57, Jinglebell_64, Job42_61, JoeyJr_54, Karhdo_56, Kersh_61, Kimberlium_62, KingJulian_59, KingMidas_58, Koella_53, KristaRAM_62, LastJedi_53, Latretium_61, Leozinho_58, Leperchaun_51, LilMoolah_57, LittleShirley_58, Lizziana_65, Llama_64, Llij_55, Lorde_59, Lucia_58, LunaBlu_61, LunaStella_58, MadMen_57, Madiba_57, Mahavrat_57, Mandlovu_55, Maravista_60, Marker_61, Martik_59, Mattes_63, MinionDave_58, MisterCuddles_57, Modragons_63, Mova_60, Mozy_68, MulchExplorer_62, Mutaforma13_63, Mwanjiwa_65, NewHope4_60, Nichirin_65, Nitzel_57, Nivrat_55, NormanBulbieJr_59, Ochi17_62, OfUltron_64, Oksu_65, OldBen_56, OlympiaSaint_61, OwlsT2W_59, PHappiness_54, PMC_56, Pacc40_53, PatoPoderoso_56, Peridot_57, Phasih_57, Phatniss_57, Philus_62, PhlipPhlop_59, Pippy_57, Plumbus_61, Poenanya_59, Polka14_57, Pollywog_60, Polo2Bam_64, Priscilla_59, QuickMath_61, Radiance_58, RedBird_57, Renaud18_65, Rialto_65, RitaG_54, Rita_60, Rockne_60, RockyHorror_60, Ruby_55, SG4_56, Saal_61, Sabbb_63, Sassafras_57, Scottish_57, SeaLumen_63, Seabastian_64, ShiLan_58, ShowerHandel_62, ShroomBoi_61, SiSi_57, SimranZ1_59, Slim_60, Soul22_65, Spartacus_61, Spikelee_66, Spoonbill_56, Stap_57, Starcevich_59, Strokeseat_55, SwagPigglett_64, ThetaBob_64, Tootsieroll_60, Topiatin_67, Totinger_58, UncleRicky_58, VRedHorse_59, Veteran_56, Violac_61, Vivum_60, Wee_63, Whouxphf_56, WillSterrel_60, Yorick_58, Yoshi_72, Zapner_72, Zerg_59, Zizzle_63,

Genes that have the "Most Annotated" start but do not call it:
• TChen_60,

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

• 244_94, ABCat_90, ASerpRocky_40, Adnama_97, Amao_93, AmericanBeauty_97, Amochick_76, Amohnition_53, Amymech_75, Argent26_97, Asriel_91, Astartes_7, Atraxi_7, Auspice_70, Austintatious_37, Aziz_77, Azrael100_80, BaboJay_93, BadStone_90, Balomoji_93, Barbarian_92, Bask21_93, Becksu_92, Bellis_79, Bellis_80, Bench_96, Benczkowski14_39, Bernal13_41, BigBubba_93, BilboSwaggins_91, BloominB_74, Bogg_93, Bongo_70, BourbonZero_80, BourbonZero_81, Brewer_89, Bricole_69, Bruin_90, Buck_94, Budgie_99, BugsBunny_93, Cactus_96, Chavito_54, CherryTomatoes_55, ChosenOne_93, ChotaBhai_93, Chris_53, Cjw1_94, Clautastrophe_77, Clautastrophe_78, Command613_95, Contagion_89, Cookies_90, Cosmo_81, CrystalP_92, Czyszczon1_94, Daegal_77, Daikon_94, DarthP_53, DeepSoil15_75, Demosthenes_39, Dewey_68, Diminimus_71, DocB7_034, DoctorDiddles_92, DrDrey_93, Dulcita_71, Dumbo_93, DuncansLeg_79, DuncansLeg_80, Dusk_90, Easy2Say_94, Ein37_75, Elite2014_92, Ellson_78, Ellson_79, Elph10_94, Emmina_93, EniyanLRS_77, Estes_79, Eureka_92, Evanesce_74, FairyPath_94, Filch_95, Finnry_79, Finnry_80, FireRed_97, Flypotenuse_89, FoghornLeghorn_87, Footloose_55, Forge_68, FreakyGoo_72, Fullmetal_7, GMA3_48, Gage_95, Gancho_74, GardenSalsa_79, Gator_91, Gemini_98, GenevaB15_78, Giles_68, Glaske16_72, Glexan_92, Gmala1_46, Goku_92, GoldenSpark_97, Goldilocks_96, GooberAzure_96, GordDuk1_47, GordTnk2_48, Gravaillia_69, Greep_97, HH92_74, Hadrien_72, Hail_68, Hammy_53, HanKaySha_94, Harella_93, Henry_91, Highbury_92, Hollow_40, Holt_98, Hoonter_96, Hopey_94, HufflyPuff_95, Hurricane_53, IHOP_91, IPhane7_70, Ibrahim_41, Icee_94, IdentityCrisis_42, Inca_90, Izel_71, JeTaime_94, Jobypre_79, Jobypre_80, Jubie_78, Jubie_79, Jumbo_47, JustASigh_72, Kanye_90, Katyusha_39, Keelan_94, Keshu_55, KiSi_55, Kimchi_97, Kinbote_73, Kingsolomon_77, Kingsolomon_78, KirDoubleO7_77, KirDoubleO7_78, KleverKiS_69, Kostya_93, Krypton555_80, Kumao_66, Kvothe_39, LeMond_55, Lea83_53, LilHazelnut_75, Lilac_96, LilhomieP_70, Lilizi_94, Lilpickle_92, Lishka_37, Livelaughbron_95, LiyuLake_78, LiyuLake_79, Lolly9_78, Lolly9_79, Luke_72, Lumos_80, Luna22_68, MISSy_94, MPhalcon_94, MacnCheese_55, MadamMonkfish_93, Manda_95, Marshawn_53, Marshmallow_91, MaryV_81, Maxxinista_96, Mbo2_39, Mindy_92, MiniLon_83, MiniLon_84, MiniMac_83, MiniMac_84, Miniwave_88, Misfit_94, Moldemort_96, Moleficent_7, MollyToe_88, Moostard_77, Moostard_78, Morrill_7, Mosby_89, MrMagoo_80, MsGreen_79, MsGreen_80, Murica_96, Murphy_93, Myrale_93, Nairb_40, Nala_95, Nanosmite_75, NelitzaMV_91, Niagara_39, Nicholas_77, Nicholas_78, Nimrod_94, NoSleep_94, NonchalantPear_93, NovoPizza_80, OBUpride_74, OrionPax_92, PaddyBaddy_94, Palpatine_95, PapayaSalad_40, Paperbeatsrock_92, Pat3_90, PegLeg_69, Petra64142_98, Phaja_91, Pharb_50, Pharsalus_90, PhatBacter_97, Phaux_96, PhelpsODU_53, PhriedRice_7, Phrux_91, Pixie_52, Policronamos_96, Porky_92, Ptowny_90, Pumpkin_97, Pupper_53, Quallification_94, Rakim_94, Red305_80, Red305_81, Reindeer_72, Rey_77, Reynauld_48, RicoCaldo_7, Rimmer_91, RiverMonster_94, RobinSparkles_47, RonRayGun_41, RoseMarie_75, SCentae_53, Saints25_92, Samty_78, Samty_79, Sassay_88, ShamWow_93, ShedlockHolmes_54, ShereKhan_91, Simpliphy_92, SirDuracell_93, Skinny_73, Skog_114, SlimJimmy_70, Snenia_78, Snenia_79, SophKB_90, Sotrice96_94, Srilaccoli3_46, StagePhright_7, Stank_95, Stark_95, StellaBean_91, Stellammi_96, StolenFromERC_96, StormChicken_95, TBond007_51, TBrady12_96, Taj_63, Tarkin_92, TeamEdward_93, TeardropMSU_89, Teaspoon_94, Teatealatte_40, Teech_40, Terminus_96, Thimble_95, ThirteenKH_7, Thresher_96, Tomaszewski_88, Toron_68, Toto_91, TpudiCK_72, Traaww1_89, Tredge_40,

TriFive_80, TriFive_81, TribleTrouble_50, TrippleS_7, Trogglehumper_64, Tuco_94, TyDawg_70, Ubuntu_75, Ukulele_88, Unicorn_53, WST1_43, Webster2_75, Weirdo19_70, Whirlwind_80, Whirlwind_81, Wiggin_95, Wildcat_81, Willez_88, Wishmaker_68, Xandras_92, Yafa_7, YassJohnny_90, Youngblood_96, ZenTime222_40, xkcd_96,

Summary by start number:

Start 18:
• Found in 1 of 504 (0.2%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Weirdo19_70 (AH),

Start 20:
• Found in 2 of 504 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 457
• Called 50.0% of time when present
• Phage (with cluster) where this start called: JustASigh_72 (AH),

Start 21:
• Found in 1 of 504 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 457
• Called 100.0% of time when present
• Phage (with cluster) where this start called: RobinSparkles_47 (CX),

Start 24:
• Found in 3 of 504 (0.6%) of genes in pham
• Manual Annotations of this start: 2 of 457
• Called 66.7% of time when present
• Phage (with cluster) where this start called: NovoPizza_80 (Q), Skog_114 (DO),

Start 28:
• Found in 27 of 504 (5.4%) of genes in pham
• Manual Annotations of this start: 22 of 457
• Called 92.6% of time when present
• Phage (with cluster) where this start called: Auspice_70 (M1), Aziz_77 (M2), Bongo_70 (M1), Bricole_69 (M1), Diminimus_71 (M1), Dulcita_71 (M1), Estes_79 (M2), FreakyGoo_72 (M1), GardenSalsa_79 (M2), GenevaB15_78 (M2), Glaske16_72 (M1), IPhane7_70 (M1), Izel_71 (M1), KleverKiS_69 (M1), LilhomieP_70 (M1), MrMagoo_80 (M2), Nanosmite_75 (M3), PegLeg_69 (M1), Reindeer_72 (M1), Rey_77 (M2), RoseMarie_75 (M1), Skinny_73 (M1), SlimJimmy_70 (M1), TpudiCK_72 (M1), TyDawg_70 (M1),

Start 29:
• Found in 5 of 504 (1.0%) of genes in pham
• Manual Annotations of this start: 5 of 457
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Azrael100_80 (V), Cosmo_81 (V), EniyanLRS_77 (V), MaryV_81 (V), Wildcat_81 (V),

Start 33:
• Found in 27 of 504 (5.4%) of genes in pham

• Manual Annotations of this start: 24 of 457
• Called 88.9% of time when present
• Phage (with cluster) where this start called: Amochick_76 (Q), Amymech_75 (Q), BloominB_74 (Q), CherryTomatoes_55 (DO), Daegal_77 (Q), DeepSoil15_75 (Q), Dewey_68 (Q), Ein37_75 (Q), Evanesce_74 (Q), Gancho_74 (Q), Giles_68 (Q), Gravaillia_69 (Q), HH92_74 (Q), Hadrien_72 (Q), Hail_68 (Q), Kinbote_73 (Q), LilHazelnut_75 (Q), Luke_72 (Q), Luna22_68 (Q), OBUpride_74 (Q), Pupper_53 (DO), SCentae_53 (DO), Ubuntu_75 (Q), Webster2_75 (Q),

Start 34:
• Found in 23 of 504 (4.6%) of genes in pham
• Manual Annotations of this start: 18 of 457
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bellis_80 (L3), BourbonZero_81 (L3), Clautastrophe_78 (L3), DuncansLeg_80 (L3), Ellson_79 (L3), Finnry_80 (L3), Jobypre_80 (L3), Jubie_79 (L3), Kingsolomon_78 (L3), KirDoubleO7_78 (L3), LiyuLake_79 (L3), Lolly9_79 (L3), Lumos_80 (L3), MiniLon_84 (L3), MiniMac_84 (L3), Moostard_78 (L3), MsGreen_80 (L3), Nicholas_78 (L3), Red305_81 (L3), Samty_79 (L3), Snenia_79 (L3), TriFive_81 (L3), Whirlwind_81 (L3),

Start 35:
• Found in 3 of 504 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 457
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Kumao_66 (singleton),

Start 36:
• Found in 186 of 504 (36.9%) of genes in pham
• Manual Annotations of this start: 174 of 457
• Called 99.5% of time when present
• Phage (with cluster) where this start called: Alexphander_63 (F1), AlpineSix_64 (F1), Avani_67 (F2), Beanstalk_57 (F1), Blarby_71 (F), Blexus_57 (F1), BlueCrab_59 (F1), BobaPhett_63 (F1), BodEinwohner17_59 (F1), Boomer_64 (F1), Brocalys_54 (F1), Burwell21_57 (F1), BuzzLyseyear_65 (F1), ByChance_51 (F1), Byougenkin_57 (F1), Cabrinians_60 (F1), CaptainTrips_56 (F1), Cheesepuff_66 (F1), Chuckly_62 (F1), Clank_64 (F), Clifton_54 (F1), Corium_56 (F1), Cornie_55 (F5), Cornucopia_61 (F1), Crumble_54 (F1), DRBy19_62 (F1), DaWorst_60 (F1), DaddyRickover_58 (F1), Daenerys_53 (F1), Dante_60 (F1), DeadP_65 (F1), Demsculpinboyz_70 (F2), DillTech15_56 (F1), DirtMcgirt_58 (F1), Doomphist_59 (F1), Doomslug_68 (F), Dorothy_57 (F1), DosHalletts_61 (F1), Doug_61 (F1), Drago_57 (F1), Eish_63 (F1), EleanorGeorge_60 (F1), EmiMonkey_57 (F1), Emmaloid_60 (F1), Empress_57 (F1), Enby_60 (F1), Enzomatic_65 (F1), Eradicator_52 (F1), Estave1_62 (F1), Fancypants_61 (F1), Fastidio_59 (F1), Firehouse51_60 (F1), FreddyB_60 (F1), GUmbie_57 (F1), Galactic_58 (F1), Gandalph_62 (F1), GigiOuiOui_55 (F1), Girr_57 (F1), Gorge_63 (F1), Grimmer_66 (F1), Hades_60 (F1), Hegedechwinu_59 (F1), Hlubikazi_55 (F1), IbOuu_58 (F1), Ibhubesi_59 (F1), Inventum_54 (F1), IrishSherpFalk_60 (F1), Jabbawokkie_73 (F2), James_63 (F1), Jarcob_59 (F1), Jennelsea_57 (F1), Jinglebell_64 (F1), Job42_61 (F1), JoeyJr_54 (F1), Karhdo_56 (F1), Kersh_61 (F1), Kimberlium_62 (F1), KingJulian_59 (F1), KingMidas_58 (F1), Koella_53 (F1), KristaRAM_62 (F1), LastJedi_53 (F1), Latretium_61 (F1), Leozinho_58 (F1), Leperchaun_51 (F1), LilMoolah_57 (F1), LittleShirley_58 (F1), Lizziana_65 (F1), Llama_64 (F1), Llij_55 (F1), Lorde_59 (F1), Lucia_58 (F1), LunaBlu_61 (F1), LunaStella_58 (F4), MadMen_57 (F1), Madiba_57 (F1),

Mahavrat_57 (F1), Mandlovu_55 (F1), Maravista_60 (F1), Marker_61 (F1), Martik_59 (F1), Mattes_63 (F1), MinionDave_58 (F1), MisterCuddles_57 (F1), Modragons_63 (F1), Mova_60 (F1), Mozy_68 (F1), MulchExplorer_62 (F1), Mutaforma13_63 (F1), Mwanjiwa_65 (F1), NewHope4_60 (F1), Nichirin_65 (F1), Nitzel_57 (F1), Nivrat_55 (F1), NormanBulbieJr_59 (F1), Ochi17_62 (F1), OfUltron_64 (F1), Oksu_65 (F1), OldBen_56 (F1), OlympiaSaint_61 (F1), OwlsT2W_59 (F1), PHappiness_54 (F1), PMC_56 (F1), Pacc40_53 (F1), PatoPoderoso_56 (F1), Peridot_57 (F1), Phasih_57 (F1), Phatniss_57 (F1), Philus_62 (F1), PhlipPhlop_59 (F1), Pippy_57 (F1), Plumbus_61 (F1), Poenanya_59 (F1), Polka14_57 (F1), Pollywog_60 (F1), Polo2Bam_64 (F1), Priscilla_59 (F1), QuickMath_61 (F1), Radiance_58 (F1), RedBird_57 (F1), Renaud18_65 (F4), Rialto_65 (F1), RitaG_54 (F1), Rita_60 (F1), Rockne_60 (F1), RockyHorror_60 (F1), Ruby_55 (F1), SG4_56 (F1), Saal_61 (F1), Sabbb_63 (F1), Sassafras_57 (F1), Scottish_57 (F1), SeaLumen_63 (F1), Seabastian_64 (F1), ShiLan_58 (F1), ShowerHandel_62 (F1), ShroomBoi_61 (F1), SiSi_57 (F1), SimranZ1_59 (F1), Slim_60 (F1), Soul22_65 (F2), Spartacus_61 (F1), Spikelee_66 (F1), Spoonbill_56 (F1), Stap_57 (F1), Starcevich_59 (F1), Strokeseat_55 (F1), SwagPigglett_64 (F1), ThetaBob_64 (F4), Tootsieroll_60 (F1), Topiatin_67 (F1), Totinger_58 (F1), UncleRicky_58 (F1), VRedHorse_59 (F1), Veteran_56 (F1), Violac_61 (F1), Vivum_60 (F1), Wee_63 (F1), Whouxphf_56 (F1), WillSterrel_60 (F1), Yorick_58 (F1), Yoshi_72 (F2), Zapner_72 (F2), Zerg_59 (F1), Zizzle_63 (F1),

Start 39:
• Found in 24 of 504 (4.8%) of genes in pham
• Manual Annotations of this start: 2 of 457
• Called 8.3% of time when present
• Phage (with cluster) where this start called: Forge_68 (Q), Wishmaker_68 (Q),

Start 42:
• Found in 6 of 504 (1.2%) of genes in pham
• Manual Annotations of this start: 1 of 457
• Called 16.7% of time when present
• Phage (with cluster) where this start called: TChen_60 (F4),

Start 44:
• Found in 4 of 504 (0.8%) of genes in pham
• Manual Annotations of this start: 4 of 457
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Austintatious_37 (BC3), Footloose_55 (singleton), Lishka_37 (BC3), PapayaSalad_40 (BC3),

Start 45:
• Found in 15 of 504 (3.0%) of genes in pham
• Manual Annotations of this start: 14 of 457
• Called 93.3% of time when present
• Phage (with cluster) where this start called: Bernal13_41 (T), Hurricane_53 (K3), Ibrahim_41 (T), Keshu_55 (K3), Lea83_53 (K3), MacnCheese_55 (K3), Nairb_40 (T), Pharb_50 (K3), Pixie_52 (K3), RonRayGun_41 (T), ShedlockHolmes_54 (K3), TBond007_51 (K3), TribleTrouble_50 (K3), ZenTime222_40 (T),

Start 46:
• Found in 1 of 504 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 457

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Keelan_94 (DP),

Start 48:
• Found in 28 of 504 (5.6%) of genes in pham
• Manual Annotations of this start: 14 of 457
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Bellis_79 (L3), Clautastrophe_77 (L3), DuncansLeg_79 (L3), Finnry_79 (L3), Jobypre_79 (L3), Jubie_78 (L3), Kingsolomon_77 (L3), Krypton555_80 (L3), MiniLon_83 (L3), MsGreen_79 (L3), Nicholas_77 (L3), Snenia_78 (L3), TriFive_80 (L3), Whirlwind_80 (L3),

Start 49:
• Found in 9 of 504 (1.8%) of genes in pham
• Manual Annotations of this start: 6 of 457
• Called 77.8% of time when present
• Phage (with cluster) where this start called: Amohnition_53 (K6), Chavito_54 (K1), DarthP_53 (K6), Hammy_53 (K6), Marshawn_53 (K6), PhelpsODU_53 (K6), Unicorn_53 (K6),

Start 50:
• Found in 170 of 504 (33.7%) of genes in pham
• Manual Annotations of this start: 134 of 457
• Called 85.3% of time when present
• Phage (with cluster) where this start called: 244_94 (E), ABCat_90 (E), Adnama_97 (E), Amao_93 (E), AmericanBeauty_97 (E), Argent26_97 (E), Asriel_91 (E), BaboJay_93 (E), BadStone_90 (E), Balomoji_93 (E), Barbarian_92 (E), Bask21_93 (E), Becksu_92 (E), Bench_96 (E), BigBubba_93 (E), BilboSwaggins_91 (E), Bogg_93 (E), Brewer_89 (E), Bruin_90 (E), Buck_94 (E), Budgie_99 (E), BugsBunny_93 (E), Cactus_96 (E), ChosenOne_93 (E), ChotaBhai_93 (E), Cjw1_94 (E), Command613_95 (E), Contagion_89 (E), Cookies_90 (E), CrystalP_92 (E), Czyszczon1_94 (E), Daikon_94 (E), DoctorDiddles_92 (E), DrDrey_93 (E), Dumbo_93 (E), Dusk_90 (E), Easy2Say_94 (E), Elite2014_92 (E), Elph10_94 (E), Emmina_93 (E), Eureka_92 (E), FairyPath_94 (E), Filch_95 (E), FireRed_97 (E), Flypotenuse_89 (E), FoghornLeghorn_87 (E), Gage_95 (E), Gator_91 (E), Gemini_98 (E), Glexan_92 (E), Goku_92 (E), GoldenSpark_97 (E), Goldilocks_96 (E), GooberAzure_96 (E), Greep_97 (E), HanKaySha_94 (E), Harella_93 (E), Henry_91 (E), Highbury_92 (E), Holt_98 (E), Hoonter_96 (E), Hopey_94 (E), HufflyPuff_95 (E), IHOP_91 (E), Icee_94 (E), Inca_90 (E), JeTaime_94 (E), Kanye_90 (E), Kimchi_97 (E), Kostya_93 (E), Lilac_96 (E), Lilizi_94 (E), Lilpickle_92 (E), Livelaughbron_95 (E), MISSy_94 (E), MPhalcon_94 (E), MadamMonkfish_93 (E), Manda_95 (E), Marshmallow_91 (E), Maxxinista_96 (E), Mindy_92 (E), Miniwave_88 (E), Misfit_94 (E), Moldemort_96 (E), MollyToe_88 (E), Mosby_89 (E), Murica_96 (E), Murphy_93 (E), Myrale_93 (E), Nala_95 (E), NelitzaMV_91 (E), Nimrod_94 (E), NoSleep_94 (E), NonchalantPear_93 (E), OrionPax_92 (E), PaddyBaddy_94 (E), Palpatine_95 (E), Paperbeatsrock_92 (E), Pat3_90 (E), Petra64142_98 (E), Phaja_91 (E), Pharsalus_90 (E), PhatBacter_97 (E), Phaux_96 (E), Phrux_91 (E), Policronamos_96 (E), Porky_92 (E), Ptowny_90 (E), Pumpkin_97 (E), Quallification_94 (E), Rakim_94 (E), Rimmer_91 (E), RiverMonster_94 (E), Saints25_92 (E), Sassay_88 (E), ShamWow_93 (E), ShereKhan_91 (E), Simpliphy_92 (E), SirDuracell_93 (E), SophKB_90 (E), Sotrice96_94 (E), Stank_95 (E), Stark_95 (E), StellaBean_91 (E), StolenFromERC_96 (E), StormChicken_95 (E), TBrady12_96 (E), Tarkin_92 (E), TeamEdward_93 (E), TeardropMSU_89 (E), Teaspoon_94 (E), Terminus_96 (E),

Thimble_95 (E), Thresher_96 (E), Tomaszewski_88 (E), Toto_91 (E), Traaww1_89 (E), Tuco_94 (E), Ukulele_88 (E), Wiggin_95 (E), Willez_88 (E), Xandras_92 (E), YassJohnny_90 (E), Youngblood_96 (E), xkcd_96 (E),

Start 51:
• Found in 5 of 504 (1.0%) of genes in pham
• Manual Annotations of this start: 1 of 457
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GMA3_48 (DF2), Gmala1_46 (DF1), GordDuk1_47 (DF1), GordTnk2_48 (DF1), Jumbo_47 (DF3),

Start 52:
• Found in 5 of 504 (1.0%) of genes in pham
• Manual Annotations of this start: 3 of 457
• Called 60.0% of time when present
• Phage (with cluster) where this start called: Chris_53 (K1), KiSi_55 (K1), LeMond_55 (K1),

Start 55:
• Found in 24 of 504 (4.8%) of genes in pham
• Manual Annotations of this start: 5 of 457
• Called 41.7% of time when present
• Phage (with cluster) where this start called: BourbonZero_80 (L3), Ellson_78 (L3), KirDoubleO7_77 (L3), LiyuLake_78 (L3), Lolly9_78 (L3), MiniMac_83 (L3), Moostard_77 (L3), Red305_80 (L3), Samty_78 (L3), Stellammi_96 (UNK),

Start 58:
• Found in 3 of 504 (0.6%) of genes in pham
• Manual Annotations of this start: 2 of 457
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Reynauld_48 (CH), Srilaccoli3_46 (CH),

Start 61:
• Found in 2 of 504 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 457
• Called 50.0% of time when present
• Phage (with cluster) where this start called: IdentityCrisis_42 (AJ),

Start 62:
• Found in 14 of 504 (2.8%) of genes in pham
• Manual Annotations of this start: 10 of 457
• Called 85.7% of time when present
• Phage (with cluster) where this start called: Astartes_7 (EK2), Atraxi_7 (EK2), Fullmetal_7 (EK2), Moleficent_7 (EK2), Morrill_7 (EK2), PhriedRice_7 (EK2), RicoCaldo_7 (EK2), StagePhright_7 (EK2), ThirteenKH_7 (EK2), TrippleS_7 (EK2), Trogglehumper_64 (singleton), Yafa_7 (EK2),

Start 63:
• Found in 145 of 504 (28.8%) of genes in pham
• No Manual Annotations of this start.
• Called 0.7% of time when present
• Phage (with cluster) where this start called: Toron_68 (F6),

Start 64:
• Found in 6 of 504 (1.2%) of genes in pham
• Manual Annotations of this start: 1 of 457
• Called 16.7% of time when present
• Phage (with cluster) where this start called: Taj_63 (F1),

Start 66:
• Found in 10 of 504 (2.0%) of genes in pham
• Manual Annotations of this start: 10 of 457
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ASerpRocky_40 (CS4), Benczkowski14_39 (CS4), Demosthenes_39 (CS4), Hollow_40 (CS4), Katyusha_39 (CS4), Kvothe_39 (CS4), Niagara_39 (CS4), Teatealatte_40 (CS4), Teech_40 (CS4), Tredge_40 (CS4),

Start 67:
• Found in 3 of 504 (0.6%) of genes in pham
• No Manual Annotations of this start.
• Called 33.3% of time when present
• Phage (with cluster) where this start called: WST1_43 (AJ),

Start 69:
• Found in 6 of 504 (1.2%) of genes in pham
• No Manual Annotations of this start.
• Called 16.7% of time when present
• Phage (with cluster) where this start called: Mbo2_39 (singleton),

Start 83:
• Found in 1 of 504 (0.2%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DocB7_034 (singleton),

Summary by clusters:

There are 31 clusters represented in this pham: DO, singleton, K3, K1, M1, K6, M3, M2, DP, DF1, DF3, DF2, CS4, CH, E, F, AH, AJ, Q, CX, L3, V, UNK, F1, F2, F4, F5, F6, T, EK2, BC3,

Info for manual annotations of cluster AH:
•Start number 20 was manually annotated 1 time for cluster AH.

Info for manual annotations of cluster AJ:
•Start number 61 was manually annotated 1 time for cluster AJ.

Info for manual annotations of cluster BC3:
•Start number 44 was manually annotated 3 times for cluster BC3.

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

Info for manual annotations of cluster CS4:
•Start number 66 was manually annotated 10 times for cluster CS4.

Info for manual annotations of cluster CX:
•Start number 21 was manually annotated 1 time for cluster CX.

Info for manual annotations of cluster DF3:
•Start number 51 was manually annotated 1 time for cluster DF3.

Info for manual annotations of cluster DO:
•Start number 24 was manually annotated 1 time for cluster DO.
•Start number 33 was manually annotated 3 times for cluster DO.

Info for manual annotations of cluster DP:
•Start number 46 was manually annotated 1 time for cluster DP.

Info for manual annotations of cluster E:
•Start number 50 was manually annotated 134 times for cluster E.

Info for manual annotations of cluster EK2:
•Start number 62 was manually annotated 9 times for cluster EK2.

Info for manual annotations of cluster F1:
•Start number 36 was manually annotated 164 times for cluster F1.
•Start number 64 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster F2:
•Start number 36 was manually annotated 6 times for cluster F2.

Info for manual annotations of cluster F4:
•Start number 36 was manually annotated 3 times for cluster F4.
•Start number 42 was manually annotated 1 time for cluster F4.

Info for manual annotations of cluster F5:
•Start number 36 was manually annotated 1 time for cluster F5.

Info for manual annotations of cluster K1:
•Start number 52 was manually annotated 3 times for cluster K1.

Info for manual annotations of cluster K3:
•Start number 45 was manually annotated 9 times for cluster K3.

Info for manual annotations of cluster K6:
•Start number 49 was manually annotated 6 times for cluster K6.

Info for manual annotations of cluster L3:
•Start number 34 was manually annotated 18 times for cluster L3.
•Start number 48 was manually annotated 14 times for cluster L3.
•Start number 55 was manually annotated 4 times for cluster L3.

Info for manual annotations of cluster M1:

•Start number 28 was manually annotated 15 times for cluster M1.

Info for manual annotations of cluster M2:
•Start number 28 was manually annotated 6 times for cluster M2.

Info for manual annotations of cluster M3:
•Start number 28 was manually annotated 1 time for cluster M3.

Info for manual annotations of cluster Q:
•Start number 24 was manually annotated 1 time for cluster Q.
•Start number 33 was manually annotated 21 times for cluster Q.
•Start number 39 was manually annotated 2 times for cluster Q.

Info for manual annotations of cluster T:
•Start number 45 was manually annotated 5 times for cluster T.

Info for manual annotations of cluster UNK:
•Start number 55 was manually annotated 1 time for cluster UNK.

Info for manual annotations of cluster V:
•Start number 29 was manually annotated 5 times for cluster V.

Gene Information:

Gene: 244_94 Start: 56440, Stop: 56700, Start Num: 50
Candidate Starts for 244_94:
(Start: 50 @56440 has 134 MA's), (63, 56461), (88, 56536), (107, 56605), (123, 56671),

Gene: ABCat_90 Start: 57128, Stop: 57388, Start Num: 50
Candidate Starts for ABCat_90:
(Start: 50 @57128 has 134 MA's), (63, 57149), (88, 57224), (107, 57293), (123, 57359),

Gene: ASerpRocky_40 Start: 44241, Stop: 44041, Start Num: 66
Candidate Starts for ASerpRocky_40:
(Start: 66 @44241 has 10 MA's),

Gene: Adnama_97 Start: 56736, Stop: 56996, Start Num: 50
Candidate Starts for Adnama_97:
(Start: 50 @56736 has 134 MA's), (63, 56757), (88, 56832), (107, 56901), (123, 56967),

Gene: Alexphander_63 Start: 40422, Stop: 40706, Start Num: 36
Candidate Starts for Alexphander_63:
(30, 40395), (Start: 36 @40422 has 174 MA's), (47, 40446), (54, 40461), (74, 40506), (78, 40518), (102, 40596), (105, 40608), (114, 40632), (118, 40644), (132, 40698),

Gene: AlpineSix_64 Start: 42541, Stop: 42819, Start Num: 36
Candidate Starts for AlpineSix_64:
(30, 42514), (Start: 36 @42541 has 174 MA's), (75, 42625), (79, 42634), (98, 42697), (102, 42712), (105, 42724), (114, 42748), (118, 42760), (132, 42811),

Gene: Amao_93 Start: 56248, Stop: 56508, Start Num: 50

Candidate Starts for Amao_93:
(Start: 50 @56248 has 134 MA's), (63, 56269), (88, 56344), (107, 56413), (123, 56479),

Gene: AmericanBeauty_97 Start: 57297, Stop: 57557, Start Num: 50
Candidate Starts for AmericanBeauty_97:
(Start: 50 @57297 has 134 MA's), (63, 57318), (88, 57393), (107, 57462), (123, 57528),

Gene: Amochick_76 Start: 49396, Stop: 49704, Start Num: 33
Candidate Starts for Amochick_76:
(31, 49390), (Start: 33 @49396 has 24 MA's), (Start: 39 @49423 has 2 MA's), (Start: 50 @49456 has 134 MA's), (89, 49558), (97, 49585), (139, 49696),

Gene: Amohnition_53 Start: 38560, Stop: 38814, Start Num: 49
Candidate Starts for Amohnition_53:
(8, 38242), (13, 38311), (16, 38407), (Start: 49 @38560 has 6 MA's), (78, 38626), (98, 38689), (108, 38734),

Gene: Amymech_75 Start: 48849, Stop: 49157, Start Num: 33
Candidate Starts for Amymech_75:
(31, 48843), (Start: 33 @48849 has 24 MA's), (Start: 39 @48876 has 2 MA's), (Start: 50 @48909 has 134 MA's), (89, 49011), (97, 49038), (139, 49149),

Gene: Argent26_97 Start: 56657, Stop: 56917, Start Num: 50
Candidate Starts for Argent26_97:
(Start: 50 @56657 has 134 MA's), (63, 56678), (88, 56753), (107, 56822), (123, 56888),

Gene: Asriel_91 Start: 55073, Stop: 55333, Start Num: 50
Candidate Starts for Asriel_91:
(Start: 50 @55073 has 134 MA's), (63, 55094), (88, 55169), (107, 55238), (123, 55304),

Gene: Astartes_7 Start: 5219, Stop: 4962, Start Num: 62
Candidate Starts for Astartes_7:
(37, 5279), (Start: 62 @5219 has 10 MA's), (98, 5105), (118, 5030), (129, 4985),

Gene: Atraxi_7 Start: 5184, Stop: 4927, Start Num: 62
Candidate Starts for Atraxi_7:
(37, 5244), (Start: 62 @5184 has 10 MA's), (86, 5112), (98, 5070), (118, 4995), (129, 4950),

Gene: Auspice_70 Start: 46137, Stop: 46481, Start Num: 28
Candidate Starts for Auspice_70:
(Start: 28 @46137 has 22 MA's), (41, 46188), (77, 46275), (112, 46392), (116, 46404), (120, 46425),

Gene: Austintatious_37 Start: 25254, Stop: 25553, Start Num: 44
Candidate Starts for Austintatious_37:
(10, 24966), (14, 25011), (23, 25185), (Start: 44 @25254 has 4 MA's), (105, 25416),

Gene: Avani_67 Start: 40740, Stop: 41018, Start Num: 36
Candidate Starts for Avani_67:
(30, 40713), (Start: 36 @40740 has 174 MA's), (75, 40824), (79, 40833), (98, 40896), (102, 40911), (105, 40923), (114, 40947), (118, 40959), (132, 41010),

Gene: Aziz_77 Start: 48177, Stop: 48524, Start Num: 28
Candidate Starts for Aziz_77:

(Start: 28 @48177 has 22 MA's), (Start: 64 @48273 has 1 MA's), (70, 48288), (77, 48315), (87, 48342), (93, 48357), (103, 48396), (104, 48402), (125, 48483), (127, 48489), (136, 48516),

Gene: Azrael100_80 Start: 51318, Stop: 51656, Start Num: 29
Candidate Starts for Azrael100_80:
(Start: 29 @51318 has 5 MA's), (73, 51432), (75, 51444), (81, 51453), (94, 51489), (121, 51606),

Gene: BaboJay_93 Start: 57319, Stop: 57579, Start Num: 50
Candidate Starts for BaboJay_93:
(Start: 50 @57319 has 134 MA's), (63, 57340), (88, 57415), (107, 57484), (123, 57550),

Gene: BadStone_90 Start: 56697, Stop: 56957, Start Num: 50
Candidate Starts for BadStone_90:
(Start: 50 @56697 has 134 MA's), (63, 56718), (88, 56793), (107, 56862), (123, 56928),

Gene: Balomoji_93 Start: 56855, Stop: 57115, Start Num: 50
Candidate Starts for Balomoji_93:
(17, 56717), (Start: 50 @56855 has 134 MA's), (63, 56876), (107, 57020), (123, 57086),

Gene: Barbarian_92 Start: 55073, Stop: 55333, Start Num: 50
Candidate Starts for Barbarian_92:
(Start: 50 @55073 has 134 MA's), (63, 55094), (88, 55169), (107, 55238), (123, 55304),

Gene: Bask21_93 Start: 55708, Stop: 55968, Start Num: 50
Candidate Starts for Bask21_93:
(17, 55570), (Start: 50 @55708 has 134 MA's), (63, 55729), (107, 55873), (123, 55939),

Gene: Beanstalk_57 Start: 38741, Stop: 39007, Start Num: 36
Candidate Starts for Beanstalk_57:
(30, 38714), (Start: 36 @38741 has 174 MA's), (47, 38765), (54, 38780), (74, 38825), (78, 38837), (102, 38915), (105, 38927), (114, 38951),

Gene: Becksu_92 Start: 57049, Stop: 57309, Start Num: 50
Candidate Starts for Becksu_92:
(Start: 50 @57049 has 134 MA's), (63, 57070), (88, 57145), (107, 57214), (123, 57280),

Gene: Bellis_80 Start: 54062, Stop: 54385, Start Num: 34
Candidate Starts for Bellis_80:
(Start: 34 @54062 has 18 MA's), (40, 54083), (113, 54311), (123, 54356),

Gene: Bellis_79 Start: 53796, Stop: 54065, Start Num: 48
Candidate Starts for Bellis_79:
(Start: 48 @53796 has 14 MA's), (Start: 55 @53811 has 5 MA's), (105, 53946), (114, 53988), (123, 54024), (131, 54048),

Gene: Bench_96 Start: 56792, Stop: 57052, Start Num: 50
Candidate Starts for Bench_96:
(Start: 50 @56792 has 134 MA's), (63, 56813), (88, 56888), (107, 56957), (123, 57023),

Gene: Benczkowski14_39 Start: 44274, Stop: 44074, Start Num: 66
Candidate Starts for Benczkowski14_39:
(Start: 66 @44274 has 10 MA's),

Gene: Bernal13_41 Start: 31446, Stop: 31703, Start Num: 45
Candidate Starts for Bernal13_41:
(11, 31170), (12, 31191), (Start: 45 @31446 has 14 MA's), (78, 31530), (105, 31620),

Gene: BigBubba_93 Start: 56089, Stop: 56349, Start Num: 50
Candidate Starts for BigBubba_93:
(Start: 50 @56089 has 134 MA's), (63, 56110), (88, 56185), (107, 56254), (123, 56320),

Gene: BilboSwaggins_91 Start: 57094, Stop: 57354, Start Num: 50
Candidate Starts for BilboSwaggins_91:
(Start: 50 @57094 has 134 MA's), (63, 57115), (88, 57190), (107, 57259), (123, 57325),

Gene: Blarby_71 Start: 41835, Stop: 42119, Start Num: 36
Candidate Starts for Blarby_71:
(30, 41808), (Start: 36 @41835 has 174 MA's), (47, 41859), (54, 41874), (74, 41919), (78, 41931), (102, 42009), (105, 42021), (114, 42045), (118, 42057), (132, 42111),

Gene: Blexus_57 Start: 40392, Stop: 40673, Start Num: 36
Candidate Starts for Blexus_57:
(30, 40365), (Start: 36 @40392 has 174 MA's), (47, 40416), (54, 40431), (74, 40476), (78, 40488), (102, 40566), (105, 40578), (114, 40602), (118, 40614), (132, 40665),

Gene: BloominB_74 Start: 48849, Stop: 49157, Start Num: 33
Candidate Starts for BloominB_74:
(31, 48843), (Start: 33 @48849 has 24 MA's), (Start: 39 @48876 has 2 MA's), (Start: 50 @48909 has 134 MA's), (89, 49011), (97, 49038), (139, 49149),

Gene: BlueCrab_59 Start: 40700, Stop: 40978, Start Num: 36
Candidate Starts for BlueCrab_59:
(30, 40673), (Start: 36 @40700 has 174 MA's), (47, 40724), (Start: 52 @40736 has 3 MA's), (74, 40781), (78, 40793), (105, 40883), (114, 40907), (118, 40919), (132, 40970),

Gene: BobaPhett_63 Start: 42651, Stop: 42935, Start Num: 36
Candidate Starts for BobaPhett_63:
(30, 42624), (Start: 36 @42651 has 174 MA's), (47, 42675), (54, 42690), (74, 42735), (78, 42747), (102, 42825), (105, 42837), (114, 42861), (118, 42873), (132, 42927),

Gene: BodEinwohner17_59 Start: 39462, Stop: 39740, Start Num: 36
Candidate Starts for BodEinwohner17_59:
(30, 39435), (Start: 36 @39462 has 174 MA's), (75, 39546), (79, 39555), (98, 39618), (102, 39633), (105, 39645), (114, 39669), (118, 39681), (132, 39732),

Gene: Bogg_93 Start: 56007, Stop: 56267, Start Num: 50
Candidate Starts for Bogg_93:
(Start: 50 @56007 has 134 MA's), (63, 56028), (88, 56103), (107, 56172), (123, 56238),

Gene: Bongo_70 Start: 46141, Stop: 46485, Start Num: 28
Candidate Starts for Bongo_70:
(Start: 28 @46141 has 22 MA's), (41, 46192), (77, 46279), (112, 46396), (116, 46408), (120, 46429),

Gene: Boomer_64 Start: 42326, Stop: 42610, Start Num: 36
Candidate Starts for Boomer_64:

(30, 42299), (Start: 36 @42326 has 174 MA's), (47, 42350), (54, 42365), (74, 42410), (78, 42422), (102, 42500), (105, 42512), (114, 42536), (118, 42548), (132, 42602),

Gene: BourbonZero_80 Start: 53807, Stop: 54094, Start Num: 55
Candidate Starts for BourbonZero_80:
(Start: 48 @53792 has 14 MA's), (Start: 55 @53807 has 5 MA's), (105, 53945),

Gene: BourbonZero_81 Start: 54091, Stop: 54414, Start Num: 34
Candidate Starts for BourbonZero_81:
(Start: 34 @54091 has 18 MA's), (Start: 48 @54136 has 14 MA's), (53, 54148), (105, 54304), (110, 54331), (115, 54349), (118, 54361), (123, 54385),

Gene: Brewer_89 Start: 55594, Stop: 55854, Start Num: 50
Candidate Starts for Brewer_89:
(Start: 50 @55594 has 134 MA's), (63, 55615), (88, 55690), (107, 55759), (123, 55825),

Gene: Bricole_69 Start: 45863, Stop: 46207, Start Num: 28
Candidate Starts for Bricole_69:
(Start: 28 @45863 has 22 MA's), (41, 45914), (77, 46001), (112, 46118), (116, 46130), (120, 46151),

Gene: Brocalys_54 Start: 36836, Stop: 37117, Start Num: 36
Candidate Starts for Brocalys_54:
(30, 36809), (Start: 36 @36836 has 174 MA's), (47, 36860), (54, 36875), (74, 36920), (78, 36932), (102, 37010), (105, 37022), (114, 37046), (118, 37058), (132, 37109),

Gene: Bruin_90 Start: 55671, Stop: 55931, Start Num: 50
Candidate Starts for Bruin_90:
(Start: 50 @55671 has 134 MA's), (63, 55692), (88, 55767), (107, 55836), (123, 55902),

Gene: Buck_94 Start: 57360, Stop: 57620, Start Num: 50
Candidate Starts for Buck_94:
(17, 57222), (Start: 50 @57360 has 134 MA's), (63, 57381), (107, 57525), (123, 57591),

Gene: Budgie_99 Start: 56700, Stop: 56954, Start Num: 50
Candidate Starts for Budgie_99:
(38, 56661), (Start: 50 @56700 has 134 MA's), (65, 56721), (76, 56760), (95, 56808), (98, 56826), (123, 56925),

Gene: BugsBunny_93 Start: 57200, Stop: 57460, Start Num: 50
Candidate Starts for BugsBunny_93:
(Start: 50 @57200 has 134 MA's), (63, 57221), (88, 57296), (107, 57365), (123, 57431),

Gene: Burwell21_57 Start: 39934, Stop: 40218, Start Num: 36
Candidate Starts for Burwell21_57:
(30, 39907), (Start: 36 @39934 has 174 MA's), (47, 39958), (54, 39973), (74, 40018), (78, 40030), (102, 40108), (105, 40120), (114, 40144), (118, 40156), (132, 40210),

Gene: BuzzLyseyear_65 Start: 41358, Stop: 41639, Start Num: 36
Candidate Starts for BuzzLyseyear_65:
(30, 41331), (Start: 36 @41358 has 174 MA's), (47, 41382), (54, 41397), (74, 41442), (78, 41454), (102, 41532), (105, 41544), (114, 41568), (118, 41580), (132, 41631),

Gene: ByChance_51 Start: 35625, Stop: 35906, Start Num: 36

Candidate Starts for ByChance_51:
(30, 35598), (Start: 36 @35625 has 174 MA's), (47, 35649), (Start: 52 @35661 has 3 MA's), (74, 35706), (78, 35718), (102, 35796), (105, 35808), (114, 35832), (118, 35844), (132, 35898),

Gene: Byougenkin_57 Start: 39701, Stop: 39982, Start Num: 36
Candidate Starts for Byougenkin_57:
(30, 39674), (Start: 36 @39701 has 174 MA's), (47, 39725), (54, 39740), (74, 39785), (78, 39797), (102, 39875), (105, 39887), (114, 39911), (118, 39923), (132, 39974),

Gene: Cabrinians_60 Start: 40012, Stop: 40296, Start Num: 36
Candidate Starts for Cabrinians_60:
(30, 39985), (Start: 36 @40012 has 174 MA's), (47, 40036), (54, 40051), (74, 40096), (78, 40108), (102, 40186), (105, 40198), (114, 40222), (118, 40234), (132, 40288),

Gene: Cactus_96 Start: 55737, Stop: 55997, Start Num: 50
Candidate Starts for Cactus_96:
(Start: 50 @55737 has 134 MA's), (63, 55758), (88, 55833), (107, 55902), (123, 55968),

Gene: CaptainTrips_56 Start: 39508, Stop: 39792, Start Num: 36
Candidate Starts for CaptainTrips_56:
(Start: 36 @39508 has 174 MA's), (47, 39532), (54, 39547), (74, 39592), (78, 39604), (102, 39682), (105, 39694), (114, 39718), (118, 39730), (132, 39784),

Gene: Chavito_54 Start: 38944, Stop: 39207, Start Num: 49
Candidate Starts for Chavito_54:
(5, 38536), (8, 38620), (13, 38689), (Start: 49 @38944 has 6 MA's), (88, 39046), (95, 39064), (98, 39082), (114, 39136), (123, 39172), (130, 39196),

Gene: Cheesepuff_66 Start: 41977, Stop: 42255, Start Num: 36
Candidate Starts for Cheesepuff_66:
(26, 41941), (Start: 36 @41977 has 174 MA's), (47, 42001), (74, 42058), (78, 42070), (102, 42148), (105, 42160), (114, 42184), (118, 42196), (132, 42247),

Gene: CherryTomatoes_55 Start: 18497, Stop: 18778, Start Num: 33
Candidate Starts for CherryTomatoes_55:
(Start: 33 @18497 has 24 MA's), (43, 18533), (78, 18608),

Gene: ChosenOne_93 Start: 56152, Stop: 56412, Start Num: 50
Candidate Starts for ChosenOne_93:
(Start: 50 @56152 has 134 MA's), (63, 56173), (88, 56248), (107, 56317), (123, 56383),

Gene: ChotaBhai_93 Start: 56073, Stop: 56333, Start Num: 50
Candidate Starts for ChotaBhai_93:
(17, 55935), (Start: 50 @56073 has 134 MA's), (63, 56094), (107, 56238), (123, 56304),

Gene: Chris_53 Start: 38292, Stop: 38561, Start Num: 52
Candidate Starts for Chris_53:
(Start: 52 @38292 has 3 MA's), (108, 38466), (134, 38547), (135, 38550),

Gene: Chuckly_62 Start: 40654, Stop: 40938, Start Num: 36
Candidate Starts for Chuckly_62:
(30, 40627), (Start: 36 @40654 has 174 MA's), (47, 40678), (54, 40693), (74, 40738), (78, 40750), (102, 40828), (105, 40840), (114, 40864), (118, 40876), (132, 40930),

Gene: Cjw1_94 Start: 58116, Stop: 58376, Start Num: 50
Candidate Starts for Cjw1_94:
(Start: 50 @58116 has 134 MA's), (63, 58137), (88, 58212), (107, 58281), (123, 58347),

Gene: Clank_64 Start: 40984, Stop: 41262, Start Num: 36
Candidate Starts for Clank_64:
(30, 40957), (Start: 36 @40984 has 174 MA's), (75, 41068), (79, 41077), (98, 41140), (102, 41155), (105, 41167), (114, 41191), (118, 41203), (132, 41254),

Gene: Clautastrophe_77 Start: 53794, Stop: 54063, Start Num: 48
Candidate Starts for Clautastrophe_77:
(Start: 48 @53794 has 14 MA's), (Start: 55 @53809 has 5 MA's), (105, 53944), (114, 53986), (123, 54022), (131, 54046),

Gene: Clautastrophe_78 Start: 54060, Stop: 54383, Start Num: 34
Candidate Starts for Clautastrophe_78:
(Start: 34 @54060 has 18 MA's), (40, 54081), (105, 54273), (113, 54309), (123, 54354),

Gene: Clifton_54 Start: 37187, Stop: 37468, Start Num: 36
Candidate Starts for Clifton_54:
(30, 37160), (Start: 36 @37187 has 174 MA's), (47, 37211), (54, 37226), (74, 37271), (78, 37283), (102, 37361), (105, 37373), (114, 37397), (118, 37409), (132, 37460),

Gene: Command613_95 Start: 57191, Stop: 57451, Start Num: 50
Candidate Starts for Command613_95:
(Start: 50 @57191 has 134 MA's), (63, 57212), (88, 57287), (107, 57356), (123, 57422),

Gene: Contagion_89 Start: 55952, Stop: 56212, Start Num: 50
Candidate Starts for Contagion_89:
(Start: 50 @55952 has 134 MA's), (63, 55973), (88, 56048), (107, 56117), (123, 56183),

Gene: Cookies_90 Start: 55930, Stop: 56190, Start Num: 50
Candidate Starts for Cookies_90:
(17, 55792), (Start: 50 @55930 has 134 MA's), (63, 55951), (107, 56095), (123, 56161),

Gene: Corium_56 Start: 39051, Stop: 39335, Start Num: 36
Candidate Starts for Corium_56:
(30, 39024), (Start: 36 @39051 has 174 MA's), (47, 39075), (54, 39090), (74, 39135), (102, 39225), (105, 39237), (114, 39261), (118, 39273), (132, 39327),

Gene: Cornie_55 Start: 38439, Stop: 38717, Start Num: 36
Candidate Starts for Cornie_55:
(26, 38403), (Start: 36 @38439 has 174 MA's), (47, 38463), (74, 38520), (78, 38532), (102, 38610), (105, 38622), (114, 38646), (118, 38658), (132, 38709),

Gene: Cornucopia_61 Start: 40668, Stop: 40946, Start Num: 36
Candidate Starts for Cornucopia_61:
(30, 40641), (Start: 36 @40668 has 174 MA's), (75, 40752), (79, 40761), (98, 40824), (102, 40839), (105, 40851), (114, 40875), (118, 40887), (132, 40938),

Gene: Cosmo_81 Start: 51319, Stop: 51657, Start Num: 29
Candidate Starts for Cosmo_81:

(Start: 29 @51319 has 5 MA's), (73, 51433), (75, 51445), (81, 51454), (94, 51490), (121, 51607),

Gene: Crumble_54 Start: 35948, Stop: 36232, Start Num: 36
Candidate Starts for Crumble_54:
(30, 35921), (Start: 36 @35948 has 174 MA's), (47, 35972), (54, 35987), (74, 36032), (78, 36044), (102, 36122), (105, 36134), (114, 36158), (118, 36170), (132, 36224),

Gene: CrystalP_92 Start: 57094, Stop: 57354, Start Num: 50
Candidate Starts for CrystalP_92:
(Start: 50 @57094 has 134 MA's), (63, 57115), (88, 57190), (107, 57259), (123, 57325),

Gene: Czyszczon1_94 Start: 56655, Stop: 56915, Start Num: 50
Candidate Starts for Czyszczon1_94:
(Start: 50 @56655 has 134 MA's), (63, 56676), (88, 56751), (107, 56820), (123, 56886),

Gene: DRBy19_62 Start: 41112, Stop: 41393, Start Num: 36
Candidate Starts for DRBy19_62:
(30, 41085), (Start: 36 @41112 has 174 MA's), (75, 41196), (79, 41205), (98, 41268), (102, 41283), (105, 41295), (114, 41319), (118, 41331), (132, 41385),

Gene: DaWorst_60 Start: 40413, Stop: 40697, Start Num: 36
Candidate Starts for DaWorst_60:
(30, 40386), (Start: 36 @40413 has 174 MA's), (47, 40437), (54, 40452), (74, 40497), (102, 40587), (105, 40599), (114, 40623), (118, 40635), (132, 40689),

Gene: DaddyRickover_58 Start: 40151, Stop: 40435, Start Num: 36
Candidate Starts for DaddyRickover_58:
(30, 40124), (Start: 36 @40151 has 174 MA's), (47, 40175), (54, 40190), (74, 40235), (78, 40247), (102, 40325), (105, 40337), (114, 40361), (118, 40373), (132, 40427),

Gene: Daegal_77 Start: 49955, Stop: 50263, Start Num: 33
Candidate Starts for Daegal_77:
(Start: 24 @49937 has 2 MA's), (31, 49949), (Start: 33 @49955 has 24 MA's), (Start: 39 @49982 has 2 MA's), (Start: 50 @50015 has 134 MA's), (89, 50117), (97, 50144), (139, 50255),

Gene: Daenerys_53 Start: 38267, Stop: 38545, Start Num: 36
Candidate Starts for Daenerys_53:
(30, 38240), (Start: 36 @38267 has 174 MA's), (75, 38351), (79, 38360), (98, 38423), (102, 38438), (105, 38450), (114, 38474), (118, 38486), (132, 38537),

Gene: Daikon_94 Start: 56682, Stop: 56942, Start Num: 50
Candidate Starts for Daikon_94:
(17, 56544), (Start: 50 @56682 has 134 MA's), (63, 56703), (107, 56847), (123, 56913),

Gene: Dante_60 Start: 39936, Stop: 40220, Start Num: 36
Candidate Starts for Dante_60:
(30, 39909), (Start: 36 @39936 has 174 MA's), (47, 39960), (54, 39975), (74, 40020), (78, 40032), (102, 40110), (105, 40122), (114, 40146), (118, 40158), (132, 40212),

Gene: DarthP_53 Start: 38444, Stop: 38698, Start Num: 49
Candidate Starts for DarthP_53:
(8, 38126), (13, 38195), (16, 38291), (Start: 49 @38444 has 6 MA's), (78, 38510), (98, 38573), (108, 38618),

Gene: DeadP_65 Start: 42582, Stop: 42848, Start Num: 36
Candidate Starts for DeadP_65:
(Start: 36 @42582 has 174 MA's), (47, 42606), (54, 42621), (74, 42666), (78, 42678), (102, 42756), (105, 42768), (114, 42792),

Gene: DeepSoil15_75 Start: 48849, Stop: 49157, Start Num: 33
Candidate Starts for DeepSoil15_75:
(31, 48843), (Start: 33 @48849 has 24 MA's), (Start: 39 @48876 has 2 MA's), (Start: 50 @48909 has 134 MA's), (89, 49011), (97, 49038), (139, 49149),

Gene: Demosthenes_39 Start: 44214, Stop: 44014, Start Num: 66
Candidate Starts for Demosthenes_39:
(Start: 66 @44214 has 10 MA's),

Gene: Demsculpinboyz_70 Start: 39936, Stop: 40217, Start Num: 36
Candidate Starts for Demsculpinboyz_70:
(26, 39900), (Start: 36 @39936 has 174 MA's), (Start: 42 @39951 has 1 MA's), (54, 39975), (74, 40020), (78, 40032), (114, 40146), (118, 40158), (132, 40209),

Gene: Dewey_68 Start: 48849, Stop: 49157, Start Num: 33
Candidate Starts for Dewey_68:
(31, 48843), (Start: 33 @48849 has 24 MA's), (Start: 39 @48876 has 2 MA's), (Start: 50 @48909 has 134 MA's), (89, 49011), (97, 49038), (139, 49149),

Gene: DillTech15_56 Start: 38601, Stop: 38879, Start Num: 36
Candidate Starts for DillTech15_56:
(30, 38574), (Start: 36 @38601 has 174 MA's), (75, 38685), (79, 38694), (98, 38757), (102, 38772), (105, 38784), (114, 38808), (118, 38820), (132, 38871),

Gene: Diminimus_71 Start: 46136, Stop: 46480, Start Num: 28
Candidate Starts for Diminimus_71:
(Start: 28 @46136 has 22 MA's), (41, 46187), (77, 46274), (112, 46391), (116, 46403), (120, 46424),

Gene: DirtMcgirt_58 Start: 38676, Stop: 38960, Start Num: 36
Candidate Starts for DirtMcgirt_58:
(30, 38649), (Start: 36 @38676 has 174 MA's), (47, 38700), (54, 38715), (74, 38760), (78, 38772), (102, 38850), (105, 38862), (114, 38886), (118, 38898), (132, 38952),

Gene: DocB7_034 Start: 36428, Stop: 36228, Start Num: 83
Candidate Starts for DocB7_034:
(83, 36428), (108, 36332), (111, 36320), (119, 36287),

Gene: DoctorDiddles_92 Start: 56117, Stop: 56377, Start Num: 50
Candidate Starts for DoctorDiddles_92:
(17, 55979), (Start: 50 @56117 has 134 MA's), (63, 56138), (107, 56282), (123, 56348),

Gene: Doomphist_59 Start: 41112, Stop: 41390, Start Num: 36
Candidate Starts for Doomphist_59:
(30, 41085), (Start: 36 @41112 has 174 MA's), (75, 41196), (79, 41205), (98, 41268), (102, 41283), (105, 41295), (114, 41319), (118, 41331), (132, 41382),

Gene: Doomslug_68 Start: 40532, Stop: 40810, Start Num: 36

Candidate Starts for Doomslug_68:
(30, 40505), (Start: 36 @40532 has 174 MA's), (75, 40616), (79, 40625), (98, 40688), (102, 40703), (105, 40715), (114, 40739), (118, 40751), (132, 40802),

Gene: Dorothy_57 Start: 39331, Stop: 39609, Start Num: 36
Candidate Starts for Dorothy_57:
(30, 39304), (Start: 36 @39331 has 174 MA's), (75, 39415), (79, 39424), (98, 39487), (102, 39502), (105, 39514), (114, 39538), (118, 39550), (132, 39601),

Gene: DosHalletts_61 Start: 41467, Stop: 41745, Start Num: 36
Candidate Starts for DosHalletts_61:
(30, 41440), (Start: 36 @41467 has 174 MA's), (75, 41551), (79, 41560), (98, 41623), (102, 41638), (105, 41650), (114, 41674), (118, 41686), (132, 41737),

Gene: Doug_61 Start: 40679, Stop: 40963, Start Num: 36
Candidate Starts for Doug_61:
(30, 40652), (Start: 36 @40679 has 174 MA's), (47, 40703), (54, 40718), (74, 40763), (78, 40775), (102, 40853), (105, 40865), (114, 40889), (118, 40901), (132, 40955),

Gene: DrDrey_93 Start: 57574, Stop: 57834, Start Num: 50
Candidate Starts for DrDrey_93:
(Start: 50 @57574 has 134 MA's), (63, 57595), (88, 57670), (107, 57739), (123, 57805),

Gene: Drago_57 Start: 38679, Stop: 38963, Start Num: 36
Candidate Starts for Drago_57:
(30, 38652), (Start: 36 @38679 has 174 MA's), (47, 38703), (54, 38718), (74, 38763), (78, 38775), (102, 38853), (105, 38865), (114, 38889), (118, 38901), (132, 38955),

Gene: Dulcita_71 Start: 46137, Stop: 46481, Start Num: 28
Candidate Starts for Dulcita_71:
(Start: 28 @46137 has 22 MA's), (41, 46188), (77, 46275), (112, 46392), (116, 46404), (120, 46425),

Gene: Dumbo_93 Start: 56054, Stop: 56314, Start Num: 50
Candidate Starts for Dumbo_93:
(Start: 50 @56054 has 134 MA's), (63, 56075), (88, 56150), (107, 56219), (123, 56285),

Gene: DuncansLeg_79 Start: 53780, Stop: 54082, Start Num: 48
Candidate Starts for DuncansLeg_79:
(Start: 48 @53780 has 14 MA's), (Start: 55 @53795 has 5 MA's), (105, 53933),

Gene: DuncansLeg_80 Start: 54079, Stop: 54402, Start Num: 34
Candidate Starts for DuncansLeg_80:
(Start: 34 @54079 has 18 MA's), (Start: 48 @54124 has 14 MA's), (53, 54136), (105, 54292), (110, 54319), (115, 54337), (118, 54349), (123, 54373),

Gene: Dusk_90 Start: 56357, Stop: 56617, Start Num: 50
Candidate Starts for Dusk_90:
(Start: 50 @56357 has 134 MA's), (63, 56378), (88, 56453), (107, 56522), (123, 56588),

Gene: Easy2Say_94 Start: 57556, Stop: 57816, Start Num: 50
Candidate Starts for Easy2Say_94:
(Start: 50 @57556 has 134 MA's), (63, 57577), (88, 57652), (107, 57721), (123, 57787),

Gene: Ein37_75 Start: 48849, Stop: 49157, Start Num: 33
Candidate Starts for Ein37_75:
(31, 48843), (Start: 33 @48849 has 24 MA's), (Start: 39 @48876 has 2 MA's), (Start: 50 @48909 has 134 MA's), (89, 49011), (97, 49038), (139, 49149),

Gene: Eish_63 Start: 40928, Stop: 41212, Start Num: 36
Candidate Starts for Eish_63:
(30, 40901), (Start: 36 @40928 has 174 MA's), (47, 40952), (54, 40967), (74, 41012), (102, 41102), (105, 41114), (114, 41138), (118, 41150), (132, 41204),

Gene: EleanorGeorge_60 Start: 40795, Stop: 41076, Start Num: 36
Candidate Starts for EleanorGeorge_60:
(30, 40768), (Start: 36 @40795 has 174 MA's), (47, 40819), (54, 40834), (74, 40879), (78, 40891), (102, 40969), (105, 40981), (114, 41005), (118, 41017), (132, 41068),

Gene: Elite2014_92 Start: 56151, Stop: 56411, Start Num: 50
Candidate Starts for Elite2014_92:
(Start: 50 @56151 has 134 MA's), (63, 56172), (88, 56247), (107, 56316), (123, 56382),

Gene: Ellson_79 Start: 54394, Stop: 54717, Start Num: 34
Candidate Starts for Ellson_79:
(Start: 34 @54394 has 18 MA's), (Start: 48 @54439 has 14 MA's), (53, 54451), (105, 54607), (110, 54634), (115, 54652), (118, 54664), (123, 54688),

Gene: Ellson_78 Start: 54110, Stop: 54397, Start Num: 55
Candidate Starts for Ellson_78:
(Start: 48 @54095 has 14 MA's), (Start: 55 @54110 has 5 MA's), (105, 54248),

Gene: Elph10_94 Start: 56144, Stop: 56404, Start Num: 50
Candidate Starts for Elph10_94:
(Start: 50 @56144 has 134 MA's), (63, 56165), (88, 56240), (107, 56309), (123, 56375),

Gene: EmiMonkey_57 Start: 41642, Stop: 41926, Start Num: 36
Candidate Starts for EmiMonkey_57:
(30, 41615), (Start: 36 @41642 has 174 MA's), (47, 41666), (54, 41681), (74, 41726), (102, 41816), (105, 41828), (114, 41852), (118, 41864), (132, 41918),

Gene: Emmaloid_60 Start: 40738, Stop: 41022, Start Num: 36
Candidate Starts for Emmaloid_60:
(30, 40711), (Start: 36 @40738 has 174 MA's), (47, 40762), (54, 40777), (74, 40822), (78, 40834), (102, 40912), (105, 40924), (114, 40948), (118, 40960), (132, 41014),

Gene: Emmina_93 Start: 55777, Stop: 56037, Start Num: 50
Candidate Starts for Emmina_93:
(Start: 50 @55777 has 134 MA's), (63, 55798), (88, 55873), (107, 55942), (123, 56008),

Gene: Empress_57 Start: 39681, Stop: 39959, Start Num: 36
Candidate Starts for Empress_57:
(30, 39654), (Start: 36 @39681 has 174 MA's), (75, 39765), (79, 39774), (98, 39837), (102, 39852), (105, 39864), (114, 39888), (118, 39900), (132, 39951),

Gene: Enby_60 Start: 38955, Stop: 39239, Start Num: 36
Candidate Starts for Enby_60:

(Start: 36 @38955 has 174 MA's), (47, 38979), (54, 38994), (74, 39039), (78, 39051), (102, 39129), (105, 39141), (114, 39165), (118, 39177), (132, 39231),

Gene: EniyanLRS_77 Start: 51058, Stop: 51396, Start Num: 29
Candidate Starts for EniyanLRS_77:
(Start: 29 @51058 has 5 MA's), (73, 51172), (75, 51184), (81, 51193), (94, 51229), (121, 51346),

Gene: Enzomatic_65 Start: 39785, Stop: 40063, Start Num: 36
Candidate Starts for Enzomatic_65:
(30, 39758), (Start: 36 @39785 has 174 MA's), (75, 39869), (79, 39878), (98, 39941), (102, 39956), (105, 39968), (114, 39992), (118, 40004), (132, 40055),

Gene: Eradicator_52 Start: 38208, Stop: 38489, Start Num: 36
Candidate Starts for Eradicator_52:
(30, 38181), (Start: 36 @38208 has 174 MA's), (47, 38232), (54, 38247), (74, 38292), (78, 38304), (102, 38382), (105, 38394), (114, 38418), (118, 38430), (132, 38481),

Gene: Estave1_62 Start: 41132, Stop: 41410, Start Num: 36
Candidate Starts for Estave1_62:
(30, 41105), (Start: 36 @41132 has 174 MA's), (75, 41216), (79, 41225), (98, 41288), (102, 41303), (105, 41315), (114, 41339), (118, 41351), (132, 41402),

Gene: Estes_79 Start: 48524, Stop: 48871, Start Num: 28
Candidate Starts for Estes_79:
(Start: 28 @48524 has 22 MA's), (Start: 64 @48620 has 1 MA's), (70, 48635), (87, 48689), (93, 48704), (103, 48743), (104, 48749), (125, 48830), (127, 48836), (136, 48863),

Gene: Eureka_92 Start: 57064, Stop: 57324, Start Num: 50
Candidate Starts for Eureka_92:
(Start: 50 @57064 has 134 MA's), (63, 57085), (88, 57160), (107, 57229), (123, 57295),

Gene: Evanesce_74 Start: 48849, Stop: 49157, Start Num: 33
Candidate Starts for Evanesce_74:
(31, 48843), (Start: 33 @48849 has 24 MA's), (Start: 39 @48876 has 2 MA's), (Start: 50 @48909 has 134 MA's), (89, 49011), (97, 49038), (139, 49149),

Gene: FairyPath_94 Start: 57270, Stop: 57530, Start Num: 50
Candidate Starts for FairyPath_94:
(Start: 50 @57270 has 134 MA's), (63, 57291), (88, 57366), (107, 57435), (123, 57501),

Gene: Fancypants_61 Start: 40646, Stop: 40930, Start Num: 36
Candidate Starts for Fancypants_61:
(30, 40619), (Start: 36 @40646 has 174 MA's), (47, 40670), (54, 40685), (74, 40730), (78, 40742), (102, 40820), (105, 40832), (114, 40856), (118, 40868), (132, 40922),

Gene: Fastidio_59 Start: 38748, Stop: 39026, Start Num: 36
Candidate Starts for Fastidio_59:
(30, 38721), (Start: 36 @38748 has 174 MA's), (75, 38832), (79, 38841), (98, 38904), (102, 38919), (105, 38931), (114, 38955), (118, 38967), (132, 39018),

Gene: Filch_95 Start: 56349, Stop: 56609, Start Num: 50
Candidate Starts for Filch_95:
(Start: 50 @56349 has 134 MA's), (63, 56370), (88, 56445), (107, 56514), (123, 56580),

Gene: Finnry_80 Start: 54311, Stop: 54634, Start Num: 34
Candidate Starts for Finnry_80:
(Start: 34 @54311 has 18 MA's), (40, 54332), (98, 54497), (113, 54560), (123, 54605),

Gene: Finnry_79 Start: 54045, Stop: 54314, Start Num: 48
Candidate Starts for Finnry_79:
(Start: 48 @54045 has 14 MA's), (Start: 55 @54060 has 5 MA's), (105, 54195), (114, 54237), (123, 54273), (131, 54297),

Gene: FireRed_97 Start: 57367, Stop: 57627, Start Num: 50
Candidate Starts for FireRed_97:
(Start: 50 @57367 has 134 MA's), (63, 57388), (88, 57463), (107, 57532), (123, 57598),

Gene: Firehouse51_60 Start: 43530, Stop: 43814, Start Num: 36
Candidate Starts for Firehouse51_60:
(30, 43503), (Start: 36 @43530 has 174 MA's), (47, 43554), (54, 43569), (74, 43614), (78, 43626), (102, 43704), (105, 43716), (114, 43740), (118, 43752), (132, 43806),

Gene: Flypotenuse_89 Start: 55727, Stop: 55987, Start Num: 50
Candidate Starts for Flypotenuse_89:
(Start: 50 @55727 has 134 MA's), (63, 55748), (88, 55823), (107, 55892), (123, 55958),

Gene: FoghornLeghorn_87 Start: 54752, Stop: 55012, Start Num: 50
Candidate Starts for FoghornLeghorn_87:
(17, 54614), (Start: 50 @54752 has 134 MA's), (63, 54773), (107, 54917), (123, 54983),

Gene: Footloose_55 Start: 31826, Stop: 32083, Start Num: 44
Candidate Starts for Footloose_55:
(Start: 44 @31826 has 4 MA's), (Start: 50 @31838 has 134 MA's),

Gene: Forge_68 Start: 48876, Stop: 49157, Start Num: 39
Candidate Starts for Forge_68:
(31, 48843), (Start: 33 @48849 has 24 MA's), (Start: 39 @48876 has 2 MA's), (Start: 50 @48909 has 134 MA's), (89, 49011), (97, 49038), (139, 49149),

Gene: FreakyGoo_72 Start: 46616, Stop: 46960, Start Num: 28
Candidate Starts for FreakyGoo_72:
(Start: 28 @46616 has 22 MA's), (41, 46667), (77, 46754), (112, 46871), (116, 46883), (120, 46904),

Gene: FreddyB_60 Start: 38860, Stop: 39141, Start Num: 36
Candidate Starts for FreddyB_60:
(30, 38833), (Start: 36 @38860 has 174 MA's), (47, 38884), (54, 38899), (74, 38944), (78, 38956), (102, 39034), (105, 39046), (114, 39070), (118, 39082), (132, 39133),

Gene: Fullmetal_7 Start: 5216, Stop: 4959, Start Num: 62
Candidate Starts for Fullmetal_7:
(37, 5276), (Start: 62 @5216 has 10 MA's), (98, 5102), (118, 5027), (129, 4982),

Gene: GMA3_48 Start: 45185, Stop: 44973, Start Num: 51
Candidate Starts for GMA3_48:
(Start: 51 @45185 has 1 MA's),

Gene: GUmbie_57 Start: 39435, Stop: 39716, Start Num: 36
Candidate Starts for GUmbie_57:
(30, 39408), (Start: 36 @39435 has 174 MA's), (47, 39459), (54, 39474), (74, 39519), (78, 39531), (102, 39609), (105, 39621), (114, 39645), (118, 39657), (132, 39708),

Gene: Gage_95 Start: 56798, Stop: 57058, Start Num: 50
Candidate Starts for Gage_95:
(Start: 50 @56798 has 134 MA's), (63, 56819), (88, 56894), (107, 56963), (123, 57029),

Gene: Galactic_58 Start: 39901, Stop: 40179, Start Num: 36
Candidate Starts for Galactic_58:
(30, 39874), (Start: 36 @39901 has 174 MA's), (75, 39985), (79, 39994), (98, 40057), (102, 40072), (105, 40084), (114, 40108), (118, 40120), (132, 40171),

Gene: Gancho_74 Start: 48624, Stop: 48932, Start Num: 33
Candidate Starts for Gancho_74:
(31, 48618), (Start: 33 @48624 has 24 MA's), (Start: 39 @48651 has 2 MA's), (Start: 50 @48684 has 134 MA's), (89, 48786), (139, 48924),

Gene: Gandalph_62 Start: 40257, Stop: 40538, Start Num: 36
Candidate Starts for Gandalph_62:
(30, 40230), (Start: 36 @40257 has 174 MA's), (47, 40281), (54, 40296), (74, 40341), (78, 40353), (102, 40431), (105, 40443), (114, 40467), (118, 40479), (132, 40530),

Gene: GardenSalsa_79 Start: 48728, Stop: 49075, Start Num: 28
Candidate Starts for GardenSalsa_79:
(Start: 28 @48728 has 22 MA's), (Start: 64 @48824 has 1 MA's), (70, 48839), (87, 48893), (93, 48908), (103, 48947), (104, 48953), (125, 49034), (127, 49040), (136, 49067),

Gene: Gator_91 Start: 56582, Stop: 56842, Start Num: 50
Candidate Starts for Gator_91:
(17, 56444), (Start: 50 @56582 has 134 MA's), (63, 56603), (107, 56747), (123, 56813),

Gene: Gemini_98 Start: 57174, Stop: 57434, Start Num: 50
Candidate Starts for Gemini_98:
(Start: 50 @57174 has 134 MA's), (63, 57195), (88, 57270), (107, 57339), (123, 57405),

Gene: GenevaB15_78 Start: 48177, Stop: 48524, Start Num: 28
Candidate Starts for GenevaB15_78:
(Start: 28 @48177 has 22 MA's), (Start: 64 @48273 has 1 MA's), (70, 48288), (77, 48315), (87, 48342), (93, 48357), (103, 48396), (104, 48402), (125, 48483), (127, 48489), (136, 48516),

Gene: GigiOuiOui_55 Start: 38875, Stop: 39156, Start Num: 36
Candidate Starts for GigiOuiOui_55:
(30, 38848), (Start: 36 @38875 has 174 MA's), (47, 38899), (54, 38914), (74, 38959), (78, 38971), (98, 39034), (102, 39049), (105, 39061), (114, 39085), (118, 39097), (132, 39148),

Gene: Giles_68 Start: 48849, Stop: 49157, Start Num: 33
Candidate Starts for Giles_68:
(31, 48843), (Start: 33 @48849 has 24 MA's), (Start: 39 @48876 has 2 MA's), (Start: 50 @48909 has 134 MA's), (89, 49011), (97, 49038), (139, 49149),

Gene: Girr_57 Start: 39742, Stop: 40020, Start Num: 36

Candidate Starts for Girr_57:
(30, 39715), (Start: 36 @39742 has 174 MA's), (75, 39826), (79, 39835), (98, 39898), (102, 39913), (105, 39925), (114, 39949), (118, 39961), (132, 40012),

Gene: Glaske16_72 Start: 46615, Stop: 46959, Start Num: 28
Candidate Starts for Glaske16_72:
(Start: 28 @46615 has 22 MA's), (41, 46666), (77, 46753), (112, 46870), (116, 46882), (120, 46903),

Gene: Glexan_92 Start: 56857, Stop: 57117, Start Num: 50
Candidate Starts for Glexan_92:
(Start: 50 @56857 has 134 MA's), (63, 56878), (88, 56953), (107, 57022), (123, 57088),

Gene: Gmala1_46 Start: 43387, Stop: 43169, Start Num: 51
Candidate Starts for Gmala1_46:
(Start: 51 @43387 has 1 MA's), (69, 43348), (80, 43318), (90, 43288),

Gene: Goku_92 Start: 56793, Stop: 57053, Start Num: 50
Candidate Starts for Goku_92:
(Start: 50 @56793 has 134 MA's), (63, 56814), (88, 56889), (107, 56958), (123, 57024),

Gene: GoldenSpark_97 Start: 56657, Stop: 56917, Start Num: 50
Candidate Starts for GoldenSpark_97:
(Start: 50 @56657 has 134 MA's), (63, 56678), (88, 56753), (107, 56822), (123, 56888),

Gene: Goldilocks_96 Start: 56015, Stop: 56275, Start Num: 50
Candidate Starts for Goldilocks_96:
(Start: 50 @56015 has 134 MA's), (63, 56036), (88, 56111), (107, 56180), (123, 56246),

Gene: GooberAzure_96 Start: 56657, Stop: 56917, Start Num: 50
Candidate Starts for GooberAzure_96:
(Start: 50 @56657 has 134 MA's), (63, 56678), (88, 56753), (107, 56822), (123, 56888),

Gene: GordDuk1_47 Start: 43538, Stop: 43320, Start Num: 51
Candidate Starts for GordDuk1_47:
(Start: 51 @43538 has 1 MA's), (69, 43499), (80, 43469), (90, 43439),

Gene: GordTnk2_48 Start: 43692, Stop: 43468, Start Num: 51
Candidate Starts for GordTnk2_48:
(Start: 51 @43692 has 1 MA's), (69, 43653), (90, 43593),

Gene: Gorge_63 Start: 41377, Stop: 41658, Start Num: 36
Candidate Starts for Gorge_63:
(30, 41350), (Start: 36 @41377 has 174 MA's), (47, 41401), (54, 41416), (74, 41461), (78, 41473), (102, 41551), (105, 41563), (114, 41587), (118, 41599), (132, 41650),

Gene: Gravaillia_69 Start: 48905, Stop: 49213, Start Num: 33
Candidate Starts for Gravaillia_69:
(31, 48899), (Start: 33 @48905 has 24 MA's), (Start: 39 @48932 has 2 MA's), (Start: 50 @48965 has 134 MA's), (89, 49067), (97, 49094), (139, 49205),

Gene: Greep_97 Start: 57931, Stop: 58191, Start Num: 50
Candidate Starts for Greep_97:
(Start: 50 @57931 has 134 MA's), (63, 57952), (88, 58027), (107, 58096), (123, 58162),

Gene: Grimmer_66 Start: 41537, Stop: 41815, Start Num: 36
Candidate Starts for Grimmer_66:
(30, 41510), (Start: 36 @41537 has 174 MA's), (75, 41621), (98, 41693), (102, 41708), (105, 41720), (114, 41744), (118, 41756), (132, 41807),

Gene: HH92_74 Start: 48849, Stop: 49157, Start Num: 33
Candidate Starts for HH92_74:
(31, 48843), (Start: 33 @48849 has 24 MA's), (Start: 39 @48876 has 2 MA's), (Start: 50 @48909 has 134 MA's), (89, 49011), (97, 49038), (139, 49149),

Gene: Hades_60 Start: 40833, Stop: 41114, Start Num: 36
Candidate Starts for Hades_60:
(30, 40806), (Start: 36 @40833 has 174 MA's), (47, 40857), (54, 40872), (74, 40917), (78, 40929), (102, 41007), (105, 41019), (114, 41043), (118, 41055), (132, 41106),

Gene: Hadrien_72 Start: 48849, Stop: 49157, Start Num: 33
Candidate Starts for Hadrien_72:
(31, 48843), (Start: 33 @48849 has 24 MA's), (Start: 39 @48876 has 2 MA's), (Start: 50 @48909 has 134 MA's), (89, 49011), (97, 49038), (139, 49149),

Gene: Hail_68 Start: 48849, Stop: 49157, Start Num: 33
Candidate Starts for Hail_68:
(31, 48843), (Start: 33 @48849 has 24 MA's), (Start: 39 @48876 has 2 MA's), (Start: 50 @48909 has 134 MA's), (89, 49011), (97, 49038), (139, 49149),

Gene: Hammy_53 Start: 38432, Stop: 38686, Start Num: 49
Candidate Starts for Hammy_53:
(8, 38114), (13, 38183), (16, 38279), (Start: 49 @38432 has 6 MA's), (78, 38498), (98, 38561), (108, 38606),

Gene: HanKaySha_94 Start: 56224, Stop: 56484, Start Num: 50
Candidate Starts for HanKaySha_94:
(Start: 50 @56224 has 134 MA's), (63, 56245), (88, 56320), (107, 56389), (123, 56455),

Gene: Harella_93 Start: 57373, Stop: 57633, Start Num: 50
Candidate Starts for Harella_93:
(Start: 50 @57373 has 134 MA's), (63, 57394), (88, 57469), (107, 57538), (123, 57604),

Gene: Hegedechwinu_59 Start: 39047, Stop: 39328, Start Num: 36
Candidate Starts for Hegedechwinu_59:
(Start: 36 @39047 has 174 MA's), (47, 39071), (54, 39086), (74, 39131), (78, 39143), (102, 39221), (105, 39233), (114, 39257), (118, 39269), (132, 39320),

Gene: Henry_91 Start: 56534, Stop: 56794, Start Num: 50
Candidate Starts for Henry_91:
(Start: 50 @56534 has 134 MA's), (63, 56555), (88, 56630), (107, 56699), (123, 56765),

Gene: Highbury_92 Start: 56224, Stop: 56484, Start Num: 50
Candidate Starts for Highbury_92:
(Start: 50 @56224 has 134 MA's), (63, 56245), (88, 56320), (107, 56389), (123, 56455),

Gene: Hlubikazi_55 Start: 38053, Stop: 38334, Start Num: 36

Candidate Starts for Hlubikazi_55:
(30, 38026), (Start: 36 @38053 has 174 MA's), (47, 38077), (54, 38092), (74, 38137), (78, 38149), (102, 38227), (105, 38239), (114, 38263), (118, 38275), (132, 38326),

Gene: Hollow_40 Start: 44620, Stop: 44420, Start Num: 66
Candidate Starts for Hollow_40:
(Start: 66 @44620 has 10 MA's),

Gene: Holt_98 Start: 57071, Stop: 57331, Start Num: 50
Candidate Starts for Holt_98:
(Start: 50 @57071 has 134 MA's), (63, 57092), (88, 57167), (107, 57236), (123, 57302),

Gene: Hoonter_96 Start: 56529, Stop: 56789, Start Num: 50
Candidate Starts for Hoonter_96:
(Start: 50 @56529 has 134 MA's), (63, 56550), (88, 56625), (107, 56694), (123, 56760),

Gene: Hopey_94 Start: 57035, Stop: 57295, Start Num: 50
Candidate Starts for Hopey_94:
(Start: 50 @57035 has 134 MA's), (63, 57056), (88, 57131), (107, 57200), (123, 57266),

Gene: HufflyPuff_95 Start: 57119, Stop: 57379, Start Num: 50
Candidate Starts for HufflyPuff_95:
(Start: 50 @57119 has 134 MA's), (63, 57140), (88, 57215), (107, 57284), (123, 57350),

Gene: Hurricane_53 Start: 37919, Stop: 38188, Start Num: 45
Candidate Starts for Hurricane_53:
(13, 37679), (Start: 20 @37823 has 1 MA's), (Start: 45 @37919 has 14 MA's), (57, 37943), (98, 38063), (114, 38117),

Gene: IHOP_91 Start: 56697, Stop: 56957, Start Num: 50
Candidate Starts for IHOP_91:
(Start: 50 @56697 has 134 MA's), (63, 56718), (88, 56793), (107, 56862), (123, 56928),

Gene: IPhane7_70 Start: 46141, Stop: 46485, Start Num: 28
Candidate Starts for IPhane7_70:
(Start: 28 @46141 has 22 MA's), (41, 46192), (77, 46279), (112, 46396), (116, 46408), (120, 46429),

Gene: IbOuu_58 Start: 40412, Stop: 40696, Start Num: 36
Candidate Starts for IbOuu_58:
(Start: 36 @40412 has 174 MA's), (47, 40436), (54, 40451), (74, 40496), (78, 40508), (102, 40586), (105, 40598), (114, 40622), (118, 40634), (132, 40688),

Gene: Ibhubesi_59 Start: 40025, Stop: 40303, Start Num: 36
Candidate Starts for Ibhubesi_59:
(30, 39998), (Start: 36 @40025 has 174 MA's), (75, 40109), (79, 40118), (102, 40196), (105, 40208), (114, 40232), (118, 40244), (132, 40295),

Gene: Ibrahim_41 Start: 31892, Stop: 32149, Start Num: 45
Candidate Starts for Ibrahim_41:
(11, 31616), (12, 31637), (Start: 45 @31892 has 14 MA's), (78, 31976), (105, 32066),

Gene: Icee_94 Start: 56184, Stop: 56444, Start Num: 50
Candidate Starts for Icee_94:

(Start: 50 @56184 has 134 MA's), (63, 56205), (88, 56280), (107, 56349), (123, 56415),

Gene: IdentityCrisis_42 Start: 29075, Stop: 29332, Start Num: 61
Candidate Starts for IdentityCrisis_42:
(Start: 61 @29075 has 1 MA's), (67, 29090), (85, 29150), (92, 29168),

Gene: Inca_90 Start: 55186, Stop: 55446, Start Num: 50
Candidate Starts for Inca_90:
(Start: 50 @55186 has 134 MA's), (63, 55207), (88, 55282), (107, 55351), (123, 55417),

Gene: Inventum_54 Start: 39529, Stop: 39807, Start Num: 36
Candidate Starts for Inventum_54:
(30, 39502), (Start: 36 @39529 has 174 MA's), (75, 39613), (79, 39622), (98, 39685), (102, 39700), (105, 39712), (114, 39736), (118, 39748), (132, 39799),

Gene: IrishSherpFalk_60 Start: 41690, Stop: 41971, Start Num: 36
Candidate Starts for IrishSherpFalk_60:
(30, 41663), (Start: 36 @41690 has 174 MA's), (47, 41714), (54, 41729), (74, 41774), (78, 41786), (102, 41864), (105, 41876), (114, 41900), (118, 41912), (132, 41963),

Gene: Izel_71 Start: 46136, Stop: 46480, Start Num: 28
Candidate Starts for Izel_71:
(Start: 28 @46136 has 22 MA's), (41, 46187), (77, 46274), (112, 46391), (116, 46403), (120, 46424),

Gene: Jabbawokkie_73 Start: 41755, Stop: 42039, Start Num: 36
Candidate Starts for Jabbawokkie_73:
(30, 41728), (Start: 36 @41755 has 174 MA's), (47, 41779), (54, 41794), (74, 41839), (78, 41851), (102, 41929), (105, 41941), (114, 41965), (118, 41977), (132, 42031),

Gene: James_63 Start: 41502, Stop: 41783, Start Num: 36
Candidate Starts for James_63:
(30, 41475), (Start: 36 @41502 has 174 MA's), (47, 41526), (54, 41541), (74, 41586), (78, 41598), (102, 41676), (105, 41688), (114, 41712), (118, 41724), (132, 41775),

Gene: Jarcob_59 Start: 39980, Stop: 40264, Start Num: 36
Candidate Starts for Jarcob_59:
(30, 39953), (Start: 36 @39980 has 174 MA's), (47, 40004), (54, 40019), (74, 40064), (78, 40076), (102, 40154), (105, 40166), (114, 40190), (118, 40202), (132, 40256),

Gene: JeTaime_94 Start: 57387, Stop: 57647, Start Num: 50
Candidate Starts for JeTaime_94:
(Start: 50 @57387 has 134 MA's), (63, 57408), (88, 57483), (107, 57552), (123, 57618),

Gene: Jennelsea_57 Start: 38665, Stop: 38943, Start Num: 36
Candidate Starts for Jennelsea_57:
(30, 38638), (Start: 36 @38665 has 174 MA's), (75, 38749), (79, 38758), (98, 38821), (102, 38836), (105, 38848), (114, 38872), (118, 38884), (123, 38908), (132, 38935),

Gene: Jinglebell_64 Start: 42540, Stop: 42818, Start Num: 36
Candidate Starts for Jinglebell_64:
(30, 42513), (Start: 36 @42540 has 174 MA's), (75, 42624), (79, 42633), (98, 42696), (102, 42711), (105, 42723), (114, 42747), (118, 42759), (132, 42810),

Gene: Job42_61 Start: 41920, Stop: 42201, Start Num: 36
Candidate Starts for Job42_61:
(30, 41893), (Start: 36 @41920 has 174 MA's), (75, 42004), (79, 42013), (98, 42076), (102, 42091), (105, 42103), (114, 42127), (118, 42139), (132, 42193),

Gene: Jobypre_79 Start: 53794, Stop: 54063, Start Num: 48
Candidate Starts for Jobypre_79:
(Start: 48 @53794 has 14 MA's), (Start: 55 @53809 has 5 MA's), (105, 53944), (114, 53986), (123, 54022), (131, 54046),

Gene: Jobypre_80 Start: 54060, Stop: 54383, Start Num: 34
Candidate Starts for Jobypre_80:
(Start: 34 @54060 has 18 MA's), (40, 54081), (105, 54273), (113, 54309), (123, 54354),

Gene: JoeyJr_54 Start: 38435, Stop: 38713, Start Num: 36
Candidate Starts for JoeyJr_54:
(30, 38408), (Start: 36 @38435 has 174 MA's), (75, 38519), (79, 38528), (98, 38591), (102, 38606), (105, 38618), (114, 38642), (118, 38654), (132, 38705),

Gene: Jubie_78 Start: 53929, Stop: 54198, Start Num: 48
Candidate Starts for Jubie_78:
(Start: 48 @53929 has 14 MA's), (Start: 55 @53944 has 5 MA's), (105, 54079), (114, 54121), (123, 54157), (131, 54181),

Gene: Jubie_79 Start: 54195, Stop: 54518, Start Num: 34
Candidate Starts for Jubie_79:
(Start: 34 @54195 has 18 MA's), (40, 54216), (105, 54408), (113, 54444), (123, 54489),

Gene: Jumbo_47 Start: 48027, Stop: 47818, Start Num: 51
Candidate Starts for Jumbo_47:
(Start: 51 @48027 has 1 MA's),

Gene: JustASigh_72 Start: 46685, Stop: 47041, Start Num: 20
Candidate Starts for JustASigh_72:
(1, 46043), (2, 46070), (6, 46391), (7, 46415), (9, 46490), (15, 46622), (Start: 20 @46685 has 1 MA's), (Start: 35 @46751 has 1 MA's), (97, 46919),

Gene: Kanye_90 Start: 56281, Stop: 56541, Start Num: 50
Candidate Starts for Kanye_90:
(Start: 50 @56281 has 134 MA's), (63, 56302), (88, 56377), (107, 56446), (123, 56512),

Gene: Karhdo_56 Start: 39525, Stop: 39809, Start Num: 36
Candidate Starts for Karhdo_56:
(30, 39498), (Start: 36 @39525 has 174 MA's), (47, 39549), (54, 39564), (74, 39609), (78, 39621), (102, 39699), (105, 39711), (114, 39735), (118, 39747), (132, 39801),

Gene: Katyusha_39 Start: 44274, Stop: 44074, Start Num: 66
Candidate Starts for Katyusha_39:
(Start: 66 @44274 has 10 MA's),

Gene: Keelan_94 Start: 48287, Stop: 48550, Start Num: 46
Candidate Starts for Keelan_94:
(Start: 46 @48287 has 1 MA's), (82, 48365), (98, 48419), (133, 48542),

Gene: Kersh_61 Start: 42278, Stop: 42559, Start Num: 36
Candidate Starts for Kersh_61:
(30, 42251), (Start: 36 @42278 has 174 MA's), (47, 42302), (54, 42317), (74, 42362), (78, 42374), (114, 42488), (118, 42500), (132, 42551),

Gene: Keshu_55 Start: 37986, Stop: 38255, Start Num: 45
Candidate Starts for Keshu_55:
(13, 37746), (Start: 45 @37986 has 14 MA's), (57, 38010), (98, 38130), (114, 38184),

Gene: KiSi_55 Start: 38687, Stop: 38956, Start Num: 52
Candidate Starts for KiSi_55:
(Start: 49 @38681 has 6 MA's), (Start: 52 @38687 has 3 MA's), (72, 38729), (78, 38753), (108, 38861), (135, 38945),

Gene: Kimberlium_62 Start: 41811, Stop: 42092, Start Num: 36
Candidate Starts for Kimberlium_62:
(26, 41775), (Start: 36 @41811 has 174 MA's), (47, 41835), (74, 41892), (78, 41904), (102, 41982), (105, 41994), (114, 42018), (118, 42030), (132, 42084),

Gene: Kimchi_97 Start: 56801, Stop: 57061, Start Num: 50
Candidate Starts for Kimchi_97:
(Start: 50 @56801 has 134 MA's), (63, 56822), (88, 56897), (107, 56966), (123, 57032),

Gene: Kinbote_73 Start: 48849, Stop: 49157, Start Num: 33
Candidate Starts for Kinbote_73:
(31, 48843), (Start: 33 @48849 has 24 MA's), (Start: 39 @48876 has 2 MA's), (Start: 50 @48909 has 134 MA's), (89, 49011), (97, 49038), (139, 49149),

Gene: KingJulian_59 Start: 39051, Stop: 39335, Start Num: 36
Candidate Starts for KingJulian_59:
(30, 39024), (Start: 36 @39051 has 174 MA's), (47, 39075), (54, 39090), (74, 39135), (102, 39225), (105, 39237), (114, 39261), (118, 39273), (132, 39327),

Gene: KingMidas_58 Start: 40097, Stop: 40375, Start Num: 36
Candidate Starts for KingMidas_58:
(30, 40070), (Start: 36 @40097 has 174 MA's), (75, 40181), (79, 40190), (98, 40253), (102, 40268), (105, 40280), (114, 40304), (118, 40316), (132, 40367),

Gene: Kingsolomon_78 Start: 54067, Stop: 54390, Start Num: 34
Candidate Starts for Kingsolomon_78:
(Start: 34 @54067 has 18 MA's), (40, 54088), (105, 54280), (113, 54316), (123, 54361),

Gene: Kingsolomon_77 Start: 53801, Stop: 54070, Start Num: 48
Candidate Starts for Kingsolomon_77:
(Start: 48 @53801 has 14 MA's), (Start: 55 @53816 has 5 MA's), (105, 53951), (114, 53993), (123, 54029), (131, 54053),

Gene: KirDoubleO7_77 Start: 53797, Stop: 54084, Start Num: 55
Candidate Starts for KirDoubleO7_77:
(Start: 48 @53782 has 14 MA's), (Start: 55 @53797 has 5 MA's), (105, 53935),

Gene: KirDoubleO7_78 Start: 54081, Stop: 54404, Start Num: 34

Candidate Starts for KirDoubleO7_78:
(Start: 34 @54081 has 18 MA's), (Start: 48 @54126 has 14 MA's), (53, 54138), (105, 54294), (110, 54321), (115, 54339), (118, 54351), (123, 54375),

Gene: KleverKiS_69 Start: 45857, Stop: 46201, Start Num: 28
Candidate Starts for KleverKiS_69:
(Start: 28 @45857 has 22 MA's), (41, 45908), (77, 45995), (112, 46112), (116, 46124), (120, 46145),

Gene: Koella_53 Start: 35910, Stop: 36194, Start Num: 36
Candidate Starts for Koella_53:
(30, 35883), (Start: 36 @35910 has 174 MA's), (47, 35934), (54, 35949), (74, 35994), (78, 36006), (102, 36084), (105, 36096), (114, 36120), (118, 36132), (132, 36186),

Gene: Kostya_93 Start: 56799, Stop: 57059, Start Num: 50
Candidate Starts for Kostya_93:
(Start: 50 @56799 has 134 MA's), (63, 56820), (88, 56895), (107, 56964), (123, 57030),

Gene: KristaRAM_62 Start: 42482, Stop: 42763, Start Num: 36
Candidate Starts for KristaRAM_62:
(30, 42455), (Start: 36 @42482 has 174 MA's), (47, 42506), (54, 42521), (74, 42566), (78, 42578), (102, 42656), (105, 42668), (114, 42692), (118, 42704), (132, 42755),

Gene: Krypton555_80 Start: 54028, Stop: 54342, Start Num: 48
Candidate Starts for Krypton555_80:
(Start: 48 @54028 has 14 MA's), (Start: 55 @54043 has 5 MA's), (96, 54154), (105, 54190), (140, 54322),

Gene: Kumao_66 Start: 46834, Stop: 47148, Start Num: 35
Candidate Starts for Kumao_66:
(Start: 35 @46834 has 1 MA's), (Start: 45 @46864 has 14 MA's), (75, 46933), (106, 47026),

Gene: Kvothe_39 Start: 44173, Stop: 43973, Start Num: 66
Candidate Starts for Kvothe_39:
(Start: 66 @44173 has 10 MA's),

Gene: LastJedi_53 Start: 37230, Stop: 37511, Start Num: 36
Candidate Starts for LastJedi_53:
(30, 37203), (Start: 36 @37230 has 174 MA's), (47, 37254), (54, 37269), (74, 37314), (78, 37326), (102, 37404), (105, 37416), (114, 37440), (118, 37452), (132, 37503),

Gene: Latretium_61 Start: 40556, Stop: 40837, Start Num: 36
Candidate Starts for Latretium_61:
(30, 40529), (Start: 36 @40556 has 174 MA's), (47, 40580), (54, 40595), (74, 40640), (78, 40652), (102, 40730), (105, 40742), (114, 40766), (118, 40778), (132, 40829),

Gene: LeMond_55 Start: 38671, Stop: 38940, Start Num: 52
Candidate Starts for LeMond_55:
(Start: 49 @38665 has 6 MA's), (Start: 52 @38671 has 3 MA's), (72, 38713), (78, 38737), (108, 38845), (135, 38929),

Gene: Lea83_53 Start: 37972, Stop: 38241, Start Num: 45
Candidate Starts for Lea83_53:
(3, 37507), (13, 37732), (Start: 45 @37972 has 14 MA's), (57, 37996), (98, 38116), (114, 38170),

Gene: Leozinho_58 Start: 39315, Stop: 39593, Start Num: 36
Candidate Starts for Leozinho_58:
(30, 39288), (Start: 36 @39315 has 174 MA's), (75, 39399), (79, 39408), (98, 39471), (102, 39486), (105, 39498), (114, 39522), (118, 39534), (132, 39585),

Gene: Leperchaun_51 Start: 37665, Stop: 37943, Start Num: 36
Candidate Starts for Leperchaun_51:
(30, 37638), (Start: 36 @37665 has 174 MA's), (75, 37749), (79, 37758), (98, 37821), (102, 37836), (105, 37848), (114, 37872), (118, 37884), (132, 37935),

Gene: LilHazelnut_75 Start: 48849, Stop: 49157, Start Num: 33
Candidate Starts for LilHazelnut_75:
(31, 48843), (Start: 33 @48849 has 24 MA's), (Start: 39 @48876 has 2 MA's), (Start: 50 @48909 has 134 MA's), (89, 49011), (97, 49038), (139, 49149),

Gene: LilMoolah_57 Start: 39425, Stop: 39706, Start Num: 36
Candidate Starts for LilMoolah_57:
(30, 39398), (Start: 36 @39425 has 174 MA's), (75, 39509), (79, 39518), (98, 39581), (102, 39596), (105, 39608), (114, 39632), (118, 39644), (132, 39698),

Gene: Lilac_96 Start: 56626, Stop: 56886, Start Num: 50
Candidate Starts for Lilac_96:
(Start: 50 @56626 has 134 MA's), (63, 56647), (88, 56722), (107, 56791), (123, 56857),

Gene: LilhomieP_70 Start: 46620, Stop: 46964, Start Num: 28
Candidate Starts for LilhomieP_70:
(Start: 28 @46620 has 22 MA's), (41, 46671), (77, 46758), (112, 46875), (116, 46887), (120, 46908),

Gene: Lilizi_94 Start: 56263, Stop: 56523, Start Num: 50
Candidate Starts for Lilizi_94:
(Start: 50 @56263 has 134 MA's), (63, 56284), (88, 56359), (107, 56428), (123, 56494),

Gene: Lilpickle_92 Start: 56151, Stop: 56411, Start Num: 50
Candidate Starts for Lilpickle_92:
(Start: 50 @56151 has 134 MA's), (63, 56172), (88, 56247), (107, 56316), (123, 56382),

Gene: Lishka_37 Start: 25254, Stop: 25553, Start Num: 44
Candidate Starts for Lishka_37:
(10, 24966), (14, 25011), (23, 25185), (Start: 44 @25254 has 4 MA's), (105, 25416),

Gene: LittleShirley_58 Start: 40469, Stop: 40753, Start Num: 36
Candidate Starts for LittleShirley_58:
(30, 40442), (Start: 36 @40469 has 174 MA's), (47, 40493), (54, 40508), (74, 40553), (78, 40565), (102, 40643), (105, 40655), (114, 40679), (118, 40691), (132, 40745),

Gene: Livelaughbron_95 Start: 57726, Stop: 57986, Start Num: 50
Candidate Starts for Livelaughbron_95:
(Start: 50 @57726 has 134 MA's), (63, 57747), (88, 57822), (107, 57891), (123, 57957),

Gene: LiyuLake_78 Start: 53870, Stop: 54157, Start Num: 55
Candidate Starts for LiyuLake_78:
(Start: 48 @53855 has 14 MA's), (Start: 55 @53870 has 5 MA's), (105, 54008),

Gene: LiyuLake_79 Start: 54154, Stop: 54477, Start Num: 34
Candidate Starts for LiyuLake_79:
(Start: 34 @54154 has 18 MA's), (Start: 48 @54199 has 14 MA's), (53, 54211), (105, 54367), (110, 54394), (115, 54412), (118, 54424), (123, 54448),

Gene: Lizziana_65 Start: 40983, Stop: 41264, Start Num: 36
Candidate Starts for Lizziana_65:
(30, 40956), (Start: 36 @40983 has 174 MA's), (47, 41007), (54, 41022), (74, 41067), (78, 41079), (102, 41157), (105, 41169), (114, 41193), (118, 41205), (132, 41256),

Gene: Llama_64 Start: 42394, Stop: 42672, Start Num: 36
Candidate Starts for Llama_64:
(30, 42367), (Start: 36 @42394 has 174 MA's), (75, 42478), (79, 42487), (98, 42550), (102, 42565), (105, 42577), (114, 42601), (118, 42613), (132, 42664),

Gene: Llij_55 Start: 38833, Stop: 39117, Start Num: 36
Candidate Starts for Llij_55:
(30, 38806), (Start: 36 @38833 has 174 MA's), (47, 38857), (54, 38872), (74, 38917), (78, 38929), (102, 39007), (105, 39019), (114, 39043), (118, 39055), (132, 39109),

Gene: Lolly9_78 Start: 53913, Stop: 54164, Start Num: 55
Candidate Starts for Lolly9_78:
(Start: 48 @53898 has 14 MA's), (Start: 55 @53913 has 5 MA's), (114, 54090), (131, 54150),

Gene: Lolly9_79 Start: 54161, Stop: 54481, Start Num: 34
Candidate Starts for Lolly9_79:
(Start: 34 @54161 has 18 MA's), (40, 54182), (53, 54215), (98, 54344), (99, 54350), (105, 54371), (110, 54398), (115, 54416), (123, 54452),

Gene: Lorde_59 Start: 38120, Stop: 38404, Start Num: 36
Candidate Starts for Lorde_59:
(30, 38093), (Start: 36 @38120 has 174 MA's), (47, 38144), (54, 38159), (74, 38204), (78, 38216), (102, 38294), (105, 38306), (114, 38330), (118, 38342), (132, 38396),

Gene: Lucia_58 Start: 38977, Stop: 39258, Start Num: 36
Candidate Starts for Lucia_58:
(30, 38950), (Start: 36 @38977 has 174 MA's), (47, 39001), (54, 39016), (74, 39061), (78, 39073), (102, 39151), (105, 39163), (114, 39187), (118, 39199), (132, 39250),

Gene: Luke_72 Start: 48804, Stop: 49112, Start Num: 33
Candidate Starts for Luke_72:
(31, 48798), (Start: 33 @48804 has 24 MA's), (Start: 39 @48831 has 2 MA's), (Start: 50 @48864 has 134 MA's), (89, 48966), (97, 48993), (139, 49104),

Gene: Lumos_80 Start: 54057, Stop: 54380, Start Num: 34
Candidate Starts for Lumos_80:
(Start: 34 @54057 has 18 MA's), (40, 54078), (105, 54270), (113, 54306), (123, 54351),

Gene: Luna22_68 Start: 48833, Stop: 49141, Start Num: 33
Candidate Starts for Luna22_68:
(31, 48827), (Start: 33 @48833 has 24 MA's), (Start: 39 @48860 has 2 MA's), (Start: 50 @48893 has 134 MA's), (89, 48995), (97, 49022), (139, 49133),

Gene: LunaBlu_61 Start: 40560, Stop: 40838, Start Num: 36
Candidate Starts for LunaBlu_61:
(30, 40533), (Start: 36 @40560 has 174 MA's), (75, 40644), (79, 40653), (98, 40716), (102, 40731), (105, 40743), (114, 40767), (118, 40779), (132, 40830),

Gene: LunaStella_58 Start: 39407, Stop: 39685, Start Num: 36
Candidate Starts for LunaStella_58:
(25, 39371), (Start: 36 @39407 has 174 MA's), (Start: 42 @39416 has 1 MA's), (72, 39473), (75, 39491), (79, 39500), (98, 39563), (102, 39578), (105, 39590), (114, 39614), (118, 39626), (132, 39677),

Gene: MISSy_94 Start: 56379, Stop: 56639, Start Num: 50
Candidate Starts for MISSy_94:
(Start: 50 @56379 has 134 MA's), (63, 56400), (88, 56475), (107, 56544), (123, 56610),

Gene: MPhalcon_94 Start: 56372, Stop: 56632, Start Num: 50
Candidate Starts for MPhalcon_94:
(Start: 50 @56372 has 134 MA's), (63, 56393), (88, 56468), (107, 56537), (123, 56603),

Gene: MacnCheese_55 Start: 38928, Stop: 39194, Start Num: 45
Candidate Starts for MacnCheese_55:
(13, 38688), (Start: 45 @38928 has 14 MA's), (57, 38949), (Start: 62 @38955 has 10 MA's), (98, 39069), (108, 39114), (114, 39123),

Gene: MadMen_57 Start: 39757, Stop: 40041, Start Num: 36
Candidate Starts for MadMen_57:
(30, 39730), (Start: 36 @39757 has 174 MA's), (47, 39781), (54, 39796), (74, 39841), (78, 39853), (102, 39931), (105, 39943), (114, 39967), (118, 39979), (132, 40033),

Gene: MadamMonkfish_93 Start: 55878, Stop: 56138, Start Num: 50
Candidate Starts for MadamMonkfish_93:
(Start: 50 @55878 has 134 MA's), (63, 55899), (88, 55974), (107, 56043), (123, 56109),

Gene: Madiba_57 Start: 39006, Stop: 39290, Start Num: 36
Candidate Starts for Madiba_57:
(30, 38979), (Start: 36 @39006 has 174 MA's), (47, 39030), (54, 39045), (74, 39090), (78, 39102), (102, 39180), (105, 39192), (114, 39216), (118, 39228), (132, 39282),

Gene: Mahavrat_57 Start: 39385, Stop: 39666, Start Num: 36
Candidate Starts for Mahavrat_57:
(30, 39358), (Start: 36 @39385 has 174 MA's), (47, 39409), (54, 39424), (74, 39469), (78, 39481), (102, 39559), (105, 39571), (114, 39595), (118, 39607), (132, 39658),

Gene: Manda_95 Start: 57955, Stop: 58215, Start Num: 50
Candidate Starts for Manda_95:
(Start: 50 @57955 has 134 MA's), (63, 57976), (88, 58051), (107, 58120), (123, 58186),

Gene: Mandlovu_55 Start: 37995, Stop: 38276, Start Num: 36
Candidate Starts for Mandlovu_55:
(30, 37968), (Start: 36 @37995 has 174 MA's), (47, 38019), (54, 38034), (74, 38079), (78, 38091), (102, 38169), (105, 38181), (114, 38205), (118, 38217), (132, 38268),

Gene: Maravista_60 Start: 41432, Stop: 41713, Start Num: 36
Candidate Starts for Maravista_60:
(30, 41405), (Start: 36 @41432 has 174 MA's), (47, 41456), (54, 41471), (74, 41516), (78, 41528), (102, 41606), (105, 41618), (114, 41642), (118, 41654), (132, 41705),

Gene: Marker_61 Start: 40100, Stop: 40384, Start Num: 36
Candidate Starts for Marker_61:
(30, 40073), (Start: 36 @40100 has 174 MA's), (47, 40124), (54, 40139), (74, 40184), (78, 40196), (102, 40274), (105, 40286), (114, 40310), (118, 40322), (132, 40376),

Gene: Marshawn_53 Start: 38262, Stop: 38522, Start Num: 49
Candidate Starts for Marshawn_53:
(8, 37941), (13, 38010), (16, 38106), (Start: 49 @38262 has 6 MA's), (73, 38319), (105, 38427), (123, 38490),

Gene: Marshmallow_91 Start: 57427, Stop: 57687, Start Num: 50
Candidate Starts for Marshmallow_91:
(Start: 50 @57427 has 134 MA's), (63, 57448), (88, 57523), (107, 57592), (123, 57658),

Gene: Martik_59 Start: 39936, Stop: 40217, Start Num: 36
Candidate Starts for Martik_59:
(30, 39909), (Start: 36 @39936 has 174 MA's), (47, 39960), (54, 39975), (74, 40020), (78, 40032), (102, 40110), (105, 40122), (114, 40146), (118, 40158), (132, 40209),

Gene: MaryV_81 Start: 51140, Stop: 51478, Start Num: 29
Candidate Starts for MaryV_81:
(Start: 28 @51137 has 22 MA's), (Start: 29 @51140 has 5 MA's), (73, 51254), (75, 51266), (81, 51275), (94, 51311), (121, 51428),

Gene: Mattes_63 Start: 41502, Stop: 41783, Start Num: 36
Candidate Starts for Mattes_63:
(30, 41475), (Start: 36 @41502 has 174 MA's), (47, 41526), (54, 41541), (74, 41586), (78, 41598), (102, 41676), (105, 41688), (114, 41712), (118, 41724), (132, 41775),

Gene: Maxxinista_96 Start: 56793, Stop: 57053, Start Num: 50
Candidate Starts for Maxxinista_96:
(Start: 50 @56793 has 134 MA's), (63, 56814), (88, 56889), (107, 56958), (123, 57024),

Gene: Mbo2_39 Start: 36317, Stop: 36114, Start Num: 69
Candidate Starts for Mbo2_39:
(69, 36317),

Gene: Mindy_92 Start: 55700, Stop: 55960, Start Num: 50
Candidate Starts for Mindy_92:
(Start: 50 @55700 has 134 MA's), (63, 55721), (88, 55796), (107, 55865), (123, 55931),

Gene: MiniLon_83 Start: 53899, Stop: 54165, Start Num: 48
Candidate Starts for MiniLon_83:
(Start: 48 @53899 has 14 MA's), (Start: 55 @53914 has 5 MA's), (114, 54091), (131, 54151),

Gene: MiniLon_84 Start: 54162, Stop: 54482, Start Num: 34
Candidate Starts for MiniLon_84:

(Start: 34 @54162 has 18 MA's), (40, 54183), (53, 54216), (98, 54345), (99, 54351), (105, 54372), (110, 54399), (115, 54417), (123, 54453),

Gene: MiniMac_83 Start: 53909, Stop: 54160, Start Num: 55
Candidate Starts for MiniMac_83:
(Start: 48 @53894 has 14 MA's), (Start: 55 @53909 has 5 MA's), (114, 54086), (131, 54146),

Gene: MiniMac_84 Start: 54157, Stop: 54477, Start Num: 34
Candidate Starts for MiniMac_84:
(Start: 34 @54157 has 18 MA's), (40, 54178), (53, 54211), (98, 54340), (99, 54346), (105, 54367), (110, 54394), (115, 54412), (123, 54448),

Gene: MinionDave_58 Start: 40283, Stop: 40564, Start Num: 36
Candidate Starts for MinionDave_58:
(Start: 36 @40283 has 174 MA's), (47, 40307), (54, 40322), (74, 40367), (78, 40379), (102, 40457), (105, 40469), (114, 40493), (118, 40505), (132, 40556),

Gene: Miniwave_88 Start: 56195, Stop: 56455, Start Num: 50
Candidate Starts for Miniwave_88:
(Start: 50 @56195 has 134 MA's), (63, 56216), (88, 56291), (107, 56360), (123, 56426),

Gene: Misfit_94 Start: 57669, Stop: 57929, Start Num: 50
Candidate Starts for Misfit_94:
(Start: 50 @57669 has 134 MA's), (63, 57690), (88, 57765), (107, 57834), (123, 57900),

Gene: MisterCuddles_57 Start: 39742, Stop: 40020, Start Num: 36
Candidate Starts for MisterCuddles_57:
(30, 39715), (Start: 36 @39742 has 174 MA's), (75, 39826), (79, 39835), (98, 39898), (102, 39913), (105, 39925), (114, 39949), (118, 39961), (132, 40012),

Gene: Modragons_63 Start: 42384, Stop: 42662, Start Num: 36
Candidate Starts for Modragons_63:
(30, 42357), (Start: 36 @42384 has 174 MA's), (75, 42468), (79, 42477), (98, 42540), (102, 42555), (105, 42567), (114, 42591), (118, 42603), (132, 42654),

Gene: Moldemort_96 Start: 56336, Stop: 56596, Start Num: 50
Candidate Starts for Moldemort_96:
(Start: 50 @56336 has 134 MA's), (63, 56357), (88, 56432), (107, 56501), (123, 56567),

Gene: Moleficent_7 Start: 5213, Stop: 4956, Start Num: 62
Candidate Starts for Moleficent_7:
(37, 5273), (Start: 62 @5213 has 10 MA's), (98, 5099), (118, 5024), (129, 4979),

Gene: MollyToe_88 Start: 55218, Stop: 55478, Start Num: 50
Candidate Starts for MollyToe_88:
(Start: 50 @55218 has 134 MA's), (63, 55239), (88, 55314), (107, 55383), (123, 55449),

Gene: Moostard_78 Start: 54062, Stop: 54385, Start Num: 34
Candidate Starts for Moostard_78:
(Start: 34 @54062 has 18 MA's), (40, 54083), (98, 54248), (113, 54311), (123, 54356),

Gene: Moostard_77 Start: 53811, Stop: 54065, Start Num: 55
Candidate Starts for Moostard_77:

(Start: 48 @53796 has 14 MA's), (Start: 55 @53811 has 5 MA's), (105, 53946), (114, 53988), (123, 54024), (131, 54048),

Gene: Morrill_7 Start: 5168, Stop: 4911, Start Num: 62
Candidate Starts for Morrill_7:
(37, 5228), (Start: 62 @5168 has 10 MA's), (86, 5096), (98, 5054), (118, 4979), (129, 4934),

Gene: Mosby_89 Start: 55952, Stop: 56212, Start Num: 50
Candidate Starts for Mosby_89:
(Start: 50 @55952 has 134 MA's), (63, 55973), (88, 56048), (107, 56117), (123, 56183),

Gene: Mova_60 Start: 39510, Stop: 39794, Start Num: 36
Candidate Starts for Mova_60:
(30, 39483), (Start: 36 @39510 has 174 MA's), (47, 39534), (54, 39549), (74, 39594), (78, 39606), (102, 39684), (105, 39696), (114, 39720), (118, 39732), (132, 39786),

Gene: Mozy_68 Start: 42517, Stop: 42798, Start Num: 36
Candidate Starts for Mozy_68:
(30, 42490), (Start: 36 @42517 has 174 MA's), (47, 42541), (54, 42556), (74, 42601), (78, 42613), (102, 42691), (105, 42703), (114, 42727), (118, 42739), (132, 42790),

Gene: MrMagoo_80 Start: 48728, Stop: 49075, Start Num: 28
Candidate Starts for MrMagoo_80:
(Start: 28 @48728 has 22 MA's), (Start: 64 @48824 has 1 MA's), (70, 48839), (87, 48893), (93, 48908), (103, 48947), (104, 48953), (125, 49034), (127, 49040), (136, 49067),

Gene: MsGreen_79 Start: 53793, Stop: 54062, Start Num: 48
Candidate Starts for MsGreen_79:
(Start: 48 @53793 has 14 MA's), (Start: 55 @53808 has 5 MA's), (105, 53943), (114, 53985), (123, 54021), (131, 54045),

Gene: MsGreen_80 Start: 54059, Stop: 54382, Start Num: 34
Candidate Starts for MsGreen_80:
(Start: 34 @54059 has 18 MA's), (40, 54080), (105, 54272), (113, 54308), (123, 54353),

Gene: MulchExplorer_62 Start: 41810, Stop: 42091, Start Num: 36
Candidate Starts for MulchExplorer_62:
(26, 41774), (Start: 36 @41810 has 174 MA's), (47, 41834), (74, 41891), (78, 41903), (102, 41981), (105, 41993), (114, 42017), (118, 42029), (132, 42083),

Gene: Murica_96 Start: 57595, Stop: 57855, Start Num: 50
Candidate Starts for Murica_96:
(Start: 50 @57595 has 134 MA's), (63, 57616), (88, 57691), (107, 57760), (123, 57826),

Gene: Murphy_93 Start: 57036, Stop: 57296, Start Num: 50
Candidate Starts for Murphy_93:
(Start: 50 @57036 has 134 MA's), (63, 57057), (88, 57132), (107, 57201), (123, 57267),

Gene: Mutaforma13_63 Start: 42840, Stop: 43124, Start Num: 36
Candidate Starts for Mutaforma13_63:
(30, 42813), (Start: 36 @42840 has 174 MA's), (47, 42864), (54, 42879), (74, 42924), (78, 42936), (102, 43014), (105, 43026), (114, 43050), (118, 43062), (132, 43116),

Gene: Mwanjiwa_65 Start: 40617, Stop: 40895, Start Num: 36
Candidate Starts for Mwanjiwa_65:
(30, 40590), (Start: 36 @40617 has 174 MA's), (75, 40701), (79, 40710), (98, 40773), (102, 40788), (105, 40800), (114, 40824), (118, 40836), (132, 40887),

Gene: Myrale_93 Start: 57158, Stop: 57418, Start Num: 50
Candidate Starts for Myrale_93:
(Start: 50 @57158 has 134 MA's), (63, 57179), (88, 57254), (107, 57323), (123, 57389),

Gene: Nairb_40 Start: 31446, Stop: 31703, Start Num: 45
Candidate Starts for Nairb_40:
(11, 31170), (12, 31191), (Start: 45 @31446 has 14 MA's), (78, 31530), (105, 31620),

Gene: Nala_95 Start: 56881, Stop: 57141, Start Num: 50
Candidate Starts for Nala_95:
(Start: 50 @56881 has 134 MA's), (63, 56902), (88, 56977), (107, 57046), (123, 57112),

Gene: Nanosmite_75 Start: 47763, Stop: 48119, Start Num: 28
Candidate Starts for Nanosmite_75:
(Start: 28 @47763 has 22 MA's), (77, 47901), (91, 47937), (104, 47985), (109, 48009), (125, 48078), (128, 48090), (138, 48114),

Gene: NelitzaMV_91 Start: 56241, Stop: 56501, Start Num: 50
Candidate Starts for NelitzaMV_91:
(Start: 50 @56241 has 134 MA's), (63, 56262), (88, 56337), (107, 56406), (123, 56472),

Gene: NewHope4_60 Start: 39931, Stop: 40209, Start Num: 36
Candidate Starts for NewHope4_60:
(30, 39904), (Start: 36 @39931 has 174 MA's), (75, 40015), (79, 40024), (98, 40087), (102, 40102), (105, 40114), (114, 40138), (118, 40150), (132, 40201),

Gene: Niagara_39 Start: 44231, Stop: 44031, Start Num: 66
Candidate Starts for Niagara_39:
(Start: 66 @44231 has 10 MA's),

Gene: Nichirin_65 Start: 43925, Stop: 44203, Start Num: 36
Candidate Starts for Nichirin_65:
(30, 43898), (Start: 36 @43925 has 174 MA's), (75, 44009), (79, 44018), (98, 44081), (102, 44096), (105, 44108), (114, 44132), (118, 44144), (132, 44195),

Gene: Nicholas_77 Start: 53801, Stop: 54070, Start Num: 48
Candidate Starts for Nicholas_77:
(Start: 48 @53801 has 14 MA's), (Start: 55 @53816 has 5 MA's), (105, 53951), (114, 53993), (123, 54029), (131, 54053),

Gene: Nicholas_78 Start: 54067, Stop: 54390, Start Num: 34
Candidate Starts for Nicholas_78:
(Start: 34 @54067 has 18 MA's), (40, 54088), (105, 54280), (113, 54316), (123, 54361),

Gene: Nimrod_94 Start: 57584, Stop: 57844, Start Num: 50
Candidate Starts for Nimrod_94:
(Start: 50 @57584 has 134 MA's), (63, 57605), (88, 57680), (107, 57749), (123, 57815),

Gene: Nitzel_57 Start: 39291, Stop: 39521, Start Num: 36
Candidate Starts for Nitzel_57:
(30, 39264), (Start: 36 @39291 has 174 MA's), (75, 39375), (98, 39444), (105, 39471), (114, 39495),

Gene: Nivrat_55 Start: 39298, Stop: 39579, Start Num: 36
Candidate Starts for Nivrat_55:
(30, 39271), (Start: 36 @39298 has 174 MA's), (75, 39382), (79, 39391), (98, 39454), (102, 39469), (105, 39481), (114, 39505), (118, 39517), (132, 39571),

Gene: NoSleep_94 Start: 56218, Stop: 56478, Start Num: 50
Candidate Starts for NoSleep_94:
(Start: 50 @56218 has 134 MA's), (63, 56239), (88, 56314), (107, 56383), (123, 56449),

Gene: NonchalantPear_93 Start: 56074, Stop: 56334, Start Num: 50
Candidate Starts for NonchalantPear_93:
(Start: 50 @56074 has 134 MA's), (63, 56095), (88, 56170), (107, 56239), (123, 56305),

Gene: NormanBulbieJr_59 Start: 39923, Stop: 40207, Start Num: 36
Candidate Starts for NormanBulbieJr_59:
(30, 39896), (Start: 36 @39923 has 174 MA's), (47, 39947), (54, 39962), (74, 40007), (78, 40019), (102, 40097), (105, 40109), (114, 40133), (118, 40145), (132, 40199),

Gene: NovoPizza_80 Start: 50985, Stop: 51311, Start Num: 24
Candidate Starts for NovoPizza_80:
(Start: 24 @50985 has 2 MA's), (Start: 33 @51003 has 24 MA's), (Start: 50 @51063 has 134 MA's), (89, 51165),

Gene: OBUpride_74 Start: 48893, Stop: 49201, Start Num: 33
Candidate Starts for OBUpride_74:
(31, 48887), (Start: 33 @48893 has 24 MA's), (Start: 39 @48920 has 2 MA's), (Start: 50 @48953 has 134 MA's), (89, 49055), (97, 49082), (139, 49193),

Gene: Ochi17_62 Start: 41991, Stop: 42269, Start Num: 36
Candidate Starts for Ochi17_62:
(30, 41964), (Start: 36 @41991 has 174 MA's), (75, 42075), (79, 42084), (98, 42147), (102, 42162), (105, 42174), (114, 42198), (118, 42210), (132, 42261),

Gene: OfUltron_64 Start: 42540, Stop: 42818, Start Num: 36
Candidate Starts for OfUltron_64:
(30, 42513), (Start: 36 @42540 has 174 MA's), (75, 42624), (79, 42633), (98, 42696), (102, 42711), (105, 42723), (114, 42747), (118, 42759), (132, 42810),

Gene: Oksu_65 Start: 42803, Stop: 43081, Start Num: 36
Candidate Starts for Oksu_65:
(30, 42776), (Start: 36 @42803 has 174 MA's), (75, 42887), (79, 42896), (98, 42959), (102, 42974), (105, 42986), (114, 43010), (118, 43022), (132, 43073),

Gene: OldBen_56 Start: 39848, Stop: 40132, Start Num: 36
Candidate Starts for OldBen_56:
(30, 39821), (Start: 36 @39848 has 174 MA's), (47, 39872), (54, 39887), (74, 39932), (78, 39944), (102, 40022), (105, 40034), (114, 40058), (118, 40070), (132, 40124),

Gene: OlympiaSaint_61 Start: 40444, Stop: 40725, Start Num: 36

Candidate Starts for OlympiaSaint_61:
(30, 40417), (Start: 36 @40444 has 174 MA's), (47, 40468), (54, 40483), (74, 40528), (78, 40540), (102, 40618), (105, 40630), (114, 40654), (118, 40666), (132, 40717),

Gene: OrionPax_92 Start: 55969, Stop: 56229, Start Num: 50
Candidate Starts for OrionPax_92:
(Start: 50 @55969 has 134 MA's), (63, 55990), (88, 56065), (107, 56134), (123, 56200),

Gene: OwlsT2W_59 Start: 40166, Stop: 40444, Start Num: 36
Candidate Starts for OwlsT2W_59:
(30, 40139), (Start: 36 @40166 has 174 MA's), (75, 40250), (98, 40322), (102, 40337), (105, 40349), (114, 40373), (118, 40385), (132, 40436),

Gene: PHappiness_54 Start: 38211, Stop: 38489, Start Num: 36
Candidate Starts for PHappiness_54:
(30, 38184), (Start: 36 @38211 has 174 MA's), (75, 38295), (79, 38304), (98, 38367), (102, 38382), (105, 38394), (114, 38418), (118, 38430), (132, 38481),

Gene: PMC_56 Start: 40550, Stop: 40834, Start Num: 36
Candidate Starts for PMC_56:
(30, 40523), (Start: 36 @40550 has 174 MA's), (47, 40574), (54, 40589), (74, 40634), (78, 40646), (102, 40724), (105, 40736), (114, 40760), (118, 40772), (132, 40826),

Gene: Pacc40_53 Start: 38285, Stop: 38563, Start Num: 36
Candidate Starts for Pacc40_53:
(30, 38258), (Start: 36 @38285 has 174 MA's), (75, 38369), (79, 38378), (98, 38441), (102, 38456), (105, 38468), (114, 38492), (118, 38504), (132, 38555),

Gene: PaddyBaddy_94 Start: 56517, Stop: 56777, Start Num: 50
Candidate Starts for PaddyBaddy_94:
(Start: 50 @56517 has 134 MA's), (63, 56538), (88, 56613), (107, 56682), (123, 56748),

Gene: Palpatine_95 Start: 57622, Stop: 57882, Start Num: 50
Candidate Starts for Palpatine_95:
(Start: 50 @57622 has 134 MA's), (63, 57643), (88, 57718), (107, 57787), (123, 57853),

Gene: PapayaSalad_40 Start: 27840, Stop: 28139, Start Num: 44
Candidate Starts for PapayaSalad_40:
(10, 27552), (14, 27597), (23, 27771), (Start: 44 @27840 has 4 MA's), (105, 28002),

Gene: Paperbeatsrock_92 Start: 56873, Stop: 57133, Start Num: 50
Candidate Starts for Paperbeatsrock_92:
(Start: 50 @56873 has 134 MA's), (63, 56894), (88, 56969), (107, 57038), (123, 57104),

Gene: Pat3_90 Start: 55071, Stop: 55331, Start Num: 50
Candidate Starts for Pat3_90:
(17, 54933), (Start: 50 @55071 has 134 MA's), (63, 55092), (107, 55236), (123, 55302),

Gene: PatoPoderoso_56 Start: 39051, Stop: 39335, Start Num: 36
Candidate Starts for PatoPoderoso_56:
(30, 39024), (Start: 36 @39051 has 174 MA's), (47, 39075), (54, 39090), (74, 39135), (102, 39225), (105, 39237), (114, 39261), (118, 39273), (132, 39327),

Gene: PegLeg_69 Start: 45880, Stop: 46224, Start Num: 28
Candidate Starts for PegLeg_69:
(Start: 28 @45880 has 22 MA's), (41, 45931), (77, 46018), (112, 46135), (116, 46147), (120, 46168),

Gene: Peridot_57 Start: 39388, Stop: 39672, Start Num: 36
Candidate Starts for Peridot_57:
(30, 39361), (Start: 36 @39388 has 174 MA's), (47, 39412), (54, 39427), (74, 39472), (78, 39484), (102, 39562), (105, 39574), (114, 39598), (118, 39610), (132, 39664),

Gene: Petra64142_98 Start: 58076, Stop: 58336, Start Num: 50
Candidate Starts for Petra64142_98:
(17, 57938), (Start: 50 @58076 has 134 MA's), (63, 58097), (107, 58241), (123, 58307),

Gene: Phaja_91 Start: 56699, Stop: 56959, Start Num: 50
Candidate Starts for Phaja_91:
(Start: 50 @56699 has 134 MA's), (63, 56720), (88, 56795), (107, 56864), (123, 56930),

Gene: Pharb_50 Start: 36682, Stop: 36942, Start Num: 45
Candidate Starts for Pharb_50:
(3, 36217), (13, 36442), (Start: 45 @36682 has 14 MA's), (57, 36697), (114, 36871),

Gene: Pharsalus_90 Start: 56673, Stop: 56933, Start Num: 50
Candidate Starts for Pharsalus_90:
(Start: 50 @56673 has 134 MA's), (63, 56694), (88, 56769), (107, 56838), (123, 56904),

Gene: Phasih_57 Start: 40355, Stop: 40633, Start Num: 36
Candidate Starts for Phasih_57:
(30, 40328), (Start: 36 @40355 has 174 MA's), (75, 40439), (79, 40448), (98, 40511), (102, 40526), (105, 40538), (114, 40562), (118, 40574), (132, 40625),

Gene: PhatBacter_97 Start: 57367, Stop: 57627, Start Num: 50
Candidate Starts for PhatBacter_97:
(Start: 50 @57367 has 134 MA's), (63, 57388), (88, 57463), (107, 57532), (123, 57598),

Gene: Phatniss_57 Start: 39928, Stop: 40212, Start Num: 36
Candidate Starts for Phatniss_57:
(30, 39901), (Start: 36 @39928 has 174 MA's), (47, 39952), (54, 39967), (74, 40012), (78, 40024), (102, 40102), (105, 40114), (114, 40138), (118, 40150), (132, 40204),

Gene: Phaux_96 Start: 57909, Stop: 58169, Start Num: 50
Candidate Starts for Phaux_96:
(Start: 50 @57909 has 134 MA's), (63, 57930), (88, 58005), (107, 58074), (123, 58140),

Gene: PhelpsODU_53 Start: 37175, Stop: 37432, Start Num: 49
Candidate Starts for PhelpsODU_53:
(Start: 49 @37175 has 6 MA's), (60, 37196), (78, 37250), (98, 37313), (100, 37322), (123, 37400),

Gene: Philus_62 Start: 41088, Stop: 41369, Start Num: 36
Candidate Starts for Philus_62:
(30, 41061), (Start: 36 @41088 has 174 MA's), (75, 41172), (79, 41181), (98, 41244), (102, 41259), (105, 41271), (114, 41295), (118, 41307), (132, 41361),

Gene: PhlipPhlop_59 Start: 41642, Stop: 41926, Start Num: 36

Candidate Starts for PhlipPhlop_59:
(30, 41615), (Start: 36 @41642 has 174 MA's), (47, 41666), (54, 41681), (74, 41726), (102, 41816), (105, 41828), (114, 41852), (118, 41864), (132, 41918),

Gene: PhriedRice_7 Start: 5180, Stop: 4923, Start Num: 62
Candidate Starts for PhriedRice_7:
(37, 5240), (Start: 62 @5180 has 10 MA's), (98, 5066), (118, 4991), (129, 4946),

Gene: Phrux_91 Start: 56185, Stop: 56445, Start Num: 50
Candidate Starts for Phrux_91:
(Start: 50 @56185 has 134 MA's), (63, 56206), (88, 56281), (107, 56350), (123, 56416),

Gene: Pippy_57 Start: 38794, Stop: 39075, Start Num: 36
Candidate Starts for Pippy_57:
(30, 38767), (Start: 36 @38794 has 174 MA's), (47, 38818), (54, 38833), (74, 38878), (78, 38890), (102, 38968), (105, 38980), (114, 39004), (118, 39016), (132, 39067),

Gene: Pixie_52 Start: 37451, Stop: 37720, Start Num: 45
Candidate Starts for Pixie_52:
(13, 37211), (Start: 45 @37451 has 14 MA's), (57, 37475), (98, 37595), (114, 37649),

Gene: Plumbus_61 Start: 40255, Stop: 40533, Start Num: 36
Candidate Starts for Plumbus_61:
(30, 40228), (Start: 36 @40255 has 174 MA's), (75, 40339), (79, 40348), (98, 40411), (102, 40426), (105, 40438), (114, 40462), (118, 40474), (132, 40525),

Gene: Poenanya_59 Start: 41112, Stop: 41390, Start Num: 36
Candidate Starts for Poenanya_59:
(30, 41085), (Start: 36 @41112 has 174 MA's), (75, 41196), (79, 41205), (98, 41268), (102, 41283), (105, 41295), (114, 41319), (118, 41331), (132, 41382),

Gene: Policronamos_96 Start: 57640, Stop: 57900, Start Num: 50
Candidate Starts for Policronamos_96:
(Start: 50 @57640 has 134 MA's), (63, 57661), (88, 57736), (107, 57805), (123, 57871),

Gene: Polka14_57 Start: 39308, Stop: 39586, Start Num: 36
Candidate Starts for Polka14_57:
(30, 39281), (Start: 36 @39308 has 174 MA's), (75, 39392), (79, 39401), (98, 39464), (102, 39479), (105, 39491), (114, 39515), (118, 39527), (132, 39578),

Gene: Pollywog_60 Start: 40759, Stop: 41043, Start Num: 36
Candidate Starts for Pollywog_60:
(30, 40732), (Start: 36 @40759 has 174 MA's), (47, 40783), (54, 40798), (74, 40843), (78, 40855), (102, 40933), (105, 40945), (114, 40969), (118, 40981), (132, 41035),

Gene: Polo2Bam_64 Start: 39785, Stop: 40063, Start Num: 36
Candidate Starts for Polo2Bam_64:
(30, 39758), (Start: 36 @39785 has 174 MA's), (75, 39869), (79, 39878), (98, 39941), (102, 39956), (105, 39968), (114, 39992), (118, 40004), (132, 40055),

Gene: Porky_92 Start: 55785, Stop: 56045, Start Num: 50
Candidate Starts for Porky_92:
(Start: 50 @55785 has 134 MA's), (63, 55806), (88, 55881), (107, 55950), (123, 56016),

Gene: Priscilla_59 Start: 40022, Stop: 40306, Start Num: 36
Candidate Starts for Priscilla_59:
(30, 39995), (Start: 36 @40022 has 174 MA's), (47, 40046), (54, 40061), (74, 40106), (78, 40118), (102, 40196), (105, 40208), (114, 40232), (118, 40244), (132, 40298),

Gene: Ptowny_90 Start: 55535, Stop: 55795, Start Num: 50
Candidate Starts for Ptowny_90:
(Start: 50 @55535 has 134 MA's), (63, 55556), (88, 55631), (107, 55700), (123, 55766),

Gene: Pumpkin_97 Start: 57561, Stop: 57821, Start Num: 50
Candidate Starts for Pumpkin_97:
(Start: 50 @57561 has 134 MA's), (63, 57582), (88, 57657), (107, 57726), (123, 57792),

Gene: Pupper_53 Start: 18336, Stop: 18617, Start Num: 33
Candidate Starts for Pupper_53:
(Start: 33 @18336 has 24 MA's), (43, 18372), (78, 18447),

Gene: Quallification_94 Start: 57281, Stop: 57541, Start Num: 50
Candidate Starts for Quallification_94:
(Start: 50 @57281 has 134 MA's), (63, 57302), (88, 57377), (107, 57446), (123, 57512),

Gene: QuickMath_61 Start: 42034, Stop: 42315, Start Num: 36
Candidate Starts for QuickMath_61:
(26, 41998), (Start: 36 @42034 has 174 MA's), (47, 42058), (74, 42115), (78, 42127), (102, 42205), (105, 42217), (114, 42241), (118, 42253), (132, 42307),

Gene: Radiance_58 Start: 40047, Stop: 40328, Start Num: 36
Candidate Starts for Radiance_58:
(30, 40020), (Start: 36 @40047 has 174 MA's), (47, 40071), (54, 40086), (74, 40131), (78, 40143), (102, 40221), (105, 40233), (114, 40257), (118, 40269), (132, 40320),

Gene: Rakim_94 Start: 56610, Stop: 56870, Start Num: 50
Candidate Starts for Rakim_94:
(Start: 50 @56610 has 134 MA's), (63, 56631), (88, 56706), (107, 56775), (123, 56841),

Gene: Red305_81 Start: 54060, Stop: 54383, Start Num: 34
Candidate Starts for Red305_81:
(Start: 34 @54060 has 18 MA's), (40, 54081), (105, 54273), (113, 54309), (123, 54354),

Gene: Red305_80 Start: 53809, Stop: 54063, Start Num: 55
Candidate Starts for Red305_80:
(Start: 48 @53794 has 14 MA's), (Start: 55 @53809 has 5 MA's), (105, 53944), (114, 53986), (123, 54022), (131, 54046),

Gene: RedBird_57 Start: 39343, Stop: 39624, Start Num: 36
Candidate Starts for RedBird_57:
(30, 39316), (Start: 36 @39343 has 174 MA's), (75, 39427), (79, 39436), (98, 39499), (102, 39514), (105, 39526), (114, 39550), (118, 39562),

Gene: Reindeer_72 Start: 47274, Stop: 47618, Start Num: 28
Candidate Starts for Reindeer_72:

(22, 47265), (Start: 28 @47274 has 22 MA's), (Start: 58 @47361 has 2 MA's), (70, 47385), (77, 47412), (84, 47433), (112, 47529), (117, 47544), (136, 47610),

Gene: Renaud18_65 Start: 40812, Stop: 41093, Start Num: 36
Candidate Starts for Renaud18_65:
(26, 40776), (Start: 36 @40812 has 174 MA's), (Start: 42 @40827 has 1 MA's), (54, 40851), (74, 40896), (78, 40908), (114, 41022), (118, 41034), (132, 41085),

Gene: Rey_77 Start: 48401, Stop: 48748, Start Num: 28
Candidate Starts for Rey_77:
(Start: 28 @48401 has 22 MA's), (70, 48512), (77, 48539), (87, 48566), (93, 48581), (103, 48620), (104, 48626), (109, 48650), (125, 48707), (127, 48713), (136, 48740),

Gene: Reynauld_48 Start: 45364, Stop: 45140, Start Num: 58
Candidate Starts for Reynauld_48:
(4, 45808), (Start: 58 @45364 has 2 MA's), (69, 45340),

Gene: Rialto_65 Start: 42826, Stop: 43110, Start Num: 36
Candidate Starts for Rialto_65:
(30, 42799), (Start: 36 @42826 has 174 MA's), (47, 42850), (54, 42865), (74, 42910), (78, 42922), (102, 43000), (105, 43012), (114, 43036), (118, 43048), (132, 43102),

Gene: RicoCaldo_7 Start: 5210, Stop: 4953, Start Num: 62
Candidate Starts for RicoCaldo_7:
(37, 5270), (Start: 62 @5210 has 10 MA's), (98, 5096), (118, 5021), (129, 4976),

Gene: Rimmer_91 Start: 56182, Stop: 56442, Start Num: 50
Candidate Starts for Rimmer_91:
(17, 56044), (Start: 50 @56182 has 134 MA's), (63, 56203), (107, 56347), (123, 56413),

Gene: Rita_60 Start: 38653, Stop: 38937, Start Num: 36
Candidate Starts for Rita_60:
(30, 38626), (Start: 36 @38653 has 174 MA's), (47, 38677), (54, 38692), (74, 38737), (78, 38749), (102, 38827), (105, 38839), (114, 38863), (118, 38875), (132, 38929),

Gene: RitaG_54 Start: 38556, Stop: 38834, Start Num: 36
Candidate Starts for RitaG_54:
(30, 38529), (Start: 36 @38556 has 174 MA's), (75, 38640), (79, 38649), (98, 38712), (102, 38727), (105, 38739), (114, 38763), (118, 38775), (132, 38826),

Gene: RiverMonster_94 Start: 57081, Stop: 57341, Start Num: 50
Candidate Starts for RiverMonster_94:
(Start: 50 @57081 has 134 MA's), (63, 57102), (88, 57177), (107, 57246), (123, 57312),

Gene: RobinSparkles_47 Start: 44442, Stop: 44158, Start Num: 21
Candidate Starts for RobinSparkles_47:
(Start: 21 @44442 has 1 MA's), (97, 44256),

Gene: Rockne_60 Start: 40562, Stop: 40846, Start Num: 36
Candidate Starts for Rockne_60:
(30, 40535), (Start: 36 @40562 has 174 MA's), (47, 40586), (54, 40601), (74, 40646), (78, 40658), (102, 40736), (105, 40748), (114, 40772), (118, 40784), (132, 40838),

Gene: RockyHorror_60 Start: 39611, Stop: 39892, Start Num: 36
Candidate Starts for RockyHorror_60:
(30, 39584), (Start: 36 @39611 has 174 MA's), (47, 39635), (54, 39650), (74, 39695), (78, 39707), (105, 39797), (114, 39821), (118, 39833), (132, 39884),

Gene: RonRayGun_41 Start: 31892, Stop: 32149, Start Num: 45
Candidate Starts for RonRayGun_41:
(11, 31616), (12, 31637), (Start: 45 @31892 has 14 MA's), (78, 31976), (105, 32066),

Gene: RoseMarie_75 Start: 49498, Stop: 49842, Start Num: 28
Candidate Starts for RoseMarie_75:
(Start: 28 @49498 has 22 MA's), (77, 49636), (104, 49720), (112, 49753),

Gene: Ruby_55 Start: 39743, Stop: 40021, Start Num: 36
Candidate Starts for Ruby_55:
(30, 39716), (Start: 36 @39743 has 174 MA's), (75, 39827), (79, 39836), (98, 39899), (102, 39914), (105, 39926), (114, 39950), (118, 39962), (132, 40013),

Gene: SCentae_53 Start: 18353, Stop: 18634, Start Num: 33
Candidate Starts for SCentae_53:
(Start: 33 @18353 has 24 MA's), (43, 18389), (78, 18464),

Gene: SG4_56 Start: 39440, Stop: 39724, Start Num: 36
Candidate Starts for SG4_56:
(Start: 36 @39440 has 174 MA's), (47, 39464), (54, 39479), (74, 39524), (78, 39536), (102, 39614), (105, 39626), (114, 39650), (118, 39662), (132, 39716),

Gene: Saal_61 Start: 41196, Stop: 41477, Start Num: 36
Candidate Starts for Saal_61:
(30, 41169), (Start: 36 @41196 has 174 MA's), (47, 41220), (54, 41235), (74, 41280), (78, 41292), (102, 41370), (105, 41382), (114, 41406), (118, 41418), (132, 41469),

Gene: Sabbb_63 Start: 40884, Stop: 41165, Start Num: 36
Candidate Starts for Sabbb_63:
(30, 40857), (Start: 36 @40884 has 174 MA's), (47, 40908), (54, 40923), (74, 40968), (78, 40980), (102, 41058), (105, 41070), (114, 41094), (118, 41106), (132, 41157),

Gene: Saints25_92 Start: 56224, Stop: 56484, Start Num: 50
Candidate Starts for Saints25_92:
(Start: 50 @56224 has 134 MA's), (63, 56245), (88, 56320), (107, 56389), (123, 56455),

Gene: Samty_78 Start: 53804, Stop: 54058, Start Num: 55
Candidate Starts for Samty_78:
(Start: 48 @53789 has 14 MA's), (Start: 55 @53804 has 5 MA's), (105, 53939), (114, 53981), (123, 54017), (131, 54041),

Gene: Samty_79 Start: 54055, Stop: 54378, Start Num: 34
Candidate Starts for Samty_79:
(Start: 34 @54055 has 18 MA's), (40, 54076), (98, 54241), (113, 54304), (123, 54349),

Gene: Sassafras_57 Start: 39528, Stop: 39806, Start Num: 36
Candidate Starts for Sassafras_57:

(30, 39501), (Start: 36 @39528 has 174 MA's), (75, 39612), (79, 39621), (98, 39684), (102, 39699), (105, 39711), (114, 39735), (118, 39747), (132, 39798),

Gene: Sassay_88 Start: 54914, Stop: 55174, Start Num: 50
Candidate Starts for Sassay_88:
(Start: 50 @54914 has 134 MA's), (63, 54935), (88, 55010), (107, 55079), (123, 55145),

Gene: Scottish_57 Start: 39568, Stop: 39852, Start Num: 36
Candidate Starts for Scottish_57:
(30, 39541), (Start: 36 @39568 has 174 MA's), (47, 39592), (54, 39607), (74, 39652), (78, 39664), (102, 39742), (105, 39754), (114, 39778), (118, 39790), (132, 39844),

Gene: SeaLumen_63 Start: 39785, Stop: 40063, Start Num: 36
Candidate Starts for SeaLumen_63:
(30, 39758), (Start: 36 @39785 has 174 MA's), (75, 39869), (79, 39878), (98, 39941), (102, 39956), (105, 39968), (114, 39992), (118, 40004), (132, 40055),

Gene: Seabastian_64 Start: 42541, Stop: 42819, Start Num: 36
Candidate Starts for Seabastian_64:
(30, 42514), (Start: 36 @42541 has 174 MA's), (75, 42625), (79, 42634), (98, 42697), (102, 42712), (105, 42724), (114, 42748), (118, 42760), (132, 42811),

Gene: ShamWow_93 Start: 57094, Stop: 57354, Start Num: 50
Candidate Starts for ShamWow_93:
(Start: 50 @57094 has 134 MA's), (63, 57115), (88, 57190), (107, 57259), (123, 57325),

Gene: ShedlockHolmes_54 Start: 37976, Stop: 38245, Start Num: 45
Candidate Starts for ShedlockHolmes_54:
(13, 37736), (Start: 45 @37976 has 14 MA's), (57, 38000), (98, 38120), (114, 38174),

Gene: ShereKhan_91 Start: 57206, Stop: 57466, Start Num: 50
Candidate Starts for ShereKhan_91:
(Start: 50 @57206 has 134 MA's), (63, 57227), (88, 57302), (107, 57371), (123, 57437),

Gene: ShiLan_58 Start: 39969, Stop: 40253, Start Num: 36
Candidate Starts for ShiLan_58:
(30, 39942), (Start: 36 @39969 has 174 MA's), (47, 39993), (54, 40008), (74, 40053), (78, 40065), (102, 40143), (105, 40155), (114, 40179), (118, 40191), (132, 40245),

Gene: ShowerHandel_62 Start: 39936, Stop: 40217, Start Num: 36
Candidate Starts for ShowerHandel_62:
(30, 39909), (Start: 36 @39936 has 174 MA's), (47, 39960), (54, 39975), (74, 40020), (78, 40032), (102, 40110), (105, 40122), (114, 40146), (118, 40158), (132, 40209),

Gene: ShroomBoi_61 Start: 40896, Stop: 41177, Start Num: 36
Candidate Starts for ShroomBoi_61:
(30, 40869), (Start: 36 @40896 has 174 MA's), (47, 40920), (54, 40935), (74, 40980), (78, 40992), (102, 41070), (105, 41082), (114, 41106), (118, 41118), (132, 41169),

Gene: SiSi_57 Start: 39342, Stop: 39626, Start Num: 36
Candidate Starts for SiSi_57:
(30, 39315), (Start: 36 @39342 has 174 MA's), (47, 39366), (54, 39381), (74, 39426), (78, 39438), (102, 39516), (105, 39528), (114, 39552), (118, 39564), (132, 39618),

Gene: Simpliphy_92 Start: 56214, Stop: 56474, Start Num: 50
Candidate Starts for Simpliphy_92:
(Start: 50 @56214 has 134 MA's), (63, 56235), (88, 56310), (107, 56379), (123, 56445),

Gene: SimranZ1_59 Start: 40122, Stop: 40400, Start Num: 36
Candidate Starts for SimranZ1_59:
(30, 40095), (Start: 36 @40122 has 174 MA's), (75, 40206), (79, 40215), (98, 40278), (102, 40293), (105, 40305), (114, 40329), (118, 40341), (132, 40392),

Gene: SirDuracell_93 Start: 55587, Stop: 55847, Start Num: 50
Candidate Starts for SirDuracell_93:
(Start: 50 @55587 has 134 MA's), (63, 55608), (88, 55683), (107, 55752), (123, 55818),

Gene: Skinny_73 Start: 47049, Stop: 47393, Start Num: 28
Candidate Starts for Skinny_73:
(Start: 28 @47049 has 22 MA's), (41, 47100), (77, 47187), (112, 47304), (116, 47316), (120, 47337),

Gene: Skog_114 Start: 46503, Stop: 46823, Start Num: 24
Candidate Starts for Skog_114:
(19, 46470), (Start: 24 @46503 has 2 MA's), (27, 46512), (32, 46521), (Start: 39 @46551 has 2 MA's), (56, 46593), (59, 46596), (98, 46713), (124, 46800),

Gene: Slim_60 Start: 40729, Stop: 41013, Start Num: 36
Candidate Starts for Slim_60:
(30, 40702), (Start: 36 @40729 has 174 MA's), (47, 40753), (54, 40768), (74, 40813), (78, 40825), (102, 40903), (105, 40915), (114, 40939), (118, 40951), (132, 41005),

Gene: SlimJimmy_70 Start: 46604, Stop: 46948, Start Num: 28
Candidate Starts for SlimJimmy_70:
(Start: 28 @46604 has 22 MA's), (41, 46655), (77, 46742), (112, 46859), (116, 46871), (120, 46892),

Gene: Snenia_78 Start: 53795, Stop: 54064, Start Num: 48
Candidate Starts for Snenia_78:
(Start: 48 @53795 has 14 MA's), (Start: 55 @53810 has 5 MA's), (105, 53945), (114, 53987), (123, 54023), (131, 54047),

Gene: Snenia_79 Start: 54061, Stop: 54384, Start Num: 34
Candidate Starts for Snenia_79:
(Start: 34 @54061 has 18 MA's), (40, 54082), (105, 54274), (113, 54310), (123, 54355),

Gene: SophKB_90 Start: 55892, Stop: 56152, Start Num: 50
Candidate Starts for SophKB_90:
(Start: 50 @55892 has 134 MA's), (63, 55913), (88, 55988), (107, 56057), (123, 56123),

Gene: Sotrice96_94 Start: 56480, Stop: 56740, Start Num: 50
Candidate Starts for Sotrice96_94:
(Start: 50 @56480 has 134 MA's), (63, 56501), (88, 56576), (107, 56645), (123, 56711),

Gene: Soul22_65 Start: 41527, Stop: 41811, Start Num: 36
Candidate Starts for Soul22_65:
(30, 41500), (Start: 36 @41527 has 174 MA's), (47, 41551), (54, 41566), (74, 41611), (78, 41623), (102, 41701), (105, 41713), (114, 41737), (118, 41749), (132, 41803),

Gene: Spartacus_61 Start: 40606, Stop: 40887, Start Num: 36
Candidate Starts for Spartacus_61:
(30, 40579), (Start: 36 @40606 has 174 MA's), (47, 40630), (54, 40645), (74, 40690), (78, 40702), (102, 40780), (105, 40792), (114, 40816), (118, 40828), (132, 40879),

Gene: Spikelee_66 Start: 42226, Stop: 42507, Start Num: 36
Candidate Starts for Spikelee_66:
(30, 42199), (Start: 36 @42226 has 174 MA's), (47, 42250), (54, 42265), (74, 42310), (78, 42322), (102, 42400), (105, 42412), (114, 42436), (118, 42448), (132, 42499),

Gene: Spoonbill_56 Start: 38516, Stop: 38794, Start Num: 36
Candidate Starts for Spoonbill_56:
(30, 38489), (Start: 36 @38516 has 174 MA's), (75, 38600), (79, 38609), (98, 38672), (102, 38687), (105, 38699), (114, 38723), (118, 38735), (132, 38786),

Gene: Srilaccoli3_46 Start: 44203, Stop: 43979, Start Num: 58
Candidate Starts for Srilaccoli3_46:
(4, 44605), (Start: 58 @44203 has 2 MA's), (69, 44179),

Gene: StagePhright_7 Start: 5180, Stop: 4923, Start Num: 62
Candidate Starts for StagePhright_7:
(37, 5240), (Start: 62 @5180 has 10 MA's), (98, 5066), (118, 4991), (129, 4946),

Gene: Stank_95 Start: 56873, Stop: 57133, Start Num: 50
Candidate Starts for Stank_95:
(Start: 50 @56873 has 134 MA's), (63, 56894), (88, 56969), (107, 57038), (123, 57104),

Gene: Stap_57 Start: 39317, Stop: 39595, Start Num: 36
Candidate Starts for Stap_57:
(30, 39290), (Start: 36 @39317 has 174 MA's), (75, 39401), (79, 39410), (98, 39473), (102, 39488), (105, 39500), (114, 39524), (118, 39536), (132, 39587),

Gene: Starcevich_59 Start: 40105, Stop: 40383, Start Num: 36
Candidate Starts for Starcevich_59:
(26, 40069), (Start: 36 @40105 has 174 MA's), (47, 40129), (74, 40186), (78, 40198), (102, 40276), (105, 40288), (114, 40312), (118, 40324), (132, 40375),

Gene: Stark_95 Start: 56964, Stop: 57224, Start Num: 50
Candidate Starts for Stark_95:
(Start: 50 @56964 has 134 MA's), (63, 56985), (88, 57060), (107, 57129), (123, 57195),

Gene: StellaBean_91 Start: 56418, Stop: 56678, Start Num: 50
Candidate Starts for StellaBean_91:
(Start: 50 @56418 has 134 MA's), (63, 56439), (88, 56514), (107, 56583), (123, 56649),

Gene: Stellammi_96 Start: 48442, Stop: 48678, Start Num: 55
Candidate Starts for Stellammi_96:
(Start: 55 @48442 has 5 MA's), (95, 48550), (114, 48631), (118, 48643),

Gene: StolenFromERC_96 Start: 56798, Stop: 57058, Start Num: 50
Candidate Starts for StolenFromERC_96:
(Start: 50 @56798 has 134 MA's), (63, 56819), (88, 56894), (107, 56963), (123, 57029),

Gene: StormChicken_95 Start: 57577, Stop: 57837, Start Num: 50
Candidate Starts for StormChicken_95:
(17, 57439), (Start: 50 @57577 has 134 MA's), (63, 57598), (107, 57742), (123, 57808),

Gene: Strokeseat_55 Start: 38052, Stop: 38333, Start Num: 36
Candidate Starts for Strokeseat_55:
(30, 38025), (Start: 36 @38052 has 174 MA's), (47, 38076), (54, 38091), (74, 38136), (78, 38148), (102, 38226), (105, 38238), (114, 38262), (118, 38274), (132, 38325),

Gene: SwagPigglett_64 Start: 42244, Stop: 42525, Start Num: 36
Candidate Starts for SwagPigglett_64:
(30, 42217), (Start: 36 @42244 has 174 MA's), (47, 42268), (54, 42283), (74, 42328), (78, 42340), (102, 42418), (105, 42430), (114, 42454), (118, 42466), (132, 42517),

Gene: TBond007_51 Start: 37450, Stop: 37719, Start Num: 45
Candidate Starts for TBond007_51:
(13, 37210), (Start: 45 @37450 has 14 MA's), (57, 37474), (98, 37594), (114, 37648),

Gene: TBrady12_96 Start: 56634, Stop: 56894, Start Num: 50
Candidate Starts for TBrady12_96:
(Start: 50 @56634 has 134 MA's), (63, 56655), (88, 56730), (107, 56799), (123, 56865),

Gene: TChen_60 Start: 41367, Stop: 41636, Start Num: 42
Candidate Starts for TChen_60:
(25, 41322), (Start: 36 @41358 has 174 MA's), (Start: 42 @41367 has 1 MA's), (72, 41424), (75, 41442), (79, 41451), (98, 41514), (102, 41529), (105, 41541), (114, 41565), (118, 41577), (132, 41628),

Gene: Taj_63 Start: 41748, Stop: 41978, Start Num: 64
Candidate Starts for Taj_63:
(Start: 64 @41748 has 1 MA's), (68, 41757), (102, 41871), (105, 41883), (114, 41907), (118, 41919), (132, 41970),

Gene: Tarkin_92 Start: 56882, Stop: 57142, Start Num: 50
Candidate Starts for Tarkin_92:
(Start: 50 @56882 has 134 MA's), (63, 56903), (88, 56978), (107, 57047), (123, 57113),

Gene: TeamEdward_93 Start: 56783, Stop: 57043, Start Num: 50
Candidate Starts for TeamEdward_93:
(17, 56645), (Start: 50 @56783 has 134 MA's), (63, 56804), (107, 56948), (123, 57014),

Gene: TeardropMSU_89 Start: 55882, Stop: 56142, Start Num: 50
Candidate Starts for TeardropMSU_89:
(Start: 50 @55882 has 134 MA's), (63, 55903), (88, 55978), (107, 56047), (123, 56113),

Gene: Teaspoon_94 Start: 56734, Stop: 56994, Start Num: 50
Candidate Starts for Teaspoon_94:
(Start: 50 @56734 has 134 MA's), (63, 56755), (88, 56830), (107, 56899), (123, 56965),

Gene: Teatealatte_40 Start: 44176, Stop: 43976, Start Num: 66
Candidate Starts for Teatealatte_40:
(Start: 66 @44176 has 10 MA's),

Gene: Teech_40 Start: 43977, Stop: 43777, Start Num: 66
Candidate Starts for Teech_40:
(Start: 66 @43977 has 10 MA's),

Gene: Terminus_96 Start: 57669, Stop: 57929, Start Num: 50
Candidate Starts for Terminus_96:
(Start: 50 @57669 has 134 MA's), (63, 57690), (88, 57765), (107, 57834), (123, 57900),

Gene: ThetaBob_64 Start: 41432, Stop: 41710, Start Num: 36
Candidate Starts for ThetaBob_64:
(25, 41396), (Start: 36 @41432 has 174 MA's), (Start: 42 @41441 has 1 MA's), (72, 41498), (75, 41516), (79, 41525), (98, 41588), (102, 41603), (105, 41615), (114, 41639), (118, 41651), (132, 41702),

Gene: Thimble_95 Start: 56384, Stop: 56644, Start Num: 50
Candidate Starts for Thimble_95:
(Start: 50 @56384 has 134 MA's), (63, 56405), (88, 56480), (107, 56549), (123, 56615),

Gene: ThirteenKH_7 Start: 5168, Stop: 4911, Start Num: 62
Candidate Starts for ThirteenKH_7:
(37, 5228), (Start: 62 @5168 has 10 MA's), (86, 5096), (98, 5054), (118, 4979), (129, 4934),

Gene: Thresher_96 Start: 57744, Stop: 58004, Start Num: 50
Candidate Starts for Thresher_96:
(Start: 50 @57744 has 134 MA's), (63, 57765), (88, 57840), (107, 57909), (123, 57975),

Gene: Tomaszewski_88 Start: 56045, Stop: 56305, Start Num: 50
Candidate Starts for Tomaszewski_88:
(Start: 50 @56045 has 134 MA's), (63, 56066), (88, 56141), (107, 56210), (123, 56276),

Gene: Tootsieroll_60 Start: 39265, Stop: 39549, Start Num: 36
Candidate Starts for Tootsieroll_60:
(30, 39238), (Start: 36 @39265 has 174 MA's), (47, 39289), (54, 39304), (74, 39349), (78, 39361), (102, 39439), (105, 39451), (114, 39475), (118, 39487), (132, 39541),

Gene: Topiatin_67 Start: 42597, Stop: 42878, Start Num: 36
Candidate Starts for Topiatin_67:
(26, 42561), (Start: 36 @42597 has 174 MA's), (47, 42621), (74, 42678), (78, 42690), (102, 42768), (105, 42780), (114, 42804), (118, 42816), (132, 42870),

Gene: Toron_68 Start: 42444, Stop: 42677, Start Num: 63
Candidate Starts for Toron_68:
(63, 42444), (67, 42456), (122, 42621), (126, 42636), (137, 42666),

Gene: Totinger_58 Start: 39195, Stop: 39479, Start Num: 36
Candidate Starts for Totinger_58:
(30, 39168), (Start: 36 @39195 has 174 MA's), (47, 39219), (54, 39234), (74, 39279), (78, 39291), (102, 39369), (105, 39381), (114, 39405), (118, 39417), (132, 39471),

Gene: Toto_91 Start: 57094, Stop: 57354, Start Num: 50
Candidate Starts for Toto_91:
(Start: 50 @57094 has 134 MA's), (63, 57115), (88, 57190), (107, 57259), (123, 57325),

Gene: TpudiCK_72 Start: 46140, Stop: 46484, Start Num: 28
Candidate Starts for TpudiCK_72:
(Start: 28 @46140 has 22 MA's), (41, 46191), (77, 46278), (112, 46395), (116, 46407), (120, 46428),

Gene: Traaww1_89 Start: 55902, Stop: 56162, Start Num: 50
Candidate Starts for Traaww1_89:
(Start: 50 @55902 has 134 MA's), (63, 55923), (88, 55998), (107, 56067), (123, 56133),

Gene: Tredge_40 Start: 44176, Stop: 43976, Start Num: 66
Candidate Starts for Tredge_40:
(Start: 66 @44176 has 10 MA's),

Gene: TriFive_80 Start: 53794, Stop: 54063, Start Num: 48
Candidate Starts for TriFive_80:
(Start: 48 @53794 has 14 MA's), (Start: 55 @53809 has 5 MA's), (105, 53944), (114, 53986), (123, 54022), (131, 54046),

Gene: TriFive_81 Start: 54060, Stop: 54383, Start Num: 34
Candidate Starts for TriFive_81:
(Start: 34 @54060 has 18 MA's), (40, 54081), (113, 54309), (123, 54354),

Gene: TribleTrouble_50 Start: 37335, Stop: 37601, Start Num: 45
Candidate Starts for TribleTrouble_50:
(Start: 45 @37335 has 14 MA's), (57, 37356), (Start: 62 @37362 has 10 MA's), (98, 37476), (108, 37521), (114, 37530),

Gene: TrippleS_7 Start: 5168, Stop: 4911, Start Num: 62
Candidate Starts for TrippleS_7:
(37, 5228), (Start: 62 @5168 has 10 MA's), (86, 5096), (98, 5054), (118, 4979), (129, 4934),

Gene: Trogglehumper_64 Start: 53677, Stop: 53435, Start Num: 62
Candidate Starts for Trogglehumper_64:
(Start: 62 @53677 has 10 MA's), (71, 53653),

Gene: Tuco_94 Start: 57641, Stop: 57901, Start Num: 50
Candidate Starts for Tuco_94:
(Start: 50 @57641 has 134 MA's), (63, 57662), (88, 57737), (107, 57806), (123, 57872),

Gene: TyDawg_70 Start: 46141, Stop: 46485, Start Num: 28
Candidate Starts for TyDawg_70:
(Start: 28 @46141 has 22 MA's), (41, 46192), (77, 46279), (112, 46396), (116, 46408), (120, 46429),

Gene: Ubuntu_75 Start: 48849, Stop: 49157, Start Num: 33
Candidate Starts for Ubuntu_75:
(31, 48843), (Start: 33 @48849 has 24 MA's), (Start: 39 @48876 has 2 MA's), (Start: 50 @48909 has 134 MA's), (89, 49011), (97, 49038), (139, 49149),

Gene: Ukulele_88 Start: 56027, Stop: 56287, Start Num: 50
Candidate Starts for Ukulele_88:
(Start: 50 @56027 has 134 MA's), (63, 56048), (88, 56123), (107, 56192), (123, 56258),

Gene: UncleRicky_58 Start: 40176, Stop: 40460, Start Num: 36

Candidate Starts for UncleRicky_58:
(30, 40149), (Start: 36 @40176 has 174 MA's), (47, 40200), (54, 40215), (74, 40260), (78, 40272), (102, 40350), (105, 40362), (114, 40386), (118, 40398), (132, 40452),

Gene: Unicorn_53 Start: 37175, Stop: 37432, Start Num: 49
Candidate Starts for Unicorn_53:
(Start: 49 @37175 has 6 MA's), (60, 37196), (78, 37250), (98, 37313), (100, 37322), (123, 37400),

Gene: VRedHorse_59 Start: 39252, Stop: 39533, Start Num: 36
Candidate Starts for VRedHorse_59:
(30, 39225), (Start: 36 @39252 has 174 MA's), (47, 39276), (54, 39291), (74, 39336), (78, 39348), (102, 39426), (105, 39438), (114, 39462), (118, 39474), (132, 39525),

Gene: Veteran_56 Start: 38956, Stop: 39237, Start Num: 36
Candidate Starts for Veteran_56:
(30, 38929), (Start: 36 @38956 has 174 MA's), (75, 39040), (79, 39049), (102, 39127), (105, 39139), (114, 39163), (118, 39175), (132, 39229),

Gene: Violac_61 Start: 41322, Stop: 41603, Start Num: 36
Candidate Starts for Violac_61:
(30, 41295), (Start: 36 @41322 has 174 MA's), (47, 41346), (54, 41361), (74, 41406), (78, 41418), (102, 41496), (105, 41508), (114, 41532), (118, 41544), (132, 41595),

Gene: Vivum_60 Start: 40254, Stop: 40535, Start Num: 36
Candidate Starts for Vivum_60:
(30, 40227), (Start: 36 @40254 has 174 MA's), (47, 40278), (54, 40293), (74, 40338), (78, 40350), (102, 40428), (105, 40440), (114, 40464), (118, 40476), (132, 40527),

Gene: WST1_43 Start: 28947, Stop: 29189, Start Num: 67
Candidate Starts for WST1_43:
(Start: 61 @28932 has 1 MA's), (67, 28947), (85, 29007), (92, 29025),

Gene: Webster2_75 Start: 48849, Stop: 49157, Start Num: 33
Candidate Starts for Webster2_75:
(31, 48843), (Start: 33 @48849 has 24 MA's), (Start: 39 @48876 has 2 MA's), (Start: 50 @48909 has 134 MA's), (89, 49011), (97, 49038), (139, 49149),

Gene: Wee_63 Start: 41773, Stop: 42054, Start Num: 36
Candidate Starts for Wee_63:
(Start: 36 @41773 has 174 MA's), (47, 41797), (54, 41812), (74, 41857), (78, 41869), (102, 41947), (105, 41959), (114, 41983), (118, 41995), (132, 42046),

Gene: Weirdo19_70 Start: 45292, Stop: 45699, Start Num: 18
Candidate Starts for Weirdo19_70:
(18, 45292), (Start: 35 @45364 has 1 MA's), (91, 45514), (97, 45532), (101, 45550),

Gene: Whirlwind_81 Start: 54302, Stop: 54622, Start Num: 34
Candidate Starts for Whirlwind_81:
(Start: 34 @54302 has 18 MA's), (53, 54356), (123, 54593),

Gene: Whirlwind_80 Start: 53994, Stop: 54305, Start Num: 48
Candidate Starts for Whirlwind_80:

(Start: 48 @53994 has 14 MA's), (Start: 55 @54009 has 5 MA's), (96, 54120), (105, 54156), (140, 54285),

Gene: Whouxphf_56 Start: 39848, Stop: 40129, Start Num: 36
Candidate Starts for Whouxphf_56:
(30, 39821), (Start: 36 @39848 has 174 MA's), (47, 39872), (54, 39887), (74, 39932), (78, 39944), (102, 40022), (105, 40034), (114, 40058), (118, 40070), (132, 40121),

Gene: Wiggin_95 Start: 56303, Stop: 56563, Start Num: 50
Candidate Starts for Wiggin_95:
(Start: 50 @56303 has 134 MA's), (63, 56324), (88, 56399), (107, 56468), (123, 56534),

Gene: Wildcat_81 Start: 51150, Stop: 51488, Start Num: 29
Candidate Starts for Wildcat_81:
(Start: 28 @51147 has 22 MA's), (Start: 29 @51150 has 5 MA's), (73, 51264), (75, 51276), (81, 51285), (94, 51321), (121, 51438),

Gene: WillSterrel_60 Start: 41723, Stop: 42004, Start Num: 36
Candidate Starts for WillSterrel_60:
(30, 41696), (Start: 36 @41723 has 174 MA's), (47, 41747), (54, 41762), (74, 41807), (78, 41819), (102, 41897), (105, 41909), (114, 41933), (118, 41945), (132, 41996),

Gene: Willez_88 Start: 54914, Stop: 55174, Start Num: 50
Candidate Starts for Willez_88:
(Start: 50 @54914 has 134 MA's), (63, 54935), (88, 55010), (107, 55079), (123, 55145),

Gene: Wishmaker_68 Start: 48876, Stop: 49157, Start Num: 39
Candidate Starts for Wishmaker_68:
(31, 48843), (Start: 33 @48849 has 24 MA's), (Start: 39 @48876 has 2 MA's), (Start: 50 @48909 has 134 MA's), (89, 49011), (97, 49038), (139, 49149),

Gene: Xandras_92 Start: 56126, Stop: 56386, Start Num: 50
Candidate Starts for Xandras_92:
(Start: 50 @56126 has 134 MA's), (63, 56147), (88, 56222), (107, 56291), (123, 56357),

Gene: Yafa_7 Start: 5183, Stop: 4926, Start Num: 62
Candidate Starts for Yafa_7:
(37, 5243), (Start: 62 @5183 has 10 MA's), (86, 5111), (98, 5069), (118, 4994), (129, 4949),

Gene: YassJohnny_90 Start: 55767, Stop: 56027, Start Num: 50
Candidate Starts for YassJohnny_90:
(Start: 50 @55767 has 134 MA's), (63, 55788), (88, 55863), (107, 55932), (123, 55998),

Gene: Yorick_58 Start: 40310, Stop: 40591, Start Num: 36
Candidate Starts for Yorick_58:
(30, 40283), (Start: 36 @40310 has 174 MA's), (47, 40334), (54, 40349), (74, 40394), (78, 40406), (102, 40484), (105, 40496), (114, 40520), (118, 40532), (132, 40583),

Gene: Yoshi_72 Start: 41696, Stop: 41974, Start Num: 36
Candidate Starts for Yoshi_72:
(25, 41660), (Start: 36 @41696 has 174 MA's), (Start: 42 @41705 has 1 MA's), (72, 41762), (75, 41780), (79, 41789), (98, 41852), (102, 41867), (105, 41879), (114, 41903), (118, 41915), (132, 41966),

Gene: Youngblood_96 Start: 57596, Stop: 57856, Start Num: 50
Candidate Starts for Youngblood_96:
(Start: 50 @57596 has 134 MA's), (63, 57617), (88, 57692), (107, 57761), (123, 57827),

Gene: Zapner_72 Start: 41849, Stop: 42133, Start Num: 36
Candidate Starts for Zapner_72:
(30, 41822), (Start: 36 @41849 has 174 MA's), (47, 41873), (54, 41888), (74, 41933), (78, 41945), (102, 42023), (105, 42035), (114, 42059), (118, 42071), (132, 42125),

Gene: ZenTime222_40 Start: 31446, Stop: 31703, Start Num: 45
Candidate Starts for ZenTime222_40:
(11, 31170), (12, 31191), (Start: 45 @31446 has 14 MA's), (78, 31530), (105, 31620),

Gene: Zerg_59 Start: 39720, Stop: 40004, Start Num: 36
Candidate Starts for Zerg_59:
(30, 39693), (Start: 36 @39720 has 174 MA's), (47, 39744), (54, 39759), (74, 39804), (78, 39816), (102, 39894), (105, 39906), (114, 39930), (118, 39942), (132, 39996),

Gene: Zizzle_63 Start: 41563, Stop: 41847, Start Num: 36
Candidate Starts for Zizzle_63:
(30, 41536), (Start: 36 @41563 has 174 MA's), (47, 41587), (54, 41602), (74, 41647), (78, 41659), (102, 41737), (105, 41749), (114, 41773), (118, 41785), (132, 41839),

Gene: xkcd_96 Start: 57780, Stop: 58040, Start Num: 50
Candidate Starts for xkcd_96:
(Start: 50 @57780 has 134 MA's), (63, 57801), (88, 57876), (107, 57945), (123, 58011),