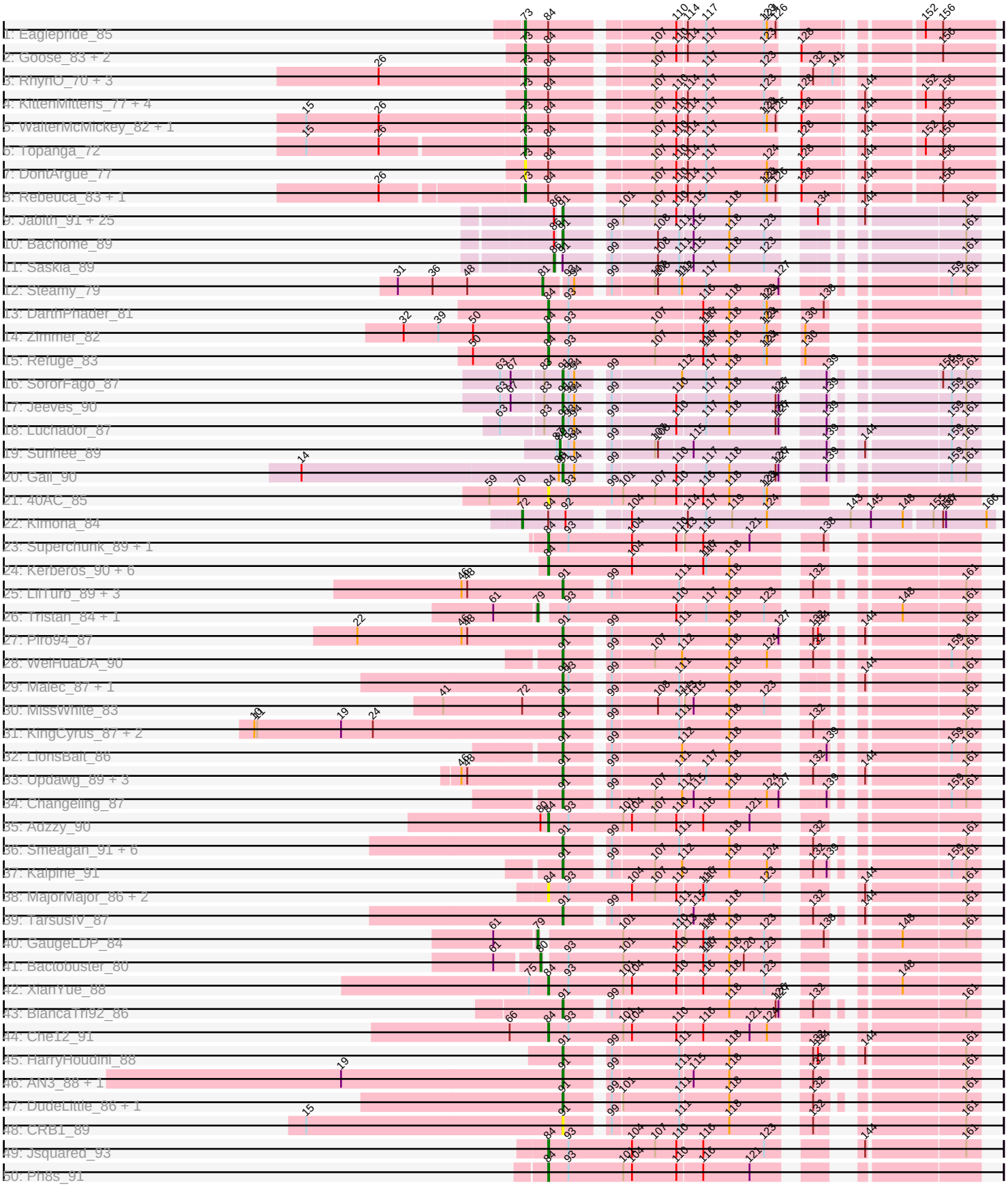
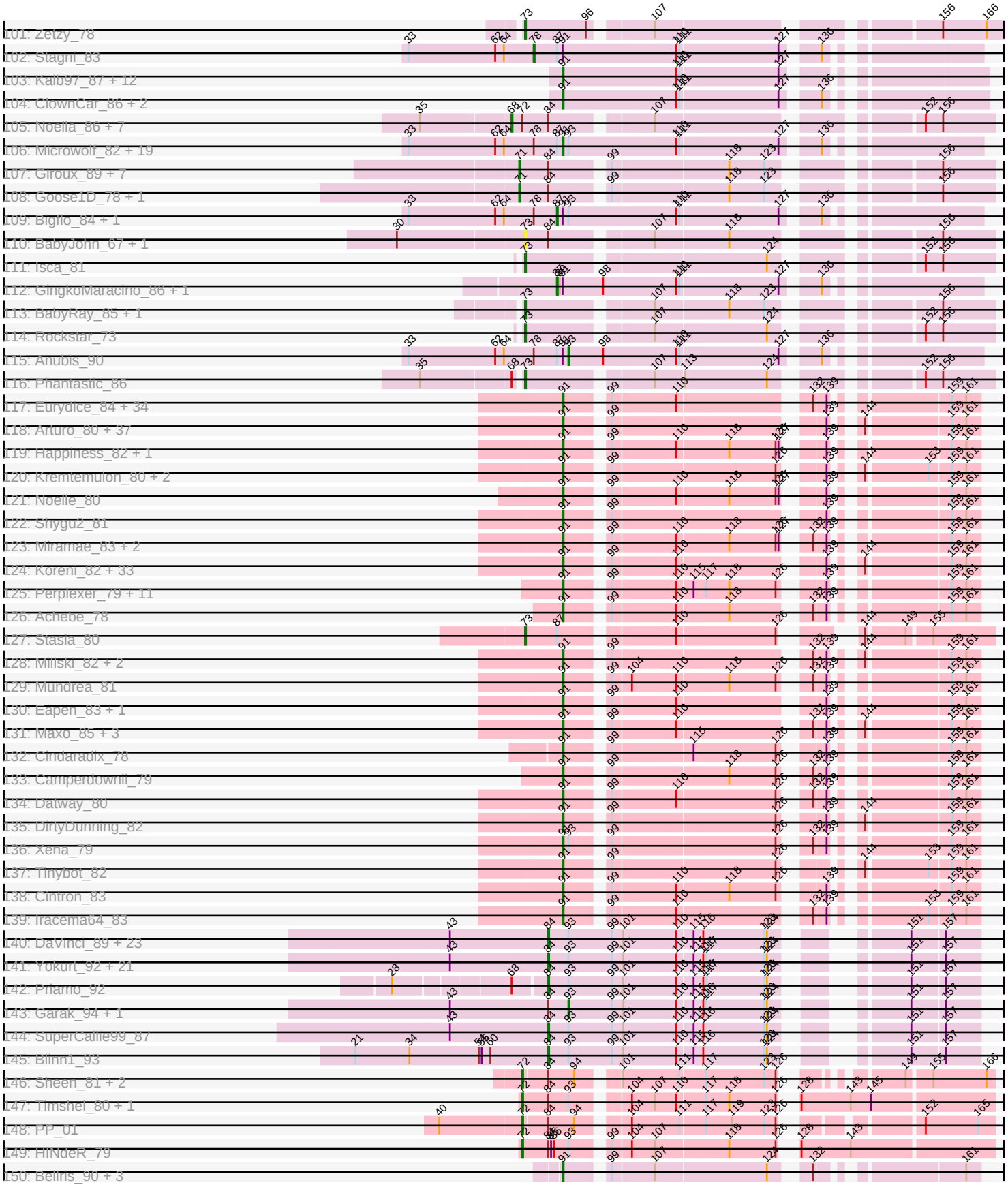
Pham 336209


1: Eaglepride_85
2: Goose_83 + 2
3: RhynO_70 + 3
4: KittenMittens_77 + 4
5: WalterMcMickey_82 + 1
6: Topanga_72
7: DontArgue_77
8: Rebeuca_83 + 1
9: Jabith_91 + 25
10: Bachome_89
11: Saskia_89
12: Steamy_79
13: DarthPhader_81
14: Zimmer_82
15: Refuge_83
16: SororFago_87
17: Jeeves_90
18: Luchador_87
19: Sunnee_89
20: Gail_90
21: 40AC_85
22: Kimona_84
23: Superchunk_89 + 1
24: Kerberos_90 + 6
25: LilTurb_89 + 3
26: Tristan_84 + 1
27: Piro94_87
28: WeiHuaDA_90
29: Malec_87 + 1
30: MissWhite_83
31: KingCyrus_87 + 2
32: LionsBait_86
33: Updawg_89 + 3
34: Changeling_87
35: Adzzy_90
36: Smeagan_91 + 6
37: Kalpine_91
38: MajorMajor_86 + 2
39: TarsusIV_87
40: GaugeLDP_84
41: Bactobuster_80
42: XianYue_88
43: BiancaTM92_86
44: Che12_91
45: HarryHoudini_88
46: AN3_88 + 1
47: DudeLittle_86 + 1
48: CRB1_89
49: Jsquared_93
50: Ph8s_91

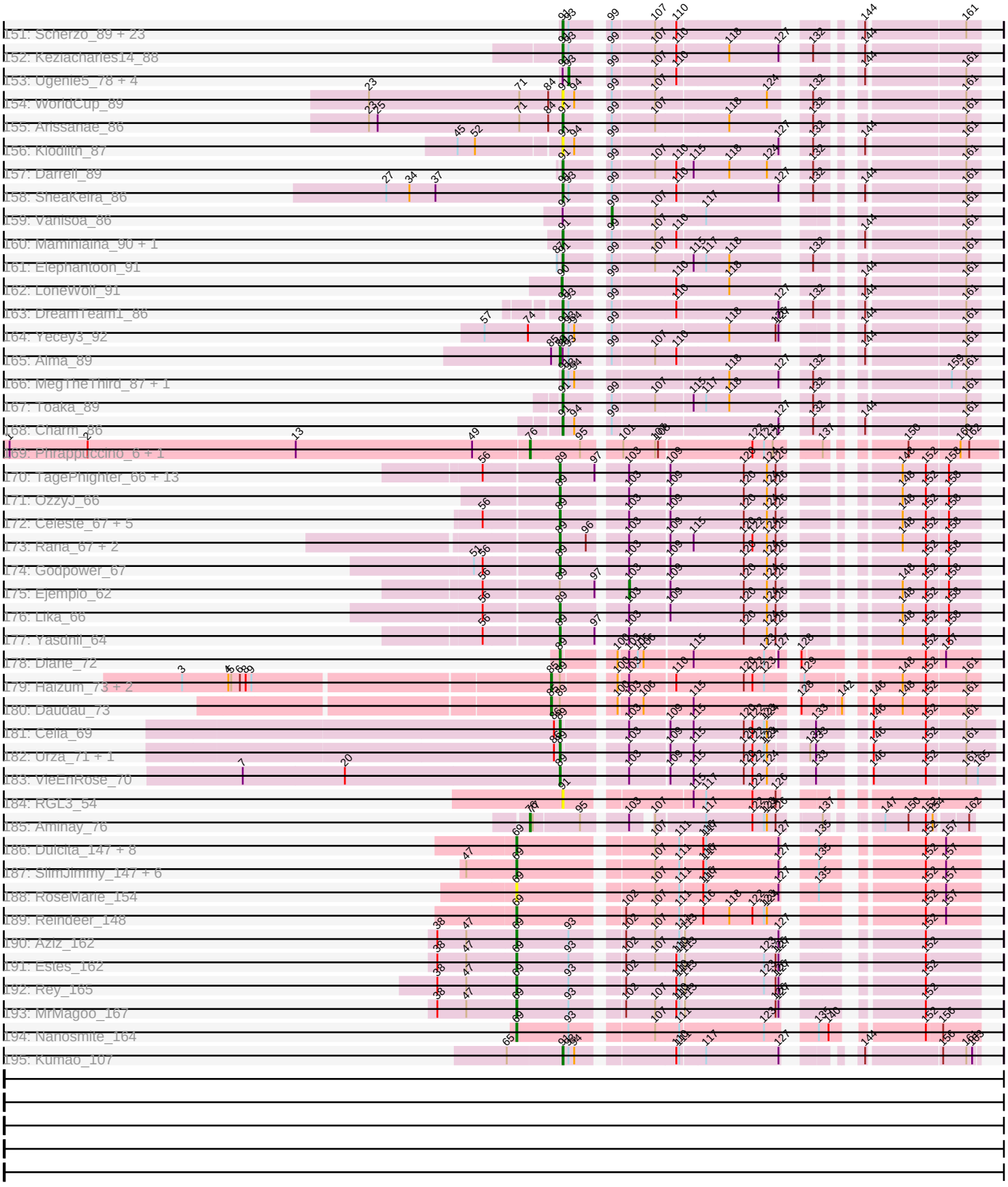
Pham 336209


51: Phaded_82
52: Drake55_89
53: Journey13_72
54: Landor_86
55: SnapTap_88 + 5
56: Loser_91
57: Benvolio_87 + 2
58: Retro23_88
59: L5_82
60: AnnaL29_90
61: Prudy_86
62: JoshKayV_91
63: NothingSpecial_83
64: Dalmatian_88
65: FiringLine_88 + 1
66: QueenB2_85
67: Sknot_88 + 5
68: Koduck_89
69: BengIVuitton_90
70: Dignity_90 + 1
71: Hellalump_85 + 1
72: Pukovnik_83
73: ForesterFrank_85 + 1
74: NicoleTera_87
75: TipsytheTRex_88
76: Odin_88
77: EZMoney23_85
78: First_0089
79: Trooper_88
80: DeerParkTS_84
81: Trixie_88
82: Serenity_92
83: NaSlaTalle_89
84: BabyBack_85
85: Iwokeuplikedis_92
86: HippoHollow_86
87: Delons_90 + 1
88: SwimSquare_91
89: Colin_88
90: RedRock_89
91: Acolyte_82
92: IronMan_85
93: Anthony_83
94: FatCactus_82
95: Chargerpower_88
96: JHC117_81 + 29
97: LugYA_89 + 6
98: Roimos_84 + 7
99: Daishi_85 + 3
100: EtoileNova_82 + 6

Pham 336209


I01: Zetzy_78
I02: Stagni_83
I03: Kalb97_87 + 12
I04: ClownCar_86 + 2
I05: Noella_86 + 7
I06: Microwolf_82 + 19
I07: Giroux_89 + 7
I08: Goose1D_78 + 1
I09: BigMo_84 + 1
I10: BabyJohn_67 + 1
I11: Isca_81
I12: GingkoMaracino_86 + 1
I13: BabyRay_85 + 1
I14: Rockstar_73
I15: Anubis_90
I16: Phantastic_86
I17: Eurydice_84 + 34
I18: Arturo_80 + 37
I19: Happiness_82 + 1
I20: Kremtemulon_80 + 2
I21: Noelle_80
I22: Shygu2_81
I23: Miramae_83 + 2
I24: Koreni_82 + 33
I25: Perplexer_79 + 11
I26: Achebe_78
I27: Stasia_80
I28: Milliski_82 + 2
I29: Mundrea_81
I30: Eapen_83 + 1
I31: Maxo_85 + 3
I32: Cindaradix_78
I33: Camperdownii_79
I34: Datway_80
I35: DirtyDunning_82
I36: Xena_79
I37: Tinybot_82
I38: Cintron_83
I39: Iracema64_83
I40: DaVinci_89 + 23
I41: Yokuri_92 + 21
I42: Phamo_92
I43: Garak_94 + 1
I44: SuperCallie99_87
I45: Blinn1_93
I46: Sheen_81 + 2
I47: Timshel_80 + 1
I48: PP_01
I49: HiNdeR_79
I50: Bellis_90 + 3

Pham 336209


151: Scherzo_89 + 23
152: Keziacharles14_88
153: Ogenie5_78 + 4
154: WorldCup_89
155: Anissanae_86
156: Kiodilth_87
157: Darrell_89
158: SheaKeira_86
159: Vanisoa_86
160: Mamiriaina_90 + 1
161: Elephantoon_91
162: LoneWolf_91
163: DreamTeam1_86
164: Yecey3_92
165: Alma_89
166: MegTheThird_87 + 1
167: Toaka_89
168: Charm_86
169: Phrappuccino_6 + 1
170: TagePhighter_66 + 13
171: OzzyJ_66
172: Celeste_67 + 5
173: Rana_67 + 2
174: Godpower_67
175: Ejemplo_62
176: Lika_66
177: Yasuhi_64
178: Diane_72
179: Haizum_73 + 2
180: Daudau_73
181: Celia_69
182: Orza_71 + 1
183: VieEnRose_70
184: RGL3_54
185: Aminay_76
186: Dulcita_147 + 8
187: SlimJimmy_147 + 6
188: RoseMarie_154
189: Reindeer_148
190: Aziz_162
191: Estes_162
192: Rey_165
193: MrMagoo_167
194: Nanosmite_164
195: Kumao_107

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 336209 Report

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

Pham number 336209 has 622 members, 43 are drafts.

Phages represented in each track:
• Track 1 : Eaglepride_85
• Track 2 : Goose_83, Chupacabra_79, OKCentral2016_81
• Track 3 : RhynO_70, DustyMartin_85, Shapes_85, Rowdy_85
• Track 4 : KittenMittens_77, Poompha_79, Severus_80, PeaceMeal1_79, Drake94_79
• Track 5 : WalterMcMickey_82, Twister_83
• Track 6 : Topanga_72
• Track 7 : DontArgue_77
• Track 8 : Rebeuca_83, Kristoff_80
• Track 9 : Jabith_91, Gilberta_89, Mabel_91, Aneem_92, Joselito_89, Kimba_88, Bud_84, Bowtie_87, Timothy_91, Orange_91, Salz_87, Munch_90, Et2Brutus_91, Ebony_90, Flaverint_92, Petersenfast_87, Snape_91, Fibonacci_91, TinyTimmy_89, Sham4_88, Lucivia_92, Mulciber_90, Wolpertinger_90, Insomnia_91, Hutc2_88, MaCh_91
• Track 10 : Bachome_89
• Track 11 : Saskia_89
• Track 12 : Steamy_79
• Track 13 : DarthPhader_81
• Track 14 : Zimmer_82
• Track 15 : Refuge_83
• Track 16 : SororFago_87
• Track 17 : Jeeves_90
• Track 18 : Luchador_87
• Track 19 : Sunhee_89
• Track 20 : Gail_90
• Track 21 : 40AC_85
• Track 22 : Kimona_84
• Track 23 : Superchunk_89, Caraxes_89
• Track 24 : Kerberos_90, Pomar16_90, Tomathan_90, Duplo_91, StarStuff_90, DBQu4n_90, Travvers_90
• Track 25 : LilTurb_89, AbbyPaige_90, Turbido_89, Whabigail7_87
• Track 26 : Tristan_84, Jaan_87
• Track 27 : Piro94_87
• Track 28 : WeiHuaDA_90
• Track 29 : Malec_87, Larenn_87
• Track 30 : MissWhite_83
• Track 31 : KingCyrus_87, ChipMunk_89, EvilGenius_88

• Track 32 : LionsBait_86
• Track 33 : Updawg_89, WideWale_89, Equemioh13_88, Gratitude_88
• Track 34 : Changeling_87
• Track 35 : Adzzy_90
• Track 36 : Smeagan_91, Jerm_90, Miko_85, BobSwaget_83, Rachaly_86, LadyBird_92, Lokk_84
• Track 37 : Kalpine_91
• Track 38 : MajorMajor_86, Bradman_92, Quokka_91
• Track 39 : TarsusIV_87
• Track 40 : GaugeLDP_84
• Track 41 : Bactobuster_80
• Track 42 : XianYue_88
• Track 43 : BiancaTri92_86
• Track 44 : Che12_91
• Track 45 : HarryHoudini_88
• Track 46 : AN3_88, VA6_88
• Track 47 : DudeLittle_86, Anselm_90
• Track 48 : CRB1_89
• Track 49 : Jsquared_93
• Track 50 : Ph8s_91
• Track 51 : Phaded_82
• Track 52 : Drake55_89
• Track 53 : Journey13_72
• Track 54 : Landor_86
• Track 55 : SnapTap_88, Crucio_88, SemperFi_88, Georgie2_90, SweetiePie_88, Power_88
• Track 56 : Loser_91
• Track 57 : Benvolio_87, Leviathan_90, Echild_92
• Track 58 : Retro23_88
• Track 59 : L5_82
• Track 60 : AnnaL29_90
• Track 61 : Prudy_86
• Track 62 : JoshKayV_91
• Track 63 : NothingSpecial_83
• Track 64 : Dalmatian_88
• Track 65 : FiringLine_88, QueenBeesly_88
• Track 66 : QueenB2_85
• Track 67 : Sknot_88, Baehexic_87, MiculUcigas_88, Terrific_89, Centaur_88, Flare16_88
• Track 68 : Koduck_89
• Track 69 : BengiVuitton_90
• Track 70 : Dignity_90, Agape74_90
• Track 71 : Heffalump_85, Fameo_87
• Track 72 : Pukovnik_83
• Track 73 : ForesterFrank_85, ArcherNM_84
• Track 74 : NicoleTera_87
• Track 75 : TipsytheTRex_88
• Track 76 : Odin_88
• Track 77 : EZMoney23_85
• Track 78 : First_0089
• Track 79 : Trooper_88
• Track 80 : DeerParkTS_84
• Track 81 : Trixie_88

• Track 82 : Serenity_92
• Track 83 : NaSiaTalie_89
• Track 84 : BabyBack_85
• Track 85 : Iwokeuplikedis_92
• Track 86 : HippoHollow_86
• Track 87 : Deloris_90, 20ES_90
• Track 88 : SwirlSquare_91
• Track 89 : Colin_88
• Track 90 : RedRock_89
• Track 91 : Acolyte_82
• Track 92 : IronMan_85
• Track 93 : Anthony_83
• Track 94 : FatCactus_82
• Track 95 : Chargerpower_88
• Track 96 : JHC117_81, Grum1_86, Hercules11_86, SoYo_83, Colbster_82, P28Green_86, Phoebe_87, Grif_84, HashRod_87, Beauxregard13_85, TinyPebbles_85, Tiffany_85, KADY_83, Sabinator_84, Croquant_83, Montavir_81, Misomonster_82, Dieselweasel_87, Rummer_85, LarryKay_86, Wooldri_88, Gwennie_86, Penny1_86, Soshari_88, Methuselah_79, EpicPhail_87, PotatoSplit_87, MarQuardt_86, Aglet_87, BuzzBuzz_80
• Track 97 : LugYA_89, Cullens_87, Marie_84, JenCasNa_87, Taurus_87, MoneyMay_86, Fernando_87
• Track 98 : Roimos_84, Zarafa_83, Kachowdy_87, Fred313_83, DropBear_86, HelDan_85, Heathen_85, Marchesa_85
• Track 99 : Daishi_85, Louie6_85, Bxz2_81, AgronaGT15_78
• Track 100 : EtoileNova_82, Todacoro_85, QuinnKiro_84, Veracruz_82, Panamaxus_81, Texage_83, Margo_85
• Track 101 : Zetzy_78
• Track 102 : Stagni_83
• Track 103 : Kalb97_87, Heliosoles_84, Groupthink_87, PhishRPhriends_83, HaveUMetTed_87, Pawn_85, Marius_87, Manu_86, Kalnoky_87, Phranny_79, Calvinny_86, JeppNRM_87, Reba_82
• Track 104 : ClownCar_86, OlanP_85, Gemma_84
• Track 105 : Noella_86, Hookmount_85, Caviar_74, Popcicle_85, ResDef_83, Norbert_81, Pocahontas_84, Lambert1_85
• Track 106 : Microwolf_82, GtownJaz_86, Mainiac_85, Sabia_84, PGHhamlin_88, Pembroke_86, Watson_85, BreSam8_86, Jobu08_82, Malinsilva_89, SoilDragon_86, Lowa_86, Spike509_86, DaHudson_85, Grub_84, MadMarie_84, LBerry_87, Ollie_86, Lilith_84, Snickers_86
• Track 107 : Giroux_89, Puppy_87, Bugatti_89, Pistachio_86, SaturnRing_87, Clammy_88, TNguyen7_87, BlueBird_88
• Track 108 : Goose1D_78, Scout_85
• Track 109 : Bigflo_84, StepMih_86
• Track 110 : BabyJohn_67, Chiqui_67
• Track 111 : Isca_81
• Track 112 : GingkoMaracino_86, Vix_82
• Track 113 : BabyRay_85, Cat_72
• Track 114 : Rockstar_73
• Track 115 : Anubis_90
• Track 116 : Phantastic_86
• Track 117 : Eurydice_84, Romney_82, NorthStar_80, ICleared_82, Wilbur_83, BangNhom_80, Phelipe_83, Junimo_79, Lemur_83, Jaykayelowell_80, Nebs_84, CentreCat_83, SheldonCooper_83, Cerulean_85, Relief_82, LochMonster_84,

Scamp_83, Kyee_83, Northrop_80, ChampagnePapi_86, Sparxx_84, LittleB_83, Spino_82, KekoraPapaka_80, Ruin_83, JetBlade_84, Sabertooth_83, PeterPeter_83, Ohfah_84, Citius_83, Abdiel_82, Rocksand_80, TroyPia_84, Lunsford_83, Skipitt_82
• Track 118 : Arturo_80, Burger_81, Albee_83, Taquarus_82, OKaNui_82, RockieBear_83, Alberto7_84, LHTSCC_85, Deano_80, Obama12_84, LittleGuy_83, Polymorphads_84, Florean_83, Medusa_82, Eros_83, Annyong_82, BubbleTrouble_82, Baby16_83, YoSam321_83, Commander_81, Roosevelt_81, Buckaroo_79, Phontbonne_83, TiroTheta9_82, KFPoly_82, BellusTerra_83, LappelDuVide_83, Blackmoor_82, Holli_82, Broseidon_83, TinaFeyge_81, Iceman_81, HamSlice_79, Dhanush_83, Morrow_85, Bartimeaus_83, Connomayer_83, Clarenza_82
• Track 119 : Happiness_82, Rosa24_79
• Track 120 : Kremtemulon_80, Phighter1804_83, Kratark_82
• Track 121 : Noelle_80
• Track 122 : Shygu2_81
• Track 123 : Miramae_83, Stink_83, AvatarAhPeg_83
• Track 124 : Koreni_82, Mazhar510_83, Chaph_83, Pumbaa_83, Melvin_85, Bombshell_83, SenorClean_84, Koan_80, Eris_82, Huxley_75, Funston_82, Caelakin_81, Lorenzo_83, Bruiser_82, Nyxis_82, SteMason_83, Eagle_82, JoongJeon_82, Palestino_82, Maverick_82, Houdini22_82, Ulysses_82, TygerBlood_83, Pipcraft_79, Avle17_83, Phacado_83, NotAPhaseMom_82, Peaches_81, Nemo27_82, Kingmustik0402_83, Sultana_83, Wander_83, Cocoaberry_83, Gadost_83
• Track 125 : Perplexer_79, Wile_78, Morpher26_79, Druantia_81, Katalie136_79, AbbysRanger_79, Backyardigan_77, Wizard007_79, Badger_78, Bumblebee11_78, Cici_79, PetiteSangsue_79
• Track 126 : Achebe_78
• Track 127 : Stasia_80
• Track 128 : Millski_82, Thanksgivukkah_82, MeeZee_82
• Track 129 : Mundrea_81
• Track 130 : Eapen_83, Shaka_81
• Track 131 : Maxo_85, Flux_84, Skadoosh_80, Kampy_82
• Track 132 : Cindaradix_78
• Track 133 : Camperdownii_79
• Track 134 : Datway_80
• Track 135 : DirtyDunning_82
• Track 136 : Xena_79
• Track 137 : Tinybot_82
• Track 138 : Cintron_83
• Track 139 : Iracema64_83
• Track 140 : DaVinci_89, McFly_91, Neeharika16_90, Jordennis_89, Cookiedough_91, Pmask_90, EricB_89, SuperAwesome_91, Chartreuse_90, Dorothea_91, DelvinSonDorr_86, BABullseye_84, Candra_92, Isiphiwo_87, Imbriano_92, Kipper29_91, VohminGhazi_91, JewelBug_83, Kazan_92, Hoot_86, Newrala_90, Polyphemus_84, GreedyLawyer_84, SmellyB_91
• Track 141 : Yokurt_92, Indra_96, Rifter_93, Wiks_92, Artemis2UCLA_92, Blue7_94, BennyP_93, Zaka_93, Hexamo_92, BlessJoy_93, Jeffabunny_81, Gruunaga_93, Koko_94, Lilbunny_89, Temprado_94, Hammer_93, Zulu_94, ToneTone_90, Helmet_95, Tucker_93, Gladiator_89, CloudWang3_93
• Track 142 : Priamo_92
• Track 143 : Garak_94, Roksolana_93
• Track 144 : SuperCallie99_87
• Track 145 : Blinn1_93

• Track 146 : Sheen_81, FlyCatcher_84, Toro_82
• Track 147 : Timshel_80, DroogsArmy_79
• Track 148 : PP_01
• Track 149 : HINdeR_79
• Track 150 : Bellris_90, Minispark_88, CogOmlette_88, Rahalelujah_90
• Track 151 : Scherzo_89, HortumSL17_92, Qobbit_89, Fayely_89, Jiawan_91, Tubs_91, Sachima_91, Spouty_89, Hanray_91, Holex_91, RyeScarlet_91, EdogawaKiddo_91, Aliter_84, Catalina_93, Eidsmoe_89, EmyBug_88, Ayanochan_88, Onglai_90, Conquerage_89, Phaeder_91, Priya_89, Lilleskat_91, Myxus_91, PackMan_86
• Track 152 : Keziacharles14_88
• Track 153 : Ugenie5_78, Pioneer_91, ExplosioNervosa_89, Beemo_91, Phonnegut_91
• Track 154 : WorldCup_89
• Track 155 : Arissanae_86
• Track 156 : Klodlith_87
• Track 157 : Darrell_89
• Track 158 : SheaKeira_86
• Track 159 : Vanisoa_86
• Track 160 : Maminiaina_90, BogosyJay_90
• Track 161 : Elephantoon_91
• Track 162 : LoneWolf_91
• Track 163 : DreamTeam1_86
• Track 164 : Yecey3_92
• Track 165 : Alma_89
• Track 166 : MegTheThird_87, Celestialunch_86
• Track 167 : Toaka_89
• Track 168 : Charm_86
• Track 169 : Phrappuccino_6, Settecandela_6
• Track 170 : TagePhighter_66, Chucky_64, Hippo_64, Asten_64, Dwayne_64, Maneekul_64, Emaanora_67, Werner_64, BarryBee_67, SarahRose_64, Whatever_64, Triste_65, TuanPN_62, Snorlax_64
• Track 171 : OzzyJ_66
• Track 172 : Celeste_67, Toma_67, Danzina_67, Zemlya_67, Goby_67, Brataylor_68
• Track 173 : Rana_67, Lorelei_66, Nabi_67
• Track 174 : Godpower_67
• Track 175 : Ejemplo_62
• Track 176 : Lika_66
• Track 177 : Yasdnil_64
• Track 178 : Diane_72
• Track 179 : Haizum_73, Tefunt_73, Nishikigoi_74
• Track 180 : Daudau_73
• Track 181 : Celia_69
• Track 182 : Urza_71, Itza_72
• Track 183 : VieEnRose_70
• Track 184 : RGL3_54
• Track 185 : Aminay_76
• Track 186 : Dulcita_147, LilhomieP_146, Diminimus_147, Glaske16_149, PegLeg_150, Bricole_152, Skinny_153, Izel_146, Bongo_144
• Track 187 : SlimJimmy_147, KleverKiS_152, TpudiCK_150, FreakyGoo_149, IPhane7_147, TyDawg_143, Auspice_150
• Track 188 : RoseMarie_154
• Track 189 : Reindeer_148

• Track 190 : Aziz_162
• Track 191 : Estes_162
• Track 192 : Rey_165
• Track 193 : MrMagoo_167
• Track 194 : Nanosmite_164
• Track 195 : Kumao_107

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

The start number called the most often in the published annotations is 91, it was called in 360 of the 579 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• 20ES_90, AN3_88, AbbyPaige_90, AbbysRanger_79, Abdiel_82, Achebe_78, Agape74_90, Aglet_87, AgronaGT15_78, Albee_83, Alberto7_84, Aliter_84, Aneem_92, Annyong_82, Anselm_90, Anthony_83, ArcherNM_84, Arissanae_86, Arturo_80, AvatarAhPeg_83, Avle17_83, Ayanochan_88, Baby16_83, Bachome_89, Backyardigan_77, Badger_78, Baehexic_87, BangNhom_80, Bartimeaus_83, Beauxregard13_85, Bellris_90, BellusTerra_83, BengiVuitton_90, Benvolio_87, BiancaTri92_86, Blackmoor_82, BobSwaget_83, BogosyJay_90, Bombshell_83, Bowtie_87, BreSam8_86, Broseidon_83, Bruiser_82, BubbleTrouble_82, Buckaroo_79, Bud_84, Bumblebee11_78, Burger_81, BuzzBuzz_80, Bxz2_81, CRB1_89, Caelakin_81, Calvinny_86, Camperdownii_79, Catalina_93, Celestialunch_86, Centaur_88, CentreCat_83, Cerulean_85, ChampagnePapi_86, Changeling_87, Chaph_83, Chargerpower_88, Charm_86, ChipMunk_89, Cici_79, Cindaradix_78, Cintron_83, Citius_83, Clarenza_82, ClownCar_86, Cocoaberry_83, CogOmlette_88, Colbster_82, Colin_88, Commander_81, Connomayer_83, Conquerage_89, Croquant_83, Crucio_88, Cullens_87, DaHudson_85, Daishi_85, Dalmatian_88, Darrell_89, Datway_80, Deano_80, DeerParkTS_84, Deloris_90, Dhanush_83, Dieselweasel_87, Dignity_90, DirtyDunning_82, Drake55_89, DreamTeam1_86, Druantia_81, DudeLittle_86, EZMoney23_85, Eagle_82, Eapen_83, Ebony_90, Echild_92, EdogawaKiddo_91, Eidsmoe_89, Elephantoon_91, EmyBug_88, EpicPhail_87, Equemioh13_88, Eris_82, Eros_83, Et2Brutus_91, Eurydice_84, EvilGenius_88, Fameo_87, FatCactus_82, Fayely_89, Fernando_87, Fibonacci_91, FiringLine_88, First_0089, Flare16_88, Flaverint_92, Florean_83, Flux_84, ForesterFrank_85, Funston_82, Gadost_83, Gail_90, Gemma_84, Georgie2_90, Gilberta_89, Gratitude_88, Grif_84, Groupthink_87, Grub_84, Grum1_86, GtownJaz_86, Gwennie_86, HamSlice_79, Hanray_91, Happiness_82, HarryHoudini_88, HashRod_87, HaveUMetTed_87, Heffalump_85, Heliosoles_84, Hercules11_86, HippoHollow_86, Holex_91, Holli_82, HortumSL17_92, Houdini22_82, Hutc2_88, Huxley_75, ICleared_82, Iceman_81, Insomnia_91, Iracema64_83, JHC117_81, Jabith_91, Jaykayelowell_80, Jeeves_90, JenCasNa_87, JeppNRM_87, Jerm_90, JetBlade_84, Jiawan_91, Jobu08_82, JoongJeon_82, Joselito_89, JoshKayV_91, Junimo_79, KADY_83, KFPoly_82, Kalb97_87, Kalnoky_87, Kalpine_91, Kampy_82, Katalie136_79, KekoraPapaka_80, Keziacharles14_88, Kimba_88, KingCyrus_87, Kingmustik0402_83, Klodlith_87, Koan_80, Koreni_82, Kratark_82, Kremtemulon_80, Kumao_107, Kyee_83, LBerry_87, LHTSCC_85, LadyBird_92, LappelDuVide_83, Larenn_87, LarryKay_86, Lemur_83, Leviathan_90, LilTurb_89, Lilith_84, Lilleskat_91, LionsBait_86, LittleB_83, LittleGuy_83, LochMonster_84, Lokk_84, Lorenzo_83, Louie6_85,

Lowa_86, Luchador_87, Lucivia_92, LugYA_89, Lunsford_83, MaCh_91, Mabel_91, MadMarie_84, Mainiac_85, Malec_87, Malinsilva_89, Maminiaina_90, Manu_86, MarQuardt_86, Marie_84, Marius_87, Maverick_82, Maxo_85, Mazhar510_83, Medusa_82, MeeZee_82, MegTheThird_87, Melvin_85, Methuselah_79, Microwolf_82, MiculUcigas_88, Miko_85, Millski_82, Minispark_88, Miramae_83, Misomonster_82, MissWhite_83, MoneyMay_86, Montavir_81, Morpher26_79, Morrow_85, Mulciber_90, Munch_90, Mundrea_81, Myxus_91, NaSiaTalie_89, Nebs_84, Nemo27_82, NicoleTera_87, Noelle_80, NorthStar_80, Northrop_80, NotAPhaseMom_82, Nyxis_82, OKaNui_82, Obama12_84, Ohfah_84, OlanP_85, Ollie_86, Onglai_90, Orange_91, P28Green_86, PGHhamlin_88, PackMan_86, Palestino_82, Pawn_85, Peaches_81, Pembroke_86, Penny1_86, Perplexer_79, PeterPeter_83, Petersenfast_87, PetiteSangsue_79, Phacado_83, Phaeder_91, Phelipe_83, Phighter1804_83, PhishRPhriends_83, Phoebe_87, Phontbonne_83, Phranny_79, Pipcraft_79, Piro94_87, Polymorphads_84, PotatoSplit_87, Power_88, Priya_89, Prudy_86, Pumbaa_83, Qobbit_89, QueenB2_85, QueenBeesly_88, RGL3_54, Rachaly_86, Rahalelujah_90, Reba_82, Relief_82, Retro23_88, RockieBear_83, Rocksand_80, Romney_82, Roosevelt_81, Rosa24_79, Ruin_83, Rummer_85, RyeScarlet_91, Sabertooth_83, Sabia_84, Sabinator_84, Sachima_91, Salz_87, Scamp_83, Scherzo_89, SemperFi_88, SenorClean_84, Shaka_81, Sham4_88, SheaKeira_86, SheldonCooper_83, Shygu2_81, Skadoosh_80, Skipitt_82, Sknot_88, Smeagan_91, SnapTap_88, Snape_91, Snickers_86, SoYo_83, SoilDragon_86, SororFago_87, Soshari_88, Sparxx_84, Spike509_86, Spino_82, Spouty_89, SteMason_83, Stink_83, Sultana_83, SweetiePie_88, Taquarus_82, TarsusIV_87, Taurus_87, Terrific_89, Thanksgivukkah_82, Tiffany_85, Timothy_91, TinaFeyge_81, TinyPebbles_85, TinyTimmy_89, Tinybot_82, TiroTheta9_82, Toaka_89, Trixie_88, TroyPia_84, Tubs_91, Turbido_89, TygerBlood_83, Ulysses_82, Updawg_89, VA6_88, Wander_83, Watson_85, WeiHuaDA_90, Whabigail7_87, WideWale_89, Wilbur_83, Wile_78, Wizard007_79, Wolpertinger_90, Wooldri_88, WorldCup_89, Xena_79, Yecey3_92, YoSam321_83,

Genes that have the "Most Annotated" start but do not call it:
• Alma_89, Anubis_90, Beemo_91, Bigflo_84, ExplosioNervosa_89, GingkoMaracino_86, Phonnegut_91, Pioneer_91, Saskia_89, Stagni_83, StepMih_86, Ugenie5_78, Vanisoa_86, Vix_82,

Genes that do not have the "Most Annotated" start:
• 40AC_85, Acolyte_82, Adzzy_90, Aminay_76, AnnaL29_90, Artemis2UCLA_92, Asten_64, Auspice_150, Aziz_162, BABullseye_84, BabyBack_85, BabyJohn_67, BabyRay_85, Bactobuster_80, BarryBee_67, BennyP_93, BlessJoy_93, Blinn1_93, Blue7_94, BlueBird_88, Bongo_144, Bradman_92, Brataylor_68, Bricole_152, Bugatti_89, Candra_92, Caraxes_89, Cat_72, Caviar_74, Celeste_67, Celia_69, Chartreuse_90, Che12_91, Chiqui_67, Chucky_64, Chupacabra_79, Clammy_88, CloudWang3_93, Cookiedough_91, DBQu4n_90, DaVinci_89, Danzina_67, DarthPhader_81, Daudau_73, DelvinSonDorr_86, Diane_72, Diminimus_147, DontArgue_77, Dorothea_91, Drake94_79, DroogsArmy_79, DropBear_86, Dulcita_147, Duplo_91, DustyMartin_85, Dwayne_64, Eaglepride_85, Ejemplo_62, Emaanora_67, EricB_89, Estes_162, EtoileNova_82, FlyCatcher_84, FreakyGoo_149, Fred313_83, Garak_94, GaugeLDP_84, Giroux_89, Gladiator_89, Glaske16_149, Goby_67, Godpower_67, Goose1D_78, Goose_83, GreedyLawyer_84, Gruunaga_93, HINdeR_79, Haizum_73, Hammer_93, Heathen_85, HelDan_85, Helmet_95, Hexamo_92, Hippo_64, Hookmount_85, Hoot_86, IPhane7_147, Imbriano_92, Indra_96, IronMan_85, Isca_81, Isiphiwo_87, Itza_72, Iwokeuplikedis_92, Izel_146, Jaan_87, Jeffabunny_81, JewelBug_83,

Jordennis_89, Journey13_72, Jsquared_93, Kachowdy_87, Kazan_92, Kerberos_90, Kimona_84, Kipper29_91, KittenMittens_77, KleverKiS_152, Koduck_89, Koko_94, Kristoff_80, L5_82, Lambert1_85, Landor_86, Lika_66, Lilbunny_89, LilhomieP_146, LoneWolf_91, Lorelei_66, Loser_91, MajorMajor_86, Maneekul_64, Marchesa_85, Margo_85, McFly_91, MrMagoo_167, Nabi_67, Nanosmite_164, Neeharika16_90, Newrala_90, Nishikigoi_74, Noella_86, Norbert_81, NothingSpecial_83, OKCentral2016_81, Odin_88, OzzyJ_66, PP_01, Panamaxus_81, PeaceMeal1_79, PegLeg_150, Ph8s_91, Phaded_82, Phantastic_86, Phrappuccino_6, Pistachio_86, Pmask_90, Pocahontas_84, Polyphemus_84, Pomar16_90, Poompha_79, Popcicle_85, Priamo_92, Pukovnik_83, Puppy_87, QuinnKiro_84, Quokka_91, Rana_67, Rebeuca_83, RedRock_89, Refuge_83, Reindeer_148, ResDef_83, Rey_165, RhynO_70, Rifter_93, Rockstar_73, Roimos_84, Roksolana_93, RoseMarie_154, Rowdy_85, SarahRose_64, SaturnRing_87, Scout_85, Serenity_92, Settecandela_6, Severus_80, Shapes_85, Sheen_81, Skinny_153, SlimJimmy_147, SmellyB_91, Snorlax_64, StarStuff_90, Stasia_80, Steamy_79, Sunhee_89, SuperAwesome_91, SuperCallie99_87, Superchunk_89, SwirlSquare_91, TNguyen7_87, TagePhighter_66, Tefunt_73, Temprado_94, Texage_83, Timshel_80, TipsytheTRex_88, Todacoro_85, Toma_67, Tomathan_90, ToneTone_90, Topanga_72, Toro_82, TpudiCK_150, Travvers_90, Tristan_84, Triste_65, Trooper_88, TuanPN_62, Tucker_93, Twister_83, TyDawg_143, Urza_71, Veracruz_82, VieEnRose_70, VohminGhazi_91, WalterMcMickey_82, Werner_64, Whatever_64, Wiks_92, XianYue_88, Yasdnil_64, Yokurt_92, Zaka_93, Zarafa_83, Zemlya_67, Zetzy_78, Zimmer_82, Zulu_94,

Summary by start number:

Start 44:
• Found in 3 of 622 (0.5%) of genes in pham
• Manual Annotations of this start: 3 of 579
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AnnaL29_90 (A2), Loser_91 (A2), RedRock_89 (A2),

Start 61:
• Found in 9 of 622 (1.4%) of genes in pham
• Manual Annotations of this start: 1 of 579
• Called 11.1% of time when present
• Phage (with cluster) where this start called: Phaded_82 (A2),

Start 68:
• Found in 17 of 622 (2.7%) of genes in pham
• Manual Annotations of this start: 8 of 579
• Called 47.1% of time when present
• Phage (with cluster) where this start called: Caviar_74 (A3), Hookmount_85 (A3), Lambert1_85 (A3), Noella_86 (A3), Norbert_81 (A3), Pocahontas_84 (A3), Popcicle_85 (A3), ResDef_83 (A3),

Start 69:
• Found in 23 of 622 (3.7%) of genes in pham
• Manual Annotations of this start: 20 of 579
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Auspice_150 (M1), Aziz_162 (M2), Bongo_144 (M1), Bricole_152 (M1), Diminimus_147 (M1), Dulcita_147 (M1),

Estes_162 (M2), FreakyGoo_149 (M1), Glaske16_149 (M1), IPhane7_147 (M1), Izel_146 (M1), KleverKiS_152 (M1), LilhomieP_146 (M1), MrMagoo_167 (M2), Nanosmite_164 (M3), PegLeg_150 (M1), Reindeer_148 (M1), Rey_165 (M2), RoseMarie_154 (M1), Skinny_153 (M1), SlimJimmy_147 (M1), TpudiCK_150 (M1), TyDawg_143 (M1),

Start 71:
• Found in 21 of 622 (3.4%) of genes in pham
• Manual Annotations of this start: 13 of 579
• Called 85.7% of time when present
• Phage (with cluster) where this start called: BlueBird_88 (A3), Bugatti_89 (A3), Clammy_88 (A3), DropBear_86 (A3), Fred313_83 (A3), Giroux_89 (A3), Goose1D_78 (A3), Heathen_85 (A3), HelDan_85 (A3), Kachowdy_87 (A3), Marchesa_85 (A3), Pistachio_86 (A3), Puppy_87 (A3), Roimos_84 (A3), SaturnRing_87 (A3), Scout_85 (A3), TNguyen7_87 (A3), Zarafa_83 (A3),

Start 72:
• Found in 24 of 622 (3.9%) of genes in pham
• Manual Annotations of this start: 12 of 579
• Called 62.5% of time when present
• Phage (with cluster) where this start called: DroogsArmy_79 (A7), EtoileNova_82 (A3), FlyCatcher_84 (A7), HINdeR_79 (A7), Kimona_84 (A19), Margo_85 (A3), PP_01 (A7), Panamaxus_81 (A3), QuinnKiro_84 (A3), Sheen_81 (A7), Texage_83 (A3), Timshel_80 (A7), Todacoro_85 (A3), Toro_82 (A7), Veracruz_82 (A3),

Start 73:
• Found in 28 of 622 (4.5%) of genes in pham
• Manual Annotations of this start: 21 of 579
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BabyJohn_67 (A3), BabyRay_85 (A3), Cat_72 (A3), Chiqui_67 (A3), Chupacabra_79 (A10), DontArgue_77 (A10), Drake94_79 (A10), DustyMartin_85 (A10), Eaglepride_85 (A10), Goose_83 (A10), Isca_81 (A3), KittenMittens_77 (A10), Kristoff_80 (A10), OKCentral2016_81 (A10), PeaceMeal1_79 (A10), Phantastic_86 (A3), Poompha_79 (A10), Rebeuca_83 (A10), RhynO_70 (A10), Rockstar_73 (A3), Rowdy_85 (A10), Severus_80 (A10), Shapes_85 (A10), Stasia_80 (A4), Topanga_72 (A10), Twister_83 (A10), WalterMcMickey_82 (A10), Zetzy_78 (A3),

Start 76:
• Found in 3 of 622 (0.5%) of genes in pham
• Manual Annotations of this start: 3 of 579
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aminay_76 (K7), Phrappuccino_6 (AA), Settecandela_6 (AA),

Start 78:
• Found in 24 of 622 (3.9%) of genes in pham
• Manual Annotations of this start: 1 of 579
• Called 4.2% of time when present
• Phage (with cluster) where this start called: Stagni_83 (A3),

Start 79:
• Found in 8 of 622 (1.3%) of genes in pham

• Manual Annotations of this start: 7 of 579
• Called 87.5% of time when present
• Phage (with cluster) where this start called: BabyBack_85 (A2), GaugeLDP_84 (A2), Iwokeuplikedis_92 (A2), Jaan_87 (A2), Journey13_72 (A2), Pukovnik_83 (A2), Tristan_84 (A2),

Start 80:
• Found in 6 of 622 (1.0%) of genes in pham
• Manual Annotations of this start: 2 of 579
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Bactobuster_80 (A2), Landor_86 (A2),

Start 81:
• Found in 1 of 622 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 579
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Steamy_79 (A12),

Start 82:
• Found in 2 of 622 (0.3%) of genes in pham
• Manual Annotations of this start: 2 of 579
• Called 100.0% of time when present
• Phage (with cluster) where this start called: L5_82 (A2), SwirlSquare_91 (A2),

Start 84:
• Found in 143 of 622 (23.0%) of genes in pham
• Manual Annotations of this start: 71 of 579
• Called 53.8% of time when present
• Phage (with cluster) where this start called: 40AC_85 (A17), Acolyte_82 (A2), Adzzy_90 (A2), Artemis2UCLA_92 (A6), BABullseye_84 (A6), BennyP_93 (A6), BlessJoy_93 (A6), Blinn1_93 (A6), Blue7_94 (A6), Bradman_92 (A2), Candra_92 (A6), Caraxes_89 (A2), Chartreuse_90 (A6), Che12_91 (A2), CloudWang3_93 (A6), Cookiedough_91 (A6), DBQu4n_90 (A2), DaVinci_89 (A6), DarthPhader_81 (A12), DelvinSonDorr_86 (A6), Dorothea_91 (A6), Duplo_91 (A2), EricB_89 (A6), Gladiator_89 (A6), GreedyLawyer_84 (A6), Gruunaga_93 (A6), Hammer_93 (A6), Helmet_95 (A6), Hexamo_92 (A6), Hoot_86 (A6), Imbriano_92 (A6), Indra_96 (A6), Isiphiwo_87 (A6), Jeffabunny_81 (A6), JewelBug_83 (A6), Jordennis_89 (A6), Jsquared_93 (A2), Kazan_92 (A6), Kerberos_90 (A2), Kipper29_91 (A6), Koduck_89 (A2), Koko_94 (A6), Lilbunny_89 (A6), MajorMajor_86 (A2), McFly_91 (A6), Neeharika16_90 (A6), Newrala_90 (A6), NothingSpecial_83 (A2), Odin_88 (A2), Ph8s_91 (A2), Pmask_90 (A6), Polyphemus_84 (A6), Pomar16_90 (A2), Priamo_92 (A6), Quokka_91 (A2), Refuge_83 (A12), Rifter_93 (A6), Serenity_92 (A2), SmellyB_91 (A6), StarStuff_90 (A2), SuperAwesome_91 (A6), SuperCallie99_87 (A6), Superchunk_89 (A2), Temprado_94 (A6), TipsytheTRex_88 (A2), Tomathan_90 (A2), ToneTone_90 (A6), Travvers_90 (A2), Trooper_88 (A2), Tucker_93 (A6), VohminGhazi_91 (A6), Wiks_92 (A6), XianYue_88 (A2), Yokurt_92 (A6), Zaka_93 (A6), Zimmer_82 (A12), Zulu_94 (A6),

Start 85:
• Found in 6 of 622 (1.0%) of genes in pham
• Manual Annotations of this start: 4 of 579
• Called 66.7% of time when present

• Phage (with cluster) where this start called: Daudau_73 (BD2), Haizum_73 (BD2), Nishikigoi_74 (BD2), Tefunt_73 (BD2),

Start 86:
• Found in 32 of 622 (5.1%) of genes in pham
• Manual Annotations of this start: 1 of 579
• Called 3.1% of time when present
• Phage (with cluster) where this start called: Saskia_89 (A11),

Start 87:
• Found in 70 of 622 (11.3%) of genes in pham
• Manual Annotations of this start: 4 of 579
• Called 5.7% of time when present
• Phage (with cluster) where this start called: Bigflo_84 (A3), GingkoMaracino_86 (A3), StepMih_86 (A3), Vix_82 (A3),

Start 89:
• Found in 75 of 622 (12.1%) of genes in pham
• Manual Annotations of this start: 34 of 579
• Called 45.3% of time when present
• Phage (with cluster) where this start called: Alma_89 (A9), Asten_64 (BD1), BarryBee_67 (BD1), Brataylor_68 (BD1), Celeste_67 (BD1), Celia_69 (BD6), Chucky_64 (BD1), Danzina_67 (BD1), Diane_72 (BD2), Dwayne_64 (BD1), Emaanora_67 (BD1), Goby_67 (BD1), Godpower_67 (BD1), Hippo_64 (BD1), Itza_72 (BD6), Lika_66 (BD1), Lorelei_66 (BD1), Maneekul_64 (BD1), Nabi_67 (BD1), OzzyJ_66 (BD1), Rana_67 (BD1), SarahRose_64 (BD1), Snorlax_64 (BD1), Sunhee_89 (A14), TagePhighter_66 (BD1), Toma_67 (BD1), Triste_65 (BD1), TuanPN_62 (BD1), Urza_71 (BD6), VieEnRose_70 (BD6), Werner_64 (BD1), Whatever_64 (BD1), Yasdnil_64 (BD1), Zemlya_67 (BD1),

Start 90:
• Found in 1 of 622 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 579
• Called 100.0% of time when present
• Phage (with cluster) where this start called: LoneWolf_91 (A9),

Start 91:
• Found in 392 of 622 (63.0%) of genes in pham
• Manual Annotations of this start: 360 of 579
• Called 96.4% of time when present
• Phage (with cluster) where this start called: 20ES_90 (A2), AN3_88 (A2), AbbyPaige_90 (A2), AbbysRanger_79 (A4), Abdiel_82 (A4), Achebe_78 (A4), Agape74_90 (A2), Aglet_87 (A3), AgronaGT15_78 (A3), Albee_83 (A4), Alberto7_84 (A4), Aliter_84 (A9), Aneem_92 (A11), Annyong_82 (A4), Anselm_90 (A2), Anthony_83 (A20), ArcherNM_84 (A2), Arissanae_86 (A9), Arturo_80 (A4), AvatarAhPeg_83 (A4), Avle17_83 (A4), Ayanochan_88 (A9), Baby16_83 (A4), Bachome_89 (A11), Backyardigan_77 (A4), Badger_78 (A4), Baehexic_87 (A2), BangNhom_80 (A4), Bartimeaus_83 (A4), Beauxregard13_85 (A3), Bellris_90 (A9), BellusTerra_83 (A4), BengiVuitton_90 (A2), Benvolio_87 (A2), BiancaTri92_86 (A2), Blackmoor_82 (A4), BobSwaget_83 (A2), BogosyJay_90 (A9), Bombshell_83 (A4), Bowtie_87 (A11), BreSam8_86 (A3), Broseidon_83 (A4), Bruiser_82 (A4), BubbleTrouble_82 (A4), Buckaroo_79 (A4), Bud_84 (A11), Bumblebee11_78 (A4), Burger_81 (A4), BuzzBuzz_80 (A3), Bxz2_81 (A3), CRB1_89 (A2), Caelakin_81 (A4),

Calvinny_86 (A3), Camperdownii_79 (A4), Catalina_93 (A9), Celestialunch_86 (A9), Centaur_88 (A2), CentreCat_83 (A4), Cerulean_85 (A4), ChampagnePapi_86 (A4), Changeling_87 (A2), Chaph_83 (A4), Chargerpower_88 (A22), Charm_86 (A9), ChipMunk_89 (A2), Cici_79 (A4), Cindaradix_78 (A4), Cintron_83 (A4), Citius_83 (A4), Clarenza_82 (A4), ClownCar_86 (A3), Cocoaberry_83 (A4), CogOmlette_88 (A9), Colbster_82 (A3), Colin_88 (A2), Commander_81 (A4), Connomayer_83 (A4), Conquerage_89 (A9), Croquant_83 (A3), Crucio_88 (A2), Cullens_87 (A3), DaHudson_85 (A3), Daishi_85 (A3), Dalmatian_88 (A2), Darrell_89 (A9), Datway_80 (A4), Deano_80 (A4), DeerParkTS_84 (A2), Deloris_90 (A2), Dhanush_83 (A4), Dieselweasel_87 (A3), Dignity_90 (A2), DirtyDunning_82 (A4), Drake55_89 (A2), DreamTeam1_86 (A9), Druantia_81 (A4), DudeLittle_86 (A2), EZMoney23_85 (A2), Eagle_82 (A4), Eapen_83 (A4), Ebony_90 (A11), Echild_92 (A2), EdogawaKiddo_91 (A9), Eidsmoe_89 (A9), Elephantoon_91 (A9), EmyBug_88 (A9), EpicPhail_87 (A3), Equemioh13_88 (A2), Eris_82 (A4), Eros_83 (A4), Et2Brutus_91 (A11), Eurydice_84 (A4), EvilGenius_88 (A2), Fameo_87 (A2), FatCactus_82 (A20), Fayely_89 (A9), Fernando_87 (A3), Fibonacci_91 (A11), FiringLine_88 (A2), First_0089 (A2), Flare16_88 (A2), Flaverint_92 (A11), Florean_83 (A4), Flux_84 (A4), ForesterFrank_85 (A2), Funston_82 (A4), Gadost_83 (A4), Gail_90 (A14), Gemma_84 (A3), Georgie2_90 (A2), Gilberta_89 (A11), Gratitude_88 (A2), Grif_84 (A3), Groupthink_87 (A3), Grub_84 (A3), Grum1_86 (A3), GtownJaz_86 (A3), Gwennie_86 (A3), HamSlice_79 (A4), Hanray_91 (A9), Happiness_82 (A4), HarryHoudini_88 (A2), HashRod_87 (A3), HaveUMetTed_87 (A3), Heffalump_85 (A2), Heliosoles_84 (A3), Hercules11_86 (A3), HippoHollow_86 (A2), Holex_91 (A9), Holli_82 (A4), HortumSL17_92 (A9), Houdini22_82 (A4), Hutc2_88 (A11), Huxley_75 (A4), ICleared_82 (A4), Iceman_81 (A4), Insomnia_91 (A11), Iracema64_83 (A4), JHC117_81 (A3), Jabith_91 (A11), Jaykayelowell_80 (A4), Jeeves_90 (A14), JenCasNa_87 (A3), JeppNRM_87 (A3), Jerm_90 (A2), JetBlade_84 (A4), Jiawan_91 (A9), Jobu08_82 (A3), JoongJeon_82 (A4), Joselito_89 (A11), JoshKayV_91 (A2), Junimo_79 (A4), KADY_83 (A3), KFPoly_82 (A4), Kalb97_87 (A3), Kalnoky_87 (A3), Kalpine_91 (A2), Kampy_82 (A4), Katalie136_79 (A4), KekoraPapaka_80 (A4), Keziacharles14_88 (A9), Kimba_88 (A11), KingCyrus_87 (A2), Kingmustik0402_83 (A4), Klodlith_87 (A9), Koan_80 (A4), Koreni_82 (A4), Kratark_82 (A4), Kremtemulon_80 (A4), Kumao_107 (singleton), Kyee_83 (A4), LBerry_87 (A3), LHTSCC_85 (A4), LadyBird_92 (A2), LappelDuVide_83 (A4), Larenn_87 (A2), LarryKay_86 (A3), Lemur_83 (A4), Leviathan_90 (A2), LilTurb_89 (A2), Lilith_84 (A3), Lilleskat_91 (A9), LionsBait_86 (A2), LittleB_83 (A4), LittleGuy_83 (A4), LochMonster_84 (A4), Lokk_84 (A2), Lorenzo_83 (A4), Louie6_85 (A3), Lowa_86 (A3), Luchador_87 (A14), Lucivia_92 (A11), LugYA_89 (A3), Lunsford_83 (A4), MaCh_91 (A11), Mabel_91 (A11), MadMarie_84 (A3), Mainiac_85 (A3), Malec_87 (A2), Malinsilva_89 (A3), Maminiaina_90 (A9), Manu_86 (A3), MarQuardt_86 (A3), Marie_84 (A3), Marius_87 (A3), Maverick_82 (A4), Maxo_85 (A4), Mazhar510_83 (A4), Medusa_82 (A4), MeeZee_82 (A4), MegTheThird_87 (A9), Melvin_85 (A4), Methuselah_79 (A3), Microwolf_82 (A3), MiculUcigas_88 (A2), Miko_85 (A2), Millski_82 (A4), Minispark_88 (A9), Miramae_83 (A4), Misomonster_82 (A3), MissWhite_83 (A2), MoneyMay_86 (A3), Montavir_81 (A3), Morpher26_79 (A4), Morrow_85 (A4), Mulciber_90 (A11), Munch_90 (A11), Mundrea_81 (A4), Myxus_91 (A9), NaSiaTalie_89 (A2), Nebs_84 (A4), Nemo27_82 (A4), NicoleTera_87 (A2), Noelle_80 (A4), NorthStar_80 (A4), Northrop_80 (A4), NotAPhaseMom_82 (A4), Nyxis_82 (A4), OKaNui_82 (A4), Obama12_84 (A4), Ohfah_84 (A4), OlanP_85 (A3), Ollie_86 (A3), Onglai_90 (A9), Orange_91 (A11), P28Green_86 (A3), PGHhamlin_88 (A3), PackMan_86 (A9), Palestino_82 (A4), Pawn_85 (A3), Peaches_81 (A4), Pembroke_86 (A3), Penny1_86 (A3), Perplexer_79 (A4), PeterPeter_83 (A4), Petersenfast_87 (A11), PetiteSangsue_79 (A4), Phacado_83 (A4), Phaeder_91 (A9),

Phelipe_83 (A4), Phighter1804_83 (A4), PhishRPhriends_83 (A3), Phoebe_87 (A3), Phontbonne_83 (A4), Phranny_79 (A3), Pipcraft_79 (A4), Piro94_87 (A2), Polymorphads_84 (A4), PotatoSplit_87 (A3), Power_88 (A2), Priya_89 (A9), Prudy_86 (A2), Pumbaa_83 (A4), Qobbit_89 (A9), QueenB2_85 (A2), QueenBeesly_88 (A2), RGL3_54 (CA), Rachaly_86 (A2), Rahalelujah_90 (A9), Reba_82 (A3), Relief_82 (A4), Retro23_88 (A2), RockieBear_83 (A4), Rocksand_80 (A4), Romney_82 (A4), Roosevelt_81 (A4), Rosa24_79 (A4), Ruin_83 (A4), Rummer_85 (A3), RyeScarlet_91 (A9), Sabertooth_83 (A4), Sabia_84 (A3), Sabinator_84 (A3), Sachima_91 (A9), Salz_87 (A11), Scamp_83 (A4), Scherzo_89 (A9), SemperFi_88 (A2), SenorClean_84 (A4), Shaka_81 (A4), Sham4_88 (A11), SheaKeira_86 (A9), SheldonCooper_83 (A4), Shygu2_81 (A4), Skadoosh_80 (A4), Skipitt_82 (A4), Sknot_88 (A2), Smeagan_91 (A2), SnapTap_88 (A2), Snape_91 (A11), Snickers_86 (A3), SoYo_83 (A3), SoilDragon_86 (A3), SororFago_87 (A14), Soshari_88 (A3), Sparxx_84 (A4), Spike509_86 (A3), Spino_82 (A4), Spouty_89 (A9), SteMason_83 (A4), Stink_83 (A4), Sultana_83 (A4), SweetiePie_88 (A2), Taquarus_82 (A4), TarsusIV_87 (A2), Taurus_87 (A3), Terrific_89 (A2), Thanksgivukkah_82 (A4), Tiffany_85 (A3), Timothy_91 (A11), TinaFeyge_81 (A4), TinyPebbles_85 (A3), TinyTimmy_89 (A11), Tinybot_82 (A4), TiroTheta9_82 (A4), Toaka_89 (A9), Trixie_88 (A2), TroyPia_84 (A4), Tubs_91 (A9), Turbido_89 (A2), TygerBlood_83 (A4), Ulysses_82 (A4), Updawg_89 (A2), VA6_88 (A2), Wander_83 (A4), Watson_85 (A3), WeiHuaDA_90 (A2), Whabigail7_87 (A2), WideWale_89 (A2), Wilbur_83 (A4), Wile_78 (A4), Wizard007_79 (A4), Wolpertinger_90 (A11), Wooldri_88 (A3), WorldCup_89 (A9), Xena_79 (A4), Yecey3_92 (A9), YoSam321_83 (A4),

Start 93:
• Found in 157 of 622 (25.2%) of genes in pham
• Manual Annotations of this start: 8 of 579
• Called 5.7% of time when present
• Phage (with cluster) where this start called: Anubis_90 (A3), Beemo_91 (A9), ExplosioNervosa_89 (A9), Garak_94 (A6), IronMan_85 (A2), Phonnegut_91 (A9), Pioneer_91 (A9), Roksolana_93 (A6), Ugenie5_78 (A9),

Start 99:
• Found in 353 of 622 (56.8%) of genes in pham
• Manual Annotations of this start: 1 of 579
• Called 0.3% of time when present
• Phage (with cluster) where this start called: Vanisoa_86 (A9),

Start 103:
• Found in 38 of 622 (6.1%) of genes in pham
• Manual Annotations of this start: 1 of 579
• Called 2.6% of time when present
• Phage (with cluster) where this start called: Ejemplo_62 (BD1),

Summary by clusters:

There are 24 clusters represented in this pham: singleton, M1, M3, M2, A14, A17, A11, A10, A12, A19, A3, BD6, BD1, A4, A7, BD2, A9, A2, AA, CA, A6, A20, A22, K7,

Info for manual annotations of cluster A10:
•Start number 73 was manually annotated 15 times for cluster A10.

Info for manual annotations of cluster A11:
•Start number 86 was manually annotated 1 time for cluster A11.
•Start number 91 was manually annotated 27 times for cluster A11.

Info for manual annotations of cluster A12:
•Start number 81 was manually annotated 1 time for cluster A12.
•Start number 84 was manually annotated 3 times for cluster A12.

Info for manual annotations of cluster A14:
•Start number 89 was manually annotated 1 time for cluster A14.
•Start number 91 was manually annotated 4 times for cluster A14.

Info for manual annotations of cluster A19:
•Start number 72 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A2:
•Start number 44 was manually annotated 3 times for cluster A2.
•Start number 61 was manually annotated 1 time for cluster A2.
•Start number 79 was manually annotated 7 times for cluster A2.
•Start number 80 was manually annotated 2 times for cluster A2.
•Start number 82 was manually annotated 2 times for cluster A2.
•Start number 84 was manually annotated 20 times for cluster A2.
•Start number 91 was manually annotated 71 times for cluster A2.
•Start number 93 was manually annotated 1 time for cluster A2.

Info for manual annotations of cluster A20:
•Start number 91 was manually annotated 2 times for cluster A20.

Info for manual annotations of cluster A22:
•Start number 91 was manually annotated 1 time for cluster A22.

Info for manual annotations of cluster A3:
•Start number 68 was manually annotated 8 times for cluster A3.
•Start number 71 was manually annotated 13 times for cluster A3.
•Start number 72 was manually annotated 6 times for cluster A3.
•Start number 73 was manually annotated 5 times for cluster A3.
•Start number 78 was manually annotated 1 time for cluster A3.
•Start number 87 was manually annotated 4 times for cluster A3.
•Start number 91 was manually annotated 75 times for cluster A3.
•Start number 93 was manually annotated 1 time for cluster A3.

Info for manual annotations of cluster A4:
•Start number 73 was manually annotated 1 time for cluster A4.
•Start number 91 was manually annotated 141 times for cluster A4.

Info for manual annotations of cluster A6:
•Start number 84 was manually annotated 48 times for cluster A6.
•Start number 93 was manually annotated 1 time for cluster A6.

Info for manual annotations of cluster A7:
•Start number 72 was manually annotated 5 times for cluster A7.

Info for manual annotations of cluster A9:
•Start number 89 was manually annotated 1 time for cluster A9.
•Start number 90 was manually annotated 1 time for cluster A9.
•Start number 91 was manually annotated 38 times for cluster A9.
•Start number 93 was manually annotated 5 times for cluster A9.
•Start number 99 was manually annotated 1 time for cluster A9.

Info for manual annotations of cluster AA:
•Start number 76 was manually annotated 2 times for cluster AA.

Info for manual annotations of cluster BD1:
•Start number 89 was manually annotated 27 times for cluster BD1.
•Start number 103 was manually annotated 1 time for cluster BD1.

Info for manual annotations of cluster BD2:
•Start number 85 was manually annotated 4 times for cluster BD2.
•Start number 89 was manually annotated 1 time for cluster BD2.

Info for manual annotations of cluster BD6:
•Start number 89 was manually annotated 4 times for cluster BD6.

Info for manual annotations of cluster K7:
•Start number 76 was manually annotated 1 time for cluster K7.

Info for manual annotations of cluster M1:
•Start number 69 was manually annotated 15 times for cluster M1.

Info for manual annotations of cluster M2:
•Start number 69 was manually annotated 4 times for cluster M2.

Info for manual annotations of cluster M3:
•Start number 69 was manually annotated 1 time for cluster M3.

Gene Information:

Gene: 20ES_90 Start: 49778, Stop: 49425, Start Num: 91
Candidate Starts for 20ES_90:
(Start: 91 @49778 has 360 MA's), (Start: 99 @49742 has 1 MA's), (111, 49676), (118, 49628), (132, 49562), (161, 49439),

Gene: 40AC_85 Start: 50012, Stop: 49629, Start Num: 84
Candidate Starts for 40AC_85:
(59, 50072), (70, 50042), (Start: 84 @50012 has 71 MA's), (Start: 93 @49991 has 8 MA's), (Start: 99 @49946 has 1 MA's), (101, 49934), (107, 49901), (110, 49880), (116, 49856), (118, 49829), (123, 49793), (124, 49790),

Gene: AN3_88 Start: 48036, Stop: 47689, Start Num: 91
Candidate Starts for AN3_88:
(19, 48150), (Start: 91 @48036 has 360 MA's), (Start: 99 @48000 has 1 MA's), (111, 47934), (115, 47922), (118, 47886), (132, 47820), (161, 47703),

Gene: AbbyPaige_90 Start: 49905, Stop: 49552, Start Num: 91
Candidate Starts for AbbyPaige_90:
(46, 50007), (48, 50001), (Start: 91 @49905 has 360 MA's), (Start: 99 @49869 has 1 MA's), (111, 49803), (118, 49755), (132, 49689), (161, 49566),

Gene: AbbysRanger_79 Start: 48052, Stop: 47699, Start Num: 91
Candidate Starts for AbbysRanger_79:
(Start: 91 @48052 has 360 MA's), (Start: 99 @48016 has 1 MA's), (110, 47953), (115, 47938), (117, 47926), (118, 47902), (126, 47854), (139, 47824), (159, 47728), (161, 47713),

Gene: Abdiel_82 Start: 48428, Stop: 48075, Start Num: 91
Candidate Starts for Abdiel_82:
(Start: 91 @48428 has 360 MA's), (Start: 99 @48392 has 1 MA's), (110, 48329), (132, 48212), (139, 48200), (159, 48104), (161, 48089),

Gene: Achebe_78 Start: 48031, Stop: 47678, Start Num: 91
Candidate Starts for Achebe_78:
(Start: 91 @48031 has 360 MA's), (Start: 99 @47995 has 1 MA's), (110, 47932), (118, 47881), (132, 47815), (139, 47803), (159, 47707), (161, 47692),

Gene: Acolyte_82 Start: 48841, Stop: 48461, Start Num: 84
Candidate Starts for Acolyte_82:
(Start: 84 @48841 has 71 MA's), (Start: 93 @48820 has 8 MA's), (107, 48730), (116, 48685), (117, 48682), (118, 48658), (123, 48622),

Gene: Adzzy_90 Start: 48766, Stop: 48386, Start Num: 84
Candidate Starts for Adzzy_90:
(Start: 80 @48772 has 2 MA's), (Start: 84 @48766 has 71 MA's), (Start: 93 @48745 has 8 MA's), (101, 48688), (104, 48679), (107, 48655), (110, 48634), (116, 48610), (121, 48562),

Gene: Agape74_90 Start: 49881, Stop: 49528, Start Num: 91
Candidate Starts for Agape74_90:
(17, 50133), (22, 50091), (46, 49983), (48, 49977), (Start: 91 @49881 has 360 MA's), (Start: 99 @49845 has 1 MA's), (111, 49779), (118, 49731), (132, 49665), (161, 49542),

Gene: Aglet_87 Start: 47779, Stop: 47396, Start Num: 91
Candidate Starts for Aglet_87:
(Start: 87 @47785 has 4 MA's), (Start: 89 @47782 has 34 MA's), (Start: 91 @47779 has 360 MA's), (98, 47737), (110, 47662), (111, 47659), (127, 47560), (136, 47530),

Gene: AgronaGT15_78 Start: 45756, Stop: 45373, Start Num: 91
Candidate Starts for AgronaGT15_78:
(Start: 87 @45762 has 4 MA's), (Start: 89 @45759 has 34 MA's), (Start: 91 @45756 has 360 MA's), (110, 45639), (111, 45636), (127, 45537), (136, 45507),

Gene: Albee_83 Start: 48416, Stop: 48063, Start Num: 91
Candidate Starts for Albee_83:
(Start: 91 @48416 has 360 MA's), (Start: 99 @48380 has 1 MA's), (139, 48188), (144, 48173), (159, 48092), (161, 48077),

Gene: Alberto7_84 Start: 48753, Stop: 48400, Start Num: 91
Candidate Starts for Alberto7_84:

(Start: 91 @48753 has 360 MA's), (Start: 99 @48717 has 1 MA's), (139, 48525), (144, 48510), (159, 48429), (161, 48414),

Gene: Aliter_84 Start: 46628, Stop: 46275, Start Num: 91
Candidate Starts for Aliter_84:
(Start: 91 @46628 has 360 MA's), (Start: 93 @46622 has 8 MA's), (Start: 99 @46592 has 1 MA's), (107, 46550), (110, 46529), (144, 46385), (161, 46289),

Gene: Alma_89 Start: 49473, Stop: 49117, Start Num: 89
Candidate Starts for Alma_89:
(Start: 85 @49482 has 4 MA's), (Start: 89 @49473 has 34 MA's), (Start: 91 @49470 has 360 MA's), (Start: 93 @49464 has 8 MA's), (Start: 99 @49434 has 1 MA's), (107, 49392), (110, 49371), (144, 49227), (161, 49131),

Gene: Aminay_76 Start: 49123, Stop: 49491, Start Num: 76
Candidate Starts for Aminay_76:
(Start: 76 @49123 has 3 MA's), (77, 49126), (95, 49171), (Start: 103 @49210 has 1 MA's), (107, 49225), (117, 49273), (122, 49321), (123, 49333), (124, 49336), (126, 49345), (137, 49375), (147, 49408), (150, 49432), (152, 49450), (154, 49456), (162, 49486),

Gene: Aneem_92 Start: 48945, Stop: 48592, Start Num: 91
Candidate Starts for Aneem_92:
(Start: 86 @48948 has 1 MA's), (Start: 91 @48945 has 360 MA's), (101, 48900), (107, 48867), (110, 48846), (115, 48831), (118, 48795), (134, 48726), (144, 48702), (161, 48606),

Gene: AnnaL29_90 Start: 49983, Stop: 49630, Start Num: 44
Candidate Starts for AnnaL29_90:
(Start: 44 @49983 has 3 MA's), (Start: 99 @49947 has 1 MA's), (111, 49881), (115, 49869), (118, 49833), (132, 49767), (134, 49764), (161, 49644),

Gene: Annyong_82 Start: 48461, Stop: 48108, Start Num: 91
Candidate Starts for Annyong_82:
(Start: 91 @48461 has 360 MA's), (Start: 99 @48425 has 1 MA's), (139, 48233), (144, 48218), (159, 48137), (161, 48122),

Gene: Anselm_90 Start: 49888, Stop: 49535, Start Num: 91
Candidate Starts for Anselm_90:
(Start: 91 @49888 has 360 MA's), (Start: 99 @49852 has 1 MA's), (101, 49843), (111, 49786), (118, 49738), (132, 49672), (161, 49549),

Gene: Anthony_83 Start: 48707, Stop: 48354, Start Num: 91
Candidate Starts for Anthony_83:
(Start: 91 @48707 has 360 MA's), (94, 48695), (107, 48629), (110, 48608), (111, 48605), (115, 48593), (123, 48521), (164, 48365),

Gene: Anubis_90 Start: 47664, Stop: 47287, Start Num: 93
Candidate Starts for Anubis_90:
(33, 47829), (62, 47739), (64, 47730), (Start: 78 @47700 has 1 MA's), (Start: 87 @47676 has 4 MA's), (Start: 91 @47670 has 360 MA's), (Start: 93 @47664 has 8 MA's), (98, 47628), (110, 47553), (111, 47550), (127, 47451), (136, 47421),

Gene: ArcherNM_84 Start: 49422, Stop: 49075, Start Num: 91
Candidate Starts for ArcherNM_84:

(Start: 91 @49422 has 360 MA's), (Start: 99 @49386 has 1 MA's), (111, 49320), (118, 49272), (132, 49206), (144, 49185), (161, 49089),

Gene: Arissanae_86 Start: 49335, Stop: 48982, Start Num: 91
Candidate Starts for Arissanae_86:
(23, 49536), (25, 49527), (Start: 71 @49380 has 13 MA's), (Start: 84 @49350 has 71 MA's), (Start: 91 @49335 has 360 MA's), (Start: 99 @49299 has 1 MA's), (107, 49257), (118, 49185), (132, 49119), (161, 48996),

Gene: Artemis2UCLA_92 Start: 48310, Stop: 47930, Start Num: 84
Candidate Starts for Artemis2UCLA_92:
(43, 48412), (Start: 84 @48310 has 71 MA's), (Start: 93 @48289 has 8 MA's), (Start: 99 @48244 has 1 MA's), (101, 48232), (110, 48178), (115, 48163), (116, 48154), (117, 48151), (123, 48091), (124, 48088), (151, 47998), (157, 47965),

Gene: Arturo_80 Start: 48544, Stop: 48191, Start Num: 91
Candidate Starts for Arturo_80:
(Start: 91 @48544 has 360 MA's), (Start: 99 @48508 has 1 MA's), (139, 48316), (144, 48301), (159, 48220), (161, 48205),

Gene: Asten_64 Start: 46443, Stop: 46072, Start Num: 89
Candidate Starts for Asten_64:
(56, 46518), (Start: 89 @46443 has 34 MA's), (97, 46407), (Start: 103 @46383 has 1 MA's), (109, 46344), (120, 46269), (124, 46245), (126, 46236), (148, 46149), (152, 46125), (158, 46104),

Gene: Auspice_150 Start: 76253, Stop: 75846, Start Num: 69
Candidate Starts for Auspice_150:
(47, 76304), (Start: 69 @76253 has 20 MA's), (107, 76127), (111, 76103), (116, 76082), (117, 76079), (127, 76004), (135, 75983), (152, 75899), (157, 75881),

Gene: AvatarAhPeg_83 Start: 48669, Stop: 48316, Start Num: 91
Candidate Starts for AvatarAhPeg_83:
(Start: 91 @48669 has 360 MA's), (Start: 99 @48633 has 1 MA's), (110, 48570), (118, 48519), (126, 48471), (127, 48468), (132, 48453), (139, 48441), (159, 48345), (161, 48330),

Gene: Avle17_83 Start: 48410, Stop: 48057, Start Num: 91
Candidate Starts for Avle17_83:
(Start: 91 @48410 has 360 MA's), (Start: 99 @48374 has 1 MA's), (110, 48311), (139, 48182), (144, 48167), (159, 48086), (161, 48071),

Gene: Ayanochan_88 Start: 49251, Stop: 48898, Start Num: 91
Candidate Starts for Ayanochan_88:
(Start: 91 @49251 has 360 MA's), (Start: 93 @49245 has 8 MA's), (Start: 99 @49215 has 1 MA's), (107, 49173), (110, 49152), (144, 49008), (161, 48912),

Gene: Aziz_162 Start: 78171, Stop: 77764, Start Num: 69
Candidate Starts for Aziz_162:
(38, 78252), (47, 78222), (Start: 69 @78171 has 20 MA's), (Start: 93 @78117 has 8 MA's), (102, 78075), (107, 78045), (111, 78021), (113, 78018), (127, 77922), (152, 77817),

Gene: BABullseye_84 Start: 46645, Stop: 46265, Start Num: 84
Candidate Starts for BABullseye_84:

(43, 46747), (Start: 84 @46645 has 71 MA's), (Start: 93 @46624 has 8 MA's), (Start: 99 @46579 has 1 MA's), (101, 46567), (110, 46513), (115, 46498), (116, 46489), (123, 46426), (124, 46423), (151, 46333), (157, 46300),

Gene: Baby16_83 Start: 48427, Stop: 48074, Start Num: 91
Candidate Starts for Baby16_83:
(Start: 91 @48427 has 360 MA's), (Start: 99 @48391 has 1 MA's), (139, 48199), (144, 48184), (159, 48103), (161, 48088),

Gene: BabyBack_85 Start: 50269, Stop: 49889, Start Num: 79
Candidate Starts for BabyBack_85:
(Start: 61 @50311 has 1 MA's), (Start: 79 @50269 has 7 MA's), (101, 50191), (110, 50137), (116, 50113), (117, 50110), (118, 50086), (123, 50050), (148, 49966), (161, 49903),

Gene: BabyJohn_67 Start: 44193, Stop: 43780, Start Num: 73
Candidate Starts for BabyJohn_67:
(30, 44307), (Start: 73 @44193 has 21 MA's), (Start: 84 @44169 has 71 MA's), (107, 44076), (118, 44004), (156, 43833),

Gene: BabyRay_85 Start: 47530, Stop: 47117, Start Num: 73
Candidate Starts for BabyRay_85:
(Start: 73 @47530 has 21 MA's), (107, 47413), (118, 47341), (123, 47305), (156, 47170),

Gene: Bachome_89 Start: 47993, Stop: 47640, Start Num: 91
Candidate Starts for Bachome_89:
(Start: 86 @47996 has 1 MA's), (Start: 91 @47993 has 360 MA's), (Start: 99 @47957 has 1 MA's), (108, 47912), (111, 47891), (115, 47879), (118, 47843), (123, 47807), (161, 47654),

Gene: Backyardigan_77 Start: 48068, Stop: 47715, Start Num: 91
Candidate Starts for Backyardigan_77:
(Start: 91 @48068 has 360 MA's), (Start: 99 @48032 has 1 MA's), (110, 47969), (115, 47954), (117, 47942), (118, 47918), (126, 47870), (139, 47840), (159, 47744), (161, 47729),

Gene: Bactobuster_80 Start: 48766, Stop: 48386, Start Num: 80
Candidate Starts for Bactobuster_80:
(Start: 61 @48808 has 1 MA's), (Start: 80 @48766 has 2 MA's), (Start: 93 @48745 has 8 MA's), (101, 48688), (110, 48634), (116, 48610), (117, 48607), (118, 48583), (120, 48568), (123, 48547),

Gene: Badger_78 Start: 48034, Stop: 47681, Start Num: 91
Candidate Starts for Badger_78:
(Start: 91 @48034 has 360 MA's), (Start: 99 @47998 has 1 MA's), (110, 47935), (115, 47920), (117, 47908), (118, 47884), (126, 47836), (139, 47806), (159, 47710), (161, 47695),

Gene: Baehexic_87 Start: 49162, Stop: 48815, Start Num: 91
Candidate Starts for Baehexic_87:
(46, 49264), (48, 49258), (Start: 91 @49162 has 360 MA's), (Start: 99 @49126 has 1 MA's), (111, 49060), (118, 49012), (132, 48946), (144, 48925), (161, 48829),

Gene: BangNhom_80 Start: 48853, Stop: 48500, Start Num: 91
Candidate Starts for BangNhom_80:
(Start: 91 @48853 has 360 MA's), (Start: 99 @48817 has 1 MA's), (110, 48754), (132, 48637), (139, 48625), (159, 48529), (161, 48514),

Gene: BarryBee_67 Start: 46419, Stop: 46048, Start Num: 89
Candidate Starts for BarryBee_67:
(56, 46494), (Start: 89 @46419 has 34 MA's), (97, 46383), (Start: 103 @46359 has 1 MA's), (109, 46320), (120, 46245), (124, 46221), (126, 46212), (148, 46125), (152, 46101), (158, 46080),

Gene: Bartimeaus_83 Start: 48418, Stop: 48065, Start Num: 91
Candidate Starts for Bartimeaus_83:
(Start: 91 @48418 has 360 MA's), (Start: 99 @48382 has 1 MA's), (139, 48190), (144, 48175), (159, 48094), (161, 48079),

Gene: Beauxregard13_85 Start: 47787, Stop: 47404, Start Num: 91
Candidate Starts for Beauxregard13_85:
(Start: 87 @47793 has 4 MA's), (Start: 89 @47790 has 34 MA's), (Start: 91 @47787 has 360 MA's), (98, 47745), (110, 47670), (111, 47667), (127, 47568), (136, 47538),

Gene: Beemo_91 Start: 49455, Stop: 49108, Start Num: 93
Candidate Starts for Beemo_91:
(Start: 91 @49461 has 360 MA's), (Start: 93 @49455 has 8 MA's), (Start: 99 @49425 has 1 MA's), (107, 49383), (110, 49362), (144, 49218), (161, 49122),

Gene: Bellris_90 Start: 48983, Stop: 48630, Start Num: 91
Candidate Starts for Bellris_90:
(Start: 91 @48983 has 360 MA's), (Start: 99 @48947 has 1 MA's), (107, 48905), (124, 48794), (132, 48767), (161, 48644),

Gene: BellusTerra_83 Start: 48281, Stop: 47928, Start Num: 91
Candidate Starts for BellusTerra_83:
(Start: 91 @48281 has 360 MA's), (Start: 99 @48245 has 1 MA's), (139, 48053), (144, 48038), (159, 47957), (161, 47942),

Gene: BengiVuitton_90 Start: 49877, Stop: 49530, Start Num: 91
Candidate Starts for BengiVuitton_90:
(Start: 91 @49877 has 360 MA's), (Start: 99 @49841 has 1 MA's), (117, 49751), (118, 49727), (132, 49661), (161, 49544),

Gene: BennyP_93 Start: 48487, Stop: 48107, Start Num: 84
Candidate Starts for BennyP_93:
(43, 48589), (Start: 84 @48487 has 71 MA's), (Start: 93 @48466 has 8 MA's), (Start: 99 @48421 has 1 MA's), (101, 48409), (110, 48355), (115, 48340), (116, 48331), (117, 48328), (123, 48268), (124, 48265), (151, 48175), (157, 48142),

Gene: Benvolio_87 Start: 49504, Stop: 49151, Start Num: 91
Candidate Starts for Benvolio_87:
(24, 49585), (Start: 91 @49504 has 360 MA's), (Start: 99 @49468 has 1 MA's), (111, 49402), (118, 49354), (132, 49288), (161, 49165),

Gene: BiancaTri92_86 Start: 49338, Stop: 48985, Start Num: 91
Candidate Starts for BiancaTri92_86:
(Start: 91 @49338 has 360 MA's), (Start: 99 @49302 has 1 MA's), (118, 49188), (126, 49140), (127, 49137), (132, 49122), (161, 48999),

Gene: Bigflo_84 Start: 47784, Stop: 47395, Start Num: 87
Candidate Starts for Bigflo_84:

(33, 47937), (62, 47847), (64, 47838), (Start: 78 @47808 has 1 MA's), (Start: 87 @47784 has 4 MA's), (Start: 91 @47778 has 360 MA's), (Start: 93 @47772 has 8 MA's), (110, 47661), (111, 47658), (127, 47559), (136, 47529),

Gene: Blackmoor_82 Start: 48418, Stop: 48065, Start Num: 91
Candidate Starts for Blackmoor_82:
(Start: 91 @48418 has 360 MA's), (Start: 99 @48382 has 1 MA's), (139, 48190), (144, 48175), (159, 48094), (161, 48079),

Gene: BlessJoy_93 Start: 48834, Stop: 48454, Start Num: 84
Candidate Starts for BlessJoy_93:
(43, 48936), (Start: 84 @48834 has 71 MA's), (Start: 93 @48813 has 8 MA's), (Start: 99 @48768 has 1 MA's), (101, 48756), (110, 48702), (115, 48687), (116, 48678), (117, 48675), (123, 48615), (124, 48612), (151, 48522), (157, 48489),

Gene: Blinn1_93 Start: 48557, Stop: 48177, Start Num: 84
Candidate Starts for Blinn1_93:
(21, 48755), (34, 48701), (54, 48629), (55, 48626), (60, 48617), (Start: 84 @48557 has 71 MA's), (Start: 93 @48536 has 8 MA's), (Start: 99 @48491 has 1 MA's), (101, 48479), (110, 48425), (115, 48410), (116, 48401), (123, 48338), (124, 48335), (151, 48245), (157, 48212),

Gene: Blue7_94 Start: 48544, Stop: 48164, Start Num: 84
Candidate Starts for Blue7_94:
(43, 48646), (Start: 84 @48544 has 71 MA's), (Start: 93 @48523 has 8 MA's), (Start: 99 @48478 has 1 MA's), (101, 48466), (110, 48412), (115, 48397), (116, 48388), (117, 48385), (123, 48325), (124, 48322), (151, 48232), (157, 48199),

Gene: BlueBird_88 Start: 47971, Stop: 47552, Start Num: 71
Candidate Starts for BlueBird_88:
(Start: 71 @47971 has 13 MA's), (Start: 84 @47941 has 71 MA's), (Start: 99 @47890 has 1 MA's), (118, 47776), (123, 47740), (156, 47605),

Gene: BobSwaget_83 Start: 47356, Stop: 47003, Start Num: 91
Candidate Starts for BobSwaget_83:
(Start: 91 @47356 has 360 MA's), (Start: 99 @47320 has 1 MA's), (111, 47254), (118, 47206), (132, 47140), (161, 47017),

Gene: BogosyJay_90 Start: 49514, Stop: 49161, Start Num: 91
Candidate Starts for BogosyJay_90:
(Start: 91 @49514 has 360 MA's), (Start: 99 @49478 has 1 MA's), (107, 49436), (110, 49415), (144, 49271), (161, 49175),

Gene: Bombshell_83 Start: 48413, Stop: 48060, Start Num: 91
Candidate Starts for Bombshell_83:
(Start: 91 @48413 has 360 MA's), (Start: 99 @48377 has 1 MA's), (110, 48314), (139, 48185), (144, 48170), (159, 48089), (161, 48074),

Gene: Bongo_144 Start: 75110, Stop: 74703, Start Num: 69
Candidate Starts for Bongo_144:
(Start: 69 @75110 has 20 MA's), (107, 74984), (111, 74960), (116, 74939), (117, 74936), (127, 74861), (135, 74840), (152, 74756), (157, 74738),

Gene: Bowtie_87 Start: 47552, Stop: 47199, Start Num: 91

Candidate Starts for Bowtie_87:
(Start: 86 @47555 has 1 MA's), (Start: 91 @47552 has 360 MA's), (101, 47507), (107, 47474), (110, 47453), (115, 47438), (118, 47402), (134, 47333), (144, 47309), (161, 47213),

Gene: Bradman_92 Start: 49070, Stop: 48690, Start Num: 84
Candidate Starts for Bradman_92:
(Start: 84 @49070 has 71 MA's), (Start: 93 @49049 has 8 MA's), (104, 48983), (107, 48959), (110, 48938), (116, 48914), (117, 48911), (123, 48851), (144, 48800), (161, 48704),

Gene: Brataylor_68 Start: 45979, Stop: 45608, Start Num: 89
Candidate Starts for Brataylor_68:
(56, 46054), (Start: 89 @45979 has 34 MA's), (Start: 103 @45919 has 1 MA's), (109, 45880), (120, 45805), (124, 45781), (126, 45772), (148, 45685), (152, 45661), (158, 45640),

Gene: BreSam8_86 Start: 47772, Stop: 47389, Start Num: 91
Candidate Starts for BreSam8_86:
(33, 47931), (62, 47841), (64, 47832), (Start: 78 @47802 has 1 MA's), (Start: 87 @47778 has 4 MA's), (Start: 91 @47772 has 360 MA's), (Start: 93 @47766 has 8 MA's), (110, 47655), (111, 47652), (127, 47553), (136, 47523),

Gene: Bricole_152 Start: 76016, Stop: 75609, Start Num: 69
Candidate Starts for Bricole_152:
(Start: 69 @76016 has 20 MA's), (107, 75890), (111, 75866), (116, 75845), (117, 75842), (127, 75767), (135, 75746), (152, 75662), (157, 75644),

Gene: Broseidon_83 Start: 48419, Stop: 48066, Start Num: 91
Candidate Starts for Broseidon_83:
(Start: 91 @48419 has 360 MA's), (Start: 99 @48383 has 1 MA's), (139, 48191), (144, 48176), (159, 48095), (161, 48080),

Gene: Bruiser_82 Start: 48416, Stop: 48063, Start Num: 91
Candidate Starts for Bruiser_82:
(Start: 91 @48416 has 360 MA's), (Start: 99 @48380 has 1 MA's), (110, 48317), (139, 48188), (144, 48173), (159, 48092), (161, 48077),

Gene: BubbleTrouble_82 Start: 48443, Stop: 48090, Start Num: 91
Candidate Starts for BubbleTrouble_82:
(Start: 91 @48443 has 360 MA's), (Start: 99 @48407 has 1 MA's), (139, 48215), (144, 48200), (159, 48119), (161, 48104),

Gene: Buckaroo_79 Start: 48420, Stop: 48067, Start Num: 91
Candidate Starts for Buckaroo_79:
(Start: 91 @48420 has 360 MA's), (Start: 99 @48384 has 1 MA's), (139, 48192), (144, 48177), (159, 48096), (161, 48081),

Gene: Bud_84 Start: 47651, Stop: 47298, Start Num: 91
Candidate Starts for Bud_84:
(Start: 86 @47654 has 1 MA's), (Start: 91 @47651 has 360 MA's), (101, 47606), (107, 47573), (110, 47552), (115, 47537), (118, 47501), (134, 47432), (144, 47408), (161, 47312),

Gene: Bugatti_89 Start: 47971, Stop: 47552, Start Num: 71
Candidate Starts for Bugatti_89:

(Start: 71 @47971 has 13 MA's), (Start: 84 @47941 has 71 MA's), (Start: 99 @47890 has 1 MA's), (118, 47776), (123, 47740), (156, 47605),

Gene: Bumblebee11_78 Start: 48034, Stop: 47681, Start Num: 91
Candidate Starts for Bumblebee11_78:
(Start: 91 @48034 has 360 MA's), (Start: 99 @47998 has 1 MA's), (110, 47935), (115, 47920), (117, 47908), (118, 47884), (126, 47836), (139, 47806), (159, 47710), (161, 47695),

Gene: Burger_81 Start: 48416, Stop: 48063, Start Num: 91
Candidate Starts for Burger_81:
(Start: 91 @48416 has 360 MA's), (Start: 99 @48380 has 1 MA's), (139, 48188), (144, 48173), (159, 48092), (161, 48077),

Gene: BuzzBuzz_80 Start: 47812, Stop: 47429, Start Num: 91
Candidate Starts for BuzzBuzz_80:
(Start: 87 @47818 has 4 MA's), (Start: 89 @47815 has 34 MA's), (Start: 91 @47812 has 360 MA's), (98, 47770), (110, 47695), (111, 47692), (127, 47593), (136, 47563),

Gene: Bxz2_81 Start: 47819, Stop: 47436, Start Num: 91
Candidate Starts for Bxz2_81:
(Start: 87 @47825 has 4 MA's), (Start: 89 @47822 has 34 MA's), (Start: 91 @47819 has 360 MA's), (110, 47702), (111, 47699), (127, 47600), (136, 47570),

Gene: CRB1_89 Start: 49969, Stop: 49622, Start Num: 91
Candidate Starts for CRB1_89:
(15, 50119), (Start: 91 @49969 has 360 MA's), (Start: 99 @49933 has 1 MA's), (111, 49867), (118, 49819), (132, 49753), (161, 49636),

Gene: Caelakin_81 Start: 48416, Stop: 48063, Start Num: 91
Candidate Starts for Caelakin_81:
(Start: 91 @48416 has 360 MA's), (Start: 99 @48380 has 1 MA's), (110, 48317), (139, 48188), (144, 48173), (159, 48092), (161, 48077),

Gene: Calvinny_86 Start: 47828, Stop: 47439, Start Num: 91
Candidate Starts for Calvinny_86:
(Start: 91 @47828 has 360 MA's), (110, 47711), (111, 47708), (127, 47609),

Gene: Camperdownii_79 Start: 47659, Stop: 47306, Start Num: 91
Candidate Starts for Camperdownii_79:
(Start: 91 @47659 has 360 MA's), (Start: 99 @47623 has 1 MA's), (118, 47509), (126, 47461), (132, 47443), (139, 47431), (159, 47335), (161, 47320),

Gene: Candra_92 Start: 48349, Stop: 47969, Start Num: 84
Candidate Starts for Candra_92:
(43, 48451), (Start: 84 @48349 has 71 MA's), (Start: 93 @48328 has 8 MA's), (Start: 99 @48283 has 1 MA's), (101, 48271), (110, 48217), (115, 48202), (116, 48193), (123, 48130), (124, 48127), (151, 48037), (157, 48004),

Gene: Caraxes_89 Start: 48723, Stop: 48343, Start Num: 84
Candidate Starts for Caraxes_89:
(Start: 84 @48723 has 71 MA's), (Start: 93 @48702 has 8 MA's), (104, 48636), (110, 48591), (113, 48585), (116, 48567), (121, 48519), (138, 48465),

Gene: Cat_72 Start: 45261, Stop: 44848, Start Num: 73
Candidate Starts for Cat_72:
(Start: 73 @45261 has 21 MA's), (107, 45144), (118, 45072), (123, 45036), (156, 44901),

Gene: Catalina_93 Start: 49575, Stop: 49222, Start Num: 91
Candidate Starts for Catalina_93:
(Start: 91 @49575 has 360 MA's), (Start: 93 @49569 has 8 MA's), (Start: 99 @49539 has 1 MA's), (107, 49497), (110, 49476), (144, 49332), (161, 49236),

Gene: Caviar_74 Start: 44633, Stop: 44208, Start Num: 68
Candidate Starts for Caviar_74:
(35, 44723), (Start: 68 @44633 has 8 MA's), (Start: 72 @44624 has 12 MA's), (Start: 84 @44597 has 71 MA's), (107, 44504), (152, 44276), (156, 44261),

Gene: Celeste_67 Start: 45444, Stop: 45073, Start Num: 89
Candidate Starts for Celeste_67:
(56, 45519), (Start: 89 @45444 has 34 MA's), (Start: 103 @45384 has 1 MA's), (109, 45345), (120, 45270), (124, 45246), (126, 45237), (148, 45150), (152, 45126), (158, 45105),

Gene: Celestialunch_86 Start: 48715, Stop: 48362, Start Num: 91
Candidate Starts for Celestialunch_86:
(Start: 91 @48715 has 360 MA's), (Start: 93 @48709 has 8 MA's), (94, 48703), (118, 48565), (127, 48514), (132, 48499), (159, 48391), (161, 48376),

Gene: Celia_69 Start: 45609, Stop: 45220, Start Num: 89
Candidate Starts for Celia_69:
(Start: 86 @45615 has 1 MA's), (Start: 89 @45609 has 34 MA's), (Start: 103 @45552 has 1 MA's), (109, 45513), (115, 45489), (120, 45438), (122, 45429), (123, 45417), (124, 45414), (133, 45381), (146, 45342), (152, 45288), (161, 45249),

Gene: Centaur_88 Start: 49029, Stop: 48682, Start Num: 91
Candidate Starts for Centaur_88:
(46, 49131), (48, 49125), (Start: 91 @49029 has 360 MA's), (Start: 99 @48993 has 1 MA's), (111, 48927), (118, 48879), (132, 48813), (144, 48792), (161, 48696),

Gene: CentreCat_83 Start: 48456, Stop: 48103, Start Num: 91
Candidate Starts for CentreCat_83:
(Start: 91 @48456 has 360 MA's), (Start: 99 @48420 has 1 MA's), (110, 48357), (132, 48240), (139, 48228), (159, 48132), (161, 48117),

Gene: Cerulean_85 Start: 48854, Stop: 48501, Start Num: 91
Candidate Starts for Cerulean_85:
(Start: 91 @48854 has 360 MA's), (Start: 99 @48818 has 1 MA's), (110, 48755), (132, 48638), (139, 48626), (159, 48530), (161, 48515),

Gene: ChampagnePapi_86 Start: 48856, Stop: 48503, Start Num: 91
Candidate Starts for ChampagnePapi_86:
(Start: 91 @48856 has 360 MA's), (Start: 99 @48820 has 1 MA's), (110, 48757), (132, 48640), (139, 48628), (159, 48532), (161, 48517),

Gene: Changeling_87 Start: 49974, Stop: 49618, Start Num: 91
Candidate Starts for Changeling_87:

(Start: 91 @49974 has 360 MA's), (Start: 99 @49938 has 1 MA's), (107, 49896), (112, 49869), (115, 49857), (118, 49821), (124, 49782), (127, 49770), (139, 49743), (159, 49647), (161, 49632),

Gene: Chaph_83 Start: 48427, Stop: 48074, Start Num: 91
Candidate Starts for Chaph_83:
(Start: 91 @48427 has 360 MA's), (Start: 99 @48391 has 1 MA's), (110, 48328), (139, 48199), (144, 48184), (159, 48103), (161, 48088),

Gene: Chargerpower_88 Start: 48024, Stop: 47668, Start Num: 91
Candidate Starts for Chargerpower_88:
(Start: 91 @48024 has 360 MA's), (Start: 99 @47988 has 1 MA's), (112, 47919), (139, 47793), (159, 47697), (161, 47682),

Gene: Charm_86 Start: 48867, Stop: 48514, Start Num: 91
Candidate Starts for Charm_86:
(Start: 91 @48867 has 360 MA's), (94, 48855), (Start: 99 @48831 has 1 MA's), (127, 48666), (132, 48651), (144, 48624), (161, 48528),

Gene: Chartreuse_90 Start: 47650, Stop: 47270, Start Num: 84
Candidate Starts for Chartreuse_90:
(43, 47752), (Start: 84 @47650 has 71 MA's), (Start: 93 @47629 has 8 MA's), (Start: 99 @47584 has 1 MA's), (101, 47572), (110, 47518), (115, 47503), (116, 47494), (123, 47431), (124, 47428), (151, 47338), (157, 47305),

Gene: Che12_91 Start: 48845, Stop: 48465, Start Num: 84
Candidate Starts for Che12_91:
(66, 48884), (Start: 84 @48845 has 71 MA's), (Start: 93 @48824 has 8 MA's), (101, 48767), (104, 48758), (110, 48713), (116, 48689), (121, 48641), (124, 48623),

Gene: ChipMunk_89 Start: 50944, Stop: 50591, Start Num: 91
Candidate Starts for ChipMunk_89:
(10, 51148), (11, 51145), (19, 51058), (24, 51025), (Start: 91 @50944 has 360 MA's), (Start: 99 @50908 has 1 MA's), (111, 50842), (118, 50794), (132, 50728), (161, 50605),

Gene: Chiqui_67 Start: 44202, Stop: 43789, Start Num: 73
Candidate Starts for Chiqui_67:
(30, 44316), (Start: 73 @44202 has 21 MA's), (Start: 84 @44178 has 71 MA's), (107, 44085), (118, 44013), (156, 43842),

Gene: Chucky_64 Start: 46480, Stop: 46109, Start Num: 89
Candidate Starts for Chucky_64:
(56, 46555), (Start: 89 @46480 has 34 MA's), (97, 46444), (Start: 103 @46420 has 1 MA's), (109, 46381), (120, 46306), (124, 46282), (126, 46273), (148, 46186), (152, 46162), (158, 46141),

Gene: Chupacabra_79 Start: 48067, Stop: 47660, Start Num: 73
Candidate Starts for Chupacabra_79:
(Start: 73 @48067 has 21 MA's), (Start: 84 @48043 has 71 MA's), (107, 47950), (110, 47929), (114, 47920), (117, 47902), (123, 47842), (128, 47827), (156, 47713),

Gene: Cici_79 Start: 48047, Stop: 47694, Start Num: 91
Candidate Starts for Cici_79:
(Start: 91 @48047 has 360 MA's), (Start: 99 @48011 has 1 MA's), (110, 47948), (115, 47933), (117, 47921), (118, 47897), (126, 47849), (139, 47819), (159, 47723), (161, 47708),

Gene: Cindaradix_78 Start: 48629, Stop: 48276, Start Num: 91
Candidate Starts for Cindaradix_78:
(Start: 91 @48629 has 360 MA's), (Start: 99 @48593 has 1 MA's), (115, 48515), (126, 48431), (139, 48401), (159, 48305), (161, 48290),

Gene: Cintron_83 Start: 48532, Stop: 48179, Start Num: 91
Candidate Starts for Cintron_83:
(Start: 91 @48532 has 360 MA's), (Start: 99 @48496 has 1 MA's), (110, 48433), (118, 48382), (126, 48334), (139, 48304), (159, 48208), (161, 48193),

Gene: Citius_83 Start: 48437, Stop: 48084, Start Num: 91
Candidate Starts for Citius_83:
(Start: 91 @48437 has 360 MA's), (Start: 99 @48401 has 1 MA's), (110, 48338), (132, 48221), (139, 48209), (159, 48113), (161, 48098),

Gene: Clammy_88 Start: 47971, Stop: 47552, Start Num: 71
Candidate Starts for Clammy_88:
(Start: 71 @47971 has 13 MA's), (Start: 84 @47941 has 71 MA's), (Start: 99 @47890 has 1 MA's), (118, 47776), (123, 47740), (156, 47605),

Gene: Clarenza_82 Start: 48413, Stop: 48060, Start Num: 91
Candidate Starts for Clarenza_82:
(Start: 91 @48413 has 360 MA's), (Start: 99 @48377 has 1 MA's), (139, 48185), (144, 48170), (159, 48089), (161, 48074),

Gene: CloudWang3_93 Start: 48839, Stop: 48459, Start Num: 84
Candidate Starts for CloudWang3_93:
(43, 48941), (Start: 84 @48839 has 71 MA's), (Start: 93 @48818 has 8 MA's), (Start: 99 @48773 has 1 MA's), (101, 48761), (110, 48707), (115, 48692), (116, 48683), (117, 48680), (123, 48620), (124, 48617), (151, 48527), (157, 48494),

Gene: ClownCar_86 Start: 47822, Stop: 47433, Start Num: 91
Candidate Starts for ClownCar_86:
(Start: 91 @47822 has 360 MA's), (110, 47705), (111, 47702), (127, 47603), (136, 47573),

Gene: Cocoaberry_83 Start: 48417, Stop: 48064, Start Num: 91
Candidate Starts for Cocoaberry_83:
(Start: 91 @48417 has 360 MA's), (Start: 99 @48381 has 1 MA's), (110, 48318), (139, 48189), (144, 48174), (159, 48093), (161, 48078),

Gene: CogOmlette_88 Start: 48980, Stop: 48627, Start Num: 91
Candidate Starts for CogOmlette_88:
(Start: 91 @48980 has 360 MA's), (Start: 99 @48944 has 1 MA's), (107, 48902), (124, 48791), (132, 48764), (161, 48641),

Gene: Colbster_82 Start: 47787, Stop: 47404, Start Num: 91
Candidate Starts for Colbster_82:
(Start: 87 @47793 has 4 MA's), (Start: 89 @47790 has 34 MA's), (Start: 91 @47787 has 360 MA's), (98, 47745), (110, 47670), (111, 47667), (127, 47568), (136, 47538),

Gene: Colin_88 Start: 50113, Stop: 49757, Start Num: 91
Candidate Starts for Colin_88:

(53, 50194), (Start: 91 @50113 has 360 MA's), (Start: 93 @50107 has 8 MA's), (Start: 99 @50077 has 1 MA's), (107, 50035), (112, 50008), (118, 49960), (124, 49921), (139, 49882), (159, 49786), (161, 49771),

Gene: Commander_81 Start: 48420, Stop: 48067, Start Num: 91
Candidate Starts for Commander_81:
(Start: 91 @48420 has 360 MA's), (Start: 99 @48384 has 1 MA's), (139, 48192), (144, 48177), (159, 48096), (161, 48081),

Gene: Connomayer_83 Start: 48416, Stop: 48063, Start Num: 91
Candidate Starts for Connomayer_83:
(Start: 91 @48416 has 360 MA's), (Start: 99 @48380 has 1 MA's), (139, 48188), (144, 48173), (159, 48092), (161, 48077),

Gene: Conquerage_89 Start: 49236, Stop: 48883, Start Num: 91
Candidate Starts for Conquerage_89:
(Start: 91 @49236 has 360 MA's), (Start: 93 @49230 has 8 MA's), (Start: 99 @49200 has 1 MA's), (107, 49158), (110, 49137), (144, 48993), (161, 48897),

Gene: Cookiedough_91 Start: 48964, Stop: 48584, Start Num: 84
Candidate Starts for Cookiedough_91:
(43, 49066), (Start: 84 @48964 has 71 MA's), (Start: 93 @48943 has 8 MA's), (Start: 99 @48898 has 1 MA's), (101, 48886), (110, 48832), (115, 48817), (116, 48808), (123, 48745), (124, 48742), (151, 48652), (157, 48619),

Gene: Croquant_83 Start: 47784, Stop: 47401, Start Num: 91
Candidate Starts for Croquant_83:
(Start: 87 @47790 has 4 MA's), (Start: 89 @47787 has 34 MA's), (Start: 91 @47784 has 360 MA's), (98, 47742), (110, 47667), (111, 47664), (127, 47565), (136, 47535),

Gene: Crucio_88 Start: 49737, Stop: 49384, Start Num: 91
Candidate Starts for Crucio_88:
(Start: 91 @49737 has 360 MA's), (Start: 99 @49701 has 1 MA's), (111, 49635), (118, 49587), (127, 49536), (132, 49521), (161, 49398),

Gene: Cullens_87 Start: 47781, Stop: 47398, Start Num: 91
Candidate Starts for Cullens_87:
(Start: 87 @47787 has 4 MA's), (Start: 91 @47781 has 360 MA's), (98, 47739), (110, 47664), (111, 47661), (127, 47562), (136, 47532),

Gene: DBQu4n_90 Start: 49509, Stop: 49129, Start Num: 84
Candidate Starts for DBQu4n_90:
(Start: 84 @49509 has 71 MA's), (104, 49422), (116, 49353), (117, 49350), (118, 49326),

Gene: DaHudson_85 Start: 47771, Stop: 47388, Start Num: 91
Candidate Starts for DaHudson_85:
(33, 47930), (62, 47840), (64, 47831), (Start: 78 @47801 has 1 MA's), (Start: 87 @47777 has 4 MA's), (Start: 91 @47771 has 360 MA's), (Start: 93 @47765 has 8 MA's), (110, 47654), (111, 47651), (127, 47552), (136, 47522),

Gene: DaVinci_89 Start: 47704, Stop: 47324, Start Num: 84
Candidate Starts for DaVinci_89:

(43, 47806), (Start: 84 @47704 has 71 MA's), (Start: 93 @47683 has 8 MA's), (Start: 99 @47638 has 1 MA's), (101, 47626), (110, 47572), (115, 47557), (116, 47548), (123, 47485), (124, 47482), (151, 47392), (157, 47359),

Gene: Daishi_85 Start: 46653, Stop: 46270, Start Num: 91
Candidate Starts for Daishi_85:
(Start: 87 @46659 has 4 MA's), (Start: 89 @46656 has 34 MA's), (Start: 91 @46653 has 360 MA's), (110, 46536), (111, 46533), (127, 46434), (136, 46404),

Gene: Dalmatian_88 Start: 49536, Stop: 49183, Start Num: 91
Candidate Starts for Dalmatian_88:
(Start: 91 @49536 has 360 MA's), (Start: 99 @49500 has 1 MA's), (101, 49491), (111, 49434), (118, 49386), (132, 49320), (161, 49197),

Gene: Danzina_67 Start: 45693, Stop: 45322, Start Num: 89
Candidate Starts for Danzina_67:
(56, 45768), (Start: 89 @45693 has 34 MA's), (Start: 103 @45633 has 1 MA's), (109, 45594), (120, 45519), (124, 45495), (126, 45486), (148, 45399), (152, 45375), (158, 45354),

Gene: Darrell_89 Start: 48667, Stop: 48314, Start Num: 91
Candidate Starts for Darrell_89:
(Start: 91 @48667 has 360 MA's), (Start: 99 @48631 has 1 MA's), (107, 48589), (110, 48568), (115, 48553), (118, 48517), (124, 48478), (132, 48451), (161, 48328),

Gene: DarthPhader_81 Start: 48465, Stop: 48082, Start Num: 84
Candidate Starts for DarthPhader_81:
(Start: 84 @48465 has 71 MA's), (Start: 93 @48444 has 8 MA's), (116, 48309), (118, 48282), (123, 48246), (124, 48243), (138, 48207),

Gene: Datway_80 Start: 48227, Stop: 47874, Start Num: 91
Candidate Starts for Datway_80:
(Start: 91 @48227 has 360 MA's), (Start: 99 @48191 has 1 MA's), (110, 48128), (126, 48029), (132, 48011), (139, 47999), (159, 47903), (161, 47888),

Gene: Daudau_73 Start: 46103, Stop: 45723, Start Num: 85
Candidate Starts for Daudau_73:
(Start: 85 @46103 has 4 MA's), (Start: 89 @46094 has 34 MA's), (100, 46046), (Start: 103 @46037 has 1 MA's), (106, 46022), (115, 45974), (128, 45878), (142, 45842), (146, 45830), (148, 45800), (152, 45776), (161, 45737),

Gene: Deano_80 Start: 48424, Stop: 48071, Start Num: 91
Candidate Starts for Deano_80:
(Start: 91 @48424 has 360 MA's), (Start: 99 @48388 has 1 MA's), (139, 48196), (144, 48181), (159, 48100), (161, 48085),

Gene: DeerParkTS_84 Start: 48245, Stop: 47898, Start Num: 91
Candidate Starts for DeerParkTS_84:
(Start: 91 @48245 has 360 MA's), (Start: 99 @48209 has 1 MA's), (111, 48143), (115, 48131), (118, 48095), (126, 48047), (127, 48044), (132, 48029), (161, 47912),

Gene: Deloris_90 Start: 49570, Stop: 49223, Start Num: 91
Candidate Starts for Deloris_90:

(Start: 91 @49570 has 360 MA's), (Start: 99 @49534 has 1 MA's), (111, 49468), (118, 49420), (132, 49354), (161, 49237),

Gene: DelvinSonDorr_86 Start: 47913, Stop: 47533, Start Num: 84
Candidate Starts for DelvinSonDorr_86:
(43, 48015), (Start: 84 @47913 has 71 MA's), (Start: 93 @47892 has 8 MA's), (Start: 99 @47847 has 1 MA's), (101, 47835), (110, 47781), (115, 47766), (116, 47757), (123, 47694), (124, 47691), (151, 47601), (157, 47568),

Gene: Dhanush_83 Start: 48419, Stop: 48066, Start Num: 91
Candidate Starts for Dhanush_83:
(Start: 91 @48419 has 360 MA's), (Start: 99 @48383 has 1 MA's), (139, 48191), (144, 48176), (159, 48095), (161, 48080),

Gene: Diane_72 Start: 46434, Stop: 46066, Start Num: 89
Candidate Starts for Diane_72:
(Start: 89 @46434 has 34 MA's), (100, 46389), (Start: 103 @46380 has 1 MA's), (105, 46371), (106, 46365), (115, 46317), (123, 46245), (127, 46233), (128, 46224), (152, 46119), (157, 46101),

Gene: Dieselweasel_87 Start: 47785, Stop: 47402, Start Num: 91
Candidate Starts for Dieselweasel_87:
(Start: 87 @47791 has 4 MA's), (Start: 89 @47788 has 34 MA's), (Start: 91 @47785 has 360 MA's), (98, 47743), (110, 47668), (111, 47665), (127, 47566), (136, 47536),

Gene: Dignity_90 Start: 49988, Stop: 49635, Start Num: 91
Candidate Starts for Dignity_90:
(17, 50240), (22, 50198), (46, 50090), (48, 50084), (Start: 91 @49988 has 360 MA's), (Start: 99 @49952 has 1 MA's), (111, 49886), (118, 49838), (132, 49772), (161, 49649),

Gene: Diminimus_147 Start: 74926, Stop: 74519, Start Num: 69
Candidate Starts for Diminimus_147:
(Start: 69 @74926 has 20 MA's), (107, 74800), (111, 74776), (116, 74755), (117, 74752), (127, 74677), (135, 74656), (152, 74572), (157, 74554),

Gene: DirtyDunning_82 Start: 48428, Stop: 48075, Start Num: 91
Candidate Starts for DirtyDunning_82:
(Start: 91 @48428 has 360 MA's), (Start: 99 @48392 has 1 MA's), (126, 48230), (139, 48200), (144, 48185), (159, 48104), (161, 48089),

Gene: DontArgue_77 Start: 46933, Stop: 46526, Start Num: 73
Candidate Starts for DontArgue_77:
(Start: 73 @46933 has 21 MA's), (Start: 84 @46909 has 71 MA's), (107, 46816), (110, 46795), (114, 46786), (117, 46768), (124, 46705), (128, 46693), (144, 46645), (156, 46579),

Gene: Dorothea_91 Start: 48956, Stop: 48576, Start Num: 84
Candidate Starts for Dorothea_91:
(43, 49058), (Start: 84 @48956 has 71 MA's), (Start: 93 @48935 has 8 MA's), (Start: 99 @48890 has 1 MA's), (101, 48878), (110, 48824), (115, 48809), (116, 48800), (123, 48737), (124, 48734), (151, 48644), (157, 48611),

Gene: Drake55_89 Start: 49285, Stop: 48932, Start Num: 91
Candidate Starts for Drake55_89:

(Start: 91 @49285 has 360 MA's), (Start: 99 @49249 has 1 MA's), (111, 49183), (118, 49135), (132, 49069), (144, 49042), (161, 48946),

Gene: Drake94_79 Start: 47227, Stop: 46820, Start Num: 73
Candidate Starts for Drake94_79:
(Start: 73 @47227 has 21 MA's), (Start: 84 @47203 has 71 MA's), (107, 47110), (110, 47089), (114, 47080), (117, 47062), (123, 47002), (128, 46987), (144, 46939), (152, 46888), (156, 46873),

Gene: DreamTeam1_86 Start: 48715, Stop: 48362, Start Num: 91
Candidate Starts for DreamTeam1_86:
(Start: 91 @48715 has 360 MA's), (Start: 93 @48709 has 8 MA's), (Start: 99 @48679 has 1 MA's), (110, 48616), (127, 48514), (132, 48499), (144, 48472), (161, 48376),

Gene: DroogsArmy_79 Start: 50479, Stop: 50045, Start Num: 72
Candidate Starts for DroogsArmy_79:
(Start: 72 @50479 has 12 MA's), (Start: 84 @50452 has 71 MA's), (Start: 93 @50431 has 8 MA's), (104, 50383), (107, 50359), (110, 50338), (117, 50311), (118, 50287), (126, 50239), (128, 50236), (143, 50185), (145, 50164),

Gene: DropBear_86 Start: 47810, Stop: 47391, Start Num: 71
Candidate Starts for DropBear_86:
(29, 47936), (Start: 71 @47810 has 13 MA's), (Start: 84 @47780 has 71 MA's), (Start: 99 @47729 has 1 MA's), (118, 47615), (123, 47579), (156, 47444),

Gene: Druantia_81 Start: 48243, Stop: 47890, Start Num: 91
Candidate Starts for Druantia_81:
(Start: 91 @48243 has 360 MA's), (Start: 99 @48207 has 1 MA's), (110, 48144), (115, 48129), (117, 48117), (118, 48093), (126, 48045), (139, 48015), (159, 47919), (161, 47904),

Gene: DudeLittle_86 Start: 49255, Stop: 48902, Start Num: 91
Candidate Starts for DudeLittle_86:
(Start: 91 @49255 has 360 MA's), (Start: 99 @49219 has 1 MA's), (101, 49210), (111, 49153), (118, 49105), (132, 49039), (161, 48916),

Gene: Dulcita_147 Start: 74927, Stop: 74520, Start Num: 69
Candidate Starts for Dulcita_147:
(Start: 69 @74927 has 20 MA's), (107, 74801), (111, 74777), (116, 74756), (117, 74753), (127, 74678), (135, 74657), (152, 74573), (157, 74555),

Gene: Duplo_91 Start: 49566, Stop: 49186, Start Num: 84
Candidate Starts for Duplo_91:
(Start: 84 @49566 has 71 MA's), (104, 49479), (116, 49410), (117, 49407), (118, 49383),

Gene: DustyMartin_85 Start: 48324, Stop: 47917, Start Num: 73
Candidate Starts for DustyMartin_85:
(26, 48471), (Start: 73 @48324 has 21 MA's), (Start: 84 @48300 has 71 MA's), (107, 48207), (117, 48159), (123, 48099), (132, 48069), (141, 48051),

Gene: Dwayne_64 Start: 46468, Stop: 46097, Start Num: 89
Candidate Starts for Dwayne_64:
(56, 46543), (Start: 89 @46468 has 34 MA's), (97, 46432), (Start: 103 @46408 has 1 MA's), (109, 46369), (120, 46294), (124, 46270), (126, 46261), (148, 46174), (152, 46150), (158, 46129),

Gene: EZMoney23_85 Start: 48736, Stop: 48389, Start Num: 91
Candidate Starts for EZMoney23_85:
(46, 48820), (58, 48811), (Start: 91 @48736 has 360 MA's), (Start: 99 @48700 has 1 MA's), (111, 48634), (118, 48586), (132, 48520), (144, 48499), (161, 48403),

Gene: Eagle_82 Start: 48478, Stop: 48125, Start Num: 91
Candidate Starts for Eagle_82:
(Start: 91 @48478 has 360 MA's), (Start: 99 @48442 has 1 MA's), (110, 48379), (139, 48250), (144, 48235), (159, 48154), (161, 48139),

Gene: Eaglepride_85 Start: 48147, Stop: 47740, Start Num: 73
Candidate Starts for Eaglepride_85:
(Start: 73 @48147 has 21 MA's), (Start: 84 @48123 has 71 MA's), (110, 48009), (114, 48000), (117, 47982), (123, 47922), (124, 47919), (126, 47910), (152, 47808), (156, 47793),

Gene: Eapen_83 Start: 48411, Stop: 48058, Start Num: 91
Candidate Starts for Eapen_83:
(Start: 91 @48411 has 360 MA's), (Start: 99 @48375 has 1 MA's), (110, 48312), (139, 48183), (159, 48087), (161, 48072),

Gene: Ebony_90 Start: 48516, Stop: 48163, Start Num: 91
Candidate Starts for Ebony_90:
(Start: 86 @48519 has 1 MA's), (Start: 91 @48516 has 360 MA's), (101, 48471), (107, 48438), (110, 48417), (115, 48402), (118, 48366), (134, 48297), (144, 48273), (161, 48177),

Gene: Echild_92 Start: 49528, Stop: 49175, Start Num: 91
Candidate Starts for Echild_92:
(24, 49609), (Start: 91 @49528 has 360 MA's), (Start: 99 @49492 has 1 MA's), (111, 49426), (118, 49378), (132, 49312), (161, 49189),

Gene: EdogawaKiddo_91 Start: 49538, Stop: 49185, Start Num: 91
Candidate Starts for EdogawaKiddo_91:
(Start: 91 @49538 has 360 MA's), (Start: 93 @49532 has 8 MA's), (Start: 99 @49502 has 1 MA's), (107, 49460), (110, 49439), (144, 49295), (161, 49199),

Gene: Eidsmoe_89 Start: 49229, Stop: 48876, Start Num: 91
Candidate Starts for Eidsmoe_89:
(Start: 91 @49229 has 360 MA's), (Start: 93 @49223 has 8 MA's), (Start: 99 @49193 has 1 MA's), (107, 49151), (110, 49130), (144, 48986), (161, 48890),

Gene: Ejemplo_62 Start: 46347, Stop: 46036, Start Num: 103
Candidate Starts for Ejemplo_62:
(56, 46482), (Start: 89 @46407 has 34 MA's), (97, 46371), (Start: 103 @46347 has 1 MA's), (109, 46308), (120, 46233), (124, 46209), (126, 46200), (148, 46113), (152, 46089), (158, 46068),

Gene: Elephantoon_91 Start: 49394, Stop: 49041, Start Num: 91
Candidate Starts for Elephantoon_91:
(Start: 87 @49397 has 4 MA's), (Start: 91 @49394 has 360 MA's), (Start: 99 @49358 has 1 MA's), (107, 49316), (115, 49280), (117, 49268), (118, 49244), (132, 49178), (161, 49055),

Gene: Emaanora_67 Start: 46392, Stop: 46021, Start Num: 89
Candidate Starts for Emaanora_67:

(56, 46467), (Start: 89 @46392 has 34 MA's), (97, 46356), (Start: 103 @46332 has 1 MA's), (109, 46293), (120, 46218), (124, 46194), (126, 46185), (148, 46098), (152, 46074), (158, 46053),

Gene: EmyBug_88 Start: 49231, Stop: 48878, Start Num: 91
Candidate Starts for EmyBug_88:
(Start: 91 @49231 has 360 MA's), (Start: 93 @49225 has 8 MA's), (Start: 99 @49195 has 1 MA's), (107, 49153), (110, 49132), (144, 48988), (161, 48892),

Gene: EpicPhail_87 Start: 47787, Stop: 47404, Start Num: 91
Candidate Starts for EpicPhail_87:
(Start: 87 @47793 has 4 MA's), (Start: 89 @47790 has 34 MA's), (Start: 91 @47787 has 360 MA's), (98, 47745), (110, 47670), (111, 47667), (127, 47568), (136, 47538),

Gene: Equemioh13_88 Start: 49264, Stop: 48911, Start Num: 91
Candidate Starts for Equemioh13_88:
(46, 49366), (48, 49360), (Start: 91 @49264 has 360 MA's), (Start: 99 @49228 has 1 MA's), (111, 49162), (117, 49138), (118, 49114), (132, 49048), (144, 49021), (161, 48925),

Gene: EricB_89 Start: 47853, Stop: 47473, Start Num: 84
Candidate Starts for EricB_89:
(43, 47955), (Start: 84 @47853 has 71 MA's), (Start: 93 @47832 has 8 MA's), (Start: 99 @47787 has 1 MA's), (101, 47775), (110, 47721), (115, 47706), (116, 47697), (123, 47634), (124, 47631), (151, 47541), (157, 47508),

Gene: Eris_82 Start: 48428, Stop: 48075, Start Num: 91
Candidate Starts for Eris_82:
(Start: 91 @48428 has 360 MA's), (Start: 99 @48392 has 1 MA's), (110, 48329), (139, 48200), (144, 48185), (159, 48104), (161, 48089),

Gene: Eros_83 Start: 48424, Stop: 48071, Start Num: 91
Candidate Starts for Eros_83:
(Start: 91 @48424 has 360 MA's), (Start: 99 @48388 has 1 MA's), (139, 48196), (144, 48181), (159, 48100), (161, 48085),

Gene: Estes_162 Start: 78376, Stop: 77969, Start Num: 69
Candidate Starts for Estes_162:
(38, 78457), (47, 78427), (Start: 69 @78376 has 20 MA's), (Start: 93 @78322 has 8 MA's), (102, 78280), (107, 78250), (110, 78229), (111, 78226), (113, 78223), (123, 78142), (126, 78130), (127, 78127), (152, 78022),

Gene: Et2Brutus_91 Start: 48793, Stop: 48440, Start Num: 91
Candidate Starts for Et2Brutus_91:
(Start: 86 @48796 has 1 MA's), (Start: 91 @48793 has 360 MA's), (101, 48748), (107, 48715), (110, 48694), (115, 48679), (118, 48643), (134, 48574), (144, 48550), (161, 48454),

Gene: EtoileNova_82 Start: 47631, Stop: 47215, Start Num: 72
Candidate Starts for EtoileNova_82:
(35, 47730), (Start: 68 @47640 has 8 MA's), (Start: 72 @47631 has 12 MA's), (Start: 84 @47604 has 71 MA's), (107, 47511), (152, 47283), (156, 47268),

Gene: Eurydice_84 Start: 48453, Stop: 48100, Start Num: 91
Candidate Starts for Eurydice_84:

(Start: 91 @48453 has 360 MA's), (Start: 99 @48417 has 1 MA's), (110, 48354), (132, 48237), (139, 48225), (159, 48129), (161, 48114),

Gene: EvilGenius_88 Start: 50945, Stop: 50592, Start Num: 91
Candidate Starts for EvilGenius_88:
(10, 51149), (11, 51146), (19, 51059), (24, 51026), (Start: 91 @50945 has 360 MA's), (Start: 99 @50909 has 1 MA's), (111, 50843), (118, 50795), (132, 50729), (161, 50606),

Gene: ExplosioNervosa_89 Start: 49291, Stop: 48944, Start Num: 93
Candidate Starts for ExplosioNervosa_89:
(Start: 91 @49297 has 360 MA's), (Start: 93 @49291 has 8 MA's), (Start: 99 @49261 has 1 MA's), (107, 49219), (110, 49198), (144, 49054), (161, 48958),

Gene: Fameo_87 Start: 49308, Stop: 48955, Start Num: 91
Candidate Starts for Fameo_87:
(24, 49389), (Start: 91 @49308 has 360 MA's), (Start: 99 @49272 has 1 MA's), (111, 49206), (132, 49092), (161, 48969),

Gene: FatCactus_82 Start: 48170, Stop: 47817, Start Num: 91
Candidate Starts for FatCactus_82:
(Start: 91 @48170 has 360 MA's), (94, 48158), (107, 48092), (110, 48071), (111, 48068), (115, 48056), (164, 47828),

Gene: Fayely_89 Start: 49205, Stop: 48852, Start Num: 91
Candidate Starts for Fayely_89:
(Start: 91 @49205 has 360 MA's), (Start: 93 @49199 has 8 MA's), (Start: 99 @49169 has 1 MA's), (107, 49127), (110, 49106), (144, 48962), (161, 48866),

Gene: Fernando_87 Start: 47781, Stop: 47398, Start Num: 91
Candidate Starts for Fernando_87:
(Start: 87 @47787 has 4 MA's), (Start: 91 @47781 has 360 MA's), (98, 47739), (110, 47664), (111, 47661), (127, 47562), (136, 47532),

Gene: Fibonacci_91 Start: 48799, Stop: 48446, Start Num: 91
Candidate Starts for Fibonacci_91:
(Start: 86 @48802 has 1 MA's), (Start: 91 @48799 has 360 MA's), (101, 48754), (107, 48721), (110, 48700), (115, 48685), (118, 48649), (134, 48580), (144, 48556), (161, 48460),

Gene: FiringLine_88 Start: 49833, Stop: 49480, Start Num: 91
Candidate Starts for FiringLine_88:
(Start: 91 @49833 has 360 MA's), (Start: 99 @49797 has 1 MA's), (111, 49731), (118, 49683), (127, 49632), (161, 49494),

Gene: First_0089 Start: 49681, Stop: 49328, Start Num: 91
Candidate Starts for First_0089:
(Start: 91 @49681 has 360 MA's), (Start: 99 @49645 has 1 MA's), (118, 49531), (132, 49465), (161, 49342),

Gene: Flare16_88 Start: 49079, Stop: 48726, Start Num: 91
Candidate Starts for Flare16_88:
(46, 49181), (48, 49175), (Start: 91 @49079 has 360 MA's), (Start: 99 @49043 has 1 MA's), (111, 48977), (118, 48929), (132, 48863), (144, 48836), (161, 48740),

Gene: Flaverint_92 Start: 48943, Stop: 48590, Start Num: 91
Candidate Starts for Flaverint_92:
(Start: 86 @48946 has 1 MA's), (Start: 91 @48943 has 360 MA's), (101, 48898), (107, 48865), (110, 48844), (115, 48829), (118, 48793), (134, 48724), (144, 48700), (161, 48604),

Gene: Florean_83 Start: 48415, Stop: 48062, Start Num: 91
Candidate Starts for Florean_83:
(Start: 91 @48415 has 360 MA's), (Start: 99 @48379 has 1 MA's), (139, 48187), (144, 48172), (159, 48091), (161, 48076),

Gene: Flux_84 Start: 48414, Stop: 48061, Start Num: 91
Candidate Starts for Flux_84:
(Start: 91 @48414 has 360 MA's), (Start: 99 @48378 has 1 MA's), (110, 48315), (132, 48198), (139, 48186), (144, 48171), (159, 48090), (161, 48075),

Gene: FlyCatcher_84 Start: 51171, Stop: 50770, Start Num: 72
Candidate Starts for FlyCatcher_84:
(Start: 72 @51171 has 12 MA's), (Start: 84 @51147 has 71 MA's), (94, 51120), (101, 51087), (111, 51030), (117, 51006), (123, 50946), (126, 50934), (149, 50853), (155, 50832), (166, 50778),

Gene: ForesterFrank_85 Start: 49352, Stop: 49005, Start Num: 91
Candidate Starts for ForesterFrank_85:
(Start: 91 @49352 has 360 MA's), (Start: 99 @49316 has 1 MA's), (111, 49250), (118, 49202), (132, 49136), (144, 49115), (161, 49019),

Gene: FreakyGoo_149 Start: 76168, Stop: 75761, Start Num: 69
Candidate Starts for FreakyGoo_149:
(47, 76219), (Start: 69 @76168 has 20 MA's), (107, 76042), (111, 76018), (116, 75997), (117, 75994), (127, 75919), (135, 75898), (152, 75814), (157, 75796),

Gene: Fred313_83 Start: 47601, Stop: 47182, Start Num: 71
Candidate Starts for Fred313_83:
(29, 47727), (Start: 71 @47601 has 13 MA's), (Start: 84 @47571 has 71 MA's), (Start: 99 @47520 has 1 MA's), (118, 47406), (123, 47370), (156, 47235),

Gene: Funston_82 Start: 48413, Stop: 48060, Start Num: 91
Candidate Starts for Funston_82:
(Start: 91 @48413 has 360 MA's), (Start: 99 @48377 has 1 MA's), (110, 48314), (139, 48185), (144, 48170), (159, 48089), (161, 48074),

Gene: Gadost_83 Start: 48417, Stop: 48064, Start Num: 91
Candidate Starts for Gadost_83:
(Start: 91 @48417 has 360 MA's), (Start: 99 @48381 has 1 MA's), (110, 48318), (139, 48189), (144, 48174), (159, 48093), (161, 48078),

Gene: Gail_90 Start: 49237, Stop: 48884, Start Num: 91
Candidate Starts for Gail_90:
(14, 49504), (88, 49240), (Start: 91 @49237 has 360 MA's), (94, 49225), (Start: 99 @49201 has 1 MA's), (110, 49138), (117, 49111), (118, 49087), (126, 49039), (127, 49036), (139, 49009), (159, 48913), (161, 48898),

Gene: Garak_94 Start: 48763, Stop: 48404, Start Num: 93
Candidate Starts for Garak_94:

(43, 48886), (Start: 84 @48784 has 71 MA's), (Start: 93 @48763 has 8 MA's), (Start: 99 @48718 has 1 MA's), (101, 48706), (110, 48652), (115, 48637), (116, 48628), (117, 48625), (123, 48565), (124, 48562), (151, 48472), (157, 48439),

Gene: GaugeLDP_84 Start: 49819, Stop: 49439, Start Num: 79
Candidate Starts for GaugeLDP_84:
(Start: 61 @49861 has 1 MA's), (Start: 79 @49819 has 7 MA's), (101, 49741), (110, 49687), (113, 49681), (116, 49663), (117, 49660), (118, 49636), (123, 49600), (138, 49561), (148, 49516), (161, 49453),

Gene: Gemma_84 Start: 47825, Stop: 47436, Start Num: 91
Candidate Starts for Gemma_84:
(Start: 91 @47825 has 360 MA's), (110, 47708), (111, 47705), (127, 47606), (136, 47576),

Gene: Georgie2_90 Start: 49881, Stop: 49528, Start Num: 91
Candidate Starts for Georgie2_90:
(Start: 91 @49881 has 360 MA's), (Start: 99 @49845 has 1 MA's), (111, 49779), (118, 49731), (127, 49680), (132, 49665), (161, 49542),

Gene: Gilberta_89 Start: 47819, Stop: 47466, Start Num: 91
Candidate Starts for Gilberta_89:
(Start: 86 @47822 has 1 MA's), (Start: 91 @47819 has 360 MA's), (101, 47774), (107, 47741), (110, 47720), (115, 47705), (118, 47669), (134, 47600), (144, 47576), (161, 47480),

Gene: GingkoMaracino_86 Start: 47670, Stop: 47281, Start Num: 87
Candidate Starts for GingkoMaracino_86:
(Start: 87 @47670 has 4 MA's), (Start: 89 @47667 has 34 MA's), (Start: 91 @47664 has 360 MA's), (98, 47622), (110, 47547), (111, 47544), (127, 47445), (136, 47415),

Gene: Giroux_89 Start: 47970, Stop: 47551, Start Num: 71
Candidate Starts for Giroux_89:
(Start: 71 @47970 has 13 MA's), (Start: 84 @47940 has 71 MA's), (Start: 99 @47889 has 1 MA's), (118, 47775), (123, 47739), (156, 47604),

Gene: Gladiator_89 Start: 48504, Stop: 48124, Start Num: 84
Candidate Starts for Gladiator_89:
(43, 48606), (Start: 84 @48504 has 71 MA's), (Start: 93 @48483 has 8 MA's), (Start: 99 @48438 has 1 MA's), (101, 48426), (110, 48372), (115, 48357), (116, 48348), (117, 48345), (123, 48285), (124, 48282), (151, 48192), (157, 48159),

Gene: Glaske16_149 Start: 76045, Stop: 75638, Start Num: 69
Candidate Starts for Glaske16_149:
(Start: 69 @76045 has 20 MA's), (107, 75919), (111, 75895), (116, 75874), (117, 75871), (127, 75796), (135, 75775), (152, 75691), (157, 75673),

Gene: Goby_67 Start: 46314, Stop: 45943, Start Num: 89
Candidate Starts for Goby_67:
(56, 46389), (Start: 89 @46314 has 34 MA's), (Start: 103 @46254 has 1 MA's), (109, 46215), (120, 46140), (124, 46116), (126, 46107), (148, 46020), (152, 45996), (158, 45975),

Gene: Godpower_67 Start: 45590, Stop: 45219, Start Num: 89
Candidate Starts for Godpower_67:

(51, 45674), (56, 45665), (Start: 89 @45590 has 34 MA's), (Start: 103 @45530 has 1 MA's), (109, 45491), (120, 45416), (124, 45392), (126, 45383), (152, 45272), (158, 45251),

Gene: Goose_83 Start: 47878, Stop: 47471, Start Num: 73
Candidate Starts for Goose_83:
(Start: 73 @47878 has 21 MA's), (Start: 84 @47854 has 71 MA's), (107, 47761), (110, 47740), (114, 47731), (117, 47713), (123, 47653), (128, 47638), (156, 47524),

Gene: Goose1D_78 Start: 44075, Stop: 43656, Start Num: 71
Candidate Starts for Goose1D_78:
(Start: 71 @44075 has 13 MA's), (Start: 84 @44045 has 71 MA's), (Start: 99 @43994 has 1 MA's), (118, 43880), (123, 43844), (156, 43709),

Gene: Gratitude_88 Start: 49264, Stop: 48911, Start Num: 91
Candidate Starts for Gratitude_88:
(46, 49366), (48, 49360), (Start: 91 @49264 has 360 MA's), (Start: 99 @49228 has 1 MA's), (111, 49162), (117, 49138), (118, 49114), (132, 49048), (144, 49021), (161, 48925),

Gene: GreedyLawyer_84 Start: 48286, Stop: 47906, Start Num: 84
Candidate Starts for GreedyLawyer_84:
(43, 48388), (Start: 84 @48286 has 71 MA's), (Start: 93 @48265 has 8 MA's), (Start: 99 @48220 has 1 MA's), (101, 48208), (110, 48154), (115, 48139), (116, 48130), (123, 48067), (124, 48064), (151, 47974), (157, 47941),

Gene: Grif_84 Start: 47860, Stop: 47477, Start Num: 91
Candidate Starts for Grif_84:
(Start: 87 @47866 has 4 MA's), (Start: 89 @47863 has 34 MA's), (Start: 91 @47860 has 360 MA's), (98, 47818), (110, 47743), (111, 47740), (127, 47641), (136, 47611),

Gene: Groupthink_87 Start: 47827, Stop: 47438, Start Num: 91
Candidate Starts for Groupthink_87:
(Start: 91 @47827 has 360 MA's), (110, 47710), (111, 47707), (127, 47608),

Gene: Grub_84 Start: 47771, Stop: 47388, Start Num: 91
Candidate Starts for Grub_84:
(33, 47930), (62, 47840), (64, 47831), (Start: 78 @47801 has 1 MA's), (Start: 87 @47777 has 4 MA's), (Start: 91 @47771 has 360 MA's), (Start: 93 @47765 has 8 MA's), (110, 47654), (111, 47651), (127, 47552), (136, 47522),

Gene: Grum1_86 Start: 47786, Stop: 47403, Start Num: 91
Candidate Starts for Grum1_86:
(Start: 87 @47792 has 4 MA's), (Start: 89 @47789 has 34 MA's), (Start: 91 @47786 has 360 MA's), (98, 47744), (110, 47669), (111, 47666), (127, 47567), (136, 47537),

Gene: Gruunaga_93 Start: 48460, Stop: 48080, Start Num: 84
Candidate Starts for Gruunaga_93:
(43, 48562), (Start: 84 @48460 has 71 MA's), (Start: 93 @48439 has 8 MA's), (Start: 99 @48394 has 1 MA's), (101, 48382), (110, 48328), (115, 48313), (116, 48304), (117, 48301), (123, 48241), (124, 48238), (151, 48148), (157, 48115),

Gene: GtownJaz_86 Start: 47779, Stop: 47396, Start Num: 91
Candidate Starts for GtownJaz_86:

(33, 47938), (62, 47848), (64, 47839), (Start: 78 @47809 has 1 MA's), (Start: 87 @47785 has 4 MA's), (Start: 91 @47779 has 360 MA's), (Start: 93 @47773 has 8 MA's), (110, 47662), (111, 47659), (127, 47560), (136, 47530),

Gene: Gwennie_86 Start: 47787, Stop: 47404, Start Num: 91
Candidate Starts for Gwennie_86:
(Start: 87 @47793 has 4 MA's), (Start: 89 @47790 has 34 MA's), (Start: 91 @47787 has 360 MA's), (98, 47745), (110, 47670), (111, 47667), (127, 47568), (136, 47538),

Gene: HINdeR_79 Start: 49892, Stop: 49458, Start Num: 72
Candidate Starts for HINdeR_79:
(Start: 72 @49892 has 12 MA's), (Start: 84 @49865 has 71 MA's), (Start: 85 @49862 has 4 MA's), (Start: 86 @49859 has 1 MA's), (Start: 93 @49844 has 8 MA's), (Start: 99 @49814 has 1 MA's), (104, 49796), (107, 49772), (118, 49700), (126, 49652), (128, 49649), (143, 49598),

Gene: Haizum_73 Start: 46686, Stop: 46306, Start Num: 85
Candidate Starts for Haizum_73:
(3, 47055), (4, 47007), (5, 47004), (6, 46995), (8, 46989), (9, 46983), (Start: 85 @46686 has 4 MA's), (Start: 89 @46677 has 34 MA's), (100, 46632), (Start: 103 @46623 has 1 MA's), (110, 46578), (120, 46509), (122, 46500), (123, 46488), (129, 46461), (148, 46383), (152, 46359), (161, 46320),

Gene: HamSlice_79 Start: 48415, Stop: 48062, Start Num: 91
Candidate Starts for HamSlice_79:
(Start: 91 @48415 has 360 MA's), (Start: 99 @48379 has 1 MA's), (139, 48187), (144, 48172), (159, 48091), (161, 48076),

Gene: Hammer_93 Start: 48157, Stop: 47777, Start Num: 84
Candidate Starts for Hammer_93:
(43, 48259), (Start: 84 @48157 has 71 MA's), (Start: 93 @48136 has 8 MA's), (Start: 99 @48091 has 1 MA's), (101, 48079), (110, 48025), (115, 48010), (116, 48001), (117, 47998), (123, 47938), (124, 47935), (151, 47845), (157, 47812),

Gene: Hanray_91 Start: 49526, Stop: 49173, Start Num: 91
Candidate Starts for Hanray_91:
(Start: 91 @49526 has 360 MA's), (Start: 93 @49520 has 8 MA's), (Start: 99 @49490 has 1 MA's), (107, 49448), (110, 49427), (144, 49283), (161, 49187),

Gene: Happiness_82 Start: 48439, Stop: 48086, Start Num: 91
Candidate Starts for Happiness_82:
(Start: 91 @48439 has 360 MA's), (Start: 99 @48403 has 1 MA's), (110, 48340), (118, 48289), (126, 48241), (127, 48238), (139, 48211), (159, 48115), (161, 48100),

Gene: HarryHoudini_88 Start: 49289, Stop: 48936, Start Num: 91
Candidate Starts for HarryHoudini_88:
(Start: 91 @49289 has 360 MA's), (Start: 99 @49253 has 1 MA's), (111, 49187), (118, 49139), (132, 49073), (134, 49070), (144, 49046), (161, 48950),

Gene: HashRod_87 Start: 47808, Stop: 47425, Start Num: 91
Candidate Starts for HashRod_87:
(Start: 87 @47814 has 4 MA's), (Start: 89 @47811 has 34 MA's), (Start: 91 @47808 has 360 MA's), (98, 47766), (110, 47691), (111, 47688), (127, 47589), (136, 47559),

Gene: HaveUMetTed_87 Start: 47815, Stop: 47426, Start Num: 91

Candidate Starts for HaveUMetTed_87:
(Start: 91 @47815 has 360 MA's), (110, 47698), (111, 47695), (127, 47596),

Gene: Heathen_85 Start: 47689, Stop: 47270, Start Num: 71
Candidate Starts for Heathen_85:
(29, 47815), (Start: 71 @47689 has 13 MA's), (Start: 84 @47659 has 71 MA's), (Start: 99 @47608 has 1 MA's), (118, 47494), (123, 47458), (156, 47323),

Gene: Heffalump_85 Start: 49776, Stop: 49423, Start Num: 91
Candidate Starts for Heffalump_85:
(24, 49857), (Start: 91 @49776 has 360 MA's), (Start: 99 @49740 has 1 MA's), (111, 49674), (132, 49560), (161, 49437),

Gene: HelDan_85 Start: 47912, Stop: 47493, Start Num: 71
Candidate Starts for HelDan_85:
(29, 48038), (Start: 71 @47912 has 13 MA's), (Start: 84 @47882 has 71 MA's), (Start: 99 @47831 has 1 MA's), (118, 47717), (123, 47681), (156, 47546),

Gene: Heliosoles_84 Start: 47831, Stop: 47442, Start Num: 91
Candidate Starts for Heliosoles_84:
(Start: 91 @47831 has 360 MA's), (110, 47714), (111, 47711), (127, 47612),

Gene: Helmet_95 Start: 48784, Stop: 48404, Start Num: 84
Candidate Starts for Helmet_95:
(43, 48886), (Start: 84 @48784 has 71 MA's), (Start: 93 @48763 has 8 MA's), (Start: 99 @48718 has 1 MA's), (101, 48706), (110, 48652), (115, 48637), (116, 48628), (117, 48625), (123, 48565), (124, 48562), (151, 48472), (157, 48439),

Gene: Hercules11_86 Start: 47795, Stop: 47412, Start Num: 91
Candidate Starts for Hercules11_86:
(Start: 87 @47801 has 4 MA's), (Start: 89 @47798 has 34 MA's), (Start: 91 @47795 has 360 MA's), (98, 47753), (110, 47678), (111, 47675), (127, 47576), (136, 47546),

Gene: Hexamo_92 Start: 48325, Stop: 47945, Start Num: 84
Candidate Starts for Hexamo_92:
(43, 48427), (Start: 84 @48325 has 71 MA's), (Start: 93 @48304 has 8 MA's), (Start: 99 @48259 has 1 MA's), (101, 48247), (110, 48193), (115, 48178), (116, 48169), (117, 48166), (123, 48106), (124, 48103), (151, 48013), (157, 47980),

Gene: Hippo_64 Start: 46455, Stop: 46084, Start Num: 89
Candidate Starts for Hippo_64:
(56, 46530), (Start: 89 @46455 has 34 MA's), (97, 46419), (Start: 103 @46395 has 1 MA's), (109, 46356), (120, 46281), (124, 46257), (126, 46248), (148, 46161), (152, 46137), (158, 46116),

Gene: HippoHollow_86 Start: 50493, Stop: 50137, Start Num: 91
Candidate Starts for HippoHollow_86:
(Start: 91 @50493 has 360 MA's), (Start: 99 @50457 has 1 MA's), (112, 50388), (118, 50340), (132, 50274), (139, 50262), (159, 50166), (161, 50151),

Gene: Holex_91 Start: 49539, Stop: 49186, Start Num: 91
Candidate Starts for Holex_91:
(Start: 91 @49539 has 360 MA's), (Start: 93 @49533 has 8 MA's), (Start: 99 @49503 has 1 MA's), (107, 49461), (110, 49440), (144, 49296), (161, 49200),

Gene: Holli_82 Start: 48206, Stop: 47853, Start Num: 91
Candidate Starts for Holli_82:
(Start: 91 @48206 has 360 MA's), (Start: 99 @48170 has 1 MA's), (139, 47978), (144, 47963), (159, 47882), (161, 47867),

Gene: Hookmount_85 Start: 47636, Stop: 47211, Start Num: 68
Candidate Starts for Hookmount_85:
(35, 47726), (Start: 68 @47636 has 8 MA's), (Start: 72 @47627 has 12 MA's), (Start: 84 @47600 has 71 MA's), (107, 47507), (152, 47279), (156, 47264),

Gene: Hoot_86 Start: 46170, Stop: 45790, Start Num: 84
Candidate Starts for Hoot_86:
(43, 46272), (Start: 84 @46170 has 71 MA's), (Start: 93 @46149 has 8 MA's), (Start: 99 @46104 has 1 MA's), (101, 46092), (110, 46038), (115, 46023), (116, 46014), (123, 45951), (124, 45948), (151, 45858), (157, 45825),

Gene: HortumSL17_92 Start: 49573, Stop: 49220, Start Num: 91
Candidate Starts for HortumSL17_92:
(Start: 91 @49573 has 360 MA's), (Start: 93 @49567 has 8 MA's), (Start: 99 @49537 has 1 MA's), (107, 49495), (110, 49474), (144, 49330), (161, 49234),

Gene: Houdini22_82 Start: 48417, Stop: 48064, Start Num: 91
Candidate Starts for Houdini22_82:
(Start: 91 @48417 has 360 MA's), (Start: 99 @48381 has 1 MA's), (110, 48318), (139, 48189), (144, 48174), (159, 48093), (161, 48078),

Gene: Hutc2_88 Start: 47683, Stop: 47330, Start Num: 91
Candidate Starts for Hutc2_88:
(Start: 86 @47686 has 1 MA's), (Start: 91 @47683 has 360 MA's), (101, 47638), (107, 47605), (110, 47584), (115, 47569), (118, 47533), (134, 47464), (144, 47440), (161, 47344),

Gene: Huxley_75 Start: 46309, Stop: 45956, Start Num: 91
Candidate Starts for Huxley_75:
(Start: 91 @46309 has 360 MA's), (Start: 99 @46273 has 1 MA's), (110, 46210), (139, 46081), (144, 46066), (159, 45985), (161, 45970),

Gene: ICleared_82 Start: 48484, Stop: 48131, Start Num: 91
Candidate Starts for ICleared_82:
(Start: 91 @48484 has 360 MA's), (Start: 99 @48448 has 1 MA's), (110, 48385), (132, 48268), (139, 48256), (159, 48160), (161, 48145),

Gene: IPhane7_147 Start: 75869, Stop: 75462, Start Num: 69
Candidate Starts for IPhane7_147:
(47, 75920), (Start: 69 @75869 has 20 MA's), (107, 75743), (111, 75719), (116, 75698), (117, 75695), (127, 75620), (135, 75599), (152, 75515), (157, 75497),

Gene: Iceman_81 Start: 48706, Stop: 48353, Start Num: 91
Candidate Starts for Iceman_81:
(Start: 91 @48706 has 360 MA's), (Start: 99 @48670 has 1 MA's), (139, 48478), (144, 48463), (159, 48382), (161, 48367),

Gene: Imbriano_92 Start: 49158, Stop: 48778, Start Num: 84

Candidate Starts for Imbriano_92:
(43, 49260), (Start: 84 @49158 has 71 MA's), (Start: 93 @49137 has 8 MA's), (Start: 99 @49092 has 1 MA's), (101, 49080), (110, 49026), (115, 49011), (116, 49002), (123, 48939), (124, 48936), (151, 48846), (157, 48813),

Gene: Indra_96 Start: 48785, Stop: 48405, Start Num: 84
Candidate Starts for Indra_96:
(43, 48887), (Start: 84 @48785 has 71 MA's), (Start: 93 @48764 has 8 MA's), (Start: 99 @48719 has 1 MA's), (101, 48707), (110, 48653), (115, 48638), (116, 48629), (117, 48626), (123, 48566), (124, 48563), (151, 48473), (157, 48440),

Gene: Insomnia_91 Start: 48977, Stop: 48624, Start Num: 91
Candidate Starts for Insomnia_91:
(Start: 86 @48980 has 1 MA's), (Start: 91 @48977 has 360 MA's), (101, 48932), (107, 48899), (110, 48878), (115, 48863), (118, 48827), (134, 48758), (144, 48734), (161, 48638),

Gene: Iracema64_83 Start: 48680, Stop: 48327, Start Num: 91
Candidate Starts for Iracema64_83:
(Start: 91 @48680 has 360 MA's), (Start: 99 @48644 has 1 MA's), (110, 48581), (132, 48464), (139, 48452), (153, 48377), (159, 48356), (161, 48341),

Gene: IronMan_85 Start: 50258, Stop: 49899, Start Num: 93
Candidate Starts for IronMan_85:
(Start: 61 @50321 has 1 MA's), (Start: 80 @50279 has 2 MA's), (Start: 93 @50258 has 8 MA's), (94, 50252), (101, 50201), (110, 50147), (116, 50123), (117, 50120), (118, 50096), (123, 50060), (161, 49913),

Gene: Isca_81 Start: 46810, Stop: 46397, Start Num: 73
Candidate Starts for Isca_81:
(Start: 73 @46810 has 21 MA's), (124, 46582), (152, 46465), (156, 46450),

Gene: Isiphiwo_87 Start: 47875, Stop: 47495, Start Num: 84
Candidate Starts for Isiphiwo_87:
(43, 47977), (Start: 84 @47875 has 71 MA's), (Start: 93 @47854 has 8 MA's), (Start: 99 @47809 has 1 MA's), (101, 47797), (110, 47743), (115, 47728), (116, 47719), (123, 47656), (124, 47653), (151, 47563), (157, 47530),

Gene: Itza_72 Start: 45542, Stop: 45153, Start Num: 89
Candidate Starts for Itza_72:
(Start: 86 @45548 has 1 MA's), (Start: 89 @45542 has 34 MA's), (Start: 103 @45485 has 1 MA's), (109, 45446), (115, 45422), (120, 45371), (122, 45362), (123, 45350), (124, 45347), (131, 45320), (133, 45314), (146, 45275), (152, 45221), (161, 45182),

Gene: Iwokeuplikedis_92 Start: 50075, Stop: 49692, Start Num: 79
Candidate Starts for Iwokeuplikedis_92:
(Start: 79 @50075 has 7 MA's), (Start: 80 @50072 has 2 MA's), (Start: 93 @50051 has 8 MA's), (101, 49994), (110, 49940), (116, 49916), (117, 49913), (118, 49889), (123, 49853), (144, 49802),

Gene: Izel_146 Start: 74926, Stop: 74519, Start Num: 69
Candidate Starts for Izel_146:
(Start: 69 @74926 has 20 MA's), (107, 74800), (111, 74776), (116, 74755), (117, 74752), (127, 74677), (135, 74656), (152, 74572), (157, 74554),

Gene: JHC117_81 Start: 47781, Stop: 47398, Start Num: 91
Candidate Starts for JHC117_81:
(Start: 87 @47787 has 4 MA's), (Start: 89 @47784 has 34 MA's), (Start: 91 @47781 has 360 MA's), (98, 47739), (110, 47664), (111, 47661), (127, 47562), (136, 47532),

Gene: Jaan_87 Start: 50396, Stop: 50016, Start Num: 79
Candidate Starts for Jaan_87:
(Start: 61 @50438 has 1 MA's), (Start: 79 @50396 has 7 MA's), (Start: 93 @50375 has 8 MA's), (110, 50264), (117, 50237), (118, 50213), (123, 50177), (148, 50093), (161, 50030),

Gene: Jabith_91 Start: 48991, Stop: 48638, Start Num: 91
Candidate Starts for Jabith_91:
(Start: 86 @48994 has 1 MA's), (Start: 91 @48991 has 360 MA's), (101, 48946), (107, 48913), (110, 48892), (115, 48877), (118, 48841), (134, 48772), (144, 48748), (161, 48652),

Gene: Jaykayelowell_80 Start: 48409, Stop: 48056, Start Num: 91
Candidate Starts for Jaykayelowell_80:
(Start: 91 @48409 has 360 MA's), (Start: 99 @48373 has 1 MA's), (110, 48310), (132, 48193), (139, 48181), (159, 48085), (161, 48070),

Gene: Jeeves_90 Start: 48017, Stop: 47664, Start Num: 91
Candidate Starts for Jeeves_90:
(63, 48074), (67, 48065), (83, 48035), (Start: 91 @48017 has 360 MA's), (Start: 93 @48011 has 8 MA's), (94, 48005), (Start: 99 @47981 has 1 MA's), (110, 47918), (117, 47891), (118, 47867), (126, 47819), (127, 47816), (139, 47789), (159, 47693), (161, 47678),

Gene: Jeffabunny_81 Start: 44928, Stop: 44548, Start Num: 84
Candidate Starts for Jeffabunny_81:
(43, 45030), (Start: 84 @44928 has 71 MA's), (Start: 93 @44907 has 8 MA's), (Start: 99 @44862 has 1 MA's), (101, 44850), (110, 44796), (115, 44781), (116, 44772), (117, 44769), (123, 44709), (124, 44706), (151, 44616), (157, 44583),

Gene: JenCasNa_87 Start: 47781, Stop: 47398, Start Num: 91
Candidate Starts for JenCasNa_87:
(Start: 87 @47787 has 4 MA's), (Start: 91 @47781 has 360 MA's), (98, 47739), (110, 47664), (111, 47661), (127, 47562), (136, 47532),

Gene: JeppNRM_87 Start: 47829, Stop: 47440, Start Num: 91
Candidate Starts for JeppNRM_87:
(Start: 91 @47829 has 360 MA's), (110, 47712), (111, 47709), (127, 47610),

Gene: Jerm_90 Start: 49956, Stop: 49603, Start Num: 91
Candidate Starts for Jerm_90:
(Start: 91 @49956 has 360 MA's), (Start: 99 @49920 has 1 MA's), (111, 49854), (118, 49806), (132, 49740), (161, 49617),

Gene: JetBlade_84 Start: 48444, Stop: 48091, Start Num: 91
Candidate Starts for JetBlade_84:
(Start: 91 @48444 has 360 MA's), (Start: 99 @48408 has 1 MA's), (110, 48345), (132, 48228), (139, 48216), (159, 48120), (161, 48105),

Gene: JewelBug_83 Start: 46649, Stop: 46269, Start Num: 84
Candidate Starts for JewelBug_83:

(43, 46751), (Start: 84 @46649 has 71 MA's), (Start: 93 @46628 has 8 MA's), (Start: 99 @46583 has 1 MA's), (101, 46571), (110, 46517), (115, 46502), (116, 46493), (123, 46430), (124, 46427), (151, 46337), (157, 46304),

Gene: Jiawan_91 Start: 49556, Stop: 49203, Start Num: 91
Candidate Starts for Jiawan_91:
(Start: 91 @49556 has 360 MA's), (Start: 93 @49550 has 8 MA's), (Start: 99 @49520 has 1 MA's), (107, 49478), (110, 49457), (144, 49313), (161, 49217),

Gene: Jobu08_82 Start: 47605, Stop: 47222, Start Num: 91
Candidate Starts for Jobu08_82:
(33, 47764), (62, 47674), (64, 47665), (Start: 78 @47635 has 1 MA's), (Start: 87 @47611 has 4 MA's), (Start: 91 @47605 has 360 MA's), (Start: 93 @47599 has 8 MA's), (110, 47488), (111, 47485), (127, 47386), (136, 47356),

Gene: JoongJeon_82 Start: 48410, Stop: 48057, Start Num: 91
Candidate Starts for JoongJeon_82:
(Start: 91 @48410 has 360 MA's), (Start: 99 @48374 has 1 MA's), (110, 48311), (139, 48182), (144, 48167), (159, 48086), (161, 48071),

Gene: Jordennis_89 Start: 48553, Stop: 48173, Start Num: 84
Candidate Starts for Jordennis_89:
(43, 48655), (Start: 84 @48553 has 71 MA's), (Start: 93 @48532 has 8 MA's), (Start: 99 @48487 has 1 MA's), (101, 48475), (110, 48421), (115, 48406), (116, 48397), (123, 48334), (124, 48331), (151, 48241), (157, 48208),

Gene: Joselito_89 Start: 48697, Stop: 48344, Start Num: 91
Candidate Starts for Joselito_89:
(Start: 86 @48700 has 1 MA's), (Start: 91 @48697 has 360 MA's), (101, 48652), (107, 48619), (110, 48598), (115, 48583), (118, 48547), (134, 48478), (144, 48454), (161, 48358),

Gene: JoshKayV_91 Start: 50301, Stop: 49948, Start Num: 91
Candidate Starts for JoshKayV_91:
(18, 50547), (31, 50469), (46, 50403), (48, 50397), (Start: 91 @50301 has 360 MA's), (Start: 99 @50265 has 1 MA's), (111, 50199), (118, 50151), (161, 49962),

Gene: Journey13_72 Start: 44230, Stop: 43841, Start Num: 79
Candidate Starts for Journey13_72:
(Start: 71 @44248 has 13 MA's), (Start: 79 @44230 has 7 MA's), (Start: 93 @44200 has 8 MA's), (110, 44089), (116, 44065), (130, 43981), (161, 43855),

Gene: Jsquared_93 Start: 49313, Stop: 48933, Start Num: 84
Candidate Starts for Jsquared_93:
(Start: 84 @49313 has 71 MA's), (Start: 93 @49292 has 8 MA's), (104, 49226), (107, 49202), (110, 49181), (116, 49157), (123, 49094), (144, 49043), (161, 48947),

Gene: Junimo_79 Start: 48416, Stop: 48063, Start Num: 91
Candidate Starts for Junimo_79:
(Start: 91 @48416 has 360 MA's), (Start: 99 @48380 has 1 MA's), (110, 48317), (132, 48200), (139, 48188), (159, 48092), (161, 48077),

Gene: KADY_83 Start: 47813, Stop: 47430, Start Num: 91
Candidate Starts for KADY_83:

(Start: 87 @47819 has 4 MA's), (Start: 89 @47816 has 34 MA's), (Start: 91 @47813 has 360 MA's), (98, 47771), (110, 47696), (111, 47693), (127, 47594), (136, 47564),

Gene: KFPoly_82 Start: 48410, Stop: 48057, Start Num: 91
Candidate Starts for KFPoly_82:
(Start: 91 @48410 has 360 MA's), (Start: 99 @48374 has 1 MA's), (139, 48182), (144, 48167), (159, 48086), (161, 48071),

Gene: Kachowdy_87 Start: 47941, Stop: 47522, Start Num: 71
Candidate Starts for Kachowdy_87:
(29, 48067), (Start: 71 @47941 has 13 MA's), (Start: 84 @47911 has 71 MA's), (Start: 99 @47860 has 1 MA's), (118, 47746), (123, 47710), (156, 47575),

Gene: Kalb97_87 Start: 47197, Stop: 46808, Start Num: 91
Candidate Starts for Kalb97_87:
(Start: 91 @47197 has 360 MA's), (110, 47080), (111, 47077), (127, 46978),

Gene: Kalnoky_87 Start: 47824, Stop: 47435, Start Num: 91
Candidate Starts for Kalnoky_87:
(Start: 91 @47824 has 360 MA's), (110, 47707), (111, 47704), (127, 47605),

Gene: Kalpine_91 Start: 50068, Stop: 49712, Start Num: 91
Candidate Starts for Kalpine_91:
(Start: 91 @50068 has 360 MA's), (Start: 99 @50032 has 1 MA's), (107, 49990), (112, 49963), (118, 49915), (124, 49876), (132, 49849), (139, 49837), (159, 49741), (161, 49726),

Gene: Kampy_82 Start: 48419, Stop: 48066, Start Num: 91
Candidate Starts for Kampy_82:
(Start: 91 @48419 has 360 MA's), (Start: 99 @48383 has 1 MA's), (110, 48320), (132, 48203), (139, 48191), (144, 48176), (159, 48095), (161, 48080),

Gene: Katalie136_79 Start: 48034, Stop: 47681, Start Num: 91
Candidate Starts for Katalie136_79:
(Start: 91 @48034 has 360 MA's), (Start: 99 @47998 has 1 MA's), (110, 47935), (115, 47920), (117, 47908), (118, 47884), (126, 47836), (139, 47806), (159, 47710), (161, 47695),

Gene: Kazan_92 Start: 48319, Stop: 47939, Start Num: 84
Candidate Starts for Kazan_92:
(43, 48421), (Start: 84 @48319 has 71 MA's), (Start: 93 @48298 has 8 MA's), (Start: 99 @48253 has 1 MA's), (101, 48241), (110, 48187), (115, 48172), (116, 48163), (123, 48100), (124, 48097), (151, 48007), (157, 47974),

Gene: KekoraPapaka_80 Start: 48416, Stop: 48063, Start Num: 91
Candidate Starts for KekoraPapaka_80:
(Start: 91 @48416 has 360 MA's), (Start: 99 @48380 has 1 MA's), (110, 48317), (132, 48200), (139, 48188), (159, 48092), (161, 48077),

Gene: Kerberos_90 Start: 49529, Stop: 49149, Start Num: 84
Candidate Starts for Kerberos_90:
(Start: 84 @49529 has 71 MA's), (104, 49442), (116, 49373), (117, 49370), (118, 49346),

Gene: Keziacharles14_88 Start: 50027, Stop: 49674, Start Num: 91
Candidate Starts for Keziacharles14_88:

(Start: 91 @50027 has 360 MA's), (Start: 93 @50021 has 8 MA's), (Start: 99 @49991 has 1 MA's), (107, 49949), (110, 49928), (118, 49877), (127, 49826), (132, 49811), (144, 49784),

Gene: Kimba_88 Start: 48000, Stop: 47647, Start Num: 91
Candidate Starts for Kimba_88:
(Start: 86 @48003 has 1 MA's), (Start: 91 @48000 has 360 MA's), (101, 47955), (107, 47922), (110, 47901), (115, 47886), (118, 47850), (134, 47781), (144, 47757), (161, 47661),

Gene: Kimona_84 Start: 47534, Stop: 47076, Start Num: 72
Candidate Starts for Kimona_84:
(Start: 72 @47534 has 12 MA's), (Start: 84 @47507 has 71 MA's), (92, 47489), (104, 47438), (114, 47384), (117, 47366), (119, 47339), (124, 47303), (143, 47216), (145, 47195), (148, 47162), (155, 47138), (156, 47129), (157, 47126), (166, 47084),

Gene: KingCyrus_87 Start: 50958, Stop: 50605, Start Num: 91
Candidate Starts for KingCyrus_87:
(10, 51162), (11, 51159), (19, 51072), (24, 51039), (Start: 91 @50958 has 360 MA's), (Start: 99 @50922 has 1 MA's), (111, 50856), (118, 50808), (132, 50742), (161, 50619),

Gene: Kingmustik0402_83 Start: 48405, Stop: 48052, Start Num: 91
Candidate Starts for Kingmustik0402_83:
(Start: 91 @48405 has 360 MA's), (Start: 99 @48369 has 1 MA's), (110, 48306), (139, 48177), (144, 48162), (159, 48081), (161, 48066),

Gene: Kipper29_91 Start: 48328, Stop: 47948, Start Num: 84
Candidate Starts for Kipper29_91:
(43, 48430), (Start: 84 @48328 has 71 MA's), (Start: 93 @48307 has 8 MA's), (Start: 99 @48262 has 1 MA's), (101, 48250), (110, 48196), (115, 48181), (116, 48172), (123, 48109), (124, 48106), (151, 48016), (157, 47983),

Gene: KittenMittens_77 Start: 47234, Stop: 46827, Start Num: 73
Candidate Starts for KittenMittens_77:
(Start: 73 @47234 has 21 MA's), (Start: 84 @47210 has 71 MA's), (107, 47117), (110, 47096), (114, 47087), (117, 47069), (123, 47009), (128, 46994), (144, 46946), (152, 46895), (156, 46880),

Gene: KleverKiS_152 Start: 76926, Stop: 76519, Start Num: 69
Candidate Starts for KleverKiS_152:
(47, 76977), (Start: 69 @76926 has 20 MA's), (107, 76800), (111, 76776), (116, 76755), (117, 76752), (127, 76677), (135, 76656), (152, 76572), (157, 76554),

Gene: Klodlith_87 Start: 48937, Stop: 48584, Start Num: 91
Candidate Starts for Klodlith_87:
(45, 49039), (52, 49021), (Start: 91 @48937 has 360 MA's), (94, 48925), (Start: 99 @48901 has 1 MA's), (127, 48736), (132, 48721), (144, 48694), (161, 48598),

Gene: Koan_80 Start: 48416, Stop: 48063, Start Num: 91
Candidate Starts for Koan_80:
(Start: 91 @48416 has 360 MA's), (Start: 99 @48380 has 1 MA's), (110, 48317), (139, 48188), (144, 48173), (159, 48092), (161, 48077),

Gene: Koduck_89 Start: 48626, Stop: 48246, Start Num: 84
Candidate Starts for Koduck_89:

(Start: 80 @48632 has 2 MA's), (Start: 84 @48626 has 71 MA's), (101, 48548), (104, 48539), (116, 48470), (121, 48422), (138, 48368),

Gene: Koko_94 Start: 49174, Stop: 48794, Start Num: 84
Candidate Starts for Koko_94:
(43, 49276), (Start: 84 @49174 has 71 MA's), (Start: 93 @49153 has 8 MA's), (Start: 99 @49108 has 1 MA's), (101, 49096), (110, 49042), (115, 49027), (116, 49018), (117, 49015), (123, 48955), (124, 48952), (151, 48862), (157, 48829),

Gene: Koreni_82 Start: 48097, Stop: 47744, Start Num: 91
Candidate Starts for Koreni_82:
(Start: 91 @48097 has 360 MA's), (Start: 99 @48061 has 1 MA's), (110, 47998), (139, 47869), (144, 47854), (159, 47773), (161, 47758),

Gene: Kratark_82 Start: 48450, Stop: 48097, Start Num: 91
Candidate Starts for Kratark_82:
(Start: 91 @48450 has 360 MA's), (Start: 99 @48414 has 1 MA's), (126, 48252), (139, 48222), (144, 48207), (153, 48147), (159, 48126), (161, 48111),

Gene: Kremtemulon_80 Start: 48296, Stop: 47943, Start Num: 91
Candidate Starts for Kremtemulon_80:
(Start: 91 @48296 has 360 MA's), (Start: 99 @48260 has 1 MA's), (126, 48098), (139, 48068), (144, 48053), (153, 47993), (159, 47972), (161, 47957),

Gene: Kristoff_80 Start: 48502, Stop: 48095, Start Num: 73
Candidate Starts for Kristoff_80:
(26, 48640), (Start: 73 @48502 has 21 MA's), (Start: 84 @48478 has 71 MA's), (107, 48385), (110, 48364), (114, 48355), (117, 48337), (123, 48277), (124, 48274), (126, 48265), (128, 48262), (144, 48214), (156, 48148),

Gene: Kumao_107 Start: 64881, Stop: 64531, Start Num: 91
Candidate Starts for Kumao_107:
(65, 64935), (Start: 91 @64881 has 360 MA's), (Start: 93 @64875 has 8 MA's), (94, 64869), (110, 64782), (111, 64779), (117, 64755), (127, 64680), (144, 64638), (156, 64566), (161, 64542), (163, 64536),

Gene: Kyee_83 Start: 48411, Stop: 48058, Start Num: 91
Candidate Starts for Kyee_83:
(Start: 91 @48411 has 360 MA's), (Start: 99 @48375 has 1 MA's), (110, 48312), (132, 48195), (139, 48183), (159, 48087), (161, 48072),

Gene: L5_82 Start: 48517, Stop: 48137, Start Num: 82
Candidate Starts for L5_82:
(Start: 82 @48517 has 2 MA's), (101, 48439), (104, 48430), (116, 48361), (121, 48313), (138, 48259),

Gene: LBerry_87 Start: 47782, Stop: 47399, Start Num: 91
Candidate Starts for LBerry_87:
(33, 47941), (62, 47851), (64, 47842), (Start: 78 @47812 has 1 MA's), (Start: 87 @47788 has 4 MA's), (Start: 91 @47782 has 360 MA's), (Start: 93 @47776 has 8 MA's), (110, 47665), (111, 47662), (127, 47563), (136, 47533),

Gene: LHTSCC_85 Start: 48856, Stop: 48503, Start Num: 91
Candidate Starts for LHTSCC_85:

(Start: 91 @48856 has 360 MA's), (Start: 99 @48820 has 1 MA's), (139, 48628), (144, 48613), (159, 48532), (161, 48517),

Gene: LadyBird_92 Start: 50113, Stop: 49766, Start Num: 91
Candidate Starts for LadyBird_92:
(Start: 91 @50113 has 360 MA's), (Start: 99 @50077 has 1 MA's), (111, 50011), (118, 49963), (132, 49897), (161, 49780),

Gene: Lambert1_85 Start: 47637, Stop: 47212, Start Num: 68
Candidate Starts for Lambert1_85:
(35, 47727), (Start: 68 @47637 has 8 MA's), (Start: 72 @47628 has 12 MA's), (Start: 84 @47601 has 71 MA's), (107, 47508), (152, 47280), (156, 47265),

Gene: Landor_86 Start: 50312, Stop: 49932, Start Num: 80
Candidate Starts for Landor_86:
(Start: 61 @50354 has 1 MA's), (Start: 80 @50312 has 2 MA's), (Start: 93 @50291 has 8 MA's), (101, 50234), (110, 50180), (116, 50156), (117, 50153), (118, 50129), (123, 50093), (161, 49946),

Gene: LappelDuVide_83 Start: 48416, Stop: 48063, Start Num: 91
Candidate Starts for LappelDuVide_83:
(Start: 91 @48416 has 360 MA's), (Start: 99 @48380 has 1 MA's), (139, 48188), (144, 48173), (159, 48092), (161, 48077),

Gene: Larenn_87 Start: 49449, Stop: 49096, Start Num: 91
Candidate Starts for Larenn_87:
(Start: 91 @49449 has 360 MA's), (Start: 93 @49443 has 8 MA's), (Start: 99 @49413 has 1 MA's), (111, 49347), (118, 49299), (144, 49206), (161, 49110),

Gene: LarryKay_86 Start: 47817, Stop: 47434, Start Num: 91
Candidate Starts for LarryKay_86:
(Start: 87 @47823 has 4 MA's), (Start: 89 @47820 has 34 MA's), (Start: 91 @47817 has 360 MA's), (98, 47775), (110, 47700), (111, 47697), (127, 47598), (136, 47568),

Gene: Lemur_83 Start: 48413, Stop: 48060, Start Num: 91
Candidate Starts for Lemur_83:
(Start: 91 @48413 has 360 MA's), (Start: 99 @48377 has 1 MA's), (110, 48314), (132, 48197), (139, 48185), (159, 48089), (161, 48074),

Gene: Leviathan_90 Start: 50037, Stop: 49684, Start Num: 91
Candidate Starts for Leviathan_90:
(24, 50118), (Start: 91 @50037 has 360 MA's), (Start: 99 @50001 has 1 MA's), (111, 49935), (118, 49887), (132, 49821), (161, 49698),

Gene: Lika_66 Start: 46143, Stop: 45772, Start Num: 89
Candidate Starts for Lika_66:
(56, 46218), (Start: 89 @46143 has 34 MA's), (Start: 103 @46083 has 1 MA's), (109, 46044), (120, 45969), (124, 45945), (126, 45936), (148, 45849), (152, 45825), (158, 45804),

Gene: LilTurb_89 Start: 49833, Stop: 49480, Start Num: 91
Candidate Starts for LilTurb_89:
(46, 49935), (48, 49929), (Start: 91 @49833 has 360 MA's), (Start: 99 @49797 has 1 MA's), (111, 49731), (118, 49683), (132, 49617), (161, 49494),

Gene: Lilbunny_89 Start: 47032, Stop: 46652, Start Num: 84
Candidate Starts for Lilbunny_89:
(43, 47134), (Start: 84 @47032 has 71 MA's), (Start: 93 @47011 has 8 MA's), (Start: 99 @46966 has 1 MA's), (101, 46954), (110, 46900), (115, 46885), (116, 46876), (117, 46873), (123, 46813), (124, 46810), (151, 46720), (157, 46687),

Gene: LilhomieP_146 Start: 75956, Stop: 75549, Start Num: 69
Candidate Starts for LilhomieP_146:
(Start: 69 @75956 has 20 MA's), (107, 75830), (111, 75806), (116, 75785), (117, 75782), (127, 75707), (135, 75686), (152, 75602), (157, 75584),

Gene: Lilith_84 Start: 47771, Stop: 47388, Start Num: 91
Candidate Starts for Lilith_84:
(33, 47930), (62, 47840), (64, 47831), (Start: 78 @47801 has 1 MA's), (Start: 87 @47777 has 4 MA's), (Start: 91 @47771 has 360 MA's), (Start: 93 @47765 has 8 MA's), (110, 47654), (111, 47651), (127, 47552), (136, 47522),

Gene: Lilleskat_91 Start: 49527, Stop: 49174, Start Num: 91
Candidate Starts for Lilleskat_91:
(Start: 91 @49527 has 360 MA's), (Start: 93 @49521 has 8 MA's), (Start: 99 @49491 has 1 MA's), (107, 49449), (110, 49428), (144, 49284), (161, 49188),

Gene: LionsBait_86 Start: 50433, Stop: 50077, Start Num: 91
Candidate Starts for LionsBait_86:
(Start: 91 @50433 has 360 MA's), (Start: 99 @50397 has 1 MA's), (112, 50328), (118, 50280), (139, 50202), (159, 50106), (161, 50091),

Gene: LittleB_83 Start: 48417, Stop: 48064, Start Num: 91
Candidate Starts for LittleB_83:
(Start: 91 @48417 has 360 MA's), (Start: 99 @48381 has 1 MA's), (110, 48318), (132, 48201), (139, 48189), (159, 48093), (161, 48078),

Gene: LittleGuy_83 Start: 48307, Stop: 47954, Start Num: 91
Candidate Starts for LittleGuy_83:
(Start: 91 @48307 has 360 MA's), (Start: 99 @48271 has 1 MA's), (139, 48079), (144, 48064), (159, 47983), (161, 47968),

Gene: LochMonster_84 Start: 48653, Stop: 48300, Start Num: 91
Candidate Starts for LochMonster_84:
(Start: 91 @48653 has 360 MA's), (Start: 99 @48617 has 1 MA's), (110, 48554), (132, 48437), (139, 48425), (159, 48329), (161, 48314),

Gene: Lokk_84 Start: 47977, Stop: 47624, Start Num: 91
Candidate Starts for Lokk_84:
(Start: 91 @47977 has 360 MA's), (Start: 99 @47941 has 1 MA's), (111, 47875), (118, 47827), (132, 47761), (161, 47638),

Gene: LoneWolf_91 Start: 49562, Stop: 49209, Start Num: 90
Candidate Starts for LoneWolf_91:
(Start: 90 @49562 has 1 MA's), (Start: 99 @49526 has 1 MA's), (110, 49463), (118, 49412), (144, 49319), (161, 49223),

Gene: Lorelei_66 Start: 45450, Stop: 45079, Start Num: 89

Candidate Starts for Lorelei_66:
(Start: 89 @45450 has 34 MA's), (96, 45423), (Start: 103 @45390 has 1 MA's), (109, 45351), (115, 45327), (120, 45276), (122, 45267), (124, 45252), (126, 45243), (148, 45156), (152, 45132), (158, 45111),

Gene: Lorenzo_83 Start: 48414, Stop: 48061, Start Num: 91
Candidate Starts for Lorenzo_83:
(Start: 91 @48414 has 360 MA's), (Start: 99 @48378 has 1 MA's), (110, 48315), (139, 48186), (144, 48171), (159, 48090), (161, 48075),

Gene: Loser_91 Start: 50233, Stop: 49880, Start Num: 44
Candidate Starts for Loser_91:
(Start: 44 @50233 has 3 MA's), (Start: 99 @50197 has 1 MA's), (111, 50131), (115, 50119), (118, 50083), (132, 50017), (134, 50014), (144, 49990), (161, 49894),

Gene: Louie6_85 Start: 47814, Stop: 47431, Start Num: 91
Candidate Starts for Louie6_85:
(Start: 87 @47820 has 4 MA's), (Start: 89 @47817 has 34 MA's), (Start: 91 @47814 has 360 MA's), (110, 47697), (111, 47694), (127, 47595), (136, 47565),

Gene: Lowa_86 Start: 47770, Stop: 47387, Start Num: 91
Candidate Starts for Lowa_86:
(33, 47929), (62, 47839), (64, 47830), (Start: 78 @47800 has 1 MA's), (Start: 87 @47776 has 4 MA's), (Start: 91 @47770 has 360 MA's), (Start: 93 @47764 has 8 MA's), (110, 47653), (111, 47650), (127, 47551), (136, 47521),

Gene: Luchador_87 Start: 49118, Stop: 48765, Start Num: 91
Candidate Starts for Luchador_87:
(63, 49175), (83, 49136), (Start: 91 @49118 has 360 MA's), (Start: 93 @49112 has 8 MA's), (94, 49106), (Start: 99 @49082 has 1 MA's), (110, 49019), (117, 48992), (118, 48968), (126, 48920), (127, 48917), (139, 48890), (159, 48794), (161, 48779),

Gene: Lucivia_92 Start: 48976, Stop: 48623, Start Num: 91
Candidate Starts for Lucivia_92:
(Start: 86 @48979 has 1 MA's), (Start: 91 @48976 has 360 MA's), (101, 48931), (107, 48898), (110, 48877), (115, 48862), (118, 48826), (134, 48757), (144, 48733), (161, 48637),

Gene: LugYA_89 Start: 47782, Stop: 47399, Start Num: 91
Candidate Starts for LugYA_89:
(Start: 87 @47788 has 4 MA's), (Start: 91 @47782 has 360 MA's), (98, 47740), (110, 47665), (111, 47662), (127, 47563), (136, 47533),

Gene: Lunsford_83 Start: 48409, Stop: 48056, Start Num: 91
Candidate Starts for Lunsford_83:
(Start: 91 @48409 has 360 MA's), (Start: 99 @48373 has 1 MA's), (110, 48310), (132, 48193), (139, 48181), (159, 48085), (161, 48070),

Gene: MaCh_91 Start: 48940, Stop: 48587, Start Num: 91
Candidate Starts for MaCh_91:
(Start: 86 @48943 has 1 MA's), (Start: 91 @48940 has 360 MA's), (101, 48895), (107, 48862), (110, 48841), (115, 48826), (118, 48790), (134, 48721), (144, 48697), (161, 48601),

Gene: Mabel_91 Start: 48941, Stop: 48588, Start Num: 91

Candidate Starts for Mabel_91:
(Start: 86 @48944 has 1 MA's), (Start: 91 @48941 has 360 MA's), (101, 48896), (107, 48863), (110, 48842), (115, 48827), (118, 48791), (134, 48722), (144, 48698), (161, 48602),

Gene: MadMarie_84 Start: 47779, Stop: 47396, Start Num: 91
Candidate Starts for MadMarie_84:
(33, 47938), (62, 47848), (64, 47839), (Start: 78 @47809 has 1 MA's), (Start: 87 @47785 has 4 MA's), (Start: 91 @47779 has 360 MA's), (Start: 93 @47773 has 8 MA's), (110, 47662), (111, 47659), (127, 47560), (136, 47530),

Gene: Mainiac_85 Start: 47771, Stop: 47388, Start Num: 91
Candidate Starts for Mainiac_85:
(33, 47930), (62, 47840), (64, 47831), (Start: 78 @47801 has 1 MA's), (Start: 87 @47777 has 4 MA's), (Start: 91 @47771 has 360 MA's), (Start: 93 @47765 has 8 MA's), (110, 47654), (111, 47651), (127, 47552), (136, 47522),

Gene: MajorMajor_86 Start: 47362, Stop: 46982, Start Num: 84
Candidate Starts for MajorMajor_86:
(Start: 84 @47362 has 71 MA's), (Start: 93 @47341 has 8 MA's), (104, 47275), (107, 47251), (110, 47230), (116, 47206), (117, 47203), (123, 47143), (144, 47092), (161, 46996),

Gene: Malec_87 Start: 49857, Stop: 49504, Start Num: 91
Candidate Starts for Malec_87:
(Start: 91 @49857 has 360 MA's), (Start: 93 @49851 has 8 MA's), (Start: 99 @49821 has 1 MA's), (111, 49755), (118, 49707), (144, 49614), (161, 49518),

Gene: Malinsilva_89 Start: 47770, Stop: 47387, Start Num: 91
Candidate Starts for Malinsilva_89:
(33, 47929), (62, 47839), (64, 47830), (Start: 78 @47800 has 1 MA's), (Start: 87 @47776 has 4 MA's), (Start: 91 @47770 has 360 MA's), (Start: 93 @47764 has 8 MA's), (110, 47653), (111, 47650), (127, 47551), (136, 47521),

Gene: Maminiaina_90 Start: 49496, Stop: 49143, Start Num: 91
Candidate Starts for Maminiaina_90:
(Start: 91 @49496 has 360 MA's), (Start: 99 @49460 has 1 MA's), (107, 49418), (110, 49397), (144, 49253), (161, 49157),

Gene: Maneekul_64 Start: 46485, Stop: 46114, Start Num: 89
Candidate Starts for Maneekul_64:
(56, 46560), (Start: 89 @46485 has 34 MA's), (97, 46449), (Start: 103 @46425 has 1 MA's), (109, 46386), (120, 46311), (124, 46287), (126, 46278), (148, 46191), (152, 46167), (158, 46146),

Gene: Manu_86 Start: 47831, Stop: 47442, Start Num: 91
Candidate Starts for Manu_86:
(Start: 91 @47831 has 360 MA's), (110, 47714), (111, 47711), (127, 47612),

Gene: MarQuardt_86 Start: 47785, Stop: 47402, Start Num: 91
Candidate Starts for MarQuardt_86:
(Start: 87 @47791 has 4 MA's), (Start: 89 @47788 has 34 MA's), (Start: 91 @47785 has 360 MA's), (98, 47743), (110, 47668), (111, 47665), (127, 47566), (136, 47536),

Gene: Marchesa_85 Start: 47803, Stop: 47384, Start Num: 71
Candidate Starts for Marchesa_85:

(29, 47929), (Start: 71 @47803 has 13 MA's), (Start: 84 @47773 has 71 MA's), (Start: 99 @47722 has 1 MA's), (118, 47608), (123, 47572), (156, 47437),

Gene: Margo_85 Start: 47653, Stop: 47237, Start Num: 72
Candidate Starts for Margo_85:
(35, 47752), (Start: 68 @47662 has 8 MA's), (Start: 72 @47653 has 12 MA's), (Start: 84 @47626 has 71 MA's), (107, 47533), (152, 47305), (156, 47290),

Gene: Marie_84 Start: 47781, Stop: 47398, Start Num: 91
Candidate Starts for Marie_84:
(Start: 87 @47787 has 4 MA's), (Start: 91 @47781 has 360 MA's), (98, 47739), (110, 47664), (111, 47661), (127, 47562), (136, 47532),

Gene: Marius_87 Start: 47824, Stop: 47435, Start Num: 91
Candidate Starts for Marius_87:
(Start: 91 @47824 has 360 MA's), (110, 47707), (111, 47704), (127, 47605),

Gene: Maverick_82 Start: 48413, Stop: 48060, Start Num: 91
Candidate Starts for Maverick_82:
(Start: 91 @48413 has 360 MA's), (Start: 99 @48377 has 1 MA's), (110, 48314), (139, 48185), (144, 48170), (159, 48089), (161, 48074),

Gene: Maxo_85 Start: 48419, Stop: 48066, Start Num: 91
Candidate Starts for Maxo_85:
(Start: 91 @48419 has 360 MA's), (Start: 99 @48383 has 1 MA's), (110, 48320), (132, 48203), (139, 48191), (144, 48176), (159, 48095), (161, 48080),

Gene: Mazhar510_83 Start: 48414, Stop: 48061, Start Num: 91
Candidate Starts for Mazhar510_83:
(Start: 91 @48414 has 360 MA's), (Start: 99 @48378 has 1 MA's), (110, 48315), (139, 48186), (144, 48171), (159, 48090), (161, 48075),

Gene: McFly_91 Start: 48658, Stop: 48278, Start Num: 84
Candidate Starts for McFly_91:
(43, 48760), (Start: 84 @48658 has 71 MA's), (Start: 93 @48637 has 8 MA's), (Start: 99 @48592 has 1 MA's), (101, 48580), (110, 48526), (115, 48511), (116, 48502), (123, 48439), (124, 48436), (151, 48346), (157, 48313),

Gene: Medusa_82 Start: 48429, Stop: 48076, Start Num: 91
Candidate Starts for Medusa_82:
(Start: 91 @48429 has 360 MA's), (Start: 99 @48393 has 1 MA's), (139, 48201), (144, 48186), (159, 48105), (161, 48090),

Gene: MeeZee_82 Start: 48410, Stop: 48057, Start Num: 91
Candidate Starts for MeeZee_82:
(Start: 91 @48410 has 360 MA's), (Start: 99 @48374 has 1 MA's), (132, 48194), (139, 48182), (144, 48167), (159, 48086), (161, 48071),

Gene: MegTheThird_87 Start: 48933, Stop: 48580, Start Num: 91
Candidate Starts for MegTheThird_87:
(Start: 91 @48933 has 360 MA's), (Start: 93 @48927 has 8 MA's), (94, 48921), (118, 48783), (127, 48732), (132, 48717), (159, 48609), (161, 48594),

Gene: Melvin_85 Start: 48411, Stop: 48058, Start Num: 91
Candidate Starts for Melvin_85:
(Start: 91 @48411 has 360 MA's), (Start: 99 @48375 has 1 MA's), (110, 48312), (139, 48183), (144, 48168), (159, 48087), (161, 48072),

Gene: Methuselah_79 Start: 47807, Stop: 47424, Start Num: 91
Candidate Starts for Methuselah_79:
(Start: 87 @47813 has 4 MA's), (Start: 89 @47810 has 34 MA's), (Start: 91 @47807 has 360 MA's), (98, 47765), (110, 47690), (111, 47687), (127, 47588), (136, 47558),

Gene: Microwolf_82 Start: 47794, Stop: 47411, Start Num: 91
Candidate Starts for Microwolf_82:
(33, 47953), (62, 47863), (64, 47854), (Start: 78 @47824 has 1 MA's), (Start: 87 @47800 has 4 MA's), (Start: 91 @47794 has 360 MA's), (Start: 93 @47788 has 8 MA's), (110, 47677), (111, 47674), (127, 47575), (136, 47545),

Gene: MiculUcigas_88 Start: 48982, Stop: 48629, Start Num: 91
Candidate Starts for MiculUcigas_88:
(46, 49084), (48, 49078), (Start: 91 @48982 has 360 MA's), (Start: 99 @48946 has 1 MA's), (111, 48880), (118, 48832), (132, 48766), (144, 48739), (161, 48643),

Gene: Miko_85 Start: 48834, Stop: 48481, Start Num: 91
Candidate Starts for Miko_85:
(Start: 91 @48834 has 360 MA's), (Start: 99 @48798 has 1 MA's), (111, 48732), (118, 48684), (132, 48618), (161, 48495),

Gene: Millski_82 Start: 48417, Stop: 48064, Start Num: 91
Candidate Starts for Millski_82:
(Start: 91 @48417 has 360 MA's), (Start: 99 @48381 has 1 MA's), (132, 48201), (139, 48189), (144, 48174), (159, 48093), (161, 48078),

Gene: Minispark_88 Start: 48977, Stop: 48624, Start Num: 91
Candidate Starts for Minispark_88:
(Start: 91 @48977 has 360 MA's), (Start: 99 @48941 has 1 MA's), (107, 48899), (124, 48788), (132, 48761), (161, 48638),

Gene: Miramae_83 Start: 48332, Stop: 47979, Start Num: 91
Candidate Starts for Miramae_83:
(Start: 91 @48332 has 360 MA's), (Start: 99 @48296 has 1 MA's), (110, 48233), (118, 48182), (126, 48134), (127, 48131), (132, 48116), (139, 48104), (159, 48008), (161, 47993),

Gene: Misomonster_82 Start: 45419, Stop: 45036, Start Num: 91
Candidate Starts for Misomonster_82:
(Start: 87 @45425 has 4 MA's), (Start: 89 @45422 has 34 MA's), (Start: 91 @45419 has 360 MA's), (98, 45377), (110, 45302), (111, 45299), (127, 45200), (136, 45170),

Gene: MissWhite_83 Start: 46326, Stop: 45973, Start Num: 91
Candidate Starts for MissWhite_83:
(41, 46449), (Start: 72 @46368 has 12 MA's), (Start: 91 @46326 has 360 MA's), (Start: 99 @46290 has 1 MA's), (108, 46245), (111, 46224), (113, 46221), (115, 46212), (118, 46176), (123, 46140), (161, 45987),

Gene: MoneyMay_86 Start: 47781, Stop: 47398, Start Num: 91

Candidate Starts for MoneyMay_86:
(Start: 87 @47787 has 4 MA's), (Start: 91 @47781 has 360 MA's), (98, 47739), (110, 47664), (111, 47661), (127, 47562), (136, 47532),

Gene: Montavir_81 Start: 47783, Stop: 47400, Start Num: 91
Candidate Starts for Montavir_81:
(Start: 87 @47789 has 4 MA's), (Start: 89 @47786 has 34 MA's), (Start: 91 @47783 has 360 MA's), (98, 47741), (110, 47666), (111, 47663), (127, 47564), (136, 47534),

Gene: Morpher26_79 Start: 48055, Stop: 47702, Start Num: 91
Candidate Starts for Morpher26_79:
(Start: 91 @48055 has 360 MA's), (Start: 99 @48019 has 1 MA's), (110, 47956), (115, 47941), (117, 47929), (118, 47905), (126, 47857), (139, 47827), (159, 47731), (161, 47716),

Gene: Morrow_85 Start: 48456, Stop: 48103, Start Num: 91
Candidate Starts for Morrow_85:
(Start: 91 @48456 has 360 MA's), (Start: 99 @48420 has 1 MA's), (139, 48228), (144, 48213), (159, 48132), (161, 48117),

Gene: MrMagoo_167 Start: 79054, Stop: 78647, Start Num: 69
Candidate Starts for MrMagoo_167:
(38, 79135), (47, 79105), (Start: 69 @79054 has 20 MA's), (Start: 93 @79000 has 8 MA's), (102, 78958), (107, 78928), (110, 78907), (111, 78904), (113, 78901), (126, 78808), (127, 78805), (152, 78700),

Gene: Mulciber_90 Start: 48796, Stop: 48443, Start Num: 91
Candidate Starts for Mulciber_90:
(Start: 86 @48799 has 1 MA's), (Start: 91 @48796 has 360 MA's), (101, 48751), (107, 48718), (110, 48697), (115, 48682), (118, 48646), (134, 48577), (144, 48553), (161, 48457),

Gene: Munch_90 Start: 48945, Stop: 48592, Start Num: 91
Candidate Starts for Munch_90:
(Start: 86 @48948 has 1 MA's), (Start: 91 @48945 has 360 MA's), (101, 48900), (107, 48867), (110, 48846), (115, 48831), (118, 48795), (134, 48726), (144, 48702), (161, 48606),

Gene: Mundrea_81 Start: 48294, Stop: 47941, Start Num: 91
Candidate Starts for Mundrea_81:
(Start: 91 @48294 has 360 MA's), (Start: 99 @48258 has 1 MA's), (104, 48240), (110, 48195), (118, 48144), (126, 48096), (132, 48078), (139, 48066), (159, 47970), (161, 47955),

Gene: Myxus_91 Start: 49573, Stop: 49220, Start Num: 91
Candidate Starts for Myxus_91:
(Start: 91 @49573 has 360 MA's), (Start: 93 @49567 has 8 MA's), (Start: 99 @49537 has 1 MA's), (107, 49495), (110, 49474), (144, 49330), (161, 49234),

Gene: NaSiaTalie_89 Start: 49263, Stop: 48916, Start Num: 91
Candidate Starts for NaSiaTalie_89:
(46, 49365), (48, 49359), (Start: 91 @49263 has 360 MA's), (Start: 99 @49227 has 1 MA's), (111, 49161), (118, 49113), (132, 49047), (144, 49026), (161, 48930),

Gene: Nabi_67 Start: 46021, Stop: 45650, Start Num: 89
Candidate Starts for Nabi_67:

(Start: 89 @46021 has 34 MA's), (96, 45994), (Start: 103 @45961 has 1 MA's), (109, 45922), (115, 45898), (120, 45847), (122, 45838), (124, 45823), (126, 45814), (148, 45727), (152, 45703), (158, 45682),

Gene: Nanosmite_164 Start: 78507, Stop: 78100, Start Num: 69
Candidate Starts for Nanosmite_164:
(Start: 69 @78507 has 20 MA's), (Start: 93 @78453 has 8 MA's), (107, 78381), (111, 78357), (123, 78273), (135, 78237), (140, 78228), (152, 78153), (156, 78138),

Gene: Nebs_84 Start: 48456, Stop: 48103, Start Num: 91
Candidate Starts for Nebs_84:
(Start: 91 @48456 has 360 MA's), (Start: 99 @48420 has 1 MA's), (110, 48357), (132, 48240), (139, 48228), (159, 48132), (161, 48117),

Gene: Neeharika16_90 Start: 48415, Stop: 48035, Start Num: 84
Candidate Starts for Neeharika16_90:
(43, 48517), (Start: 84 @48415 has 71 MA's), (Start: 93 @48394 has 8 MA's), (Start: 99 @48349 has 1 MA's), (101, 48337), (110, 48283), (115, 48268), (116, 48259), (123, 48196), (124, 48193), (151, 48103), (157, 48070),

Gene: Nemo27_82 Start: 48412, Stop: 48059, Start Num: 91
Candidate Starts for Nemo27_82:
(Start: 91 @48412 has 360 MA's), (Start: 99 @48376 has 1 MA's), (110, 48313), (139, 48184), (144, 48169), (159, 48088), (161, 48073),

Gene: Newrala_90 Start: 48761, Stop: 48381, Start Num: 84
Candidate Starts for Newrala_90:
(43, 48863), (Start: 84 @48761 has 71 MA's), (Start: 93 @48740 has 8 MA's), (Start: 99 @48695 has 1 MA's), (101, 48683), (110, 48629), (115, 48614), (116, 48605), (123, 48542), (124, 48539), (151, 48449), (157, 48416),

Gene: NicoleTera_87 Start: 49416, Stop: 49063, Start Num: 91
Candidate Starts for NicoleTera_87:
(42, 49518), (46, 49500), (58, 49491), (Start: 91 @49416 has 360 MA's), (Start: 99 @49380 has 1 MA's), (111, 49314), (118, 49266), (127, 49215), (132, 49200), (144, 49173), (161, 49077),

Gene: Nishikigoi_74 Start: 46686, Stop: 46306, Start Num: 85
Candidate Starts for Nishikigoi_74:
(3, 47055), (4, 47007), (5, 47004), (6, 46995), (8, 46989), (9, 46983), (Start: 85 @46686 has 4 MA's), (Start: 89 @46677 has 34 MA's), (100, 46632), (Start: 103 @46623 has 1 MA's), (110, 46578), (120, 46509), (122, 46500), (123, 46488), (129, 46461), (148, 46383), (152, 46359), (161, 46320),

Gene: Noella_86 Start: 47638, Stop: 47213, Start Num: 68
Candidate Starts for Noella_86:
(35, 47728), (Start: 68 @47638 has 8 MA's), (Start: 72 @47629 has 12 MA's), (Start: 84 @47602 has 71 MA's), (107, 47509), (152, 47281), (156, 47266),

Gene: Noelle_80 Start: 48261, Stop: 47908, Start Num: 91
Candidate Starts for Noelle_80:
(Start: 91 @48261 has 360 MA's), (Start: 99 @48225 has 1 MA's), (110, 48162), (118, 48111), (126, 48063), (127, 48060), (139, 48033), (159, 47937), (161, 47922),

Gene: Norbert_81 Start: 47635, Stop: 47210, Start Num: 68

Candidate Starts for Norbert_81:
(35, 47725), (Start: 68 @47635 has 8 MA's), (Start: 72 @47626 has 12 MA's), (Start: 84 @47599 has 71 MA's), (107, 47506), (152, 47278), (156, 47263),

Gene: NorthStar_80 Start: 48416, Stop: 48063, Start Num: 91
Candidate Starts for NorthStar_80:
(Start: 91 @48416 has 360 MA's), (Start: 99 @48380 has 1 MA's), (110, 48317), (132, 48200), (139, 48188), (159, 48092), (161, 48077),

Gene: Northrop_80 Start: 48412, Stop: 48059, Start Num: 91
Candidate Starts for Northrop_80:
(Start: 91 @48412 has 360 MA's), (Start: 99 @48376 has 1 MA's), (110, 48313), (132, 48196), (139, 48184), (159, 48088), (161, 48073),

Gene: NotAPhaseMom_82 Start: 48417, Stop: 48064, Start Num: 91
Candidate Starts for NotAPhaseMom_82:
(Start: 91 @48417 has 360 MA's), (Start: 99 @48381 has 1 MA's), (110, 48318), (139, 48189), (144, 48174), (159, 48093), (161, 48078),

Gene: NothingSpecial_83 Start: 49297, Stop: 48917, Start Num: 84
Candidate Starts for NothingSpecial_83:
(Start: 84 @49297 has 71 MA's), (Start: 93 @49276 has 8 MA's), (110, 49165), (111, 49162), (117, 49138), (118, 49114), (123, 49078),

Gene: Nyxis_82 Start: 48301, Stop: 47948, Start Num: 91
Candidate Starts for Nyxis_82:
(Start: 91 @48301 has 360 MA's), (Start: 99 @48265 has 1 MA's), (110, 48202), (139, 48073), (144, 48058), (159, 47977), (161, 47962),

Gene: OKCentral2016_81 Start: 47305, Stop: 46898, Start Num: 73
Candidate Starts for OKCentral2016_81:
(Start: 73 @47305 has 21 MA's), (Start: 84 @47281 has 71 MA's), (107, 47188), (110, 47167), (114, 47158), (117, 47140), (123, 47080), (128, 47065), (156, 46951),

Gene: OKaNui_82 Start: 48467, Stop: 48114, Start Num: 91
Candidate Starts for OKaNui_82:
(Start: 91 @48467 has 360 MA's), (Start: 99 @48431 has 1 MA's), (139, 48239), (144, 48224), (159, 48143), (161, 48128),

Gene: Obama12_84 Start: 48840, Stop: 48487, Start Num: 91
Candidate Starts for Obama12_84:
(Start: 91 @48840 has 360 MA's), (Start: 99 @48804 has 1 MA's), (139, 48612), (144, 48597), (159, 48516), (161, 48501),

Gene: Odin_88 Start: 49191, Stop: 48811, Start Num: 84
Candidate Starts for Odin_88:
(14, 49443), (Start: 84 @49191 has 71 MA's), (Start: 93 @49170 has 8 MA's), (110, 49059), (113, 49053), (116, 49035), (121, 48987), (138, 48933),

Gene: Ohfah_84 Start: 48456, Stop: 48103, Start Num: 91
Candidate Starts for Ohfah_84:
(Start: 91 @48456 has 360 MA's), (Start: 99 @48420 has 1 MA's), (110, 48357), (132, 48240), (139, 48228), (159, 48132), (161, 48117),

Gene: OlanP_85 Start: 48002, Stop: 47613, Start Num: 91
Candidate Starts for OlanP_85:
(Start: 91 @48002 has 360 MA's), (110, 47885), (111, 47882), (127, 47783), (136, 47753),

Gene: Ollie_86 Start: 47649, Stop: 47266, Start Num: 91
Candidate Starts for Ollie_86:
(33, 47808), (62, 47718), (64, 47709), (Start: 78 @47679 has 1 MA's), (Start: 87 @47655 has 4 MA's), (Start: 91 @47649 has 360 MA's), (Start: 93 @47643 has 8 MA's), (110, 47532), (111, 47529), (127, 47430), (136, 47400),

Gene: Onglai_90 Start: 47728, Stop: 47375, Start Num: 91
Candidate Starts for Onglai_90:
(Start: 91 @47728 has 360 MA's), (Start: 93 @47722 has 8 MA's), (Start: 99 @47692 has 1 MA's), (107, 47650), (110, 47629), (144, 47485), (161, 47389),

Gene: Orange_91 Start: 48495, Stop: 48142, Start Num: 91
Candidate Starts for Orange_91:
(Start: 86 @48498 has 1 MA's), (Start: 91 @48495 has 360 MA's), (101, 48450), (107, 48417), (110, 48396), (115, 48381), (118, 48345), (134, 48276), (144, 48252), (161, 48156),

Gene: OzzyJ_66 Start: 46380, Stop: 46009, Start Num: 89
Candidate Starts for OzzyJ_66:
(Start: 89 @46380 has 34 MA's), (Start: 103 @46320 has 1 MA's), (109, 46281), (120, 46206), (124, 46182), (126, 46173), (148, 46086), (152, 46062), (158, 46041),

Gene: P28Green_86 Start: 47789, Stop: 47406, Start Num: 91
Candidate Starts for P28Green_86:
(Start: 87 @47795 has 4 MA's), (Start: 89 @47792 has 34 MA's), (Start: 91 @47789 has 360 MA's), (98, 47747), (110, 47672), (111, 47669), (127, 47570), (136, 47540),

Gene: PGHhamlin_88 Start: 47770, Stop: 47387, Start Num: 91
Candidate Starts for PGHhamlin_88:
(33, 47929), (62, 47839), (64, 47830), (Start: 78 @47800 has 1 MA's), (Start: 87 @47776 has 4 MA's), (Start: 91 @47770 has 360 MA's), (Start: 93 @47764 has 8 MA's), (110, 47653), (111, 47650), (127, 47551), (136, 47521),

Gene: PP_01 Start: 413, Stop: 3, Start Num: 72
Candidate Starts for PP_01:
(40, 497), (Start: 72 @413 has 12 MA's), (Start: 84 @389 has 71 MA's), (94, 362), (104, 320), (111, 272), (117, 248), (119, 221), (123, 188), (126, 176), (152, 71), (165, 20),

Gene: PackMan_86 Start: 47487, Stop: 47134, Start Num: 91
Candidate Starts for PackMan_86:
(Start: 91 @47487 has 360 MA's), (Start: 93 @47481 has 8 MA's), (Start: 99 @47451 has 1 MA's), (107, 47409), (110, 47388), (144, 47244), (161, 47148),

Gene: Palestino_82 Start: 48413, Stop: 48060, Start Num: 91
Candidate Starts for Palestino_82:
(Start: 91 @48413 has 360 MA's), (Start: 99 @48377 has 1 MA's), (110, 48314), (139, 48185), (144, 48170), (159, 48089), (161, 48074),

Gene: Panamaxus_81 Start: 47628, Stop: 47212, Start Num: 72

Candidate Starts for Panamaxus_81:
(35, 47727), (Start: 68 @47637 has 8 MA's), (Start: 72 @47628 has 12 MA's), (Start: 84 @47601 has 71 MA's), (107, 47508), (152, 47280), (156, 47265),

Gene: Pawn_85 Start: 47831, Stop: 47442, Start Num: 91
Candidate Starts for Pawn_85:
(Start: 91 @47831 has 360 MA's), (110, 47714), (111, 47711), (127, 47612),

Gene: PeaceMeal1_79 Start: 47235, Stop: 46828, Start Num: 73
Candidate Starts for PeaceMeal1_79:
(Start: 73 @47235 has 21 MA's), (Start: 84 @47211 has 71 MA's), (107, 47118), (110, 47097), (114, 47088), (117, 47070), (123, 47010), (128, 46995), (144, 46947), (152, 46896), (156, 46881),

Gene: Peaches_81 Start: 48421, Stop: 48068, Start Num: 91
Candidate Starts for Peaches_81:
(Start: 91 @48421 has 360 MA's), (Start: 99 @48385 has 1 MA's), (110, 48322), (139, 48193), (144, 48178), (159, 48097), (161, 48082),

Gene: PegLeg_150 Start: 75840, Stop: 75433, Start Num: 69
Candidate Starts for PegLeg_150:
(Start: 69 @75840 has 20 MA's), (107, 75714), (111, 75690), (116, 75669), (117, 75666), (127, 75591), (135, 75570), (152, 75486), (157, 75468),

Gene: Pembroke_86 Start: 47779, Stop: 47396, Start Num: 91
Candidate Starts for Pembroke_86:
(33, 47938), (62, 47848), (64, 47839), (Start: 78 @47809 has 1 MA's), (Start: 87 @47785 has 4 MA's), (Start: 91 @47779 has 360 MA's), (Start: 93 @47773 has 8 MA's), (110, 47662), (111, 47659), (127, 47560), (136, 47530),

Gene: Penny1_86 Start: 47787, Stop: 47404, Start Num: 91
Candidate Starts for Penny1_86:
(Start: 87 @47793 has 4 MA's), (Start: 89 @47790 has 34 MA's), (Start: 91 @47787 has 360 MA's), (98, 47745), (110, 47670), (111, 47667), (127, 47568), (136, 47538),

Gene: Perplexer_79 Start: 48035, Stop: 47682, Start Num: 91
Candidate Starts for Perplexer_79:
(Start: 91 @48035 has 360 MA's), (Start: 99 @47999 has 1 MA's), (110, 47936), (115, 47921), (117, 47909), (118, 47885), (126, 47837), (139, 47807), (159, 47711), (161, 47696),

Gene: PeterPeter_83 Start: 48410, Stop: 48057, Start Num: 91
Candidate Starts for PeterPeter_83:
(Start: 91 @48410 has 360 MA's), (Start: 99 @48374 has 1 MA's), (110, 48311), (132, 48194), (139, 48182), (159, 48086), (161, 48071),

Gene: Petersenfast_87 Start: 47376, Stop: 47023, Start Num: 91
Candidate Starts for Petersenfast_87:
(Start: 86 @47379 has 1 MA's), (Start: 91 @47376 has 360 MA's), (101, 47331), (107, 47298), (110, 47277), (115, 47262), (118, 47226), (134, 47157), (144, 47133), (161, 47037),

Gene: PetiteSangsue_79 Start: 48038, Stop: 47685, Start Num: 91
Candidate Starts for PetiteSangsue_79:
(Start: 91 @48038 has 360 MA's), (Start: 99 @48002 has 1 MA's), (110, 47939), (115, 47924), (117, 47912), (118, 47888), (126, 47840), (139, 47810), (159, 47714), (161, 47699),

Gene: Ph8s_91 Start: 48979, Stop: 48599, Start Num: 84
Candidate Starts for Ph8s_91:
(Start: 84 @48979 has 71 MA's), (Start: 93 @48958 has 8 MA's), (101, 48901), (104, 48892), (110, 48847), (116, 48823), (121, 48775),

Gene: Phacado_83 Start: 48412, Stop: 48059, Start Num: 91
Candidate Starts for Phacado_83:
(Start: 91 @48412 has 360 MA's), (Start: 99 @48376 has 1 MA's), (110, 48313), (139, 48184), (144, 48169), (159, 48088), (161, 48073),

Gene: Phaded_82 Start: 50321, Stop: 49899, Start Num: 61
Candidate Starts for Phaded_82:
(Start: 61 @50321 has 1 MA's), (Start: 79 @50279 has 7 MA's), (Start: 93 @50258 has 8 MA's), (110, 50147), (117, 50120), (118, 50096), (120, 50081), (123, 50060), (148, 49976), (161, 49913),

Gene: Phaeder_91 Start: 49448, Stop: 49095, Start Num: 91
Candidate Starts for Phaeder_91:
(Start: 91 @49448 has 360 MA's), (Start: 93 @49442 has 8 MA's), (Start: 99 @49412 has 1 MA's), (107, 49370), (110, 49349), (144, 49205), (161, 49109),

Gene: Phantastic_86 Start: 47138, Stop: 46725, Start Num: 73
Candidate Starts for Phantastic_86:
(35, 47234), (Start: 68 @47144 has 8 MA's), (Start: 73 @47138 has 21 MA's), (107, 47021), (113, 46994), (124, 46910), (152, 46793), (156, 46778),

Gene: Phelipe_83 Start: 48377, Stop: 48024, Start Num: 91
Candidate Starts for Phelipe_83:
(Start: 91 @48377 has 360 MA's), (Start: 99 @48341 has 1 MA's), (110, 48278), (132, 48161), (139, 48149), (159, 48053), (161, 48038),

Gene: Phighter1804_83 Start: 48477, Stop: 48124, Start Num: 91
Candidate Starts for Phighter1804_83:
(Start: 91 @48477 has 360 MA's), (Start: 99 @48441 has 1 MA's), (126, 48279), (139, 48249), (144, 48234), (153, 48174), (159, 48153), (161, 48138),

Gene: PhishRPhriends_83 Start: 47011, Stop: 46622, Start Num: 91
Candidate Starts for PhishRPhriends_83:
(Start: 91 @47011 has 360 MA's), (110, 46894), (111, 46891), (127, 46792),

Gene: Phoebe_87 Start: 47779, Stop: 47396, Start Num: 91
Candidate Starts for Phoebe_87:
(Start: 87 @47785 has 4 MA's), (Start: 89 @47782 has 34 MA's), (Start: 91 @47779 has 360 MA's), (98, 47737), (110, 47662), (111, 47659), (127, 47560), (136, 47530),

Gene: Phonnegut_91 Start: 49454, Stop: 49107, Start Num: 93
Candidate Starts for Phonnegut_91:
(Start: 91 @49460 has 360 MA's), (Start: 93 @49454 has 8 MA's), (Start: 99 @49424 has 1 MA's), (107, 49382), (110, 49361), (144, 49217), (161, 49121),

Gene: Phontbonne_83 Start: 48317, Stop: 47964, Start Num: 91
Candidate Starts for Phontbonne_83:

(Start: 91 @48317 has 360 MA's), (Start: 99 @48281 has 1 MA's), (139, 48089), (144, 48074), (159, 47993), (161, 47978),

Gene: Phranny_79 Start: 45279, Stop: 44890, Start Num: 91
Candidate Starts for Phranny_79:
(Start: 91 @45279 has 360 MA's), (110, 45162), (111, 45159), (127, 45060),

Gene: Phrappuccino_6 Start: 6232, Stop: 6651, Start Num: 76
Candidate Starts for Phrappuccino_6:
(1, 5695), (2, 5776), (13, 5992), (49, 6175), (Start: 76 @6232 has 3 MA's), (95, 6283), (101, 6316), (107, 6349), (108, 6352), (122, 6445), (123, 6457), (125, 6466), (137, 6502), (150, 6562), (160, 6613), (162, 6622),

Gene: Pioneer_91 Start: 49454, Stop: 49107, Start Num: 93
Candidate Starts for Pioneer_91:
(Start: 91 @49460 has 360 MA's), (Start: 93 @49454 has 8 MA's), (Start: 99 @49424 has 1 MA's), (107, 49382), (110, 49361), (144, 49217), (161, 49121),

Gene: Pipcraft_79 Start: 48417, Stop: 48064, Start Num: 91
Candidate Starts for Pipcraft_79:
(Start: 91 @48417 has 360 MA's), (Start: 99 @48381 has 1 MA's), (110, 48318), (139, 48189), (144, 48174), (159, 48093), (161, 48078),

Gene: Piro94_87 Start: 49217, Stop: 48864, Start Num: 91
Candidate Starts for Piro94_87:
(22, 49427), (46, 49319), (48, 49313), (Start: 91 @49217 has 360 MA's), (Start: 99 @49181 has 1 MA's), (111, 49115), (118, 49067), (127, 49016), (132, 49001), (134, 48998), (144, 48974), (161, 48878),

Gene: Pistachio_86 Start: 47518, Stop: 47099, Start Num: 71
Candidate Starts for Pistachio_86:
(Start: 71 @47518 has 13 MA's), (Start: 84 @47488 has 71 MA's), (Start: 99 @47437 has 1 MA's), (118, 47323), (123, 47287), (156, 47152),

Gene: Pmask_90 Start: 48962, Stop: 48582, Start Num: 84
Candidate Starts for Pmask_90:
(43, 49064), (Start: 84 @48962 has 71 MA's), (Start: 93 @48941 has 8 MA's), (Start: 99 @48896 has 1 MA's), (101, 48884), (110, 48830), (115, 48815), (116, 48806), (123, 48743), (124, 48740), (151, 48650), (157, 48617),

Gene: Pocahontas_84 Start: 47633, Stop: 47208, Start Num: 68
Candidate Starts for Pocahontas_84:
(35, 47723), (Start: 68 @47633 has 8 MA's), (Start: 72 @47624 has 12 MA's), (Start: 84 @47597 has 71 MA's), (107, 47504), (152, 47276), (156, 47261),

Gene: Polymorphads_84 Start: 48437, Stop: 48084, Start Num: 91
Candidate Starts for Polymorphads_84:
(Start: 91 @48437 has 360 MA's), (Start: 99 @48401 has 1 MA's), (139, 48209), (144, 48194), (159, 48113), (161, 48098),

Gene: Polyphemus_84 Start: 46733, Stop: 46353, Start Num: 84
Candidate Starts for Polyphemus_84:

(43, 46835), (Start: 84 @46733 has 71 MA's), (Start: 93 @46712 has 8 MA's), (Start: 99 @46667 has 1 MA's), (101, 46655), (110, 46601), (115, 46586), (116, 46577), (123, 46514), (124, 46511), (151, 46421), (157, 46388),

Gene: Pomar16_90 Start: 49602, Stop: 49222, Start Num: 84
Candidate Starts for Pomar16_90:
(Start: 84 @49602 has 71 MA's), (104, 49515), (116, 49446), (117, 49443), (118, 49419),

Gene: Poompha_79 Start: 47233, Stop: 46826, Start Num: 73
Candidate Starts for Poompha_79:
(Start: 73 @47233 has 21 MA's), (Start: 84 @47209 has 71 MA's), (107, 47116), (110, 47095), (114, 47086), (117, 47068), (123, 47008), (128, 46993), (144, 46945), (152, 46894), (156, 46879),

Gene: Popcicle_85 Start: 47633, Stop: 47208, Start Num: 68
Candidate Starts for Popcicle_85:
(35, 47723), (Start: 68 @47633 has 8 MA's), (Start: 72 @47624 has 12 MA's), (Start: 84 @47597 has 71 MA's), (107, 47504), (152, 47276), (156, 47261),

Gene: PotatoSplit_87 Start: 47787, Stop: 47404, Start Num: 91
Candidate Starts for PotatoSplit_87:
(Start: 87 @47793 has 4 MA's), (Start: 89 @47790 has 34 MA's), (Start: 91 @47787 has 360 MA's), (98, 47745), (110, 47670), (111, 47667), (127, 47568), (136, 47538),

Gene: Power_88 Start: 49880, Stop: 49527, Start Num: 91
Candidate Starts for Power_88:
(Start: 91 @49880 has 360 MA's), (Start: 99 @49844 has 1 MA's), (111, 49778), (118, 49730), (127, 49679), (132, 49664), (161, 49541),

Gene: Priamo_92 Start: 48199, Stop: 47819, Start Num: 84
Candidate Starts for Priamo_92:
(28, 48337), (Start: 68 @48232 has 8 MA's), (Start: 84 @48199 has 71 MA's), (Start: 93 @48178 has 8 MA's), (Start: 99 @48133 has 1 MA's), (101, 48121), (110, 48067), (115, 48052), (116, 48043), (117, 48040), (123, 47980), (124, 47977), (151, 47887), (157, 47854),

Gene: Priya_89 Start: 49232, Stop: 48879, Start Num: 91
Candidate Starts for Priya_89:
(Start: 91 @49232 has 360 MA's), (Start: 93 @49226 has 8 MA's), (Start: 99 @49196 has 1 MA's), (107, 49154), (110, 49133), (144, 48989), (161, 48893),

Gene: Prudy_86 Start: 49666, Stop: 49313, Start Num: 91
Candidate Starts for Prudy_86:
(46, 49750), (58, 49741), (Start: 91 @49666 has 360 MA's), (Start: 99 @49630 has 1 MA's), (111, 49564), (118, 49516), (132, 49450), (161, 49327),

Gene: Pukovnik_83 Start: 49753, Stop: 49373, Start Num: 79
Candidate Starts for Pukovnik_83:
(Start: 61 @49783 has 1 MA's), (Start: 79 @49753 has 7 MA's), (Start: 93 @49732 has 8 MA's), (101, 49675), (110, 49621), (116, 49597), (118, 49570), (120, 49555), (123, 49534), (138, 49495), (148, 49450), (161, 49387),

Gene: Pumbaa_83 Start: 48361, Stop: 48008, Start Num: 91
Candidate Starts for Pumbaa_83:

(Start: 91 @48361 has 360 MA's), (Start: 99 @48325 has 1 MA's), (110, 48262), (139, 48133), (144, 48118), (159, 48037), (161, 48022),

Gene: Puppy_87 Start: 47588, Stop: 47169, Start Num: 71
Candidate Starts for Puppy_87:
(Start: 71 @47588 has 13 MA's), (Start: 84 @47558 has 71 MA's), (Start: 99 @47507 has 1 MA's), (118, 47393), (123, 47357), (156, 47222),

Gene: Qobbit_89 Start: 49194, Stop: 48841, Start Num: 91
Candidate Starts for Qobbit_89:
(Start: 91 @49194 has 360 MA's), (Start: 93 @49188 has 8 MA's), (Start: 99 @49158 has 1 MA's), (107, 49116), (110, 49095), (144, 48951), (161, 48855),

Gene: QueenB2_85 Start: 48968, Stop: 48615, Start Num: 91
Candidate Starts for QueenB2_85:
(Start: 91 @48968 has 360 MA's), (Start: 99 @48932 has 1 MA's), (113, 48863), (117, 48842), (118, 48818), (132, 48752), (161, 48629),

Gene: QueenBeesly_88 Start: 49833, Stop: 49480, Start Num: 91
Candidate Starts for QueenBeesly_88:
(Start: 91 @49833 has 360 MA's), (Start: 99 @49797 has 1 MA's), (111, 49731), (118, 49683), (127, 49632), (161, 49494),

Gene: QuinnKiro_84 Start: 47627, Stop: 47211, Start Num: 72
Candidate Starts for QuinnKiro_84:
(35, 47726), (Start: 68 @47636 has 8 MA's), (Start: 72 @47627 has 12 MA's), (Start: 84 @47600 has 71 MA's), (107, 47507), (152, 47279), (156, 47264),

Gene: Quokka_91 Start: 49071, Stop: 48691, Start Num: 84
Candidate Starts for Quokka_91:
(Start: 84 @49071 has 71 MA's), (Start: 93 @49050 has 8 MA's), (104, 48984), (107, 48960), (110, 48939), (116, 48915), (117, 48912), (123, 48852), (144, 48801), (161, 48705),

Gene: RGL3_54 Start: 39978, Stop: 39625, Start Num: 91
Candidate Starts for RGL3_54:
(Start: 91 @39978 has 360 MA's), (115, 39864), (117, 39852), (122, 39804), (126, 39780),

Gene: Rachaly_86 Start: 48977, Stop: 48624, Start Num: 91
Candidate Starts for Rachaly_86:
(Start: 91 @48977 has 360 MA's), (Start: 99 @48941 has 1 MA's), (111, 48875), (118, 48827), (132, 48761), (161, 48638),

Gene: Rahalelujah_90 Start: 48992, Stop: 48639, Start Num: 91
Candidate Starts for Rahalelujah_90:
(Start: 91 @48992 has 360 MA's), (Start: 99 @48956 has 1 MA's), (107, 48914), (124, 48803), (132, 48776), (161, 48653),

Gene: Rana_67 Start: 45872, Stop: 45501, Start Num: 89
Candidate Starts for Rana_67:
(Start: 89 @45872 has 34 MA's), (96, 45845), (Start: 103 @45812 has 1 MA's), (109, 45773), (115, 45749), (120, 45698), (122, 45689), (124, 45674), (126, 45665), (148, 45578), (152, 45554), (158, 45533),

Gene: Reba_82 Start: 46667, Stop: 46278, Start Num: 91
Candidate Starts for Reba_82:
(Start: 91 @46667 has 360 MA's), (110, 46550), (111, 46547), (127, 46448),

Gene: Rebeuca_83 Start: 48503, Stop: 48096, Start Num: 73
Candidate Starts for Rebeuca_83:
(26, 48641), (Start: 73 @48503 has 21 MA's), (Start: 84 @48479 has 71 MA's), (107, 48386), (110, 48365), (114, 48356), (117, 48338), (123, 48278), (124, 48275), (126, 48266), (128, 48263), (144, 48215), (156, 48149),

Gene: RedRock_89 Start: 49991, Stop: 49638, Start Num: 44
Candidate Starts for RedRock_89:
(Start: 44 @49991 has 3 MA's), (Start: 99 @49955 has 1 MA's), (111, 49889), (118, 49841), (132, 49775), (134, 49772), (161, 49652),

Gene: Refuge_83 Start: 49309, Stop: 48926, Start Num: 84
Candidate Starts for Refuge_83:
(50, 49387), (Start: 84 @49309 has 71 MA's), (Start: 93 @49288 has 8 MA's), (107, 49198), (116, 49153), (117, 49150), (118, 49126), (123, 49090), (124, 49087), (130, 49069),

Gene: Reindeer_148 Start: 77080, Stop: 76673, Start Num: 69
Candidate Starts for Reindeer_148:
(Start: 69 @77080 has 20 MA's), (102, 76984), (107, 76954), (111, 76930), (116, 76909), (118, 76882), (122, 76858), (123, 76846), (124, 76843), (152, 76726), (157, 76708),

Gene: Relief_82 Start: 48413, Stop: 48060, Start Num: 91
Candidate Starts for Relief_82:
(Start: 91 @48413 has 360 MA's), (Start: 99 @48377 has 1 MA's), (110, 48314), (132, 48197), (139, 48185), (159, 48089), (161, 48074),

Gene: ResDef_83 Start: 47639, Stop: 47214, Start Num: 68
Candidate Starts for ResDef_83:
(35, 47729), (Start: 68 @47639 has 8 MA's), (Start: 72 @47630 has 12 MA's), (Start: 84 @47603 has 71 MA's), (107, 47510), (152, 47282), (156, 47267),

Gene: Retro23_88 Start: 49379, Stop: 49026, Start Num: 91
Candidate Starts for Retro23_88:
(Start: 91 @49379 has 360 MA's), (Start: 99 @49343 has 1 MA's), (111, 49277), (132, 49163), (161, 49040),

Gene: Rey_165 Start: 78264, Stop: 77857, Start Num: 69
Candidate Starts for Rey_165:
(38, 78345), (47, 78315), (Start: 69 @78264 has 20 MA's), (Start: 93 @78210 has 8 MA's), (102, 78168), (110, 78117), (111, 78114), (113, 78111), (123, 78030), (126, 78018), (127, 78015), (152, 77910),

Gene: RhynO_70 Start: 43938, Stop: 43531, Start Num: 73
Candidate Starts for RhynO_70:
(26, 44085), (Start: 73 @43938 has 21 MA's), (Start: 84 @43914 has 71 MA's), (107, 43821), (117, 43773), (123, 43713), (132, 43683), (141, 43665),

Gene: Rifter_93 Start: 47952, Stop: 47572, Start Num: 84
Candidate Starts for Rifter_93:

(43, 48054), (Start: 84 @47952 has 71 MA's), (Start: 93 @47931 has 8 MA's), (Start: 99 @47886 has 1 MA's), (101, 47874), (110, 47820), (115, 47805), (116, 47796), (117, 47793), (123, 47733), (124, 47730), (151, 47640), (157, 47607),

Gene: RockieBear_83 Start: 48421, Stop: 48068, Start Num: 91
Candidate Starts for RockieBear_83:
(Start: 91 @48421 has 360 MA's), (Start: 99 @48385 has 1 MA's), (139, 48193), (144, 48178), (159, 48097), (161, 48082),

Gene: Rocksand_80 Start: 48412, Stop: 48059, Start Num: 91
Candidate Starts for Rocksand_80:
(Start: 91 @48412 has 360 MA's), (Start: 99 @48376 has 1 MA's), (110, 48313), (132, 48196), (139, 48184), (159, 48088), (161, 48073),

Gene: Rockstar_73 Start: 44617, Stop: 44204, Start Num: 73
Candidate Starts for Rockstar_73:
(Start: 73 @44617 has 21 MA's), (107, 44500), (124, 44389), (152, 44272), (156, 44257),

Gene: Roimos_84 Start: 47827, Stop: 47408, Start Num: 71
Candidate Starts for Roimos_84:
(29, 47953), (Start: 71 @47827 has 13 MA's), (Start: 84 @47797 has 71 MA's), (Start: 99 @47746 has 1 MA's), (118, 47632), (123, 47596), (156, 47461),

Gene: Roksolana_93 Start: 48647, Stop: 48288, Start Num: 93
Candidate Starts for Roksolana_93:
(43, 48770), (Start: 84 @48668 has 71 MA's), (Start: 93 @48647 has 8 MA's), (Start: 99 @48602 has 1 MA's), (101, 48590), (110, 48536), (115, 48521), (116, 48512), (117, 48509), (123, 48449), (124, 48446), (151, 48356), (157, 48323),

Gene: Romney_82 Start: 48413, Stop: 48060, Start Num: 91
Candidate Starts for Romney_82:
(Start: 91 @48413 has 360 MA's), (Start: 99 @48377 has 1 MA's), (110, 48314), (132, 48197), (139, 48185), (159, 48089), (161, 48074),

Gene: Roosevelt_81 Start: 48418, Stop: 48065, Start Num: 91
Candidate Starts for Roosevelt_81:
(Start: 91 @48418 has 360 MA's), (Start: 99 @48382 has 1 MA's), (139, 48190), (144, 48175), (159, 48094), (161, 48079),

Gene: Rosa24_79 Start: 48444, Stop: 48091, Start Num: 91
Candidate Starts for Rosa24_79:
(Start: 91 @48444 has 360 MA's), (Start: 99 @48408 has 1 MA's), (110, 48345), (118, 48294), (126, 48246), (127, 48243), (139, 48216), (159, 48120), (161, 48105),

Gene: RoseMarie_154 Start: 78565, Stop: 78158, Start Num: 69
Candidate Starts for RoseMarie_154:
(Start: 69 @78565 has 20 MA's), (107, 78439), (111, 78415), (116, 78394), (117, 78391), (127, 78316), (135, 78295), (152, 78211), (157, 78193),

Gene: Rowdy_85 Start: 48324, Stop: 47917, Start Num: 73
Candidate Starts for Rowdy_85:
(26, 48471), (Start: 73 @48324 has 21 MA's), (Start: 84 @48300 has 71 MA's), (107, 48207), (117, 48159), (123, 48099), (132, 48069), (141, 48051),

Gene: Ruin_83 Start: 48409, Stop: 48056, Start Num: 91
Candidate Starts for Ruin_83:
(Start: 91 @48409 has 360 MA's), (Start: 99 @48373 has 1 MA's), (110, 48310), (132, 48193), (139, 48181), (159, 48085), (161, 48070),

Gene: Rummer_85 Start: 47811, Stop: 47428, Start Num: 91
Candidate Starts for Rummer_85:
(Start: 87 @47817 has 4 MA's), (Start: 89 @47814 has 34 MA's), (Start: 91 @47811 has 360 MA's), (98, 47769), (110, 47694), (111, 47691), (127, 47592), (136, 47562),

Gene: RyeScarlet_91 Start: 49446, Stop: 49093, Start Num: 91
Candidate Starts for RyeScarlet_91:
(Start: 91 @49446 has 360 MA's), (Start: 93 @49440 has 8 MA's), (Start: 99 @49410 has 1 MA's), (107, 49368), (110, 49347), (144, 49203), (161, 49107),

Gene: Sabertooth_83 Start: 48421, Stop: 48068, Start Num: 91
Candidate Starts for Sabertooth_83:
(Start: 91 @48421 has 360 MA's), (Start: 99 @48385 has 1 MA's), (110, 48322), (132, 48205), (139, 48193), (159, 48097), (161, 48082),

Gene: Sabia_84 Start: 47786, Stop: 47403, Start Num: 91
Candidate Starts for Sabia_84:
(33, 47945), (62, 47855), (64, 47846), (Start: 78 @47816 has 1 MA's), (Start: 87 @47792 has 4 MA's), (Start: 91 @47786 has 360 MA's), (Start: 93 @47780 has 8 MA's), (110, 47669), (111, 47666), (127, 47567), (136, 47537),

Gene: Sabinator_84 Start: 47785, Stop: 47402, Start Num: 91
Candidate Starts for Sabinator_84:
(Start: 87 @47791 has 4 MA's), (Start: 89 @47788 has 34 MA's), (Start: 91 @47785 has 360 MA's), (98, 47743), (110, 47668), (111, 47665), (127, 47566), (136, 47536),

Gene: Sachima_91 Start: 49475, Stop: 49122, Start Num: 91
Candidate Starts for Sachima_91:
(Start: 91 @49475 has 360 MA's), (Start: 93 @49469 has 8 MA's), (Start: 99 @49439 has 1 MA's), (107, 49397), (110, 49376), (144, 49232), (161, 49136),

Gene: Salz_87 Start: 47605, Stop: 47252, Start Num: 91
Candidate Starts for Salz_87:
(Start: 86 @47608 has 1 MA's), (Start: 91 @47605 has 360 MA's), (101, 47560), (107, 47527), (110, 47506), (115, 47491), (118, 47455), (134, 47386), (144, 47362), (161, 47266),

Gene: SarahRose_64 Start: 46455, Stop: 46084, Start Num: 89
Candidate Starts for SarahRose_64:
(56, 46530), (Start: 89 @46455 has 34 MA's), (97, 46419), (Start: 103 @46395 has 1 MA's), (109, 46356), (120, 46281), (124, 46257), (126, 46248), (148, 46161), (152, 46137), (158, 46116),

Gene: Saskia_89 Start: 48010, Stop: 47654, Start Num: 86
Candidate Starts for Saskia_89:
(Start: 86 @48010 has 1 MA's), (Start: 91 @48007 has 360 MA's), (Start: 99 @47971 has 1 MA's), (108, 47926), (111, 47905), (115, 47893), (118, 47857), (123, 47821), (161, 47668),

Gene: SaturnRing_87 Start: 47971, Stop: 47552, Start Num: 71

Candidate Starts for SaturnRing_87:
(Start: 71 @47971 has 13 MA's), (Start: 84 @47941 has 71 MA's), (Start: 99 @47890 has 1 MA's), (118, 47776), (123, 47740), (156, 47605),

Gene: Scamp_83 Start: 48418, Stop: 48065, Start Num: 91
Candidate Starts for Scamp_83:
(Start: 91 @48418 has 360 MA's), (Start: 99 @48382 has 1 MA's), (110, 48319), (132, 48202), (139, 48190), (159, 48094), (161, 48079),

Gene: Scherzo_89 Start: 49492, Stop: 49139, Start Num: 91
Candidate Starts for Scherzo_89:
(Start: 91 @49492 has 360 MA's), (Start: 93 @49486 has 8 MA's), (Start: 99 @49456 has 1 MA's), (107, 49414), (110, 49393), (144, 49249), (161, 49153),

Gene: Scout_85 Start: 47152, Stop: 46733, Start Num: 71
Candidate Starts for Scout_85:
(Start: 71 @47152 has 13 MA's), (Start: 84 @47122 has 71 MA's), (Start: 99 @47071 has 1 MA's), (118, 46957), (123, 46921), (156, 46786),

Gene: SemperFi_88 Start: 49721, Stop: 49368, Start Num: 91
Candidate Starts for SemperFi_88:
(Start: 91 @49721 has 360 MA's), (Start: 99 @49685 has 1 MA's), (111, 49619), (118, 49571), (127, 49520), (132, 49505), (161, 49382),

Gene: SenorClean_84 Start: 48416, Stop: 48063, Start Num: 91
Candidate Starts for SenorClean_84:
(Start: 91 @48416 has 360 MA's), (Start: 99 @48380 has 1 MA's), (110, 48317), (139, 48188), (144, 48173), (159, 48092), (161, 48077),

Gene: Serenity_92 Start: 49110, Stop: 48730, Start Num: 84
Candidate Starts for Serenity_92:
(Start: 84 @49110 has 71 MA's), (104, 49023), (110, 48978), (116, 48954), (121, 48906), (138, 48852), (161, 48744),

Gene: Settecandela_6 Start: 6232, Stop: 6651, Start Num: 76
Candidate Starts for Settecandela_6:
(1, 5695), (2, 5776), (13, 5992), (49, 6175), (Start: 76 @6232 has 3 MA's), (95, 6283), (101, 6316), (107, 6349), (108, 6352), (122, 6445), (123, 6457), (125, 6466), (137, 6502), (150, 6562), (160, 6613), (162, 6622),

Gene: Severus_80 Start: 47233, Stop: 46826, Start Num: 73
Candidate Starts for Severus_80:
(Start: 73 @47233 has 21 MA's), (Start: 84 @47209 has 71 MA's), (107, 47116), (110, 47095), (114, 47086), (117, 47068), (123, 47008), (128, 46993), (144, 46945), (152, 46894), (156, 46879),

Gene: Shaka_81 Start: 48414, Stop: 48061, Start Num: 91
Candidate Starts for Shaka_81:
(Start: 91 @48414 has 360 MA's), (Start: 99 @48378 has 1 MA's), (110, 48315), (139, 48186), (159, 48090), (161, 48075),

Gene: Sham4_88 Start: 47691, Stop: 47338, Start Num: 91
Candidate Starts for Sham4_88:

(Start: 86 @47694 has 1 MA's), (Start: 91 @47691 has 360 MA's), (101, 47646), (107, 47613), (110, 47592), (115, 47577), (118, 47541), (134, 47472), (144, 47448), (161, 47352),

Gene: Shapes_85 Start: 48324, Stop: 47917, Start Num: 73
Candidate Starts for Shapes_85:
(26, 48471), (Start: 73 @48324 has 21 MA's), (Start: 84 @48300 has 71 MA's), (107, 48207), (117, 48159), (123, 48099), (132, 48069), (141, 48051),

Gene: SheaKeira_86 Start: 48740, Stop: 48387, Start Num: 91
Candidate Starts for SheaKeira_86:
(27, 48923), (34, 48899), (37, 48872), (Start: 91 @48740 has 360 MA's), (Start: 93 @48734 has 8 MA's), (Start: 99 @48704 has 1 MA's), (110, 48641), (127, 48539), (132, 48524), (144, 48497), (161, 48401),

Gene: Sheen_81 Start: 50508, Stop: 50107, Start Num: 72
Candidate Starts for Sheen_81:
(Start: 72 @50508 has 12 MA's), (Start: 84 @50484 has 71 MA's), (94, 50457), (101, 50424), (111, 50367), (117, 50343), (123, 50283), (126, 50271), (149, 50190), (155, 50169), (166, 50115),

Gene: SheldonCooper_83 Start: 48854, Stop: 48501, Start Num: 91
Candidate Starts for SheldonCooper_83:
(Start: 91 @48854 has 360 MA's), (Start: 99 @48818 has 1 MA's), (110, 48755), (132, 48638), (139, 48626), (159, 48530), (161, 48515),

Gene: Shygu2_81 Start: 48360, Stop: 48007, Start Num: 91
Candidate Starts for Shygu2_81:
(Start: 91 @48360 has 360 MA's), (Start: 99 @48324 has 1 MA's), (139, 48132), (159, 48036), (161, 48021),

Gene: Skadoosh_80 Start: 48413, Stop: 48060, Start Num: 91
Candidate Starts for Skadoosh_80:
(Start: 91 @48413 has 360 MA's), (Start: 99 @48377 has 1 MA's), (110, 48314), (132, 48197), (139, 48185), (144, 48170), (159, 48089), (161, 48074),

Gene: Skinny_153 Start: 76957, Stop: 76550, Start Num: 69
Candidate Starts for Skinny_153:
(Start: 69 @76957 has 20 MA's), (107, 76831), (111, 76807), (116, 76786), (117, 76783), (127, 76708), (135, 76687), (152, 76603), (157, 76585),

Gene: Skipitt_82 Start: 48410, Stop: 48057, Start Num: 91
Candidate Starts for Skipitt_82:
(Start: 91 @48410 has 360 MA's), (Start: 99 @48374 has 1 MA's), (110, 48311), (132, 48194), (139, 48182), (159, 48086), (161, 48071),

Gene: Sknot_88 Start: 49076, Stop: 48723, Start Num: 91
Candidate Starts for Sknot_88:
(46, 49178), (48, 49172), (Start: 91 @49076 has 360 MA's), (Start: 99 @49040 has 1 MA's), (111, 48974), (118, 48926), (132, 48860), (144, 48833), (161, 48737),

Gene: SlimJimmy_147 Start: 76427, Stop: 76020, Start Num: 69
Candidate Starts for SlimJimmy_147:
(47, 76478), (Start: 69 @76427 has 20 MA's), (107, 76301), (111, 76277), (116, 76256), (117, 76253), (127, 76178), (135, 76157), (152, 76073), (157, 76055),

Gene: Smeagan_91 Start: 50128, Stop: 49775, Start Num: 91
Candidate Starts for Smeagan_91:
(Start: 91 @50128 has 360 MA's), (Start: 99 @50092 has 1 MA's), (111, 50026), (118, 49978), (132, 49912), (161, 49789),

Gene: SmellyB_91 Start: 48313, Stop: 47933, Start Num: 84
Candidate Starts for SmellyB_91:
(43, 48415), (Start: 84 @48313 has 71 MA's), (Start: 93 @48292 has 8 MA's), (Start: 99 @48247 has 1 MA's), (101, 48235), (110, 48181), (115, 48166), (116, 48157), (123, 48094), (124, 48091), (151, 48001), (157, 47968),

Gene: SnapTap_88 Start: 49536, Stop: 49183, Start Num: 91
Candidate Starts for SnapTap_88:
(Start: 91 @49536 has 360 MA's), (Start: 99 @49500 has 1 MA's), (111, 49434), (118, 49386), (127, 49335), (132, 49320), (161, 49197),

Gene: Snape_91 Start: 48484, Stop: 48131, Start Num: 91
Candidate Starts for Snape_91:
(Start: 86 @48487 has 1 MA's), (Start: 91 @48484 has 360 MA's), (101, 48439), (107, 48406), (110, 48385), (115, 48370), (118, 48334), (134, 48265), (144, 48241), (161, 48145),

Gene: Snickers_86 Start: 47751, Stop: 47368, Start Num: 91
Candidate Starts for Snickers_86:
(33, 47910), (62, 47820), (64, 47811), (Start: 78 @47781 has 1 MA's), (Start: 87 @47757 has 4 MA's), (Start: 91 @47751 has 360 MA's), (Start: 93 @47745 has 8 MA's), (110, 47634), (111, 47631), (127, 47532), (136, 47502),

Gene: Snorlax_64 Start: 46480, Stop: 46109, Start Num: 89
Candidate Starts for Snorlax_64:
(56, 46555), (Start: 89 @46480 has 34 MA's), (97, 46444), (Start: 103 @46420 has 1 MA's), (109, 46381), (120, 46306), (124, 46282), (126, 46273), (148, 46186), (152, 46162), (158, 46141),

Gene: SoYo_83 Start: 47699, Stop: 47316, Start Num: 91
Candidate Starts for SoYo_83:
(Start: 87 @47705 has 4 MA's), (Start: 89 @47702 has 34 MA's), (Start: 91 @47699 has 360 MA's), (98, 47657), (110, 47582), (111, 47579), (127, 47480), (136, 47450),

Gene: SoilDragon_86 Start: 47221, Stop: 46838, Start Num: 91
Candidate Starts for SoilDragon_86:
(33, 47380), (62, 47290), (64, 47281), (Start: 78 @47251 has 1 MA's), (Start: 87 @47227 has 4 MA's), (Start: 91 @47221 has 360 MA's), (Start: 93 @47215 has 8 MA's), (110, 47104), (111, 47101), (127, 47002), (136, 46972),

Gene: SororFago_87 Start: 49002, Stop: 48646, Start Num: 91
Candidate Starts for SororFago_87:
(63, 49059), (67, 49050), (83, 49020), (Start: 91 @49002 has 360 MA's), (Start: 93 @48996 has 8 MA's), (94, 48990), (Start: 99 @48966 has 1 MA's), (112, 48897), (117, 48873), (118, 48849), (139, 48771), (156, 48684), (159, 48675), (161, 48660),

Gene: Soshari_88 Start: 47807, Stop: 47424, Start Num: 91
Candidate Starts for Soshari_88:

(Start: 87 @47813 has 4 MA's), (Start: 89 @47810 has 34 MA's), (Start: 91 @47807 has 360 MA's), (98, 47765), (110, 47690), (111, 47687), (127, 47588), (136, 47558),

Gene: Sparxx_84 Start: 48412, Stop: 48059, Start Num: 91
Candidate Starts for Sparxx_84:
(Start: 91 @48412 has 360 MA's), (Start: 99 @48376 has 1 MA's), (110, 48313), (132, 48196), (139, 48184), (159, 48088), (161, 48073),

Gene: Spike509_86 Start: 47803, Stop: 47420, Start Num: 91
Candidate Starts for Spike509_86:
(33, 47962), (62, 47872), (64, 47863), (Start: 78 @47833 has 1 MA's), (Start: 87 @47809 has 4 MA's), (Start: 91 @47803 has 360 MA's), (Start: 93 @47797 has 8 MA's), (110, 47686), (111, 47683), (127, 47584), (136, 47554),

Gene: Spino_82 Start: 48416, Stop: 48063, Start Num: 91
Candidate Starts for Spino_82:
(Start: 91 @48416 has 360 MA's), (Start: 99 @48380 has 1 MA's), (110, 48317), (132, 48200), (139, 48188), (159, 48092), (161, 48077),

Gene: Spouty_89 Start: 49231, Stop: 48878, Start Num: 91
Candidate Starts for Spouty_89:
(Start: 91 @49231 has 360 MA's), (Start: 93 @49225 has 8 MA's), (Start: 99 @49195 has 1 MA's), (107, 49153), (110, 49132), (144, 48988), (161, 48892),

Gene: Stagni_83 Start: 47811, Stop: 47398, Start Num: 78
Candidate Starts for Stagni_83:
(33, 47940), (62, 47850), (64, 47841), (Start: 78 @47811 has 1 MA's), (Start: 87 @47787 has 4 MA's), (Start: 91 @47781 has 360 MA's), (110, 47664), (111, 47661), (127, 47562), (136, 47532),

Gene: StarStuff_90 Start: 49564, Stop: 49184, Start Num: 84
Candidate Starts for StarStuff_90:
(Start: 84 @49564 has 71 MA's), (104, 49477), (116, 49408), (117, 49405), (118, 49381),

Gene: Stasia_80 Start: 48401, Stop: 48003, Start Num: 73
Candidate Starts for Stasia_80:
(Start: 73 @48401 has 21 MA's), (Start: 87 @48368 has 4 MA's), (110, 48263), (126, 48164), (144, 48122), (149, 48086), (155, 48065),

Gene: SteMason_83 Start: 48413, Stop: 48060, Start Num: 91
Candidate Starts for SteMason_83:
(Start: 91 @48413 has 360 MA's), (Start: 99 @48377 has 1 MA's), (110, 48314), (139, 48185), (144, 48170), (159, 48089), (161, 48074),

Gene: Steamy_79 Start: 48134, Stop: 47763, Start Num: 81
Candidate Starts for Steamy_79:
(31, 48284), (36, 48248), (48, 48212), (Start: 81 @48134 has 1 MA's), (Start: 93 @48113 has 8 MA's), (94, 48107), (Start: 99 @48083 has 1 MA's), (107, 48041), (108, 48038), (111, 48017), (112, 48014), (117, 47990), (127, 47915), (159, 47792), (161, 47777),

Gene: StepMih_86 Start: 47778, Stop: 47389, Start Num: 87
Candidate Starts for StepMih_86:
(33, 47931), (62, 47841), (64, 47832), (Start: 78 @47802 has 1 MA's), (Start: 87 @47778 has 4 MA's), (Start: 91 @47772 has 360 MA's), (Start: 93 @47766 has 8 MA's), (110, 47655), (111, 47652), (127,

47553), (136, 47523),

Gene: Stink_83 Start: 48640, Stop: 48287, Start Num: 91
Candidate Starts for Stink_83:
(Start: 91 @48640 has 360 MA's), (Start: 99 @48604 has 1 MA's), (110, 48541), (118, 48490), (126, 48442), (127, 48439), (132, 48424), (139, 48412), (159, 48316), (161, 48301),

Gene: Sultana_83 Start: 48413, Stop: 48060, Start Num: 91
Candidate Starts for Sultana_83:
(Start: 91 @48413 has 360 MA's), (Start: 99 @48377 has 1 MA's), (110, 48314), (139, 48185), (144, 48170), (159, 48089), (161, 48074),

Gene: Sunhee_89 Start: 47491, Stop: 47138, Start Num: 89
Candidate Starts for Sunhee_89:
(Start: 87 @47494 has 4 MA's), (Start: 89 @47491 has 34 MA's), (Start: 93 @47485 has 8 MA's), (94, 47479), (Start: 99 @47455 has 1 MA's), (107, 47413), (108, 47410), (115, 47377), (139, 47263), (144, 47248), (159, 47167), (161, 47152),

Gene: SuperAwesome_91 Start: 49001, Stop: 48621, Start Num: 84
Candidate Starts for SuperAwesome_91:
(43, 49103), (Start: 84 @49001 has 71 MA's), (Start: 93 @48980 has 8 MA's), (Start: 99 @48935 has 1 MA's), (101, 48923), (110, 48869), (115, 48854), (116, 48845), (123, 48782), (124, 48779), (151, 48689), (157, 48656),

Gene: SuperCallie99_87 Start: 48376, Stop: 47996, Start Num: 84
Candidate Starts for SuperCallie99_87:
(43, 48478), (Start: 84 @48376 has 71 MA's), (Start: 93 @48355 has 8 MA's), (Start: 99 @48310 has 1 MA's), (101, 48298), (110, 48244), (115, 48229), (116, 48220), (123, 48157), (124, 48154), (151, 48064), (157, 48031),

Gene: Superchunk_89 Start: 48723, Stop: 48343, Start Num: 84
Candidate Starts for Superchunk_89:
(Start: 84 @48723 has 71 MA's), (Start: 93 @48702 has 8 MA's), (104, 48636), (110, 48591), (113, 48585), (116, 48567), (121, 48519), (138, 48465),

Gene: SweetiePie_88 Start: 49669, Stop: 49316, Start Num: 91
Candidate Starts for SweetiePie_88:
(Start: 91 @49669 has 360 MA's), (Start: 99 @49633 has 1 MA's), (111, 49567), (118, 49519), (127, 49468), (132, 49453), (161, 49330),

Gene: SwirlSquare_91 Start: 48453, Stop: 48073, Start Num: 82
Candidate Starts for SwirlSquare_91:
(Start: 82 @48453 has 2 MA's), (Start: 93 @48432 has 8 MA's), (101, 48375), (104, 48366), (110, 48321), (116, 48297), (121, 48249),

Gene: TNguyen7_87 Start: 47929, Stop: 47510, Start Num: 71
Candidate Starts for TNguyen7_87:
(Start: 71 @47929 has 13 MA's), (Start: 84 @47899 has 71 MA's), (Start: 99 @47848 has 1 MA's), (118, 47734), (123, 47698), (156, 47563),

Gene: TagePhighter_66 Start: 46455, Stop: 46084, Start Num: 89
Candidate Starts for TagePhighter_66:

(56, 46530), (Start: 89 @46455 has 34 MA's), (97, 46419), (Start: 103 @46395 has 1 MA's), (109, 46356), (120, 46281), (124, 46257), (126, 46248), (148, 46161), (152, 46137), (158, 46116),

Gene: Taquarus_82 Start: 48425, Stop: 48072, Start Num: 91
Candidate Starts for Taquarus_82:
(Start: 91 @48425 has 360 MA's), (Start: 99 @48389 has 1 MA's), (139, 48197), (144, 48182), (159, 48101), (161, 48086),

Gene: TarsusIV_87 Start: 49681, Stop: 49328, Start Num: 91
Candidate Starts for TarsusIV_87:
(Start: 91 @49681 has 360 MA's), (Start: 99 @49645 has 1 MA's), (111, 49579), (115, 49567), (118, 49531), (132, 49465), (144, 49438), (161, 49342),

Gene: Taurus_87 Start: 47781, Stop: 47398, Start Num: 91
Candidate Starts for Taurus_87:
(Start: 87 @47787 has 4 MA's), (Start: 91 @47781 has 360 MA's), (98, 47739), (110, 47664), (111, 47661), (127, 47562), (136, 47532),

Gene: Tefunt_73 Start: 46600, Stop: 46220, Start Num: 85
Candidate Starts for Tefunt_73:
(3, 46969), (4, 46921), (5, 46918), (6, 46909), (8, 46903), (9, 46897), (Start: 85 @46600 has 4 MA's), (Start: 89 @46591 has 34 MA's), (100, 46546), (Start: 103 @46537 has 1 MA's), (110, 46492), (120, 46423), (122, 46414), (123, 46402), (129, 46375), (148, 46297), (152, 46273), (161, 46234),

Gene: Temprado_94 Start: 48784, Stop: 48404, Start Num: 84
Candidate Starts for Temprado_94:
(43, 48886), (Start: 84 @48784 has 71 MA's), (Start: 93 @48763 has 8 MA's), (Start: 99 @48718 has 1 MA's), (101, 48706), (110, 48652), (115, 48637), (116, 48628), (117, 48625), (123, 48565), (124, 48562), (151, 48472), (157, 48439),

Gene: Terrific_89 Start: 49044, Stop: 48697, Start Num: 91
Candidate Starts for Terrific_89:
(46, 49146), (48, 49140), (Start: 91 @49044 has 360 MA's), (Start: 99 @49008 has 1 MA's), (111, 48942), (118, 48894), (132, 48828), (144, 48807), (161, 48711),

Gene: Texage_83 Start: 47628, Stop: 47212, Start Num: 72
Candidate Starts for Texage_83:
(35, 47727), (Start: 68 @47637 has 8 MA's), (Start: 72 @47628 has 12 MA's), (Start: 84 @47601 has 71 MA's), (107, 47508), (152, 47280), (156, 47265),

Gene: Thanksgivukkah_82 Start: 48414, Stop: 48061, Start Num: 91
Candidate Starts for Thanksgivukkah_82:
(Start: 91 @48414 has 360 MA's), (Start: 99 @48378 has 1 MA's), (132, 48198), (139, 48186), (144, 48171), (159, 48090), (161, 48075),

Gene: Tiffany_85 Start: 47671, Stop: 47288, Start Num: 91
Candidate Starts for Tiffany_85:
(Start: 87 @47677 has 4 MA's), (Start: 89 @47674 has 34 MA's), (Start: 91 @47671 has 360 MA's), (98, 47629), (110, 47554), (111, 47551), (127, 47452), (136, 47422),

Gene: Timothy_91 Start: 48461, Stop: 48108, Start Num: 91
Candidate Starts for Timothy_91:

(Start: 86 @48464 has 1 MA's), (Start: 91 @48461 has 360 MA's), (101, 48416), (107, 48383), (110, 48362), (115, 48347), (118, 48311), (134, 48242), (144, 48218), (161, 48122),

Gene: Timshel_80 Start: 50322, Stop: 49888, Start Num: 72
Candidate Starts for Timshel_80:
(Start: 72 @50322 has 12 MA's), (Start: 84 @50295 has 71 MA's), (Start: 93 @50274 has 8 MA's), (104, 50226), (107, 50202), (110, 50181), (117, 50154), (118, 50130), (126, 50082), (128, 50079), (143, 50028), (145, 50007),

Gene: TinaFeyge_81 Start: 48411, Stop: 48058, Start Num: 91
Candidate Starts for TinaFeyge_81:
(Start: 91 @48411 has 360 MA's), (Start: 99 @48375 has 1 MA's), (139, 48183), (144, 48168), (159, 48087), (161, 48072),

Gene: TinyPebbles_85 Start: 47815, Stop: 47432, Start Num: 91
Candidate Starts for TinyPebbles_85:
(Start: 87 @47821 has 4 MA's), (Start: 89 @47818 has 34 MA's), (Start: 91 @47815 has 360 MA's), (98, 47773), (110, 47698), (111, 47695), (127, 47596), (136, 47566),

Gene: TinyTimmy_89 Start: 48190, Stop: 47837, Start Num: 91
Candidate Starts for TinyTimmy_89:
(Start: 86 @48193 has 1 MA's), (Start: 91 @48190 has 360 MA's), (101, 48145), (107, 48112), (110, 48091), (115, 48076), (118, 48040), (134, 47971), (144, 47947), (161, 47851),

Gene: Tinybot_82 Start: 48443, Stop: 48090, Start Num: 91
Candidate Starts for Tinybot_82:
(Start: 91 @48443 has 360 MA's), (Start: 99 @48407 has 1 MA's), (126, 48245), (144, 48200), (153, 48140), (159, 48119), (161, 48104),

Gene: TipsytheTRex_88 Start: 49112, Stop: 48732, Start Num: 84
Candidate Starts for TipsytheTRex_88:
(12, 49388), (16, 49352), (Start: 84 @49112 has 71 MA's), (Start: 93 @49091 has 8 MA's), (104, 49025), (107, 49001), (110, 48980), (116, 48956), (117, 48953), (123, 48893), (144, 48842), (161, 48746),

Gene: TiroTheta9_82 Start: 48410, Stop: 48057, Start Num: 91
Candidate Starts for TiroTheta9_82:
(Start: 91 @48410 has 360 MA's), (Start: 99 @48374 has 1 MA's), (139, 48182), (144, 48167), (159, 48086), (161, 48071),

Gene: Toaka_89 Start: 49331, Stop: 48978, Start Num: 91
Candidate Starts for Toaka_89:
(Start: 91 @49331 has 360 MA's), (Start: 99 @49295 has 1 MA's), (107, 49253), (115, 49217), (117, 49205), (118, 49181), (132, 49115), (161, 48992),

Gene: Todacoro_85 Start: 47627, Stop: 47211, Start Num: 72
Candidate Starts for Todacoro_85:
(35, 47726), (Start: 68 @47636 has 8 MA's), (Start: 72 @47627 has 12 MA's), (Start: 84 @47600 has 71 MA's), (107, 47507), (152, 47279), (156, 47264),

Gene: Toma_67 Start: 46317, Stop: 45946, Start Num: 89
Candidate Starts for Toma_67:

(56, 46392), (Start: 89 @46317 has 34 MA's), (Start: 103 @46257 has 1 MA's), (109, 46218), (120, 46143), (124, 46119), (126, 46110), (148, 46023), (152, 45999), (158, 45978),

Gene: Tomathan_90 Start: 49643, Stop: 49263, Start Num: 84
Candidate Starts for Tomathan_90:
(Start: 84 @49643 has 71 MA's), (104, 49556), (116, 49487), (117, 49484), (118, 49460),

Gene: ToneTone_90 Start: 48335, Stop: 47955, Start Num: 84
Candidate Starts for ToneTone_90:
(43, 48437), (Start: 84 @48335 has 71 MA's), (Start: 93 @48314 has 8 MA's), (Start: 99 @48269 has 1 MA's), (101, 48257), (110, 48203), (115, 48188), (116, 48179), (117, 48176), (123, 48116), (124, 48113), (151, 48023), (157, 47990),

Gene: Topanga_72 Start: 44959, Stop: 44552, Start Num: 73
Candidate Starts for Topanga_72:
(15, 45175), (26, 45100), (Start: 73 @44959 has 21 MA's), (Start: 84 @44935 has 71 MA's), (107, 44842), (110, 44821), (114, 44812), (117, 44794), (128, 44719), (144, 44671), (152, 44620), (156, 44605),

Gene: Toro_82 Start: 51171, Stop: 50770, Start Num: 72
Candidate Starts for Toro_82:
(Start: 72 @51171 has 12 MA's), (Start: 84 @51147 has 71 MA's), (94, 51120), (101, 51087), (111, 51030), (117, 51006), (123, 50946), (126, 50934), (149, 50853), (155, 50832), (166, 50778),

Gene: TpudiCK_150 Start: 75687, Stop: 75280, Start Num: 69
Candidate Starts for TpudiCK_150:
(47, 75738), (Start: 69 @75687 has 20 MA's), (107, 75561), (111, 75537), (116, 75516), (117, 75513), (127, 75438), (135, 75417), (152, 75333), (157, 75315),

Gene: Travvers_90 Start: 49560, Stop: 49180, Start Num: 84
Candidate Starts for Travvers_90:
(Start: 84 @49560 has 71 MA's), (104, 49473), (116, 49404), (117, 49401), (118, 49377),

Gene: Tristan_84 Start: 50111, Stop: 49731, Start Num: 79
Candidate Starts for Tristan_84:
(Start: 61 @50153 has 1 MA's), (Start: 79 @50111 has 7 MA's), (Start: 93 @50090 has 8 MA's), (110, 49979), (117, 49952), (118, 49928), (123, 49892), (148, 49808), (161, 49745),

Gene: Triste_65 Start: 46454, Stop: 46083, Start Num: 89
Candidate Starts for Triste_65:
(56, 46529), (Start: 89 @46454 has 34 MA's), (97, 46418), (Start: 103 @46394 has 1 MA's), (109, 46355), (120, 46280), (124, 46256), (126, 46247), (148, 46160), (152, 46136), (158, 46115),

Gene: Trixie_88 Start: 50150, Stop: 49794, Start Num: 91
Candidate Starts for Trixie_88:
(Start: 91 @50150 has 360 MA's), (107, 50072), (112, 50045), (115, 50033), (118, 49997), (124, 49958), (132, 49931), (156, 49832), (161, 49808),

Gene: Trooper_88 Start: 49279, Stop: 48899, Start Num: 84
Candidate Starts for Trooper_88:
(Start: 84 @49279 has 71 MA's), (Start: 93 @49258 has 8 MA's), (101, 49201), (104, 49192), (110, 49147), (116, 49123), (117, 49120), (118, 49096), (123, 49060),

Gene: TroyPia_84 Start: 48451, Stop: 48098, Start Num: 91
Candidate Starts for TroyPia_84:
(Start: 91 @48451 has 360 MA's), (Start: 99 @48415 has 1 MA's), (110, 48352), (132, 48235), (139, 48223), (159, 48127), (161, 48112),

Gene: TuanPN_62 Start: 46407, Stop: 46036, Start Num: 89
Candidate Starts for TuanPN_62:
(56, 46482), (Start: 89 @46407 has 34 MA's), (97, 46371), (Start: 103 @46347 has 1 MA's), (109, 46308), (120, 46233), (124, 46209), (126, 46200), (148, 46113), (152, 46089), (158, 46068),

Gene: Tubs_91 Start: 49448, Stop: 49095, Start Num: 91
Candidate Starts for Tubs_91:
(Start: 91 @49448 has 360 MA's), (Start: 93 @49442 has 8 MA's), (Start: 99 @49412 has 1 MA's), (107, 49370), (110, 49349), (144, 49205), (161, 49109),

Gene: Tucker_93 Start: 48538, Stop: 48158, Start Num: 84
Candidate Starts for Tucker_93:
(43, 48640), (Start: 84 @48538 has 71 MA's), (Start: 93 @48517 has 8 MA's), (Start: 99 @48472 has 1 MA's), (101, 48460), (110, 48406), (115, 48391), (116, 48382), (117, 48379), (123, 48319), (124, 48316), (151, 48226), (157, 48193),

Gene: Turbido_89 Start: 49849, Stop: 49496, Start Num: 91
Candidate Starts for Turbido_89:
(46, 49951), (48, 49945), (Start: 91 @49849 has 360 MA's), (Start: 99 @49813 has 1 MA's), (111, 49747), (118, 49699), (132, 49633), (161, 49510),

Gene: Twister_83 Start: 48167, Stop: 47760, Start Num: 73
Candidate Starts for Twister_83:
(15, 48389), (26, 48314), (Start: 73 @48167 has 21 MA's), (Start: 84 @48143 has 71 MA's), (107, 48050), (110, 48029), (114, 48020), (117, 48002), (123, 47942), (124, 47939), (126, 47930), (128, 47927), (144, 47879), (156, 47813),

Gene: TyDawg_143 Start: 75872, Stop: 75465, Start Num: 69
Candidate Starts for TyDawg_143:
(47, 75923), (Start: 69 @75872 has 20 MA's), (107, 75746), (111, 75722), (116, 75701), (117, 75698), (127, 75623), (135, 75602), (152, 75518), (157, 75500),

Gene: TygerBlood_83 Start: 48416, Stop: 48063, Start Num: 91
Candidate Starts for TygerBlood_83:
(Start: 91 @48416 has 360 MA's), (Start: 99 @48380 has 1 MA's), (110, 48317), (139, 48188), (144, 48173), (159, 48092), (161, 48077),

Gene: Ugenie5_78 Start: 46930, Stop: 46583, Start Num: 93
Candidate Starts for Ugenie5_78:
(Start: 91 @46936 has 360 MA's), (Start: 93 @46930 has 8 MA's), (Start: 99 @46900 has 1 MA's), (107, 46858), (110, 46837), (144, 46693), (161, 46597),

Gene: Ulysses_82 Start: 48099, Stop: 47746, Start Num: 91
Candidate Starts for Ulysses_82:
(Start: 91 @48099 has 360 MA's), (Start: 99 @48063 has 1 MA's), (110, 48000), (139, 47871), (144, 47856), (159, 47775), (161, 47760),

Gene: Updawg_89 Start: 49264, Stop: 48911, Start Num: 91

Candidate Starts for Updawg_89:
(46, 49366), (48, 49360), (Start: 91 @49264 has 360 MA's), (Start: 99 @49228 has 1 MA's), (111, 49162), (117, 49138), (118, 49114), (132, 49048), (144, 49021), (161, 48925),

Gene: Urza_71 Start: 45563, Stop: 45174, Start Num: 89
Candidate Starts for Urza_71:
(Start: 86 @45569 has 1 MA's), (Start: 89 @45563 has 34 MA's), (Start: 103 @45506 has 1 MA's), (109, 45467), (115, 45443), (120, 45392), (122, 45383), (123, 45371), (124, 45368), (131, 45341), (133, 45335), (146, 45296), (152, 45242), (161, 45203),

Gene: VA6_88 Start: 49607, Stop: 49260, Start Num: 91
Candidate Starts for VA6_88:
(19, 49721), (Start: 91 @49607 has 360 MA's), (Start: 99 @49571 has 1 MA's), (111, 49505), (115, 49493), (118, 49457), (132, 49391), (161, 49274),

Gene: Vanisoa_86 Start: 49634, Stop: 49317, Start Num: 99
Candidate Starts for Vanisoa_86:
(Start: 91 @49670 has 360 MA's), (Start: 99 @49634 has 1 MA's), (107, 49592), (117, 49544), (161, 49331),

Gene: Veracruz_82 Start: 47628, Stop: 47212, Start Num: 72
Candidate Starts for Veracruz_82:
(35, 47727), (Start: 68 @47637 has 8 MA's), (Start: 72 @47628 has 12 MA's), (Start: 84 @47601 has 71 MA's), (107, 47508), (152, 47280), (156, 47265),

Gene: VieEnRose_70 Start: 45152, Stop: 44760, Start Num: 89
Candidate Starts for VieEnRose_70:
(7, 45479), (20, 45374), (Start: 89 @45152 has 34 MA's), (Start: 103 @45092 has 1 MA's), (109, 45053), (115, 45029), (120, 44978), (122, 44969), (124, 44954), (133, 44921), (146, 44882), (152, 44828), (161, 44789), (165, 44777),

Gene: Vix_82 Start: 47872, Stop: 47483, Start Num: 87
Candidate Starts for Vix_82:
(Start: 87 @47872 has 4 MA's), (Start: 89 @47869 has 34 MA's), (Start: 91 @47866 has 360 MA's), (98, 47824), (110, 47749), (111, 47746), (127, 47647), (136, 47617),

Gene: VohminGhazi_91 Start: 48314, Stop: 47934, Start Num: 84
Candidate Starts for VohminGhazi_91:
(43, 48416), (Start: 84 @48314 has 71 MA's), (Start: 93 @48293 has 8 MA's), (Start: 99 @48248 has 1 MA's), (101, 48236), (110, 48182), (115, 48167), (116, 48158), (123, 48095), (124, 48092), (151, 48002), (157, 47969),

Gene: WalterMcMickey_82 Start: 48167, Stop: 47760, Start Num: 73
Candidate Starts for WalterMcMickey_82:
(15, 48389), (26, 48314), (Start: 73 @48167 has 21 MA's), (Start: 84 @48143 has 71 MA's), (107, 48050), (110, 48029), (114, 48020), (117, 48002), (123, 47942), (124, 47939), (126, 47930), (128, 47927), (144, 47879), (156, 47813),

Gene: Wander_83 Start: 48410, Stop: 48057, Start Num: 91
Candidate Starts for Wander_83:
(Start: 91 @48410 has 360 MA's), (Start: 99 @48374 has 1 MA's), (110, 48311), (139, 48182), (144, 48167), (159, 48086), (161, 48071),

Gene: Watson_85 Start: 47770, Stop: 47387, Start Num: 91
Candidate Starts for Watson_85:
(33, 47929), (62, 47839), (64, 47830), (Start: 78 @47800 has 1 MA's), (Start: 87 @47776 has 4 MA's), (Start: 91 @47770 has 360 MA's), (Start: 93 @47764 has 8 MA's), (110, 47653), (111, 47650), (127, 47551), (136, 47521),

Gene: WeiHuaDA_90 Start: 50289, Stop: 49933, Start Num: 91
Candidate Starts for WeiHuaDA_90:
(Start: 91 @50289 has 360 MA's), (Start: 99 @50253 has 1 MA's), (107, 50211), (112, 50184), (118, 50136), (124, 50097), (132, 50070), (159, 49962), (161, 49947),

Gene: Werner_64 Start: 46452, Stop: 46081, Start Num: 89
Candidate Starts for Werner_64:
(56, 46527), (Start: 89 @46452 has 34 MA's), (97, 46416), (Start: 103 @46392 has 1 MA's), (109, 46353), (120, 46278), (124, 46254), (126, 46245), (148, 46158), (152, 46134), (158, 46113),

Gene: Whabigail7_87 Start: 49847, Stop: 49494, Start Num: 91
Candidate Starts for Whabigail7_87:
(46, 49949), (48, 49943), (Start: 91 @49847 has 360 MA's), (Start: 99 @49811 has 1 MA's), (111, 49745), (118, 49697), (132, 49631), (161, 49508),

Gene: Whatever_64 Start: 46477, Stop: 46106, Start Num: 89
Candidate Starts for Whatever_64:
(56, 46552), (Start: 89 @46477 has 34 MA's), (97, 46441), (Start: 103 @46417 has 1 MA's), (109, 46378), (120, 46303), (124, 46279), (126, 46270), (148, 46183), (152, 46159), (158, 46138),

Gene: WideWale_89 Start: 49264, Stop: 48911, Start Num: 91
Candidate Starts for WideWale_89:
(46, 49366), (48, 49360), (Start: 91 @49264 has 360 MA's), (Start: 99 @49228 has 1 MA's), (111, 49162), (117, 49138), (118, 49114), (132, 49048), (144, 49021), (161, 48925),

Gene: Wiks_92 Start: 48415, Stop: 48035, Start Num: 84
Candidate Starts for Wiks_92:
(43, 48517), (Start: 84 @48415 has 71 MA's), (Start: 93 @48394 has 8 MA's), (Start: 99 @48349 has 1 MA's), (101, 48337), (110, 48283), (115, 48268), (116, 48259), (117, 48256), (123, 48196), (124, 48193), (151, 48103), (157, 48070),

Gene: Wilbur_83 Start: 48413, Stop: 48060, Start Num: 91
Candidate Starts for Wilbur_83:
(Start: 91 @48413 has 360 MA's), (Start: 99 @48377 has 1 MA's), (110, 48314), (132, 48197), (139, 48185), (159, 48089), (161, 48074),

Gene: Wile_78 Start: 48064, Stop: 47711, Start Num: 91
Candidate Starts for Wile_78:
(Start: 91 @48064 has 360 MA's), (Start: 99 @48028 has 1 MA's), (110, 47965), (115, 47950), (117, 47938), (118, 47914), (126, 47866), (139, 47836), (159, 47740), (161, 47725),

Gene: Wizard007_79 Start: 47790, Stop: 47437, Start Num: 91
Candidate Starts for Wizard007_79:
(Start: 91 @47790 has 360 MA's), (Start: 99 @47754 has 1 MA's), (110, 47691), (115, 47676), (117, 47664), (118, 47640), (126, 47592), (139, 47562), (159, 47466), (161, 47451),

Gene: Wolpertinger_90 Start: 48810, Stop: 48457, Start Num: 91

Candidate Starts for Wolpertinger_90:
(Start: 86 @48813 has 1 MA's), (Start: 91 @48810 has 360 MA's), (101, 48765), (107, 48732), (110, 48711), (115, 48696), (118, 48660), (134, 48591), (144, 48567), (161, 48471),

Gene: Wooldri_88 Start: 47692, Stop: 47309, Start Num: 91
Candidate Starts for Wooldri_88:
(Start: 87 @47698 has 4 MA's), (Start: 89 @47695 has 34 MA's), (Start: 91 @47692 has 360 MA's), (98, 47650), (110, 47575), (111, 47572), (127, 47473), (136, 47443),

Gene: WorldCup_89 Start: 49128, Stop: 48775, Start Num: 91
Candidate Starts for WorldCup_89:
(23, 49329), (Start: 71 @49173 has 13 MA's), (Start: 84 @49143 has 71 MA's), (Start: 91 @49128 has 360 MA's), (94, 49116), (Start: 99 @49092 has 1 MA's), (107, 49050), (124, 48939), (132, 48912), (161, 48789),

Gene: Xena_79 Start: 48235, Stop: 47882, Start Num: 91
Candidate Starts for Xena_79:
(Start: 91 @48235 has 360 MA's), (Start: 93 @48229 has 8 MA's), (Start: 99 @48199 has 1 MA's), (126, 48037), (132, 48019), (139, 48007), (159, 47911), (161, 47896),

Gene: XianYue_88 Start: 50053, Stop: 49673, Start Num: 84
Candidate Starts for XianYue_88:
(75, 50071), (Start: 84 @50053 has 71 MA's), (Start: 93 @50032 has 8 MA's), (101, 49975), (104, 49966), (110, 49921), (116, 49897), (118, 49870), (123, 49834), (148, 49750),

Gene: Yasdnil_64 Start: 46504, Stop: 46133, Start Num: 89
Candidate Starts for Yasdnil_64:
(56, 46579), (Start: 89 @46504 has 34 MA's), (97, 46468), (Start: 103 @46444 has 1 MA's), (120, 46330), (124, 46306), (126, 46297), (148, 46210), (152, 46186), (158, 46165),

Gene: Yecey3_92 Start: 49214, Stop: 48861, Start Num: 91
Candidate Starts for Yecey3_92:
(57, 49295), (74, 49250), (Start: 91 @49214 has 360 MA's), (Start: 93 @49208 has 8 MA's), (94, 49202), (Start: 99 @49178 has 1 MA's), (118, 49064), (126, 49016), (127, 49013), (144, 48971), (161, 48875),

Gene: YoSam321_83 Start: 48411, Stop: 48058, Start Num: 91
Candidate Starts for YoSam321_83:
(Start: 91 @48411 has 360 MA's), (Start: 99 @48375 has 1 MA's), (139, 48183), (144, 48168), (159, 48087), (161, 48072),

Gene: Yokurt_92 Start: 48415, Stop: 48035, Start Num: 84
Candidate Starts for Yokurt_92:
(43, 48517), (Start: 84 @48415 has 71 MA's), (Start: 93 @48394 has 8 MA's), (Start: 99 @48349 has 1 MA's), (101, 48337), (110, 48283), (115, 48268), (116, 48259), (117, 48256), (123, 48196), (124, 48193), (151, 48103), (157, 48070),

Gene: Zaka_93 Start: 48415, Stop: 48035, Start Num: 84
Candidate Starts for Zaka_93:
(43, 48517), (Start: 84 @48415 has 71 MA's), (Start: 93 @48394 has 8 MA's), (Start: 99 @48349 has 1 MA's), (101, 48337), (110, 48283), (115, 48268), (116, 48259), (117, 48256), (123, 48196), (124, 48193), (151, 48103), (157, 48070),

Gene: Zarafa_83 Start: 47817, Stop: 47398, Start Num: 71
Candidate Starts for Zarafa_83:
(29, 47943), (Start: 71 @47817 has 13 MA's), (Start: 84 @47787 has 71 MA's), (Start: 99 @47736 has 1 MA's), (118, 47622), (123, 47586), (156, 47451),

Gene: Zemlya_67 Start: 45998, Stop: 45627, Start Num: 89
Candidate Starts for Zemlya_67:
(56, 46073), (Start: 89 @45998 has 34 MA's), (Start: 103 @45938 has 1 MA's), (109, 45899), (120, 45824), (124, 45800), (126, 45791), (148, 45704), (152, 45680), (158, 45659),

Gene: Zetzy_78 Start: 45245, Stop: 44823, Start Num: 73
Candidate Starts for Zetzy_78:
(Start: 73 @45245 has 21 MA's), (96, 45182), (107, 45128), (156, 44885), (166, 44840),

Gene: Zimmer_82 Start: 48548, Stop: 48165, Start Num: 84
Candidate Starts for Zimmer_82:
(32, 48698), (39, 48662), (50, 48626), (Start: 84 @48548 has 71 MA's), (Start: 93 @48527 has 8 MA's), (107, 48437), (116, 48392), (117, 48389), (118, 48365), (123, 48329), (124, 48326), (130, 48308),

Gene: Zulu_94 Start: 48792, Stop: 48412, Start Num: 84
Candidate Starts for Zulu_94:
(43, 48894), (Start: 84 @48792 has 71 MA's), (Start: 93 @48771 has 8 MA's), (Start: 99 @48726 has 1 MA's), (101, 48714), (110, 48660), (115, 48645), (116, 48636), (117, 48633), (123, 48573), (124, 48570), (151, 48480), (157, 48447),