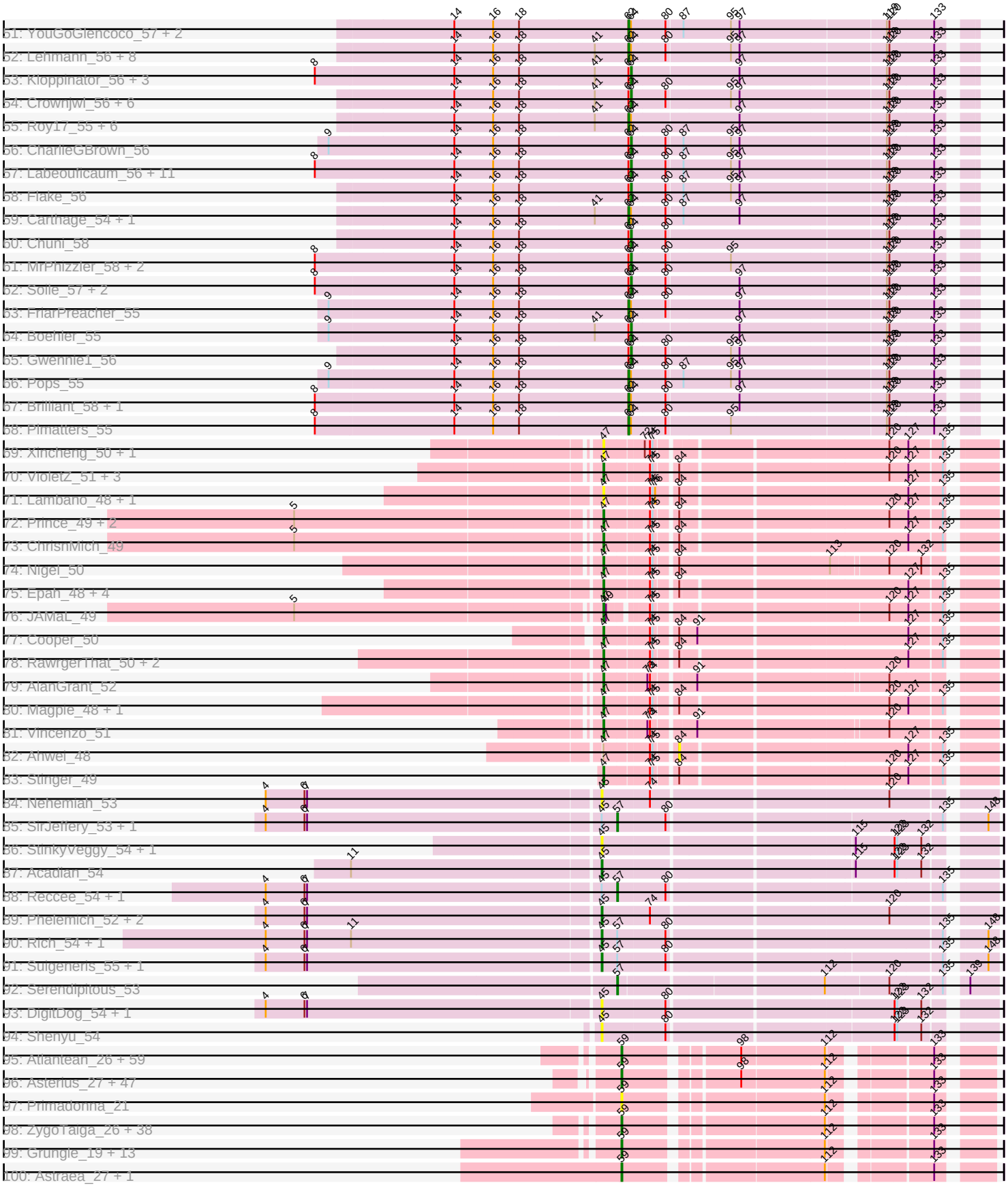
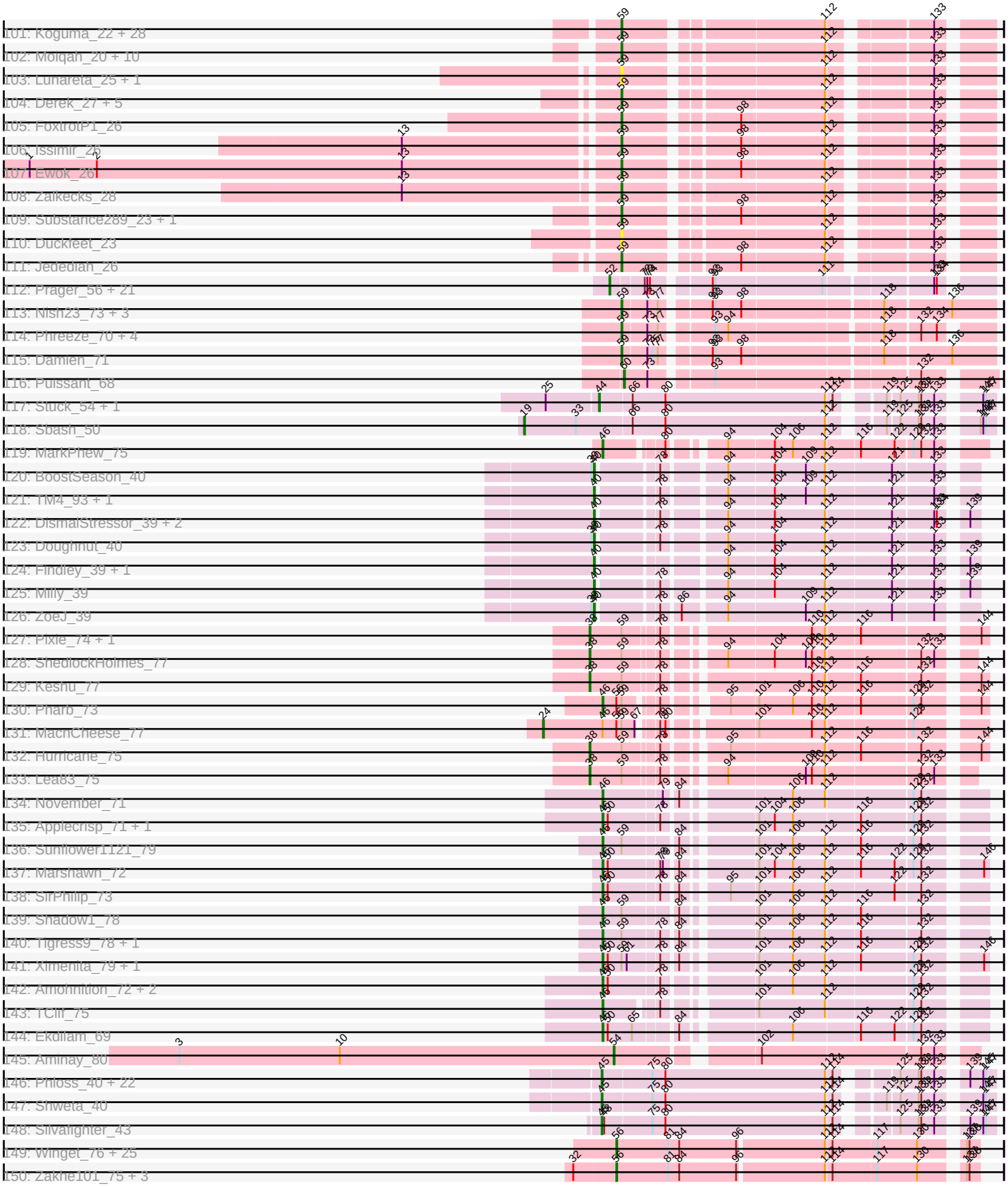
# Pham 339140


1: DarthPhader_38
2: Baehexic_36 + 12
3: KingCyrus_38 + 14
4: GaugeLDP_37
5: LionsBait_35
6: WeiHuaDA_39
7: HippoHollow_35
8: Agape74_37
9: Turbido_36
10: JoshKayV_37
11: Terrific_37
12: Lokk_39
13: Larenn_37 + 5
14: BobSwaget_38
15: Malec_38
16: HarryHoudini_38
17: Trooper_37
18: Acolyte_72
19: Miko_39 + 1
20: DudeLittle_35 + 1
21: QueenB2_36
22: Fameo_36
23: TarsusIV_35
24: Charm_35 + 1
25: Phrappuccino_28 + 1
26: JacoRen57_55
27: Individualmind_55
28: Cuke_52
29: Fowlmouth_56 + 1
30: Mao1_56
31: Dori_57
32: Mask_57
33: JohnLord_60
34: Weirdo19_40
35: JustASign_40
36: IdentityCrisis_40 + 1
37: Cornbread_56 + 65
38: Karn_56 + 2
39: JakeO_56 + 24
40: Hartsy_57 + 61
41: Frankicide_55 + 11
42: CamL_56 + 22
43: Jiminy_56 + 4
44: Grand2040_56 + 10
45: BlueHusk_57 + 16
46: LeMonet_58 + 4
47: Coletti_57 + 6
48: ImtiyazSitta_57 + 17
49: Daka_58 + 1
50: Valjean_55 + 4

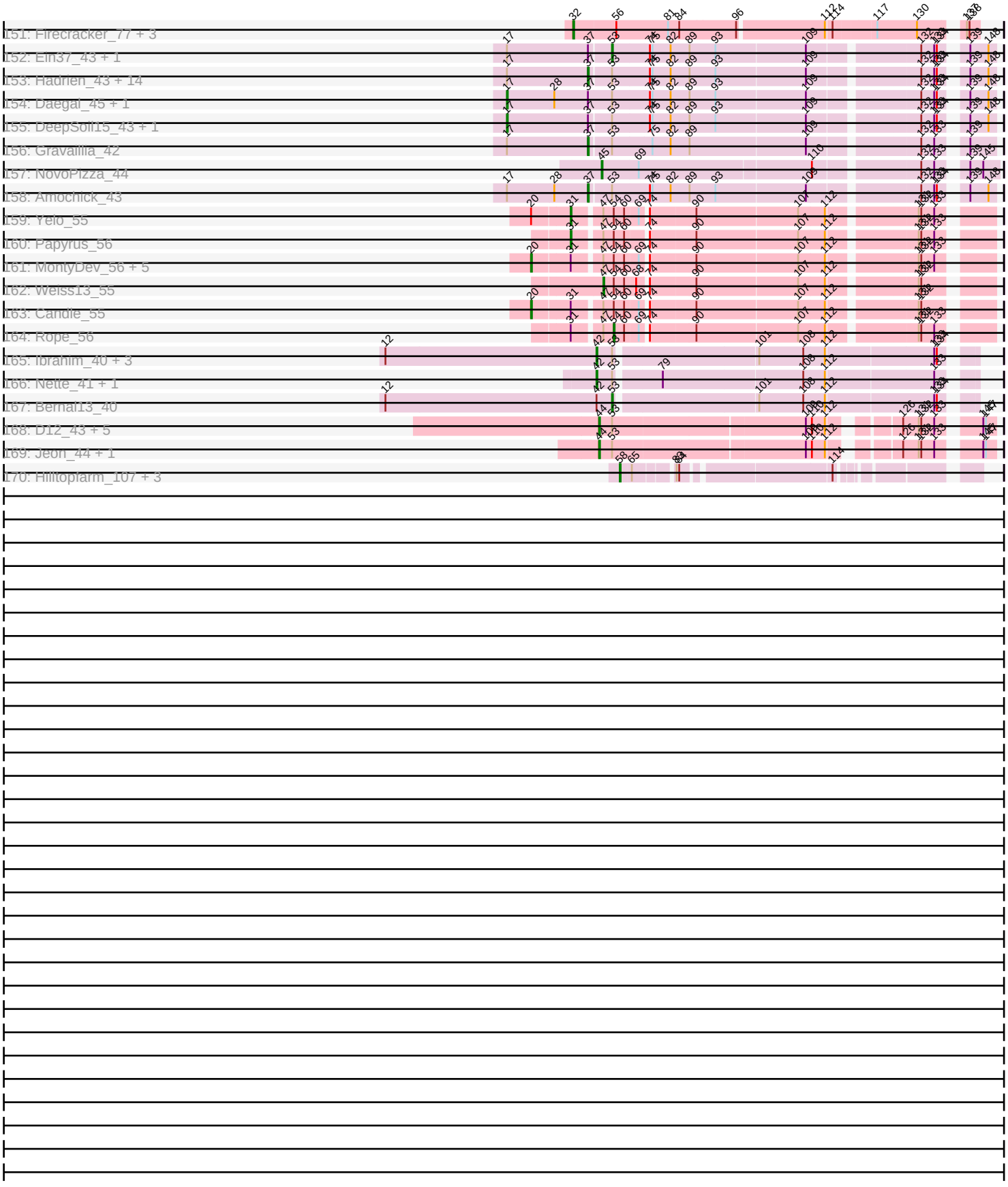
# Pham 339140


51: YouGoGlencoco_57 + 2
52: Lehmann_56 + 8
53: Kloppinator_56 + 3
54: Crownjwl_56 + 6
55: Roy17_55 + 6
56: CharlieGBrown_56
57: Labeoulicaum_56 + 11
58: Flake_56
59: Carthage_54 + 1
60: Chuni_58
61: MrPhizzler_58 + 2
62: Solle_57 + 2
63: FriarPreacher_55
64: Boehler_55
65: Gwennie1_56
66: Pops_55
67: Brilliant_58 + 1
68: Pimatters_55
69: Xincheng_50 + 1
70: Violetz_51 + 3
71: Lambano_48 + 1
72: Prince_49 + 2
73: ChrisMich_49
74: Nigel_50
75: Epan_48 + 4
76: JAMaL_49
77: Cooper_50
78: Rawrgerthat_50 + 2
79: AlanGrant_52
80: Magpie_48 + 1
81: Vincenzo_51
82: Anwei_48
83: Stinger_49
84: Nehemiah_53
85: SirJeffery_53 + 1
86: StinkyVeggy_54 + 1
87: Acadian_54
88: Reccee_54 + 1
89: Phelemich_52 + 2
90: Rich_54 + 1
91: Suigeneris_55 + 1
92: Serendipitous_53
93: DigitDog_54 + 1
94: Shenyu_54
95: Atlantean_26 + 59
96: Asterius_27 + 47
97: Primadonna_21
98: ZygoTaiga_26 + 38
99: Grungie_19 + 13
100: Astraea_27 + 1

# Pham 339140


101: Koguma_22 + 28
102: Molqah_20 + 10
103: Lunareta_25 + 1
104: Derek_27 + 5
105: FoxtrotP1_26
106: Issimir_26
107: Ewok_26
108: Zalkecks_28
109: Substance289_23 + 1
110: Duckfeet_23
111: Jedediah_26
112: Prager_56 + 21
113: Nish23_73 + 3
114: Phreeze_70 + 4
115: Damien_71
116: Puissant_68
117: Stuck_54 + 1
118: Sbash_50
119: MarkPhew_75
120: BoostSeason_40
121: TM4_93 + 1
122: DismalStressor_39 + 2
123: Doughnut_40
124: Findley_39 + 1
125: Milly_39
126: ZoeJ_39
127: Pixie_74 + 1
128: SherlockHolmes_77
129: Keshu_77
130: Pharb_73
131: MacnCheese_77
132: Hurricane_75
133: Lea83_75
134: November_71
135: Applecrisp_71 + 1
136: Sunflower1121_79
137: Marshawn_72
138: SirPhilip_73
139: Shadow1_78
140: Tigress9_78 + 1
141: Ximenita_79 + 1
142: Ammunition_72 + 2
143: TCM_75
144: Ekdilam_69
145: Aminay_80
146: Phloss_40 + 22
147: Shweta_40
148: Silvafighter_43
149: Winget_76 + 25
150: Zakhe101_75 + 3

# Pham 339140


151: Firecracker_77 + 3
152: Ein37_43 + 1
153: Hadrien_43 + 14
154: Daegal_45 + 1
155: DeepSoil15_43 + 1
156: Gravalilla_42
157: NovoPizza_44
158: Amochick_43
159: Yelo_55
160: Papyrus_56
161: MontyDev_56 + 5
162: Weiss13_55
163: Candle_55
164: Rope_56
165: Ibrahim_40 + 3
166: Nette_41 + 1
167: Bernal13_40
168: D12_43 + 5
169: Jeon_44 + 1
170: Hilltopfarm_107 + 3

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 339140 Report

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

Pham number 339140 has 848 members, 84 are drafts.

Phages represented in each track:
• Track 1 : DarthPhader_38
• Track 2 : Baehexic_36, Gratitude_37, Sknot_36, MiculUcigas_36, Centaur_37, WideWale_37, Drake55_38, Piro94_36, Updawg_37, Equemioh13_37, Bugsy_38, Flare16_36, NaSiaTalie_36
• Track 3 : KingCyrus_38, ChipMunk_38, SnapTap_36, Crucio_36, FiringLine_36, QueenBeesly_36, EvilGenius_38, Georgie2_37, Anselm_37, Power_35, SemperFi_37, AbbyPaige_37, Whabigail7_36, SweetiePie_36, Dalmatian_37
• Track 4 : GaugeLDP_37
• Track 5 : LionsBait_35
• Track 6 : WeiHuaDA_39
• Track 7 : HippoHollow_35
• Track 8 : Agape74_37
• Track 9 : Turbido_36
• Track 10 : JoshKayV_37
• Track 11 : Terrific_37
• Track 12 : Lokk_39
• Track 13 : Larenn_37, Dignity_37, Jerm_37, Leviathan_37, LilTurb_36, Smeagan_38
• Track 14 : BobSwaget_38
• Track 15 : Malec_38
• Track 16 : HarryHoudini_38
• Track 17 : Trooper_37
• Track 18 : Acolyte_72
• Track 19 : Miko_39, Rachaly_39
• Track 20 : DudeLittle_35, Retro23_37
• Track 21 : QueenB2_36
• Track 22 : Fameo_36
• Track 23 : TarsusIV_35
• Track 24 : Charm_35, DreamTeam1_35
• Track 25 : Phrappuccino_28, Settecandela_28
• Track 26 : JacoRen57_55
• Track 27 : Indlulamithi_55
• Track 28 : Cuke_52
• Track 29 : Fowlmouth_56, MrMiyagi_55
• Track 30 : Mao1_56
• Track 31 : Dori_57
• Track 32 : Mask_57

• Track 33 : JohnLord_60
• Track 34 : Weirdo19_40
• Track 35 : JustASigh_40
• Track 36 : IdentityCrisis_40, WST1_41
• Track 37 : Cornbread_56, SallyH_57, ShadowBud_57, Aonishiki_57, Dati_56, Eugenia_56, Mutante_56, Placalicious_56, IsaacEli_57, Badfish_57, Orwigg_56, Mesmerelda_55, Melc17_56, Andre_58, Burr_56, ABU_57, Magic8_57, TooFast2Furius_56, Mulan_56, Weher20_56, True_55, Jesabah_57, DoesntMatter_54, Mcshane_55, Swish_57, Fang_57, Nicole21_57, FugateOSU_56, Beaglebox_56, Slatt_57, Waterdiva_56, Freya_54, Skippy_57, Selr12_56, Quisquiliae_57, Ricotta_55, BoogieWoogie_58, ProfessorX_55, Iridessa_57, PallasAthena_56, Olak_55, FleetyMac_56, AngelCake_57, PinheadLarry_57, Oosterbaan_56, FluffyNinja_57, JDog_55, PhrodoBaggins_57, Adriana_57, Pacifista_55, Orion_57, Scoot17C_57, Cher_56, Cobra_57, Usavi_56, Squiggle_57, Murdoc_55, HenryJackson_56, PG1_57, Orfeu_54, Nyala_55, Dice_55, Chah_58, Gwilliam_57, Sigman_57, Tomlarah_57
• Track 38 : Karn_56, Struggle_56, Doddsville_56
• Track 39 : JakeO_56, Apizium_55, RedMaple_57, Nova1_57, Septica_55, Fozzie_55, Cornobble_55, TallGrassMM_56, Surely_56, Jbug01_56, Newman_55, Cannibal_56, Squid_56, Taraxa_57, Azuria_54, TomBombadil_56, Inverness_55, Telesworld_54, Aleia_57, SassyCat97_55, Veritas_57, Vectra_57, Solosis_55, OSmaximus_57, Kiwot_58
• Track 40 : Hartsy_57, DolOn_60, Piglet_0056, Altwerkus_54, Lumine_57, Fringe_60, ThreeOh3D2_57, Kahve_56, HighStump_58, Legolas_58, Haimas_55, Pherdinand_57, Etaye_56, Toni_55, Pipsqueak_55, Hertubise_56, Kikipoo_57, Morty_57, Serpentine_0056, Nacho_0057, KingTut_48, Vista_55, Inchworm_58, Bishoperium_56, BlackStallion_57, Windsor_56, Phipps_56, Jillium_56, Gareth_56, UncleHowie_55, Gophee_57, Vaticameos_53, JacAttac_57, LeeLot_56, Happabalu_56, Longacauda_57, Mecca_56, CampRoach_58, Lego3393_55, Kimbrough_57, Craff_59, Anderson_57, Matalotodo_55, Bluephacebaby_56, Zelda_56, SirBeauregard_57, Buckeye_55, Thora_56, LasagnaCat_58, Scrick_57, Katniss_57, Chaelin_57, Megamind20_57, Plata_56, HogWash_56, PhatCats2014_57, Harvey_55, Megatron_57, NiaNia_59, Yoshand_57, SilverBell_55, DonSanchon_54
• Track 41 : Frankicide_55, KlimbOn_55, Mikota_54, HSavage_55, Chipette_57, MiniBoss_54, AbsoluteMadLad_55, RedRaider89_56, Dingo_54, Sheila_54, Colbert_54, Phamished_57
• Track 42 : CamL_56, Mosaic_55, MRabcd_55, Sophia_55, Cosmolli16_57, Lulwa_54, Chorkpop_56, Daffy_56, Childish_56, Riggan_57, Lasso_56, Potter_55, Mana_55, QueenBeane_56, Puhltonio_56, Kwadwo_55, Samaymay_56, Haleema_55, LostAndPhound_56, Vortex_56, Banjo_55, Xavier_55, Giraffe_57
• Track 43 : Jiminy_56, Jiraiya_56, Duggie_56, Schueller_56, Thunderbird_55
• Track 44 : Grand2040_56, Serendipity_56, Timmi_55, MitKao_56, Maru_56, FremontTroll_56, Mesh1_57, Iridoclysis_57, Morgushi_56, Podrick_54, Held_56
• Track 45 : BlueHusk_57, Suffolk_54, Soto_54, Riverton_55, CheetO_55, Horchata_55, Basato_56, SDcharge11_55, GreenChile_57, KLucky39_54, OneBrain_57, Hekos_53, OliverWalter_55, Gyarad_0054, Roliet_54, Chunky_54, KingVeVeVe_54
• Track 46 : LeiMonet_58, DuchessDung_57, Hetaeria_55, UAch1_55, ElvisPhasley_57
• Track 47 : Coletti_57, Virgeve_55, Keitherie_57, PhatLouie_57, Hamish_55, Charles1_57, Numberten_55

• Track 48 : ImtiyazSitla_57, Maskar_57, Ashraf_57, Emiris_58, JangoPhett_56, PhrankReynolds_55, Oline_56, Mag7_56, Kailash_56, Wallhey_56, Pinkman_55, MelsMeow_56, Durga_58, GeneCoco_56, Trypo_58, Salazzle_57, BatteryCK_56, Nehme_55
• Track 49 : Daka_58, DirtJuice_57
• Track 50 : Valjean_55, Zaider_56, Olive_55, EmpTee_55, Spartan300_55
• Track 51 : YouGoGlencoco_57, LemonSlice_57, Larson_58
• Track 52 : Lehmann_56, Roscoe_56, Aelin_55, Manad_55, Robyn_55, Tooj_54, EmGer13_56, Vaishali24_54, Triad_56
• Track 53 : Kloppinator_56, BlacksBerry_55, Chute_57, Swiphy_57
• Track 54 : Crownjwl_56, Antonia_55, Vivaldi_57, Schadenfreude_55, Lopsy_53, AltPhacts_55, Eremos_55
• Track 55 : Roy17_55, Dione_54, Phareon_55, LuckyMarjie_54, Lulumae_54, Phunky_55, Nathan_57
• Track 56 : CharlieGBrown_56
• Track 57 : Labeouficaum_56, Derpp_55, Virapocalypse_57, Hocus_56, MichaelPhcott_56, PhenghisKhan_56, Zonia_57, Caspiboi_56, TyrionL_56, Kwksand96_56, Phergie_57, Phleuron_56
• Track 58 : Flake_56
• Track 59 : Carthage_54, Prickles_57
• Track 60 : Chuni_58
• Track 61 : MrPhizzler_58, DaddyDaniels_58, Khan1_56
• Track 62 : Soile_57, DelRivs_55, Simielle_55
• Track 63 : FriarPreacher_55
• Track 64 : Boehler_55
• Track 65 : Gwennie1_56
• Track 66 : Pops_55
• Track 67 : Brilliant_58, Omniscient_57
• Track 68 : Plmatters_55
• Track 69 : Xincheng_50, JaguarMi_51
• Track 70 : VioletZ_51, Hydro_49, Austelle_50, Mudslide_49
• Track 71 : Lambano_48, Hally898_48
• Track 72 : Prince_49, Apex_50, Lolalove_50
• Track 73 : ChrisnMich_49
• Track 74 : Nigel_50
• Track 75 : Epah_48, GinPorsche_49, Antihero_48, Nanao_48, Poster_48
• Track 76 : JAMaL_49
• Track 77 : Cooper_50
• Track 78 : RawrgerThat_50, LittleDigger_48, Renkei_48
• Track 79 : AlanGrant_52
• Track 80 : Magpie_48, Fanaw_48
• Track 81 : Vincenzo_51
• Track 82 : Ahwei_48
• Track 83 : Stinger_49
• Track 84 : Nehemiah_53
• Track 85 : SirJeffery_53, EastView9101_53
• Track 86 : StinkyVeggy_54, KarasumaRum_54
• Track 87 : Acadian_54
• Track 88 : Reccee_54, Rita130_53
• Track 89 : Phelemich_52, Mysterious_52, Reprobate_53
• Track 90 : Rich_54, Baee_55
• Track 91 : Suigeneris_55, Donny_55
• Track 92 : Serendipitous_53

• Track 93 : DigitDog_54, Nangang_54
• Track 94 : Shenyu_54
• Track 95 : Atlantean_26, LookingGlass_29, Jezreel_25, Jemmno_26, Phlegm_28, SmallFry_26, Phusco_26, InigoMontoya_27, ValleyTerrace_26, ShiaLabeouf_26, Mikro_24, SilverDipper_27, Specks_31, Rahel_26, Essence_25, Momo_25, DTDevon_27, Guwapp_26, ArcherS7_25, SiwenD96_27, Janiyra_26, Gamgam_26, Capablanca_28, Pivoine_26, CindyLou_26, Littleton_26, Chomp_26, BeanWater_22, Ghost_26, IkeLoa_22, Adlitam_26, Amataga_26, Patter_26, Pier_28, InterFolia_33, Latch_26, Fongie_26, Kamryn_26, YoungMoneyMata_26, Matsumoto_25, Shnickers_26, Jaygup_26, Dessert_27, Tortoise16_25, StephanieG_26, GlutenPhree_27, LifeSavor_27, Bangla1971_25, Ading_26, Tyke_28, LolaVinca_29, DirtMonster_25, Dandelion_30, Quasimodo_26, Spec_26, Domi_21, Audrick_28, Labradorite_27, Ablatia_25, Naija_26
• Track 96 : Asterius_27, PurduePete_25, Cleatunium_22, Burrough_26, Gabriel_26, BigCity_30, Blubba_20, Nappy_27, Naval22_28, BackyardAgain_23, Wally_25, Colt_19, I3_28, Bigswole_32, GoldenSnow_31, EggyFarm_30, PharkleMinkus_32, Melpomini_25, Morizzled23_25, Concombre_25, Caravan_24, Pio_29, SoilZilla_23, LordLeafolot_32, Zeenon_28, JustHall_25, Bxz1_27, Tainan_31, DrPhinkDaddy_26, Puhon_31, Bipolarisk_25, Cane17_19, Megamind_26, Grasshills_30, Rocha_24, Maguvora_32, JayJay_29, Napoleon13_25, SrishMeg2525_25, Spud_28, Bonray_26, NuevoMundo_29, Demodog_24, Breeniome_26, JigglyPuff_26, Mangeria_29, Catera_24, FrayBell_32
• Track 97 : Primadonna_21
• Track 98 : ZygoTaiga_26, Norm_26, Izajani_27, MoMoMixon_27, YemiJoy2021_27, Drazdys_26, SVoro_25, Darko_25, Salacia_28, Willis_26, BananaFence_27, Pleione_28, Ava3_27, Loanshark_26, NedWong_27, Shrimp_26, Iota_23, Daffodil_28, Nidhogg_27, Bread_27, Erdmann_27, EasyJones_25, OrediggerDelux_28, Rizal_24, ParkTD_25, Bowman_27, Teardrop_25, EmToTheThree_29, Yucca_26, Ronan_21, Delilah_26, StubbySaigey_25, TinyTim_26, FudgeTart_27, Cali_26, Roots515_26, Gizmo_28, Maby2021_27, MikeLiesIn_26
• Track 99 : Grungle_19, BobaPhatt_26, Halldule_22, Lethe_25, Fixie_22, Belieber_22, Shaqnato_22, LRRHood_23, ScottMcG_26, Lukilu_19, McGee_25, Bezza_20, Maturis_26, Blackdragon_21
• Track 100 : Astraea_27, Pinkcreek_18
• Track 101 : Koguma_22, ChickenPhender_25, Cactojaque_23, BadAgartude_27, QBert_24, LinStu_26, Kboogie_26, Blackbrain_24, ET08_21, Rabinovish_25, Sauce_27, JPickles_24, Sprinklers_26, Babyland_25, DeejaClivia_22, JulietS_21, Turret_24, Phox_25, Basquiat_25, ChaylaJr_25, Fludd_25, Yassified_23, Chargie21_25, CharlieB_26, Dietrick_21, Trinitium_25, Sebata_26, EmmaElysia_24, ErnieJ_27
• Track 102 : Moiqah_20, Shelob_28, Jessibeth14_25, Alice_21, McWolfish_25, Delylah_27, Khaleesi_25, Stubby_24, Moby_20, Flabslab_27, Lee7_28
• Track 103 : Lunareta_25, Montpel_25
• Track 104 : Derek_27, Shifa_23, RoMag_21, Pupusa_33, HyRo_25, NoodleTree_25
• Track 105 : FoxtrotP1_26
• Track 106 : Issimir_26
• Track 107 : Ewok_26
• Track 108 : Zalkecks_28
• Track 109 : Substance289_23, Ngannou_24
• Track 110 : Duckfeet_23
• Track 111 : Jedediah_26

• Track 112 : Prager_56, Giuseppe_57, Adjutor_55, PLot_56, SirHarley_57, Chill_58, Erk16_55, PBI1_53, WaldoWhy_58, KandZ_55, Butterscotch_55, Delton_57, Penelope2018_56, Visconti_57, Troll4_56, BigMama_54, SuperheroCarly_56, Gumball_55, Helpful_59, Thoth_56, Mopey_57, Nova_55
• Track 113 : Nish23_73, Cborch11_73, Konstantine_75, Megatron06_72
• Track 114 : Phreeze_70, Beckerton_70, Oaker_71, Thumb_72, BobtimousPrime_74
• Track 115 : Damien_71
• Track 116 : Puissant_68
• Track 117 : Stuck_54, Bluvara_47
• Track 118 : Sbash_50
• Track 119 : MarkPhew_75
• Track 120 : BoostSeason_40
• Track 121 : TM4_93, Mufasa_40
• Track 122 : DismalStressor_39, Marcoliusprime_39, DismalFunk_39
• Track 123 : Doughnut_40
• Track 124 : Findley_39, Strobilo_39
• Track 125 : Milly_39
• Track 126 : ZoeJ_39
• Track 127 : Pixie_74, TBond007_71
• Track 128 : ShedlockHolmes_77
• Track 129 : Keshu_77
• Track 130 : Pharb_73
• Track 131 : MacnCheese_77
• Track 132 : Hurricane_75
• Track 133 : Lea83_75
• Track 134 : November_71
• Track 135 : Applecrisp_71, Ellie_70
• Track 136 : Sunflower1121_79
• Track 137 : Marshawn_72
• Track 138 : SirPhilip_73
• Track 139 : Shadow1_78
• Track 140 : Tigress9_78, Krueger_78
• Track 141 : Ximenita_79, Syra333_77
• Track 142 : Amohnition_72, Hammy_72, DarthP_72
• Track 143 : TClif_75
• Track 144 : Ekdilam_69
• Track 145 : Aminay_80
• Track 146 : Phloss_40, Tortoise12_41, Pipsqueaks_42, Smurph_42, Melville_45, Jamie19_40, Parmesanjohn_42, SpongeBob_40, Carcharodon_42, Gex_42, Fulbright_41, Magsby_42, Scitech_39, Xerxes_42, Tapioca_44, Panchino_39, Andies_40, Duplicity_42, Snekmaggedon_40, Schnauzer_43, Tessdabest_43, Phrann_44, Chewbacca_44
• Track 147 : Shweta_40
• Track 148 : Silvafighter_43
• Track 149 : Winget_76, Blessica_76, Ryadel_79, MadKillah_77, Bora_73, SchoolBus_75, JangDynasty_75, YoyoKar_73, Vorrps_76, TelAviv_72, Idergollasper_75, Zebo_75, FoulBall_76, Schuy_77, Imara_76, Krili_75, Murai_76, Vagabond_76, Mori_76, NiebruSaylor_75, Wogge42_75, Catdawg_75, Alkhayr_76, Shida_75, KingPhillip3_75, Familton_76
• Track 150 : Zakhe101_75, YungJamal_80, Smooch_78, Wildflower_76
• Track 151 : Firecracker_77, Corndog_78, Dylan_76, Ashwin_77
• Track 152 : Ein37_43, Webster2_43

• Track 153 : Hadrien_43, Ubuntu_43, Dewey_41, Hail_41, Amymech_43, Luke_43, Luna22_41, LilHazelnut_43, OBUpride_43, HH92_42, Giles_41, BloominB_42, Forge_41, Evanesce_42, Kinbote_43
• Track 154 : Daegal_45, Gancho_42
• Track 155 : DeepSoil15_43, Wishmaker_41
• Track 156 : Gravaillia_42
• Track 157 : NovoPizza_44
• Track 158 : Amochick_43
• Track 159 : Yelo_55
• Track 160 : Papyrus_56
• Track 161 : MontyDev_56, Nilo_57, Gimesa_58, Riparian_57, Zenon_56, Send513_56
• Track 162 : Weiss13_55
• Track 163 : Candle_55
• Track 164 : Rope_56
• Track 165 : Ibrahim_40, ZenTime222_39, Nairb_39, RonRayGun_40
• Track 166 : Nette_41, Mendokysei_38
• Track 167 : Bernal13_40
• Track 168 : D12_43, Megabear_44, Taptic_44, Cepens_44, Argie_45, PR_44
• Track 169 : Jeon_44, GodPhather_45
• Track 170 : Hilltopfarm_107, AuntGwenStacy_104, Faiyaz_105, Typha_103

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

The start number called the most often in the published annotations is 59, it was called in 200 of the 764 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ablatia_25, Ading_26, Adlitam_26, Alice_21, Amataga_26, ArcherS7_25, Asterius_27, Astraea_27, Atlantean_26, Audrick_28, Ava3_27, Babyland_25, BackyardAgain_23, BadAgartude_27, BananaFence_27, Bangla1971_25, Basquiat_25, BeanWater_22, Beckerton_70, Belieber_22, Bezza_20, BigCity_30, Bigswole_32, Bipolarisk_25, Blackbrain_24, Blackdragon_21, Blubba_20, BobaPhatt_26, BobtimousPrime_74, Bonray_26, Bowman_27, Bread_27, Breeniome_26, Burrough_26, Bxz1_27, Cactojaque_23, Cali_26, Cane17_19, Capablanca_28, Caravan_24, Catera_24, Cborch11_73, Chargie21_25, CharlieB_26, ChaylaJr_25, ChickenPhender_25, Chomp_26, CindyLou_26, Cleatunium_22, Colt_19, Concombre_25, DTDevon_27, Daffodil_28, Damien_71, Dandelion_30, Darko_25, DeejaClivia_22, Delilah_26, Delylah_27, Demodog_24, Derek_27, Dessert_27, Dietrick_21, DirtMonster_25, Domi_21, DrPhinkDaddy_26, Drazdys_26, Duckfeet_23, ET08_21, EasyJones_25, EggyFarm_30, EmToTheThree_29, EmmaElysia_24, Erdmann_27, ErnieJ_27, Essence_25, Ewok_26, Fixie_22, Flabslab_27, Fludd_25, Fongie_26, FoxtrotP1_26, FrayBell_32, FudgeTart_27, Gabriel_26, Gamgam_26, Ghost_26, Gizmo_28, GlutenPhree_27, GoldenSnow_31, Grasshills_30, Grungle_19, Guwapp_26, Halldule_22, HyRo_25, I3_28, IkeLoa_22, InigoMontoya_27, InterFolia_33, Iota_23, Issimir_26, Izajani_27, JPickles_24, Janiyra_26, JayJay_29, Jaygup_26, Jedediah_26, Jemmno_26, Jessibeth14_25, Jezreel_25, JigglyPuff_26, JulietS_21, JustHall_25, Kamryn_26, Kboogie_26, Khaleesi_25, Koguma_22, Konstantine_75, LRRHood_23, Labradorite_27, Latch_26, Lee7_28, Lethe_25, LifeSavor_27, LinStu_26, Littleton_26, Loanshark_26,

LolaVinca_29, LookingGlass_29, LordLeafolot_32, Lukilu_19, Lunareta_25, Maby2021_27, Maguvora_32, Mangeria_29, Matsumoto_25, Maturis_26, McGee_25, McWolfish_25, Megamind_26, Megatron06_72, Melpomini_25, MikeLiesIn_26, Mikro_24, MoMoMixon_27, Moby_20, Moiqah_20, Momo_25, Montpel_25, Morizzled23_25, Naija_26, Napoleon13_25, Nappy_27, Naval22_28, NedWong_27, Ngannou_24, Nidhogg_27, Nish23_73, NoodleTree_25, Norm_26, NuevoMundo_29, Oaker_71, OrediggerDelux_28, ParkTD_25, Patter_26, PharkleMinkus_32, Phlegm_28, Phox_25, Phreeze_70, Phusco_26, Pier_28, Pinkcreek_18, Pio_29, Pivoine_26, Pleione_28, Primadonna_21, Puhon_31, Pupusa_33, PurduePete_25, QBert_24, Quasimodo_26, Rabinovish_25, Rahel_26, Rizal_24, RoMag_21, Rocha_24, Ronan_21, Roots515_26, SVoro_25, Salacia_28, Sauce_27, ScottMcG_26, Sebata_26, Shaqnato_22, Shelob_28, ShiaLabeouf_26, Shifa_23, Shnickers_26, Shrimp_26, SilverDipper_27, SiwenD96_27, SmallFry_26, SoilZilla_23, Spec_26, Specks_31, Sprinklers_26, Spud_28, SrishMeg2525_25, StephanieG_26, StubbySaigey_25, Stubby_24, Substance289_23, Tainan_31, Teardrop_25, Thumb_72, TinyTim_26, Tortoise16_25, Trinitium_25, Turret_24, Tyke_28, ValleyTerrace_26, Wally_25, Willis_26, Yassified_23, YemiJoy2021_27, YoungMoneyMata_26, Yucca_26, Zalkecks_28, Zeenon_28, ZygoTaiga_26,

Genes that have the "Most Annotated" start but do not call it:
• Acolyte_72, Cuke_52, Hurricane_75, Keshu_77, Krueger_78, Lea83_75, MacnCheese_77, Pharb_73, Pixie_74, Shadow1_78, ShedlockHolmes_77, Sunflower1121_79, Syra333_77, TBond007_71, Tigress9_78, Ximenita_79,

Genes that do not have the "Most Annotated" start:
• ABU_57, AbbyPaige_37, AbsoluteMadLad_55, Acadian_54, Adjutor_55, Adriana_57, Aelin_55, Agape74_37, Ahwei_48, AlanGrant_52, Aleia_57, Alkhayr_76, AltPhacts_55, Altwerkus_54, Aminay_80, Amochick_43, Amohnition_72, Amymech_43, Anderson_57, Andies_40, Andre_58, AngelCake_57, Anselm_37, Antihero_48, Antonia_55, Aonishiki_57, Apex_50, Apizium_55, Applecrisp_71, Argie_45, Ashraf_57, Ashwin_77, AuntGwenStacy_104, Austelle_50, Azuria_54, Badfish_57, Baee_55, Baehexic_36, Banjo_55, Basato_56, BatteryCK_56, Beaglebox_56, Bernal13_40, BigMama_54, Bishoperium_56, BlackStallion_57, BlacksBerry_55, Blessica_76, BloominB_42, BlueHusk_57, Bluephacebaby_56, Bluvara_47, BobSwaget_38, Boehler_55, BoogieWoogie_58, BoostSeason_40, Bora_73, Brilliant_58, Buckeye_55, Bugsy_38, Burr_56, Butterscotch_55, CamL_56, CampRoach_58, Candle_55, Cannibal_56, Carcharodon_42, Carthage_54, Caspiboi_56, Catdawg_75, Centaur_37, Cepens_44, Chaelin_57, Chah_58, Charles1_57, CharlieGBrown_56, Charm_35, CheetO_55, Cher_56, Chewbacca_44, Childish_56, Chill_58, ChipMunk_38, Chipette_57, Chorkpop_56, ChrisnMich_49, Chuni_58, Chunky_54, Chute_57, Cobra_57, Colbert_54, Coletti_57, Cooper_50, Cornbread_56, Corndog_78, Cornobble_55, Cosmolli16_57, Craff_59, Crownjwl_56, Crucio_36, D12_43, DaddyDaniels_58, Daegal_45, Daffy_56, Daka_58, Dalmatian_37, DarthP_72, DarthPhader_38, Dati_56, DeepSoil15_43, DelRivs_55, Delton_57, Derpp_55, Dewey_41, Dice_55, DigitDog_54, Dignity_37, Dingo_54, Dione_54, DirtJuice_57, DismalFunk_39, DismalStressor_39, Doddsville_56, DoesntMatter_54, DolOn_60, DonSanchon_54, Donny_55, Dori_57, Doughnut_40, Drake55_38, DreamTeam1_35, DuchessDung_57, DudeLittle_35, Duggie_56, Duplicity_42, Durga_58, Dylan_76, EastView9101_53, Ein37_43, Ekdilam_69, Ellie_70, ElvisPhasley_57, EmGer13_56, Emiris_58, EmpTee_55, Epah_48, Equemioh13_37, Eremos_55, Erk16_55, Etaye_56, Eugenia_56, Evanesce_42, EvilGenius_38, Faiyaz_105, Fameo_36, Familton_76, Fanaw_48, Fang_57, Findley_39, Firecracker_77, FiringLine_36, Flake_56, Flare16_36, FleetyMac_56,

FluffyNinja_57, Forge_41, FoulBall_76, Fowlmouth_56, Fozzie_55, Frankicide_55, FremontTroll_56, Freya_54, FriarPreacher_55, Fringe_60, FugateOSU_56, Fulbright_41, Gancho_42, Gareth_56, GaugeLDP_37, GeneCoco_56, Georgie2_37, Gex_42, Giles_41, Gimesa_58, GinPorsche_49, Giraffe_57, Giuseppe_57, GodPhather_45, Gophee_57, Grand2040_56, Gratitude_37, Gravaillia_42, GreenChile_57, Gumball_55, Gwennie1_56, Gwilliam_57, Gyarad_0054, HH92_42, HSavage_55, Hadrien_43, Hail_41, Haimas_55, Haleema_55, Hally898_48, Hamish_55, Hammy_72, Happabalu_56, HarryHoudini_38, Hartsy_57, Harvey_55, Hekos_53, Held_56, Helpful_59, HenryJackson_56, Hertubise_56, Hetaeria_55, HighStump_58, Hilltopfarm_107, HippoHollow_35, Hocus_56, HogWash_56, Horchata_55, Hydro_49, Ibrahim_40, IdentityCrisis_40, Idergollasper_75, Imara_76, ImtiyazSitla_57, Inchworm_58, Indlulamithi_55, Inverness_55, Iridessa_57, Iridoclysis_57, IsaacEli_57, JAMaL_49, JDog_55, JacAttac_57, JacoRen57_55, JaguarMi_51, JakeO_56, Jamie19_40, JangDynasty_75, JangoPhett_56, Jbug01_56, Jeon_44, Jerm_37, Jesabah_57, Jillium_56, Jiminy_56, Jiraiya_56, JohnLord_60, JoshKayV_37, JustASigh_40, KLucky39_54, Kahve_56, Kailash_56, KandZ_55, KarasumaRum_54, Karn_56, Katniss_57, Keitherie_57, Khan1_56, Kikipoo_57, Kimbrough_57, Kinbote_43, KingCyrus_38, KingPhillip3_75, KingTut_48, KingVeVeVe_54, Kiwot_58, KlimbOn_55, Kloppinator_56, Krili_75, Kwadwo_55, Kwksand96_56, Labeouficaum_56, Lambano_48, Larenn_37, Larson_58, LasagnaCat_58, Lasso_56, LeeLot_56, Lego3393_55, Legolas_58, Lehmann_56, LeiMonet_58, LemonSlice_57, Leviathan_37, LilHazelnut_43, LilTurb_36, LionsBait_35, LittleDigger_48, Lokk_39, Lolalove_50, Longacauda_57, Lopsy_53, LostAndPhound_56, LuckyMarjie_54, Luke_43, Lulumae_54, Lulwa_54, Lumine_57, Luna22_41, MRabcd_55, MadKillah_77, Mag7_56, Magic8_57, Magpie_48, Magsby_42, Malec_38, Mana_55, Manad_55, Mao1_56, Marcoliusprime_39, MarkPhew_75, Marshawn_72, Maru_56, Mask_57, Maskar_57, Matalotodo_55, Mcshane_55, Mecca_56, Megabear_44, Megamind20_57, Megatron_57, Melc17_56, MelsMeow_56, Melville_45, Mendokysei_38, Mesh1_57, Mesmerelda_55, MichaelPhcott_56, MiculUcigas_36, Miko_39, Mikota_54, Milly_39, MiniBoss_54, MitKao_56, MontyDev_56, Mopey_57, Morgushi_56, Mori_76, Morty_57, Mosaic_55, MrMiyagi_55, MrPhizzler_58, Mudslide_49, Mufasa_40, Mulan_56, Murai_76, Murdoc_55, Mutante_56, Mysterious_52, NaSiaTalie_36, Nacho_0057, Nairb_39, Nanao_48, Nangang_54, Nathan_57, Nehemiah_53, Nehme_55, Nette_41, Newman_55, NiaNia_59, Nicole21_57, NiebruSaylor_75, Nigel_50, Nilo_57, Nova1_57, Nova_55, November_71, NovoPizza_44, Numberten_55, Nyala_55, OBUpride_43, OSmaximus_57, Olak_55, Oline_56, Olive_55, OliverWalter_55, Omniscient_57, OneBrain_57, Oosterbaan_56, Orfeu_54, Orion_57, Orwigg_56, PBI1_53, PG1_57, PLot_56, PR_44, Pacifista_55, PallasAthena_56, Panchino_39, Papyrus_56, Parmesanjohn_42, Penelope2018_56, Phamished_57, Phareon_55, PhatCats2014_57, PhatLouie_57, Phelemich_52, PhenghisKhan_56, Pherdinand_57, Phergie_57, Phipps_56, Phleuron_56, Phloss_40, PhrankReynolds_55, Phrann_44, Phrappuccino_28, PhrodoBaggins_57, Phunky_55, Piglet_0056, PinheadLarry_57, Pinkman_55, Pipsqueak_55, Pipsqueaks_42, Piro94_36, Placalicious_56, Plata_56, Plmatters_55, Podrick_54, Pops_55, Poster_48, Potter_55, Power_35, Prager_56, Prickles_57, Prince_49, ProfessorX_55, Puhltonio_56, Puissant_68, QueenB2_36, QueenBeane_56, QueenBeesly_36, Quisquiliae_57, Rachaly_39, RawrgerThat_50, Reccee_54, RedMaple_57, RedRaider89_56, Renkei_48, Reprobate_53, Retro23_37, Rich_54, Ricotta_55, Riggan_57, Riparian_57, Rita130_53, Riverton_55, Robyn_55, Roliet_54, RonRayGun_40, Rope_56, Roscoe_56, Roy17_55, Ryadel_79, SDcharge11_55, Salazzle_57, SallyH_57, Samaymay_56, SassyCat97_55, Sbash_50, Schadenfreude_55, Schnauzer_43, SchoolBus_75, Schueller_56, Schuy_77, Scitech_39, Scoot17C_57, Scrick_57, Selr12_56, SemperFi_37,

Send513_56, Septica_55, Serendipitous_53, Serendipity_56, Serpentine_0056, Settecandela_28, ShadowBud_57, Sheila_54, Shenyu_54, Shida_75, Shweta_40, Sigman_57, Silvafighter_43, SilverBell_55, Simielle_55, SirBeauregard_57, SirHarley_57, SirJeffery_53, SirPhilip_73, Skippy_57, Sknot_36, Slatt_57, Smeagan_38, Smooch_78, Smurph_42, SnapTap_36, Snekmaggedon_40, Soile_57, Solosis_55, Sophia_55, Soto_54, Spartan300_55, SpongeBob_40, Squid_56, Squiggle_57, Stinger_49, StinkyVeggy_54, Strobilo_39, Struggle_56, Stuck_54, Suffolk_54, Suigeneris_55, SuperheroCarly_56, Surely_56, SweetiePie_36, Swiphy_57, Swish_57, TClif_75, TM4_93, TallGrassMM_56, Tapioca_44, Taptic_44, Taraxa_57, TarsusIV_35, TelAviv_72, Telesworld_54, Terrific_37, Tessdabest_43, Thora_56, Thoth_56, ThreeOh3D2_57, Thunderbird_55, Timmi_55, TomBombadil_56, Tomlarah_57, Toni_55, TooFast2Furius_56, Tooj_54, Tortoise12_41, Triad_56, Troll4_56, Trooper_37, True_55, Trypo_58, Turbido_36, Typha_103, TyrionL_56, UAch1_55, Ubuntu_43, UncleHowie_55, Updawg_37, Usavi_56, Vagabond_76, Vaishali24_54, Valjean_55, Vaticameos_53, Vectra_57, Veritas_57, Vincenzo_51, VioletZ_51, Virapocalypse_57, Virgeve_55, Visconti_57, Vista_55, Vivaldi_57, Vorrps_76, Vortex_56, WST1_41, WaldoWhy_58, Wallhey_56, Waterdiva_56, Webster2_43, Weher20_56, WeiHuaDA_39, Weirdo19_40, Weiss13_55, Whabigail7_36, WideWale_37, Wildflower_76, Windsor_56, Winget_76, Wishmaker_41, Wogge42_75, Xavier_55, Xerxes_42, Xincheng_50, Yelo_55, Yoshand_57, YouGoGlencoco_57, YoyoKar_73, YungJamal_80, Zaider_56, Zakhe101_75, Zebo_75, Zelda_56, ZenTime222_39, Zenon_56, ZoeJ_39, Zonia_57,

**Summary by start number:**

Start 17:
• Found in 23 of 848 ( 2.7% ) of genes in pham
• Manual Annotations of this start: 4 of 764
• Called 17.4% of time when present
• Phage (with cluster) where this start called: Daegal_45 (Q), DeepSoil15_43 (Q), Gancho_42 (Q), Wishmaker_41 (Q),

Start 19:
• Found in 1 of 848 ( 0.1% ) of genes in pham
• Manual Annotations of this start: 1 of 764
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Sbash_50 (I2),

Start 20:
• Found in 8 of 848 ( 0.9% ) of genes in pham
• Manual Annotations of this start: 6 of 764
• Called 87.5% of time when present
• Phage (with cluster) where this start called: Candle_55 (R), Gimesa_58 (R), MontyDev_56 (R), Nilo_57 (R), Riparian_57 (R), Send513_56 (R), Zenon_56 (R),

Start 21:
• Found in 2 of 848 ( 0.2% ) of genes in pham
• Manual Annotations of this start: 2 of 764
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Fowlmouth_56 (AC), MrMiyagi_55 (AC),

Start 24:
• Found in 1 of 848 ( 0.1% ) of genes in pham

• Manual Annotations of this start: 1 of 764
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MacnCheese_77 (K3),

Start 26:
• Found in 1 of 848 ( 0.1% ) of genes in pham
• Manual Annotations of this start: 1 of 764
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cuke_52 (AC),

Start 27:
• Found in 1 of 848 ( 0.1% ) of genes in pham
• Manual Annotations of this start: 1 of 764
• Called 100.0% of time when present
• Phage (with cluster) where this start called: JustASigh_40 (AH),

Start 29:
• Found in 2 of 848 ( 0.2% ) of genes in pham
• Manual Annotations of this start: 1 of 764
• Called 50.0% of time when present
• Phage (with cluster) where this start called: GaugeLDP_37 (A2),

Start 31:
• Found in 10 of 848 ( 1.2% ) of genes in pham
• Manual Annotations of this start: 2 of 764
• Called 20.0% of time when present
• Phage (with cluster) where this start called: Papyrus_56 (R), Yelo_55 (R),

Start 32:
• Found in 8 of 848 ( 0.9% ) of genes in pham
• Manual Annotations of this start: 4 of 764
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Ashwin_77 (O), Corndog_78 (O), Dylan_76 (O), Firecracker_77 (O),

Start 34:
• Found in 1 of 848 ( 0.1% ) 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_40 (AH),

Start 36:
• Found in 1 of 848 ( 0.1% ) of genes in pham
• Manual Annotations of this start: 1 of 764
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Mao1_56 (AD),

Start 37:
• Found in 23 of 848 ( 2.7% ) of genes in pham
• Manual Annotations of this start: 17 of 764
• Called 73.9% of time when present
• Phage (with cluster) where this start called: Amochick_43 (Q), Amymech_43 (Q), BloominB_42 (Q), Dewey_41 (Q), Evanesce_42 (Q), Forge_41 (Q), Giles_41 (Q),

Gravaillia_42 (Q), HH92_42 (Q), Hadrien_43 (Q), Hail_41 (Q), Kinbote_43 (Q), LilHazelnut_43 (Q), Luke_43 (Q), Luna22_41 (Q), OBUpride_43 (Q), Ubuntu_43 (Q),

Start 38:
• Found in 6 of 848 ( 0.7% ) of genes in pham
• Manual Annotations of this start: 6 of 764
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Hurricane_75 (K3), Keshu_77 (K3), Lea83_75 (K3), Pixie_74 (K3), ShedlockHolmes_77 (K3), TBond007_71 (K3),

Start 40:
• Found in 11 of 848 ( 1.3% ) of genes in pham
• Manual Annotations of this start: 11 of 764
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BoostSeason_40 (K2), DismalFunk_39 (K2), DismalStressor_39 (K2), Doughnut_40 (K2), Findley_39 (K2), Marcoliusprime_39 (K2), Milly_39 (K2), Mufasa_40 (K2), Strobilo_39 (K2), TM4_93 (K2), ZoeJ_39 (K2),

Start 42:
• Found in 7 of 848 ( 0.8% ) of genes in pham
• Manual Annotations of this start: 5 of 764
• Called 85.7% of time when present
• Phage (with cluster) where this start called: Ibrahim_40 (T), Mendokysei_38 (T), Nairb_39 (T), Nette_41 (T), RonRayGun_40 (T), ZenTime222_39 (T),

Start 44:
• Found in 14 of 848 ( 1.7% ) of genes in pham
• Manual Annotations of this start: 11 of 764
• Called 85.7% of time when present
• Phage (with cluster) where this start called: Argie_45 (W), Bluvara_47 (I3), Cepens_44 (W), D12_43 (W), Dori_57 (AD), GodPhather_45 (W), Jeon_44 (W), Mask_57 (AD), Megabear_44 (W), PR_44 (W), Stuck_54 (I2), Taptic_44 (W),

Start 45:
• Found in 46 of 848 ( 5.4% ) of genes in pham
• Manual Annotations of this start: 33 of 764
• Called 91.3% of time when present
• Phage (with cluster) where this start called: Acadian_54 (B5), Andies_40 (N), Baee_55 (B5), Carcharodon_42 (N), Chewbacca_44 (N), DigitDog_54 (B5), Donny_55 (B5), Duplicity_42 (N), Fulbright_41 (N), Gex_42 (N), IdentityCrisis_40 (AJ), Jamie19_40 (N), KarasumaRum_54 (B5), Magsby_42 (N), Melville_45 (N), Mysterious_52 (B5), Nangang_54 (B5), Nehemiah_53 (B5), NovoPizza_44 (Q), Panchino_39 (N), Parmesanjohn_42 (N), Phelemich_52 (B5), Phloss_40 (N), Phrann_44 (N), Pipsqueaks_42 (N), Reprobate_53 (B5), Rich_54 (B5), Schnauzer_43 (N), Scitech_39 (N), Shenyu_54 (B5), Shweta_40 (N), Silvafighter_43 (N), Smurph_42 (N), Snekmaggedon_40 (N), SpongeBob_40 (N), StinkyVeggy_54 (B5), Suigeneris_55 (B5), Tapioca_44 (N), Tessdabest_43 (N), Tortoise12_41 (N), WST1_41 (AJ), Xerxes_42 (N),

Start 46:
• Found in 20 of 848 ( 2.4% ) of genes in pham
• Manual Annotations of this start: 18 of 764

• Called 90.0% of time when present
• Phage (with cluster) where this start called: Amohnition_72 (K6), Applecrisp_71 (K6), DarthP_72 (K6), Ekdilam_69 (K6), Ellie_70 (K6), Hammy_72 (K6), Krueger_78 (K6), MarkPhew_75 (K1), Marshawn_72 (K6), November_71 (K6), Pharb_73 (K3), Shadow1_78 (K6), SirPhilip_73 (K6), Sunflower1121_79 (K6), Syra333_77 (K6), TClif_75 (K6), Tigress9_78 (K6), Ximenita_79 (K6),

Start 47:
• Found in 40 of 848 ( 4.7% ) of genes in pham
• Manual Annotations of this start: 20 of 764
• Called 72.5% of time when present
• Phage (with cluster) where this start called: AlanGrant_52 (B4), Antihero_48 (B4), Apex_50 (B4), Austelle_50 (B4), ChrisnMich_49 (B4), Cooper_50 (B4), Epah_48 (B4), Fanaw_48 (B4), GinPorsche_49 (B4), Hally898_48 (B4), Hydro_49 (B4), JAMaL_49 (B4), JaguarMi_51 (B4), Lambano_48 (B4), LittleDigger_48 (B4), Lolalove_50 (B4), Magpie_48 (B4), Mudslide_49 (B4), Nanao_48 (B4), Nigel_50 (B4), Poster_48 (B4), Prince_49 (B4), RawrgerThat_50 (B4), Renkei_48 (B4), Stinger_49 (B4), Vincenzo_51 (B4), VioletZ_51 (B4), Weiss13_55 (R), Xincheng_50 (B4),

Start 49:
• Found in 5 of 848 ( 0.6% ) of genes in pham
• Manual Annotations of this start: 1 of 764
• Called 20.0% of time when present
• Phage (with cluster) where this start called: JacoRen57_55 (AB),

Start 50:
• Found in 11 of 848 ( 1.3% ) of genes in pham
• Manual Annotations of this start: 1 of 764
• Called 9.1% of time when present
• Phage (with cluster) where this start called: Indlulamithi_55 (AC),

Start 52:
• Found in 22 of 848 ( 2.6% ) of genes in pham
• Manual Annotations of this start: 22 of 764
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Adjutor_55 (D1), BigMama_54 (D1), Butterscotch_55 (D1), Chill_58 (D1), Delton_57 (D1), Erk16_55 (D1), Giuseppe_57 (D1), Gumball_55 (D1), Helpful_59 (D1), KandZ_55 (D1), Mopey_57 (D1), Nova_55 (D1), PBI1_53 (D1), PLot_56 (D1), Penelope2018_56 (D1), Prager_56 (D1), SirHarley_57 (D1), SuperheroCarly_56 (D1), Thoth_56 (D1), Troll4_56 (D1), Visconti_57 (D1), WaldoWhy_58 (D1),

Start 53:
• Found in 39 of 848 ( 4.6% ) of genes in pham
• Manual Annotations of this start: 3 of 764
• Called 7.7% of time when present
• Phage (with cluster) where this start called: Bernal13_40 (T), Ein37_43 (Q), Webster2_43 (Q),

Start 54:
• Found in 15 of 848 ( 1.8% ) of genes in pham
• Manual Annotations of this start: 5 of 764
• Called 33.3% of time when present

• Phage (with cluster) where this start called: Acolyte_72 (A2), Aminay_80 (K7), Phrappuccino_28 (AA), Rope_56 (R), Settecandela_28 (AA),

Start 55:
• Found in 3 of 848 ( 0.4% ) of genes in pham
• No Manual Annotations of this start.
• Called 33.3% of time when present
• Phage (with cluster) where this start called: JohnLord_60 (AD),

Start 56:
• Found in 87 of 848 ( 10.3% ) of genes in pham
• Manual Annotations of this start: 79 of 764
• Called 93.1% of time when present
• Phage (with cluster) where this start called: AbbyPaige_37 (A2), Agape74_37 (A2), Alkhayr_76 (O), Anselm_37 (A2), Baehexic_36 (A2), Blessica_76 (O), Bora_73 (O), Bugsy_38 (A2), Catdawg_75 (O), Centaur_37 (A2), Charm_35 (A9), ChipMunk_38 (A2), Crucio_36 (A2), Dalmatian_37 (A2), DarthPhader_38 (A12), Dignity_37 (A2), Drake55_38 (A2), DreamTeam1_35 (A9), DudeLittle_35 (A2), Equemioh13_37 (A2), EvilGenius_38 (A2), Fameo_36 (A2), Familton_76 (O), FiringLine_36 (A2), Flare16_36 (A2), FoulBall_76 (O), Georgie2_37 (A2), Gratitude_37 (A2), HarryHoudini_38 (A2), HippoHollow_35 (A2), Idergollasper_75 (O), Imara_76 (O), JangDynasty_75 (O), Jerm_37 (A2), JoshKayV_37 (A2), KingCyrus_38 (A2), KingPhillip3_75 (O), Krili_75 (O), Larenn_37 (A2), Leviathan_37 (A2), LilTurb_36 (A2), MadKillah_77 (O), Malec_38 (A2), MiculUcigas_36 (A2), Mori_76 (O), Murai_76 (O), NaSiaTalie_36 (A2), NiebruSaylor_75 (O), Piro94_36 (A2), Power_35 (A2), QueenB2_36 (A2), QueenBeesly_36 (A2), Retro23_37 (A2), Ryadel_79 (O), SchoolBus_75 (O), Schuy_77 (O), SemperFi_37 (A2), Shida_75 (O), Sknot_36 (A2), Smeagan_38 (A2), Smooch_78 (O), SnapTap_36 (A2), SweetiePie_36 (A2), TarsusIV_35 (A2), TelAviv_72 (O), Terrific_37 (A2), Trooper_37 (A2), Turbido_36 (A2), Updawg_37 (A2), Vagabond_76 (O), Vorrps_76 (O), WeiHuaDA_39 (A2), Whabigail7_36 (A2), WideWale_37 (A2), Wildflower_76 (O), Winget_76 (O), Wogge42_75 (O), YoyoKar_73 (O), YungJamal_80 (O), Zakhe101_75 (O), Zebo_75 (O),

Start 57:
• Found in 9 of 848 ( 1.1% ) of genes in pham
• Manual Annotations of this start: 3 of 764
• Called 55.6% of time when present
• Phage (with cluster) where this start called: EastView9101_53 (B5), Reccee_54 (B5), Rita130_53 (B5), Serendipitous_53 (B5), SirJeffery_53 (B5),

Start 58:
• Found in 4 of 848 ( 0.5% ) of genes in pham
• Manual Annotations of this start: 4 of 764
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AuntGwenStacy_104 (Y), Faiyaz_105 (Y), Hilltopfarm_107 (Y), Typha_103 (Y),

Start 59:
• Found in 246 of 848 ( 29.0% ) of genes in pham
• Manual Annotations of this start: 200 of 764
• Called 93.5% of time when present

• Phage (with cluster) where this start called: Ablatia_25 (C1), Ading_26 (C1), Adlitam_26 (C1), Alice_21 (C1), Amataga_26 (C1), ArcherS7_25 (C1), Asterius_27 (C1), Astraea_27 (C1), Atlantean_26 (C1), Audrick_28 (C1), Ava3_27 (C1), Babyland_25 (C1), BackyardAgain_23 (C1), BadAgartude_27 (C1), BananaFence_27 (C1), Bangla1971_25 (C1), Basquiat_25 (C1), BeanWater_22 (C1), Beckerton_70 (H1), Belieber_22 (C1), Bezza_20 (C1), BigCity_30 (C1), Bigswole_32 (C1), Bipolarisk_25 (C1), Blackbrain_24 (C1), Blackdragon_21 (C1), Blubba_20 (C1), BobaPhatt_26 (C1), BobtimousPrime_74 (H1), Bonray_26 (C1), Bowman_27 (C1), Bread_27 (C1), Breeniome_26 (C1), Burrough_26 (C1), Bxz1_27 (C1), Cactojaque_23 (C1), Cali_26 (C1), Cane17_19 (C1), Capablanca_28 (C1), Caravan_24 (C1), Catera_24 (C1), Cborch11_73 (H1), Chargie21_25 (C1), CharlieB_26 (C1), ChaylaJr_25 (C1), ChickenPhender_25 (C1), Chomp_26 (C1), CindyLou_26 (C1), Cleatunium_22 (C1), Colt_19 (C1), Concombre_25 (C1), DTDevon_27 (C1), Daffodil_28 (C1), Damien_71 (H1), Dandelion_30 (C1), Darko_25 (C1), DeejaClivia_22 (C1), Delilah_26 (C1), Delylah_27 (C1), Demodog_24 (C1), Derek_27 (C1), Dessert_27 (C1), Dietrick_21 (C1), DirtMonster_25 (C1), Domi_21 (C1), DrPhinkDaddy_26 (C1), Drazdys_26 (C1), Duckfeet_23 (C1), ET08_21 (C1), EasyJones_25 (C1), EggyFarm_30 (C1), EmToTheThree_29 (C1), EmmaElysia_24 (C1), Erdmann_27 (C1), ErnieJ_27 (C1), Essence_25 (C1), Ewok_26 (C1), Fixie_22 (C1), Flabslab_27 (C1), Fludd_25 (C1), Fongie_26 (C1), FoxtrotP1_26 (C1), FrayBell_32 (C1), FudgeTart_27 (C1), Gabriel_26 (C1), Gamgam_26 (C1), Ghost_26 (C1), Gizmo_28 (C1), GlutenPhree_27 (C1), GoldenSnow_31 (C1), Grasshills_30 (C1), Grungle_19 (C1), Guwapp_26 (C1), Halldule_22 (C1), HyRo_25 (C1), I3_28 (C1), IkeLoa_22 (C1), InigoMontoya_27 (C1), InterFolia_33 (C1), Iota_23 (C1), Issimir_26 (C1), Izajani_27 (C1), JPickles_24 (C1), Janiyra_26 (C1), JayJay_29 (C1), Jaygup_26 (C1), Jedediah_26 (C1), Jemmno_26 (C1), Jessibeth14_25 (C1), Jezreel_25 (C1), JigglyPuff_26 (C1), JulietS_21 (C1), JustHall_25 (C1), Kamryn_26 (C1), Kboogie_26 (C1), Khaleesi_25 (C1), Koguma_22 (C1), Konstantine_75 (H1), LRRHood_23 (C1), Labradorite_27 (C1), Latch_26 (C1), Lee7_28 (C1), Lethe_25 (C1), LifeSavor_27 (C1), LinStu_26 (C1), Littleton_26 (C1), Loanshark_26 (C1), LolaVinca_29 (C1), LookingGlass_29 (C1), LordLeafolot_32 (C1), Lukilu_19 (C1), Lunareta_25 (C1), Maby2021_27 (C1), Maguvora_32 (C1), Mangeria_29 (C1), Matsumoto_25 (C1), Maturis_26 (C1), McGee_25 (C1), McWolfish_25 (C1), Megamind_26 (C1), Megatron06_72 (H1), Melpomini_25 (C1), MikeLiesIn_26 (C1), Mikro_24 (C1), MoMoMixon_27 (C1), Moby_20 (C1), Moiqah_20 (C1), Momo_25 (C1), Montpel_25 (C1), Morizzled23_25 (C1), Naija_26 (C1), Napoleon13_25 (C1), Nappy_27 (C1), Naval22_28 (C1), NedWong_27 (C1), Ngannou_24 (C1), Nidhogg_27 (C1), Nish23_73 (H1), NoodleTree_25 (C1), Norm_26 (C1), NuevoMundo_29 (C1), Oaker_71 (H1), OrediggerDelux_28 (C1), ParkTD_25 (C1), Patter_26 (C1), PharkleMinkus_32 (C1), Phlegm_28 (C1), Phox_25 (C1), Phreeze_70 (H1), Phusco_26 (C1), Pier_28 (C1), Pinkcreek_18 (C1), Pio_29 (C1), Pivoine_26 (C1), Pleione_28 (C1), Primadonna_21 (C1), Puhon_31 (C1), Pupusa_33 (C1), PurduePete_25 (C1), QBert_24 (C1), Quasimodo_26 (C1), Rabinovish_25 (C1), Rahel_26 (C1), Rizal_24 (C1), RoMag_21 (C1), Rocha_24 (C1), Ronan_21 (C1), Roots515_26 (C1), SVoro_25 (C1), Salacia_28 (C1), Sauce_27 (C1), ScottMcG_26 (C1), Sebata_26 (C1), Shaqnato_22 (C1), Shelob_28 (C1), ShiaLabeouf_26 (C1), Shifa_23 (C1), Shnickers_26 (C1), Shrimp_26 (C1), SilverDipper_27 (C1), SiwenD96_27 (C1), SmallFry_26 (C1), SoilZilla_23 (C1), Spec_26 (C1), Specks_31 (C1), Sprinklers_26 (C1), Spud_28 (C1), SrishMeg2525_25 (C1), StephanieG_26 (C1), StubbySaigey_25 (C1), Stubby_24 (C1), Substance289_23 (C1), Tainan_31 (C1), Teardrop_25 (C1), Thumb_72 (H1), TinyTim_26 (C1), Tortoise16_25 (C1), Trinitium_25 (C1), Turret_24 (C1), Tyke_28 (C1), ValleyTerrace_26 (C1), Wally_25 (C1), Willis_26 (C1), Yassified_23 (C1), YemiJoy2021_27 (C1), YoungMoneyMata_26

(C1), Yucca_26 (C1), Zalkecks_28 (C1), Zeenon_28 (C1), ZygoTaiga_26 (C1),

Start 60:
• Found in 14 of 848 ( 1.7% ) of genes in pham
• Manual Annotations of this start: 1 of 764
• Called 7.1% of time when present
• Phage (with cluster) where this start called: Puissant_68 (H1),

Start 62:
• Found in 321 of 848 ( 37.9% ) of genes in pham
• Manual Annotations of this start: 161 of 764
• Called 57.9% of time when present
• Phage (with cluster) where this start called: Aelin_55 (B1), Aleia_57 (B1), Altwerkus_54 (B1), Anderson_57 (B1), Apizium_55 (B1), Ashraf_57 (B1), Azuria_54 (B1), Banjo_55 (B1), Basato_56 (B1), BatteryCK_56 (B1), Bishoperium_56 (B1), BlackStallion_57 (B1), BlueHusk_57 (B1), Bluephacebaby_56 (B1), Brilliant_58 (B1), Buckeye_55 (B1), CamL_56 (B1), CampRoach_58 (B1), Cannibal_56 (B1), Carthage_54 (B1), Chaelin_57 (B1), Charles1_57 (B1), CheetO_55 (B1), Childish_56 (B1), Chorkpop_56 (B1), Chunky_54 (B1), Coletti_57 (B1), Cornobble_55 (B1), Cosmolli16_57 (B1), Craff_59 (B1), Daffy_56 (B1), Dione_54 (B1), Doddsville_56 (B1), DolOn_60 (B1), DonSanchon_54 (B1), Durga_58 (B1), EmGer13_56 (B1), Emiris_58 (B1), EmpTee_55 (B1), Etaye_56 (B1), Fozzie_55 (B1), FriarPreacher_55 (B1), Fringe_60 (B1), Gareth_56 (B1), GeneCoco_56 (B1), Giraffe_57 (B1), Gophee_57 (B1), GreenChile_57 (B1), Gyarad_0054 (B1), Haimas_55 (B1), Haleema_55 (B1), Hamish_55 (B1), Happabalu_56 (B1), Hartsy_57 (B1), Harvey_55 (B1), Hekos_53 (B1), Hertubise_56 (B1), HighStump_58 (B1), HogWash_56 (B1), Horchata_55 (B1), ImtiyazSitla_57 (B1), Inchworm_58 (B1), Inverness_55 (B1), JacAttac_57 (B1), JakeO_56 (B1), JangoPhett_56 (B1), Jbug01_56 (B1), Jillium_56 (B1), KLucky39_54 (B1), Kahve_56 (B1), Kailash_56 (B1), Karn_56 (B1), Katniss_57 (B1), Keitherie_57 (B1), Kikipoo_57 (B1), Kimbrough_57 (B1), KingTut_48 (B1), KingVeVeVe_54 (B1), Kiwot_58 (B1), Kwadwo_55 (B1), Larson_58 (B1), LasagnaCat_58 (B1), Lasso_56 (B1), LeeLot_56 (B1), Lego3393_55 (B1), Legolas_58 (B1), Lehmann_56 (B1), LemonSlice_57 (B1), Longacauda_57 (B1), LostAndPhound_56 (B1), LuckyMarjie_54 (B1), Lulumae_54 (B1), Lulwa_54 (B1), Lumine_57 (B1), MRabcd_55 (B1), Mag7_56 (B1), Mana_55 (B1), Manad_55 (B1), Maskar_57 (B1), Matalotodo_55 (B1), Mecca_56 (B1), Megamind20_57 (B1), Megatron_57 (B1), MelsMeow_56 (B1), Morty_57 (B1), Mosaic_55 (B1), Nacho_0057 (B1), Nathan_57 (B1), Nehme_55 (B1), Newman_55 (B1), NiaNia_59 (B1), Nova1_57 (B1), Numberten_55 (B1), OSmaximus_57 (B1), Oline_56 (B1), Olive_55 (B1), OliverWalter_55 (B1), Omniscient_57 (B1), OneBrain_57 (B1), Phareon_55 (B1), PhatCats2014_57 (B1), PhatLouie_57 (B1), Pherdinand_57 (B1), Phipps_56 (B1), PhrankReynolds_55 (B1), Phunky_55 (B1), Piglet_0056 (B1), Pinkman_55 (B1), Pipsqueak_55 (B1), Plata_56 (B1), Plmatters_55 (B1), Pops_55 (B1), Potter_55 (B1), Prickles_57 (B1), Puhltonio_56 (B1), QueenBeane_56 (B1), RedMaple_57 (B1), Riggan_57 (B1), Riverton_55 (B1), Robyn_55 (B1), Roliet_54 (B1), Roscoe_56 (B1), Roy17_55 (B1), SDcharge11_55 (B1), Salazzle_57 (B1), Samaymay_56 (B1), SassyCat97_55 (B1), Scrick_57 (B1), Septica_55 (B1), Serpentine_0056 (B1), SilverBell_55 (B1), SirBeauregard_57 (B1), Solosis_55 (B1), Sophia_55 (B1), Soto_54 (B1), Spartan300_55 (B1), Squid_56 (B1), Struggle_56 (B1), Suffolk_54 (B1), Surely_56 (B1), TallGrassMM_56 (B1), Taraxa_57 (B1), Telesworld_54 (B1), Thora_56 (B1), ThreeOh3D2_57 (B1), TomBombadil_56 (B1), Toni_55 (B1), Tooj_54 (B1), Triad_56 (B1), Trypo_58 (B1), UncleHowie_55 (B1), Vaishali24_54 (B1), Valjean_55 (B1), Vaticameos_53 (B1), Vectra_57 (B1), Veritas_57 (B1), Virgeve_55

(B1), Vista_55 (B1), Vortex_56 (B1), Wallhey_56 (B1), Windsor_56 (B1), Xavier_55 (B1), Yoshand_57 (B1), YouGoGlencoco_57 (B1), Zaider_56 (B1), Zelda_56 (B1),

Start 64:
• Found in 321 of 848 ( 37.9% ) of genes in pham
• Manual Annotations of this start: 134 of 764
• Called 42.1% of time when present
• Phage (with cluster) where this start called: ABU_57 (B1), AbsoluteMadLad_55 (B1), Adriana_57 (B1), AltPhacts_55 (B1), Andre_58 (B1), AngelCake_57 (B1), Antonia_55 (B1), Aonishiki_57 (B1), Badfish_57 (B1), Beaglebox_56 (B1), BlacksBerry_55 (B1), Boehler_55 (B1), BoogieWoogie_58 (B1), Burr_56 (B1), Caspiboi_56 (B1), Chah_58 (B1), CharlieGBrown_56 (B1), Cher_56 (B1), Chipette_57 (B1), Chuni_58 (B1), Chute_57 (B1), Cobra_57 (B1), Colbert_54 (B1), Cornbread_56 (B1), Crownjwl_56 (B1), DaddyDaniels_58 (B1), Daka_58 (B1), Dati_56 (B1), DelRivs_55 (B1), Derpp_55 (B1), Dice_55 (B1), Dingo_54 (B1), DirtJuice_57 (B1), DoesntMatter_54 (B1), DuchessDung_57 (B1), Duggie_56 (B1), ElvisPhasley_57 (B1), Eremos_55 (B1), Eugenia_56 (B1), Fang_57 (B1), Flake_56 (B1), FleetyMac_56 (B1), FluffyNinja_57 (B1), Frankicide_55 (B1), FremontTroll_56 (B1), Freya_54 (B1), FugateOSU_56 (B1), Grand2040_56 (B1), Gwennie1_56 (B1), Gwilliam_57 (B1), HSavage_55 (B1), Held_56 (B1), HenryJackson_56 (B1), Hetaeria_55 (B1), Hocus_56 (B1), Iridessa_57 (B1), Iridoclysis_57 (B1), IsaacEli_57 (B1), JDog_55 (B1), Jesabah_57 (B1), Jiminy_56 (B1), Jiraiya_56 (B1), Khan1_56 (B1), KlimbOn_55 (B1), Kloppinator_56 (B1), Kwksand96_56 (B1), Labeouficaum_56 (B1), LeiMonet_58 (B1), Lopsy_53 (B1), Magic8_57 (B1), Maru_56 (B1), Mcshane_55 (B1), Melc17_56 (B1), Mesh1_57 (B1), Mesmerelda_55 (B1), MichaelPhcott_56 (B1), Mikota_54 (B1), MiniBoss_54 (B1), MitKao_56 (B1), Morgushi_56 (B1), MrPhizzler_58 (B1), Mulan_56 (B1), Murdoc_55 (B1), Mutante_56 (B1), Nicole21_57 (B1), Nyala_55 (B1), Olak_55 (B1), Oosterbaan_56 (B1), Orfeu_54 (B1), Orion_57 (B1), Orwigg_56 (B1), PG1_57 (B1), Pacifista_55 (B1), PallasAthena_56 (B1), Phamished_57 (B1), PhenghisKhan_56 (B1), Phergie_57 (B1), Phleuron_56 (B1), PhrodoBaggins_57 (B1), PinheadLarry_57 (B1), Placalicious_56 (B1), Podrick_54 (B1), ProfessorX_55 (B1), Quisquiliae_57 (B1), RedRaider89_56 (B1), Ricotta_55 (B1), SallyH_57 (B1), Schadenfreude_55 (B1), Schueller_56 (B1), Scoot17C_57 (B1), Selr12_56 (B1), Serendipity_56 (B1), ShadowBud_57 (B1), Sheila_54 (B1), Sigman_57 (B1), Simielle_55 (B1), Skippy_57 (B1), Slatt_57 (B1), Soile_57 (B1), Squiggle_57 (B1), Swiphy_57 (B1), Swish_57 (B1), Thunderbird_55 (B1), Timmi_55 (B1), Tomlarah_57 (B1), TooFast2Furius_56 (B1), True_55 (B1), TyrionL_56 (B1), UAch1_55 (B1), Usavi_56 (B1), Virapocalypse_57 (B1), Vivaldi_57 (B1), Waterdiva_56 (B1), Weher20_56 (B1), Zonia_57 (B1),

Start 71:
• Found in 8 of 848 ( 0.9% ) of genes in pham
• Manual Annotations of this start: 5 of 764
• Called 62.5% of time when present
• Phage (with cluster) where this start called: BobSwaget_38 (A2), LionsBait_35 (A2), Lokk_39 (A2), Miko_39 (A2), Rachaly_39 (A2),

Start 84:
• Found in 73 of 848 ( 8.6% ) of genes in pham
• No Manual Annotations of this start.
• Called 1.4% of time when present
• Phage (with cluster) where this start called: Ahwei_48 (B4),

**Summary by clusters:**

There are 29 clusters represented in this pham: K3, K2, K1, K7, K6, A12, I3, I2, A2, A9, C1, AA, AC, AB, AD, AH, AJ, O, N, Q, R, T, W, Y, H1, B4, B5, B1, D1,

Info for manual annotations of cluster A12:
•Start number 56 was manually annotated 1 time for cluster A12.

Info for manual annotations of cluster A2:
•Start number 29 was manually annotated 1 time for cluster A2.
•Start number 54 was manually annotated 1 time for cluster A2.
•Start number 56 was manually annotated 48 times for cluster A2.
•Start number 71 was manually annotated 5 times for cluster A2.

Info for manual annotations of cluster A9:
•Start number 56 was manually annotated 2 times for cluster A9.

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

Info for manual annotations of cluster AB:
•Start number 49 was manually annotated 1 time for cluster AB.

Info for manual annotations of cluster AC:
•Start number 21 was manually annotated 2 times for cluster AC.
•Start number 26 was manually annotated 1 time for cluster AC.
•Start number 50 was manually annotated 1 time for cluster AC.

Info for manual annotations of cluster AD:
•Start number 36 was manually annotated 1 time for cluster AD.
•Start number 44 was manually annotated 2 times for cluster AD.

Info for manual annotations of cluster AH:
•Start number 27 was manually annotated 1 time for cluster AH.

Info for manual annotations of cluster AJ:
•Start number 45 was manually annotated 1 time for cluster AJ.

Info for manual annotations of cluster B1:
•Start number 62 was manually annotated 161 times for cluster B1.
•Start number 64 was manually annotated 134 times for cluster B1.

Info for manual annotations of cluster B4:
•Start number 47 was manually annotated 19 times for cluster B4.

Info for manual annotations of cluster B5:
•Start number 45 was manually annotated 8 times for cluster B5.
•Start number 57 was manually annotated 3 times for cluster B5.

Info for manual annotations of cluster C1:
•Start number 59 was manually annotated 191 times for cluster C1.

Info for manual annotations of cluster D1:

•Start number 52 was manually annotated 22 times for cluster D1.

Info for manual annotations of cluster H1:
•Start number 59 was manually annotated 9 times for cluster H1.
•Start number 60 was manually annotated 1 time for cluster H1.

Info for manual annotations of cluster I2:
•Start number 19 was manually annotated 1 time for cluster I2.
•Start number 44 was manually annotated 1 time for cluster I2.

Info for manual annotations of cluster K1:
•Start number 46 was manually annotated 1 time for cluster K1.

Info for manual annotations of cluster K2:
•Start number 40 was manually annotated 11 times for cluster K2.

Info for manual annotations of cluster K3:
•Start number 24 was manually annotated 1 time for cluster K3.
•Start number 38 was manually annotated 6 times for cluster K3.
•Start number 46 was manually annotated 1 time for cluster K3.

Info for manual annotations of cluster K6:
•Start number 46 was manually annotated 16 times for cluster K6.

Info for manual annotations of cluster K7:
•Start number 54 was manually annotated 1 time for cluster K7.

Info for manual annotations of cluster N:
•Start number 45 was manually annotated 23 times for cluster N.

Info for manual annotations of cluster O:
•Start number 32 was manually annotated 4 times for cluster O.
•Start number 56 was manually annotated 28 times for cluster O.

Info for manual annotations of cluster Q:
•Start number 17 was manually annotated 4 times for cluster Q.
•Start number 37 was manually annotated 17 times for cluster Q.
•Start number 45 was manually annotated 1 time for cluster Q.
•Start number 53 was manually annotated 2 times for cluster Q.

Info for manual annotations of cluster R:
•Start number 20 was manually annotated 6 times for cluster R.
•Start number 31 was manually annotated 2 times for cluster R.
•Start number 47 was manually annotated 1 time for cluster R.
•Start number 54 was manually annotated 1 time for cluster R.

Info for manual annotations of cluster T:
•Start number 42 was manually annotated 5 times for cluster T.
•Start number 53 was manually annotated 1 time for cluster T.

Info for manual annotations of cluster W:
•Start number 44 was manually annotated 8 times for cluster W.

Info for manual annotations of cluster Y:
•Start number 58 was manually annotated 4 times for cluster Y.

### *Gene Information:*

Gene: ABU_57 Start: 48858, Stop: 48490, Start Num: 64
Candidate Starts for ABU_57:
(14, 49062), (16, 49017), (18, 48987), (Start: 62 @48861 has 161 MA's), (Start: 64 @48858 has 134 MA's), (80, 48819), (97, 48738), (119, 48576), (120, 48573), (133, 48522),

Gene: AbbyPaige_37 Start: 27571, Stop: 27951, Start Num: 56
Candidate Starts for AbbyPaige_37:
(Start: 56 @27571 has 79 MA's), (93, 27652), (110, 27760), (116, 27811), (119, 27841), (143, 27928),

Gene: Ablatia_25 Start: 7873, Stop: 8229, Start Num: 59
Candidate Starts for Ablatia_25:
(Start: 59 @7873 has 200 MA's), (98, 7987), (112, 8080), (133, 8176),

Gene: AbsoluteMadLad_55 Start: 48570, Stop: 48202, Start Num: 64
Candidate Starts for AbsoluteMadLad_55:
(14, 48774), (16, 48729), (18, 48699), (41, 48612), (Start: 62 @48573 has 161 MA's), (Start: 64 @48570 has 134 MA's), (80, 48531), (97, 48450), (119, 48288), (120, 48285), (133, 48234),

Gene: Acadian_54 Start: 48515, Stop: 48102, Start Num: 45
Candidate Starts for Acadian_54:
(11, 48794), (Start: 45 @48515 has 33 MA's), (115, 48242), (122, 48197), (123, 48194), (132, 48167),

Gene: Acolyte_72 Start: 45510, Stop: 45139, Start Num: 54
Candidate Starts for Acolyte_72:
(15, 45657), (23, 45597), (43, 45528), (Start: 54 @45510 has 5 MA's), (Start: 59 @45501 has 200 MA's), (79, 45459), (94, 45399), (119, 45222), (128, 45198), (133, 45171),

Gene: Ading_26 Start: 8133, Stop: 8489, Start Num: 59
Candidate Starts for Ading_26:
(Start: 59 @8133 has 200 MA's), (98, 8247), (112, 8340), (133, 8436),

Gene: Adjutor_55 Start: 42662, Stop: 43042, Start Num: 52
Candidate Starts for Adjutor_55:
(Start: 52 @42662 has 22 MA's), (72, 42695), (73, 42698), (74, 42701), (92, 42755), (93, 42758), (111, 42878), (133, 42989), (134, 42992),

Gene: Adlitam_26 Start: 8150, Stop: 8506, Start Num: 59
Candidate Starts for Adlitam_26:
(Start: 59 @8150 has 200 MA's), (98, 8264), (112, 8357), (133, 8453),

Gene: Adriana_57 Start: 48855, Stop: 48487, Start Num: 64
Candidate Starts for Adriana_57:
(14, 49059), (16, 49014), (18, 48984), (Start: 62 @48858 has 161 MA's), (Start: 64 @48855 has 134 MA's), (80, 48816), (97, 48735), (119, 48573), (120, 48570), (133, 48519),

Gene: Aelin_55 Start: 48137, Stop: 47766, Start Num: 62
Candidate Starts for Aelin_55:
(14, 48338), (16, 48293), (18, 48263), (41, 48176), (Start: 62 @48137 has 161 MA's), (Start: 64 @48134 has 134 MA's), (80, 48095), (95, 48023), (97, 48014), (119, 47852), (120, 47849), (133, 47798),

Gene: Agape74_37 Start: 27547, Stop: 27945, Start Num: 56
Candidate Starts for Agape74_37:
(Start: 56 @27547 has 79 MA's), (Start: 60 @27556 has 1 MA's), (119, 27838), (121, 27844), (132, 27874),

Gene: Ahwei_48 Start: 47074, Stop: 46748, Start Num: 84
Candidate Starts for Ahwei_48:
(Start: 47 @47146 has 20 MA's), (74, 47098), (75, 47095), (84, 47074), (127, 46828), (135, 46792),

Gene: AlanGrant_52 Start: 48916, Stop: 48518, Start Num: 47
Candidate Starts for AlanGrant_52:
(Start: 47 @48916 has 20 MA's), (73, 48871), (74, 48868), (91, 48826), (120, 48619),

Gene: Aleia_57 Start: 48463, Stop: 48092, Start Num: 62
Candidate Starts for Aleia_57:
(14, 48664), (16, 48619), (18, 48589), (41, 48502), (Start: 62 @48463 has 161 MA's), (Start: 64 @48460 has 134 MA's), (80, 48421), (95, 48349), (119, 48178), (120, 48175), (133, 48124),

Gene: Alice_21 Start: 7231, Stop: 7587, Start Num: 59
Candidate Starts for Alice_21:
(Start: 59 @7231 has 200 MA's), (112, 7438), (133, 7534),

Gene: Alkhayr_76 Start: 47301, Stop: 46924, Start Num: 56
Candidate Starts for Alkhayr_76:
(Start: 56 @47301 has 79 MA's), (81, 47241), (84, 47229), (96, 47166), (112, 47073), (114, 47067), (117, 47022), (130, 46977), (137, 46938), (138, 46935),

Gene: AltPhacts_55 Start: 47883, Stop: 47515, Start Num: 64
Candidate Starts for AltPhacts_55:
(14, 48087), (16, 48042), (18, 48012), (41, 47925), (Start: 62 @47886 has 161 MA's), (Start: 64 @47883 has 134 MA's), (80, 47844), (95, 47772), (97, 47763), (119, 47601), (120, 47598), (133, 47547),

Gene: Altwerkus_54 Start: 48025, Stop: 47654, Start Num: 62
Candidate Starts for Altwerkus_54:
(14, 48226), (16, 48181), (18, 48151), (Start: 62 @48025 has 161 MA's), (Start: 64 @48022 has 134 MA's), (80, 47983), (97, 47902), (119, 47740), (120, 47737), (133, 47686),

Gene: Amataga_26 Start: 8154, Stop: 8510, Start Num: 59
Candidate Starts for Amataga_26:
(Start: 59 @8154 has 200 MA's), (98, 8268), (112, 8361), (133, 8457),

Gene: Aminay_80 Start: 51264, Stop: 51629, Start Num: 54
Candidate Starts for Aminay_80:
(3, 50760), (10, 50946), (Start: 54 @51264 has 5 MA's), (102, 51402), (132, 51579), (133, 51594),

Gene: Amochick_43 Start: 33322, Stop: 32897, Start Num: 37

Candidate Starts for Amochick_43:
(Start: 17 @33415 has 4 MA's), (28, 33361), (Start: 37 @33322 has 17 MA's), (Start: 53 @33298 has 3 MA's), (74, 33256), (75, 33253), (82, 33232), (89, 33211), (93, 33181), (109, 33079), (132, 32965), (133, 32950), (134, 32947), (139, 32926), (148, 32905),

Gene: Amohnition_72 Start: 50158, Stop: 50541, Start Num: 46
Candidate Starts for Amohnition_72:
(Start: 46 @50158 has 18 MA's), (Start: 50 @50164 has 1 MA's), (78, 50218), (101, 50305), (106, 50344), (112, 50380), (129, 50473), (132, 50482),

Gene: Amymech_43 Start: 33316, Stop: 32891, Start Num: 37
Candidate Starts for Amymech_43:
(Start: 17 @33409 has 4 MA's), (Start: 37 @33316 has 17 MA's), (Start: 53 @33292 has 3 MA's), (74, 33250), (75, 33247), (82, 33226), (89, 33205), (93, 33175), (109, 33073), (132, 32959), (133, 32944), (134, 32941), (139, 32920), (148, 32899),

Gene: Anderson_57 Start: 48597, Stop: 48226, Start Num: 62
Candidate Starts for Anderson_57:
(14, 48798), (16, 48753), (18, 48723), (Start: 62 @48597 has 161 MA's), (Start: 64 @48594 has 134 MA's), (80, 48555), (97, 48474), (119, 48312), (120, 48309), (133, 48258),

Gene: Andies_40 Start: 29966, Stop: 30364, Start Num: 45
Candidate Starts for Andies_40:
(Start: 45 @29966 has 33 MA's), (75, 30017), (80, 30032), (112, 30215), (114, 30221), (125, 30272), (131, 30293), (132, 30296), (133, 30311), (139, 30335), (145, 30350), (147, 30353),

Gene: Andre_58 Start: 48770, Stop: 48402, Start Num: 64
Candidate Starts for Andre_58:
(14, 48974), (16, 48929), (18, 48899), (Start: 62 @48773 has 161 MA's), (Start: 64 @48770 has 134 MA's), (80, 48731), (97, 48650), (119, 48488), (120, 48485), (133, 48434),

Gene: AngelCake_57 Start: 48655, Stop: 48287, Start Num: 64
Candidate Starts for AngelCake_57:
(14, 48859), (16, 48814), (18, 48784), (Start: 62 @48658 has 161 MA's), (Start: 64 @48655 has 134 MA's), (80, 48616), (97, 48535), (119, 48373), (120, 48370), (133, 48319),

Gene: Anselm_37 Start: 27656, Stop: 28039, Start Num: 56
Candidate Starts for Anselm_37:
(Start: 56 @27656 has 79 MA's), (93, 27740), (110, 27848), (116, 27899), (119, 27929), (143, 28016),

Gene: Antihero_48 Start: 47146, Stop: 46748, Start Num: 47
Candidate Starts for Antihero_48:
(Start: 47 @47146 has 20 MA's), (74, 47098), (75, 47095), (84, 47074), (127, 46828), (135, 46792),

Gene: Antonia_55 Start: 48134, Stop: 47766, Start Num: 64
Candidate Starts for Antonia_55:
(14, 48338), (16, 48293), (18, 48263), (41, 48176), (Start: 62 @48137 has 161 MA's), (Start: 64 @48134 has 134 MA's), (80, 48095), (95, 48023), (97, 48014), (119, 47852), (120, 47849), (133, 47798),

Gene: Aonishiki_57 Start: 48637, Stop: 48269, Start Num: 64
Candidate Starts for Aonishiki_57:

(14, 48841), (16, 48796), (18, 48766), (Start: 62 @48640 has 161 MA's), (Start: 64 @48637 has 134 MA's), (80, 48598), (97, 48517), (119, 48355), (120, 48352), (133, 48301),

Gene: Apex_50 Start: 48386, Stop: 47988, Start Num: 47
Candidate Starts for Apex_50:
(5, 48719), (Start: 47 @48386 has 20 MA's), (74, 48338), (75, 48335), (84, 48314), (120, 48089), (127, 48068), (135, 48032),

Gene: Apizium_55 Start: 47731, Stop: 47360, Start Num: 62
Candidate Starts for Apizium_55:
(14, 47932), (16, 47887), (18, 47857), (41, 47770), (Start: 62 @47731 has 161 MA's), (Start: 64 @47728 has 134 MA's), (80, 47689), (95, 47617), (119, 47446), (120, 47443), (133, 47392),

Gene: Applecrisp_71 Start: 49732, Stop: 50115, Start Num: 46
Candidate Starts for Applecrisp_71:
(Start: 46 @49732 has 18 MA's), (Start: 50 @49738 has 1 MA's), (78, 49792), (101, 49879), (104, 49897), (106, 49918), (116, 49990), (129, 50047), (132, 50056),

Gene: ArcherS7_25 Start: 8150, Stop: 8506, Start Num: 59
Candidate Starts for ArcherS7_25:
(Start: 59 @8150 has 200 MA's), (98, 8264), (112, 8357), (133, 8453),

Gene: Argie_45 Start: 40492, Stop: 40893, Start Num: 44
Candidate Starts for Argie_45:
(Start: 44 @40492 has 11 MA's), (Start: 53 @40507 has 3 MA's), (109, 40723), (110, 40729), (112, 40744), (126, 40804), (131, 40822), (132, 40825), (133, 40840), (145, 40879), (147, 40882),

Gene: Ashraf_57 Start: 48338, Stop: 47967, Start Num: 62
Candidate Starts for Ashraf_57:
(8, 48698), (14, 48539), (16, 48494), (18, 48464), (Start: 62 @48338 has 161 MA's), (Start: 64 @48335 has 134 MA's), (80, 48296), (87, 48278), (95, 48224), (97, 48215), (119, 48053), (120, 48050), (133, 47999),

Gene: Ashwin_77 Start: 48095, Stop: 47670, Start Num: 32
Candidate Starts for Ashwin_77:
(Start: 32 @48095 has 4 MA's), (Start: 56 @48047 has 79 MA's), (81, 47987), (84, 47975), (96, 47912), (112, 47819), (114, 47813), (117, 47768), (130, 47723), (137, 47684), (138, 47681),

Gene: Asterius_27 Start: 8422, Stop: 8778, Start Num: 59
Candidate Starts for Asterius_27:
(Start: 59 @8422 has 200 MA's), (98, 8536), (112, 8629), (133, 8725),

Gene: Astraea_27 Start: 8327, Stop: 8683, Start Num: 59
Candidate Starts for Astraea_27:
(Start: 59 @8327 has 200 MA's), (112, 8534), (133, 8630),

Gene: Atlantean_26 Start: 8154, Stop: 8510, Start Num: 59
Candidate Starts for Atlantean_26:
(Start: 59 @8154 has 200 MA's), (98, 8268), (112, 8361), (133, 8457),

Gene: Audrick_28 Start: 8133, Stop: 8489, Start Num: 59
Candidate Starts for Audrick_28:
(Start: 59 @8133 has 200 MA's), (98, 8247), (112, 8340), (133, 8436),

Gene: AuntGwenStacy_104 Start: 64757, Stop: 65095, Start Num: 58
Candidate Starts for AuntGwenStacy_104:
(Start: 58 @64757 has 4 MA's), (65, 64769), (83, 64808), (84, 64811), (114, 64967),

Gene: Austelle_50 Start: 48836, Stop: 48438, Start Num: 47
Candidate Starts for Austelle_50:
(Start: 47 @48836 has 20 MA's), (74, 48788), (75, 48785), (84, 48764), (120, 48539), (127, 48518), (135, 48482),

Gene: Ava3_27 Start: 8699, Stop: 9055, Start Num: 59
Candidate Starts for Ava3_27:
(Start: 59 @8699 has 200 MA's), (112, 8906), (133, 9002),

Gene: Azuria_54 Start: 48372, Stop: 48001, Start Num: 62
Candidate Starts for Azuria_54:
(14, 48573), (16, 48528), (18, 48498), (41, 48411), (Start: 62 @48372 has 161 MA's), (Start: 64 @48369 has 134 MA's), (80, 48330), (95, 48258), (119, 48087), (120, 48084), (133, 48033),

Gene: Babyland_25 Start: 7595, Stop: 7951, Start Num: 59
Candidate Starts for Babyland_25:
(Start: 59 @7595 has 200 MA's), (112, 7802), (133, 7898),

Gene: BackyardAgain_23 Start: 7579, Stop: 7935, Start Num: 59
Candidate Starts for BackyardAgain_23:
(Start: 59 @7579 has 200 MA's), (98, 7693), (112, 7786), (133, 7882),

Gene: BadAgartude_27 Start: 8789, Stop: 9145, Start Num: 59
Candidate Starts for BadAgartude_27:
(Start: 59 @8789 has 200 MA's), (112, 8996), (133, 9092),

Gene: Badfish_57 Start: 48880, Stop: 48512, Start Num: 64
Candidate Starts for Badfish_57:
(14, 49084), (16, 49039), (18, 49009), (Start: 62 @48883 has 161 MA's), (Start: 64 @48880 has 134 MA's), (80, 48841), (97, 48760), (119, 48598), (120, 48595), (133, 48544),

Gene: Baee_55 Start: 49794, Stop: 49378, Start Num: 45
Candidate Starts for Baee_55:
(4, 50172), (6, 50127), (7, 50124), (11, 50073), (Start: 45 @49794 has 33 MA's), (Start: 57 @49776 has 3 MA's), (80, 49722), (135, 49422), (148, 49389),

Gene: Baehexic_36 Start: 27724, Stop: 28119, Start Num: 56
Candidate Starts for Baehexic_36:
(Start: 56 @27724 has 79 MA's), (116, 27982), (119, 28012), (132, 28048),

Gene: BananaFence_27 Start: 8586, Stop: 8942, Start Num: 59
Candidate Starts for BananaFence_27:
(Start: 59 @8586 has 200 MA's), (112, 8793), (133, 8889),

Gene: Bangla1971_25 Start: 8150, Stop: 8506, Start Num: 59
Candidate Starts for Bangla1971_25:
(Start: 59 @8150 has 200 MA's), (98, 8264), (112, 8357), (133, 8453),

Gene: Banjo_55 Start: 48330, Stop: 47959, Start Num: 62
Candidate Starts for Banjo_55:
(14, 48531), (16, 48486), (18, 48456), (Start: 62 @48330 has 161 MA's), (Start: 64 @48327 has 134 MA's), (80, 48288), (95, 48216), (119, 48045), (120, 48042), (133, 47991),

Gene: Basato_56 Start: 48605, Stop: 48234, Start Num: 62
Candidate Starts for Basato_56:
(14, 48806), (16, 48761), (18, 48731), (41, 48644), (Start: 62 @48605 has 161 MA's), (Start: 64 @48602 has 134 MA's), (80, 48563), (97, 48482), (119, 48320), (120, 48317), (133, 48266),

Gene: Basquiat_25 Start: 7576, Stop: 7932, Start Num: 59
Candidate Starts for Basquiat_25:
(Start: 59 @7576 has 200 MA's), (112, 7783), (133, 7879),

Gene: BatteryCK_56 Start: 48278, Stop: 47907, Start Num: 62
Candidate Starts for BatteryCK_56:
(8, 48638), (14, 48479), (16, 48434), (18, 48404), (Start: 62 @48278 has 161 MA's), (Start: 64 @48275 has 134 MA's), (80, 48236), (87, 48218), (95, 48164), (97, 48155), (119, 47993), (120, 47990), (133, 47939),

Gene: Beaglebox_56 Start: 48433, Stop: 48065, Start Num: 64
Candidate Starts for Beaglebox_56:
(14, 48637), (16, 48592), (18, 48562), (Start: 62 @48436 has 161 MA's), (Start: 64 @48433 has 134 MA's), (80, 48394), (97, 48313), (119, 48151), (120, 48148), (133, 48097),

Gene: BeanWater_22 Start: 8264, Stop: 8620, Start Num: 59
Candidate Starts for BeanWater_22:
(Start: 59 @8264 has 200 MA's), (98, 8378), (112, 8471), (133, 8567),

Gene: Beckerton_70 Start: 52660, Stop: 53028, Start Num: 59
Candidate Starts for Beckerton_70:
(Start: 59 @52660 has 200 MA's), (73, 52687), (77, 52699), (93, 52747), (94, 52762), (118, 52924), (132, 52960), (134, 52978),

Gene: Belieber_22 Start: 7343, Stop: 7699, Start Num: 59
Candidate Starts for Belieber_22:
(Start: 59 @7343 has 200 MA's), (112, 7550), (133, 7646),

Gene: Bernal13_40 Start: 31063, Stop: 31446, Start Num: 53
Candidate Starts for Bernal13_40:
(12, 30802), (Start: 42 @31045 has 5 MA's), (Start: 53 @31063 has 3 MA's), (101, 31219), (108, 31270), (112, 31294), (133, 31414), (134, 31417),

Gene: Bezza_20 Start: 7222, Stop: 7578, Start Num: 59
Candidate Starts for Bezza_20:
(Start: 59 @7222 has 200 MA's), (112, 7429), (133, 7525),

Gene: BigCity_30 Start: 9676, Stop: 10035, Start Num: 59
Candidate Starts for BigCity_30:
(Start: 59 @9676 has 200 MA's), (98, 9790), (112, 9883), (133, 9982),

Gene: BigMama_54 Start: 42738, Stop: 43118, Start Num: 52
Candidate Starts for BigMama_54:

(Start: 52 @42738 has 22 MA's), (72, 42771), (73, 42774), (74, 42777), (92, 42831), (93, 42834), (111, 42954), (133, 43065), (134, 43068),

Gene: Bigswole_32 Start: 10214, Stop: 10570, Start Num: 59
Candidate Starts for Bigswole_32:
(Start: 59 @10214 has 200 MA's), (98, 10328), (112, 10421), (133, 10517),

Gene: Bipolarisk_25 Start: 8416, Stop: 8772, Start Num: 59
Candidate Starts for Bipolarisk_25:
(Start: 59 @8416 has 200 MA's), (98, 8530), (112, 8623), (133, 8719),

Gene: Bishoperium_56 Start: 48869, Stop: 48498, Start Num: 62
Candidate Starts for Bishoperium_56:
(14, 49070), (16, 49025), (18, 48995), (Start: 62 @48869 has 161 MA's), (Start: 64 @48866 has 134 MA's), (80, 48827), (97, 48746), (119, 48584), (120, 48581), (133, 48530),

Gene: BlackStallion_57 Start: 48331, Stop: 47960, Start Num: 62
Candidate Starts for BlackStallion_57:
(14, 48532), (16, 48487), (18, 48457), (Start: 62 @48331 has 161 MA's), (Start: 64 @48328 has 134 MA's), (80, 48289), (97, 48208), (119, 48046), (120, 48043), (133, 47992),

Gene: Blackbrain_24 Start: 7392, Stop: 7748, Start Num: 59
Candidate Starts for Blackbrain_24:
(Start: 59 @7392 has 200 MA's), (112, 7599), (133, 7695),

Gene: Blackdragon_21 Start: 7190, Stop: 7546, Start Num: 59
Candidate Starts for Blackdragon_21:
(Start: 59 @7190 has 200 MA's), (112, 7397), (133, 7493),

Gene: BlacksBerry_55 Start: 48025, Stop: 47657, Start Num: 64
Candidate Starts for BlacksBerry_55:
(8, 48388), (14, 48229), (16, 48184), (18, 48154), (41, 48067), (Start: 62 @48028 has 161 MA's), (Start: 64 @48025 has 134 MA's), (97, 47905), (119, 47743), (120, 47740), (133, 47689),

Gene: Blessica_76 Start: 47851, Stop: 47474, Start Num: 56
Candidate Starts for Blessica_76:
(Start: 56 @47851 has 79 MA's), (81, 47791), (84, 47779), (96, 47716), (112, 47623), (114, 47617), (117, 47572), (130, 47527), (137, 47488), (138, 47485),

Gene: BloominB_42 Start: 33316, Stop: 32891, Start Num: 37
Candidate Starts for BloominB_42:
(Start: 17 @33409 has 4 MA's), (Start: 37 @33316 has 17 MA's), (Start: 53 @33292 has 3 MA's), (74, 33250), (75, 33247), (82, 33226), (89, 33205), (93, 33175), (109, 33073), (132, 32959), (133, 32944), (134, 32941), (139, 32920), (148, 32899),

Gene: Blubba_20 Start: 6880, Stop: 7236, Start Num: 59
Candidate Starts for Blubba_20:
(Start: 59 @6880 has 200 MA's), (98, 6994), (112, 7087), (133, 7183),

Gene: BlueHusk_57 Start: 48153, Stop: 47782, Start Num: 62
Candidate Starts for BlueHusk_57:
(14, 48354), (16, 48309), (18, 48279), (41, 48192), (Start: 62 @48153 has 161 MA's), (Start: 64 @48150 has 134 MA's), (80, 48111), (97, 48030), (119, 47868), (120, 47865), (133, 47814),

Gene: Bluephacebaby_56 Start: 48872, Stop: 48501, Start Num: 62
Candidate Starts for Bluephacebaby_56:
(14, 49073), (16, 49028), (18, 48998), (Start: 62 @48872 has 161 MA's), (Start: 64 @48869 has 134 MA's), (80, 48830), (97, 48749), (119, 48587), (120, 48584), (133, 48533),

Gene: Bluvara_47 Start: 35598, Stop: 35996, Start Num: 44
Candidate Starts for Bluvara_47:
(25, 35541), (Start: 44 @35598 has 11 MA's), (66, 35628), (80, 35664), (112, 35847), (114, 35853), (119, 35892), (125, 35904), (131, 35925), (132, 35928), (133, 35943), (145, 35982), (147, 35985),

Gene: BobSwaget_38 Start: 27978, Stop: 28349, Start Num: 71
Candidate Starts for BobSwaget_38:
(Start: 71 @27978 has 5 MA's), (101, 28095), (112, 28170), (119, 28236), (132, 28272), (139, 28311), (143, 28323), (147, 28329),

Gene: BobaPhatt_26 Start: 7587, Stop: 7943, Start Num: 59
Candidate Starts for BobaPhatt_26:
(Start: 59 @7587 has 200 MA's), (112, 7794), (133, 7890),

Gene: BobtimousPrime_74 Start: 52962, Stop: 53330, Start Num: 59
Candidate Starts for BobtimousPrime_74:
(Start: 59 @52962 has 200 MA's), (73, 52989), (77, 53001), (93, 53049), (94, 53064), (118, 53226), (132, 53262), (134, 53280),

Gene: Boehler_55 Start: 48311, Stop: 47943, Start Num: 64
Candidate Starts for Boehler_55:
(9, 48659), (14, 48515), (16, 48470), (18, 48440), (41, 48353), (Start: 62 @48314 has 161 MA's), (Start: 64 @48311 has 134 MA's), (97, 48191), (119, 48029), (120, 48026), (133, 47975),

Gene: Bonray_26 Start: 8690, Stop: 9046, Start Num: 59
Candidate Starts for Bonray_26:
(Start: 59 @8690 has 200 MA's), (98, 8804), (112, 8897), (133, 8993),

Gene: BoogieWoogie_58 Start: 48344, Stop: 47976, Start Num: 64
Candidate Starts for BoogieWoogie_58:
(14, 48548), (16, 48503), (18, 48473), (Start: 62 @48347 has 161 MA's), (Start: 64 @48344 has 134 MA's), (80, 48305), (97, 48224), (119, 48062), (120, 48059), (133, 48008),

Gene: BoostSeason_40 Start: 31401, Stop: 31018, Start Num: 40
Candidate Starts for BoostSeason_40:
(39, 31404), (Start: 40 @31401 has 11 MA's), (78, 31341), (94, 31278), (104, 31227), (109, 31191), (112, 31170), (121, 31098), (133, 31053),

Gene: Bora_73 Start: 47232, Stop: 46855, Start Num: 56
Candidate Starts for Bora_73:
(Start: 56 @47232 has 79 MA's), (81, 47172), (84, 47160), (96, 47097), (112, 47004), (114, 46998), (117, 46953), (130, 46908), (137, 46869), (138, 46866),

Gene: Bowman_27 Start: 8699, Stop: 9055, Start Num: 59
Candidate Starts for Bowman_27:
(Start: 59 @8699 has 200 MA's), (112, 8906), (133, 9002),

Gene: Bread_27 Start: 8699, Stop: 9055, Start Num: 59
Candidate Starts for Bread_27:
(Start: 59 @8699 has 200 MA's), (112, 8906), (133, 9002),

Gene: Breeniome_26 Start: 7573, Stop: 7929, Start Num: 59
Candidate Starts for Breeniome_26:
(Start: 59 @7573 has 200 MA's), (98, 7687), (112, 7780), (133, 7876),

Gene: Brilliant_58 Start: 48872, Stop: 48501, Start Num: 62
Candidate Starts for Brilliant_58:
(8, 49232), (14, 49073), (16, 49028), (18, 48998), (Start: 62 @48872 has 161 MA's), (Start: 64 @48869 has 134 MA's), (80, 48830), (97, 48749), (119, 48587), (120, 48584), (133, 48533),

Gene: Buckeye_55 Start: 48383, Stop: 48012, Start Num: 62
Candidate Starts for Buckeye_55:
(14, 48584), (16, 48539), (18, 48509), (Start: 62 @48383 has 161 MA's), (Start: 64 @48380 has 134 MA's), (80, 48341), (97, 48260), (119, 48098), (120, 48095), (133, 48044),

Gene: Bugsy_38 Start: 27869, Stop: 28264, Start Num: 56
Candidate Starts for Bugsy_38:
(Start: 56 @27869 has 79 MA's), (116, 28127), (119, 28157), (132, 28193),

Gene: Burr_56 Start: 48344, Stop: 47976, Start Num: 64
Candidate Starts for Burr_56:
(14, 48548), (16, 48503), (18, 48473), (Start: 62 @48347 has 161 MA's), (Start: 64 @48344 has 134 MA's), (80, 48305), (97, 48224), (119, 48062), (120, 48059), (133, 48008),

Gene: Burrough_26 Start: 8416, Stop: 8772, Start Num: 59
Candidate Starts for Burrough_26:
(Start: 59 @8416 has 200 MA's), (98, 8530), (112, 8623), (133, 8719),

Gene: Butterscotch_55 Start: 42722, Stop: 43102, Start Num: 52
Candidate Starts for Butterscotch_55:
(Start: 52 @42722 has 22 MA's), (72, 42755), (73, 42758), (74, 42761), (92, 42815), (93, 42818), (111, 42938), (133, 43049), (134, 43052),

Gene: Bxz1_27 Start: 9159, Stop: 9515, Start Num: 59
Candidate Starts for Bxz1_27:
(Start: 59 @9159 has 200 MA's), (98, 9273), (112, 9366), (133, 9462),

Gene: Cactojaque_23 Start: 7281, Stop: 7637, Start Num: 59
Candidate Starts for Cactojaque_23:
(Start: 59 @7281 has 200 MA's), (112, 7488), (133, 7584),

Gene: Cali_26 Start: 9723, Stop: 10079, Start Num: 59
Candidate Starts for Cali_26:
(Start: 59 @9723 has 200 MA's), (112, 9930), (133, 10026),

Gene: CamL_56 Start: 48637, Stop: 48266, Start Num: 62
Candidate Starts for CamL_56:
(14, 48838), (16, 48793), (18, 48763), (Start: 62 @48637 has 161 MA's), (Start: 64 @48634 has 134 MA's), (80, 48595), (95, 48523), (119, 48352), (120, 48349), (133, 48298),

Gene: CampRoach_58 Start: 48777, Stop: 48406, Start Num: 62
Candidate Starts for CampRoach_58:
(14, 48978), (16, 48933), (18, 48903), (Start: 62 @48777 has 161 MA's), (Start: 64 @48774 has 134 MA's), (80, 48735), (97, 48654), (119, 48492), (120, 48489), (133, 48438),

Gene: Candle_55 Start: 42652, Stop: 43122, Start Num: 20
Candidate Starts for Candle_55:
(Start: 20 @42652 has 6 MA's), (Start: 31 @42691 has 2 MA's), (Start: 47 @42721 has 20 MA's), (Start: 54 @42733 has 5 MA's), (Start: 60 @42745 has 1 MA's), (69, 42760), (74, 42766), (90, 42817), (107, 42931), (112, 42961), (131, 43051), (132, 43054),

Gene: Cane17_19 Start: 6752, Stop: 7108, Start Num: 59
Candidate Starts for Cane17_19:
(Start: 59 @6752 has 200 MA's), (98, 6866), (112, 6959), (133, 7055),

Gene: Cannibal_56 Start: 48620, Stop: 48249, Start Num: 62
Candidate Starts for Cannibal_56:
(14, 48821), (16, 48776), (18, 48746), (41, 48659), (Start: 62 @48620 has 161 MA's), (Start: 64 @48617 has 134 MA's), (80, 48578), (95, 48506), (119, 48335), (120, 48332), (133, 48281),

Gene: Capablanca_28 Start: 9279, Stop: 9635, Start Num: 59
Candidate Starts for Capablanca_28:
(Start: 59 @9279 has 200 MA's), (98, 9393), (112, 9486), (133, 9582),

Gene: Caravan_24 Start: 7690, Stop: 8046, Start Num: 59
Candidate Starts for Caravan_24:
(Start: 59 @7690 has 200 MA's), (98, 7804), (112, 7897), (133, 7993),

Gene: Carcharodon_42 Start: 30650, Stop: 31048, Start Num: 45
Candidate Starts for Carcharodon_42:
(Start: 45 @30650 has 33 MA's), (75, 30701), (80, 30716), (112, 30899), (114, 30905), (125, 30956), (131, 30977), (132, 30980), (133, 30995), (139, 31019), (145, 31034), (147, 31037),

Gene: Carthage_54 Start: 47615, Stop: 47244, Start Num: 62
Candidate Starts for Carthage_54:
(14, 47816), (16, 47771), (18, 47741), (41, 47654), (Start: 62 @47615 has 161 MA's), (Start: 64 @47612 has 134 MA's), (80, 47573), (87, 47555), (97, 47492), (119, 47330), (120, 47327), (133, 47276),

Gene: Caspiboi_56 Start: 48348, Stop: 47980, Start Num: 64
Candidate Starts for Caspiboi_56:
(8, 48711), (14, 48552), (16, 48507), (18, 48477), (Start: 62 @48351 has 161 MA's), (Start: 64 @48348 has 134 MA's), (80, 48309), (87, 48291), (95, 48237), (97, 48228), (119, 48066), (120, 48063), (133, 48012),

Gene: Catdawg_75 Start: 47587, Stop: 47210, Start Num: 56
Candidate Starts for Catdawg_75:
(Start: 56 @47587 has 79 MA's), (81, 47527), (84, 47515), (96, 47452), (112, 47359), (114, 47353), (117, 47308), (130, 47263), (137, 47224), (138, 47221),

Gene: Catera_24 Start: 7577, Stop: 7933, Start Num: 59
Candidate Starts for Catera_24:
(Start: 59 @7577 has 200 MA's), (98, 7691), (112, 7784), (133, 7880),

Gene: Cborch11_73 Start: 52182, Stop: 52571, Start Num: 59
Candidate Starts for Cborch11_73:
(Start: 59 @52182 has 200 MA's), (73, 52209), (77, 52221), (92, 52266), (93, 52269), (98, 52299), (118, 52449), (136, 52521),

Gene: Centaur_37 Start: 27702, Stop: 28097, Start Num: 56
Candidate Starts for Centaur_37:
(Start: 56 @27702 has 79 MA's), (116, 27960), (119, 27990), (132, 28026),

Gene: Cepens_44 Start: 40207, Stop: 40608, Start Num: 44
Candidate Starts for Cepens_44:
(Start: 44 @40207 has 11 MA's), (Start: 53 @40222 has 3 MA's), (109, 40438), (110, 40444), (112, 40459), (126, 40519), (131, 40537), (132, 40540), (133, 40555), (145, 40594), (147, 40597),

Gene: Chaelin_57 Start: 48867, Stop: 48496, Start Num: 62
Candidate Starts for Chaelin_57:
(14, 49068), (16, 49023), (18, 48993), (Start: 62 @48867 has 161 MA's), (Start: 64 @48864 has 134 MA's), (80, 48825), (97, 48744), (119, 48582), (120, 48579), (133, 48528),

Gene: Chah_58 Start: 48321, Stop: 47953, Start Num: 64
Candidate Starts for Chah_58:
(14, 48525), (16, 48480), (18, 48450), (Start: 62 @48324 has 161 MA's), (Start: 64 @48321 has 134 MA's), (80, 48282), (97, 48201), (119, 48039), (120, 48036), (133, 47985),

Gene: Chargie21_25 Start: 7576, Stop: 7932, Start Num: 59
Candidate Starts for Chargie21_25:
(Start: 59 @7576 has 200 MA's), (112, 7783), (133, 7879),

Gene: Charles1_57 Start: 48633, Stop: 48262, Start Num: 62
Candidate Starts for Charles1_57:
(8, 48993), (14, 48834), (16, 48789), (18, 48759), (41, 48672), (Start: 62 @48633 has 161 MA's), (Start: 64 @48630 has 134 MA's), (97, 48510), (119, 48348), (120, 48345), (133, 48294),

Gene: CharlieB_26 Start: 7730, Stop: 8086, Start Num: 59
Candidate Starts for CharlieB_26:
(Start: 59 @7730 has 200 MA's), (112, 7937), (133, 8033),

Gene: CharlieGBrown_56 Start: 48220, Stop: 47852, Start Num: 64
Candidate Starts for CharlieGBrown_56:
(9, 48568), (14, 48424), (16, 48379), (18, 48349), (Start: 62 @48223 has 161 MA's), (Start: 64 @48220 has 134 MA's), (80, 48181), (87, 48163), (95, 48109), (97, 48100), (119, 47938), (120, 47935), (133, 47884),

Gene: Charm_35 Start: 26987, Stop: 27367, Start Num: 56
Candidate Starts for Charm_35:
(Start: 56 @26987 has 79 MA's), (Start: 71 @27017 has 5 MA's), (92, 27068), (108, 27170), (116, 27230), (119, 27260), (132, 27296),

Gene: ChaylaJr_25 Start: 7663, Stop: 8019, Start Num: 59
Candidate Starts for ChaylaJr_25:
(Start: 59 @7663 has 200 MA's), (112, 7870), (133, 7966),

Gene: CheetO_55 Start: 48353, Stop: 47982, Start Num: 62
Candidate Starts for CheetO_55:
(14, 48554), (16, 48509), (18, 48479), (41, 48392), (Start: 62 @48353 has 161 MA's), (Start: 64 @48350 has 134 MA's), (80, 48311), (97, 48230), (119, 48068), (120, 48065), (133, 48014),

Gene: Cher_56 Start: 48886, Stop: 48518, Start Num: 64
Candidate Starts for Cher_56:
(14, 49090), (16, 49045), (18, 49015), (Start: 62 @48889 has 161 MA's), (Start: 64 @48886 has 134 MA's), (80, 48847), (97, 48766), (119, 48604), (120, 48601), (133, 48550),

Gene: Chewbacca_44 Start: 30650, Stop: 31048, Start Num: 45
Candidate Starts for Chewbacca_44:
(Start: 45 @30650 has 33 MA's), (75, 30701), (80, 30716), (112, 30899), (114, 30905), (125, 30956), (131, 30977), (132, 30980), (133, 30995), (139, 31019), (145, 31034), (147, 31037),

Gene: ChickenPhender_25 Start: 7621, Stop: 7977, Start Num: 59
Candidate Starts for ChickenPhender_25:
(Start: 59 @7621 has 200 MA's), (112, 7828), (133, 7924),

Gene: Childish_56 Start: 48899, Stop: 48528, Start Num: 62
Candidate Starts for Childish_56:
(14, 49100), (16, 49055), (18, 49025), (Start: 62 @48899 has 161 MA's), (Start: 64 @48896 has 134 MA's), (80, 48857), (95, 48785), (119, 48614), (120, 48611), (133, 48560),

Gene: Chill_58 Start: 42785, Stop: 43165, Start Num: 52
Candidate Starts for Chill_58:
(Start: 52 @42785 has 22 MA's), (72, 42818), (73, 42821), (74, 42824), (92, 42878), (93, 42881), (111, 43001), (133, 43112), (134, 43115),

Gene: ChipMunk_38 Start: 28998, Stop: 29381, Start Num: 56
Candidate Starts for ChipMunk_38:
(Start: 56 @28998 has 79 MA's), (93, 29082), (110, 29190), (116, 29241), (119, 29271), (143, 29358),

Gene: Chipette_57 Start: 48581, Stop: 48213, Start Num: 64
Candidate Starts for Chipette_57:
(14, 48785), (16, 48740), (18, 48710), (41, 48623), (Start: 62 @48584 has 161 MA's), (Start: 64 @48581 has 134 MA's), (80, 48542), (97, 48461), (119, 48299), (120, 48296), (133, 48245),

Gene: Chomp_26 Start: 8154, Stop: 8510, Start Num: 59
Candidate Starts for Chomp_26:
(Start: 59 @8154 has 200 MA's), (98, 8268), (112, 8361), (133, 8457),

Gene: Chorkpop_56 Start: 48376, Stop: 48005, Start Num: 62
Candidate Starts for Chorkpop_56:
(14, 48577), (16, 48532), (18, 48502), (Start: 62 @48376 has 161 MA's), (Start: 64 @48373 has 134 MA's), (80, 48334), (95, 48262), (119, 48091), (120, 48088), (133, 48037),

Gene: ChrisnMich_49 Start: 47148, Stop: 46750, Start Num: 47
Candidate Starts for ChrisnMich_49:
(5, 47481), (Start: 47 @47148 has 20 MA's), (74, 47100), (75, 47097), (84, 47076), (127, 46830), (135, 46794),

Gene: Chuni_58 Start: 48891, Stop: 48523, Start Num: 64

Candidate Starts for Chuni_58:
(14, 49095), (16, 49050), (18, 49020), (Start: 62 @48894 has 161 MA's), (Start: 64 @48891 has 134 MA's), (80, 48852), (119, 48609), (120, 48606), (133, 48555),

Gene: Chunky_54 Start: 47683, Stop: 47312, Start Num: 62
Candidate Starts for Chunky_54:
(14, 47884), (16, 47839), (18, 47809), (41, 47722), (Start: 62 @47683 has 161 MA's), (Start: 64 @47680 has 134 MA's), (80, 47641), (97, 47560), (119, 47398), (120, 47395), (133, 47344),

Gene: Chute_57 Start: 48691, Stop: 48323, Start Num: 64
Candidate Starts for Chute_57:
(8, 49054), (14, 48895), (16, 48850), (18, 48820), (41, 48733), (Start: 62 @48694 has 161 MA's), (Start: 64 @48691 has 134 MA's), (97, 48571), (119, 48409), (120, 48406), (133, 48355),

Gene: CindyLou_26 Start: 8154, Stop: 8510, Start Num: 59
Candidate Starts for CindyLou_26:
(Start: 59 @8154 has 200 MA's), (98, 8268), (112, 8361), (133, 8457),

Gene: Cleatunium_22 Start: 7852, Stop: 8208, Start Num: 59
Candidate Starts for Cleatunium_22:
(Start: 59 @7852 has 200 MA's), (98, 7966), (112, 8059), (133, 8155),

Gene: Cobra_57 Start: 48665, Stop: 48297, Start Num: 64
Candidate Starts for Cobra_57:
(14, 48869), (16, 48824), (18, 48794), (Start: 62 @48668 has 161 MA's), (Start: 64 @48665 has 134 MA's), (80, 48626), (97, 48545), (119, 48383), (120, 48380), (133, 48329),

Gene: Colbert_54 Start: 47732, Stop: 47364, Start Num: 64
Candidate Starts for Colbert_54:
(14, 47936), (16, 47891), (18, 47861), (41, 47774), (Start: 62 @47735 has 161 MA's), (Start: 64 @47732 has 134 MA's), (80, 47693), (97, 47612), (119, 47450), (120, 47447), (133, 47396),

Gene: Coletti_57 Start: 48694, Stop: 48323, Start Num: 62
Candidate Starts for Coletti_57:
(8, 49054), (14, 48895), (16, 48850), (18, 48820), (41, 48733), (Start: 62 @48694 has 161 MA's), (Start: 64 @48691 has 134 MA's), (97, 48571), (119, 48409), (120, 48406), (133, 48355),

Gene: Colt_19 Start: 6758, Stop: 7114, Start Num: 59
Candidate Starts for Colt_19:
(Start: 59 @6758 has 200 MA's), (98, 6872), (112, 6965), (133, 7061),

Gene: Concombre_25 Start: 8646, Stop: 9002, Start Num: 59
Candidate Starts for Concombre_25:
(Start: 59 @8646 has 200 MA's), (98, 8760), (112, 8853), (133, 8949),

Gene: Cooper_50 Start: 47373, Stop: 46969, Start Num: 47
Candidate Starts for Cooper_50:
(Start: 47 @47373 has 20 MA's), (74, 47325), (75, 47322), (84, 47301), (91, 47283), (127, 47049), (135, 47013),

Gene: Cornbread_56 Start: 48356, Stop: 47988, Start Num: 64
Candidate Starts for Cornbread_56:

(14, 48560), (16, 48515), (18, 48485), (Start: 62 @48359 has 161 MA's), (Start: 64 @48356 has 134 MA's), (80, 48317), (97, 48236), (119, 48074), (120, 48071), (133, 48020),

Gene: Corndog_78 Start: 48615, Stop: 48190, Start Num: 32
Candidate Starts for Corndog_78:
(Start: 32 @48615 has 4 MA's), (Start: 56 @48567 has 79 MA's), (81, 48507), (84, 48495), (96, 48432), (112, 48339), (114, 48333), (117, 48288), (130, 48243), (137, 48204), (138, 48201),

Gene: Cornobble_55 Start: 48290, Stop: 47919, Start Num: 62
Candidate Starts for Cornobble_55:
(14, 48491), (16, 48446), (18, 48416), (41, 48329), (Start: 62 @48290 has 161 MA's), (Start: 64 @48287 has 134 MA's), (80, 48248), (95, 48176), (119, 48005), (120, 48002), (133, 47951),

Gene: Cosmolli16_57 Start: 49079, Stop: 48708, Start Num: 62
Candidate Starts for Cosmolli16_57:
(14, 49280), (16, 49235), (18, 49205), (Start: 62 @49079 has 161 MA's), (Start: 64 @49076 has 134 MA's), (80, 49037), (95, 48965), (119, 48794), (120, 48791), (133, 48740),

Gene: Craff_59 Start: 49324, Stop: 48953, Start Num: 62
Candidate Starts for Craff_59:
(14, 49525), (16, 49480), (18, 49450), (Start: 62 @49324 has 161 MA's), (Start: 64 @49321 has 134 MA's), (80, 49282), (97, 49201), (119, 49039), (120, 49036), (133, 48985),

Gene: Crownjwl_56 Start: 48353, Stop: 47985, Start Num: 64
Candidate Starts for Crownjwl_56:
(14, 48557), (16, 48512), (18, 48482), (41, 48395), (Start: 62 @48356 has 161 MA's), (Start: 64 @48353 has 134 MA's), (80, 48314), (95, 48242), (97, 48233), (119, 48071), (120, 48068), (133, 48017),

Gene: Crucio_36 Start: 27264, Stop: 27647, Start Num: 56
Candidate Starts for Crucio_36:
(Start: 56 @27264 has 79 MA's), (93, 27348), (110, 27456), (116, 27507), (119, 27537), (143, 27624),

Gene: Cuke_52 Start: 36064, Stop: 36516, Start Num: 26
Candidate Starts for Cuke_52:
(Start: 26 @36064 has 1 MA's), (35, 36106), (Start: 49 @36133 has 1 MA's), (Start: 59 @36148 has 200 MA's), (74, 36181), (77, 36190), (88, 36217), (93, 36244), (99, 36277), (133, 36463), (139, 36487), (145, 36502),

Gene: D12_43 Start: 40755, Stop: 41156, Start Num: 44
Candidate Starts for D12_43:
(Start: 44 @40755 has 11 MA's), (Start: 53 @40770 has 3 MA's), (109, 40986), (110, 40992), (112, 41007), (126, 41067), (131, 41085), (132, 41088), (133, 41103), (145, 41142), (147, 41145),

Gene: DTDevon_27 Start: 9318, Stop: 9674, Start Num: 59
Candidate Starts for DTDevon_27:
(Start: 59 @9318 has 200 MA's), (98, 9432), (112, 9525), (133, 9621),

Gene: DaddyDaniels_58 Start: 48853, Stop: 48485, Start Num: 64
Candidate Starts for DaddyDaniels_58:
(8, 49216), (14, 49057), (16, 49012), (18, 48982), (Start: 62 @48856 has 161 MA's), (Start: 64 @48853 has 134 MA's), (80, 48814), (95, 48742), (119, 48571), (120, 48568), (133, 48517),

Gene: Daegal_45 Start: 33993, Stop: 33472, Start Num: 17
Candidate Starts for Daegal_45:
(Start: 17 @33993 has 4 MA's), (28, 33939), (Start: 37 @33900 has 17 MA's), (Start: 53 @33873 has 3 MA's), (74, 33831), (75, 33828), (82, 33807), (89, 33786), (93, 33756), (109, 33654), (132, 33540), (133, 33525), (134, 33522), (139, 33501), (148, 33480),

Gene: Daffodil_28 Start: 8699, Stop: 9055, Start Num: 59
Candidate Starts for Daffodil_28:
(Start: 59 @8699 has 200 MA's), (112, 8906), (133, 9002),

Gene: Daffy_56 Start: 48362, Stop: 47991, Start Num: 62
Candidate Starts for Daffy_56:
(14, 48563), (16, 48518), (18, 48488), (Start: 62 @48362 has 161 MA's), (Start: 64 @48359 has 134 MA's), (80, 48320), (95, 48248), (119, 48077), (120, 48074), (133, 48023),

Gene: Daka_58 Start: 48633, Stop: 48265, Start Num: 64
Candidate Starts for Daka_58:
(14, 48837), (16, 48792), (18, 48762), (41, 48675), (Start: 62 @48636 has 161 MA's), (Start: 64 @48633 has 134 MA's), (80, 48594), (87, 48576), (97, 48513), (119, 48351), (120, 48348), (133, 48297),

Gene: Dalmatian_37 Start: 27632, Stop: 28015, Start Num: 56
Candidate Starts for Dalmatian_37:
(Start: 56 @27632 has 79 MA's), (93, 27716), (110, 27824), (116, 27875), (119, 27905), (143, 27992),

Gene: Damien_71 Start: 52144, Stop: 52533, Start Num: 59
Candidate Starts for Damien_71:
(Start: 59 @52144 has 200 MA's), (73, 52171), (75, 52177), (77, 52183), (92, 52228), (93, 52231), (98, 52261), (118, 52411), (136, 52483),

Gene: Dandelion_30 Start: 10013, Stop: 10369, Start Num: 59
Candidate Starts for Dandelion_30:
(Start: 59 @10013 has 200 MA's), (98, 10127), (112, 10220), (133, 10316),

Gene: Darko_25 Start: 8555, Stop: 8911, Start Num: 59
Candidate Starts for Darko_25:
(Start: 59 @8555 has 200 MA's), (112, 8762), (133, 8858),

Gene: DarthP_72 Start: 50015, Stop: 50398, Start Num: 46
Candidate Starts for DarthP_72:
(Start: 46 @50015 has 18 MA's), (Start: 50 @50021 has 1 MA's), (78, 50075), (101, 50162), (106, 50201), (112, 50237), (129, 50330), (132, 50339),

Gene: DarthPhader_38 Start: 29146, Stop: 29526, Start Num: 56
Candidate Starts for DarthPhader_38:
(Start: 56 @29146 has 79 MA's), (Start: 71 @29176 has 5 MA's), (119, 29419), (121, 29425),

Gene: Dati_56 Start: 48891, Stop: 48523, Start Num: 64
Candidate Starts for Dati_56:
(14, 49095), (16, 49050), (18, 49020), (Start: 62 @48894 has 161 MA's), (Start: 64 @48891 has 134 MA's), (80, 48852), (97, 48771), (119, 48609), (120, 48606), (133, 48555),

Gene: DeejaClivia_22 Start: 7240, Stop: 7596, Start Num: 59

Candidate Starts for DeejaClivia_22:
(Start: 59 @7240 has 200 MA's), (112, 7447), (133, 7543),

Gene: DeepSoil15_43 Start: 33409, Stop: 32891, Start Num: 17
Candidate Starts for DeepSoil15_43:
(Start: 17 @33409 has 4 MA's), (Start: 37 @33316 has 17 MA's), (Start: 53 @33292 has 3 MA's), (74, 33250), (75, 33247), (82, 33226), (89, 33205), (93, 33175), (109, 33073), (132, 32959), (133, 32944), (134, 32941), (139, 32920), (148, 32899),

Gene: DelRivs_55 Start: 48336, Stop: 47968, Start Num: 64
Candidate Starts for DelRivs_55:
(8, 48699), (14, 48540), (16, 48495), (18, 48465), (Start: 62 @48339 has 161 MA's), (Start: 64 @48336 has 134 MA's), (80, 48297), (97, 48216), (119, 48054), (120, 48051), (133, 48000),

Gene: Delilah_26 Start: 8699, Stop: 9055, Start Num: 59
Candidate Starts for Delilah_26:
(Start: 59 @8699 has 200 MA's), (112, 8906), (133, 9002),

Gene: Delton_57 Start: 43120, Stop: 43500, Start Num: 52
Candidate Starts for Delton_57:
(Start: 52 @43120 has 22 MA's), (72, 43153), (73, 43156), (74, 43159), (92, 43213), (93, 43216), (111, 43336), (133, 43447), (134, 43450),

Gene: Delylah_27 Start: 8482, Stop: 8838, Start Num: 59
Candidate Starts for Delylah_27:
(Start: 59 @8482 has 200 MA's), (112, 8689), (133, 8785),

Gene: Demodog_24 Start: 8646, Stop: 9002, Start Num: 59
Candidate Starts for Demodog_24:
(Start: 59 @8646 has 200 MA's), (98, 8760), (112, 8853), (133, 8949),

Gene: Derek_27 Start: 8111, Stop: 8467, Start Num: 59
Candidate Starts for Derek_27:
(Start: 59 @8111 has 200 MA's), (112, 8318), (133, 8414),

Gene: Derpp_55 Start: 48209, Stop: 47841, Start Num: 64
Candidate Starts for Derpp_55:
(8, 48572), (14, 48413), (16, 48368), (18, 48338), (Start: 62 @48212 has 161 MA's), (Start: 64 @48209 has 134 MA's), (80, 48170), (87, 48152), (95, 48098), (97, 48089), (119, 47927), (120, 47924), (133, 47873),

Gene: Dessert_27 Start: 8154, Stop: 8510, Start Num: 59
Candidate Starts for Dessert_27:
(Start: 59 @8154 has 200 MA's), (98, 8268), (112, 8361), (133, 8457),

Gene: Dewey_41 Start: 33316, Stop: 32891, Start Num: 37
Candidate Starts for Dewey_41:
(Start: 17 @33409 has 4 MA's), (Start: 37 @33316 has 17 MA's), (Start: 53 @33292 has 3 MA's), (74, 33250), (75, 33247), (82, 33226), (89, 33205), (93, 33175), (109, 33073), (132, 32959), (133, 32944), (134, 32941), (139, 32920), (148, 32899),

Gene: Dice_55 Start: 48300, Stop: 47932, Start Num: 64
Candidate Starts for Dice_55:

(14, 48504), (16, 48459), (18, 48429), (Start: 62 @48303 has 161 MA's), (Start: 64 @48300 has 134 MA's), (80, 48261), (97, 48180), (119, 48018), (120, 48015), (133, 47964),

Gene: Dietrick_21 Start: 7349, Stop: 7705, Start Num: 59
Candidate Starts for Dietrick_21:
(Start: 59 @7349 has 200 MA's), (112, 7556), (133, 7652),

Gene: DigitDog_54 Start: 48511, Stop: 48098, Start Num: 45
Candidate Starts for DigitDog_54:
(4, 48889), (6, 48844), (7, 48841), (Start: 45 @48511 has 33 MA's), (80, 48439), (122, 48193), (123, 48190), (132, 48163),

Gene: Dignity_37 Start: 27627, Stop: 28025, Start Num: 56
Candidate Starts for Dignity_37:
(Start: 56 @27627 has 79 MA's), (79, 27675), (119, 27918), (121, 27924), (132, 27954),

Gene: Dingo_54 Start: 47659, Stop: 47291, Start Num: 64
Candidate Starts for Dingo_54:
(14, 47863), (16, 47818), (18, 47788), (41, 47701), (Start: 62 @47662 has 161 MA's), (Start: 64 @47659 has 134 MA's), (80, 47620), (97, 47539), (119, 47377), (120, 47374), (133, 47323),

Gene: Dione_54 Start: 48034, Stop: 47663, Start Num: 62
Candidate Starts for Dione_54:
(14, 48235), (16, 48190), (18, 48160), (41, 48073), (Start: 62 @48034 has 161 MA's), (Start: 64 @48031 has 134 MA's), (97, 47911), (119, 47749), (120, 47746), (133, 47695),

Gene: DirtJuice_57 Start: 48622, Stop: 48254, Start Num: 64
Candidate Starts for DirtJuice_57:
(14, 48826), (16, 48781), (18, 48751), (41, 48664), (Start: 62 @48625 has 161 MA's), (Start: 64 @48622 has 134 MA's), (80, 48583), (87, 48565), (97, 48502), (119, 48340), (120, 48337), (133, 48286),

Gene: DirtMonster_25 Start: 9243, Stop: 9599, Start Num: 59
Candidate Starts for DirtMonster_25:
(Start: 59 @9243 has 200 MA's), (98, 9357), (112, 9450), (133, 9546),

Gene: DismalFunk_39 Start: 31497, Stop: 31114, Start Num: 40
Candidate Starts for DismalFunk_39:
(Start: 40 @31497 has 11 MA's), (78, 31437), (94, 31374), (104, 31323), (112, 31266), (121, 31194), (133, 31149), (134, 31146), (139, 31125),

Gene: DismalStressor_39 Start: 31497, Stop: 31114, Start Num: 40
Candidate Starts for DismalStressor_39:
(Start: 40 @31497 has 11 MA's), (78, 31437), (94, 31374), (104, 31323), (112, 31266), (121, 31194), (133, 31149), (134, 31146), (139, 31125),

Gene: Doddsville_56 Start: 48368, Stop: 47997, Start Num: 62
Candidate Starts for Doddsville_56:
(8, 48728), (14, 48569), (16, 48524), (18, 48494), (Start: 62 @48368 has 161 MA's), (Start: 64 @48365 has 134 MA's), (80, 48326), (87, 48308), (95, 48254), (119, 48083), (120, 48080), (133, 48029),

Gene: DoesntMatter_54 Start: 48324, Stop: 47956, Start Num: 64
Candidate Starts for DoesntMatter_54:

(14, 48528), (16, 48483), (18, 48453), (Start: 62 @48327 has 161 MA's), (Start: 64 @48324 has 134 MA's), (80, 48285), (97, 48204), (119, 48042), (120, 48039), (133, 47988),

Gene: DolOn_60 Start: 49582, Stop: 49211, Start Num: 62
Candidate Starts for DolOn_60:
(14, 49783), (16, 49738), (18, 49708), (Start: 62 @49582 has 161 MA's), (Start: 64 @49579 has 134 MA's), (80, 49540), (97, 49459), (119, 49297), (120, 49294), (133, 49243),

Gene: Domi_21 Start: 7974, Stop: 8330, Start Num: 59
Candidate Starts for Domi_21:
(Start: 59 @7974 has 200 MA's), (98, 8088), (112, 8181), (133, 8277),

Gene: DonSanchon_54 Start: 48059, Stop: 47688, Start Num: 62
Candidate Starts for DonSanchon_54:
(14, 48260), (16, 48215), (18, 48185), (Start: 62 @48059 has 161 MA's), (Start: 64 @48056 has 134 MA's), (80, 48017), (97, 47936), (119, 47774), (120, 47771), (133, 47720),

Gene: Donny_55 Start: 48805, Stop: 48392, Start Num: 45
Candidate Starts for Donny_55:
(4, 49183), (6, 49138), (7, 49135), (Start: 45 @48805 has 33 MA's), (Start: 57 @48787 has 3 MA's), (80, 48733), (135, 48436), (148, 48403),

Gene: Dori_57 Start: 47308, Stop: 47706, Start Num: 44
Candidate Starts for Dori_57:
(25, 47251), (Start: 44 @47308 has 11 MA's), (66, 47338), (80, 47374), (85, 47392), (112, 47557), (114, 47563), (119, 47602), (125, 47614), (131, 47635), (132, 47638), (133, 47653), (145, 47692), (147, 47695),

Gene: Doughnut_40 Start: 31391, Stop: 31008, Start Num: 40
Candidate Starts for Doughnut_40:
(39, 31394), (Start: 40 @31391 has 11 MA's), (78, 31331), (94, 31268), (104, 31217), (112, 31160), (121, 31088), (133, 31043),

Gene: DrPhinkDaddy_26 Start: 8696, Stop: 9052, Start Num: 59
Candidate Starts for DrPhinkDaddy_26:
(Start: 59 @8696 has 200 MA's), (98, 8810), (112, 8903), (133, 8999),

Gene: Drake55_38 Start: 27765, Stop: 28160, Start Num: 56
Candidate Starts for Drake55_38:
(Start: 56 @27765 has 79 MA's), (116, 28023), (119, 28053), (132, 28089),

Gene: Drazdys_26 Start: 8484, Stop: 8840, Start Num: 59
Candidate Starts for Drazdys_26:
(Start: 59 @8484 has 200 MA's), (112, 8691), (133, 8787),

Gene: DreamTeam1_35 Start: 26870, Stop: 27250, Start Num: 56
Candidate Starts for DreamTeam1_35:
(Start: 56 @26870 has 79 MA's), (Start: 71 @26900 has 5 MA's), (92, 26951), (108, 27053), (116, 27113), (119, 27143), (132, 27179),

Gene: DuchessDung_57 Start: 47883, Stop: 47515, Start Num: 64
Candidate Starts for DuchessDung_57:

(14, 48087), (16, 48042), (18, 48012), (41, 47925), (Start: 62 @47886 has 161 MA's), (Start: 64 @47883 has 134 MA's), (80, 47844), (95, 47772), (119, 47601), (120, 47598), (133, 47547),

Gene: Duckfeet_23 Start: 7893, Stop: 8249, Start Num: 59
Candidate Starts for Duckfeet_23:
(Start: 59 @7893 has 200 MA's), (112, 8100), (133, 8196),

Gene: DudeLittle_35 Start: 27298, Stop: 27681, Start Num: 56
Candidate Starts for DudeLittle_35:
(Start: 56 @27298 has 79 MA's), (93, 27382), (110, 27490), (116, 27541), (119, 27571), (132, 27607), (143, 27658),

Gene: Duggie_56 Start: 48362, Stop: 47994, Start Num: 64
Candidate Starts for Duggie_56:
(8, 48725), (14, 48566), (16, 48521), (18, 48491), (Start: 62 @48365 has 161 MA's), (Start: 64 @48362 has 134 MA's), (80, 48323), (87, 48305), (95, 48251), (119, 48080), (120, 48077), (133, 48026),

Gene: Duplicity_42 Start: 30659, Stop: 31057, Start Num: 45
Candidate Starts for Duplicity_42:
(Start: 45 @30659 has 33 MA's), (75, 30710), (80, 30725), (112, 30908), (114, 30914), (125, 30965), (131, 30986), (132, 30989), (133, 31004), (139, 31028), (145, 31043), (147, 31046),

Gene: Durga_58 Start: 48804, Stop: 48433, Start Num: 62
Candidate Starts for Durga_58:
(8, 49164), (14, 49005), (16, 48960), (18, 48930), (Start: 62 @48804 has 161 MA's), (Start: 64 @48801 has 134 MA's), (80, 48762), (87, 48744), (95, 48690), (97, 48681), (119, 48519), (120, 48516), (133, 48465),

Gene: Dylan_76 Start: 47811, Stop: 47386, Start Num: 32
Candidate Starts for Dylan_76:
(Start: 32 @47811 has 4 MA's), (Start: 56 @47763 has 79 MA's), (81, 47703), (84, 47691), (96, 47628), (112, 47535), (114, 47529), (117, 47484), (130, 47439), (137, 47400), (138, 47397),

Gene: ET08_21 Start: 8158, Stop: 8514, Start Num: 59
Candidate Starts for ET08_21:
(Start: 59 @8158 has 200 MA's), (112, 8365), (133, 8461),

Gene: EastView9101_53 Start: 48434, Stop: 48039, Start Num: 57
Candidate Starts for EastView9101_53:
(4, 48830), (6, 48785), (7, 48782), (Start: 45 @48452 has 33 MA's), (Start: 57 @48434 has 3 MA's), (80, 48380), (135, 48083), (148, 48050),

Gene: EasyJones_25 Start: 7323, Stop: 7679, Start Num: 59
Candidate Starts for EasyJones_25:
(Start: 59 @7323 has 200 MA's), (112, 7530), (133, 7626),

Gene: EggyFarm_30 Start: 9676, Stop: 10035, Start Num: 59
Candidate Starts for EggyFarm_30:
(Start: 59 @9676 has 200 MA's), (98, 9790), (112, 9883), (133, 9982),

Gene: Ein37_43 Start: 33292, Stop: 32891, Start Num: 53
Candidate Starts for Ein37_43:

(Start: 17 @33409 has 4 MA's), (Start: 37 @33316 has 17 MA's), (Start: 53 @33292 has 3 MA's), (74, 33250), (75, 33247), (82, 33226), (89, 33205), (93, 33175), (109, 33073), (132, 32959), (133, 32944), (134, 32941), (139, 32920), (148, 32899),

Gene: Ekdilam_69 Start: 50223, Stop: 50606, Start Num: 46
Candidate Starts for Ekdilam_69:
(Start: 46 @50223 has 18 MA's), (Start: 50 @50229 has 1 MA's), (65, 50256), (84, 50298), (106, 50409), (116, 50481), (122, 50520), (129, 50538), (132, 50547),

Gene: Ellie_70 Start: 49459, Stop: 49842, Start Num: 46
Candidate Starts for Ellie_70:
(Start: 46 @49459 has 18 MA's), (Start: 50 @49465 has 1 MA's), (78, 49519), (101, 49606), (104, 49624), (106, 49645), (116, 49717), (129, 49774), (132, 49783),

Gene: ElvisPhasley_57 Start: 48902, Stop: 48534, Start Num: 64
Candidate Starts for ElvisPhasley_57:
(14, 49106), (16, 49061), (18, 49031), (41, 48944), (Start: 62 @48905 has 161 MA's), (Start: 64 @48902 has 134 MA's), (80, 48863), (95, 48791), (119, 48620), (120, 48617), (133, 48566),

Gene: EmGer13_56 Start: 48137, Stop: 47766, Start Num: 62
Candidate Starts for EmGer13_56:
(14, 48338), (16, 48293), (18, 48263), (41, 48176), (Start: 62 @48137 has 161 MA's), (Start: 64 @48134 has 134 MA's), (80, 48095), (95, 48023), (97, 48014), (119, 47852), (120, 47849), (133, 47798),

Gene: EmToTheThree_29 Start: 10113, Stop: 10469, Start Num: 59
Candidate Starts for EmToTheThree_29:
(Start: 59 @10113 has 200 MA's), (112, 10320), (133, 10416),

Gene: Emiris_58 Start: 48772, Stop: 48401, Start Num: 62
Candidate Starts for Emiris_58:
(8, 49132), (14, 48973), (16, 48928), (18, 48898), (Start: 62 @48772 has 161 MA's), (Start: 64 @48769 has 134 MA's), (80, 48730), (87, 48712), (95, 48658), (97, 48649), (119, 48487), (120, 48484), (133, 48433),

Gene: EmmaElysia_24 Start: 7341, Stop: 7697, Start Num: 59
Candidate Starts for EmmaElysia_24:
(Start: 59 @7341 has 200 MA's), (112, 7548), (133, 7644),

Gene: EmpTee_55 Start: 48340, Stop: 47969, Start Num: 62
Candidate Starts for EmpTee_55:
(9, 48685), (14, 48541), (16, 48496), (18, 48466), (41, 48379), (Start: 62 @48340 has 161 MA's), (Start: 64 @48337 has 134 MA's), (97, 48217), (119, 48055), (120, 48052), (133, 48001),

Gene: Epah_48 Start: 47146, Stop: 46748, Start Num: 47
Candidate Starts for Epah_48:
(Start: 47 @47146 has 20 MA's), (74, 47098), (75, 47095), (84, 47074), (127, 46828), (135, 46792),

Gene: Equemioh13_37 Start: 27705, Stop: 28100, Start Num: 56
Candidate Starts for Equemioh13_37:
(Start: 56 @27705 has 79 MA's), (116, 27963), (119, 27993), (132, 28029),

Gene: Erdmann_27 Start: 8699, Stop: 9055, Start Num: 59

Candidate Starts for Erdmann_27:
(Start: 59 @8699 has 200 MA's), (112, 8906), (133, 9002),

Gene: Eremos_55 Start: 48330, Stop: 47962, Start Num: 64
Candidate Starts for Eremos_55:
(14, 48534), (16, 48489), (18, 48459), (41, 48372), (Start: 62 @48333 has 161 MA's), (Start: 64 @48330 has 134 MA's), (80, 48291), (95, 48219), (97, 48210), (119, 48048), (120, 48045), (133, 47994),

Gene: Erk16_55 Start: 42824, Stop: 43204, Start Num: 52
Candidate Starts for Erk16_55:
(Start: 52 @42824 has 22 MA's), (72, 42857), (73, 42860), (74, 42863), (92, 42917), (93, 42920), (111, 43040), (133, 43151), (134, 43154),

Gene: ErnieJ_27 Start: 8522, Stop: 8878, Start Num: 59
Candidate Starts for ErnieJ_27:
(Start: 59 @8522 has 200 MA's), (112, 8729), (133, 8825),

Gene: Essence_25 Start: 7876, Stop: 8232, Start Num: 59
Candidate Starts for Essence_25:
(Start: 59 @7876 has 200 MA's), (98, 7990), (112, 8083), (133, 8179),

Gene: Etaye_56 Start: 49163, Stop: 48792, Start Num: 62
Candidate Starts for Etaye_56:
(14, 49364), (16, 49319), (18, 49289), (Start: 62 @49163 has 161 MA's), (Start: 64 @49160 has 134 MA's), (80, 49121), (97, 49040), (119, 48878), (120, 48875), (133, 48824),

Gene: Eugenia_56 Start: 48725, Stop: 48357, Start Num: 64
Candidate Starts for Eugenia_56:
(14, 48929), (16, 48884), (18, 48854), (Start: 62 @48728 has 161 MA's), (Start: 64 @48725 has 134 MA's), (80, 48686), (97, 48605), (119, 48443), (120, 48440), (133, 48389),

Gene: Evanesce_42 Start: 33316, Stop: 32891, Start Num: 37
Candidate Starts for Evanesce_42:
(Start: 17 @33409 has 4 MA's), (Start: 37 @33316 has 17 MA's), (Start: 53 @33292 has 3 MA's), (74, 33250), (75, 33247), (82, 33226), (89, 33205), (93, 33175), (109, 33073), (132, 32959), (133, 32944), (134, 32941), (139, 32920), (148, 32899),

Gene: EvilGenius_38 Start: 29002, Stop: 29385, Start Num: 56
Candidate Starts for EvilGenius_38:
(Start: 56 @29002 has 79 MA's), (93, 29086), (110, 29194), (116, 29245), (119, 29275), (143, 29362),

Gene: Ewok_26 Start: 8702, Stop: 9058, Start Num: 59
Candidate Starts for Ewok_26:
(1, 8036), (2, 8114), (13, 8468), (Start: 59 @8702 has 200 MA's), (98, 8816), (112, 8909), (133, 9005),

Gene: Faiyaz_105 Start: 64943, Stop: 65281, Start Num: 58
Candidate Starts for Faiyaz_105:
(Start: 58 @64943 has 4 MA's), (65, 64955), (83, 64994), (84, 64997), (114, 65153),

Gene: Fameo_36 Start: 27420, Stop: 27818, Start Num: 56
Candidate Starts for Fameo_36:
(Start: 56 @27420 has 79 MA's), (110, 27627), (121, 27717), (132, 27747), (139, 27786),

Gene: Familton_76 Start: 47544, Stop: 47167, Start Num: 56
Candidate Starts for Familton_76:
(Start: 56 @47544 has 79 MA's), (81, 47484), (84, 47472), (96, 47409), (112, 47316), (114, 47310), (117, 47265), (130, 47220), (137, 47181), (138, 47178),

Gene: Fanaw_48 Start: 47836, Stop: 47438, Start Num: 47
Candidate Starts for Fanaw_48:
(Start: 47 @47836 has 20 MA's), (74, 47788), (75, 47785), (84, 47764), (120, 47539), (127, 47518), (135, 47482),

Gene: Fang_57 Start: 48315, Stop: 47947, Start Num: 64
Candidate Starts for Fang_57:
(14, 48519), (16, 48474), (18, 48444), (Start: 62 @48318 has 161 MA's), (Start: 64 @48315 has 134 MA's), (80, 48276), (97, 48195), (119, 48033), (120, 48030), (133, 47979),

Gene: Findley_39 Start: 31490, Stop: 31107, Start Num: 40
Candidate Starts for Findley_39:
(Start: 40 @31490 has 11 MA's), (94, 31367), (104, 31316), (112, 31259), (121, 31187), (133, 31142), (139, 31118),

Gene: Firecracker_77 Start: 47969, Stop: 47544, Start Num: 32
Candidate Starts for Firecracker_77:
(Start: 32 @47969 has 4 MA's), (Start: 56 @47921 has 79 MA's), (81, 47861), (84, 47849), (96, 47786), (112, 47693), (114, 47687), (117, 47642), (130, 47597), (137, 47558), (138, 47555),

Gene: FiringLine_36 Start: 27245, Stop: 27628, Start Num: 56
Candidate Starts for FiringLine_36:
(Start: 56 @27245 has 79 MA's), (93, 27329), (110, 27437), (116, 27488), (119, 27518), (143, 27605),

Gene: Fixie_22 Start: 7324, Stop: 7680, Start Num: 59
Candidate Starts for Fixie_22:
(Start: 59 @7324 has 200 MA's), (112, 7531), (133, 7627),

Gene: Flabslab_27 Start: 8632, Stop: 8988, Start Num: 59
Candidate Starts for Flabslab_27:
(Start: 59 @8632 has 200 MA's), (112, 8839), (133, 8935),

Gene: Flake_56 Start: 48372, Stop: 48004, Start Num: 64
Candidate Starts for Flake_56:
(14, 48576), (16, 48531), (18, 48501), (Start: 62 @48375 has 161 MA's), (Start: 64 @48372 has 134 MA's), (80, 48333), (87, 48315), (95, 48261), (97, 48252), (119, 48090), (120, 48087), (133, 48036),

Gene: Flare16_36 Start: 27377, Stop: 27772, Start Num: 56
Candidate Starts for Flare16_36:
(Start: 56 @27377 has 79 MA's), (116, 27635), (119, 27665), (132, 27701),

Gene: FleetyMac_56 Start: 48314, Stop: 47946, Start Num: 64
Candidate Starts for FleetyMac_56:
(14, 48518), (16, 48473), (18, 48443), (Start: 62 @48317 has 161 MA's), (Start: 64 @48314 has 134 MA's), (80, 48275), (97, 48194), (119, 48032), (120, 48029), (133, 47978),

Gene: Fludd_25 Start: 7577, Stop: 7933, Start Num: 59

Candidate Starts for Fludd_25:
(Start: 59 @7577 has 200 MA's), (112, 7784), (133, 7880),

Gene: FluffyNinja_57 Start: 48329, Stop: 47961, Start Num: 64
Candidate Starts for FluffyNinja_57:
(14, 48533), (16, 48488), (18, 48458), (Start: 62 @48332 has 161 MA's), (Start: 64 @48329 has 134 MA's), (80, 48290), (97, 48209), (119, 48047), (120, 48044), (133, 47993),

Gene: Fongie_26 Start: 9234, Stop: 9590, Start Num: 59
Candidate Starts for Fongie_26:
(Start: 59 @9234 has 200 MA's), (98, 9348), (112, 9441), (133, 9537),

Gene: Forge_41 Start: 33316, Stop: 32891, Start Num: 37
Candidate Starts for Forge_41:
(Start: 17 @33409 has 4 MA's), (Start: 37 @33316 has 17 MA's), (Start: 53 @33292 has 3 MA's), (74, 33250), (75, 33247), (82, 33226), (89, 33205), (93, 33175), (109, 33073), (132, 32959), (133, 32944), (134, 32941), (139, 32920), (148, 32899),

Gene: FoulBall_76 Start: 47587, Stop: 47210, Start Num: 56
Candidate Starts for FoulBall_76:
(Start: 56 @47587 has 79 MA's), (81, 47527), (84, 47515), (96, 47452), (112, 47359), (114, 47353), (117, 47308), (130, 47263), (137, 47224), (138, 47221),

Gene: Fowlmouth_56 Start: 39448, Stop: 39924, Start Num: 21
Candidate Starts for Fowlmouth_56:
(Start: 21 @39448 has 2 MA's), (35, 39502), (Start: 49 @39529 has 1 MA's), (51, 39532), (74, 39577), (77, 39586), (88, 39613), (93, 39640), (134, 39871),

Gene: FoxtrotP1_26 Start: 9027, Stop: 9383, Start Num: 59
Candidate Starts for FoxtrotP1_26:
(Start: 59 @9027 has 200 MA's), (98, 9141), (112, 9234), (133, 9330),

Gene: Fozzie_55 Start: 48666, Stop: 48295, Start Num: 62
Candidate Starts for Fozzie_55:
(14, 48867), (16, 48822), (18, 48792), (41, 48705), (Start: 62 @48666 has 161 MA's), (Start: 64 @48663 has 134 MA's), (80, 48624), (95, 48552), (119, 48381), (120, 48378), (133, 48327),

Gene: Frankicide_55 Start: 48361, Stop: 47993, Start Num: 64
Candidate Starts for Frankicide_55:
(14, 48565), (16, 48520), (18, 48490), (41, 48403), (Start: 62 @48364 has 161 MA's), (Start: 64 @48361 has 134 MA's), (80, 48322), (97, 48241), (119, 48079), (120, 48076), (133, 48025),

Gene: FrayBell_32 Start: 10270, Stop: 10626, Start Num: 59
Candidate Starts for FrayBell_32:
(Start: 59 @10270 has 200 MA's), (98, 10384), (112, 10477), (133, 10573),

Gene: FremontTroll_56 Start: 48928, Stop: 48560, Start Num: 64
Candidate Starts for FremontTroll_56:
(14, 49132), (16, 49087), (18, 49057), (Start: 62 @48931 has 161 MA's), (Start: 64 @48928 has 134 MA's), (80, 48889), (95, 48817), (119, 48646), (120, 48643), (133, 48592),

Gene: Freya_54 Start: 48022, Stop: 47654, Start Num: 64
Candidate Starts for Freya_54:

(14, 48226), (16, 48181), (18, 48151), (Start: 62 @48025 has 161 MA's), (Start: 64 @48022 has 134 MA's), (80, 47983), (97, 47902), (119, 47740), (120, 47737), (133, 47686),

Gene: FriarPreacher_55 Start: 48209, Stop: 47838, Start Num: 62
Candidate Starts for FriarPreacher_55:
(9, 48554), (14, 48410), (16, 48365), (18, 48335), (Start: 62 @48209 has 161 MA's), (Start: 64 @48206 has 134 MA's), (80, 48167), (97, 48086), (119, 47924), (120, 47921), (133, 47870),

Gene: Fringe_60 Start: 49243, Stop: 48872, Start Num: 62
Candidate Starts for Fringe_60:
(14, 49444), (16, 49399), (18, 49369), (Start: 62 @49243 has 161 MA's), (Start: 64 @49240 has 134 MA's), (80, 49201), (97, 49120), (119, 48958), (120, 48955), (133, 48904),

Gene: FudgeTart_27 Start: 8699, Stop: 9055, Start Num: 59
Candidate Starts for FudgeTart_27:
(Start: 59 @8699 has 200 MA's), (112, 8906), (133, 9002),

Gene: FugateOSU_56 Start: 48867, Stop: 48499, Start Num: 64
Candidate Starts for FugateOSU_56:
(14, 49071), (16, 49026), (18, 48996), (Start: 62 @48870 has 161 MA's), (Start: 64 @48867 has 134 MA's), (80, 48828), (97, 48747), (119, 48585), (120, 48582), (133, 48531),

Gene: Fulbright_41 Start: 29739, Stop: 30137, Start Num: 45
Candidate Starts for Fulbright_41:
(Start: 45 @29739 has 33 MA's), (75, 29790), (80, 29805), (112, 29988), (114, 29994), (125, 30045), (131, 30066), (132, 30069), (133, 30084), (139, 30108), (145, 30123), (147, 30126),

Gene: Gabriel_26 Start: 7573, Stop: 7929, Start Num: 59
Candidate Starts for Gabriel_26:
(Start: 59 @7573 has 200 MA's), (98, 7687), (112, 7780), (133, 7876),

Gene: Gamgam_26 Start: 8154, Stop: 8510, Start Num: 59
Candidate Starts for Gamgam_26:
(Start: 59 @8154 has 200 MA's), (98, 8268), (112, 8361), (133, 8457),

Gene: Gancho_42 Start: 33132, Stop: 32614, Start Num: 17
Candidate Starts for Gancho_42:
(Start: 17 @33132 has 4 MA's), (28, 33078), (Start: 37 @33039 has 17 MA's), (Start: 53 @33015 has 3 MA's), (74, 32973), (75, 32970), (82, 32949), (89, 32928), (93, 32898), (109, 32796), (132, 32682), (133, 32667), (134, 32664), (139, 32643), (148, 32622),

Gene: Gareth_56 Start: 48864, Stop: 48493, Start Num: 62
Candidate Starts for Gareth_56:
(14, 49065), (16, 49020), (18, 48990), (Start: 62 @48864 has 161 MA's), (Start: 64 @48861 has 134 MA's), (80, 48822), (97, 48741), (119, 48579), (120, 48576), (133, 48525),

Gene: GaugeLDP_37 Start: 27993, Stop: 28460, Start Num: 29
Candidate Starts for GaugeLDP_37:
(Start: 29 @27993 has 1 MA's), (72, 28089), (79, 28107), (101, 28209), (110, 28269), (116, 28320), (119, 28350), (128, 28374), (143, 28437), (145, 28440), (147, 28443),

Gene: GeneCoco_56 Start: 48660, Stop: 48289, Start Num: 62
Candidate Starts for GeneCoco_56:

(8, 49020), (14, 48861), (16, 48816), (18, 48786), (Start: 62 @48660 has 161 MA's), (Start: 64 @48657 has 134 MA's), (80, 48618), (87, 48600), (95, 48546), (97, 48537), (119, 48375), (120, 48372), (133, 48321),

Gene: Georgie2_37 Start: 27290, Stop: 27673, Start Num: 56
Candidate Starts for Georgie2_37:
(Start: 56 @27290 has 79 MA's), (93, 27374), (110, 27482), (116, 27533), (119, 27563), (143, 27650),

Gene: Gex_42 Start: 30666, Stop: 31064, Start Num: 45
Candidate Starts for Gex_42:
(Start: 45 @30666 has 33 MA's), (75, 30717), (80, 30732), (112, 30915), (114, 30921), (125, 30972), (131, 30993), (132, 30996), (133, 31011), (139, 31035), (145, 31050), (147, 31053),

Gene: Ghost_26 Start: 8154, Stop: 8510, Start Num: 59
Candidate Starts for Ghost_26:
(Start: 59 @8154 has 200 MA's), (98, 8268), (112, 8361), (133, 8457),

Gene: Giles_41 Start: 33316, Stop: 32891, Start Num: 37
Candidate Starts for Giles_41:
(Start: 17 @33409 has 4 MA's), (Start: 37 @33316 has 17 MA's), (Start: 53 @33292 has 3 MA's), (74, 33250), (75, 33247), (82, 33226), (89, 33205), (93, 33175), (109, 33073), (132, 32959), (133, 32944), (134, 32941), (139, 32920), (148, 32899),

Gene: Gimesa_58 Start: 42525, Stop: 42995, Start Num: 20
Candidate Starts for Gimesa_58:
(Start: 20 @42525 has 6 MA's), (Start: 31 @42564 has 2 MA's), (Start: 47 @42594 has 20 MA's), (Start: 54 @42606 has 5 MA's), (Start: 60 @42618 has 1 MA's), (69, 42633), (74, 42639), (90, 42690), (107, 42804), (112, 42834), (131, 42924), (132, 42927), (133, 42942),

Gene: GinPorsche_49 Start: 47146, Stop: 46748, Start Num: 47
Candidate Starts for GinPorsche_49:
(Start: 47 @47146 has 20 MA's), (74, 47098), (75, 47095), (84, 47074), (127, 46828), (135, 46792),

Gene: Giraffe_57 Start: 48860, Stop: 48489, Start Num: 62
Candidate Starts for Giraffe_57:
(14, 49061), (16, 49016), (18, 48986), (Start: 62 @48860 has 161 MA's), (Start: 64 @48857 has 134 MA's), (80, 48818), (95, 48746), (119, 48575), (120, 48572), (133, 48521),

Gene: Giuseppe_57 Start: 42690, Stop: 43070, Start Num: 52
Candidate Starts for Giuseppe_57:
(Start: 52 @42690 has 22 MA's), (72, 42723), (73, 42726), (74, 42729), (92, 42783), (93, 42786), (111, 42906), (133, 43017), (134, 43020),

Gene: Gizmo_28 Start: 8701, Stop: 9057, Start Num: 59
Candidate Starts for Gizmo_28:
(Start: 59 @8701 has 200 MA's), (112, 8908), (133, 9004),

Gene: GlutenPhree_27 Start: 8154, Stop: 8510, Start Num: 59
Candidate Starts for GlutenPhree_27:
(Start: 59 @8154 has 200 MA's), (98, 8268), (112, 8361), (133, 8457),

Gene: GodPhather_45 Start: 40971, Stop: 41372, Start Num: 44
Candidate Starts for GodPhather_45:

(Start: 44 @40971 has 11 MA's), (Start: 53 @40986 has 3 MA's), (109, 41202), (110, 41208), (112, 41223), (126, 41283), (131, 41301), (132, 41304), (133, 41319), (145, 41358), (147, 41361),

Gene: GoldenSnow_31 Start: 10269, Stop: 10625, Start Num: 59
Candidate Starts for GoldenSnow_31:
(Start: 59 @10269 has 200 MA's), (98, 10383), (112, 10476), (133, 10572),

Gene: Gophee_57 Start: 48604, Stop: 48233, Start Num: 62
Candidate Starts for Gophee_57:
(14, 48805), (16, 48760), (18, 48730), (Start: 62 @48604 has 161 MA's), (Start: 64 @48601 has 134 MA's), (80, 48562), (97, 48481), (119, 48319), (120, 48316), (133, 48265),

Gene: Grand2040_56 Start: 48851, Stop: 48483, Start Num: 64
Candidate Starts for Grand2040_56:
(14, 49055), (16, 49010), (18, 48980), (Start: 62 @48854 has 161 MA's), (Start: 64 @48851 has 134 MA's), (80, 48812), (95, 48740), (119, 48569), (120, 48566), (133, 48515),

Gene: Grasshills_30 Start: 9676, Stop: 10035, Start Num: 59
Candidate Starts for Grasshills_30:
(Start: 59 @9676 has 200 MA's), (98, 9790), (112, 9883), (133, 9982),

Gene: Gratitude_37 Start: 27705, Stop: 28100, Start Num: 56
Candidate Starts for Gratitude_37:
(Start: 56 @27705 has 79 MA's), (116, 27963), (119, 27993), (132, 28029),

Gene: Gravaillia_42 Start: 33359, Stop: 32934, Start Num: 37
Candidate Starts for Gravaillia_42:
(Start: 17 @33452 has 4 MA's), (Start: 37 @33359 has 17 MA's), (Start: 53 @33335 has 3 MA's), (75, 33290), (82, 33269), (89, 33248), (109, 33116), (132, 33002), (133, 32987), (139, 32963),

Gene: GreenChile_57 Start: 48346, Stop: 47975, Start Num: 62
Candidate Starts for GreenChile_57:
(14, 48547), (16, 48502), (18, 48472), (41, 48385), (Start: 62 @48346 has 161 MA's), (Start: 64 @48343 has 134 MA's), (80, 48304), (97, 48223), (119, 48061), (120, 48058), (133, 48007),

Gene: Grungle_19 Start: 6273, Stop: 6629, Start Num: 59
Candidate Starts for Grungle_19:
(Start: 59 @6273 has 200 MA's), (112, 6480), (133, 6576),

Gene: Gumball_55 Start: 42916, Stop: 43296, Start Num: 52
Candidate Starts for Gumball_55:
(Start: 52 @42916 has 22 MA's), (72, 42949), (73, 42952), (74, 42955), (92, 43009), (93, 43012), (111, 43132), (133, 43243), (134, 43246),

Gene: Guwapp_26 Start: 8111, Stop: 8467, Start Num: 59
Candidate Starts for Guwapp_26:
(Start: 59 @8111 has 200 MA's), (98, 8225), (112, 8318), (133, 8414),

Gene: Gwennie1_56 Start: 48707, Stop: 48339, Start Num: 64
Candidate Starts for Gwennie1_56:
(14, 48911), (16, 48866), (18, 48836), (Start: 62 @48710 has 161 MA's), (Start: 64 @48707 has 134 MA's), (80, 48668), (95, 48596), (97, 48587), (119, 48425), (120, 48422), (133, 48371),

Gene: Gwilliam_57 Start: 49214, Stop: 48846, Start Num: 64
Candidate Starts for Gwilliam_57:
(14, 49418), (16, 49373), (18, 49343), (Start: 62 @49217 has 161 MA's), (Start: 64 @49214 has 134 MA's), (80, 49175), (97, 49094), (119, 48932), (120, 48929), (133, 48878),

Gene: Gyarad_0054 Start: 47699, Stop: 47328, Start Num: 62
Candidate Starts for Gyarad_0054:
(14, 47900), (16, 47855), (18, 47825), (41, 47738), (Start: 62 @47699 has 161 MA's), (Start: 64 @47696 has 134 MA's), (80, 47657), (97, 47576), (119, 47414), (120, 47411), (133, 47360),

Gene: HH92_42 Start: 33316, Stop: 32891, Start Num: 37
Candidate Starts for HH92_42:
(Start: 17 @33409 has 4 MA's), (Start: 37 @33316 has 17 MA's), (Start: 53 @33292 has 3 MA's), (74, 33250), (75, 33247), (82, 33226), (89, 33205), (93, 33175), (109, 33073), (132, 32959), (133, 32944), (134, 32941), (139, 32920), (148, 32899),

Gene: HSavage_55 Start: 48340, Stop: 47972, Start Num: 64
Candidate Starts for HSavage_55:
(14, 48544), (16, 48499), (18, 48469), (41, 48382), (Start: 62 @48343 has 161 MA's), (Start: 64 @48340 has 134 MA's), (80, 48301), (97, 48220), (119, 48058), (120, 48055), (133, 48004),

Gene: Hadrien_43 Start: 33316, Stop: 32891, Start Num: 37
Candidate Starts for Hadrien_43:
(Start: 17 @33409 has 4 MA's), (Start: 37 @33316 has 17 MA's), (Start: 53 @33292 has 3 MA's), (74, 33250), (75, 33247), (82, 33226), (89, 33205), (93, 33175), (109, 33073), (132, 32959), (133, 32944), (134, 32941), (139, 32920), (148, 32899),

Gene: Hail_41 Start: 33316, Stop: 32891, Start Num: 37
Candidate Starts for Hail_41:
(Start: 17 @33409 has 4 MA's), (Start: 37 @33316 has 17 MA's), (Start: 53 @33292 has 3 MA's), (74, 33250), (75, 33247), (82, 33226), (89, 33205), (93, 33175), (109, 33073), (132, 32959), (133, 32944), (134, 32941), (139, 32920), (148, 32899),

Gene: Haimas_55 Start: 48359, Stop: 47988, Start Num: 62
Candidate Starts for Haimas_55:
(14, 48560), (16, 48515), (18, 48485), (Start: 62 @48359 has 161 MA's), (Start: 64 @48356 has 134 MA's), (80, 48317), (97, 48236), (119, 48074), (120, 48071), (133, 48020),

Gene: Haleema_55 Start: 48358, Stop: 47987, Start Num: 62
Candidate Starts for Haleema_55:
(14, 48559), (16, 48514), (18, 48484), (Start: 62 @48358 has 161 MA's), (Start: 64 @48355 has 134 MA's), (80, 48316), (95, 48244), (119, 48073), (120, 48070), (133, 48019),

Gene: Halldule_22 Start: 6943, Stop: 7299, Start Num: 59
Candidate Starts for Halldule_22:
(Start: 59 @6943 has 200 MA's), (112, 7150), (133, 7246),

Gene: Hally898_48 Start: 47161, Stop: 46760, Start Num: 47
Candidate Starts for Hally898_48:
(Start: 47 @47161 has 20 MA's), (74, 47113), (75, 47110), (76, 47107), (84, 47086), (127, 46840), (135, 46804),

Gene: Hamish_55 Start: 48352, Stop: 47981, Start Num: 62

Candidate Starts for Hamish_55:
(8, 48712), (14, 48553), (16, 48508), (18, 48478), (41, 48391), (Start: 62 @48352 has 161 MA's), (Start: 64 @48349 has 134 MA's), (97, 48229), (119, 48067), (120, 48064), (133, 48013),

Gene: Hammy_72 Start: 50000, Stop: 50383, Start Num: 46
Candidate Starts for Hammy_72:
(Start: 46 @50000 has 18 MA's), (Start: 50 @50006 has 1 MA's), (78, 50060), (101, 50147), (106, 50186), (112, 50222), (129, 50315), (132, 50324),

Gene: Happabalu_56 Start: 48894, Stop: 48523, Start Num: 62
Candidate Starts for Happabalu_56:
(14, 49095), (16, 49050), (18, 49020), (Start: 62 @48894 has 161 MA's), (Start: 64 @48891 has 134 MA's), (80, 48852), (97, 48771), (119, 48609), (120, 48606), (133, 48555),

Gene: HarryHoudini_38 Start: 27804, Stop: 28184, Start Num: 56
Candidate Starts for HarryHoudini_38:
(Start: 56 @27804 has 79 MA's), (119, 28077), (121, 28083), (132, 28113),

Gene: Hartsy_57 Start: 48692, Stop: 48321, Start Num: 62
Candidate Starts for Hartsy_57:
(14, 48893), (16, 48848), (18, 48818), (Start: 62 @48692 has 161 MA's), (Start: 64 @48689 has 134 MA's), (80, 48650), (97, 48569), (119, 48407), (120, 48404), (133, 48353),

Gene: Harvey_55 Start: 48389, Stop: 48018, Start Num: 62
Candidate Starts for Harvey_55:
(14, 48590), (16, 48545), (18, 48515), (Start: 62 @48389 has 161 MA's), (Start: 64 @48386 has 134 MA's), (80, 48347), (97, 48266), (119, 48104), (120, 48101), (133, 48050),

Gene: Hekos_53 Start: 47731, Stop: 47360, Start Num: 62
Candidate Starts for Hekos_53:
(14, 47932), (16, 47887), (18, 47857), (41, 47770), (Start: 62 @47731 has 161 MA's), (Start: 64 @47728 has 134 MA's), (80, 47689), (97, 47608), (119, 47446), (120, 47443), (133, 47392),

Gene: Held_56 Start: 48360, Stop: 47992, Start Num: 64
Candidate Starts for Held_56:
(14, 48564), (16, 48519), (18, 48489), (Start: 62 @48363 has 161 MA's), (Start: 64 @48360 has 134 MA's), (80, 48321), (95, 48249), (119, 48078), (120, 48075), (133, 48024),

Gene: Helpful_59 Start: 43051, Stop: 43431, Start Num: 52
Candidate Starts for Helpful_59:
(Start: 52 @43051 has 22 MA's), (72, 43084), (73, 43087), (74, 43090), (92, 43144), (93, 43147), (111, 43267), (133, 43378), (134, 43381),

Gene: HenryJackson_56 Start: 48885, Stop: 48517, Start Num: 64
Candidate Starts for HenryJackson_56:
(14, 49089), (16, 49044), (18, 49014), (Start: 62 @48888 has 161 MA's), (Start: 64 @48885 has 134 MA's), (80, 48846), (97, 48765), (119, 48603), (120, 48600), (133, 48549),

Gene: Hertubise_56 Start: 48655, Stop: 48284, Start Num: 62
Candidate Starts for Hertubise_56:
(14, 48856), (16, 48811), (18, 48781), (Start: 62 @48655 has 161 MA's), (Start: 64 @48652 has 134 MA's), (80, 48613), (97, 48532), (119, 48370), (120, 48367), (133, 48316),

Gene: Hetaeria_55 Start: 48387, Stop: 48019, Start Num: 64
Candidate Starts for Hetaeria_55:
(14, 48591), (16, 48546), (18, 48516), (41, 48429), (Start: 62 @48390 has 161 MA's), (Start: 64 @48387 has 134 MA's), (80, 48348), (95, 48276), (119, 48105), (120, 48102), (133, 48051),

Gene: HighStump_58 Start: 48866, Stop: 48495, Start Num: 62
Candidate Starts for HighStump_58:
(14, 49067), (16, 49022), (18, 48992), (Start: 62 @48866 has 161 MA's), (Start: 64 @48863 has 134 MA's), (80, 48824), (97, 48743), (119, 48581), (120, 48578), (133, 48527),

Gene: Hilltopfarm_107 Start: 65766, Stop: 66104, Start Num: 58
Candidate Starts for Hilltopfarm_107:
(Start: 58 @65766 has 4 MA's), (65, 65778), (83, 65817), (84, 65820), (114, 65976),

Gene: HippoHollow_35 Start: 28591, Stop: 28971, Start Num: 56
Candidate Starts for HippoHollow_35:
(Start: 56 @28591 has 79 MA's), (93, 28672), (100, 28714), (119, 28864), (128, 28888),

Gene: Hocus_56 Start: 48346, Stop: 47978, Start Num: 64
Candidate Starts for Hocus_56:
(8, 48709), (14, 48550), (16, 48505), (18, 48475), (Start: 62 @48349 has 161 MA's), (Start: 64 @48346 has 134 MA's), (80, 48307), (87, 48289), (95, 48235), (97, 48226), (119, 48064), (120, 48061), (133, 48010),

Gene: HogWash_56 Start: 49185, Stop: 48814, Start Num: 62
Candidate Starts for HogWash_56:
(14, 49386), (16, 49341), (18, 49311), (Start: 62 @49185 has 161 MA's), (Start: 64 @49182 has 134 MA's), (80, 49143), (97, 49062), (119, 48900), (120, 48897), (133, 48846),

Gene: Horchata_55 Start: 48343, Stop: 47972, Start Num: 62
Candidate Starts for Horchata_55:
(14, 48544), (16, 48499), (18, 48469), (41, 48382), (Start: 62 @48343 has 161 MA's), (Start: 64 @48340 has 134 MA's), (80, 48301), (97, 48220), (119, 48058), (120, 48055), (133, 48004),

Gene: Hurricane_75 Start: 49943, Stop: 50338, Start Num: 38
Candidate Starts for Hurricane_75:
(Start: 38 @49943 has 6 MA's), (Start: 59 @49979 has 200 MA's), (78, 50015), (95, 50072), (112, 50177), (116, 50213), (132, 50279), (144, 50330),

Gene: HyRo_25 Start: 8889, Stop: 9245, Start Num: 59
Candidate Starts for HyRo_25:
(Start: 59 @8889 has 200 MA's), (112, 9096), (133, 9192),

Gene: Hydro_49 Start: 48214, Stop: 47816, Start Num: 47
Candidate Starts for Hydro_49:
(Start: 47 @48214 has 20 MA's), (74, 48166), (75, 48163), (84, 48142), (120, 47917), (127, 47896), (135, 47860),

Gene: I3_28 Start: 9266, Stop: 9622, Start Num: 59
Candidate Starts for I3_28:
(Start: 59 @9266 has 200 MA's), (98, 9380), (112, 9473), (133, 9569),

Gene: Ibrahim_40 Start: 31491, Stop: 31892, Start Num: 42

Candidate Starts for Ibrahim_40:
(12, 31248), (Start: 42 @31491 has 5 MA's), (Start: 53 @31509 has 3 MA's), (101, 31665), (108, 31716), (112, 31740), (133, 31860), (134, 31863),

Gene: IdentityCrisis_40 Start: 28510, Stop: 28902, Start Num: 45
Candidate Starts for IdentityCrisis_40:
(Start: 45 @28510 has 33 MA's), (55, 28519), (75, 28555), (114, 28759), (125, 28810), (132, 28834), (134, 28852), (145, 28888),

Gene: Idergollasper_75 Start: 47538, Stop: 47161, Start Num: 56
Candidate Starts for Idergollasper_75:
(Start: 56 @47538 has 79 MA's), (81, 47478), (84, 47466), (96, 47403), (112, 47310), (114, 47304), (117, 47259), (130, 47214), (137, 47175), (138, 47172),

Gene: IkeLoa_22 Start: 8000, Stop: 8356, Start Num: 59
Candidate Starts for IkeLoa_22:
(Start: 59 @8000 has 200 MA's), (98, 8114), (112, 8207), (133, 8303),

Gene: Imara_76 Start: 47387, Stop: 47010, Start Num: 56
Candidate Starts for Imara_76:
(Start: 56 @47387 has 79 MA's), (81, 47327), (84, 47315), (96, 47252), (112, 47159), (114, 47153), (117, 47108), (130, 47063), (137, 47024), (138, 47021),

Gene: ImtiyazSitla_57 Start: 48338, Stop: 47967, Start Num: 62
Candidate Starts for ImtiyazSitla_57:
(8, 48698), (14, 48539), (16, 48494), (18, 48464), (Start: 62 @48338 has 161 MA's), (Start: 64 @48335 has 134 MA's), (80, 48296), (87, 48278), (95, 48224), (97, 48215), (119, 48053), (120, 48050), (133, 47999),

Gene: Inchworm_58 Start: 48737, Stop: 48366, Start Num: 62
Candidate Starts for Inchworm_58:
(14, 48938), (16, 48893), (18, 48863), (Start: 62 @48737 has 161 MA's), (Start: 64 @48734 has 134 MA's), (80, 48695), (97, 48614), (119, 48452), (120, 48449), (133, 48398),

Gene: Indlulamithi_55 Start: 41815, Stop: 42213, Start Num: 50
Candidate Starts for Indlulamithi_55:
(Start: 46 @41809 has 18 MA's), (Start: 50 @41815 has 1 MA's), (85, 41890), (124, 42121),

Gene: InigoMontoya_27 Start: 8115, Stop: 8471, Start Num: 59
Candidate Starts for InigoMontoya_27:
(Start: 59 @8115 has 200 MA's), (98, 8229), (112, 8322), (133, 8418),

Gene: InterFolia_33 Start: 10805, Stop: 11161, Start Num: 59
Candidate Starts for InterFolia_33:
(Start: 59 @10805 has 200 MA's), (98, 10919), (112, 11012), (133, 11108),

Gene: Inverness_55 Start: 48352, Stop: 47981, Start Num: 62
Candidate Starts for Inverness_55:
(14, 48553), (16, 48508), (18, 48478), (41, 48391), (Start: 62 @48352 has 161 MA's), (Start: 64 @48349 has 134 MA's), (80, 48310), (95, 48238), (119, 48067), (120, 48064), (133, 48013),

Gene: Iota_23 Start: 8234, Stop: 8590, Start Num: 59
Candidate Starts for Iota_23:

(Start: 59 @8234 has 200 MA's), (112, 8441), (133, 8537),

Gene: Iridessa_57 Start: 48307, Stop: 47939, Start Num: 64
Candidate Starts for Iridessa_57:
(14, 48511), (16, 48466), (18, 48436), (Start: 62 @48310 has 161 MA's), (Start: 64 @48307 has 134 MA's), (80, 48268), (97, 48187), (119, 48025), (120, 48022), (133, 47971),

Gene: Iridoclysis_57 Start: 48632, Stop: 48264, Start Num: 64
Candidate Starts for Iridoclysis_57:
(14, 48836), (16, 48791), (18, 48761), (Start: 62 @48635 has 161 MA's), (Start: 64 @48632 has 134 MA's), (80, 48593), (95, 48521), (119, 48350), (120, 48347), (133, 48296),

Gene: IsaacEli_57 Start: 48873, Stop: 48505, Start Num: 64
Candidate Starts for IsaacEli_57:
(14, 49077), (16, 49032), (18, 49002), (Start: 62 @48876 has 161 MA's), (Start: 64 @48873 has 134 MA's), (80, 48834), (97, 48753), (119, 48591), (120, 48588), (133, 48537),

Gene: Issimir_26 Start: 8694, Stop: 9050, Start Num: 59
Candidate Starts for Issimir_26:
(13, 8460), (Start: 59 @8694 has 200 MA's), (98, 8808), (112, 8901), (133, 8997),

Gene: Izajani_27 Start: 8699, Stop: 9055, Start Num: 59
Candidate Starts for Izajani_27:
(Start: 59 @8699 has 200 MA's), (112, 8906), (133, 9002),

Gene: JAMaL_49 Start: 48340, Stop: 47954, Start Num: 47
Candidate Starts for JAMaL_49:
(5, 48673), (Start: 47 @48340 has 20 MA's), (Start: 49 @48337 has 1 MA's), (74, 48301), (75, 48298), (120, 48055), (127, 48034), (135, 47998),

Gene: JDog_55 Start: 48889, Stop: 48521, Start Num: 64
Candidate Starts for JDog_55:
(14, 49093), (16, 49048), (18, 49018), (Start: 62 @48892 has 161 MA's), (Start: 64 @48889 has 134 MA's), (80, 48850), (97, 48769), (119, 48607), (120, 48604), (133, 48553),

Gene: JPickles_24 Start: 7351, Stop: 7707, Start Num: 59
Candidate Starts for JPickles_24:
(Start: 59 @7351 has 200 MA's), (112, 7558), (133, 7654),

Gene: JacAttac_57 Start: 48297, Stop: 47926, Start Num: 62
Candidate Starts for JacAttac_57:
(14, 48498), (16, 48453), (18, 48423), (Start: 62 @48297 has 161 MA's), (Start: 64 @48294 has 134 MA's), (80, 48255), (97, 48174), (119, 48012), (120, 48009), (133, 47958),

Gene: JacoRen57_55 Start: 43848, Stop: 44240, Start Num: 49
Candidate Starts for JacoRen57_55:
(Start: 49 @43848 has 1 MA's), (67, 43881), (80, 43917), (103, 44025), (106, 44049), (112, 44085), (127, 44175), (140, 44229),

Gene: JaguarMi_51 Start: 49281, Stop: 48883, Start Num: 47
Candidate Starts for JaguarMi_51:
(Start: 47 @49281 has 20 MA's), (72, 49239), (74, 49233), (75, 49230), (120, 48984), (127, 48963), (135, 48927),

Gene: JakeO_56 Start: 48368, Stop: 47997, Start Num: 62
Candidate Starts for JakeO_56:
(14, 48569), (16, 48524), (18, 48494), (41, 48407), (Start: 62 @48368 has 161 MA's), (Start: 64 @48365 has 134 MA's), (80, 48326), (95, 48254), (119, 48083), (120, 48080), (133, 48029),

Gene: Jamie19_40 Start: 29847, Stop: 30245, Start Num: 45
Candidate Starts for Jamie19_40:
(Start: 45 @29847 has 33 MA's), (75, 29898), (80, 29913), (112, 30096), (114, 30102), (125, 30153), (131, 30174), (132, 30177), (133, 30192), (139, 30216), (145, 30231), (147, 30234),

Gene: JangDynasty_75 Start: 47605, Stop: 47228, Start Num: 56
Candidate Starts for JangDynasty_75:
(Start: 56 @47605 has 79 MA's), (81, 47545), (84, 47533), (96, 47470), (112, 47377), (114, 47371), (117, 47326), (130, 47281), (137, 47242), (138, 47239),

Gene: JangoPhett_56 Start: 48637, Stop: 48275, Start Num: 62
Candidate Starts for JangoPhett_56:
(8, 48997), (14, 48838), (16, 48793), (18, 48763), (Start: 62 @48637 has 161 MA's), (Start: 64 @48634 has 134 MA's), (80, 48595), (87, 48577), (95, 48532), (97, 48523), (119, 48361), (120, 48358), (133, 48307),

Gene: Janiyra_26 Start: 8133, Stop: 8489, Start Num: 59
Candidate Starts for Janiyra_26:
(Start: 59 @8133 has 200 MA's), (98, 8247), (112, 8340), (133, 8436),

Gene: JayJay_29 Start: 8667, Stop: 9023, Start Num: 59
Candidate Starts for JayJay_29:
(Start: 59 @8667 has 200 MA's), (98, 8781), (112, 8874), (133, 8970),

Gene: Jaygup_26 Start: 8150, Stop: 8506, Start Num: 59
Candidate Starts for Jaygup_26:
(Start: 59 @8150 has 200 MA's), (98, 8264), (112, 8357), (133, 8453),

Gene: Jbug01_56 Start: 48114, Stop: 47743, Start Num: 62
Candidate Starts for Jbug01_56:
(14, 48315), (16, 48270), (18, 48240), (41, 48153), (Start: 62 @48114 has 161 MA's), (Start: 64 @48111 has 134 MA's), (80, 48072), (95, 48000), (119, 47829), (120, 47826), (133, 47775),

Gene: Jedediah_26 Start: 7619, Stop: 7975, Start Num: 59
Candidate Starts for Jedediah_26:
(Start: 59 @7619 has 200 MA's), (98, 7733), (112, 7826), (133, 7922),

Gene: Jemmno_26 Start: 8154, Stop: 8510, Start Num: 59
Candidate Starts for Jemmno_26:
(Start: 59 @8154 has 200 MA's), (98, 8268), (112, 8361), (133, 8457),

Gene: Jeon_44 Start: 40713, Stop: 41114, Start Num: 44
Candidate Starts for Jeon_44:
(Start: 44 @40713 has 11 MA's), (Start: 53 @40728 has 3 MA's), (109, 40944), (110, 40950), (112, 40965), (126, 41025), (131, 41043), (132, 41046), (133, 41061), (145, 41100), (147, 41103),

Gene: Jerm_37 Start: 27620, Stop: 28018, Start Num: 56

Candidate Starts for Jerm_37:
(Start: 56 @27620 has 79 MA's), (79, 27668), (119, 27911), (121, 27917), (132, 27947),

Gene: Jesabah_57 Start: 48890, Stop: 48522, Start Num: 64
Candidate Starts for Jesabah_57:
(14, 49094), (16, 49049), (18, 49019), (Start: 62 @48893 has 161 MA's), (Start: 64 @48890 has 134 MA's), (80, 48851), (97, 48770), (119, 48608), (120, 48605), (133, 48554),

Gene: Jessibeth14_25 Start: 8422, Stop: 8778, Start Num: 59
Candidate Starts for Jessibeth14_25:
(Start: 59 @8422 has 200 MA's), (112, 8629), (133, 8725),

Gene: Jezreel_25 Start: 8171, Stop: 8527, Start Num: 59
Candidate Starts for Jezreel_25:
(Start: 59 @8171 has 200 MA's), (98, 8285), (112, 8378), (133, 8474),

Gene: JigglyPuff_26 Start: 8695, Stop: 9051, Start Num: 59
Candidate Starts for JigglyPuff_26:
(Start: 59 @8695 has 200 MA's), (98, 8809), (112, 8902), (133, 8998),

Gene: Jillium_56 Start: 48884, Stop: 48513, Start Num: 62
Candidate Starts for Jillium_56:
(14, 49085), (16, 49040), (18, 49010), (Start: 62 @48884 has 161 MA's), (Start: 64 @48881 has 134 MA's), (80, 48842), (97, 48761), (119, 48599), (120, 48596), (133, 48545),

Gene: Jiminy_56 Start: 48200, Stop: 47832, Start Num: 64
Candidate Starts for Jiminy_56:
(8, 48563), (14, 48404), (16, 48359), (18, 48329), (Start: 62 @48203 has 161 MA's), (Start: 64 @48200 has 134 MA's), (80, 48161), (87, 48143), (95, 48089), (119, 47918), (120, 47915), (133, 47864),

Gene: Jiraiya_56 Start: 48353, Stop: 47985, Start Num: 64
Candidate Starts for Jiraiya_56:
(8, 48716), (14, 48557), (16, 48512), (18, 48482), (Start: 62 @48356 has 161 MA's), (Start: 64 @48353 has 134 MA's), (80, 48314), (87, 48296), (95, 48242), (119, 48071), (120, 48068), (133, 48017),

Gene: JohnLord_60 Start: 46724, Stop: 47107, Start Num: 55
Candidate Starts for JohnLord_60:
(25, 46652), (Start: 44 @46709 has 11 MA's), (55, 46724), (66, 46739), (80, 46775), (85, 46793), (112, 46958), (114, 46964), (119, 47003), (125, 47015), (131, 47036), (132, 47039), (133, 47054), (145, 47093), (147, 47096),

Gene: JoshKayV_37 Start: 27589, Stop: 27972, Start Num: 56
Candidate Starts for JoshKayV_37:
(Start: 56 @27589 has 79 MA's), (93, 27673), (110, 27781), (116, 27832), (119, 27862), (132, 27898), (139, 27937), (143, 27949),

Gene: JulietS_21 Start: 6576, Stop: 6932, Start Num: 59
Candidate Starts for JulietS_21:
(Start: 59 @6576 has 200 MA's), (112, 6783), (133, 6879),

Gene: JustASigh_40 Start: 31548, Stop: 31102, Start Num: 27
Candidate Starts for JustASigh_40:

(Start: 27 @31548 has 1 MA's), (30, 31539), (33, 31521), (Start: 60 @31479 has 1 MA's), (74, 31458), (79, 31443), (112, 31263), (124, 31194), (131, 31173), (132, 31170), (145, 31116),

Gene: JustHall_25 Start: 8599, Stop: 8955, Start Num: 59
Candidate Starts for JustHall_25:
(Start: 59 @8599 has 200 MA's), (98, 8713), (112, 8806), (133, 8902),

Gene: KLucky39_54 Start: 47698, Stop: 47327, Start Num: 62
Candidate Starts for KLucky39_54:
(14, 47899), (16, 47854), (18, 47824), (41, 47737), (Start: 62 @47698 has 161 MA's), (Start: 64 @47695 has 134 MA's), (80, 47656), (97, 47575), (119, 47413), (120, 47410), (133, 47359),

Gene: Kahve_56 Start: 48885, Stop: 48514, Start Num: 62
Candidate Starts for Kahve_56:
(14, 49086), (16, 49041), (18, 49011), (Start: 62 @48885 has 161 MA's), (Start: 64 @48882 has 134 MA's), (80, 48843), (97, 48762), (119, 48600), (120, 48597), (133, 48546),

Gene: Kailash_56 Start: 48722, Stop: 48351, Start Num: 62
Candidate Starts for Kailash_56:
(8, 49082), (14, 48923), (16, 48878), (18, 48848), (Start: 62 @48722 has 161 MA's), (Start: 64 @48719 has 134 MA's), (80, 48680), (87, 48662), (95, 48608), (97, 48599), (119, 48437), (120, 48434), (133, 48383),

Gene: Kamryn_26 Start: 8478, Stop: 8834, Start Num: 59
Candidate Starts for Kamryn_26:
(Start: 59 @8478 has 200 MA's), (98, 8592), (112, 8685), (133, 8781),

Gene: KandZ_55 Start: 42849, Stop: 43229, Start Num: 52
Candidate Starts for KandZ_55:
(Start: 52 @42849 has 22 MA's), (72, 42882), (73, 42885), (74, 42888), (92, 42942), (93, 42945), (111, 43065), (133, 43176), (134, 43179),

Gene: KarasumaRum_54 Start: 48662, Stop: 48249, Start Num: 45
Candidate Starts for KarasumaRum_54:
(Start: 45 @48662 has 33 MA's), (115, 48389), (122, 48344), (123, 48341), (132, 48314),

Gene: Karn_56 Start: 48363, Stop: 47992, Start Num: 62
Candidate Starts for Karn_56:
(8, 48723), (14, 48564), (16, 48519), (18, 48489), (Start: 62 @48363 has 161 MA's), (Start: 64 @48360 has 134 MA's), (80, 48321), (87, 48303), (95, 48249), (119, 48078), (120, 48075), (133, 48024),

Gene: Katniss_57 Start: 48324, Stop: 47953, Start Num: 62
Candidate Starts for Katniss_57:
(14, 48525), (16, 48480), (18, 48450), (Start: 62 @48324 has 161 MA's), (Start: 64 @48321 has 134 MA's), (80, 48282), (97, 48201), (119, 48039), (120, 48036), (133, 47985),

Gene: Kboogie_26 Start: 7632, Stop: 7988, Start Num: 59
Candidate Starts for Kboogie_26:
(Start: 59 @7632 has 200 MA's), (112, 7839), (133, 7935),

Gene: Keitherie_57 Start: 48703, Stop: 48332, Start Num: 62
Candidate Starts for Keitherie_57:

(8, 49063), (14, 48904), (16, 48859), (18, 48829), (41, 48742), (Start: 62 @48703 has 161 MA's), (Start: 64 @48700 has 134 MA's), (97, 48580), (119, 48418), (120, 48415), (133, 48364),

Gene: Keshu_77 Start: 50098, Stop: 50493, Start Num: 38
Candidate Starts for Keshu_77:
(Start: 38 @50098 has 6 MA's), (Start: 59 @50134 has 200 MA's), (78, 50170), (110, 50317), (112, 50332), (116, 50368), (132, 50434), (144, 50485),

Gene: Khaleesi_25 Start: 8449, Stop: 8805, Start Num: 59
Candidate Starts for Khaleesi_25:
(Start: 59 @8449 has 200 MA's), (112, 8656), (133, 8752),

Gene: Khan1_56 Start: 48838, Stop: 48470, Start Num: 64
Candidate Starts for Khan1_56:
(8, 49201), (14, 49042), (16, 48997), (18, 48967), (Start: 62 @48841 has 161 MA's), (Start: 64 @48838 has 134 MA's), (80, 48799), (95, 48727), (119, 48556), (120, 48553), (133, 48502),

Gene: Kikipoo_57 Start: 48876, Stop: 48505, Start Num: 62
Candidate Starts for Kikipoo_57:
(14, 49077), (16, 49032), (18, 49002), (Start: 62 @48876 has 161 MA's), (Start: 64 @48873 has 134 MA's), (80, 48834), (97, 48753), (119, 48591), (120, 48588), (133, 48537),

Gene: Kimbrough_57 Start: 48885, Stop: 48514, Start Num: 62
Candidate Starts for Kimbrough_57:
(14, 49086), (16, 49041), (18, 49011), (Start: 62 @48885 has 161 MA's), (Start: 64 @48882 has 134 MA's), (80, 48843), (97, 48762), (119, 48600), (120, 48597), (133, 48546),

Gene: Kinbote_43 Start: 33316, Stop: 32891, Start Num: 37
Candidate Starts for Kinbote_43:
(Start: 17 @33409 has 4 MA's), (Start: 37 @33316 has 17 MA's), (Start: 53 @33292 has 3 MA's), (74, 33250), (75, 33247), (82, 33226), (89, 33205), (93, 33175), (109, 33073), (132, 32959), (133, 32944), (134, 32941), (139, 32920), (148, 32899),

Gene: KingCyrus_38 Start: 28997, Stop: 29380, Start Num: 56
Candidate Starts for KingCyrus_38:
(Start: 56 @28997 has 79 MA's), (93, 29081), (110, 29189), (116, 29240), (119, 29270), (143, 29357),

Gene: KingPhillip3_75 Start: 47553, Stop: 47176, Start Num: 56
Candidate Starts for KingPhillip3_75:
(Start: 56 @47553 has 79 MA's), (81, 47493), (84, 47481), (96, 47418), (112, 47325), (114, 47319), (117, 47274), (130, 47229), (137, 47190), (138, 47187),

Gene: KingTut_48 Start: 44549, Stop: 44178, Start Num: 62
Candidate Starts for KingTut_48:
(14, 44750), (16, 44705), (18, 44675), (Start: 62 @44549 has 161 MA's), (Start: 64 @44546 has 134 MA's), (80, 44507), (97, 44426), (119, 44264), (120, 44261), (133, 44210),

Gene: KingVeVeVe_54 Start: 47652, Stop: 47281, Start Num: 62
Candidate Starts for KingVeVeVe_54:
(14, 47853), (16, 47808), (18, 47778), (41, 47691), (Start: 62 @47652 has 161 MA's), (Start: 64 @47649 has 134 MA's), (80, 47610), (97, 47529), (119, 47367), (120, 47364), (133, 47313),

Gene: Kiwot_58 Start: 48478, Stop: 48107, Start Num: 62

Candidate Starts for Kiwot_58:
(14, 48679), (16, 48634), (18, 48604), (41, 48517), (Start: 62 @48478 has 161 MA's), (Start: 64 @48475 has 134 MA's), (80, 48436), (95, 48364), (119, 48193), (120, 48190), (133, 48139),

Gene: KlimbOn_55 Start: 48341, Stop: 47973, Start Num: 64
Candidate Starts for KlimbOn_55:
(14, 48545), (16, 48500), (18, 48470), (41, 48383), (Start: 62 @48344 has 161 MA's), (Start: 64 @48341 has 134 MA's), (80, 48302), (97, 48221), (119, 48059), (120, 48056), (133, 48005),

Gene: Kloppinator_56 Start: 48181, Stop: 47813, Start Num: 64
Candidate Starts for Kloppinator_56:
(8, 48544), (14, 48385), (16, 48340), (18, 48310), (41, 48223), (Start: 62 @48184 has 161 MA's), (Start: 64 @48181 has 134 MA's), (97, 48061), (119, 47899), (120, 47896), (133, 47845),

Gene: Koguma_22 Start: 6919, Stop: 7275, Start Num: 59
Candidate Starts for Koguma_22:
(Start: 59 @6919 has 200 MA's), (112, 7126), (133, 7222),

Gene: Konstantine_75 Start: 52975, Stop: 53364, Start Num: 59
Candidate Starts for Konstantine_75:
(Start: 59 @52975 has 200 MA's), (73, 53002), (77, 53014), (92, 53059), (93, 53062), (98, 53092), (118, 53242), (136, 53314),

Gene: Krili_75 Start: 47097, Stop: 46720, Start Num: 56
Candidate Starts for Krili_75:
(Start: 56 @47097 has 79 MA's), (81, 47037), (84, 47025), (96, 46962), (112, 46869), (114, 46863), (117, 46818), (130, 46773), (137, 46734), (138, 46731),

Gene: Krueger_78 Start: 49845, Stop: 50228, Start Num: 46
Candidate Starts for Krueger_78:
(Start: 46 @49845 has 18 MA's), (Start: 59 @49866 has 200 MA's), (78, 49905), (84, 49920), (101, 49992), (106, 50031), (112, 50067), (116, 50103), (132, 50169),

Gene: Kwadwo_55 Start: 48337, Stop: 47966, Start Num: 62
Candidate Starts for Kwadwo_55:
(14, 48538), (16, 48493), (18, 48463), (Start: 62 @48337 has 161 MA's), (Start: 64 @48334 has 134 MA's), (80, 48295), (95, 48223), (119, 48052), (120, 48049), (133, 47998),

Gene: Kwksand96_56 Start: 48215, Stop: 47847, Start Num: 64
Candidate Starts for Kwksand96_56:
(8, 48578), (14, 48419), (16, 48374), (18, 48344), (Start: 62 @48218 has 161 MA's), (Start: 64 @48215 has 134 MA's), (80, 48176), (87, 48158), (95, 48104), (97, 48095), (119, 47933), (120, 47930), (133, 47879),

Gene: LRRHood_23 Start: 8842, Stop: 9198, Start Num: 59
Candidate Starts for LRRHood_23:
(Start: 59 @8842 has 200 MA's), (112, 9049), (133, 9145),

Gene: Labeouficaum_56 Start: 48209, Stop: 47841, Start Num: 64
Candidate Starts for Labeouficaum_56:
(8, 48572), (14, 48413), (16, 48368), (18, 48338), (Start: 62 @48212 has 161 MA's), (Start: 64 @48209 has 134 MA's), (80, 48170), (87, 48152), (95, 48098), (97, 48089), (119, 47927), (120, 47924), (133, 47873),

Gene: Labradorite_27 Start: 8150, Stop: 8506, Start Num: 59
Candidate Starts for Labradorite_27:
(Start: 59 @8150 has 200 MA's), (98, 8264), (112, 8357), (133, 8453),

Gene: Lambano_48 Start: 47161, Stop: 46760, Start Num: 47
Candidate Starts for Lambano_48:
(Start: 47 @47161 has 20 MA's), (74, 47113), (75, 47110), (76, 47107), (84, 47086), (127, 46840), (135, 46804),

Gene: Larenn_37 Start: 27686, Stop: 28081, Start Num: 56
Candidate Starts for Larenn_37:
(Start: 56 @27686 has 79 MA's), (79, 27734), (119, 27974), (121, 27980), (132, 28010),

Gene: Larson_58 Start: 48435, Stop: 48064, Start Num: 62
Candidate Starts for Larson_58:
(14, 48636), (16, 48591), (18, 48561), (Start: 62 @48435 has 161 MA's), (Start: 64 @48432 has 134 MA's), (80, 48393), (87, 48375), (95, 48321), (97, 48312), (119, 48150), (120, 48147), (133, 48096),

Gene: LasagnaCat_58 Start: 48749, Stop: 48378, Start Num: 62
Candidate Starts for LasagnaCat_58:
(14, 48950), (16, 48905), (18, 48875), (Start: 62 @48749 has 161 MA's), (Start: 64 @48746 has 134 MA's), (80, 48707), (97, 48626), (119, 48464), (120, 48461), (133, 48410),

Gene: Lasso_56 Start: 48612, Stop: 48241, Start Num: 62
Candidate Starts for Lasso_56:
(14, 48813), (16, 48768), (18, 48738), (Start: 62 @48612 has 161 MA's), (Start: 64 @48609 has 134 MA's), (80, 48570), (95, 48498), (119, 48327), (120, 48324), (133, 48273),

Gene: Latch_26 Start: 8154, Stop: 8510, Start Num: 59
Candidate Starts for Latch_26:
(Start: 59 @8154 has 200 MA's), (98, 8268), (112, 8361), (133, 8457),

Gene: Lea83_75 Start: 50034, Stop: 50417, Start Num: 38
Candidate Starts for Lea83_75:
(Start: 38 @50034 has 6 MA's), (Start: 59 @50070 has 200 MA's), (78, 50106), (94, 50160), (109, 50247), (110, 50253), (112, 50268), (132, 50370), (133, 50385),

Gene: Lee7_28 Start: 8696, Stop: 9052, Start Num: 59
Candidate Starts for Lee7_28:
(Start: 59 @8696 has 200 MA's), (112, 8903), (133, 8999),

Gene: LeeLot_56 Start: 48664, Stop: 48293, Start Num: 62
Candidate Starts for LeeLot_56:
(14, 48865), (16, 48820), (18, 48790), (Start: 62 @48664 has 161 MA's), (Start: 64 @48661 has 134 MA's), (80, 48622), (97, 48541), (119, 48379), (120, 48376), (133, 48325),

Gene: Lego3393_55 Start: 48876, Stop: 48505, Start Num: 62
Candidate Starts for Lego3393_55:
(14, 49077), (16, 49032), (18, 49002), (Start: 62 @48876 has 161 MA's), (Start: 64 @48873 has 134 MA's), (80, 48834), (97, 48753), (119, 48591), (120, 48588), (133, 48537),

Gene: Legolas_58 Start: 48763, Stop: 48392, Start Num: 62

Candidate Starts for Legolas_58:
(14, 48964), (16, 48919), (18, 48889), (Start: 62 @48763 has 161 MA's), (Start: 64 @48760 has 134 MA's), (80, 48721), (97, 48640), (119, 48478), (120, 48475), (133, 48424),

Gene: Lehmann_56 Start: 48235, Stop: 47864, Start Num: 62
Candidate Starts for Lehmann_56:
(14, 48436), (16, 48391), (18, 48361), (41, 48274), (Start: 62 @48235 has 161 MA's), (Start: 64 @48232 has 134 MA's), (80, 48193), (95, 48121), (97, 48112), (119, 47950), (120, 47947), (133, 47896),

Gene: LeiMonet_58 Start: 48279, Stop: 47911, Start Num: 64
Candidate Starts for LeiMonet_58:
(14, 48483), (16, 48438), (18, 48408), (41, 48321), (Start: 62 @48282 has 161 MA's), (Start: 64 @48279 has 134 MA's), (80, 48240), (95, 48168), (119, 47997), (120, 47994), (133, 47943),

Gene: LemonSlice_57 Start: 48354, Stop: 47983, Start Num: 62
Candidate Starts for LemonSlice_57:
(14, 48555), (16, 48510), (18, 48480), (Start: 62 @48354 has 161 MA's), (Start: 64 @48351 has 134 MA's), (80, 48312), (87, 48294), (95, 48240), (97, 48231), (119, 48069), (120, 48066), (133, 48015),

Gene: Lethe_25 Start: 8393, Stop: 8749, Start Num: 59
Candidate Starts for Lethe_25:
(Start: 59 @8393 has 200 MA's), (112, 8600), (133, 8696),

Gene: Leviathan_37 Start: 27676, Stop: 28074, Start Num: 56
Candidate Starts for Leviathan_37:
(Start: 56 @27676 has 79 MA's), (79, 27724), (119, 27967), (121, 27973), (132, 28003),

Gene: LifeSavor_27 Start: 8150, Stop: 8506, Start Num: 59
Candidate Starts for LifeSavor_27:
(Start: 59 @8150 has 200 MA's), (98, 8264), (112, 8357), (133, 8453),

Gene: LilHazelnut_43 Start: 33316, Stop: 32891, Start Num: 37
Candidate Starts for LilHazelnut_43:
(Start: 17 @33409 has 4 MA's), (Start: 37 @33316 has 17 MA's), (Start: 53 @33292 has 3 MA's), (74, 33250), (75, 33247), (82, 33226), (89, 33205), (93, 33175), (109, 33073), (132, 32959), (133, 32944), (134, 32941), (139, 32920), (148, 32899),

Gene: LilTurb_36 Start: 27509, Stop: 27907, Start Num: 56
Candidate Starts for LilTurb_36:
(Start: 56 @27509 has 79 MA's), (79, 27557), (119, 27800), (121, 27806), (132, 27836),

Gene: LinStu_26 Start: 9052, Stop: 9408, Start Num: 59
Candidate Starts for LinStu_26:
(Start: 59 @9052 has 200 MA's), (112, 9259), (133, 9355),

Gene: LionsBait_35 Start: 28638, Stop: 28988, Start Num: 71
Candidate Starts for LionsBait_35:
(Start: 29 @28545 has 1 MA's), (70, 28635), (Start: 71 @28638 has 5 MA's), (93, 28689), (100, 28731), (119, 28881), (128, 28905),

Gene: LittleDigger_48 Start: 47174, Stop: 46776, Start Num: 47
Candidate Starts for LittleDigger_48:

(Start: 47 @47174 has 20 MA's), (74, 47126), (75, 47123), (84, 47102), (127, 46856), (135, 46820),

Gene: Littleton_26 Start: 8154, Stop: 8510, Start Num: 59
Candidate Starts for Littleton_26:
(Start: 59 @8154 has 200 MA's), (98, 8268), (112, 8361), (133, 8457),

Gene: Loanshark_26 Start: 8699, Stop: 9055, Start Num: 59
Candidate Starts for Loanshark_26:
(Start: 59 @8699 has 200 MA's), (112, 8906), (133, 9002),

Gene: Lokk_39 Start: 28500, Stop: 28871, Start Num: 71
Candidate Starts for Lokk_39:
(Start: 71 @28500 has 5 MA's), (101, 28617), (112, 28692), (119, 28758), (132, 28794), (139, 28833), (143, 28845), (147, 28851),

Gene: LolaVinca_29 Start: 9911, Stop: 10267, Start Num: 59
Candidate Starts for LolaVinca_29:
(Start: 59 @9911 has 200 MA's), (98, 10025), (112, 10118), (133, 10214),

Gene: Lolalove_50 Start: 48182, Stop: 47784, Start Num: 47
Candidate Starts for Lolalove_50:
(5, 48515), (Start: 47 @48182 has 20 MA's), (74, 48134), (75, 48131), (84, 48110), (120, 47885), (127, 47864), (135, 47828),

Gene: Longacauda_57 Start: 48726, Stop: 48355, Start Num: 62
Candidate Starts for Longacauda_57:
(14, 48927), (16, 48882), (18, 48852), (Start: 62 @48726 has 161 MA's), (Start: 64 @48723 has 134 MA's), (80, 48684), (97, 48603), (119, 48441), (120, 48438), (133, 48387),

Gene: LookingGlass_29 Start: 9473, Stop: 9829, Start Num: 59
Candidate Starts for LookingGlass_29:
(Start: 59 @9473 has 200 MA's), (98, 9587), (112, 9680), (133, 9776),

Gene: Lopsy_53 Start: 47237, Stop: 46869, Start Num: 64
Candidate Starts for Lopsy_53:
(14, 47441), (16, 47396), (18, 47366), (41, 47279), (Start: 62 @47240 has 161 MA's), (Start: 64 @47237 has 134 MA's), (80, 47198), (95, 47126), (97, 47117), (119, 46955), (120, 46952), (133, 46901),

Gene: LordLeafolot_32 Start: 10269, Stop: 10625, Start Num: 59
Candidate Starts for LordLeafolot_32:
(Start: 59 @10269 has 200 MA's), (98, 10383), (112, 10476), (133, 10572),

Gene: LostAndPhound_56 Start: 48369, Stop: 47998, Start Num: 62
Candidate Starts for LostAndPhound_56:
(14, 48570), (16, 48525), (18, 48495), (Start: 62 @48369 has 161 MA's), (Start: 64 @48366 has 134 MA's), (80, 48327), (95, 48255), (119, 48084), (120, 48081), (133, 48030),

Gene: LuckyMarjie_54 Start: 48045, Stop: 47674, Start Num: 62
Candidate Starts for LuckyMarjie_54:
(14, 48246), (16, 48201), (18, 48171), (41, 48084), (Start: 62 @48045 has 161 MA's), (Start: 64 @48042 has 134 MA's), (97, 47922), (119, 47760), (120, 47757), (133, 47706),

Gene: Luke_43 Start: 33271, Stop: 32846, Start Num: 37
Candidate Starts for Luke_43:
(Start: 17 @33364 has 4 MA's), (Start: 37 @33271 has 17 MA's), (Start: 53 @33247 has 3 MA's), (74, 33205), (75, 33202), (82, 33181), (89, 33160), (93, 33130), (109, 33028), (132, 32914), (133, 32899), (134, 32896), (139, 32875), (148, 32854),

Gene: Lukilu_19 Start: 7293, Stop: 7649, Start Num: 59
Candidate Starts for Lukilu_19:
(Start: 59 @7293 has 200 MA's), (112, 7500), (133, 7596),

Gene: Lulumae_54 Start: 48030, Stop: 47659, Start Num: 62
Candidate Starts for Lulumae_54:
(14, 48231), (16, 48186), (18, 48156), (41, 48069), (Start: 62 @48030 has 161 MA's), (Start: 64 @48027 has 134 MA's), (97, 47907), (119, 47745), (120, 47742), (133, 47691),

Gene: Lulwa_54 Start: 47669, Stop: 47298, Start Num: 62
Candidate Starts for Lulwa_54:
(14, 47870), (16, 47825), (18, 47795), (Start: 62 @47669 has 161 MA's), (Start: 64 @47666 has 134 MA's), (80, 47627), (95, 47555), (119, 47384), (120, 47381), (133, 47330),

Gene: Lumine_57 Start: 48514, Stop: 48143, Start Num: 62
Candidate Starts for Lumine_57:
(14, 48715), (16, 48670), (18, 48640), (Start: 62 @48514 has 161 MA's), (Start: 64 @48511 has 134 MA's), (80, 48472), (97, 48391), (119, 48229), (120, 48226), (133, 48175),

Gene: Luna22_41 Start: 33316, Stop: 32891, Start Num: 37
Candidate Starts for Luna22_41:
(Start: 17 @33409 has 4 MA's), (Start: 37 @33316 has 17 MA's), (Start: 53 @33292 has 3 MA's), (74, 33250), (75, 33247), (82, 33226), (89, 33205), (93, 33175), (109, 33073), (132, 32959), (133, 32944), (134, 32941), (139, 32920), (148, 32899),

Gene: Lunareta_25 Start: 8433, Stop: 8789, Start Num: 59
Candidate Starts for Lunareta_25:
(Start: 59 @8433 has 200 MA's), (112, 8640), (133, 8736),

Gene: MRabcd_55 Start: 48427, Stop: 48056, Start Num: 62
Candidate Starts for MRabcd_55:
(14, 48628), (16, 48583), (18, 48553), (Start: 62 @48427 has 161 MA's), (Start: 64 @48424 has 134 MA's), (80, 48385), (95, 48313), (119, 48142), (120, 48139), (133, 48088),

Gene: Maby2021_27 Start: 8699, Stop: 9055, Start Num: 59
Candidate Starts for Maby2021_27:
(Start: 59 @8699 has 200 MA's), (112, 8906), (133, 9002),

Gene: MacnCheese_77 Start: 50498, Stop: 50944, Start Num: 24
Candidate Starts for MacnCheese_77:
(Start: 24 @50498 has 1 MA's), (Start: 46 @50567 has 18 MA's), (Start: 56 @50582 has 79 MA's), (Start: 59 @50588 has 200 MA's), (67, 50603), (78, 50618), (80, 50624), (101, 50708), (110, 50768), (112, 50783), (129, 50876),

Gene: MadKillah_77 Start: 47366, Stop: 46989, Start Num: 56
Candidate Starts for MadKillah_77:

(Start: 56 @47366 has 79 MA's), (81, 47306), (84, 47294), (96, 47231), (112, 47138), (114, 47132), (117, 47087), (130, 47042), (137, 47003), (138, 47000),

Gene: Mag7_56 Start: 48272, Stop: 47901, Start Num: 62
Candidate Starts for Mag7_56:
(8, 48632), (14, 48473), (16, 48428), (18, 48398), (Start: 62 @48272 has 161 MA's), (Start: 64 @48269 has 134 MA's), (80, 48230), (87, 48212), (95, 48158), (97, 48149), (119, 47987), (120, 47984), (133, 47933),

Gene: Magic8_57 Start: 48665, Stop: 48297, Start Num: 64
Candidate Starts for Magic8_57:
(14, 48869), (16, 48824), (18, 48794), (Start: 62 @48668 has 161 MA's), (Start: 64 @48665 has 134 MA's), (80, 48626), (97, 48545), (119, 48383), (120, 48380), (133, 48329),

Gene: Magpie_48 Start: 48017, Stop: 47619, Start Num: 47
Candidate Starts for Magpie_48:
(Start: 47 @48017 has 20 MA's), (74, 47969), (75, 47966), (84, 47945), (120, 47720), (127, 47699), (135, 47663),

Gene: Magsby_42 Start: 30667, Stop: 31065, Start Num: 45
Candidate Starts for Magsby_42:
(Start: 45 @30667 has 33 MA's), (75, 30718), (80, 30733), (112, 30916), (114, 30922), (125, 30973), (131, 30994), (132, 30997), (133, 31012), (139, 31036), (145, 31051), (147, 31054),

Gene: Maguvora_32 Start: 10271, Stop: 10627, Start Num: 59
Candidate Starts for Maguvora_32:
(Start: 59 @10271 has 200 MA's), (98, 10385), (112, 10478), (133, 10574),

Gene: Malec_38 Start: 28247, Stop: 28645, Start Num: 56
Candidate Starts for Malec_38:
(Start: 56 @28247 has 79 MA's), (100, 28388), (119, 28538), (121, 28544), (132, 28574),

Gene: Mana_55 Start: 48352, Stop: 47981, Start Num: 62
Candidate Starts for Mana_55:
(14, 48553), (16, 48508), (18, 48478), (Start: 62 @48352 has 161 MA's), (Start: 64 @48349 has 134 MA's), (80, 48310), (95, 48238), (119, 48067), (120, 48064), (133, 48013),

Gene: Manad_55 Start: 48327, Stop: 47956, Start Num: 62
Candidate Starts for Manad_55:
(14, 48528), (16, 48483), (18, 48453), (41, 48366), (Start: 62 @48327 has 161 MA's), (Start: 64 @48324 has 134 MA's), (80, 48285), (95, 48213), (97, 48204), (119, 48042), (120, 48039), (133, 47988),

Gene: Mangeria_29 Start: 9225, Stop: 9581, Start Num: 59
Candidate Starts for Mangeria_29:
(Start: 59 @9225 has 200 MA's), (98, 9339), (112, 9432), (133, 9528),

Gene: Mao1_56 Start: 45715, Stop: 46089, Start Num: 36
Candidate Starts for Mao1_56:
(22, 45658), (Start: 36 @45715 has 1 MA's), (Start: 44 @45730 has 11 MA's), (Start: 53 @45745 has 3 MA's), (73, 45781), (84, 45808), (112, 45958), (132, 46036), (133, 46051),

Gene: Marcoliusprime_39 Start: 31497, Stop: 31114, Start Num: 40

Candidate Starts for Marcoliusprime_39:
(Start: 40 @31497 has 11 MA's), (78, 31437), (94, 31374), (104, 31323), (112, 31266), (121, 31194), (133, 31149), (134, 31146), (139, 31125),

Gene: MarkPhew_75 Start: 49591, Stop: 49965, Start Num: 46
Candidate Starts for MarkPhew_75:
(Start: 46 @49591 has 18 MA's), (80, 49648), (94, 49696), (104, 49747), (106, 49768), (112, 49804), (116, 49840), (122, 49879), (129, 49897), (132, 49906), (133, 49921),

Gene: Marshawn_72 Start: 49975, Stop: 50358, Start Num: 46
Candidate Starts for Marshawn_72:
(Start: 46 @49975 has 18 MA's), (Start: 50 @49981 has 1 MA's), (78, 50035), (79, 50038), (84, 50050), (101, 50122), (104, 50140), (106, 50161), (112, 50197), (116, 50233), (122, 50272), (129, 50290), (132, 50299), (146, 50353),

Gene: Maru_56 Start: 48788, Stop: 48420, Start Num: 64
Candidate Starts for Maru_56:
(14, 48992), (16, 48947), (18, 48917), (Start: 62 @48791 has 161 MA's), (Start: 64 @48788 has 134 MA's), (80, 48749), (95, 48677), (119, 48506), (120, 48503), (133, 48452),

Gene: Mask_57 Start: 48051, Stop: 48449, Start Num: 44
Candidate Starts for Mask_57:
(Start: 44 @48051 has 11 MA's), (66, 48081), (80, 48117), (112, 48300), (114, 48306), (119, 48345), (125, 48357), (131, 48378), (132, 48381), (133, 48396), (145, 48435), (147, 48438),

Gene: Maskar_57 Start: 48338, Stop: 47967, Start Num: 62
Candidate Starts for Maskar_57:
(8, 48698), (14, 48539), (16, 48494), (18, 48464), (Start: 62 @48338 has 161 MA's), (Start: 64 @48335 has 134 MA's), (80, 48296), (87, 48278), (95, 48224), (97, 48215), (119, 48053), (120, 48050), (133, 47999),

Gene: Matalotodo_55 Start: 48362, Stop: 47991, Start Num: 62
Candidate Starts for Matalotodo_55:
(14, 48563), (16, 48518), (18, 48488), (Start: 62 @48362 has 161 MA's), (Start: 64 @48359 has 134 MA's), (80, 48320), (97, 48239), (119, 48077), (120, 48074), (133, 48023),

Gene: Matsumoto_25 Start: 8115, Stop: 8471, Start Num: 59
Candidate Starts for Matsumoto_25:
(Start: 59 @8115 has 200 MA's), (98, 8229), (112, 8322), (133, 8418),

Gene: Maturis_26 Start: 8472, Stop: 8828, Start Num: 59
Candidate Starts for Maturis_26:
(Start: 59 @8472 has 200 MA's), (112, 8679), (133, 8775),

Gene: McGee_25 Start: 7341, Stop: 7697, Start Num: 59
Candidate Starts for McGee_25:
(Start: 59 @7341 has 200 MA's), (112, 7548), (133, 7644),

Gene: McWolfish_25 Start: 8449, Stop: 8805, Start Num: 59
Candidate Starts for McWolfish_25:
(Start: 59 @8449 has 200 MA's), (112, 8656), (133, 8752),

Gene: Mcshane_55 Start: 48347, Stop: 47979, Start Num: 64

Candidate Starts for Mcshane_55:
(14, 48551), (16, 48506), (18, 48476), (Start: 62 @48350 has 161 MA's), (Start: 64 @48347 has 134 MA's), (80, 48308), (97, 48227), (119, 48065), (120, 48062), (133, 48011),

Gene: Mecca_56 Start: 48873, Stop: 48502, Start Num: 62
Candidate Starts for Mecca_56:
(14, 49074), (16, 49029), (18, 48999), (Start: 62 @48873 has 161 MA's), (Start: 64 @48870 has 134 MA's), (80, 48831), (97, 48750), (119, 48588), (120, 48585), (133, 48534),

Gene: Megabear_44 Start: 40128, Stop: 40529, Start Num: 44
Candidate Starts for Megabear_44:
(Start: 44 @40128 has 11 MA's), (Start: 53 @40143 has 3 MA's), (109, 40359), (110, 40365), (112, 40380), (126, 40440), (131, 40458), (132, 40461), (133, 40476), (145, 40515), (147, 40518),

Gene: Megamind_26 Start: 8690, Stop: 9046, Start Num: 59
Candidate Starts for Megamind_26:
(Start: 59 @8690 has 200 MA's), (98, 8804), (112, 8897), (133, 8993),

Gene: Megamind20_57 Start: 48338, Stop: 47967, Start Num: 62
Candidate Starts for Megamind20_57:
(14, 48539), (16, 48494), (18, 48464), (Start: 62 @48338 has 161 MA's), (Start: 64 @48335 has 134 MA's), (80, 48296), (97, 48215), (119, 48053), (120, 48050), (133, 47999),

Gene: Megatron_57 Start: 48864, Stop: 48493, Start Num: 62
Candidate Starts for Megatron_57:
(14, 49065), (16, 49020), (18, 48990), (Start: 62 @48864 has 161 MA's), (Start: 64 @48861 has 134 MA's), (80, 48822), (97, 48741), (119, 48579), (120, 48576), (133, 48525),

Gene: Megatron06_72 Start: 52721, Stop: 53110, Start Num: 59
Candidate Starts for Megatron06_72:
(Start: 59 @52721 has 200 MA's), (73, 52748), (77, 52760), (92, 52805), (93, 52808), (98, 52838), (118, 52988), (136, 53060),

Gene: Melc17_56 Start: 49179, Stop: 48811, Start Num: 64
Candidate Starts for Melc17_56:
(14, 49383), (16, 49338), (18, 49308), (Start: 62 @49182 has 161 MA's), (Start: 64 @49179 has 134 MA's), (80, 49140), (97, 49059), (119, 48897), (120, 48894), (133, 48843),

Gene: Melpomini_25 Start: 7556, Stop: 7912, Start Num: 59
Candidate Starts for Melpomini_25:
(Start: 59 @7556 has 200 MA's), (98, 7670), (112, 7763), (133, 7859),

Gene: MelsMeow_56 Start: 48391, Stop: 48020, Start Num: 62
Candidate Starts for MelsMeow_56:
(8, 48751), (14, 48592), (16, 48547), (18, 48517), (Start: 62 @48391 has 161 MA's), (Start: 64 @48388 has 134 MA's), (80, 48349), (87, 48331), (95, 48277), (97, 48268), (119, 48106), (120, 48103), (133, 48052),

Gene: Melville_45 Start: 30651, Stop: 31049, Start Num: 45
Candidate Starts for Melville_45:
(Start: 45 @30651 has 33 MA's), (75, 30702), (80, 30717), (112, 30900), (114, 30906), (125, 30957), (131, 30978), (132, 30981), (133, 30996), (139, 31020), (145, 31035), (147, 31038),

Gene: Mendokysei_38 Start: 30582, Stop: 30983, Start Num: 42
Candidate Starts for Mendokysei_38:
(Start: 42 @30582 has 5 MA's), (Start: 53 @30600 has 3 MA's), (79, 30648), (108, 30807), (112, 30831), (133, 30951),

Gene: Mesh1_57 Start: 48881, Stop: 48513, Start Num: 64
Candidate Starts for Mesh1_57:
(14, 49085), (16, 49040), (18, 49010), (Start: 62 @48884 has 161 MA's), (Start: 64 @48881 has 134 MA's), (80, 48842), (95, 48770), (119, 48599), (120, 48596), (133, 48545),

Gene: Mesmerelda_55 Start: 48321, Stop: 47953, Start Num: 64
Candidate Starts for Mesmerelda_55:
(14, 48525), (16, 48480), (18, 48450), (Start: 62 @48324 has 161 MA's), (Start: 64 @48321 has 134 MA's), (80, 48282), (97, 48201), (119, 48039), (120, 48036), (133, 47985),

Gene: MichaelPhcott_56 Start: 48266, Stop: 47898, Start Num: 64
Candidate Starts for MichaelPhcott_56:
(8, 48629), (14, 48470), (16, 48425), (18, 48395), (Start: 62 @48269 has 161 MA's), (Start: 64 @48266 has 134 MA's), (80, 48227), (87, 48209), (95, 48155), (97, 48146), (119, 47984), (120, 47981), (133, 47930),

Gene: MiculUcigas_36 Start: 27376, Stop: 27771, Start Num: 56
Candidate Starts for MiculUcigas_36:
(Start: 56 @27376 has 79 MA's), (116, 27634), (119, 27664), (132, 27700),

Gene: MikeLiesIn_26 Start: 8699, Stop: 9055, Start Num: 59
Candidate Starts for MikeLiesIn_26:
(Start: 59 @8699 has 200 MA's), (112, 8906), (133, 9002),

Gene: Miko_39 Start: 28708, Stop: 29079, Start Num: 71
Candidate Starts for Miko_39:
(Start: 71 @28708 has 5 MA's), (101, 28825), (112, 28900), (116, 28936), (119, 28966), (132, 29002), (139, 29041), (143, 29053), (147, 29059),

Gene: Mikota_54 Start: 47646, Stop: 47278, Start Num: 64
Candidate Starts for Mikota_54:
(14, 47850), (16, 47805), (18, 47775), (41, 47688), (Start: 62 @47649 has 161 MA's), (Start: 64 @47646 has 134 MA's), (80, 47607), (97, 47526), (119, 47364), (120, 47361), (133, 47310),

Gene: Mikro_24 Start: 9185, Stop: 9541, Start Num: 59
Candidate Starts for Mikro_24:
(Start: 59 @9185 has 200 MA's), (98, 9299), (112, 9392), (133, 9488),

Gene: Milly_39 Start: 31470, Stop: 31087, Start Num: 40
Candidate Starts for Milly_39:
(Start: 40 @31470 has 11 MA's), (78, 31410), (94, 31347), (104, 31296), (112, 31239), (121, 31167), (133, 31122), (139, 31098),

Gene: MiniBoss_54 Start: 47652, Stop: 47284, Start Num: 64
Candidate Starts for MiniBoss_54:
(14, 47856), (16, 47811), (18, 47781), (41, 47694), (Start: 62 @47655 has 161 MA's), (Start: 64 @47652 has 134 MA's), (80, 47613), (97, 47532), (119, 47370), (120, 47367), (133, 47316),

Gene: MitKao_56 Start: 48359, Stop: 47991, Start Num: 64
Candidate Starts for MitKao_56:
(14, 48563), (16, 48518), (18, 48488), (Start: 62 @48362 has 161 MA's), (Start: 64 @48359 has 134 MA's), (80, 48320), (95, 48248), (119, 48077), (120, 48074), (133, 48023),

Gene: MoMoMixon_27 Start: 9016, Stop: 9372, Start Num: 59
Candidate Starts for MoMoMixon_27:
(Start: 59 @9016 has 200 MA's), (112, 9223), (133, 9319),

Gene: Moby_20 Start: 5697, Stop: 6053, Start Num: 59
Candidate Starts for Moby_20:
(Start: 59 @5697 has 200 MA's), (112, 5904), (133, 6000),

Gene: Moiqah_20 Start: 5697, Stop: 6053, Start Num: 59
Candidate Starts for Moiqah_20:
(Start: 59 @5697 has 200 MA's), (112, 5904), (133, 6000),

Gene: Momo_25 Start: 8154, Stop: 8510, Start Num: 59
Candidate Starts for Momo_25:
(Start: 59 @8154 has 200 MA's), (98, 8268), (112, 8361), (133, 8457),

Gene: Montpel_25 Start: 8433, Stop: 8789, Start Num: 59
Candidate Starts for Montpel_25:
(Start: 59 @8433 has 200 MA's), (112, 8640), (133, 8736),

Gene: MontyDev_56 Start: 42299, Stop: 42769, Start Num: 20
Candidate Starts for MontyDev_56:
(Start: 20 @42299 has 6 MA's), (Start: 31 @42338 has 2 MA's), (Start: 47 @42368 has 20 MA's), (Start: 54 @42380 has 5 MA's), (Start: 60 @42392 has 1 MA's), (69, 42407), (74, 42413), (90, 42464), (107, 42578), (112, 42608), (131, 42698), (132, 42701), (133, 42716),

Gene: Mopey_57 Start: 42726, Stop: 43106, Start Num: 52
Candidate Starts for Mopey_57:
(Start: 52 @42726 has 22 MA's), (72, 42759), (73, 42762), (74, 42765), (92, 42819), (93, 42822), (111, 42942), (133, 43053), (134, 43056),

Gene: Morgushi_56 Start: 48348, Stop: 47980, Start Num: 64
Candidate Starts for Morgushi_56:
(14, 48552), (16, 48507), (18, 48477), (Start: 62 @48351 has 161 MA's), (Start: 64 @48348 has 134 MA's), (80, 48309), (95, 48237), (119, 48066), (120, 48063), (133, 48012),

Gene: Mori_76 Start: 47628, Stop: 47251, Start Num: 56
Candidate Starts for Mori_76:
(Start: 56 @47628 has 79 MA's), (81, 47568), (84, 47556), (96, 47493), (112, 47400), (114, 47394), (117, 47349), (130, 47304), (137, 47265), (138, 47262),

Gene: Morizzled23_25 Start: 7556, Stop: 7912, Start Num: 59
Candidate Starts for Morizzled23_25:
(Start: 59 @7556 has 200 MA's), (98, 7670), (112, 7763), (133, 7859),

Gene: Morty_57 Start: 48873, Stop: 48502, Start Num: 62
Candidate Starts for Morty_57:

(14, 49074), (16, 49029), (18, 48999), (Start: 62 @48873 has 161 MA's), (Start: 64 @48870 has 134 MA's), (80, 48831), (97, 48750), (119, 48588), (120, 48585), (133, 48534),

Gene: Mosaic_55 Start: 48356, Stop: 47985, Start Num: 62
Candidate Starts for Mosaic_55:
(14, 48557), (16, 48512), (18, 48482), (Start: 62 @48356 has 161 MA's), (Start: 64 @48353 has 134 MA's), (80, 48314), (95, 48242), (119, 48071), (120, 48068), (133, 48017),

Gene: MrMiyagi_55 Start: 39832, Stop: 40308, Start Num: 21
Candidate Starts for MrMiyagi_55:
(Start: 21 @39832 has 2 MA's), (35, 39886), (Start: 49 @39913 has 1 MA's), (51, 39916), (74, 39961), (77, 39970), (88, 39997), (93, 40024), (134, 40255),

Gene: MrPhizzler_58 Start: 48815, Stop: 48447, Start Num: 64
Candidate Starts for MrPhizzler_58:
(8, 49178), (14, 49019), (16, 48974), (18, 48944), (Start: 62 @48818 has 161 MA's), (Start: 64 @48815 has 134 MA's), (80, 48776), (95, 48704), (119, 48533), (120, 48530), (133, 48479),

Gene: Mudslide_49 Start: 48447, Stop: 48049, Start Num: 47
Candidate Starts for Mudslide_49:
(Start: 47 @48447 has 20 MA's), (74, 48399), (75, 48396), (84, 48375), (120, 48150), (127, 48129), (135, 48093),

Gene: Mufasa_40 Start: 31391, Stop: 31008, Start Num: 40
Candidate Starts for Mufasa_40:
(Start: 40 @31391 has 11 MA's), (78, 31331), (94, 31268), (104, 31217), (109, 31181), (112, 31160), (121, 31088), (133, 31043),

Gene: Mulan_56 Start: 48587, Stop: 48219, Start Num: 64
Candidate Starts for Mulan_56:
(14, 48791), (16, 48746), (18, 48716), (Start: 62 @48590 has 161 MA's), (Start: 64 @48587 has 134 MA's), (80, 48548), (97, 48467), (119, 48305), (120, 48302), (133, 48251),

Gene: Murai_76 Start: 47760, Stop: 47383, Start Num: 56
Candidate Starts for Murai_76:
(Start: 56 @47760 has 79 MA's), (81, 47700), (84, 47688), (96, 47625), (112, 47532), (114, 47526), (117, 47481), (130, 47436), (137, 47397), (138, 47394),

Gene: Murdoc_55 Start: 48349, Stop: 47981, Start Num: 64
Candidate Starts for Murdoc_55:
(14, 48553), (16, 48508), (18, 48478), (Start: 62 @48352 has 161 MA's), (Start: 64 @48349 has 134 MA's), (80, 48310), (97, 48229), (119, 48067), (120, 48064), (133, 48013),

Gene: Mutante_56 Start: 48359, Stop: 47991, Start Num: 64
Candidate Starts for Mutante_56:
(14, 48563), (16, 48518), (18, 48488), (Start: 62 @48362 has 161 MA's), (Start: 64 @48359 has 134 MA's), (80, 48320), (97, 48239), (119, 48077), (120, 48074), (133, 48023),

Gene: Mysterious_52 Start: 48647, Stop: 48231, Start Num: 45
Candidate Starts for Mysterious_52:
(4, 49025), (6, 48980), (7, 48977), (Start: 45 @48647 has 33 MA's), (74, 48593), (120, 48332),

Gene: NaSiaTalie_36 Start: 27374, Stop: 27769, Start Num: 56

Candidate Starts for NaSiaTalie_36:
(Start: 56 @27374 has 79 MA's), (116, 27632), (119, 27662), (132, 27698),

Gene: Nacho_0057 Start: 48867, Stop: 48496, Start Num: 62
Candidate Starts for Nacho_0057:
(14, 49068), (16, 49023), (18, 48993), (Start: 62 @48867 has 161 MA's), (Start: 64 @48864 has 134 MA's), (80, 48825), (97, 48744), (119, 48582), (120, 48579), (133, 48528),

Gene: Naija_26 Start: 8154, Stop: 8510, Start Num: 59
Candidate Starts for Naija_26:
(Start: 59 @8154 has 200 MA's), (98, 8268), (112, 8361), (133, 8457),

Gene: Nairb_39 Start: 31045, Stop: 31446, Start Num: 42
Candidate Starts for Nairb_39:
(12, 30802), (Start: 42 @31045 has 5 MA's), (Start: 53 @31063 has 3 MA's), (101, 31219), (108, 31270), (112, 31294), (133, 31414), (134, 31417),

Gene: Nanao_48 Start: 47151, Stop: 46753, Start Num: 47
Candidate Starts for Nanao_48:
(Start: 47 @47151 has 20 MA's), (74, 47103), (75, 47100), (84, 47079), (127, 46833), (135, 46797),

Gene: Nangang_54 Start: 48876, Stop: 48463, Start Num: 45
Candidate Starts for Nangang_54:
(4, 49254), (6, 49209), (7, 49206), (Start: 45 @48876 has 33 MA's), (80, 48804), (122, 48558), (123, 48555), (132, 48528),

Gene: Napoleon13_25 Start: 7575, Stop: 7931, Start Num: 59
Candidate Starts for Napoleon13_25:
(Start: 59 @7575 has 200 MA's), (98, 7689), (112, 7782), (133, 7878),

Gene: Nappy_27 Start: 8863, Stop: 9219, Start Num: 59
Candidate Starts for Nappy_27:
(Start: 59 @8863 has 200 MA's), (98, 8977), (112, 9070), (133, 9166),

Gene: Nathan_57 Start: 48443, Stop: 48072, Start Num: 62
Candidate Starts for Nathan_57:
(14, 48644), (16, 48599), (18, 48569), (41, 48482), (Start: 62 @48443 has 161 MA's), (Start: 64 @48440 has 134 MA's), (97, 48320), (119, 48158), (120, 48155), (133, 48104),

Gene: Naval22_28 Start: 8739, Stop: 9095, Start Num: 59
Candidate Starts for Naval22_28:
(Start: 59 @8739 has 200 MA's), (98, 8853), (112, 8946), (133, 9042),

Gene: NedWong_27 Start: 8699, Stop: 9055, Start Num: 59
Candidate Starts for NedWong_27:
(Start: 59 @8699 has 200 MA's), (112, 8906), (133, 9002),

Gene: Nehemiah_53 Start: 48647, Stop: 48231, Start Num: 45
Candidate Starts for Nehemiah_53:
(4, 49025), (6, 48980), (7, 48977), (Start: 45 @48647 has 33 MA's), (74, 48593), (120, 48332),

Gene: Nehme_55 Start: 48648, Stop: 48277, Start Num: 62
Candidate Starts for Nehme_55:

(8, 49008), (14, 48849), (16, 48804), (18, 48774), (Start: 62 @48648 has 161 MA's), (Start: 64 @48645 has 134 MA's), (80, 48606), (87, 48588), (95, 48534), (97, 48525), (119, 48363), (120, 48360), (133, 48309),

Gene: Nette_41 Start: 30591, Stop: 30992, Start Num: 42
Candidate Starts for Nette_41:
(Start: 42 @30591 has 5 MA's), (Start: 53 @30609 has 3 MA's), (79, 30657), (108, 30816), (112, 30840), (133, 30960),

Gene: Newman_55 Start: 48347, Stop: 47976, Start Num: 62
Candidate Starts for Newman_55:
(14, 48548), (16, 48503), (18, 48473), (41, 48386), (Start: 62 @48347 has 161 MA's), (Start: 64 @48344 has 134 MA's), (80, 48305), (95, 48233), (119, 48062), (120, 48059), (133, 48008),

Gene: Ngannou_24 Start: 7330, Stop: 7686, Start Num: 59
Candidate Starts for Ngannou_24:
(Start: 59 @7330 has 200 MA's), (98, 7444), (112, 7537), (133, 7633),

Gene: NiaNia_59 Start: 48343, Stop: 47972, Start Num: 62
Candidate Starts for NiaNia_59:
(14, 48544), (16, 48499), (18, 48469), (Start: 62 @48343 has 161 MA's), (Start: 64 @48340 has 134 MA's), (80, 48301), (97, 48220), (119, 48058), (120, 48055), (133, 48004),

Gene: Nicole21_57 Start: 48596, Stop: 48228, Start Num: 64
Candidate Starts for Nicole21_57:
(14, 48800), (16, 48755), (18, 48725), (Start: 62 @48599 has 161 MA's), (Start: 64 @48596 has 134 MA's), (80, 48557), (97, 48476), (119, 48314), (120, 48311), (133, 48260),

Gene: Nidhogg_27 Start: 8769, Stop: 9125, Start Num: 59
Candidate Starts for Nidhogg_27:
(Start: 59 @8769 has 200 MA's), (112, 8976), (133, 9072),

Gene: NiebruSaylor_75 Start: 47016, Stop: 46639, Start Num: 56
Candidate Starts for NiebruSaylor_75:
(Start: 56 @47016 has 79 MA's), (81, 46956), (84, 46944), (96, 46881), (112, 46788), (114, 46782), (117, 46737), (130, 46692), (137, 46653), (138, 46650),

Gene: Nigel_50 Start: 48156, Stop: 47758, Start Num: 47
Candidate Starts for Nigel_50:
(Start: 47 @48156 has 20 MA's), (74, 48108), (75, 48105), (84, 48084), (113, 47919), (120, 47859), (132, 47823),

Gene: Nilo_57 Start: 42651, Stop: 43121, Start Num: 20
Candidate Starts for Nilo_57:
(Start: 20 @42651 has 6 MA's), (Start: 31 @42690 has 2 MA's), (Start: 47 @42720 has 20 MA's), (Start: 54 @42732 has 5 MA's), (Start: 60 @42744 has 1 MA's), (69, 42759), (74, 42765), (90, 42816), (107, 42930), (112, 42960), (131, 43050), (132, 43053), (133, 43068),

Gene: Nish23_73 Start: 52182, Stop: 52571, Start Num: 59
Candidate Starts for Nish23_73:
(Start: 59 @52182 has 200 MA's), (73, 52209), (77, 52221), (92, 52266), (93, 52269), (98, 52299), (118, 52449), (136, 52521),

Gene: NoodleTree_25 Start: 8186, Stop: 8542, Start Num: 59
Candidate Starts for NoodleTree_25:
(Start: 59 @8186 has 200 MA's), (112, 8393), (133, 8489),

Gene: Norm_26 Start: 8699, Stop: 9055, Start Num: 59
Candidate Starts for Norm_26:
(Start: 59 @8699 has 200 MA's), (112, 8906), (133, 9002),

Gene: Nova_55 Start: 43178, Stop: 43558, Start Num: 52
Candidate Starts for Nova_55:
(Start: 52 @43178 has 22 MA's), (72, 43211), (73, 43214), (74, 43217), (92, 43271), (93, 43274), (111, 43394), (133, 43505), (134, 43508),

Gene: Nova1_57 Start: 48551, Stop: 48180, Start Num: 62
Candidate Starts for Nova1_57:
(14, 48752), (16, 48707), (18, 48677), (41, 48590), (Start: 62 @48551 has 161 MA's), (Start: 64 @48548 has 134 MA's), (80, 48509), (95, 48437), (119, 48266), (120, 48263), (133, 48212),

Gene: November_71 Start: 49896, Stop: 50279, Start Num: 46
Candidate Starts for November_71:
(Start: 46 @49896 has 18 MA's), (79, 49959), (84, 49971), (106, 50082), (112, 50118), (129, 50211), (132, 50220),

Gene: NovoPizza_44 Start: 34983, Stop: 34570, Start Num: 45
Candidate Starts for NovoPizza_44:
(Start: 45 @34983 has 33 MA's), (69, 34941), (110, 34749), (132, 34641), (133, 34626), (139, 34602), (145, 34587),

Gene: NuevoMundo_29 Start: 9756, Stop: 10112, Start Num: 59
Candidate Starts for NuevoMundo_29:
(Start: 59 @9756 has 200 MA's), (98, 9870), (112, 9963), (133, 10059),

Gene: Numberten_55 Start: 48342, Stop: 47971, Start Num: 62
Candidate Starts for Numberten_55:
(8, 48702), (14, 48543), (16, 48498), (18, 48468), (41, 48381), (Start: 62 @48342 has 161 MA's), (Start: 64 @48339 has 134 MA's), (97, 48219), (119, 48057), (120, 48054), (133, 48003),

Gene: Nyala_55 Start: 48315, Stop: 47947, Start Num: 64
Candidate Starts for Nyala_55:
(14, 48519), (16, 48474), (18, 48444), (Start: 62 @48318 has 161 MA's), (Start: 64 @48315 has 134 MA's), (80, 48276), (97, 48195), (119, 48033), (120, 48030), (133, 47979),

Gene: OBUpride_43 Start: 33310, Stop: 32885, Start Num: 37
Candidate Starts for OBUpride_43:
(Start: 17 @33403 has 4 MA's), (Start: 37 @33310 has 17 MA's), (Start: 53 @33286 has 3 MA's), (74, 33244), (75, 33241), (82, 33220), (89, 33199), (93, 33169), (109, 33067), (132, 32953), (133, 32938), (134, 32935), (139, 32914), (148, 32893),

Gene: OSmaximus_57 Start: 48906, Stop: 48535, Start Num: 62
Candidate Starts for OSmaximus_57:
(14, 49107), (16, 49062), (18, 49032), (41, 48945), (Start: 62 @48906 has 161 MA's), (Start: 64 @48903 has 134 MA's), (80, 48864), (95, 48792), (119, 48621), (120, 48618), (133, 48567),

Gene: Oaker_71 Start: 52771, Stop: 53139, Start Num: 59
Candidate Starts for Oaker_71:
(Start: 59 @52771 has 200 MA's), (73, 52798), (77, 52810), (93, 52858), (94, 52873), (118, 53035), (132, 53071), (134, 53089),

Gene: Olak_55 Start: 48318, Stop: 47950, Start Num: 64
Candidate Starts for Olak_55:
(14, 48522), (16, 48477), (18, 48447), (Start: 62 @48321 has 161 MA's), (Start: 64 @48318 has 134 MA's), (80, 48279), (97, 48198), (119, 48036), (120, 48033), (133, 47982),

Gene: Oline_56 Start: 48216, Stop: 47845, Start Num: 62
Candidate Starts for Oline_56:
(8, 48576), (14, 48417), (16, 48372), (18, 48342), (Start: 62 @48216 has 161 MA's), (Start: 64 @48213 has 134 MA's), (80, 48174), (87, 48156), (95, 48102), (97, 48093), (119, 47931), (120, 47928), (133, 47877),

Gene: Olive_55 Start: 48332, Stop: 47961, Start Num: 62
Candidate Starts for Olive_55:
(9, 48677), (14, 48533), (16, 48488), (18, 48458), (41, 48371), (Start: 62 @48332 has 161 MA's), (Start: 64 @48329 has 134 MA's), (97, 48209), (119, 48047), (120, 48044), (133, 47993),

Gene: OliverWalter_55 Start: 48353, Stop: 47982, Start Num: 62
Candidate Starts for OliverWalter_55:
(14, 48554), (16, 48509), (18, 48479), (41, 48392), (Start: 62 @48353 has 161 MA's), (Start: 64 @48350 has 134 MA's), (80, 48311), (97, 48230), (119, 48068), (120, 48065), (133, 48014),

Gene: Omniscient_57 Start: 49180, Stop: 48809, Start Num: 62
Candidate Starts for Omniscient_57:
(8, 49540), (14, 49381), (16, 49336), (18, 49306), (Start: 62 @49180 has 161 MA's), (Start: 64 @49177 has 134 MA's), (80, 49138), (97, 49057), (119, 48895), (120, 48892), (133, 48841),

Gene: OneBrain_57 Start: 48384, Stop: 48013, Start Num: 62
Candidate Starts for OneBrain_57:
(14, 48585), (16, 48540), (18, 48510), (41, 48423), (Start: 62 @48384 has 161 MA's), (Start: 64 @48381 has 134 MA's), (80, 48342), (97, 48261), (119, 48099), (120, 48096), (133, 48045),

Gene: Oosterbaan_56 Start: 48639, Stop: 48271, Start Num: 64
Candidate Starts for Oosterbaan_56:
(14, 48843), (16, 48798), (18, 48768), (Start: 62 @48642 has 161 MA's), (Start: 64 @48639 has 134 MA's), (80, 48600), (97, 48519), (119, 48357), (120, 48354), (133, 48303),

Gene: OrediggerDelux_28 Start: 8699, Stop: 9055, Start Num: 59
Candidate Starts for OrediggerDelux_28:
(Start: 59 @8699 has 200 MA's), (112, 8906), (133, 9002),

Gene: Orfeu_54 Start: 48312, Stop: 47944, Start Num: 64
Candidate Starts for Orfeu_54:
(14, 48516), (16, 48471), (18, 48441), (Start: 62 @48315 has 161 MA's), (Start: 64 @48312 has 134 MA's), (80, 48273), (97, 48192), (119, 48030), (120, 48027), (133, 47976),

Gene: Orion_57 Start: 48301, Stop: 47933, Start Num: 64
Candidate Starts for Orion_57:

(14, 48505), (16, 48460), (18, 48430), (Start: 62 @48304 has 161 MA's), (Start: 64 @48301 has 134 MA's), (80, 48262), (97, 48181), (119, 48019), (120, 48016), (133, 47965),

Gene: Orwigg_56 Start: 48281, Stop: 47913, Start Num: 64
Candidate Starts for Orwigg_56:
(14, 48485), (16, 48440), (18, 48410), (Start: 62 @48284 has 161 MA's), (Start: 64 @48281 has 134 MA's), (80, 48242), (97, 48161), (119, 47999), (120, 47996), (133, 47945),

Gene: PBI1_53 Start: 42653, Stop: 43033, Start Num: 52
Candidate Starts for PBI1_53:
(Start: 52 @42653 has 22 MA's), (72, 42686), (73, 42689), (74, 42692), (92, 42746), (93, 42749), (111, 42869), (133, 42980), (134, 42983),

Gene: PG1_57 Start: 48872, Stop: 48504, Start Num: 64
Candidate Starts for PG1_57:
(14, 49076), (16, 49031), (18, 49001), (Start: 62 @48875 has 161 MA's), (Start: 64 @48872 has 134 MA's), (80, 48833), (97, 48752), (119, 48590), (120, 48587), (133, 48536),

Gene: PLot_56 Start: 42705, Stop: 43085, Start Num: 52
Candidate Starts for PLot_56:
(Start: 52 @42705 has 22 MA's), (72, 42738), (73, 42741), (74, 42744), (92, 42798), (93, 42801), (111, 42921), (133, 43032), (134, 43035),

Gene: PR_44 Start: 40732, Stop: 41133, Start Num: 44
Candidate Starts for PR_44:
(Start: 44 @40732 has 11 MA's), (Start: 53 @40747 has 3 MA's), (109, 40963), (110, 40969), (112, 40984), (126, 41044), (131, 41062), (132, 41065), (133, 41080), (145, 41119), (147, 41122),

Gene: Pacifista_55 Start: 48314, Stop: 47946, Start Num: 64
Candidate Starts for Pacifista_55:
(14, 48518), (16, 48473), (18, 48443), (Start: 62 @48317 has 161 MA's), (Start: 64 @48314 has 134 MA's), (80, 48275), (97, 48194), (119, 48032), (120, 48029), (133, 47978),

Gene: PallasAthena_56 Start: 48358, Stop: 47990, Start Num: 64
Candidate Starts for PallasAthena_56:
(14, 48562), (16, 48517), (18, 48487), (Start: 62 @48361 has 161 MA's), (Start: 64 @48358 has 134 MA's), (80, 48319), (97, 48238), (119, 48076), (120, 48073), (133, 48022),

Gene: Panchino_39 Start: 31193, Stop: 31591, Start Num: 45
Candidate Starts for Panchino_39:
(Start: 45 @31193 has 33 MA's), (75, 31244), (80, 31259), (112, 31442), (114, 31448), (125, 31499), (131, 31520), (132, 31523), (133, 31538), (139, 31562), (145, 31577), (147, 31580),

Gene: Papyrus_56 Start: 42546, Stop: 42977, Start Num: 31
Candidate Starts for Papyrus_56:
(Start: 31 @42546 has 2 MA's), (Start: 47 @42576 has 20 MA's), (Start: 54 @42588 has 5 MA's), (Start: 60 @42600 has 1 MA's), (74, 42621), (90, 42672), (107, 42786), (112, 42816), (131, 42906), (132, 42909), (133, 42924),

Gene: ParkTD_25 Start: 8699, Stop: 9055, Start Num: 59
Candidate Starts for ParkTD_25:
(Start: 59 @8699 has 200 MA's), (112, 8906), (133, 9002),

Gene: Parmesanjohn_42 Start: 30670, Stop: 31068, Start Num: 45
Candidate Starts for Parmesanjohn_42:
(Start: 45 @30670 has 33 MA's), (75, 30721), (80, 30736), (112, 30919), (114, 30925), (125, 30976), (131, 30997), (132, 31000), (133, 31015), (139, 31039), (145, 31054), (147, 31057),

Gene: Patter_26 Start: 8171, Stop: 8527, Start Num: 59
Candidate Starts for Patter_26:
(Start: 59 @8171 has 200 MA's), (98, 8285), (112, 8378), (133, 8474),

Gene: Penelope2018_56 Start: 42723, Stop: 43103, Start Num: 52
Candidate Starts for Penelope2018_56:
(Start: 52 @42723 has 22 MA's), (72, 42756), (73, 42759), (74, 42762), (92, 42816), (93, 42819), (111, 42939), (133, 43050), (134, 43053),

Gene: Phamished_57 Start: 48321, Stop: 47953, Start Num: 64
Candidate Starts for Phamished_57:
(14, 48525), (16, 48480), (18, 48450), (41, 48363), (Start: 62 @48324 has 161 MA's), (Start: 64 @48321 has 134 MA's), (80, 48282), (97, 48201), (119, 48039), (120, 48036), (133, 47985),

Gene: Pharb_73 Start: 49246, Stop: 49617, Start Num: 46
Candidate Starts for Pharb_73:
(Start: 46 @49246 has 18 MA's), (Start: 56 @49261 has 79 MA's), (Start: 59 @49267 has 200 MA's), (78, 49297), (95, 49351), (101, 49381), (106, 49420), (110, 49441), (112, 49456), (116, 49492), (129, 49549), (132, 49558), (144, 49609),

Gene: Phareon_55 Start: 48039, Stop: 47668, Start Num: 62
Candidate Starts for Phareon_55:
(14, 48240), (16, 48195), (18, 48165), (41, 48078), (Start: 62 @48039 has 161 MA's), (Start: 64 @48036 has 134 MA's), (97, 47916), (119, 47754), (120, 47751), (133, 47700),

Gene: PharkleMinkus_32 Start: 10270, Stop: 10626, Start Num: 59
Candidate Starts for PharkleMinkus_32:
(Start: 59 @10270 has 200 MA's), (98, 10384), (112, 10477), (133, 10573),

Gene: PhatCats2014_57 Start: 48879, Stop: 48508, Start Num: 62
Candidate Starts for PhatCats2014_57:
(14, 49080), (16, 49035), (18, 49005), (Start: 62 @48879 has 161 MA's), (Start: 64 @48876 has 134 MA's), (80, 48837), (97, 48756), (119, 48594), (120, 48591), (133, 48540),

Gene: PhatLouie_57 Start: 48655, Stop: 48284, Start Num: 62
Candidate Starts for PhatLouie_57:
(8, 49015), (14, 48856), (16, 48811), (18, 48781), (41, 48694), (Start: 62 @48655 has 161 MA's), (Start: 64 @48652 has 134 MA's), (97, 48532), (119, 48370), (120, 48367), (133, 48316),

Gene: Phelemich_52 Start: 48646, Stop: 48230, Start Num: 45
Candidate Starts for Phelemich_52:
(4, 49024), (6, 48979), (7, 48976), (Start: 45 @48646 has 33 MA's), (74, 48592), (120, 48331),

Gene: PhenghisKhan_56 Start: 48272, Stop: 47904, Start Num: 64
Candidate Starts for PhenghisKhan_56:
(8, 48635), (14, 48476), (16, 48431), (18, 48401), (Start: 62 @48275 has 161 MA's), (Start: 64 @48272 has 134 MA's), (80, 48233), (87, 48215), (95, 48161), (97, 48152), (119, 47990), (120, 47987), (133, 47936),

Gene: Pherdinand_57 Start: 48334, Stop: 47963, Start Num: 62
Candidate Starts for Pherdinand_57:
(14, 48535), (16, 48490), (18, 48460), (Start: 62 @48334 has 161 MA's), (Start: 64 @48331 has 134 MA's), (80, 48292), (97, 48211), (119, 48049), (120, 48046), (133, 47995),

Gene: Phergie_57 Start: 48264, Stop: 47896, Start Num: 64
Candidate Starts for Phergie_57:
(8, 48627), (14, 48468), (16, 48423), (18, 48393), (Start: 62 @48267 has 161 MA's), (Start: 64 @48264 has 134 MA's), (80, 48225), (87, 48207), (95, 48153), (97, 48144), (119, 47982), (120, 47979), (133, 47928),

Gene: Phipps_56 Start: 48152, Stop: 47781, Start Num: 62
Candidate Starts for Phipps_56:
(14, 48353), (16, 48308), (18, 48278), (Start: 62 @48152 has 161 MA's), (Start: 64 @48149 has 134 MA's), (80, 48110), (97, 48029), (119, 47867), (120, 47864), (133, 47813),

Gene: Phlegm_28 Start: 8154, Stop: 8510, Start Num: 59
Candidate Starts for Phlegm_28:
(Start: 59 @8154 has 200 MA's), (98, 8268), (112, 8361), (133, 8457),

Gene: Phleuron_56 Start: 48269, Stop: 47901, Start Num: 64
Candidate Starts for Phleuron_56:
(8, 48632), (14, 48473), (16, 48428), (18, 48398), (Start: 62 @48272 has 161 MA's), (Start: 64 @48269 has 134 MA's), (80, 48230), (87, 48212), (95, 48158), (97, 48149), (119, 47987), (120, 47984), (133, 47933),

Gene: Phloss_40 Start: 30077, Stop: 30475, Start Num: 45
Candidate Starts for Phloss_40:
(Start: 45 @30077 has 33 MA's), (75, 30128), (80, 30143), (112, 30326), (114, 30332), (125, 30383), (131, 30404), (132, 30407), (133, 30422), (139, 30446), (145, 30461), (147, 30464),

Gene: Phox_25 Start: 8866, Stop: 9222, Start Num: 59
Candidate Starts for Phox_25:
(Start: 59 @8866 has 200 MA's), (112, 9073), (133, 9169),

Gene: PhrankReynolds_55 Start: 48272, Stop: 47901, Start Num: 62
Candidate Starts for PhrankReynolds_55:
(8, 48632), (14, 48473), (16, 48428), (18, 48398), (Start: 62 @48272 has 161 MA's), (Start: 64 @48269 has 134 MA's), (80, 48230), (87, 48212), (95, 48158), (97, 48149), (119, 47987), (120, 47984), (133, 47933),

Gene: Phrann_44 Start: 31873, Stop: 32271, Start Num: 45
Candidate Starts for Phrann_44:
(Start: 45 @31873 has 33 MA's), (75, 31924), (80, 31939), (112, 32122), (114, 32128), (125, 32179), (131, 32200), (132, 32203), (133, 32218), (139, 32242), (145, 32257), (147, 32260),

Gene: Phrappuccino_28 Start: 15030, Stop: 15431, Start Num: 54
Candidate Starts for Phrappuccino_28:
(Start: 54 @15030 has 5 MA's), (76, 15078), (85, 15108), (107, 15240), (124, 15339), (132, 15363), (133, 15378), (145, 15417),

Gene: Phreeze_70 Start: 51738, Stop: 52106, Start Num: 59

Candidate Starts for Phreeze_70:
(Start: 59 @51738 has 200 MA's), (73, 51765), (77, 51777), (93, 51825), (94, 51840), (118, 52002), (132, 52038), (134, 52056),

Gene: PhrodoBaggins_57 Start: 48737, Stop: 48369, Start Num: 64
Candidate Starts for PhrodoBaggins_57:
(14, 48941), (16, 48896), (18, 48866), (Start: 62 @48740 has 161 MA's), (Start: 64 @48737 has 134 MA's), (80, 48698), (97, 48617), (119, 48455), (120, 48452), (133, 48401),

Gene: Phunky_55 Start: 48336, Stop: 47965, Start Num: 62
Candidate Starts for Phunky_55:
(14, 48537), (16, 48492), (18, 48462), (41, 48375), (Start: 62 @48336 has 161 MA's), (Start: 64 @48333 has 134 MA's), (97, 48213), (119, 48051), (120, 48048), (133, 47997),

Gene: Phusco_26 Start: 8150, Stop: 8506, Start Num: 59
Candidate Starts for Phusco_26:
(Start: 59 @8150 has 200 MA's), (98, 8264), (112, 8357), (133, 8453),

Gene: Pier_28 Start: 8857, Stop: 9213, Start Num: 59
Candidate Starts for Pier_28:
(Start: 59 @8857 has 200 MA's), (98, 8971), (112, 9064), (133, 9160),

Gene: Piglet_0056 Start: 48852, Stop: 48481, Start Num: 62
Candidate Starts for Piglet_0056:
(14, 49053), (16, 49008), (18, 48978), (Start: 62 @48852 has 161 MA's), (Start: 64 @48849 has 134 MA's), (80, 48810), (97, 48729), (119, 48567), (120, 48564), (133, 48513),

Gene: PinheadLarry_57 Start: 48874, Stop: 48506, Start Num: 64
Candidate Starts for PinheadLarry_57:
(14, 49078), (16, 49033), (18, 49003), (Start: 62 @48877 has 161 MA's), (Start: 64 @48874 has 134 MA's), (80, 48835), (97, 48754), (119, 48592), (120, 48589), (133, 48538),

Gene: Pinkcreek_18 Start: 6561, Stop: 6917, Start Num: 59
Candidate Starts for Pinkcreek_18:
(Start: 59 @6561 has 200 MA's), (112, 6768), (133, 6864),

Gene: Pinkman_55 Start: 48210, Stop: 47839, Start Num: 62
Candidate Starts for Pinkman_55:
(8, 48570), (14, 48411), (16, 48366), (18, 48336), (Start: 62 @48210 has 161 MA's), (Start: 64 @48207 has 134 MA's), (80, 48168), (87, 48150), (95, 48096), (97, 48087), (119, 47925), (120, 47922), (133, 47871),

Gene: Pio_29 Start: 9548, Stop: 9904, Start Num: 59
Candidate Starts for Pio_29:
(Start: 59 @9548 has 200 MA's), (98, 9662), (112, 9755), (133, 9851),

Gene: Pipsqueak_55 Start: 48365, Stop: 47994, Start Num: 62
Candidate Starts for Pipsqueak_55:
(14, 48566), (16, 48521), (18, 48491), (Start: 62 @48365 has 161 MA's), (Start: 64 @48362 has 134 MA's), (80, 48323), (97, 48242), (119, 48080), (120, 48077), (133, 48026),

Gene: Pipsqueaks_42 Start: 30647, Stop: 31045, Start Num: 45
Candidate Starts for Pipsqueaks_42:

(Start: 45 @30647 has 33 MA's), (75, 30698), (80, 30713), (112, 30896), (114, 30902), (125, 30953), (131, 30974), (132, 30977), (133, 30992), (139, 31016), (145, 31031), (147, 31034),

Gene: Piro94_36 Start: 27692, Stop: 28087, Start Num: 56
Candidate Starts for Piro94_36:
(Start: 56 @27692 has 79 MA's), (116, 27950), (119, 27980), (132, 28016),

Gene: Pivoine_26 Start: 8154, Stop: 8510, Start Num: 59
Candidate Starts for Pivoine_26:
(Start: 59 @8154 has 200 MA's), (98, 8268), (112, 8361), (133, 8457),

Gene: Pixie_74 Start: 49525, Stop: 49920, Start Num: 38
Candidate Starts for Pixie_74:
(Start: 38 @49525 has 6 MA's), (Start: 59 @49561 has 200 MA's), (78, 49597), (110, 49744), (112, 49759), (116, 49795), (144, 49912),

Gene: Placalicious_56 Start: 48864, Stop: 48496, Start Num: 64
Candidate Starts for Placalicious_56:
(14, 49068), (16, 49023), (18, 48993), (Start: 62 @48867 has 161 MA's), (Start: 64 @48864 has 134 MA's), (80, 48825), (97, 48744), (119, 48582), (120, 48579), (133, 48528),

Gene: Plata_56 Start: 48363, Stop: 47992, Start Num: 62
Candidate Starts for Plata_56:
(14, 48564), (16, 48519), (18, 48489), (Start: 62 @48363 has 161 MA's), (Start: 64 @48360 has 134 MA's), (80, 48321), (97, 48240), (119, 48078), (120, 48075), (133, 48024),

Gene: Pleione_28 Start: 8699, Stop: 9055, Start Num: 59
Candidate Starts for Pleione_28:
(Start: 59 @8699 has 200 MA's), (112, 8906), (133, 9002),

Gene: Plmatters_55 Start: 48339, Stop: 47968, Start Num: 62
Candidate Starts for Plmatters_55:
(8, 48699), (14, 48540), (16, 48495), (18, 48465), (Start: 62 @48339 has 161 MA's), (Start: 64 @48336 has 134 MA's), (80, 48297), (95, 48225), (119, 48054), (120, 48051), (133, 48000),

Gene: Podrick_54 Start: 47673, Stop: 47305, Start Num: 64
Candidate Starts for Podrick_54:
(14, 47877), (16, 47832), (18, 47802), (Start: 62 @47676 has 161 MA's), (Start: 64 @47673 has 134 MA's), (80, 47634), (95, 47562), (119, 47391), (120, 47388), (133, 47337),

Gene: Pops_55 Start: 48324, Stop: 47953, Start Num: 62
Candidate Starts for Pops_55:
(9, 48666), (14, 48525), (16, 48480), (18, 48450), (Start: 62 @48324 has 161 MA's), (Start: 64 @48321 has 134 MA's), (80, 48282), (87, 48264), (95, 48210), (97, 48201), (119, 48039), (120, 48036), (133, 47985),

Gene: Poster_48 Start: 47152, Stop: 46754, Start Num: 47
Candidate Starts for Poster_48:
(Start: 47 @47152 has 20 MA's), (74, 47104), (75, 47101), (84, 47080), (127, 46834), (135, 46798),

Gene: Potter_55 Start: 48373, Stop: 48002, Start Num: 62
Candidate Starts for Potter_55:

(14, 48574), (16, 48529), (18, 48499), (Start: 62 @48373 has 161 MA's), (Start: 64 @48370 has 134 MA's), (80, 48331), (95, 48259), (119, 48088), (120, 48085), (133, 48034),

Gene: Power_35 Start: 27298, Stop: 27681, Start Num: 56
Candidate Starts for Power_35:
(Start: 56 @27298 has 79 MA's), (93, 27382), (110, 27490), (116, 27541), (119, 27571), (143, 27658),

Gene: Prager_56 Start: 42742, Stop: 43122, Start Num: 52
Candidate Starts for Prager_56:
(Start: 52 @42742 has 22 MA's), (72, 42775), (73, 42778), (74, 42781), (92, 42835), (93, 42838), (111, 42958), (133, 43069), (134, 43072),

Gene: Prickles_57 Start: 48631, Stop: 48260, Start Num: 62
Candidate Starts for Prickles_57:
(14, 48832), (16, 48787), (18, 48757), (41, 48670), (Start: 62 @48631 has 161 MA's), (Start: 64 @48628 has 134 MA's), (80, 48589), (87, 48571), (97, 48508), (119, 48346), (120, 48343), (133, 48292),

Gene: Primadonna_21 Start: 7806, Stop: 8162, Start Num: 59
Candidate Starts for Primadonna_21:
(Start: 59 @7806 has 200 MA's), (112, 8013), (133, 8109),

Gene: Prince_49 Start: 48357, Stop: 47959, Start Num: 47
Candidate Starts for Prince_49:
(5, 48690), (Start: 47 @48357 has 20 MA's), (74, 48309), (75, 48306), (84, 48285), (120, 48060), (127, 48039), (135, 48003),

Gene: ProfessorX_55 Start: 48328, Stop: 47960, Start Num: 64
Candidate Starts for ProfessorX_55:
(14, 48532), (16, 48487), (18, 48457), (Start: 62 @48331 has 161 MA's), (Start: 64 @48328 has 134 MA's), (80, 48289), (97, 48208), (119, 48046), (120, 48043), (133, 47992),

Gene: Puhltonio_56 Start: 48647, Stop: 48276, Start Num: 62
Candidate Starts for Puhltonio_56:
(14, 48848), (16, 48803), (18, 48773), (Start: 62 @48647 has 161 MA's), (Start: 64 @48644 has 134 MA's), (80, 48605), (95, 48533), (119, 48362), (120, 48359), (133, 48308),

Gene: Puhon_31 Start: 10284, Stop: 10640, Start Num: 59
Candidate Starts for Puhon_31:
(Start: 59 @10284 has 200 MA's), (98, 10398), (112, 10491), (133, 10587),

Gene: Puissant_68 Start: 51841, Stop: 52215, Start Num: 60
Candidate Starts for Puissant_68:
(Start: 60 @51841 has 1 MA's), (73, 51868), (93, 51928), (132, 52144),

Gene: Pupusa_33 Start: 10807, Stop: 11163, Start Num: 59
Candidate Starts for Pupusa_33:
(Start: 59 @10807 has 200 MA's), (112, 11014), (133, 11110),

Gene: PurduePete_25 Start: 8416, Stop: 8772, Start Num: 59
Candidate Starts for PurduePete_25:
(Start: 59 @8416 has 200 MA's), (98, 8530), (112, 8623), (133, 8719),

Gene: QBert_24 Start: 8866, Stop: 9222, Start Num: 59
Candidate Starts for QBert_24:
(Start: 59 @8866 has 200 MA's), (112, 9073), (133, 9169),

Gene: Quasimodo_26 Start: 9114, Stop: 9470, Start Num: 59
Candidate Starts for Quasimodo_26:
(Start: 59 @9114 has 200 MA's), (98, 9228), (112, 9321), (133, 9417),

Gene: QueenB2_36 Start: 27362, Stop: 27739, Start Num: 56
Candidate Starts for QueenB2_36:
(Start: 56 @27362 has 79 MA's), (116, 27602), (119, 27632), (121, 27638), (132, 27668),

Gene: QueenBeane_56 Start: 48637, Stop: 48266, Start Num: 62
Candidate Starts for QueenBeane_56:
(14, 48838), (16, 48793), (18, 48763), (Start: 62 @48637 has 161 MA's), (Start: 64 @48634 has 134 MA's), (80, 48595), (95, 48523), (119, 48352), (120, 48349), (133, 48298),

Gene: QueenBeesly_36 Start: 27245, Stop: 27628, Start Num: 56
Candidate Starts for QueenBeesly_36:
(Start: 56 @27245 has 79 MA's), (93, 27329), (110, 27437), (116, 27488), (119, 27518), (143, 27605),

Gene: Quisquiliae_57 Start: 48637, Stop: 48269, Start Num: 64
Candidate Starts for Quisquiliae_57:
(14, 48841), (16, 48796), (18, 48766), (Start: 62 @48640 has 161 MA's), (Start: 64 @48637 has 134 MA's), (80, 48598), (97, 48517), (119, 48355), (120, 48352), (133, 48301),

Gene: Rabinovish_25 Start: 9154, Stop: 9510, Start Num: 59
Candidate Starts for Rabinovish_25:
(Start: 59 @9154 has 200 MA's), (112, 9361), (133, 9457),

Gene: Rachaly_39 Start: 28574, Stop: 28945, Start Num: 71
Candidate Starts for Rachaly_39:
(Start: 71 @28574 has 5 MA's), (101, 28691), (112, 28766), (116, 28802), (119, 28832), (132, 28868), (139, 28907), (143, 28919), (147, 28925),

Gene: Rahel_26 Start: 8150, Stop: 8506, Start Num: 59
Candidate Starts for Rahel_26:
(Start: 59 @8150 has 200 MA's), (98, 8264), (112, 8357), (133, 8453),

Gene: RawrgerThat_50 Start: 48212, Stop: 47814, Start Num: 47
Candidate Starts for RawrgerThat_50:
(Start: 47 @48212 has 20 MA's), (74, 48164), (75, 48161), (84, 48140), (127, 47894), (135, 47858),

Gene: Reccee_54 Start: 48685, Stop: 48290, Start Num: 57
Candidate Starts for Reccee_54:
(4, 49081), (6, 49036), (7, 49033), (Start: 45 @48703 has 33 MA's), (Start: 57 @48685 has 3 MA's), (80, 48631), (135, 48334),

Gene: RedMaple_57 Start: 48873, Stop: 48502, Start Num: 62
Candidate Starts for RedMaple_57:
(14, 49074), (16, 49029), (18, 48999), (41, 48912), (Start: 62 @48873 has 161 MA's), (Start: 64 @48870 has 134 MA's), (80, 48831), (95, 48759), (119, 48588), (120, 48585), (133, 48534),

Gene: RedRaider89_56 Start: 48561, Stop: 48193, Start Num: 64
Candidate Starts for RedRaider89_56:
(14, 48765), (16, 48720), (18, 48690), (41, 48603), (Start: 62 @48564 has 161 MA's), (Start: 64 @48561 has 134 MA's), (80, 48522), (97, 48441), (119, 48279), (120, 48276), (133, 48225),

Gene: Renkei_48 Start: 47168, Stop: 46770, Start Num: 47
Candidate Starts for Renkei_48:
(Start: 47 @47168 has 20 MA's), (74, 47120), (75, 47117), (84, 47096), (127, 46850), (135, 46814),

Gene: Reprobate_53 Start: 48651, Stop: 48235, Start Num: 45
Candidate Starts for Reprobate_53:
(4, 49029), (6, 48984), (7, 48981), (Start: 45 @48651 has 33 MA's), (74, 48597), (120, 48336),

Gene: Retro23_37 Start: 27627, Stop: 28010, Start Num: 56
Candidate Starts for Retro23_37:
(Start: 56 @27627 has 79 MA's), (93, 27711), (110, 27819), (116, 27870), (119, 27900), (132, 27936), (143, 27987),

Gene: Rich_54 Start: 50085, Stop: 49669, Start Num: 45
Candidate Starts for Rich_54:
(4, 50463), (6, 50418), (7, 50415), (11, 50364), (Start: 45 @50085 has 33 MA's), (Start: 57 @50067 has 3 MA's), (80, 50013), (135, 49713), (148, 49680),

Gene: Ricotta_55 Start: 48327, Stop: 47959, Start Num: 64
Candidate Starts for Ricotta_55:
(14, 48531), (16, 48486), (18, 48456), (Start: 62 @48330 has 161 MA's), (Start: 64 @48327 has 134 MA's), (80, 48288), (97, 48207), (119, 48045), (120, 48042), (133, 47991),

Gene: Riggan_57 Start: 48630, Stop: 48259, Start Num: 62
Candidate Starts for Riggan_57:
(14, 48831), (16, 48786), (18, 48756), (Start: 62 @48630 has 161 MA's), (Start: 64 @48627 has 134 MA's), (80, 48588), (95, 48516), (119, 48345), (120, 48342), (133, 48291),

Gene: Riparian_57 Start: 42099, Stop: 42569, Start Num: 20
Candidate Starts for Riparian_57:
(Start: 20 @42099 has 6 MA's), (Start: 31 @42138 has 2 MA's), (Start: 47 @42168 has 20 MA's), (Start: 54 @42180 has 5 MA's), (Start: 60 @42192 has 1 MA's), (69, 42207), (74, 42213), (90, 42264), (107, 42378), (112, 42408), (131, 42498), (132, 42501), (133, 42516),

Gene: Rita130_53 Start: 48505, Stop: 48110, Start Num: 57
Candidate Starts for Rita130_53:
(4, 48901), (6, 48856), (7, 48853), (Start: 45 @48523 has 33 MA's), (Start: 57 @48505 has 3 MA's), (80, 48451), (135, 48154),

Gene: Riverton_55 Start: 48358, Stop: 47987, Start Num: 62
Candidate Starts for Riverton_55:
(14, 48559), (16, 48514), (18, 48484), (41, 48397), (Start: 62 @48358 has 161 MA's), (Start: 64 @48355 has 134 MA's), (80, 48316), (97, 48235), (119, 48073), (120, 48070), (133, 48019),

Gene: Rizal_24 Start: 7616, Stop: 7972, Start Num: 59
Candidate Starts for Rizal_24:
(Start: 59 @7616 has 200 MA's), (112, 7823), (133, 7919),

Gene: RoMag_21 Start: 7951, Stop: 8307, Start Num: 59
Candidate Starts for RoMag_21:
(Start: 59 @7951 has 200 MA's), (112, 8158), (133, 8254),

Gene: Robyn_55 Start: 48276, Stop: 47905, Start Num: 62
Candidate Starts for Robyn_55:
(14, 48477), (16, 48432), (18, 48402), (41, 48315), (Start: 62 @48276 has 161 MA's), (Start: 64 @48273 has 134 MA's), (80, 48234), (95, 48162), (97, 48153), (119, 47991), (120, 47988), (133, 47937),

Gene: Rocha_24 Start: 7647, Stop: 8003, Start Num: 59
Candidate Starts for Rocha_24:
(Start: 59 @7647 has 200 MA's), (98, 7761), (112, 7854), (133, 7950),

Gene: Roliet_54 Start: 47673, Stop: 47302, Start Num: 62
Candidate Starts for Roliet_54:
(14, 47874), (16, 47829), (18, 47799), (41, 47712), (Start: 62 @47673 has 161 MA's), (Start: 64 @47670 has 134 MA's), (80, 47631), (97, 47550), (119, 47388), (120, 47385), (133, 47334),

Gene: RonRayGun_40 Start: 31491, Stop: 31892, Start Num: 42
Candidate Starts for RonRayGun_40:
(12, 31248), (Start: 42 @31491 has 5 MA's), (Start: 53 @31509 has 3 MA's), (101, 31665), (108, 31716), (112, 31740), (133, 31860), (134, 31863),

Gene: Ronan_21 Start: 6262, Stop: 6618, Start Num: 59
Candidate Starts for Ronan_21:
(Start: 59 @6262 has 200 MA's), (112, 6469), (133, 6565),

Gene: Roots515_26 Start: 8698, Stop: 9054, Start Num: 59
Candidate Starts for Roots515_26:
(Start: 59 @8698 has 200 MA's), (112, 8905), (133, 9001),

Gene: Rope_56 Start: 42577, Stop: 42966, Start Num: 54
Candidate Starts for Rope_56:
(Start: 31 @42535 has 2 MA's), (Start: 47 @42565 has 20 MA's), (Start: 54 @42577 has 5 MA's), (Start: 60 @42589 has 1 MA's), (69, 42604), (74, 42610), (90, 42661), (107, 42775), (112, 42805), (131, 42895), (132, 42898), (133, 42913),

Gene: Roscoe_56 Start: 48576, Stop: 48205, Start Num: 62
Candidate Starts for Roscoe_56:
(14, 48777), (16, 48732), (18, 48702), (41, 48615), (Start: 62 @48576 has 161 MA's), (Start: 64 @48573 has 134 MA's), (80, 48534), (95, 48462), (97, 48453), (119, 48291), (120, 48288), (133, 48237),

Gene: Roy17_55 Start: 48030, Stop: 47659, Start Num: 62
Candidate Starts for Roy17_55:
(14, 48231), (16, 48186), (18, 48156), (41, 48069), (Start: 62 @48030 has 161 MA's), (Start: 64 @48027 has 134 MA's), (97, 47907), (119, 47745), (120, 47742), (133, 47691),

Gene: Ryadel_79 Start: 48372, Stop: 47995, Start Num: 56
Candidate Starts for Ryadel_79:
(Start: 56 @48372 has 79 MA's), (81, 48312), (84, 48300), (96, 48237), (112, 48144), (114, 48138), (117, 48093), (130, 48048), (137, 48009), (138, 48006),

Gene: SDcharge11_55 Start: 47644, Stop: 47273, Start Num: 62
Candidate Starts for SDcharge11_55:
(14, 47845), (16, 47800), (18, 47770), (41, 47683), (Start: 62 @47644 has 161 MA's), (Start: 64 @47641 has 134 MA's), (80, 47602), (97, 47521), (119, 47359), (120, 47356), (133, 47305),

Gene: SVoro_25 Start: 8693, Stop: 9049, Start Num: 59
Candidate Starts for SVoro_25:
(Start: 59 @8693 has 200 MA's), (112, 8900), (133, 8996),

Gene: Salacia_28 Start: 8699, Stop: 9055, Start Num: 59
Candidate Starts for Salacia_28:
(Start: 59 @8699 has 200 MA's), (112, 8906), (133, 9002),

Gene: Salazzle_57 Start: 48484, Stop: 48113, Start Num: 62
Candidate Starts for Salazzle_57:
(8, 48844), (14, 48685), (16, 48640), (18, 48610), (Start: 62 @48484 has 161 MA's), (Start: 64 @48481 has 134 MA's), (80, 48442), (87, 48424), (95, 48370), (97, 48361), (119, 48199), (120, 48196), (133, 48145),

Gene: SallyH_57 Start: 48314, Stop: 47946, Start Num: 64
Candidate Starts for SallyH_57:
(14, 48518), (16, 48473), (18, 48443), (Start: 62 @48317 has 161 MA's), (Start: 64 @48314 has 134 MA's), (80, 48275), (97, 48194), (119, 48032), (120, 48029), (133, 47978),

Gene: Samaymay_56 Start: 48637, Stop: 48266, Start Num: 62
Candidate Starts for Samaymay_56:
(14, 48838), (16, 48793), (18, 48763), (Start: 62 @48637 has 161 MA's), (Start: 64 @48634 has 134 MA's), (80, 48595), (95, 48523), (119, 48352), (120, 48349), (133, 48298),

Gene: SassyCat97_55 Start: 48364, Stop: 47993, Start Num: 62
Candidate Starts for SassyCat97_55:
(14, 48565), (16, 48520), (18, 48490), (41, 48403), (Start: 62 @48364 has 161 MA's), (Start: 64 @48361 has 134 MA's), (80, 48322), (95, 48250), (119, 48079), (120, 48076), (133, 48025),

Gene: Sauce_27 Start: 8829, Stop: 9185, Start Num: 59
Candidate Starts for Sauce_27:
(Start: 59 @8829 has 200 MA's), (112, 9036), (133, 9132),

Gene: Sbash_50 Start: 38735, Stop: 39223, Start Num: 19
Candidate Starts for Sbash_50:
(Start: 19 @38735 has 1 MA's), (33, 38795), (66, 38855), (80, 38891), (112, 39074), (119, 39119), (125, 39131), (131, 39152), (132, 39155), (133, 39170), (143, 39206), (145, 39209), (147, 39212),

Gene: Schadenfreude_55 Start: 48120, Stop: 47752, Start Num: 64
Candidate Starts for Schadenfreude_55:
(14, 48324), (16, 48279), (18, 48249), (41, 48162), (Start: 62 @48123 has 161 MA's), (Start: 64 @48120 has 134 MA's), (80, 48081), (95, 48009), (97, 48000), (119, 47838), (120, 47835), (133, 47784),

Gene: Schnauzer_43 Start: 30670, Stop: 31068, Start Num: 45
Candidate Starts for Schnauzer_43:

(Start: 45 @30670 has 33 MA's), (75, 30721), (80, 30736), (112, 30919), (114, 30925), (125, 30976), (131, 30997), (132, 31000), (133, 31015), (139, 31039), (145, 31054), (147, 31057),

Gene: SchoolBus_75 Start: 47520, Stop: 47143, Start Num: 56
Candidate Starts for SchoolBus_75:
(Start: 56 @47520 has 79 MA's), (81, 47460), (84, 47448), (96, 47385), (112, 47292), (114, 47286), (117, 47241), (130, 47196), (137, 47157), (138, 47154),

Gene: Schueller_56 Start: 48350, Stop: 47982, Start Num: 64
Candidate Starts for Schueller_56:
(8, 48713), (14, 48554), (16, 48509), (18, 48479), (Start: 62 @48353 has 161 MA's), (Start: 64 @48350 has 134 MA's), (80, 48311), (87, 48293), (95, 48239), (119, 48068), (120, 48065), (133, 48014),

Gene: Schuy_77 Start: 47372, Stop: 46995, Start Num: 56
Candidate Starts for Schuy_77:
(Start: 56 @47372 has 79 MA's), (81, 47312), (84, 47300), (96, 47237), (112, 47144), (114, 47138), (117, 47093), (130, 47048), (137, 47009), (138, 47006),

Gene: Scitech_39 Start: 28686, Stop: 29084, Start Num: 45
Candidate Starts for Scitech_39:
(Start: 45 @28686 has 33 MA's), (75, 28737), (80, 28752), (112, 28935), (114, 28941), (125, 28992), (131, 29013), (132, 29016), (133, 29031), (139, 29055), (145, 29070), (147, 29073),

Gene: Scoot17C_57 Start: 48303, Stop: 47935, Start Num: 64
Candidate Starts for Scoot17C_57:
(14, 48507), (16, 48462), (18, 48432), (Start: 62 @48306 has 161 MA's), (Start: 64 @48303 has 134 MA's), (80, 48264), (97, 48183), (119, 48021), (120, 48018), (133, 47967),

Gene: ScottMcG_26 Start: 9009, Stop: 9365, Start Num: 59
Candidate Starts for ScottMcG_26:
(Start: 59 @9009 has 200 MA's), (112, 9216), (133, 9312),

Gene: Scrick_57 Start: 48378, Stop: 48007, Start Num: 62
Candidate Starts for Scrick_57:
(14, 48579), (16, 48534), (18, 48504), (Start: 62 @48378 has 161 MA's), (Start: 64 @48375 has 134 MA's), (80, 48336), (97, 48255), (119, 48093), (120, 48090), (133, 48039),

Gene: Sebata_26 Start: 9052, Stop: 9408, Start Num: 59
Candidate Starts for Sebata_26:
(Start: 59 @9052 has 200 MA's), (112, 9259), (133, 9355),

Gene: Selr12_56 Start: 48343, Stop: 47975, Start Num: 64
Candidate Starts for Selr12_56:
(14, 48547), (16, 48502), (18, 48472), (Start: 62 @48346 has 161 MA's), (Start: 64 @48343 has 134 MA's), (80, 48304), (97, 48223), (119, 48061), (120, 48058), (133, 48007),

Gene: SemperFi_37 Start: 27513, Stop: 27896, Start Num: 56
Candidate Starts for SemperFi_37:
(Start: 56 @27513 has 79 MA's), (93, 27597), (110, 27705), (116, 27756), (119, 27786), (143, 27873),

Gene: Send513_56 Start: 42632, Stop: 43102, Start Num: 20
Candidate Starts for Send513_56:

(Start: 20 @42632 has 6 MA's), (Start: 31 @42671 has 2 MA's), (Start: 47 @42701 has 20 MA's), (Start: 54 @42713 has 5 MA's), (Start: 60 @42725 has 1 MA's), (69, 42740), (74, 42746), (90, 42797), (107, 42911), (112, 42941), (131, 43031), (132, 43034), (133, 43049),

Gene: Septica_55 Start: 48373, Stop: 48002, Start Num: 62
Candidate Starts for Septica_55:
(14, 48574), (16, 48529), (18, 48499), (41, 48412), (Start: 62 @48373 has 161 MA's), (Start: 64 @48370 has 134 MA's), (80, 48331), (95, 48259), (119, 48088), (120, 48085), (133, 48034),

Gene: Serendipitous_53 Start: 48341, Stop: 47952, Start Num: 57
Candidate Starts for Serendipitous_53:
(Start: 57 @48341 has 3 MA's), (112, 48122), (120, 48053), (135, 47996), (139, 47984),

Gene: Serendipity_56 Start: 48658, Stop: 48290, Start Num: 64
Candidate Starts for Serendipity_56:
(14, 48862), (16, 48817), (18, 48787), (Start: 62 @48661 has 161 MA's), (Start: 64 @48658 has 134 MA's), (80, 48619), (95, 48547), (119, 48376), (120, 48373), (133, 48322),

Gene: Serpentine_0056 Start: 48744, Stop: 48373, Start Num: 62
Candidate Starts for Serpentine_0056:
(14, 48945), (16, 48900), (18, 48870), (Start: 62 @48744 has 161 MA's), (Start: 64 @48741 has 134 MA's), (80, 48702), (97, 48621), (119, 48459), (120, 48456), (133, 48405),

Gene: Settecandela_28 Start: 15030, Stop: 15431, Start Num: 54
Candidate Starts for Settecandela_28:
(Start: 54 @15030 has 5 MA's), (76, 15078), (85, 15108), (107, 15240), (124, 15339), (132, 15363), (133, 15378), (145, 15417),

Gene: Shadow1_78 Start: 49985, Stop: 50368, Start Num: 46
Candidate Starts for Shadow1_78:
(Start: 46 @49985 has 18 MA's), (Start: 59 @50006 has 200 MA's), (84, 50060), (101, 50132), (106, 50171), (112, 50207), (116, 50243), (132, 50309),

Gene: ShadowBud_57 Start: 48634, Stop: 48266, Start Num: 64
Candidate Starts for ShadowBud_57:
(14, 48838), (16, 48793), (18, 48763), (Start: 62 @48637 has 161 MA's), (Start: 64 @48634 has 134 MA's), (80, 48595), (97, 48514), (119, 48352), (120, 48349), (133, 48298),

Gene: Shaqnato_22 Start: 7276, Stop: 7632, Start Num: 59
Candidate Starts for Shaqnato_22:
(Start: 59 @7276 has 200 MA's), (112, 7483), (133, 7579),

Gene: ShedlockHolmes_77 Start: 50038, Stop: 50421, Start Num: 38
Candidate Starts for ShedlockHolmes_77:
(Start: 38 @50038 has 6 MA's), (Start: 59 @50074 has 200 MA's), (78, 50110), (94, 50164), (104, 50215), (109, 50251), (110, 50257), (112, 50272), (132, 50374), (133, 50389),

Gene: Sheila_54 Start: 47702, Stop: 47334, Start Num: 64
Candidate Starts for Sheila_54:
(14, 47906), (16, 47861), (18, 47831), (41, 47744), (Start: 62 @47705 has 161 MA's), (Start: 64 @47702 has 134 MA's), (80, 47663), (97, 47582), (119, 47420), (120, 47417), (133, 47366),

Gene: Shelob_28 Start: 9584, Stop: 9940, Start Num: 59

Candidate Starts for Shelob_28:
(Start: 59 @9584 has 200 MA's), (112, 9791), (133, 9887),

Gene: Shenyu_54 Start: 48876, Stop: 48463, Start Num: 45
Candidate Starts for Shenyu_54:
(Start: 45 @48876 has 33 MA's), (80, 48804), (122, 48558), (123, 48555), (132, 48528),

Gene: ShiaLabeouf_26 Start: 8150, Stop: 8506, Start Num: 59
Candidate Starts for ShiaLabeouf_26:
(Start: 59 @8150 has 200 MA's), (98, 8264), (112, 8357), (133, 8453),

Gene: Shida_75 Start: 47211, Stop: 46834, Start Num: 56
Candidate Starts for Shida_75:
(Start: 56 @47211 has 79 MA's), (81, 47151), (84, 47139), (96, 47076), (112, 46983), (114, 46977), (117, 46932), (130, 46887), (137, 46848), (138, 46845),

Gene: Shifa_23 Start: 8335, Stop: 8691, Start Num: 59
Candidate Starts for Shifa_23:
(Start: 59 @8335 has 200 MA's), (112, 8542), (133, 8638),

Gene: Shnickers_26 Start: 8150, Stop: 8506, Start Num: 59
Candidate Starts for Shnickers_26:
(Start: 59 @8150 has 200 MA's), (98, 8264), (112, 8357), (133, 8453),

Gene: Shrimp_26 Start: 8703, Stop: 9059, Start Num: 59
Candidate Starts for Shrimp_26:
(Start: 59 @8703 has 200 MA's), (112, 8910), (133, 9006),

Gene: Shweta_40 Start: 29977, Stop: 30375, Start Num: 45
Candidate Starts for Shweta_40:
(Start: 45 @29977 has 33 MA's), (75, 30028), (80, 30043), (112, 30226), (114, 30232), (119, 30271), (125, 30283), (131, 30304), (132, 30307), (133, 30322), (145, 30361), (147, 30364),

Gene: Sigman_57 Start: 48294, Stop: 47926, Start Num: 64
Candidate Starts for Sigman_57:
(14, 48498), (16, 48453), (18, 48423), (Start: 62 @48297 has 161 MA's), (Start: 64 @48294 has 134 MA's), (80, 48255), (97, 48174), (119, 48012), (120, 48009), (133, 47958),

Gene: Silvafighter_43 Start: 30643, Stop: 31041, Start Num: 45
Candidate Starts for Silvafighter_43:
(Start: 45 @30643 has 33 MA's), (48, 30646), (75, 30694), (80, 30709), (112, 30892), (114, 30898), (125, 30949), (131, 30970), (132, 30973), (133, 30988), (139, 31012), (145, 31027), (147, 31030),

Gene: SilverBell_55 Start: 48382, Stop: 48011, Start Num: 62
Candidate Starts for SilverBell_55:
(14, 48583), (16, 48538), (18, 48508), (Start: 62 @48382 has 161 MA's), (Start: 64 @48379 has 134 MA's), (80, 48340), (97, 48259), (119, 48097), (120, 48094), (133, 48043),

Gene: SilverDipper_27 Start: 8154, Stop: 8510, Start Num: 59
Candidate Starts for SilverDipper_27:
(Start: 59 @8154 has 200 MA's), (98, 8268), (112, 8361), (133, 8457),

Gene: Simielle_55 Start: 48297, Stop: 47929, Start Num: 64

Candidate Starts for Simielle_55:
(8, 48660), (14, 48501), (16, 48456), (18, 48426), (Start: 62 @48300 has 161 MA's), (Start: 64 @48297 has 134 MA's), (80, 48258), (97, 48177), (119, 48015), (120, 48012), (133, 47961),

Gene: SirBeauregard_57 Start: 48867, Stop: 48496, Start Num: 62
Candidate Starts for SirBeauregard_57:
(14, 49068), (16, 49023), (18, 48993), (Start: 62 @48867 has 161 MA's), (Start: 64 @48864 has 134 MA's), (80, 48825), (97, 48744), (119, 48582), (120, 48579), (133, 48528),

Gene: SirHarley_57 Start: 42899, Stop: 43279, Start Num: 52
Candidate Starts for SirHarley_57:
(Start: 52 @42899 has 22 MA's), (72, 42932), (73, 42935), (74, 42938), (92, 42992), (93, 42995), (111, 43115), (133, 43226), (134, 43229),

Gene: SirJeffery_53 Start: 48507, Stop: 48112, Start Num: 57
Candidate Starts for SirJeffery_53:
(4, 48903), (6, 48858), (7, 48855), (Start: 45 @48525 has 33 MA's), (Start: 57 @48507 has 3 MA's), (80, 48453), (135, 48156), (148, 48123),

Gene: SirPhilip_73 Start: 50211, Stop: 50594, Start Num: 46
Candidate Starts for SirPhilip_73:
(Start: 46 @50211 has 18 MA's), (Start: 50 @50217 has 1 MA's), (78, 50271), (84, 50286), (95, 50328), (101, 50358), (106, 50397), (112, 50433), (122, 50508), (132, 50535),

Gene: SiwenD96_27 Start: 9585, Stop: 9941, Start Num: 59
Candidate Starts for SiwenD96_27:
(Start: 59 @9585 has 200 MA's), (98, 9699), (112, 9792), (133, 9888),

Gene: Skippy_57 Start: 48594, Stop: 48226, Start Num: 64
Candidate Starts for Skippy_57:
(14, 48798), (16, 48753), (18, 48723), (Start: 62 @48597 has 161 MA's), (Start: 64 @48594 has 134 MA's), (80, 48555), (97, 48474), (119, 48312), (120, 48309), (133, 48258),

Gene: Sknot_36 Start: 27377, Stop: 27772, Start Num: 56
Candidate Starts for Sknot_36:
(Start: 56 @27377 has 79 MA's), (116, 27635), (119, 27665), (132, 27701),

Gene: Slatt_57 Start: 48659, Stop: 48291, Start Num: 64
Candidate Starts for Slatt_57:
(14, 48863), (16, 48818), (18, 48788), (Start: 62 @48662 has 161 MA's), (Start: 64 @48659 has 134 MA's), (80, 48620), (97, 48539), (119, 48377), (120, 48374), (133, 48323),

Gene: SmallFry_26 Start: 8150, Stop: 8506, Start Num: 59
Candidate Starts for SmallFry_26:
(Start: 59 @8150 has 200 MA's), (98, 8264), (112, 8357), (133, 8453),

Gene: Smeagan_38 Start: 27763, Stop: 28161, Start Num: 56
Candidate Starts for Smeagan_38:
(Start: 56 @27763 has 79 MA's), (79, 27811), (119, 28054), (121, 28060), (132, 28090),

Gene: Smooch_78 Start: 49262, Stop: 48885, Start Num: 56
Candidate Starts for Smooch_78:

(Start: 32 @49310 has 4 MA's), (Start: 56 @49262 has 79 MA's), (81, 49202), (84, 49190), (96, 49127), (112, 49034), (114, 49028), (117, 48983), (130, 48938), (137, 48899), (138, 48896),

Gene: Smurph_42 Start: 30670, Stop: 31068, Start Num: 45
Candidate Starts for Smurph_42:
(Start: 45 @30670 has 33 MA's), (75, 30721), (80, 30736), (112, 30919), (114, 30925), (125, 30976), (131, 30997), (132, 31000), (133, 31015), (139, 31039), (145, 31054), (147, 31057),

Gene: SnapTap_36 Start: 27324, Stop: 27707, Start Num: 56
Candidate Starts for SnapTap_36:
(Start: 56 @27324 has 79 MA's), (93, 27408), (110, 27516), (116, 27567), (119, 27597), (143, 27684),

Gene: Snekmaggedon_40 Start: 29847, Stop: 30245, Start Num: 45
Candidate Starts for Snekmaggedon_40:
(Start: 45 @29847 has 33 MA's), (75, 29898), (80, 29913), (112, 30096), (114, 30102), (125, 30153), (131, 30174), (132, 30177), (133, 30192), (139, 30216), (145, 30231), (147, 30234),

Gene: SoilZilla_23 Start: 8404, Stop: 8760, Start Num: 59
Candidate Starts for SoilZilla_23:
(Start: 59 @8404 has 200 MA's), (98, 8518), (112, 8611), (133, 8707),

Gene: Soile_57 Start: 48882, Stop: 48514, Start Num: 64
Candidate Starts for Soile_57:
(8, 49245), (14, 49086), (16, 49041), (18, 49011), (Start: 62 @48885 has 161 MA's), (Start: 64 @48882 has 134 MA's), (80, 48843), (97, 48762), (119, 48600), (120, 48597), (133, 48546),

Gene: Solosis_55 Start: 48358, Stop: 47987, Start Num: 62
Candidate Starts for Solosis_55:
(14, 48559), (16, 48514), (18, 48484), (41, 48397), (Start: 62 @48358 has 161 MA's), (Start: 64 @48355 has 134 MA's), (80, 48316), (95, 48244), (119, 48073), (120, 48070), (133, 48019),

Gene: Sophia_55 Start: 48352, Stop: 47981, Start Num: 62
Candidate Starts for Sophia_55:
(14, 48553), (16, 48508), (18, 48478), (Start: 62 @48352 has 161 MA's), (Start: 64 @48349 has 134 MA's), (80, 48310), (95, 48238), (119, 48067), (120, 48064), (133, 48013),

Gene: Soto_54 Start: 47677, Stop: 47306, Start Num: 62
Candidate Starts for Soto_54:
(14, 47878), (16, 47833), (18, 47803), (41, 47716), (Start: 62 @47677 has 161 MA's), (Start: 64 @47674 has 134 MA's), (80, 47635), (97, 47554), (119, 47392), (120, 47389), (133, 47338),

Gene: Spartan300_55 Start: 48336, Stop: 47965, Start Num: 62
Candidate Starts for Spartan300_55:
(9, 48681), (14, 48537), (16, 48492), (18, 48462), (41, 48375), (Start: 62 @48336 has 161 MA's), (Start: 64 @48333 has 134 MA's), (97, 48213), (119, 48051), (120, 48048), (133, 47997),

Gene: Spec_26 Start: 8156, Stop: 8512, Start Num: 59
Candidate Starts for Spec_26:
(Start: 59 @8156 has 200 MA's), (98, 8270), (112, 8363), (133, 8459),

Gene: Specks_31 Start: 9988, Stop: 10344, Start Num: 59
Candidate Starts for Specks_31:
(Start: 59 @9988 has 200 MA's), (98, 10102), (112, 10195), (133, 10291),

Gene: SpongeBob_40 Start: 29847, Stop: 30245, Start Num: 45
Candidate Starts for SpongeBob_40:
(Start: 45 @29847 has 33 MA's), (75, 29898), (80, 29913), (112, 30096), (114, 30102), (125, 30153), (131, 30174), (132, 30177), (133, 30192), (139, 30216), (145, 30231), (147, 30234),

Gene: Sprinklers_26 Start: 8191, Stop: 8547, Start Num: 59
Candidate Starts for Sprinklers_26:
(Start: 59 @8191 has 200 MA's), (112, 8398), (133, 8494),

Gene: Spud_28 Start: 9548, Stop: 9904, Start Num: 59
Candidate Starts for Spud_28:
(Start: 59 @9548 has 200 MA's), (98, 9662), (112, 9755), (133, 9851),

Gene: Squid_56 Start: 48364, Stop: 47993, Start Num: 62
Candidate Starts for Squid_56:
(14, 48565), (16, 48520), (18, 48490), (41, 48403), (Start: 62 @48364 has 161 MA's), (Start: 64 @48361 has 134 MA's), (80, 48322), (95, 48250), (119, 48079), (120, 48076), (133, 48025),

Gene: Squiggle_57 Start: 48369, Stop: 48001, Start Num: 64
Candidate Starts for Squiggle_57:
(14, 48573), (16, 48528), (18, 48498), (Start: 62 @48372 has 161 MA's), (Start: 64 @48369 has 134 MA's), (80, 48330), (97, 48249), (119, 48087), (120, 48084), (133, 48033),

Gene: SrishMeg2525_25 Start: 8416, Stop: 8772, Start Num: 59
Candidate Starts for SrishMeg2525_25:
(Start: 59 @8416 has 200 MA's), (98, 8530), (112, 8623), (133, 8719),

Gene: StephanieG_26 Start: 8882, Stop: 9238, Start Num: 59
Candidate Starts for StephanieG_26:
(Start: 59 @8882 has 200 MA's), (98, 8996), (112, 9089), (133, 9185),

Gene: Stinger_49 Start: 46888, Stop: 46490, Start Num: 47
Candidate Starts for Stinger_49:
(Start: 47 @46888 has 20 MA's), (74, 46840), (75, 46837), (84, 46816), (120, 46591), (127, 46570), (135, 46534),

Gene: StinkyVeggy_54 Start: 48662, Stop: 48249, Start Num: 45
Candidate Starts for StinkyVeggy_54:
(Start: 45 @48662 has 33 MA's), (115, 48389), (122, 48344), (123, 48341), (132, 48314),

Gene: Strobilo_39 Start: 31471, Stop: 31088, Start Num: 40
Candidate Starts for Strobilo_39:
(Start: 40 @31471 has 11 MA's), (94, 31348), (104, 31297), (112, 31240), (121, 31168), (133, 31123), (139, 31099),

Gene: Struggle_56 Start: 48201, Stop: 47830, Start Num: 62
Candidate Starts for Struggle_56:
(8, 48561), (14, 48402), (16, 48357), (18, 48327), (Start: 62 @48201 has 161 MA's), (Start: 64 @48198 has 134 MA's), (80, 48159), (87, 48141), (95, 48087), (119, 47916), (120, 47913), (133, 47862),

Gene: Stubby_24 Start: 7962, Stop: 8318, Start Num: 59
Candidate Starts for Stubby_24:

(Start: 59 @7962 has 200 MA's), (112, 8169), (133, 8265),

Gene: StubbySaigey_25 Start: 7342, Stop: 7698, Start Num: 59
Candidate Starts for StubbySaigey_25:
(Start: 59 @7342 has 200 MA's), (112, 7549), (133, 7645),

Gene: Stuck_54 Start: 40451, Stop: 40849, Start Num: 44
Candidate Starts for Stuck_54:
(25, 40394), (Start: 44 @40451 has 11 MA's), (66, 40481), (80, 40517), (112, 40700), (114, 40706), (119, 40745), (125, 40757), (131, 40778), (132, 40781), (133, 40796), (145, 40835), (147, 40838),

Gene: Substance289_23 Start: 7630, Stop: 7986, Start Num: 59
Candidate Starts for Substance289_23:
(Start: 59 @7630 has 200 MA's), (98, 7744), (112, 7837), (133, 7933),

Gene: Suffolk_54 Start: 47667, Stop: 47296, Start Num: 62
Candidate Starts for Suffolk_54:
(14, 47868), (16, 47823), (18, 47793), (41, 47706), (Start: 62 @47667 has 161 MA's), (Start: 64 @47664 has 134 MA's), (80, 47625), (97, 47544), (119, 47382), (120, 47379), (133, 47328),

Gene: Suigeneris_55 Start: 48805, Stop: 48392, Start Num: 45
Candidate Starts for Suigeneris_55:
(4, 49183), (6, 49138), (7, 49135), (Start: 45 @48805 has 33 MA's), (Start: 57 @48787 has 3 MA's), (80, 48733), (135, 48436), (148, 48403),

Gene: Sunflower1121_79 Start: 50131, Stop: 50514, Start Num: 46
Candidate Starts for Sunflower1121_79:
(Start: 46 @50131 has 18 MA's), (Start: 59 @50152 has 200 MA's), (84, 50206), (101, 50278), (106, 50317), (112, 50353), (116, 50389), (129, 50446), (132, 50455),

Gene: SuperheroCarly_56 Start: 42573, Stop: 42953, Start Num: 52
Candidate Starts for SuperheroCarly_56:
(Start: 52 @42573 has 22 MA's), (72, 42606), (73, 42609), (74, 42612), (92, 42666), (93, 42669), (111, 42789), (133, 42900), (134, 42903),

Gene: Surely_56 Start: 48654, Stop: 48283, Start Num: 62
Candidate Starts for Surely_56:
(14, 48855), (16, 48810), (18, 48780), (41, 48693), (Start: 62 @48654 has 161 MA's), (Start: 64 @48651 has 134 MA's), (80, 48612), (95, 48540), (119, 48369), (120, 48366), (133, 48315),

Gene: SweetiePie_36 Start: 27324, Stop: 27707, Start Num: 56
Candidate Starts for SweetiePie_36:
(Start: 56 @27324 has 79 MA's), (93, 27408), (110, 27516), (116, 27567), (119, 27597), (143, 27684),

Gene: Swiphy_57 Start: 48652, Stop: 48284, Start Num: 64
Candidate Starts for Swiphy_57:
(8, 49015), (14, 48856), (16, 48811), (18, 48781), (41, 48694), (Start: 62 @48655 has 161 MA's), (Start: 64 @48652 has 134 MA's), (97, 48532), (119, 48370), (120, 48367), (133, 48316),

Gene: Swish_57 Start: 48316, Stop: 47948, Start Num: 64
Candidate Starts for Swish_57:
(14, 48520), (16, 48475), (18, 48445), (Start: 62 @48319 has 161 MA's), (Start: 64 @48316 has 134 MA's), (80, 48277), (97, 48196), (119, 48034), (120, 48031), (133, 47980),

Gene: Syra333_77 Start: 49859, Stop: 50242, Start Num: 46
Candidate Starts for Syra333_77:
(Start: 46 @49859 has 18 MA's), (Start: 50 @49865 has 1 MA's), (Start: 59 @49880 has 200 MA's), (61, 49886), (78, 49919), (84, 49934), (101, 50006), (106, 50045), (112, 50081), (116, 50117), (129, 50174), (132, 50183), (146, 50237),

Gene: TBond007_71 Start: 49524, Stop: 49919, Start Num: 38
Candidate Starts for TBond007_71:
(Start: 38 @49524 has 6 MA's), (Start: 59 @49560 has 200 MA's), (78, 49596), (110, 49743), (112, 49758), (116, 49794), (144, 49911),

Gene: TClif_75 Start: 49609, Stop: 49980, Start Num: 46
Candidate Starts for TClif_75:
(Start: 46 @49609 has 18 MA's), (78, 49660), (101, 49744), (112, 49819), (129, 49912), (132, 49921),

Gene: TM4_93 Start: 31140, Stop: 30757, Start Num: 40
Candidate Starts for TM4_93:
(Start: 40 @31140 has 11 MA's), (78, 31080), (94, 31017), (104, 30966), (109, 30930), (112, 30909), (121, 30837), (133, 30792),

Gene: Tainan_31 Start: 10269, Stop: 10625, Start Num: 59
Candidate Starts for Tainan_31:
(Start: 59 @10269 has 200 MA's), (98, 10383), (112, 10476), (133, 10572),

Gene: TallGrassMM_56 Start: 48268, Stop: 47897, Start Num: 62
Candidate Starts for TallGrassMM_56:
(14, 48469), (16, 48424), (18, 48394), (41, 48307), (Start: 62 @48268 has 161 MA's), (Start: 64 @48265 has 134 MA's), (80, 48226), (95, 48154), (119, 47983), (120, 47980), (133, 47929),

Gene: Tapioca_44 Start: 30636, Stop: 31034, Start Num: 45
Candidate Starts for Tapioca_44:
(Start: 45 @30636 has 33 MA's), (75, 30687), (80, 30702), (112, 30885), (114, 30891), (125, 30942), (131, 30963), (132, 30966), (133, 30981), (139, 31005), (145, 31020), (147, 31023),

Gene: Taptic_44 Start: 40128, Stop: 40529, Start Num: 44
Candidate Starts for Taptic_44:
(Start: 44 @40128 has 11 MA's), (Start: 53 @40143 has 3 MA's), (109, 40359), (110, 40365), (112, 40380), (126, 40440), (131, 40458), (132, 40461), (133, 40476), (145, 40515), (147, 40518),

Gene: Taraxa_57 Start: 48105, Stop: 47734, Start Num: 62
Candidate Starts for Taraxa_57:
(14, 48306), (16, 48261), (18, 48231), (41, 48144), (Start: 62 @48105 has 161 MA's), (Start: 64 @48102 has 134 MA's), (80, 48063), (95, 47991), (119, 47820), (120, 47817), (133, 47766),

Gene: TarsusIV_35 Start: 27299, Stop: 27697, Start Num: 56
Candidate Starts for TarsusIV_35:
(Start: 56 @27299 has 79 MA's), (112, 27521), (116, 27557), (119, 27587), (127, 27611), (132, 27626), (147, 27683),

Gene: Teardrop_25 Start: 7615, Stop: 7971, Start Num: 59
Candidate Starts for Teardrop_25:
(Start: 59 @7615 has 200 MA's), (112, 7822), (133, 7918),

Gene: TelAviv_72 Start: 47505, Stop: 47128, Start Num: 56
Candidate Starts for TelAviv_72:
(Start: 56 @47505 has 79 MA's), (81, 47445), (84, 47433), (96, 47370), (112, 47277), (114, 47271), (117, 47226), (130, 47181), (137, 47142), (138, 47139),

Gene: Telesworld_54 Start: 48431, Stop: 48060, Start Num: 62
Candidate Starts for Telesworld_54:
(14, 48632), (16, 48587), (18, 48557), (41, 48470), (Start: 62 @48431 has 161 MA's), (Start: 64 @48428 has 134 MA's), (80, 48389), (95, 48317), (119, 48146), (120, 48143), (133, 48092),

Gene: Terrific_37 Start: 27717, Stop: 28112, Start Num: 56
Candidate Starts for Terrific_37:
(Start: 56 @27717 has 79 MA's), (78, 27762), (116, 27975), (119, 28005), (132, 28041),

Gene: Tessdabest_43 Start: 30667, Stop: 31065, Start Num: 45
Candidate Starts for Tessdabest_43:
(Start: 45 @30667 has 33 MA's), (75, 30718), (80, 30733), (112, 30916), (114, 30922), (125, 30973), (131, 30994), (132, 30997), (133, 31012), (139, 31036), (145, 31051), (147, 31054),

Gene: Thora_56 Start: 48650, Stop: 48279, Start Num: 62
Candidate Starts for Thora_56:
(14, 48851), (16, 48806), (18, 48776), (Start: 62 @48650 has 161 MA's), (Start: 64 @48647 has 134 MA's), (80, 48608), (97, 48527), (119, 48365), (120, 48362), (133, 48311),

Gene: Thoth_56 Start: 42721, Stop: 43101, Start Num: 52
Candidate Starts for Thoth_56:
(Start: 52 @42721 has 22 MA's), (72, 42754), (73, 42757), (74, 42760), (92, 42814), (93, 42817), (111, 42937), (133, 43048), (134, 43051),

Gene: ThreeOh3D2_57 Start: 48870, Stop: 48499, Start Num: 62
Candidate Starts for ThreeOh3D2_57:
(14, 49071), (16, 49026), (18, 48996), (Start: 62 @48870 has 161 MA's), (Start: 64 @48867 has 134 MA's), (80, 48828), (97, 48747), (119, 48585), (120, 48582), (133, 48531),

Gene: Thumb_72 Start: 52173, Stop: 52541, Start Num: 59
Candidate Starts for Thumb_72:
(Start: 59 @52173 has 200 MA's), (73, 52200), (77, 52212), (93, 52260), (94, 52275), (118, 52437), (132, 52473), (134, 52491),

Gene: Thunderbird_55 Start: 48353, Stop: 47985, Start Num: 64
Candidate Starts for Thunderbird_55:
(8, 48716), (14, 48557), (16, 48512), (18, 48482), (Start: 62 @48356 has 161 MA's), (Start: 64 @48353 has 134 MA's), (80, 48314), (87, 48296), (95, 48242), (119, 48071), (120, 48068), (133, 48017),

Gene: Tigress9_78 Start: 50174, Stop: 50557, Start Num: 46
Candidate Starts for Tigress9_78:
(Start: 46 @50174 has 18 MA's), (Start: 59 @50195 has 200 MA's), (78, 50234), (84, 50249), (101, 50321), (106, 50360), (112, 50396), (116, 50432), (132, 50498),

Gene: Timmi_55 Start: 48350, Stop: 47982, Start Num: 64
Candidate Starts for Timmi_55:

(14, 48554), (16, 48509), (18, 48479), (Start: 62 @48353 has 161 MA's), (Start: 64 @48350 has 134 MA's), (80, 48311), (95, 48239), (119, 48068), (120, 48065), (133, 48014),

Gene: TinyTim_26 Start: 8699, Stop: 9055, Start Num: 59
Candidate Starts for TinyTim_26:
(Start: 59 @8699 has 200 MA's), (112, 8906), (133, 9002),

Gene: TomBombadil_56 Start: 48638, Stop: 48267, Start Num: 62
Candidate Starts for TomBombadil_56:
(14, 48839), (16, 48794), (18, 48764), (41, 48677), (Start: 62 @48638 has 161 MA's), (Start: 64 @48635 has 134 MA's), (80, 48596), (95, 48524), (119, 48353), (120, 48350), (133, 48299),

Gene: Tomlarah_57 Start: 49162, Stop: 48794, Start Num: 64
Candidate Starts for Tomlarah_57:
(14, 49366), (16, 49321), (18, 49291), (Start: 62 @49165 has 161 MA's), (Start: 64 @49162 has 134 MA's), (80, 49123), (97, 49042), (119, 48880), (120, 48877), (133, 48826),

Gene: Toni_55 Start: 48315, Stop: 47944, Start Num: 62
Candidate Starts for Toni_55:
(14, 48516), (16, 48471), (18, 48441), (Start: 62 @48315 has 161 MA's), (Start: 64 @48312 has 134 MA's), (80, 48273), (97, 48192), (119, 48030), (120, 48027), (133, 47976),

Gene: TooFast2Furius_56 Start: 48574, Stop: 48206, Start Num: 64
Candidate Starts for TooFast2Furius_56:
(14, 48778), (16, 48733), (18, 48703), (Start: 62 @48577 has 161 MA's), (Start: 64 @48574 has 134 MA's), (80, 48535), (97, 48454), (119, 48292), (120, 48289), (133, 48238),

Gene: Tooj_54 Start: 47781, Stop: 47410, Start Num: 62
Candidate Starts for Tooj_54:
(14, 47982), (16, 47937), (18, 47907), (41, 47820), (Start: 62 @47781 has 161 MA's), (Start: 64 @47778 has 134 MA's), (80, 47739), (95, 47667), (97, 47658), (119, 47496), (120, 47493), (133, 47442),

Gene: Tortoise12_41 Start: 29353, Stop: 29751, Start Num: 45
Candidate Starts for Tortoise12_41:
(Start: 45 @29353 has 33 MA's), (75, 29404), (80, 29419), (112, 29602), (114, 29608), (125, 29659), (131, 29680), (132, 29683), (133, 29698), (139, 29722), (145, 29737), (147, 29740),

Gene: Tortoise16_25 Start: 8150, Stop: 8506, Start Num: 59
Candidate Starts for Tortoise16_25:
(Start: 59 @8150 has 200 MA's), (98, 8264), (112, 8357), (133, 8453),

Gene: Triad_56 Start: 47565, Stop: 47194, Start Num: 62
Candidate Starts for Triad_56:
(14, 47766), (16, 47721), (18, 47691), (41, 47604), (Start: 62 @47565 has 161 MA's), (Start: 64 @47562 has 134 MA's), (80, 47523), (95, 47451), (97, 47442), (119, 47280), (120, 47277), (133, 47226),

Gene: Trinitium_25 Start: 7591, Stop: 7947, Start Num: 59
Candidate Starts for Trinitium_25:
(Start: 59 @7591 has 200 MA's), (112, 7798), (133, 7894),

Gene: Troll4_56 Start: 42852, Stop: 43232, Start Num: 52

Candidate Starts for Troll4_56:
(Start: 52 @42852 has 22 MA's), (72, 42885), (73, 42888), (74, 42891), (92, 42945), (93, 42948), (111, 43068), (133, 43179), (134, 43182),

Gene: Trooper_37 Start: 27533, Stop: 27931, Start Num: 56
Candidate Starts for Trooper_37:
(Start: 56 @27533 has 79 MA's), (70, 27560), (79, 27581), (102, 27683), (112, 27755), (116, 27791), (119, 27821), (123, 27833), (127, 27845), (147, 27917),

Gene: True_55 Start: 48318, Stop: 47950, Start Num: 64
Candidate Starts for True_55:
(14, 48522), (16, 48477), (18, 48447), (Start: 62 @48321 has 161 MA's), (Start: 64 @48318 has 134 MA's), (80, 48279), (97, 48198), (119, 48036), (120, 48033), (133, 47982),

Gene: Trypo_58 Start: 48787, Stop: 48416, Start Num: 62
Candidate Starts for Trypo_58:
(8, 49147), (14, 48988), (16, 48943), (18, 48913), (Start: 62 @48787 has 161 MA's), (Start: 64 @48784 has 134 MA's), (80, 48745), (87, 48727), (95, 48673), (97, 48664), (119, 48502), (120, 48499), (133, 48448),

Gene: Turbido_36 Start: 27512, Stop: 27892, Start Num: 56
Candidate Starts for Turbido_36:
(Start: 56 @27512 has 79 MA's), (93, 27593), (110, 27701), (119, 27782), (143, 27869),

Gene: Turret_24 Start: 7330, Stop: 7686, Start Num: 59
Candidate Starts for Turret_24:
(Start: 59 @7330 has 200 MA's), (112, 7537), (133, 7633),

Gene: Tyke_28 Start: 9562, Stop: 9918, Start Num: 59
Candidate Starts for Tyke_28:
(Start: 59 @9562 has 200 MA's), (98, 9676), (112, 9769), (133, 9865),

Gene: Typha_103 Start: 64758, Stop: 65096, Start Num: 58
Candidate Starts for Typha_103:
(Start: 58 @64758 has 4 MA's), (65, 64770), (83, 64809), (84, 64812), (114, 64968),

Gene: TyrionL_56 Start: 48209, Stop: 47841, Start Num: 64
Candidate Starts for TyrionL_56:
(8, 48572), (14, 48413), (16, 48368), (18, 48338), (Start: 62 @48212 has 161 MA's), (Start: 64 @48209 has 134 MA's), (80, 48170), (87, 48152), (95, 48098), (97, 48089), (119, 47927), (120, 47924), (133, 47873),

Gene: UAch1_55 Start: 48387, Stop: 48019, Start Num: 64
Candidate Starts for UAch1_55:
(14, 48591), (16, 48546), (18, 48516), (41, 48429), (Start: 62 @48390 has 161 MA's), (Start: 64 @48387 has 134 MA's), (80, 48348), (95, 48276), (119, 48105), (120, 48102), (133, 48051),

Gene: Ubuntu_43 Start: 33316, Stop: 32891, Start Num: 37
Candidate Starts for Ubuntu_43:
(Start: 17 @33409 has 4 MA's), (Start: 37 @33316 has 17 MA's), (Start: 53 @33292 has 3 MA's), (74, 33250), (75, 33247), (82, 33226), (89, 33205), (93, 33175), (109, 33073), (132, 32959), (133, 32944), (134, 32941), (139, 32920), (148, 32899),

Gene: UncleHowie_55 Start: 48065, Stop: 47694, Start Num: 62
Candidate Starts for UncleHowie_55:
(14, 48266), (16, 48221), (18, 48191), (Start: 62 @48065 has 161 MA's), (Start: 64 @48062 has 134 MA's), (80, 48023), (97, 47942), (119, 47780), (120, 47777), (133, 47726),

Gene: Updawg_37 Start: 27705, Stop: 28100, Start Num: 56
Candidate Starts for Updawg_37:
(Start: 56 @27705 has 79 MA's), (116, 27963), (119, 27993), (132, 28029),

Gene: Usavi_56 Start: 48730, Stop: 48362, Start Num: 64
Candidate Starts for Usavi_56:
(14, 48934), (16, 48889), (18, 48859), (Start: 62 @48733 has 161 MA's), (Start: 64 @48730 has 134 MA's), (80, 48691), (97, 48610), (119, 48448), (120, 48445), (133, 48394),

Gene: Vagabond_76 Start: 47417, Stop: 47040, Start Num: 56
Candidate Starts for Vagabond_76:
(Start: 56 @47417 has 79 MA's), (81, 47357), (84, 47345), (96, 47282), (112, 47189), (114, 47183), (117, 47138), (130, 47093), (137, 47054), (138, 47051),

Gene: Vaishali24_54 Start: 48025, Stop: 47654, Start Num: 62
Candidate Starts for Vaishali24_54:
(14, 48226), (16, 48181), (18, 48151), (41, 48064), (Start: 62 @48025 has 161 MA's), (Start: 64 @48022 has 134 MA's), (80, 47983), (95, 47911), (97, 47902), (119, 47740), (120, 47737), (133, 47686),

Gene: Valjean_55 Start: 48346, Stop: 47975, Start Num: 62
Candidate Starts for Valjean_55:
(9, 48691), (14, 48547), (16, 48502), (18, 48472), (41, 48385), (Start: 62 @48346 has 161 MA's), (Start: 64 @48343 has 134 MA's), (97, 48223), (119, 48061), (120, 48058), (133, 48007),

Gene: ValleyTerrace_26 Start: 8154, Stop: 8510, Start Num: 59
Candidate Starts for ValleyTerrace_26:
(Start: 59 @8154 has 200 MA's), (98, 8268), (112, 8361), (133, 8457),

Gene: Vaticameos_53 Start: 46856, Stop: 46485, Start Num: 62
Candidate Starts for Vaticameos_53:
(14, 47057), (16, 47012), (18, 46982), (Start: 62 @46856 has 161 MA's), (Start: 64 @46853 has 134 MA's), (80, 46814), (97, 46733), (119, 46571), (120, 46568), (133, 46517),

Gene: Vectra_57 Start: 48469, Stop: 48098, Start Num: 62
Candidate Starts for Vectra_57:
(14, 48670), (16, 48625), (18, 48595), (41, 48508), (Start: 62 @48469 has 161 MA's), (Start: 64 @48466 has 134 MA's), (80, 48427), (95, 48355), (119, 48184), (120, 48181), (133, 48130),

Gene: Veritas_57 Start: 48481, Stop: 48110, Start Num: 62
Candidate Starts for Veritas_57:
(14, 48682), (16, 48637), (18, 48607), (41, 48520), (Start: 62 @48481 has 161 MA's), (Start: 64 @48478 has 134 MA's), (80, 48439), (95, 48367), (119, 48196), (120, 48193), (133, 48142),

Gene: Vincenzo_51 Start: 48916, Stop: 48518, Start Num: 47
Candidate Starts for Vincenzo_51:
(Start: 47 @48916 has 20 MA's), (73, 48871), (74, 48868), (91, 48826), (120, 48619),

Gene: VioletZ_51 Start: 48276, Stop: 47878, Start Num: 47
Candidate Starts for VioletZ_51:
(Start: 47 @48276 has 20 MA's), (74, 48228), (75, 48225), (84, 48204), (120, 47979), (127, 47958), (135, 47922),

Gene: Virapocalypse_57 Start: 48643, Stop: 48275, Start Num: 64
Candidate Starts for Virapocalypse_57:
(8, 49006), (14, 48847), (16, 48802), (18, 48772), (Start: 62 @48646 has 161 MA's), (Start: 64 @48643 has 134 MA's), (80, 48604), (87, 48586), (95, 48532), (97, 48523), (119, 48361), (120, 48358), (133, 48307),

Gene: Virgeve_55 Start: 48083, Stop: 47712, Start Num: 62
Candidate Starts for Virgeve_55:
(8, 48443), (14, 48284), (16, 48239), (18, 48209), (41, 48122), (Start: 62 @48083 has 161 MA's), (Start: 64 @48080 has 134 MA's), (97, 47960), (119, 47798), (120, 47795), (133, 47744),

Gene: Visconti_57 Start: 42732, Stop: 43112, Start Num: 52
Candidate Starts for Visconti_57:
(Start: 52 @42732 has 22 MA's), (72, 42765), (73, 42768), (74, 42771), (92, 42825), (93, 42828), (111, 42948), (133, 43059), (134, 43062),

Gene: Vista_55 Start: 48366, Stop: 47995, Start Num: 62
Candidate Starts for Vista_55:
(14, 48567), (16, 48522), (18, 48492), (Start: 62 @48366 has 161 MA's), (Start: 64 @48363 has 134 MA's), (80, 48324), (97, 48243), (119, 48081), (120, 48078), (133, 48027),

Gene: Vivaldi_57 Start: 48512, Stop: 48144, Start Num: 64
Candidate Starts for Vivaldi_57:
(14, 48716), (16, 48671), (18, 48641), (41, 48554), (Start: 62 @48515 has 161 MA's), (Start: 64 @48512 has 134 MA's), (80, 48473), (95, 48401), (97, 48392), (119, 48230), (120, 48227), (133, 48176),

Gene: Vorrps_76 Start: 47629, Stop: 47252, Start Num: 56
Candidate Starts for Vorrps_76:
(Start: 56 @47629 has 79 MA's), (81, 47569), (84, 47557), (96, 47494), (112, 47401), (114, 47395), (117, 47350), (130, 47305), (137, 47266), (138, 47263),

Gene: Vortex_56 Start: 48348, Stop: 47977, Start Num: 62
Candidate Starts for Vortex_56:
(14, 48549), (16, 48504), (18, 48474), (Start: 62 @48348 has 161 MA's), (Start: 64 @48345 has 134 MA's), (80, 48306), (95, 48234), (119, 48063), (120, 48060), (133, 48009),

Gene: WST1_41 Start: 28367, Stop: 28759, Start Num: 45
Candidate Starts for WST1_41:
(Start: 45 @28367 has 33 MA's), (55, 28376), (75, 28412), (114, 28616), (125, 28667), (132, 28691), (134, 28709), (145, 28745),

Gene: WaldoWhy_58 Start: 42785, Stop: 43165, Start Num: 52
Candidate Starts for WaldoWhy_58:
(Start: 52 @42785 has 22 MA's), (72, 42818), (73, 42821), (74, 42824), (92, 42878), (93, 42881), (111, 43001), (133, 43112), (134, 43115),

Gene: Wallhey_56 Start: 48216, Stop: 47845, Start Num: 62

Candidate Starts for Wallhey_56:
(8, 48576), (14, 48417), (16, 48372), (18, 48342), (Start: 62 @48216 has 161 MA's), (Start: 64 @48213 has 134 MA's), (80, 48174), (87, 48156), (95, 48102), (97, 48093), (119, 47931), (120, 47928), (133, 47877),

Gene: Wally_25 Start: 7577, Stop: 7933, Start Num: 59
Candidate Starts for Wally_25:
(Start: 59 @7577 has 200 MA's), (98, 7691), (112, 7784), (133, 7880),

Gene: Waterdiva_56 Start: 48724, Stop: 48356, Start Num: 64
Candidate Starts for Waterdiva_56:
(14, 48928), (16, 48883), (18, 48853), (Start: 62 @48727 has 161 MA's), (Start: 64 @48724 has 134 MA's), (80, 48685), (97, 48604), (119, 48442), (120, 48439), (133, 48388),

Gene: Webster2_43 Start: 33292, Stop: 32891, Start Num: 53
Candidate Starts for Webster2_43:
(Start: 17 @33409 has 4 MA's), (Start: 37 @33316 has 17 MA's), (Start: 53 @33292 has 3 MA's), (74, 33250), (75, 33247), (82, 33226), (89, 33205), (93, 33175), (109, 33073), (132, 32959), (133, 32944), (134, 32941), (139, 32920), (148, 32899),

Gene: Weher20_56 Start: 49168, Stop: 48800, Start Num: 64
Candidate Starts for Weher20_56:
(14, 49372), (16, 49327), (18, 49297), (Start: 62 @49171 has 161 MA's), (Start: 64 @49168 has 134 MA's), (80, 49129), (97, 49048), (119, 48886), (120, 48883), (133, 48832),

Gene: WeiHuaDA_39 Start: 28941, Stop: 29318, Start Num: 56
Candidate Starts for WeiHuaDA_39:
(Start: 56 @28941 has 79 MA's), (73, 28974), (116, 29181), (119, 29211), (121, 29217), (132, 29247),

Gene: Weirdo19_40 Start: 31397, Stop: 31011, Start Num: 34
Candidate Starts for Weirdo19_40:
(34, 31397), (63, 31340), (77, 31313), (78, 31310), (94, 31256), (95, 31253), (105, 31202), (106, 31184), (112, 31148), (114, 31142), (132, 31064), (134, 31046), (141, 31022), (142, 31016),

Gene: Weiss13_55 Start: 42405, Stop: 42806, Start Num: 47
Candidate Starts for Weiss13_55:
(Start: 47 @42405 has 20 MA's), (Start: 54 @42417 has 5 MA's), (Start: 60 @42429 has 1 MA's), (68, 42441), (74, 42450), (90, 42501), (107, 42615), (112, 42645), (131, 42735), (132, 42738),

Gene: Whabigail7_36 Start: 27500, Stop: 27880, Start Num: 56
Candidate Starts for Whabigail7_36:
(Start: 56 @27500 has 79 MA's), (93, 27581), (110, 27689), (116, 27740), (119, 27770), (143, 27857),

Gene: WideWale_37 Start: 27705, Stop: 28100, Start Num: 56
Candidate Starts for WideWale_37:
(Start: 56 @27705 has 79 MA's), (116, 27963), (119, 27993), (132, 28029),

Gene: Wildflower_76 Start: 47353, Stop: 46976, Start Num: 56
Candidate Starts for Wildflower_76:
(Start: 32 @47401 has 4 MA's), (Start: 56 @47353 has 79 MA's), (81, 47293), (84, 47281), (96, 47218), (112, 47125), (114, 47119), (117, 47074), (130, 47029), (137, 46990), (138, 46987),

Gene: Willis_26 Start: 8594, Stop: 8950, Start Num: 59

Candidate Starts for Willis_26:
(Start: 59 @8594 has 200 MA's), (112, 8801), (133, 8897),

Gene: Windsor_56 Start: 48871, Stop: 48500, Start Num: 62
Candidate Starts for Windsor_56:
(14, 49072), (16, 49027), (18, 48997), (Start: 62 @48871 has 161 MA's), (Start: 64 @48868 has 134 MA's), (80, 48829), (97, 48748), (119, 48586), (120, 48583), (133, 48532),

Gene: Winget_76 Start: 47798, Stop: 47421, Start Num: 56
Candidate Starts for Winget_76:
(Start: 56 @47798 has 79 MA's), (81, 47738), (84, 47726), (96, 47663), (112, 47570), (114, 47564), (117, 47519), (130, 47474), (137, 47435), (138, 47432),

Gene: Wishmaker_41 Start: 33409, Stop: 32891, Start Num: 17
Candidate Starts for Wishmaker_41:
(Start: 17 @33409 has 4 MA's), (Start: 37 @33316 has 17 MA's), (Start: 53 @33292 has 3 MA's), (74, 33250), (75, 33247), (82, 33226), (89, 33205), (93, 33175), (109, 33073), (132, 32959), (133, 32944), (134, 32941), (139, 32920), (148, 32899),

Gene: Wogge42_75 Start: 47288, Stop: 46911, Start Num: 56
Candidate Starts for Wogge42_75:
(Start: 56 @47288 has 79 MA's), (81, 47228), (84, 47216), (96, 47153), (112, 47060), (114, 47054), (117, 47009), (130, 46964), (137, 46925), (138, 46922),

Gene: Xavier_55 Start: 48355, Stop: 47984, Start Num: 62
Candidate Starts for Xavier_55:
(14, 48556), (16, 48511), (18, 48481), (Start: 62 @48355 has 161 MA's), (Start: 64 @48352 has 134 MA's), (80, 48313), (95, 48241), (119, 48070), (120, 48067), (133, 48016),

Gene: Xerxes_42 Start: 30667, Stop: 31065, Start Num: 45
Candidate Starts for Xerxes_42:
(Start: 45 @30667 has 33 MA's), (75, 30718), (80, 30733), (112, 30916), (114, 30922), (125, 30973), (131, 30994), (132, 30997), (133, 31012), (139, 31036), (145, 31051), (147, 31054),

Gene: Ximenita_79 Start: 50183, Stop: 50566, Start Num: 46
Candidate Starts for Ximenita_79:
(Start: 46 @50183 has 18 MA's), (Start: 50 @50189 has 1 MA's), (Start: 59 @50204 has 200 MA's), (61, 50210), (78, 50243), (84, 50258), (101, 50330), (106, 50369), (112, 50405), (116, 50441), (129, 50498), (132, 50507), (146, 50561),

Gene: Xincheng_50 Start: 49257, Stop: 48859, Start Num: 47
Candidate Starts for Xincheng_50:
(Start: 47 @49257 has 20 MA's), (72, 49215), (74, 49209), (75, 49206), (120, 48960), (127, 48939), (135, 48903),

Gene: Yassified_23 Start: 7354, Stop: 7710, Start Num: 59
Candidate Starts for Yassified_23:
(Start: 59 @7354 has 200 MA's), (112, 7561), (133, 7657),

Gene: Yelo_55 Start: 42754, Stop: 43185, Start Num: 31
Candidate Starts for Yelo_55:
(Start: 20 @42715 has 6 MA's), (Start: 31 @42754 has 2 MA's), (Start: 47 @42784 has 20 MA's), (Start: 54 @42796 has 5 MA's), (Start: 60 @42808 has 1 MA's), (69, 42823), (74, 42829), (90, 42880),

(107, 42994), (112, 43024), (131, 43114), (132, 43117), (133, 43132),

Gene: YemiJoy2021_27 Start: 8699, Stop: 9055, Start Num: 59
Candidate Starts for YemiJoy2021_27:
(Start: 59 @8699 has 200 MA's), (112, 8906), (133, 9002),

Gene: Yoshand_57 Start: 48332, Stop: 47961, Start Num: 62
Candidate Starts for Yoshand_57:
(14, 48533), (16, 48488), (18, 48458), (Start: 62 @48332 has 161 MA's), (Start: 64 @48329 has 134 MA's), (80, 48290), (97, 48209), (119, 48047), (120, 48044), (133, 47993),

Gene: YouGoGlencoco_57 Start: 48650, Stop: 48279, Start Num: 62
Candidate Starts for YouGoGlencoco_57:
(14, 48851), (16, 48806), (18, 48776), (Start: 62 @48650 has 161 MA's), (Start: 64 @48647 has 134 MA's), (80, 48608), (87, 48590), (95, 48536), (97, 48527), (119, 48365), (120, 48362), (133, 48311),

Gene: YoungMoneyMata_26 Start: 7905, Stop: 8261, Start Num: 59
Candidate Starts for YoungMoneyMata_26:
(Start: 59 @7905 has 200 MA's), (98, 8019), (112, 8112), (133, 8208),

Gene: YoyoKar_73 Start: 47082, Stop: 46705, Start Num: 56
Candidate Starts for YoyoKar_73:
(Start: 56 @47082 has 79 MA's), (81, 47022), (84, 47010), (96, 46947), (112, 46854), (114, 46848), (117, 46803), (130, 46758), (137, 46719), (138, 46716),

Gene: Yucca_26 Start: 8621, Stop: 8977, Start Num: 59
Candidate Starts for Yucca_26:
(Start: 59 @8621 has 200 MA's), (112, 8828), (133, 8924),

Gene: YungJamal_80 Start: 48976, Stop: 48599, Start Num: 56
Candidate Starts for YungJamal_80:
(Start: 32 @49024 has 4 MA's), (Start: 56 @48976 has 79 MA's), (81, 48916), (84, 48904), (96, 48841), (112, 48748), (114, 48742), (117, 48697), (130, 48652), (137, 48613), (138, 48610),

Gene: Zaider_56 Start: 48590, Stop: 48219, Start Num: 62
Candidate Starts for Zaider_56:
(9, 48935), (14, 48791), (16, 48746), (18, 48716), (41, 48629), (Start: 62 @48590 has 161 MA's), (Start: 64 @48587 has 134 MA's), (97, 48467), (119, 48305), (120, 48302), (133, 48251),

Gene: Zakhe101_75 Start: 47767, Stop: 47390, Start Num: 56
Candidate Starts for Zakhe101_75:
(Start: 32 @47815 has 4 MA's), (Start: 56 @47767 has 79 MA's), (81, 47707), (84, 47695), (96, 47632), (112, 47539), (114, 47533), (117, 47488), (130, 47443), (137, 47404), (138, 47401),

Gene: Zalkecks_28 Start: 8703, Stop: 9059, Start Num: 59
Candidate Starts for Zalkecks_28:
(13, 8466), (Start: 59 @8703 has 200 MA's), (112, 8910), (133, 9006),

Gene: Zebo_75 Start: 47529, Stop: 47152, Start Num: 56
Candidate Starts for Zebo_75:
(Start: 56 @47529 has 79 MA's), (81, 47469), (84, 47457), (96, 47394), (112, 47301), (114, 47295), (117, 47250), (130, 47205), (137, 47166), (138, 47163),

Gene: Zeenon_28 Start: 8691, Stop: 9047, Start Num: 59
Candidate Starts for Zeenon_28:
(Start: 59 @8691 has 200 MA's), (98, 8805), (112, 8898), (133, 8994),

Gene: Zelda_56 Start: 48692, Stop: 48321, Start Num: 62
Candidate Starts for Zelda_56:
(14, 48893), (16, 48848), (18, 48818), (Start: 62 @48692 has 161 MA's), (Start: 64 @48689 has 134 MA's), (80, 48650), (97, 48569), (119, 48407), (120, 48404), (133, 48353),

Gene: ZenTime222_39 Start: 31045, Stop: 31446, Start Num: 42
Candidate Starts for ZenTime222_39:
(12, 30802), (Start: 42 @31045 has 5 MA's), (Start: 53 @31063 has 3 MA's), (101, 31219), (108, 31270), (112, 31294), (133, 31414), (134, 31417),

Gene: Zenon_56 Start: 42661, Stop: 43131, Start Num: 20
Candidate Starts for Zenon_56:
(Start: 20 @42661 has 6 MA's), (Start: 31 @42700 has 2 MA's), (Start: 47 @42730 has 20 MA's), (Start: 54 @42742 has 5 MA's), (Start: 60 @42754 has 1 MA's), (69, 42769), (74, 42775), (90, 42826), (107, 42940), (112, 42970), (131, 43060), (132, 43063), (133, 43078),

Gene: ZoeJ_39 Start: 31158, Stop: 30775, Start Num: 40
Candidate Starts for ZoeJ_39:
(39, 31161), (Start: 40 @31158 has 11 MA's), (78, 31098), (86, 31080), (94, 31035), (109, 30948), (112, 30927), (121, 30855), (133, 30810),

Gene: Zonia_57 Start: 48664, Stop: 48296, Start Num: 64
Candidate Starts for Zonia_57:
(8, 49027), (14, 48868), (16, 48823), (18, 48793), (Start: 62 @48667 has 161 MA's), (Start: 64 @48664 has 134 MA's), (80, 48625), (87, 48607), (95, 48553), (97, 48544), (119, 48382), (120, 48379), (133, 48328),

Gene: ZygoTaiga_26 Start: 8699, Stop: 9055, Start Num: 59
Candidate Starts for ZygoTaiga_26:
(Start: 59 @8699 has 200 MA's), (112, 8906), (133, 9002),