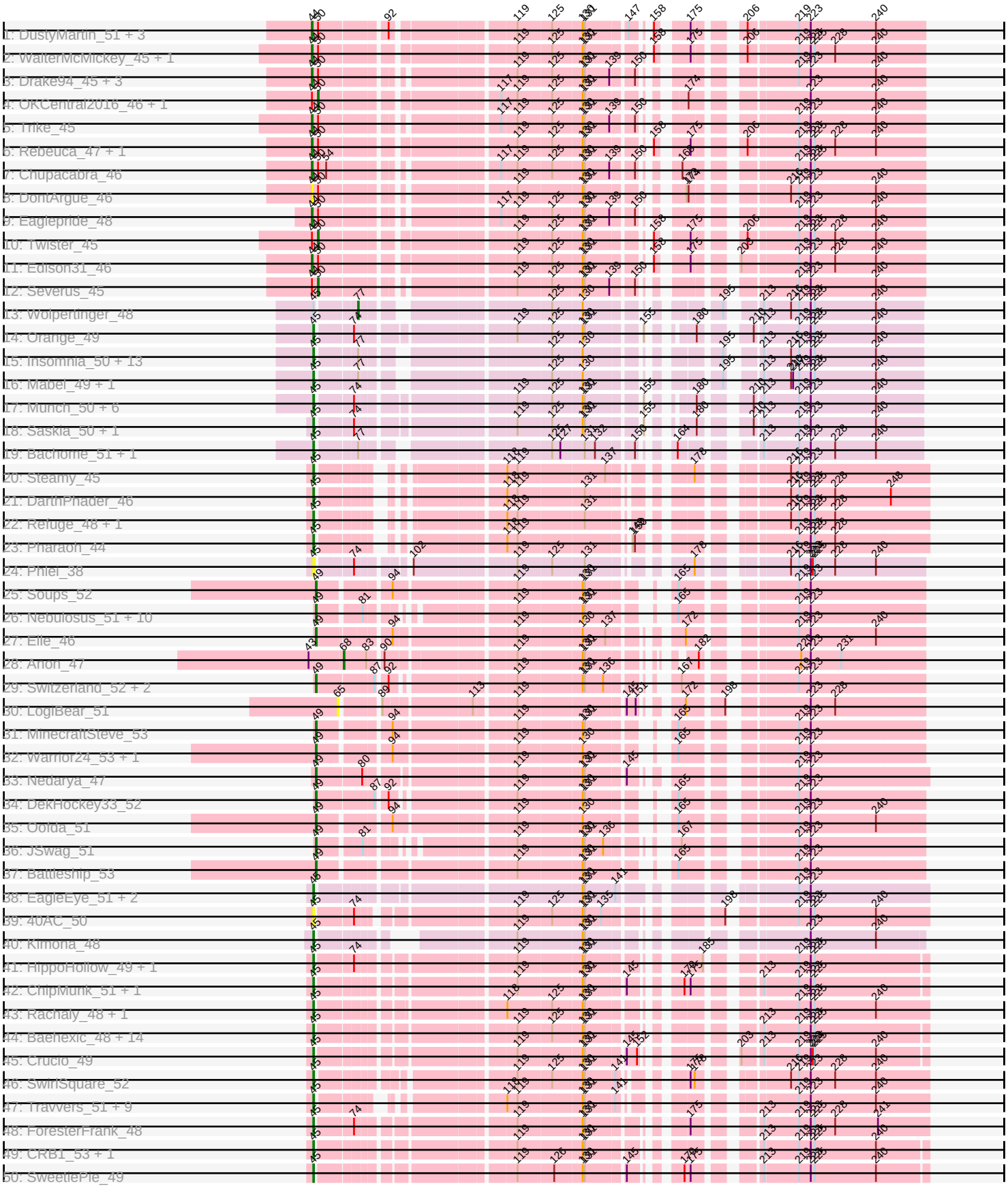
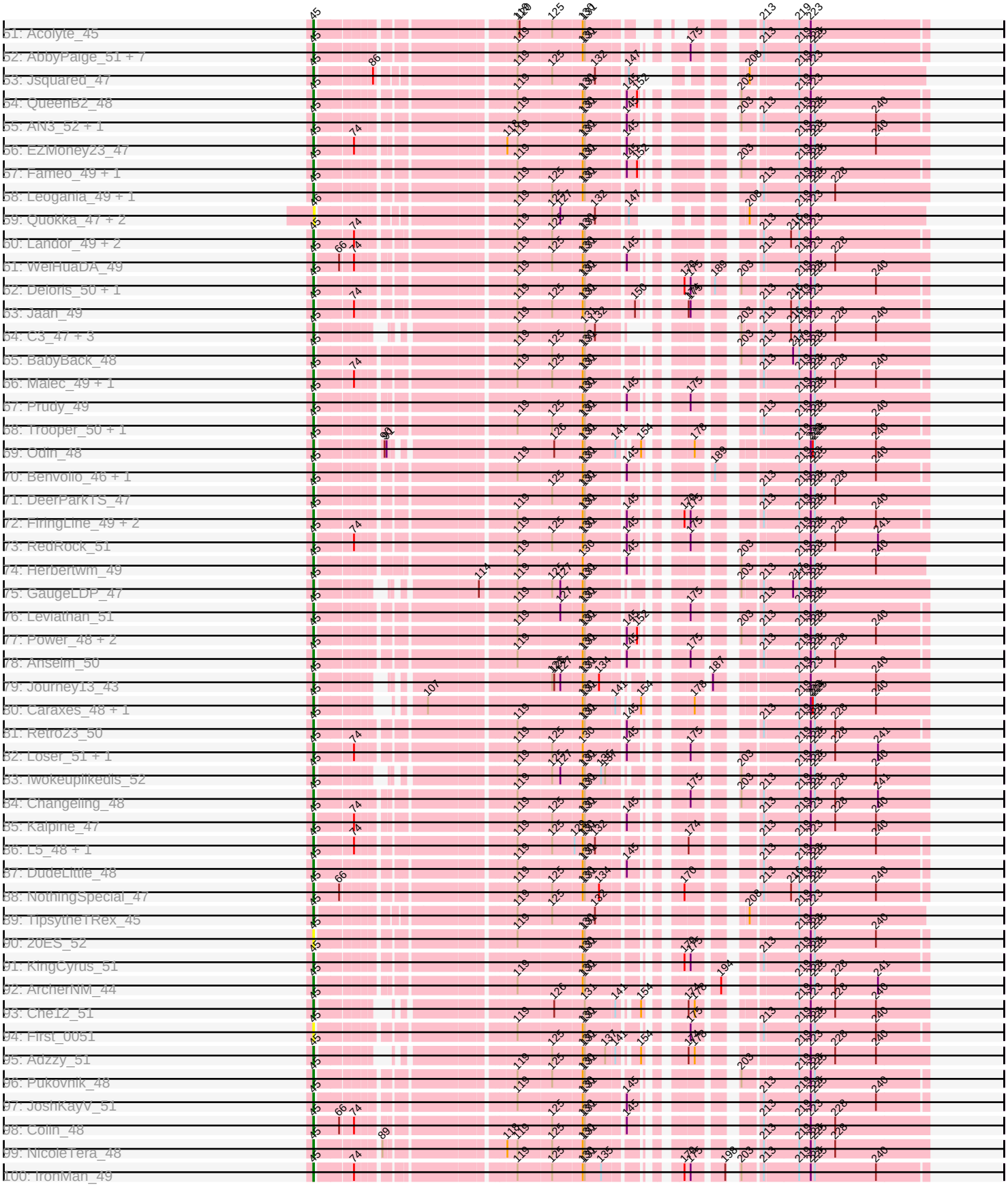
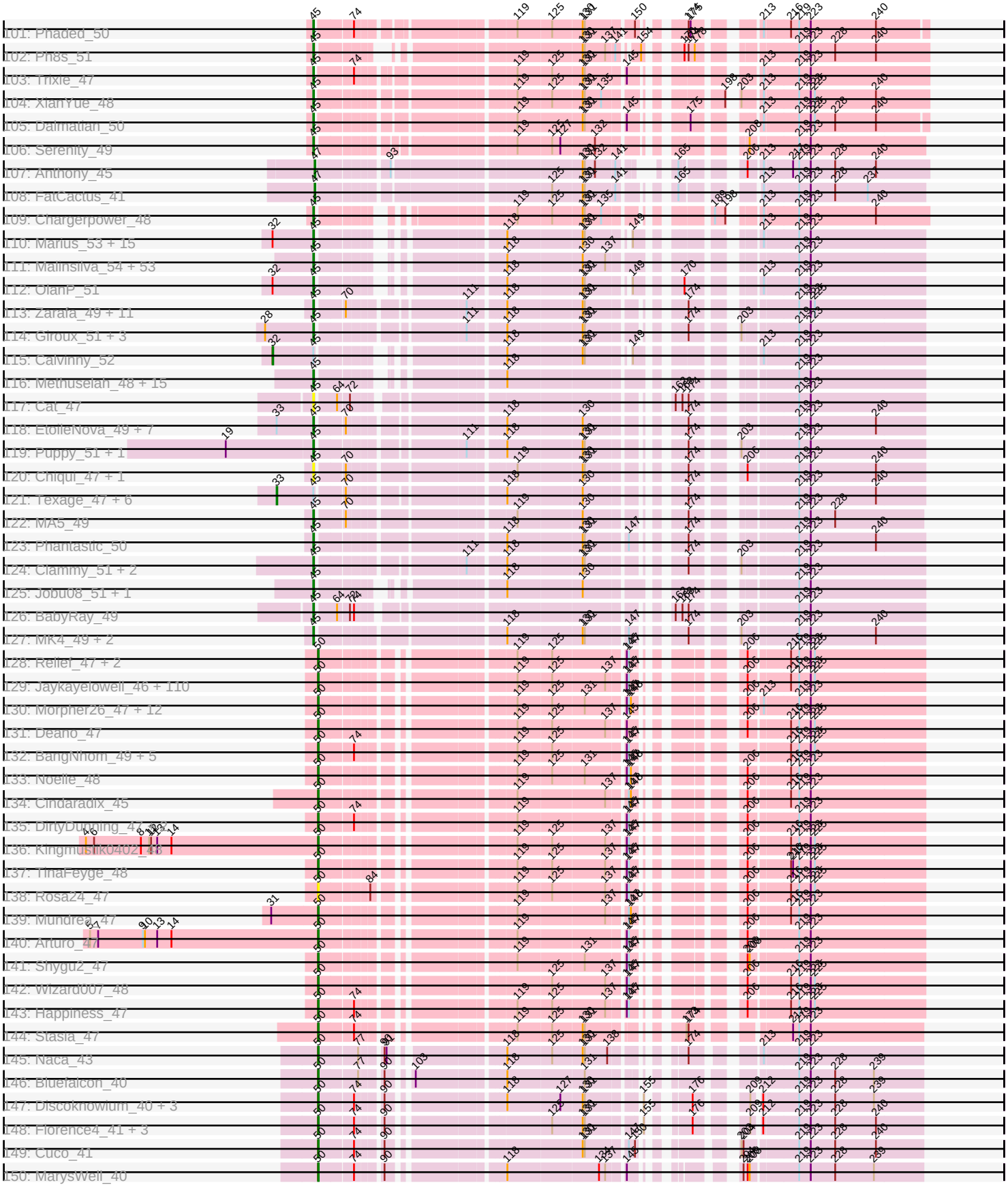
# Pham 343440


1: DustyMartin_51 + 3
2: WalterMcMickey_45 + 1
3: Drake94_45 + 3
4: OKCentral2016_46 + 1
5: Trike_45
6: Rebeuca_47 + 1
7: Chupacabra_46
8: DontArgue_46
9: Eaglepride_48
10: Twister_45
11: Edison31_46
12: Severus_45
13: Wolpertinger_48
14: Orange_49
15: Insomnia_50 + 13
16: Mabel_49 + 1
17: Munch_50 + 6
18: Saskia_50 + 1
19: Bachome_51 + 1
20: Steamy_45
21: DarthPhader_46
22: Refuge_48 + 1
23: Pharaoh_44
24: Phiel_38
25: Soups_52
26: Nebulosus_51 + 10
27: Elle_46
28: Anon_47
29: Switzerland_52 + 2
30: LogiBear_51
31: MinecraftSteve_53
32: Warrior24_53 + 1
33: Nedarya_47
34: DekHockey33_52
35: Oolda_51
36: JSwag_51
37: Battleship_53
38: EagleEye_51 + 2
39: 40AC_50
40: Kimona_48
41: HippoHollow_49 + 1
42: ChipMunk_51 + 1
43: Rachaly_48 + 1
44: Baehexic_48 + 14
45: Crucio_49
46: SwimSquare_52
47: Travvers_51 + 9
48: ForesterFrank_48
49: CRB1_53 + 1
50: SweetiePie_49

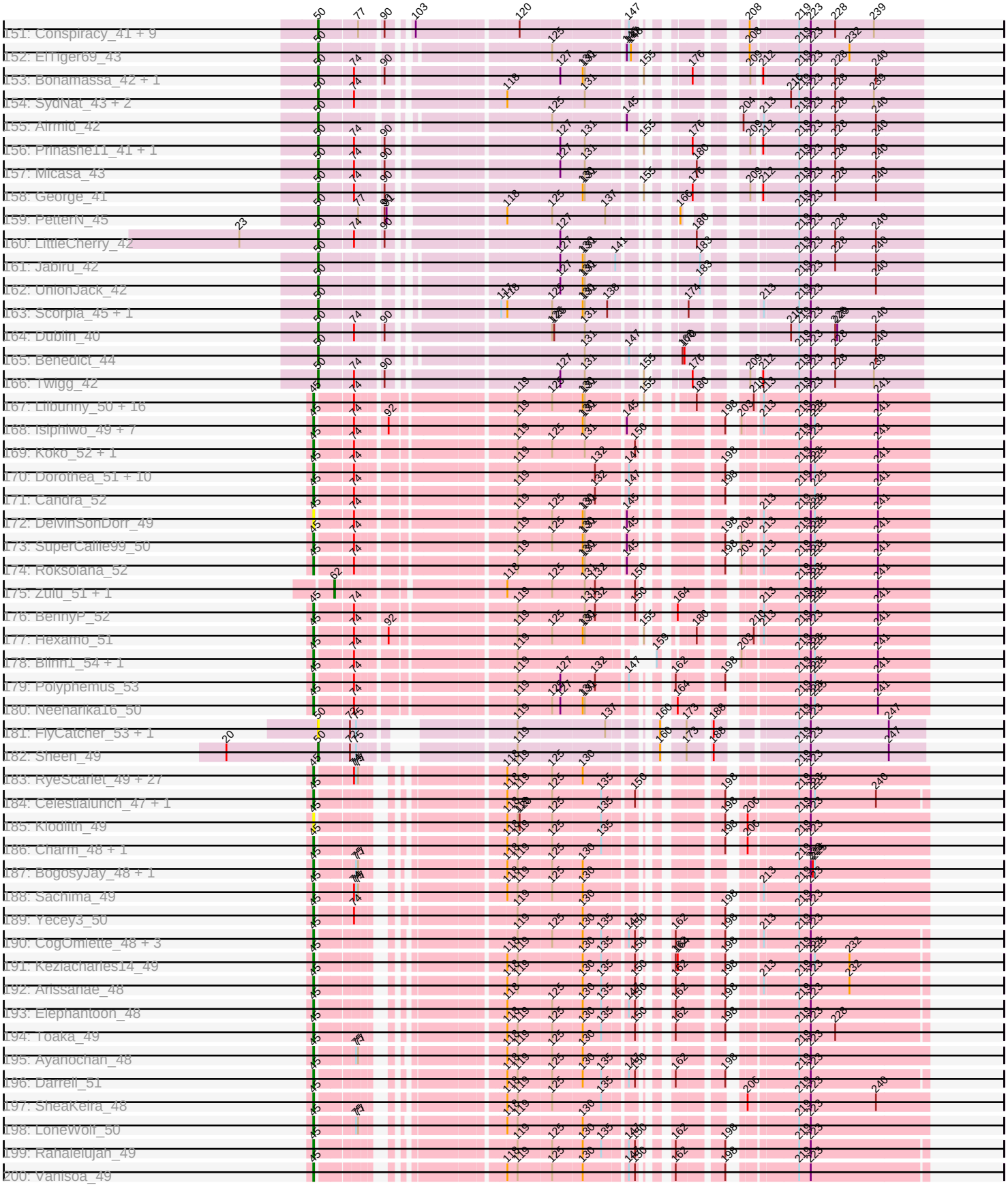
# Pham 343440


51: Acolyte_45
52: AbbyPaige_51 + 7
53: Jsquared_47
54: QueenB2_48
55: AN3_52 + 1
56: EZMoney23_47
57: Fameo_49 + 1
58: Leogania_49 + 1
59: Quokka_47 + 2
60: Landor_49 + 2
61: WeiHuaDA_49
62: Delons_50 + 1
63: Jaan_49
64: C3_47 + 3
65: BabyBack_48
66: Malec_49 + 1
67: Prudy_49
68: Trooper_50 + 1
69: Odin_48
70: Benvolio_46 + 1
71: DeerParkTS_47
72: FiringLine_49 + 2
73: RedRock_51
74: Herbertwm_49
75: GaugeLDP_47
76: Leviathan_51
77: Power_48 + 2
78: Anselm_50
79: Journey13_43
80: Caraxes_48 + 1
81: Retro23_50
82: Loser_51 + 1
83: Iwokeuplikedis_52
84: Changeling_48
85: Kalpine_47
86: L5_48 + 1
87: DudeLittle_48
88: NothingSpecial_47
89: TipsytheTRex_45
90: 20ES_52
91: KingCyrus_51
92: ArcherNM_44
93: Che12_51
94: First_0051
95: Adzzy_51
96: Pukovnik_48
97: JoshKayV_51
98: Colin_48
99: NicoleTera_48
100: IronMan_49

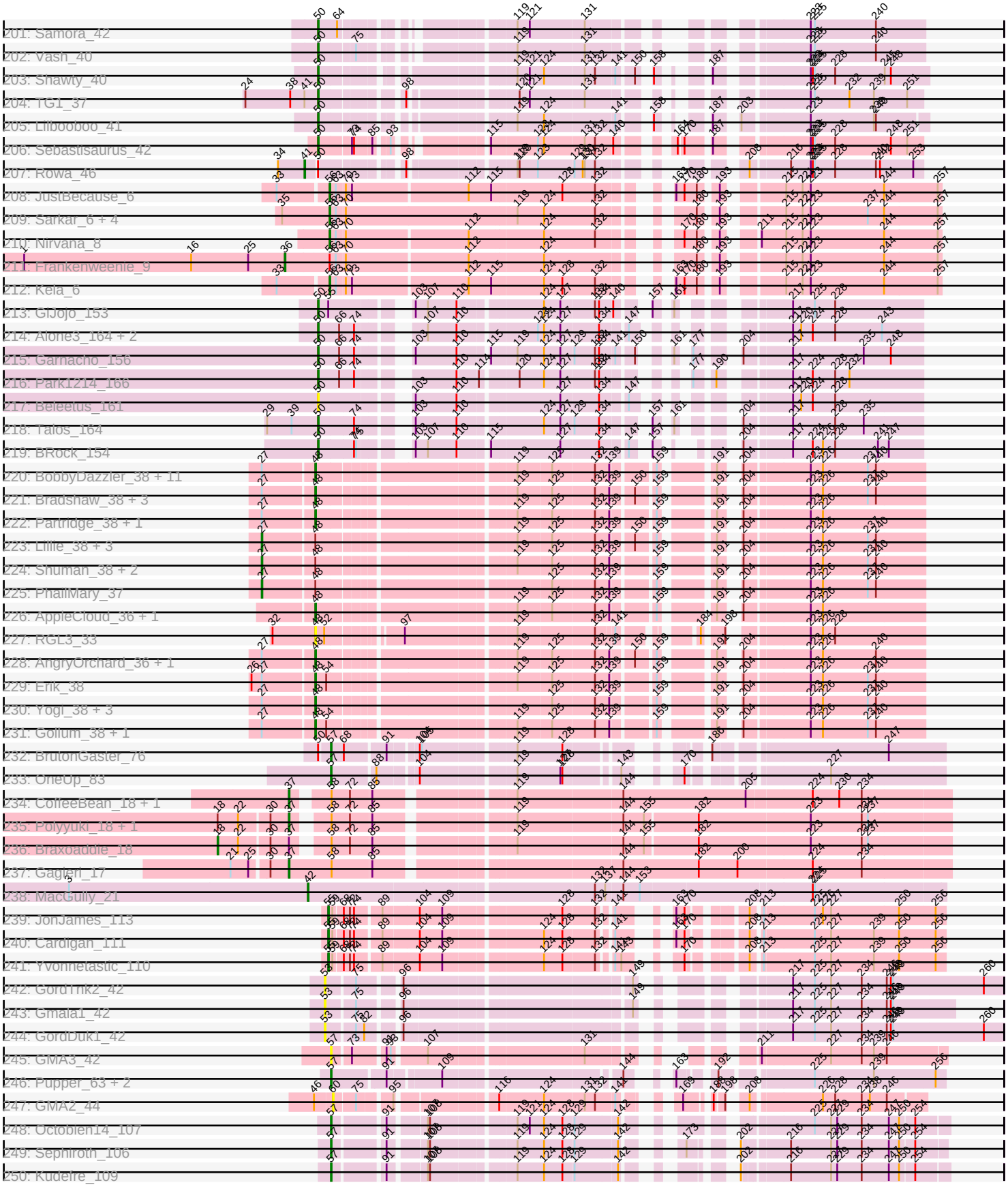
# Pham 343440



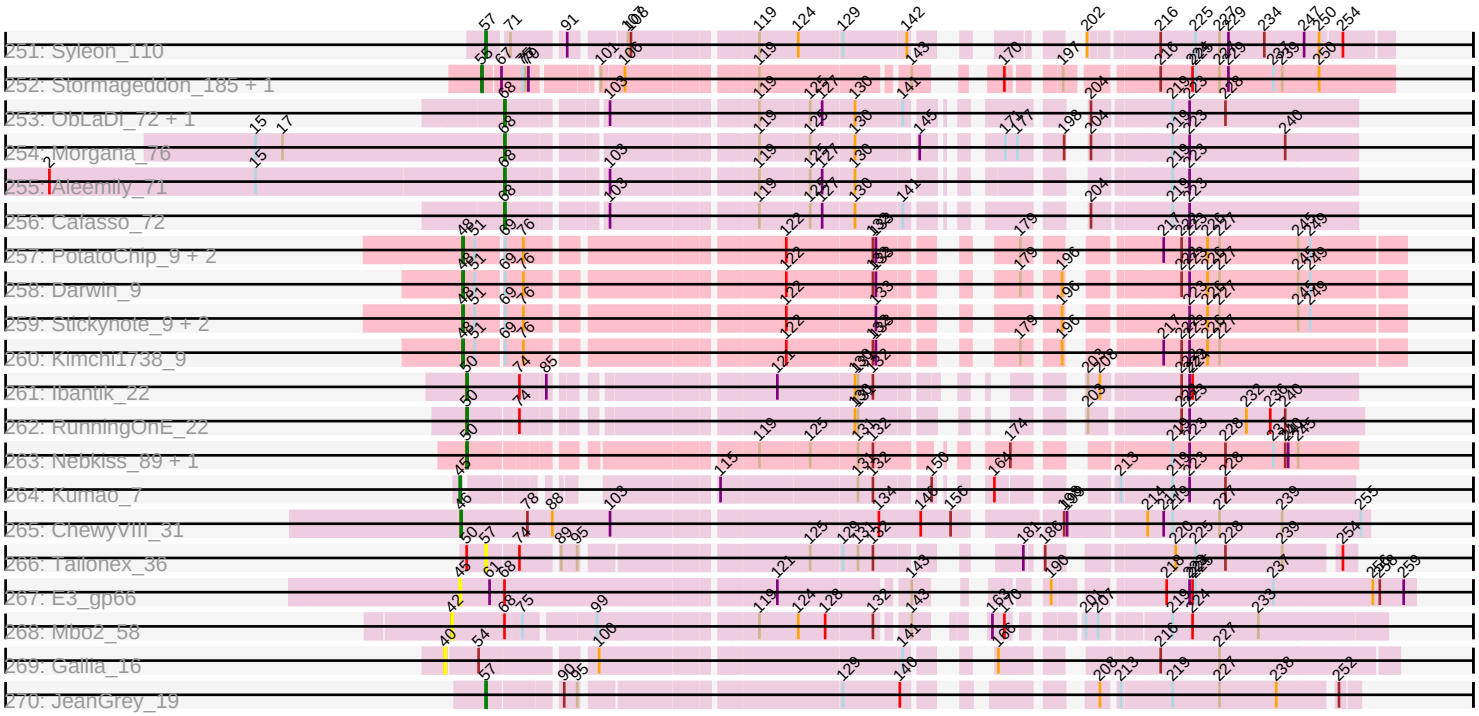
# Pham 343440


151: Conspiracy_41 + 9
152: ElTiger69_43
153: Bonamassa_42 + 1
154: SydNat_43 + 2
155: Airmid_42
156: Prinashe11_41 + 1
157: Micasa_43
158: George_41
159: PetterN_45
160: LittleCherry_42
161: Jabiru_42
162: UnionJack_42
163: Scorpia_45 + 1
164: Dublin_40
165: Benedict_44
166: Twigg_42
167: Llibunny_50 + 16
168: Isiphiwo_49 + 7
169: Koko_52 + 1
170: Dorothea_51 + 10
171: Candra_52
172: DelvinSonDorr_49
173: SuperCallie99_50
174: Roksolana_52
175: Zulu_51 + 1
176: BennyP_52
177: Hexamo_51
178: Blinn1_54 + 1
179: Polyphemus_53
180: Neeharika16_50
181: FlyCatcher_53 + 1
182: Sheen_49
183: RyeScarlet_49 + 27
184: Celestialunch_47 + 1
185: Klodilth_49
186: Charm_48 + 1
187: BogosyJay_48 + 1
188: Sachima_49
189: Yecey3_50
190: CogOmlette_48 + 3
191: Keziacharles14_49
192: Anissanae_48
193: Elephantoon_48
194: Toaka_49
195: Ayanochan_48
196: Darrell_51
197: SneaKeira_48
198: LoneWolf_50
199: Rahalelujah_49
200: Vanisoa_49

# Pham 343440


201: Samora_42
202: Vash_40
203: Shawty_40
204: TG1_37
205: Lilboobboo_41
206: Sebastisaurus_42
207: Rowa_46
208: JustBecause_6
209: Sarkar_6 + 4
210: Nirvana_8
211: Frankenweenie_9
212: Kela_6
213: GIJojo_153
214: Alone3_164 + 2
215: Garnacho_156
216: Park1214_166
217: Beleetus_161
218: Talos_164
219: BRock_154
220: BobbyDazzler_38 + 11
221: Bradshaw_38 + 3
222: Partridge_38 + 1
223: Lillie_38 + 3
224: Shuman_38 + 2
225: PhallMary_37
226: AppleCloud_36 + 1
227: RGL3_33
228: AngryOrchard_36 + 1
229: Erik_38
230: Yogi_38 + 3
231: Gollum_38 + 1
232: BrutonGaster_76
233: OneUp_83
234: CoffeeBean_18 + 1
235: Polyyuki_18 + 1
236: Braxoaddie_18
237: Gagiari_17
238: MacGully_21
239: JonJames_113
240: Cardigan_111
241: Yvonnetastic_110
242: GordTrik2_42
243: Gmala1_42
244: GordDuk1_42
245: GMA3_42
246: Pupper_63 + 2
247: GMA2_44
248: Octobien14_107
249: Sephiroth_106
250: Kudeire_109

# Pham 343440


251: Syleon_110
252: Stormageddon_185 + 1
253: ObLaDi_72 + 1
254: Morgana_76
255: Aleemily_71
256: Calasso_72
257: PotatoChip_9 + 2
258: Darwin_9
259: Stickynote_9 + 2
260: Kimchi1738_9
261: Ibantik_22
262: RunningOnE_22
263: Nebkiss_89 + 1
264: Kumao_7
265: ChewyVim_31
266: Tallonex_36
267: E3_gp66
268: Mbo2_58
269: Galla_16
270: JeanGrey_19

Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

# Pham 343440 Report

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

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 343440 has 753 members, 57 are drafts.

Phages represented in each track:
• Track 1 : DustyMartin_51, Shapes_51, Rowdy_51, RhynO_48
• Track 2 : WalterMcMickey_45, Topanga_45
• Track 3 : Drake94_45, Poompha_46, PeaceMeal1_45, KittenMittens_44
• Track 4 : OKCentral2016_46, Goose_47
• Track 5 : Trike_45
• Track 6 : Rebeuca_47, Kristoff_47
• Track 7 : Chupacabra_46
• Track 8 : DontArgue_46
• Track 9 : Eaglepride_48
• Track 10 : Twister_45
• Track 11 : Edison31_46
• Track 12 : Severus_45
• Track 13 : Wolpertinger_48
• Track 14 : Orange_49
• Track 15 : Insomnia_50, Snape_49, Sham4_49, TinyTimmy_49, Et2Brutus_48, Fibonacci_49, Bud_49, Mulciber_49, Petersenfast_49, Jabith_50, Kimba_49, Hutc2_49, Ebony_49, Salz_48
• Track 16 : Mabel_49, Timothy_49
• Track 17 : Munch_50, Bowtie_50, Aneem_50, Gilberta_50, Joselito_50, Flaverint_50, Lucivia_50
• Track 18 : Saskia_50, MissWhite_48
• Track 19 : Bachome_51, MaCh_50
• Track 20 : Steamy_45
• Track 21 : DarthPhader_46
• Track 22 : Refuge_48, Zimmer_46
• Track 23 : Pharaoh_44
• Track 24 : Phlei_38
• Track 25 : Soups_52
• Track 26 : Nebulosus_51, KatherineG_53, Anaysia_52, LastResort_51, Epsocamisio_50, Remus_52, ReMo_51, Looper_52, Strosahl_52, Boohoo_52, ShayRa_53
• Track 27 : Elle_46
• Track 28 : Anon_47

• Track 29 : Switzerland_52, Rosalind_51, Waits_52
• Track 30 : LogiBear_51
• Track 31 : MinecraftSteve_53
• Track 32 : Warrior24_53, Ravana_53
• Track 33 : Nedarya_47
• Track 34 : DekHockey33_52
• Track 35 : Oofda_51
• Track 36 : JSwag_51
• Track 37 : Battleship_53
• Track 38 : EagleEye_51, PainterBoy_50, Lucyedi_50
• Track 39 : 40AC_50
• Track 40 : Kimona_48
• Track 41 : HippoHollow_49, LionsBait_49
• Track 42 : ChipMunk_51, EvilGenius_51
• Track 43 : Rachaly_48, Miko_46
• Track 44 : Baehexic_48, Updawg_50, WideWale_50, Bugsy_51, Centaur_50, Terrific_50, Sknot_49, NaSiaTalie_49, Flare16_49, Gratitude_50, Drake55_51, MiculUcigas_49, Equemioh13_50, Piro94_49, HarryHoudini_50
• Track 45 : Crucio_49
• Track 46 : SwirlSquare_52
• Track 47 : Travvers_51, DBQu4n_51, D29_48, Pomar16_51, Naji_51, D32_50, Tomathan_51, Kerberos_51, Duplo_51, StarStuff_51
• Track 48 : ForesterFrank_48
• Track 49 : CRB1_53, LadyBird_54
• Track 50 : SweetiePie_49
• Track 51 : Acolyte_45
• Track 52 : AbbyPaige_51, Agape74_51, Turbido_50, Jerm_51, Dignity_51, Smeagan_52, Whabigail7_50, LilTurb_50
• Track 53 : Jsquared_47
• Track 54 : QueenB2_48
• Track 55 : AN3_52, VA6_50
• Track 56 : EZMoney23_47
• Track 57 : Fameo_49, Heffalump_48
• Track 58 : Leogania_49, BiancaTri92_49
• Track 59 : Quokka_47, Bradman_48, MajorMajor_48
• Track 60 : Landor_49, Bactobuster_48, Tristan_48
• Track 61 : WeiHuaDA_49
• Track 62 : Deloris_50, BengiVuitton_51
• Track 63 : Jaan_49
• Track 64 : C3_47, VC3_52, AN9_52, ANI8_52
• Track 65 : BabyBack_48
• Track 66 : Malec_49, Larenn_48
• Track 67 : Prudy_49
• Track 68 : Trooper_50, TarsusIV_48
• Track 69 : Odin_48
• Track 70 : Benvolio_46, Echild_49
• Track 71 : DeerParkTS_47
• Track 72 : FiringLine_49, SemperFi_50, QueenBeesly_49
• Track 73 : RedRock_51
• Track 74 : Herbertwm_49
• Track 75 : GaugeLDP_47
• Track 76 : Leviathan_51
• Track 77 : Power_48, Georgie2_50, SnapTap_49

• Track 78 : Anselm_50
• Track 79 : Journey13_43
• Track 80 : Caraxes_48, Superchunk_48
• Track 81 : Retro23_50
• Track 82 : Loser_51, AnnaL29_51
• Track 83 : Iwokeuplikedis_52
• Track 84 : Changeling_48
• Track 85 : Kalpine_47
• Track 86 : L5_48, Koduck_50
• Track 87 : DudeLittle_48
• Track 88 : NothingSpecial_47
• Track 89 : TipsytheTRex_45
• Track 90 : 20ES_52
• Track 91 : KingCyrus_51
• Track 92 : ArcherNM_44
• Track 93 : Che12_51
• Track 94 : First_0051
• Track 95 : Adzzy_51
• Track 96 : Pukovnik_48
• Track 97 : JoshKayV_51
• Track 98 : Colin_48
• Track 99 : NicoleTera_48
• Track 100 : IronMan_49
• Track 101 : Phaded_50
• Track 102 : Ph8s_51
• Track 103 : Trixie_47
• Track 104 : XianYue_48
• Track 105 : Dalmatian_50
• Track 106 : Serenity_49
• Track 107 : Anthony_45
• Track 108 : FatCactus_41
• Track 109 : Chargerpower_48
• Track 110 : Marius_53, Phranny_53, HaveUMetTed_53, PurpleHaze_52, ClownCar_52, JeppNRM_53, Pawn_52, Heliosoles_51, Manu_52, PhishRPhriends_50, Kalb97_53, ACFishhook_51, Kalnoky_53, Groupthink_53, Gemma_51, Reba_52
• Track 111 : Malinsilva_54, Wooldri_54, Pembroke_52, MarQuardt_52, Lilith_53, MadMarie_52, StepMih_52, Marie_52, GingkoMaracino_52, Anubis_55, LugYA_55, Tiffany_52, Montavir_51, PGHhamlin_54, PotatoSplit_54, Lowa_52, SoYo_52, JHC117_52, Bigflo_52, Zetzy_51, Hercules11_52, Microwolf_52, Fernando_52, Gwennie_52, MuchMore_55, Colbster_52, Grif_52, DaHudson_52, Sabinator_51, Croquant_53, BreSam8_52, Grum1_52, Ollie_52, Phoebe_53, Dieselweasel_53, Taurus_53, GtownJaz_52, Aglet_53, Vix_52, Penny1_53, Stagni_52, MoneyMay_52, EpicPhail_53, Mainiac_52, Cullens_52, P28Green_53, Sabia_52, AugsMagnumOpus_55, Snickers_52, Watson_52, Grub_52, LBerry_53, Beauxregard13_52, JenCasNa_53
• Track 112 : OlanP_51
• Track 113 : Zarafa_49, Heathen_49, Kachowdy_49, DropBear_49, Goose1D_43, Roimos_49, Goose1X_49, Fred313_49, Marchesa_49, Shep_49, HelDan_49, Scout_49
• Track 114 : Giroux_51, Pistachio_51, BlueBird_51, Idleandcovert_50
• Track 115 : Calvinny_52

• Track 116 : Methuselah_48, BuzzBuzz_50, Daishi_51, Farber_52, TinyPebbles_51, HashRod_53, Misomonster_53, LarryKay_52, Spike509_52, AgronaGT15_51, Rummer_51, KADY_52, Louie6_51, Phoxy_52, Soshari_54, Bxz2_48
• Track 117 : Cat_47
• Track 118 : EtoileNova_49, Pocahontas_48, Popcicle_48, Noella_48, Hookmount_48, Norbert_47, Panamaxus_46, ResDef_48
• Track 119 : Puppy_51, TNguyen7_50
• Track 120 : Chiqui_47, BabyJohn_47
• Track 121 : Texage_47, Caviar_48, Margo_48, QuinnKiro_47, Veracruz_47, Lambert1_48, Todacoro_48
• Track 122 : MA5_49
• Track 123 : Phantastic_50
• Track 124 : Clammy_51, SaturnRing_50, Bugatti_51
• Track 125 : Jobu08_51, SoilDragon_52
• Track 126 : BabyRay_49
• Track 127 : MK4_49, Isca_48, Rockstar_49
• Track 128 : Relief_47, Lemur_48, Iceman_48
• Track 129 : Jaykayelowell_46, Sultana_48, HamSlice_47, RockieBear_48, KekoraPapaka_48, Nemo27_48, Wander_48, Blackmoor_48, Phelipe_49, Clarenza_47, Shaka_48, SteMason_47, Ohfah_49, Annyong_48, Palestino_47, Thanksgivukkah_47, Baby16_48, Huxley_47, LappelDuVide_48, Tinybot_47, Broseidon_48, Abdiel_48, Cocoaberry_48, Koreni_47, Skipitt_47, Gadost_48, Nebs_49, Avle17_48, NotAPhaseMom_48, CentreCat_48, Nyxis_48, Funston_47, Morrow_49, Bruiser_47, Iracema64_49, Houdini22_48, Connomayer_48, Junimo_47, Sparxx_49, Pumbaa_48, JetBlade_48, BubbleTrouble_47, Skadoosh_49, LochMonster_49, Kremtemulon_48, Florean_48, LeoAvram_48, Roosevelt_47, PeterPeter_48, MeeZee_48, Spino_47, Bombshell_48, Pipcraft_46, Dhanush_48, NorthStar_47, Ruin_48, Flux_48, Alberto7_49, BellusTerra_49, KFPoly_47, Romney_48, Camperdownii_46, Scamp_48, Druantia_48, Eros_48, LittleGuy_48, Holli_47, Eapen_48, Citius_48, Phontbonne_48, Kampy_48, Kyee_48, OKaNui_48, Buckaroo_47, ICleared_48, Melvin_50, Wilbur_48, Rocksand_48, SenorClean_48, Chaph_48, JoongJeon_47, Ulysses_47, Mazhar510_48, Mayonnaise_47, TygerBlood_48, Millski_47, LittleB_48, Caelakin_48, TroyPia_49, Medusa_48, Phacado_48, Koan_46, Peaches_48, Sabertooth_48, Lunsford_49, Bartimeaus_48, Eurydice_49, Burger_46, Albee_48, Cintron_47, Maxo_49, Eris_47, Maverick_48, Eagle_48, Commander_48, TiroTheta9_48, Lorenzo_48, Northrop_48, Polymorphads_49, Taquarus_48, YoSam321_48
• Track 130 : Morpher26_47, Cici_47, Xena_46, Datway_47, PetiteSangsue_47, Perplexer_47, Achebe_46, Badger_46, Bumblebee11_46, AbbysRanger_47, Backyardigan_46, Wile_47, Katalie136_47
• Track 131 : Deano_47
• Track 132 : BangNhom_49, LHTSCC_50, Obama12_49, Cerulean_49, ChampagnePapi_50, SheldonCooper_50
• Track 133 : Noelle_48
• Track 134 : Cindaradix_45
• Track 135 : DirtyDunning_47, Phighter1804_48, Kratark_48
• Track 136 : Kingmustik0402_48
• Track 137 : TinaFeyge_48
• Track 138 : Rosa24_47
• Track 139 : Mundrea_47
• Track 140 : Arturo_47
• Track 141 : Shygu2_47
• Track 142 : Wizard007_48

• Track 143 : Happiness_47
• Track 144 : Stasia_47
• Track 145 : Naca_43
• Track 146 : Bluefalcon_40
• Track 147 : Discoknowium_40, Aragog_40, Phlorence_40, Archetta_41
• Track 148 : Florence4_41, Florence1_40, HuhtaEnerson15_42, Milcery_42
• Track 149 : Cuco_41
• Track 150 : MarysWell_40
• Track 151 : Conspiracy_41, Coog_41, ForGetIt_41, Midas2_41, AgentM_40, Tiger_40, Jovo_41, PickleBack_41, Lev2_41, Theia_39
• Track 152 : ElTiger69_43
• Track 153 : Bonamassa_42, Swirley_44
• Track 154 : SydNat_43, Ghoulboy_43, Zolita_42
• Track 155 : Airmid_42
• Track 156 : Prinashe11_41, Tarynearal_40
• Track 157 : Micasa_43
• Track 158 : George_41
• Track 159 : PetterN_45
• Track 160 : LittleCherry_42
• Track 161 : Jabiru_42
• Track 162 : UnionJack_42
• Track 163 : Scorpia_45, Chadwick_45
• Track 164 : Dublin_40
• Track 165 : Benedict_44
• Track 166 : Twigg_42
• Track 167 : Lilbunny_50, Wiks_50, Indra_54, Zaka_51, BlessJoy_52, Gruunaga_51, Jeffabunny_51, Artemis2UCLA_51, WunderPhul_51, ToneTone_48, Temprado_52, CloudWang3_51, Helmet_53, Garak_53, Hammer_52, Rifter_52, Yokurt_51
• Track 168 : Isiphiwo_49, Jordennis_51, Newrala_51, Cookiedough_51, Imbriano_52, SuperAwesome_51, Gladiator_49, Pmask_51
• Track 169 : Koko_52, Blue7_53
• Track 170 : Dorothea_51, Chartreuse_50, DaVinci_50, SmellyB_51, Kipper29_51, GreedyLawyer_51, McFly_51, JewelBug_52, VohminGhazi_51, Kazan_52, EricB_51
• Track 171 : Candra_52
• Track 172 : DelvinSonDorr_49
• Track 173 : SuperCallie99_50
• Track 174 : Roksolana_52
• Track 175 : Zulu_51, Tucker_51
• Track 176 : BennyP_52
• Track 177 : Hexamo_51
• Track 178 : Blinn1_54, Priamo_53
• Track 179 : Polyphemus_53
• Track 180 : Neeharika16_50
• Track 181 : FlyCatcher_53, Toro_51
• Track 182 : Sheen_49
• Track 183 : RyeScarlet_49, EmyBug_48, PackMan_48, Hanray_49, Scherzo_49, Fayely_49, Eidsmoe_49, Ugenie5_46, Conquerage_49, Phonnegut_49, Qobbit_49, Pioneer_49, Phaeder_49, ExplosioNervosa_49, HortumSL17_49, Jiawan_49, Tubs_49, Holex_49, Spouty_49, Myxus_49, Lilleskat_49, Beemo_49, Priya_49, Onglai_48, EdogawaKiddo_49, Aliter_49, Alma_49, Catalina_50
• Track 184 : Celestialunch_47, MegTheThird_48
• Track 185 : Klodlith_49
• Track 186 : Charm_48, DreamTeam1_48

• Track 187 : BogosyJay_48, Maminiaina_48
• Track 188 : Sachima_49
• Track 189 : Yecey3_50
• Track 190 : CogOmlette_48, Minispark_48, WorldCup_48, Bellris_49
• Track 191 : Keziacharles14_49
• Track 192 : Arissanae_48
• Track 193 : Elephantoon_48
• Track 194 : Toaka_49
• Track 195 : Ayanochan_48
• Track 196 : Darrell_51
• Track 197 : SheaKeira_48
• Track 198 : LoneWolf_50
• Track 199 : Rahalelujah_49
• Track 200 : Vanisoa_49
• Track 201 : Samora_42
• Track 202 : Vash_40
• Track 203 : Shawty_40
• Track 204 : TG1_37
• Track 205 : Lilbooboo_41
• Track 206 : Sebastisaurus_42
• Track 207 : Rowa_46
• Track 208 : JustBecause_6
• Track 209 : Sarkar_6, EhyElimayoE_6, Quantum_6, Satis_6, Kradal_6
• Track 210 : Nirvana_8
• Track 211 : Frankenweenie_9
• Track 212 : Kela_6
• Track 213 : GiJojo_153
• Track 214 : Alone3_164, LuckySocke_162, Fudan_160
• Track 215 : Garnacho_156
• Track 216 : Park1214_166
• Track 217 : Beleetus_161
• Track 218 : Talos_164
• Track 219 : BRock_154
• Track 220 : BobbyDazzler_38, Bryce_38, Natosaleda_38, Nancinator_38, Jester_38, RexFury_38, Rasputin_38, Harlequin_38, Swann_38, Hiro_38, UhSalsa_38, Yoncess_38
• Track 221 : Bradshaw_38, Naiad_38, StCroix_38, Alatin_38
• Track 222 : Partridge_38, Dinger_38
• Track 223 : Lillie_38, Rhodalysa_38, CosmicSans_38, TWAMP_38
• Track 224 : Shuman_38, Espica_38, Belenaria_38
• Track 225 : PhailMary_37
• Track 226 : AppleCloud_36, Krishelle_38
• Track 227 : RGL3_33
• Track 228 : AngryOrchard_36, Takoda_38
• Track 229 : Erik_38
• Track 230 : Yogi_38, RER2_31, Alpacados_37, Bonanza_38
• Track 231 : Gollum_38, Phrankenstein_38
• Track 232 : BrutonGaster_76
• Track 233 : OneUp_83
• Track 234 : CoffeeBean_18, Maselop_18
• Track 235 : Polyyuki_18, Apiary_18
• Track 236 : Braxoaddie_18
• Track 237 : Gagieri_17

• Track 238 : MacGully_21
• Track 239 : JonJames_113
• Track 240 : Cardigan_111
• Track 241 : Yvonnetastic_110
• Track 242 : GordTnk2_42
• Track 243 : Gmala1_42
• Track 244 : GordDuk1_42
• Track 245 : GMA3_42
• Track 246 : Pupper_63, CherryTomatoes_64, SCentae_62
• Track 247 : GMA2_44
• Track 248 : Octobien14_107
• Track 249 : Sephiroth_106
• Track 250 : Kudefre_109
• Track 251 : Syleon_110
• Track 252 : Stormageddon_185, RedWattleHog_184
• Track 253 : ObLaDi_72, ModicumRichard_72
• Track 254 : Morgana_76
• Track 255 : Aleemily_71
• Track 256 : Cafasso_72
• Track 257 : PotatoChip_9, Zion_9, PeteyPab_9
• Track 258 : Darwin_9
• Track 259 : Stickynote_9, C3PO_9, Cruella_9
• Track 260 : Kimchi1738_9
• Track 261 : Ibantik_22
• Track 262 : RunningOnE_22
• Track 263 : Nebkiss_89, Gaia_90
• Track 264 : Kumao_7
• Track 265 : ChewyVIII_31
• Track 266 : Tailonex_36
• Track 267 : E3_gp66
• Track 268 : Mbo2_58
• Track 269 : Gallia_16
• Track 270 : JeanGrey_19

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

The start number called the most often in the published annotations is 45, it was called in 359 of the 696 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• 20ES_52, 40AC_50, ACFishhook_51, AN3_52, AN9_52, ANI8_52, AbbyPaige_51, Acolyte_45, Adzzy_51, Agape74_51, Aglet_53, AgronaGT15_51, Aliter_49, Alma_49, Aneem_50, AnnaL29_51, Anselm_50, Anubis_55, ArcherNM_44, Arissanae_48, Artemis2UCLA_51, AugsMagnumOpus_55, Ayanochan_48, BabyBack_48, BabyJohn_47, BabyRay_49, Bachome_51, Bactobuster_48, Baehexic_48, Beauxregard13_52, Beemo_49, Bellris_49, BengiVuitton_51, BennyP_52, Benvolio_46, BiancaTri92_49, Bigflo_52, BlessJoy_52, Blinn1_54, Blue7_53, BlueBird_51, BogosyJay_48, Bowtie_50, BreSam8_52, Bud_49, Bugatti_51, Bugsy_51, BuzzBuzz_50, Bxz2_48, C3_47, CRB1_53, Candra_52, Caraxes_48, Cat_47, Catalina_50, Celestialunch_47, Centaur_50, Changeling_48,

Chargerpower_48, Charm_48, Chartreuse_50, Che12_51, ChipMunk_51, Chiqui_47, Clammy_51, CloudWang3_51, ClownCar_52, CogOmlette_48, Colbster_52, Colin_48, Conquerage_49, Cookiedough_51, Croquant_53, Crucio_49, Cullens_52, D29_48, D32_50, DBQu4n_51, DaHudson_52, DaVinci_50, Daishi_51, Dalmatian_50, Darrell_51, DarthPhader_46, DeerParkTS_47, Deloris_50, DelvinSonDorr_49, Dieselweasel_53, Dignity_51, Dorothea_51, Drake55_51, DreamTeam1_48, DropBear_49, DudeLittle_48, Duplo_51, E3_gp66, EZMoney23_47, EagleEye_51, Ebony_49, Echild_49, EdogawaKiddo_49, Eidsmoe_49, Elephantoon_48, EmyBug_48, EpicPhail_53, Equemioh13_50, EricB_51, Et2Brutus_48, EtoileNova_49, EvilGenius_51, ExplosioNervosa_49, Fameo_49, Farber_52, Fayely_49, Fernando_52, Fibonacci_49, FiringLine_49, First_0051, Flare16_49, Flaverint_50, ForesterFrank_48, Fred313_49, Garak_53, GaugeLDP_47, Gemma_51, Georgie2_50, Gilberta_50, GingkoMaracino_52, Giroux_51, Gladiator_49, Goose1D_43, Goose1X_49, Gratitude_50, GreedyLawyer_51, Grif_52, Groupthink_53, Grub_52, Grum1_52, Gruunaga_51, GtownJaz_52, Gwennie_52, Hammer_52, Hanray_49, HarryHoudini_50, HashRod_53, HaveUMetTed_53, Heathen_49, Heffalump_48, HelDan_49, Heliosoles_51, Helmet_53, Herbertwm_49, Hercules11_52, Hexamo_51, HippoHollow_49, Holex_49, Hookmount_48, HortumSL17_49, Hutc2_49, Idleandcovert_50, Imbriano_52, Indra_54, Insomnia_50, IronMan_49, Isca_48, Isiphiwo_49, Iwokeuplikedis_52, JHC117_52, Jaan_49, Jabith_50, Jeffabunny_51, JenCasNa_53, JeppNRM_53, Jerm_51, JewelBug_52, Jiawan_49, Jobu08_51, Jordennis_51, Joselito_50, JoshKayV_51, Journey13_43, Jsquared_47, KADY_52, Kachowdy_49, Kalb97_53, Kalnoky_53, Kalpine_47, Kazan_52, Kerberos_51, Keziacharles14_49, Kimba_49, Kimona_48, KingCyrus_51, Kipper29_51, Klodlith_49, Koduck_50, Koko_52, Kumao_7, L5_48, LBerry_53, LadyBird_54, Landor_49, Larenn_48, LarryKay_52, Leogania_49, Leviathan_51, LilTurb_50, Lilbunny_50, Lilith_53, Lilleskat_49, LionsBait_49, LoneWolf_50, Loser_51, Louie6_51, Lowa_52, Lucivia_50, Lucyedi_50, LugYA_55, MA5_49, MK4_49, MaCh_50, Mabel_49, MadMarie_52, Mainiac_52, Malec_49, Malinsilva_54, Maminiaina_48, Manu_52, MarQuardt_52, Marchesa_49, Marie_52, Marius_53, McFly_51, MegTheThird_48, Methuselah_48, Microwolf_52, MiculUcigas_49, Miko_46, Minispark_48, Misomonster_53, MissWhite_48, MoneyMay_52, Montavir_51, MuchMore_55, Mulciber_49, Munch_50, Myxus_49, NaSiaTalie_49, Naji_51, Neeharika16_50, Newrala_51, NicoleTera_48, Noella_48, Norbert_47, NothingSpecial_47, Odin_48, OlanP_51, Ollie_52, Onglai_48, Orange_49, P28Green_53, PGHhamlin_54, PackMan_48, PainterBoy_50, Panamaxus_46, Pawn_52, Pembroke_52, Penny1_53, Petersenfast_49, Ph8s_51, Phaded_50, Phaeder_49, Phantastic_50, Pharaoh_44, PhishRPhriends_50, Phlei_38, Phoebe_53, Phonnegut_49, Phoxy_52, Phranny_53, Pioneer_49, Piro94_49, Pistachio_51, Pmask_51, Pocahontas_48, Polyphemus_53, Pomar16_51, Popcicle_48, PotatoSplit_54, Power_48, Priamo_53, Priya_49, Prudy_49, Pukovnik_48, Puppy_51, PurpleHaze_52, Qobbit_49, QueenB2_48, QueenBeesly_49, Rachaly_48, Rahalelujah_49, Reba_52, RedRock_51, Refuge_48, ResDef_48, Retro23_50, Rifter_52, Rockstar_49, Roimos_49, Roksolana_52, Rummer_51, RyeScarlet_49, Sabia_52, Sabinator_51, Sachima_49, Salz_48, Saskia_50, SaturnRing_50, Scherzo_49, Scout_49, SemperFi_50, Serenity_49, Sham4_49, SheaKeira_48, Shep_49, Sknot_49, Smeagan_52, SmellyB_51, SnapTap_49, Snape_49, Snickers_52, SoYo_52, SoilDragon_52, Soshari_54, Spike509_52, Spouty_49, Stagni_52, StarStuff_51, Steamy_45, StepMih_52, SuperAwesome_51, SuperCallie99_50, Superchunk_48, SweetiePie_49, SwirlSquare_52, TNguyen7_50, TarsusIV_48, Taurus_53, Temprado_52, Terrific_50, Tiffany_52, Timothy_49, TinyPebbles_51, TinyTimmy_49, TipsytheTRex_45, Toaka_49, Tomathan_51, ToneTone_48, Travvers_51, Tristan_48, Trixie_47,

Trooper_50, Tubs_49, Turbido_50, Ugenie5_46, Updawg_50, VA6_50, VC3_52, Vanisoa_49, Vix_52, VohminGhazi_51, Watson_52, WeiHuaDA_49, Whabigail7_50, WideWale_50, Wiks_50, Wooldri_54, WorldCup_48, WunderPhul_51, XianYue_48, Yecey3_50, Yokurt_51, Zaka_51, Zarafa_49, Zetzy_51, Zimmer_46,

Genes that have the "Most Annotated" start but do not call it:
• Calvinny_52, Caviar_48, Lambert1_48, Margo_48, QuinnKiro_47, Texage_47, Todacoro_48, Veracruz_47, Wolpertinger_48,

Genes that do not have the "Most Annotated" start:
• AbbysRanger_47, Abdiel_48, Achebe_46, AgentM_40, Airmid_42, Alatin_38, Albee_48, Alberto7_49, Aleemily_71, Alone3_164, Alpacados_37, Anaysia_52, AngryOrchard_36, Annyong_48, Anon_47, Anthony_45, Apiary_18, AppleCloud_36, Aragog_40, Archetta_41, Arturo_47, Avle17_48, BRock_154, Baby16_48, Backyardigan_46, Badger_46, BangNhom_49, Bartimeaus_48, Battleship_53, Beleetus_161, Belenaria_38, BellusTerra_49, Benedict_44, Blackmoor_48, Bluefalcon_40, BobbyDazzler_38, Bombshell_48, Bonamassa_42, Bonanza_38, Boohoo_52, Bradman_48, Bradshaw_38, Braxoaddie_18, Broseidon_48, Bruiser_47, BrutonGaster_76, Bryce_38, BubbleTrouble_47, Buckaroo_47, Bumblebee11_46, Burger_46, C3PO_9, Caelakin_48, Cafasso_72, Camperdownii_46, Cardigan_111, CentreCat_48, Cerulean_49, Chadwick_45, ChampagnePapi_50, Chaph_48, CherryTomatoes_64, ChewyVIII_31, Chupacabra_46, Cici_47, Cindaradix_45, Cintron_47, Citius_48, Clarenza_47, Cocoaberry_48, CoffeeBean_18, Commander_48, Connomayer_48, Conspiracy_41, Coog_41, CosmicSans_38, Cruella_9, Cuco_41, Darwin_9, Datway_47, Deano_47, DekHockey33_52, Dhanush_48, Dinger_38, DirtyDunning_47, Discoknowium_40, DontArgue_46, Drake94_45, Druantia_48, Dublin_40, DustyMartin_51, Eagle_48, Eaglepride_48, Eapen_48, Edison31_46, EhyElimayoE_6, ElTiger69_43, Elle_46, Epsocamisio_50, Erik_38, Eris_47, Eros_48, Espica_38, Eurydice_49, FatCactus_41, Florean_48, Florence1_40, Florence4_41, Flux_48, FlyCatcher_53, ForGetIt_41, Frankenweenie_9, Fudan_160, Funston_47, GMA2_44, GMA3_42, Gadost_48, Gagieri_17, Gaia_90, Gallia_16, Garnacho_156, George_41, Ghoulboy_43, GiJojo_153, Gmala1_42, Gollum_38, Goose_47, GordDuk1_42, GordTnk2_42, HamSlice_47, Happiness_47, Harlequin_38, Hiro_38, Holli_47, Houdini22_48, HuhtaEnerson15_42, Huxley_47, ICleared_48, Ibantik_22, Iceman_48, Iracema64_49, JSwag_51, Jabiru_42, Jaykayelowell_46, JeanGrey_19, Jester_38, JetBlade_48, JonJames_113, JoongJeon_47, Jovo_41, Junimo_47, JustBecause_6, KFPoly_47, Kampy_48, Katalie136_47, KatherineG_53, KekoraPapaka_48, Kela_6, Kimchi1738_9, Kingmustik0402_48, KittenMittens_44, Koan_46, Koreni_47, Kradal_6, Kratark_48, Kremtemulon_48, Krishelle_38, Kristoff_47, Kudefre_109, Kyee_48, LHTSCC_50, LappelDuVide_48, LastResort_51, Lemur_48, LeoAvram_48, Lev2_41, Lilbooboo_41, Lillie_38, LittleB_48, LittleCherry_42, LittleGuy_48, LochMonster_49, LogiBear_51, Looper_52, Lorenzo_48, LuckySocke_162, Lunsford_49, MacGully_21, MajorMajor_48, MarysWell_40, Maselop_18, Maverick_48, Maxo_49, Mayonnaise_47, Mazhar510_48, Mbo2_58, Medusa_48, MeeZee_48, Melvin_50, Micasa_43, Midas2_41, Milcery_42, Millski_47, MinecraftSteve_53, ModicumRichard_72, Morgana_76, Morpher26_47, Morrow_49, Mundrea_47, Naca_43, Naiad_38, Nancinator_38, Natosaleda_38, Nebkiss_89, Nebs_49, Nebulosus_51, Nedarya_47, Nemo27_48, Nirvana_8, Noelle_48, NorthStar_47, Northrop_48, NotAPhaseMom_48, Nyxis_48, OKCentral2016_46, OKaNui_48, ObLaDi_72, Obama12_49, Octobien14_107, Ohfah_49, OneUp_83, Oofda_51, Palestino_47, Park1214_166, Partridge_38, PeaceMeal1_45, Peaches_48, Perplexer_47, PeterPeter_48, PeteyPab_9, PetiteSangsue_47,

PetterN_45, Phacado_48, PhailMary_37, Phelipe_49, Phighter1804_48, Phlorence_40, Phontbonne_48, Phrankenstein_38, PickleBack_41, Pipcraft_46, Polymorphads_49, Polyyuki_18, Poompha_46, PotatoChip_9, Prinashe11_41, Pumbaa_48, Pupper_63, Quantum_6, Quokka_47, RER2_31, RGL3_33, Rasputin_38, Ravana_53, ReMo_51, Rebeuca_47, RedWattleHog_184, Relief_47, Remus_52, RexFury_38, Rhodalysa_38, RhynO_48, RockieBear_48, Rocksand_48, Romney_48, Roosevelt_47, Rosa24_47, Rosalind_51, Rowa_46, Rowdy_51, Ruin_48, RunningOnE_22, SCentae_62, Sabertooth_48, Samora_42, Sarkar_6, Satis_6, Scamp_48, Scorpia_45, Sebastisaurus_42, SenorClean_48, Sephiroth_106, Severus_45, Shaka_48, Shapes_51, Shawty_40, ShayRa_53, Sheen_49, SheldonCooper_50, Shuman_38, Shygu2_47, Skadoosh_49, Skipitt_47, Soups_52, Sparxx_49, Spino_47, StCroix_38, Stasia_47, SteMason_47, Stickynote_9, Stormageddon_185, Strosahl_52, Sultana_48, Swann_38, Swirley_44, Switzerland_52, SydNat_43, Syleon_110, TG1_37, TWAMP_38, Tailonex_36, Takoda_38, Talos_164, Taquarus_48, Tarynearal_40, Thanksgivukkah_47, Theia_39, Tiger_40, TinaFeyge_48, Tinybot_47, TiroTheta9_48, Topanga_45, Toro_51, Trike_45, TroyPia_49, Tucker_51, Twigg_42, Twister_45, TygerBlood_48, UhSalsa_38, Ulysses_47, UnionJack_42, Vash_40, Waits_52, WalterMcMickey_45, Wander_48, Warrior24_53, Wilbur_48, Wile_47, Wizard007_48, Xena_46, YoSam321_48, Yogi_38, Yoncess_38, Yvonnetastic_110, Zion_9, Zolita_42, Zulu_51,

**Summary by start number:**

Start 18:
• Found in 3 of 753 ( 0.4% ) of genes in pham
• Manual Annotations of this start: 1 of 696
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Braxoaddie_18 (CR6),

Start 27:
• Found in 35 of 753 ( 4.6% ) of genes in pham
• Manual Annotations of this start: 8 of 696
• Called 22.9% of time when present
• Phage (with cluster) where this start called: Belenaria_38 (CA), CosmicSans_38 (CA), Espica_38 (CA), Lillie_38 (CA), PhailMary_37 (CA), Rhodalysa_38 (CA), Shuman_38 (CA), TWAMP_38 (CA),

Start 32:
• Found in 19 of 753 ( 2.5% ) of genes in pham
• Manual Annotations of this start: 1 of 696
• Called 5.3% of time when present
• Phage (with cluster) where this start called: Calvinny_52 (A3),

Start 33:
• Found in 17 of 753 ( 2.3% ) of genes in pham
• Manual Annotations of this start: 7 of 696
• Called 41.2% of time when present
• Phage (with cluster) where this start called: Caviar_48 (A3), Lambert1_48 (A3), Margo_48 (A3), QuinnKiro_47 (A3), Texage_47 (A3), Todacoro_48 (A3), Veracruz_47 (A3),

Start 36:

• Found in 1 of 753 ( 0.1% ) of genes in pham
• Manual Annotations of this start: 1 of 696
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Frankenweenie_9 (BM),

Start 37:
• Found in 6 of 753 ( 0.8% ) of genes in pham
• Manual Annotations of this start: 5 of 696
• Called 83.3% of time when present
• Phage (with cluster) where this start called: Apiary_18 (CR6), CoffeeBean_18 (CR6), Gagieri_17 (CR6), Maselop_18 (CR6), Polyyuki_18 (CR6),

Start 40:
• Found in 1 of 753 ( 0.1% ) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gallia_16 (singleton),

Start 41:
• Found in 2 of 753 ( 0.3% ) of genes in pham
• Manual Annotations of this start: 1 of 696
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Rowa_46 (BL),

Start 42:
• Found in 2 of 753 ( 0.3% ) of genes in pham
• Manual Annotations of this start: 1 of 696
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MacGully_21 (CR7), Mbo2_58 (singleton),

Start 44:
• Found in 21 of 753 ( 2.8% ) of genes in pham
• Manual Annotations of this start: 13 of 696
• Called 81.0% of time when present
• Phage (with cluster) where this start called: Chupacabra_46 (A10), DontArgue_46 (A10), Drake94_45 (A10), DustyMartin_51 (A10), Eaglepride_48 (A10), Edison31_46 (A10), KittenMittens_44 (A10), Kristoff_47 (A10), PeaceMeal1_45 (A10), Poompha_46 (A10), Rebeuca_47 (A10), RhynO_48 (A10), Rowdy_51 (A10), Shapes_51 (A10), Topanga_45 (A10), Trike_45 (A10), WalterMcMickey_45 (A10),

Start 45:
• Found in 395 of 753 ( 52.5% ) of genes in pham
• Manual Annotations of this start: 359 of 696
• Called 97.7% of time when present
• Phage (with cluster) where this start called: 20ES_52 (A2), 40AC_50 (A17), ACFishhook_51 (A3), AN3_52 (A2), AN9_52 (A2), ANI8_52 (A2), AbbyPaige_51 (A2), Acolyte_45 (A2), Adzzy_51 (A2), Agape74_51 (A2), Aglet_53 (A3), AgronaGT15_51 (A3), Aliter_49 (A9), Alma_49 (A9), Aneem_50 (A11), AnnaL29_51 (A2), Anselm_50 (A2), Anubis_55 (A3), ArcherNM_44 (A2), Arissanae_48 (A9), Artemis2UCLA_51 (A6), AugsMagnumOpus_55 (A3), Ayanochan_48 (A9), BabyBack_48 (A2), BabyJohn_47 (A3), BabyRay_49 (A3), Bachome_51 (A11), Bactobuster_48 (A2), Baehexic_48 (A2), Beauxregard13_52 (A3), Beemo_49 (A9), Bellris_49 (A9),

BengiVuitton_51 (A2), BennyP_52 (A6), Benvolio_46 (A2), BiancaTri92_49 (A2), Bigflo_52 (A3), BlessJoy_52 (A6), Blinn1_54 (A6), Blue7_53 (A6), BlueBird_51 (A3), BogosyJay_48 (A9), Bowtie_50 (A11), BreSam8_52 (A3), Bud_49 (A11), Bugatti_51 (A3), Bugsy_51 (A2), BuzzBuzz_50 (A3), Bxz2_48 (A3), C3_47 (A2), CRB1_53 (A2), Candra_52 (A6), Caraxes_48 (A2), Cat_47 (A3), Catalina_50 (A9), Celestialunch_47 (A9), Centaur_50 (A2), Changeling_48 (A2), Chargerpower_48 (A22), Charm_48 (A9), Chartreuse_50 (A6), Che12_51 (A2), ChipMunk_51 (A2), Chiqui_47 (A3), Clammy_51 (A3), CloudWang3_51 (A6), ClownCar_52 (A3), CogOmlette_48 (A9), Colbster_52 (A3), Colin_48 (A2), Conquerage_49 (A9), Cookiedough_51 (A6), Croquant_53 (A3), Crucio_49 (A2), Cullens_52 (A3), D29_48 (A2), D32_50 (A2), DBQu4n_51 (A2), DaHudson_52 (A3), DaVinci_50 (A6), Daishi_51 (A3), Dalmatian_50 (A2), Darrell_51 (A9), DarthPhader_46 (A12), DeerParkTS_47 (A2), Deloris_50 (A2), DelvinSonDorr_49 (A6), Dieselweasel_53 (A3), Dignity_51 (A2), Dorothea_51 (A6), Drake55_51 (A2), DreamTeam1_48 (A9), DropBear_49 (A3), DudeLittle_48 (A2), Duplo_51 (A2), E3_gp66 (singleton), EZMoney23_47 (A2), EagleEye_51 (A16), Ebony_49 (A11), Echild_49 (A2), EdogawaKiddo_49 (A9), Eidsmoe_49 (A9), Elephantoon_48 (A9), EmyBug_48 (A9), EpicPhail_53 (A3), Equemioh13_50 (A2), EricB_51 (A6), Et2Brutus_48 (A11), EtoileNova_49 (A3), EvilGenius_51 (A2), ExplosioNervosa_49 (A9), Fameo_49 (A2), Farber_52 (A3), Fayely_49 (A9), Fernando_52 (A3), Fibonacci_49 (A11), FiringLine_49 (A2), First_0051 (A2), Flare16_49 (A2), Flaverint_50 (A11), ForesterFrank_48 (A2), Fred313_49 (A3), Garak_53 (A6), GaugeLDP_47 (A2), Gemma_51 (A3), Georgie2_50 (A2), Gilberta_50 (A11), GingkoMaracino_52 (A3), Giroux_51 (A3), Gladiator_49 (A6), Goose1D_43 (A3), Goose1X_49 (A3), Gratitude_50 (A2), GreedyLawyer_51 (A6), Grif_52 (A3), Groupthink_53 (A3), Grub_52 (A3), Grum1_52 (A3), Gruunaga_51 (A6), GtownJaz_52 (A3), Gwennie_52 (A3), Hammer_52 (A6), Hanray_49 (A9), HarryHoudini_50 (A2), HashRod_53 (A3), HaveUMetTed_53 (A3), Heathen_49 (A3), Heffalump_48 (A2), HelDan_49 (A3), Heliosoles_51 (A3), Helmet_53 (A6), Herbertwm_49 (A2), Hercules11_52 (A3), Hexamo_51 (A6), HippoHollow_49 (A2), Holex_49 (A9), Hookmount_48 (A3), HortumSL17_49 (A9), Hutc2_49 (A11), Idleandcovert_50 (A3), Imbriano_52 (A6), Indra_54 (A6), Insomnia_50 (A11), IronMan_49 (A2), Isca_48 (A3), Isiphiwo_49 (A6), Iwokeuplikedis_52 (A2), JHC117_52 (A3), Jaan_49 (A2), Jabith_50 (A11), Jeffabunny_51 (A6), JenCasNa_53 (A3), JeppNRM_53 (A3), Jerm_51 (A2), JewelBug_52 (A6), Jiawan_49 (A9), Jobu08_51 (A3), Jordennis_51 (A6), Joselito_50 (A11), JoshKayV_51 (A2), Journey13_43 (A2), Jsquared_47 (A2), KADY_52 (A3), Kachowdy_49 (A3), Kalb97_53 (A3), Kalnoky_53 (A3), Kalpine_47 (A2), Kazan_52 (A6), Kerberos_51 (A2), Keziacharles14_49 (A9), Kimba_49 (A11), Kimona_48 (A19), KingCyrus_51 (A2), Kipper29_51 (A6), Klodlith_49 (A9), Koduck_50 (A2), Koko_52 (A6), Kumao_7 (singleton), L5_48 (A2), LBerry_53 (A3), LadyBird_54 (A2), Landor_49 (A2), Larenn_48 (A2), LarryKay_52 (A3), Leogania_49 (A2), Leviathan_51 (A2), LilTurb_50 (A2), Lilbunny_50 (A6), Lilith_53 (A3), Lilleskat_49 (A9), LionsBait_49 (A2), LoneWolf_50 (A9), Loser_51 (A2), Louie6_51 (A3), Lowa_52 (A3), Lucivia_50 (A11), Lucyedi_50 (A16), LugYA_55 (A3), MA5_49 (A3), MK4_49 (A3), MaCh_50 (A11), Mabel_49 (A11), MadMarie_52 (A3), Mainiac_52 (A3), Malec_49 (A2), Malinsilva_54 (A3), Maminiaina_48 (A9), Manu_52 (A3), MarQuardt_52 (A3), Marchesa_49 (A3), Marie_52 (A3), Marius_53 (A3), McFly_51 (A6), MegTheThird_48 (A9), Methuselah_48 (A3), Microwolf_52 (A3), MiculUcigas_49 (A2), Miko_46 (A2), Minispark_48 (A9), Misomonster_53 (A3), MissWhite_48 (A2), MoneyMay_52 (A3), Montavir_51 (A3), MuchMore_55 (A3), Mulciber_49 (A11), Munch_50 (A11), Myxus_49 (A9), NaSiaTalie_49 (A2), Naji_51 (A2), Neeharika16_50 (A6), Newrala_51 (A6), NicoleTera_48 (A2), Noella_48 (A3), Norbert_47 (A3), NothingSpecial_47 (A2), Odin_48 (A2), OlanP_51 (A3), Ollie_52 (A3), Onglai_48 (A9), Orange_49 (A11),

P28Green_53 (A3), PGHhamlin_54 (A3), PackMan_48 (A9), PainterBoy_50 (A16), Panamaxus_46 (A3), Pawn_52 (A3), Pembroke_52 (A3), Penny1_53 (A3), Petersenfast_49 (A11), Ph8s_51 (A2), Phaded_50 (A2), Phaeder_49 (A9), Phantastic_50 (A3), Pharaoh_44 (A12), PhishRPhriends_50 (A3), Phlei_38 (A13), Phoebe_53 (A3), Phonnegut_49 (A9), Phoxy_52 (A3), Phranny_53 (A3), Pioneer_49 (A9), Piro94_49 (A2), Pistachio_51 (A3), Pmask_51 (A6), Pocahontas_48 (A3), Polyphemus_53 (A6), Pomar16_51 (A2), Popcicle_48 (A3), PotatoSplit_54 (A3), Power_48 (A2), Priamo_53 (A6), Priya_49 (A9), Prudy_49 (A2), Pukovnik_48 (A2), Puppy_51 (A3), PurpleHaze_52 (A3), Qobbit_49 (A9), QueenB2_48 (A2), QueenBeesly_49 (A2), Rachaly_48 (A2), Rahalelujah_49 (A9), Reba_52 (A3), RedRock_51 (A2), Refuge_48 (A12), ResDef_48 (A3), Retro23_50 (A2), Rifter_52 (A6), Rockstar_49 (A3), Roimos_49 (A3), Roksolana_52 (A6), Rummer_51 (A3), RyeScarlet_49 (A9), Sabia_52 (A3), Sabinator_51 (A3), Sachima_49 (A9), Salz_48 (A11), Saskia_50 (A11), SaturnRing_50 (A3), Scherzo_49 (A9), Scout_49 (A3), SemperFi_50 (A2), Serenity_49 (A2), Sham4_49 (A11), SheaKeira_48 (A9), Shep_49 (A3), Sknot_49 (A2), Smeagan_52 (A2), SmellyB_51 (A6), SnapTap_49 (A2), Snape_49 (A11), Snickers_52 (A3), SoYo_52 (A3), SoilDragon_52 (A3), Soshari_54 (A3), Spike509_52 (A3), Spouty_49 (A9), Stagni_52 (A3), StarStuff_51 (A2), Steamy_45 (A12), StepMih_52 (A3), SuperAwesome_51 (A6), SuperCallie99_50 (A6), Superchunk_48 (A2), SweetiePie_49 (A2), SwirlSquare_52 (A2), TNguyen7_50 (A3), TarsusIV_48 (A2), Taurus_53 (A3), Temprado_52 (A6), Terrific_50 (A2), Tiffany_52 (A3), Timothy_49 (A11), TinyPebbles_51 (A3), TinyTimmy_49 (A11), TipsytheTRex_45 (A2), Toaka_49 (A9), Tomathan_51 (A2), ToneTone_48 (A6), Travvers_51 (A2), Tristan_48 (A2), Trixie_47 (A2), Trooper_50 (A2), Tubs_49 (A9), Turbido_50 (A2), Ugenie5_46 (A9), Updawg_50 (A2), VA6_50 (A2), VC3_52 (A2), Vanisoa_49 (A9), Vix_52 (A3), VohminGhazi_51 (A6), Watson_52 (A3), WeiHuaDA_49 (A2), Whabigail7_50 (A2), WideWale_50 (A2), Wiks_50 (A6), Wooldri_54 (A3), WorldCup_48 (A9), WunderPhul_51 (A6), XianYue_48 (A2), Yecey3_50 (A9), Yokurt_51 (A6), Zaka_51 (A6), Zarafa_49 (A3), Zetzy_51 (A3), Zimmer_46 (A12),

Start 46:
• Found in 5 of 753 ( 0.7% ) of genes in pham
• Manual Annotations of this start: 1 of 696
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Bradman_48 (A2), ChewyVIII_31 (singleton), MajorMajor_48 (A2), Quokka_47 (A2),

Start 47:
• Found in 2 of 753 ( 0.3% ) of genes in pham
• Manual Annotations of this start: 2 of 696
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Anthony_45 (A20), FatCactus_41 (A20),

Start 48:
• Found in 46 of 753 ( 6.1% ) of genes in pham
• Manual Annotations of this start: 36 of 696
• Called 82.6% of time when present
• Phage (with cluster) where this start called: Alatin_38 (CA), Alpacados_37 (CA), AngryOrchard_36 (CA), AppleCloud_36 (CA), BobbyDazzler_38 (CA), Bonanza_38 (CA), Bradshaw_38 (CA), Bryce_38 (CA), C3PO_9 (EN), Cruella_9 (EN), Darwin_9 (EN), Dinger_38 (CA), Erik_38 (CA), Gollum_38 (CA), Harlequin_38 (CA), Hiro_38 (CA), Jester_38 (CA), Kimchi1738_9 (EN), Krishelle_38 (CA), Naiad_38 (CA),

Nancinator_38 (CA), Natosaleda_38 (CA), Partridge_38 (CA), PeteyPab_9 (EN), Phrankenstein_38 (CA), PotatoChip_9 (EN), RER2_31 (CA), RGL3_33 (CA), Rasputin_38 (CA), RexFury_38 (CA), StCroix_38 (CA), Stickynote_9 (EN), Swann_38 (CA), Takoda_38 (CA), UhSalsa_38 (CA), Yogi_38 (CA), Yoncess_38 (CA), Zion_9 (EN),

Start 49:
• Found in 24 of 753 ( 3.2% ) of genes in pham
• Manual Annotations of this start: 24 of 696
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Anaysia_52 (A15), Battleship_53 (A15), Boohoo_52 (A15), DekHockey33_52 (A15), Elle_46 (A15), Epsocamisio_50 (A15), JSwag_51 (A15), KatherineG_53 (A15), LastResort_51 (A15), Looper_52 (A15), MinecraftSteve_53 (A15), Nebulosus_51 (A15), Nedarya_47 (A15), Oofda_51 (A15), Ravana_53 (A15), ReMo_51 (A15), Remus_52 (A15), Rosalind_51 (A15), ShayRa_53 (A15), Soups_52 (A15), Strosahl_52 (A15), Switzerland_52 (A15), Waits_52 (A15), Warrior24_53 (A15),

Start 50:
• Found in 236 of 753 ( 31.3% ) of genes in pham
• Manual Annotations of this start: 204 of 696
• Called 91.5% of time when present
• Phage (with cluster) where this start called: AbbysRanger_47 (A4), Abdiel_48 (A4), Achebe_46 (A4), AgentM_40 (A5), Airmid_42 (A5), Albee_48 (A4), Alberto7_49 (A4), Alone3_164 (BS), Annyong_48 (A4), Aragog_40 (A5), Archetta_41 (A5), Arturo_47 (A4), Avle17_48 (A4), BRock_154 (BS), Baby16_48 (A4), Backyardigan_46 (A4), Badger_46 (A4), BangNhom_49 (A4), Bartimeaus_48 (A4), Beleetus_161 (BS), BellusTerra_49 (A4), Benedict_44 (A5), Blackmoor_48 (A4), Bluefalcon_40 (A5), Bombshell_48 (A4), Bonamassa_42 (A5), Broseidon_48 (A4), Bruiser_47 (A4), BubbleTrouble_47 (A4), Buckaroo_47 (A4), Bumblebee11_46 (A4), Burger_46 (A4), Caelakin_48 (A4), Camperdownii_46 (A4), CentreCat_48 (A4), Cerulean_49 (A4), Chadwick_45 (A5), ChampagnePapi_50 (A4), Chaph_48 (A4), Cici_47 (A4), Cindaradix_45 (A4), Cintron_47 (A4), Citius_48 (A4), Clarenza_47 (A4), Cocoaberry_48 (A4), Commander_48 (A4), Connomayer_48 (A4), Conspiracy_41 (A5), Coog_41 (A5), Cuco_41 (A5), Datway_47 (A4), Deano_47 (A4), Dhanush_48 (A4), DirtyDunning_47 (A4), Discoknowium_40 (A5), Druantia_48 (A4), Dublin_40 (A5), Eagle_48 (A4), Eapen_48 (A4), ElTiger69_43 (A5), Eris_47 (A4), Eros_48 (A4), Eurydice_49 (A4), Florean_48 (A4), Florence1_40 (A5), Florence4_41 (A5), Flux_48 (A4), FlyCatcher_53 (A7), ForGetIt_41 (A5), Fudan_160 (BS), Funston_47 (A4), Gadost_48 (A4), Gaia_90 (X), Garnacho_156 (BS), George_41 (A5), Ghoulboy_43 (A5), GiJojo_153 (BS), Goose_47 (A10), HamSlice_47 (A4), Happiness_47 (A4), Holli_47 (A4), Houdini22_48 (A4), HuhtaEnerson15_42 (A5), Huxley_47 (A4), ICleared_48 (A4), Ibantik_22 (JN), Iceman_48 (A4), Iracema64_49 (A4), Jabiru_42 (A5), Jaykayelowell_46 (A4), JetBlade_48 (A4), JoongJeon_47 (A4), Jovo_41 (A5), Junimo_47 (A4), KFPoly_47 (A4), Kampy_48 (A4), Katalie136_47 (A4), KekoraPapaka_48 (A4), Kingmustik0402_48 (A4), Koan_46 (A4), Koreni_47 (A4), Kratark_48 (A4), Kremtemulon_48 (A4), Kyee_48 (A4), LHTSCC_50 (A4), LappelDuVide_48 (A4), Lemur_48 (A4), LeoAvram_48 (A4), Lev2_41 (A5), Lilbooboo_41 (BB1), LittleB_48 (A4), LittleCherry_42 (A5), LittleGuy_48 (A4), LochMonster_49 (A4), Lorenzo_48 (A4), LuckySocke_162 (BS), Lunsford_49 (A4), MarysWell_40 (A5), Maverick_48 (A4), Maxo_49 (A4), Mayonnaise_47 (A4), Mazhar510_48 (A4), Medusa_48 (A4), MeeZee_48 (A4), Melvin_50 (A4), Micasa_43 (A5), Midas2_41 (A5), Milcery_42 (A5), Millski_47 (A4), Morpher26_47 (A4),

Morrow_49 (A4), Mundrea_47 (A4), Naca_43 (A5), Nebkiss_89 (X), Nebs_49 (A4), Nemo27_48 (A4), Noelle_48 (A4), NorthStar_47 (A4), Northrop_48 (A4), NotAPhaseMom_48 (A4), Nyxis_48 (A4), OKCentral2016_46 (A10), OKaNui_48 (A4), Obama12_49 (A4), Ohfah_49 (A4), Palestino_47 (A4), Park1214_166 (BS), Peaches_48 (A4), Perplexer_47 (A4), PeterPeter_48 (A4), PetiteSangsue_47 (A4), PetterN_45 (A5), Phacado_48 (A4), Phelipe_49 (A4), Phighter1804_48 (A4), Phlorence_40 (A5), Phontbonne_48 (A4), PickleBack_41 (A5), Pipcraft_46 (A4), Polymorphads_49 (A4), Prinashe11_41 (A5), Pumbaa_48 (A4), Relief_47 (A4), RockieBear_48 (A4), Rocksand_48 (A4), Romney_48 (A4), Roosevelt_47 (A4), Rosa24_47 (A4), Ruin_48 (A4), RunningOnE_22 (JN), Sabertooth_48 (A4), Samora_42 (BB1), Scamp_48 (A4), Scorpia_45 (A5), Sebastisaurus_42 (BB2), SenorClean_48 (A4), Severus_45 (A10), Shaka_48 (A4), Shawty_40 (BB1), Sheen_49 (A7), SheldonCooper_50 (A4), Shygu2_47 (A4), Skadoosh_49 (A4), Skipitt_47 (A4), Sparxx_49 (A4), Spino_47 (A4), Stasia_47 (A4), SteMason_47 (A4), Sultana_48 (A4), Swirley_44 (A5), SydNat_43 (A5), TG1_37 (BB1), Talos_164 (BS), Taquarus_48 (A4), Tarynearal_40 (A5), Thanksgivukkah_47 (A4), Theia_39 (A5), Tiger_40 (A5), TinaFeyge_48 (A4), Tinybot_47 (A4), TiroTheta9_48 (A4), Toro_51 (A7), TroyPia_49 (A4), Twigg_42 (A5), Twister_45 (A10), TygerBlood_48 (A4), Ulysses_47 (A4), UnionJack_42 (A5), Vash_40 (BB1), Wander_48 (A4), Wilbur_48 (A4), Wile_47 (A4), Wizard007_48 (A4), Xena_46 (A4), YoSam321_48 (A4), Zolita_42 (A5),

Start 53:
• Found in 3 of 753 ( 0.4% ) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gmala1_42 (DF1), GordDuk1_42 (DF1), GordTnk2_42 (DF1),

Start 55:
• Found in 6 of 753 ( 0.8% ) of genes in pham
• Manual Annotations of this start: 5 of 696
• Called 83.3% of time when present
• Phage (with cluster) where this start called: Cardigan_111 (DD), JonJames_113 (DD), RedWattleHog_184 (DX), Stormageddon_185 (DX), Yvonnetastic_110 (DD),

Start 56:
• Found in 9 of 753 ( 1.2% ) of genes in pham
• Manual Annotations of this start: 8 of 696
• Called 88.9% of time when present
• Phage (with cluster) where this start called: EhyElimayoE_6 (BM), JustBecause_6 (BM), Kela_6 (BM), Kradal_6 (BM), Nirvana_8 (BM), Quantum_6 (BM), Sarkar_6 (BM), Satis_6 (BM),

Start 57:
• Found in 12 of 753 ( 1.6% ) of genes in pham
• Manual Annotations of this start: 10 of 696
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BrutonGaster_76 (CQ2), CherryTomatoes_64 (DO), GMA3_42 (DF2), JeanGrey_19 (singleton), Kudefre_109 (DU1), Octobien14_107 (DU1), OneUp_83 (CQ2), Pupper_63 (DO), SCentae_62 (DO), Sephiroth_106 (DU1), Syleon_110 (DU1), Tailonex_36 (singleton),

Start 60:
• Found in 1 of 753 ( 0.1% ) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GMA2_44 (DS),

Start 62:
• Found in 2 of 753 ( 0.3% ) of genes in pham
• Manual Annotations of this start: 2 of 696
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Tucker_51 (A6), Zulu_51 (A6),

Start 65:
• Found in 1 of 753 ( 0.1% ) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: LogiBear_51 (A15),

Start 68:
• Found in 12 of 753 ( 1.6% ) of genes in pham
• Manual Annotations of this start: 6 of 696
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Aleemily_71 (DZ), Anon_47 (A15), Cafasso_72 (DZ), ModicumRichard_72 (DZ), Morgana_76 (DZ), ObLaDi_72 (DZ),

Start 77:
• Found in 67 of 753 ( 8.9% ) of genes in pham
• Manual Annotations of this start: 1 of 696
• Called 1.5% of time when present
• Phage (with cluster) where this start called: Wolpertinger_48 (A11),

**Summary by clusters:**

There are 38 clusters represented in this pham: DO, singleton, BL, BM, DD, JN, DZ, DX, BS, DS, A15, A17, A16, A11, A10, A13, A12, DF1, DF2, A3, A2, A5, A4, A7, A6, A9, DU1, BB2, BB1, EN, CA, CQ2, X, A20, A22, CR6, CR7, A19,

Info for manual annotations of cluster A10:
•Start number 44 was manually annotated 13 times for cluster A10.
•Start number 50 was manually annotated 4 times for cluster A10.

Info for manual annotations of cluster A11:
•Start number 45 was manually annotated 27 times for cluster A11.
•Start number 77 was manually annotated 1 time for cluster A11.

Info for manual annotations of cluster A12:
•Start number 45 was manually annotated 5 times for cluster A12.

Info for manual annotations of cluster A15:
•Start number 49 was manually annotated 24 times for cluster A15.
•Start number 68 was manually annotated 1 time for cluster A15.

Info for manual annotations of cluster A16:
•Start number 45 was manually annotated 3 times for cluster A16.

Info for manual annotations of cluster A19:
•Start number 45 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A2:
•Start number 45 was manually annotated 115 times for cluster A2.

Info for manual annotations of cluster A20:
•Start number 47 was manually annotated 2 times for cluster A20.

Info for manual annotations of cluster A22:
•Start number 45 was manually annotated 1 time for cluster A22.

Info for manual annotations of cluster A3:
•Start number 32 was manually annotated 1 time for cluster A3.
•Start number 33 was manually annotated 7 times for cluster A3.
•Start number 45 was manually annotated 114 times for cluster A3.

Info for manual annotations of cluster A4:
•Start number 50 was manually annotated 141 times for cluster A4.

Info for manual annotations of cluster A5:
•Start number 50 was manually annotated 40 times for cluster A5.

Info for manual annotations of cluster A6:
•Start number 45 was manually annotated 46 times for cluster A6.
•Start number 62 was manually annotated 2 times for cluster A6.

Info for manual annotations of cluster A7:
•Start number 50 was manually annotated 1 time for cluster A7.

Info for manual annotations of cluster A9:
•Start number 45 was manually annotated 46 times for cluster A9.

Info for manual annotations of cluster BB1:
•Start number 50 was manually annotated 5 times for cluster BB1.

Info for manual annotations of cluster BB2:
•Start number 50 was manually annotated 1 time for cluster BB2.

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

Info for manual annotations of cluster BM:
•Start number 36 was manually annotated 1 time for cluster BM.
•Start number 56 was manually annotated 8 times for cluster BM.

Info for manual annotations of cluster BS:
•Start number 50 was manually annotated 8 times for cluster BS.

Info for manual annotations of cluster CA:
•Start number 27 was manually annotated 8 times for cluster CA.
•Start number 48 was manually annotated 28 times for cluster CA.

Info for manual annotations of cluster CQ2:
•Start number 57 was manually annotated 2 times for cluster CQ2.

Info for manual annotations of cluster CR6:
•Start number 18 was manually annotated 1 time for cluster CR6.
•Start number 37 was manually annotated 5 times for cluster CR6.

Info for manual annotations of cluster CR7:
•Start number 42 was manually annotated 1 time for cluster CR7.

Info for manual annotations of cluster DD:
•Start number 55 was manually annotated 3 times for cluster DD.

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

Info for manual annotations of cluster DU1:
•Start number 57 was manually annotated 4 times for cluster DU1.

Info for manual annotations of cluster DX:
•Start number 55 was manually annotated 2 times for cluster DX.

Info for manual annotations of cluster DZ:
•Start number 68 was manually annotated 5 times for cluster DZ.

Info for manual annotations of cluster EN:
•Start number 48 was manually annotated 8 times for cluster EN.

Info for manual annotations of cluster JN:
•Start number 50 was manually annotated 2 times for cluster JN.

Info for manual annotations of cluster X:
•Start number 50 was manually annotated 2 times for cluster X.

***Gene Information:***

Gene: 20ES_52 Start: 33612, Stop: 32884, Start Num: 45
Candidate Starts for 20ES_52:
(Start: 45 @33612 has 359 MA's), (119, 33375), (130, 33285), (131, 33282), (219, 33066), (223, 33051), (225, 33045), (240, 32955),

Gene: 40AC_50 Start: 34380, Stop: 33652, Start Num: 45
Candidate Starts for 40AC_50:

(Start: 45 @34380 has 359 MA's), (74, 34335), (119, 34149), (125, 34101), (130, 34059), (131, 34056), (135, 34032), (198, 33915), (219, 33840), (223, 33825), (225, 33819), (240, 33729),

Gene: ACFishhook_51 Start: 33169, Stop: 32471, Start Num: 45
Candidate Starts for ACFishhook_51:
(Start: 32 @33229 has 1 MA's), (Start: 45 @33169 has 359 MA's), (118, 32977), (130, 32872), (131, 32869), (149, 32818), (213, 32701), (219, 32653), (223, 32638),

Gene: AN3_52 Start: 33983, Stop: 33255, Start Num: 45
Candidate Starts for AN3_52:
(Start: 45 @33983 has 359 MA's), (119, 33746), (130, 33656), (131, 33653), (145, 33602), (203, 33509), (213, 33485), (219, 33437), (223, 33422), (225, 33416), (240, 33326),

Gene: AN9_52 Start: 33241, Stop: 32555, Start Num: 45
Candidate Starts for AN9_52:
(Start: 45 @33241 has 359 MA's), (119, 33031), (131, 32938), (132, 32923), (203, 32815), (213, 32791), (216, 32755), (219, 32743), (223, 32728), (228, 32692), (240, 32632),

Gene: ANI8_52 Start: 33241, Stop: 32555, Start Num: 45
Candidate Starts for ANI8_52:
(Start: 45 @33241 has 359 MA's), (119, 33031), (131, 32938), (132, 32923), (203, 32815), (213, 32791), (216, 32755), (219, 32743), (223, 32728), (228, 32692), (240, 32632),

Gene: AbbyPaige_51 Start: 33549, Stop: 32824, Start Num: 45
Candidate Starts for AbbyPaige_51:
(Start: 45 @33549 has 359 MA's), (119, 33315), (130, 33225), (131, 33222), (175, 33120), (213, 33054), (219, 33006), (223, 32991), (225, 32985),

Gene: AbbysRanger_47 Start: 32771, Stop: 32052, Start Num: 50
Candidate Starts for AbbysRanger_47:
(Start: 50 @32771 has 204 MA's), (119, 32543), (125, 32495), (131, 32450), (145, 32399), (147, 32396), (148, 32393), (206, 32300), (213, 32282), (219, 32234), (223, 32219),

Gene: Abdiel_48 Start: 32782, Stop: 32063, Start Num: 50
Candidate Starts for Abdiel_48:
(Start: 50 @32782 has 204 MA's), (119, 32554), (125, 32506), (137, 32431), (145, 32410), (147, 32407), (206, 32311), (216, 32257), (219, 32245), (223, 32230), (225, 32224),

Gene: Achebe_46 Start: 32754, Stop: 32035, Start Num: 50
Candidate Starts for Achebe_46:
(Start: 50 @32754 has 204 MA's), (119, 32526), (125, 32478), (131, 32433), (145, 32382), (147, 32379), (148, 32376), (206, 32283), (213, 32265), (219, 32217), (223, 32202),

Gene: Acolyte_45 Start: 32492, Stop: 31791, Start Num: 45
Candidate Starts for Acolyte_45:
(Start: 45 @32492 has 359 MA's), (119, 32255), (120, 32252), (125, 32207), (130, 32165), (131, 32162), (213, 32021), (219, 31973), (223, 31958),

Gene: Adzzy_51 Start: 31979, Stop: 31275, Start Num: 45
Candidate Starts for Adzzy_51:
(Start: 45 @31979 has 359 MA's), (125, 31724), (130, 31682), (131, 31679), (137, 31649), (141, 31637), (154, 31616), (174, 31580), (178, 31571), (219, 31463), (223, 31448), (228, 31412), (240, 31352),

Gene: Agape74_51 Start: 33534, Stop: 32809, Start Num: 45
Candidate Starts for Agape74_51:
(Start: 45 @33534 has 359 MA's), (119, 33300), (130, 33210), (131, 33207), (175, 33105), (213, 33039), (219, 32991), (223, 32976), (225, 32970),

Gene: AgentM_40 Start: 31476, Stop: 30757, Start Num: 50
Candidate Starts for AgentM_40:
(Start: 50 @31476 has 204 MA's), (Start: 77 @31422 has 1 MA's), (90, 31398), (103, 31374), (120, 31242), (147, 31098), (208, 30999), (219, 30936), (223, 30921), (228, 30885), (239, 30828),

Gene: Aglet_53 Start: 33207, Stop: 32500, Start Num: 45
Candidate Starts for Aglet_53:
(Start: 45 @33207 has 359 MA's), (118, 33015), (130, 32910), (137, 32877), (219, 32682), (223, 32667),

Gene: AgronaGT15_51 Start: 33058, Stop: 32351, Start Num: 45
Candidate Starts for AgronaGT15_51:
(Start: 45 @33058 has 359 MA's), (118, 32866), (219, 32533), (223, 32518),

Gene: Airmid_42 Start: 31520, Stop: 30816, Start Num: 50
Candidate Starts for Airmid_42:
(Start: 50 @31520 has 204 MA's), (125, 31256), (145, 31160), (204, 31067), (213, 31043), (219, 30995), (223, 30980), (228, 30944), (240, 30884),

Gene: Alatin_38 Start: 29237, Stop: 28476, Start Num: 48
Candidate Starts for Alatin_38:
(Start: 27 @29309 has 8 MA's), (Start: 48 @29237 has 36 MA's), (119, 28985), (125, 28937), (132, 28877), (139, 28856), (150, 28829), (159, 28805), (191, 28745), (204, 28730), (223, 28643), (226, 28625), (237, 28559), (240, 28547),

Gene: Albee_48 Start: 32781, Stop: 32062, Start Num: 50
Candidate Starts for Albee_48:
(Start: 50 @32781 has 204 MA's), (119, 32553), (125, 32505), (137, 32430), (145, 32409), (147, 32406), (206, 32310), (216, 32256), (219, 32244), (223, 32229), (225, 32223),

Gene: Alberto7_49 Start: 33118, Stop: 32399, Start Num: 50
Candidate Starts for Alberto7_49:
(Start: 50 @33118 has 204 MA's), (119, 32890), (125, 32842), (137, 32767), (145, 32746), (147, 32743), (206, 32647), (216, 32593), (219, 32581), (223, 32566), (225, 32560),

Gene: Aleemily_71 Start: 46840, Stop: 47544, Start Num: 68
Candidate Starts for Aleemily_71:
(2, 46390), (15, 46597), (Start: 68 @46840 has 6 MA's), (103, 46924), (119, 47053), (125, 47101), (127, 47113), (130, 47143), (219, 47362), (223, 47377),

Gene: Aliter_49 Start: 32952, Stop: 32248, Start Num: 45
Candidate Starts for Aliter_49:
(Start: 45 @32952 has 359 MA's), (74, 32907), (75, 32904), (Start: 77 @32901 has 1 MA's), (118, 32760), (119, 32745), (125, 32697), (130, 32655), (219, 32436), (223, 32421),

Gene: Alma_49 Start: 33078, Stop: 32374, Start Num: 45
Candidate Starts for Alma_49:

(Start: 45 @33078 has 359 MA's), (74, 33033), (75, 33030), (Start: 77 @33027 has 1 MA's), (118, 32886), (119, 32871), (125, 32823), (130, 32781), (219, 32562), (223, 32547),

Gene: Alone3_164 Start: 87184, Stop: 87894, Start Num: 50
Candidate Starts for Alone3_164:
(Start: 50 @87184 has 204 MA's), (66, 87214), (74, 87235), (107, 87304), (110, 87346), (123, 87445), (124, 87454), (127, 87478), (134, 87532), (147, 87565), (217, 87706), (220, 87718), (224, 87733), (228, 87766), (243, 87835),

Gene: Alpacados_37 Start: 29142, Stop: 28381, Start Num: 48
Candidate Starts for Alpacados_37:
(Start: 27 @29214 has 8 MA's), (Start: 48 @29142 has 36 MA's), (125, 28842), (132, 28782), (139, 28761), (159, 28710), (191, 28650), (204, 28635), (223, 28548), (226, 28530), (237, 28464), (240, 28452),

Gene: Anaysia_52 Start: 31787, Stop: 31089, Start Num: 49
Candidate Starts for Anaysia_52:
(Start: 49 @31787 has 24 MA's), (81, 31730), (119, 31571), (130, 31481), (131, 31478), (165, 31400), (219, 31271), (223, 31256),

Gene: Aneem_50 Start: 32638, Stop: 31919, Start Num: 45
Candidate Starts for Aneem_50:
(Start: 45 @32638 has 359 MA's), (74, 32593), (119, 32401), (125, 32353), (130, 32311), (131, 32308), (155, 32242), (180, 32206), (210, 32155), (213, 32146), (219, 32098), (223, 32083), (240, 31987),

Gene: AngryOrchard_36 Start: 29101, Stop: 28340, Start Num: 48
Candidate Starts for AngryOrchard_36:
(Start: 27 @29173 has 8 MA's), (Start: 48 @29101 has 36 MA's), (119, 28849), (125, 28801), (132, 28741), (139, 28720), (150, 28693), (159, 28669), (191, 28609), (204, 28594), (223, 28507), (226, 28489), (240, 28411),

Gene: AnnaL29_51 Start: 34084, Stop: 33350, Start Num: 45
Candidate Starts for AnnaL29_51:
(Start: 45 @34084 has 359 MA's), (74, 34039), (119, 33847), (125, 33799), (130, 33757), (145, 33703), (175, 33652), (219, 33538), (223, 33523), (225, 33517), (228, 33487), (241, 33424),

Gene: Annyong_48 Start: 32826, Stop: 32107, Start Num: 50
Candidate Starts for Annyong_48:
(Start: 50 @32826 has 204 MA's), (119, 32598), (125, 32550), (137, 32475), (145, 32454), (147, 32451), (206, 32355), (216, 32301), (219, 32289), (223, 32274), (225, 32268),

Gene: Anon_47 Start: 30759, Stop: 30076, Start Num: 68
Candidate Starts for Anon_47:
(43, 30804), (Start: 68 @30759 has 6 MA's), (83, 30726), (90, 30711), (119, 30549), (130, 30459), (131, 30456), (182, 30357), (220, 30255), (223, 30243), (231, 30198),

Gene: Anselm_50 Start: 33465, Stop: 32740, Start Num: 45
Candidate Starts for Anselm_50:
(Start: 45 @33465 has 359 MA's), (119, 33231), (130, 33141), (131, 33138), (145, 33087), (175, 33036), (213, 32970), (219, 32922), (223, 32907), (225, 32901), (228, 32871),

Gene: Anthony_45 Start: 30926, Stop: 30207, Start Num: 47
Candidate Starts for Anthony_45:

(Start: 47 @30926 has 2 MA's), (93, 30842), (130, 30596), (131, 30593), (132, 30578), (141, 30551), (165, 30518), (206, 30461), (213, 30443), (217, 30404), (219, 30395), (223, 30380), (228, 30344), (240, 30284),

Gene: Anubis_55 Start: 33093, Stop: 32386, Start Num: 45
Candidate Starts for Anubis_55:
(Start: 45 @33093 has 359 MA's), (118, 32901), (130, 32796), (137, 32763), (219, 32568), (223, 32553),

Gene: Apiary_18 Start: 8904, Stop: 9791, Start Num: 37
Candidate Starts for Apiary_18:
(Start: 18 @8808 has 1 MA's), (22, 8838), (30, 8877), (Start: 37 @8904 has 5 MA's), (58, 8943), (72, 8970), (85, 9000), (119, 9174), (144, 9324), (155, 9354), (182, 9429), (223, 9588), (234, 9663), (237, 9672),

Gene: AppleCloud_36 Start: 29191, Stop: 28430, Start Num: 48
Candidate Starts for AppleCloud_36:
(Start: 48 @29191 has 36 MA's), (119, 28939), (125, 28891), (132, 28831), (139, 28810), (159, 28759), (191, 28699), (204, 28684), (223, 28597), (226, 28579),

Gene: Aragog_40 Start: 31500, Stop: 30787, Start Num: 50
Candidate Starts for Aragog_40:
(Start: 50 @31500 has 204 MA's), (74, 31452), (90, 31422), (118, 31284), (127, 31209), (130, 31179), (131, 31176), (155, 31110), (176, 31074), (209, 31023), (212, 31014), (219, 30966), (223, 30951), (228, 30915), (239, 30858),

Gene: ArcherNM_44 Start: 33078, Stop: 32347, Start Num: 45
Candidate Starts for ArcherNM_44:
(Start: 45 @33078 has 359 MA's), (119, 32844), (130, 32754), (131, 32751), (194, 32616), (219, 32535), (223, 32520), (225, 32514), (228, 32484), (241, 32421),

Gene: Archetta_41 Start: 32030, Stop: 31317, Start Num: 50
Candidate Starts for Archetta_41:
(Start: 50 @32030 has 204 MA's), (74, 31982), (90, 31952), (118, 31814), (127, 31739), (130, 31709), (131, 31706), (155, 31640), (176, 31604), (209, 31553), (212, 31544), (219, 31496), (223, 31481), (228, 31445), (239, 31388),

Gene: Arissanae_48 Start: 33608, Stop: 32907, Start Num: 45
Candidate Starts for Arissanae_48:
(Start: 45 @33608 has 359 MA's), (118, 33413), (119, 33398), (130, 33308), (135, 33281), (150, 33242), (162, 33221), (198, 33164), (213, 33137), (219, 33089), (223, 33074), (232, 33017),

Gene: Artemis2UCLA_51 Start: 31770, Stop: 31042, Start Num: 45
Candidate Starts for Artemis2UCLA_51:
(Start: 45 @31770 has 359 MA's), (74, 31725), (119, 31533), (125, 31485), (130, 31443), (131, 31440), (155, 31374), (180, 31338), (210, 31287), (213, 31278), (219, 31230), (223, 31215), (241, 31116),

Gene: Arturo_47 Start: 33061, Stop: 32342, Start Num: 50
Candidate Starts for Arturo_47:
(5, 33391), (7, 33379), (9, 33313), (10, 33310), (13, 33292), (14, 33271), (Start: 50 @33061 has 204 MA's), (119, 32833), (145, 32689), (147, 32686), (206, 32590), (219, 32524), (223, 32509),

Gene: AugsMagnumOpus_55 Start: 33198, Stop: 32491, Start Num: 45

Candidate Starts for AugsMagnumOpus_55:
(Start: 45 @33198 has 359 MA's), (118, 33006), (130, 32901), (137, 32868), (219, 32673), (223, 32658),

Gene: Avle17_48 Start: 32778, Stop: 32059, Start Num: 50
Candidate Starts for Avle17_48:
(Start: 50 @32778 has 204 MA's), (119, 32550), (125, 32502), (137, 32427), (145, 32406), (147, 32403), (206, 32307), (216, 32253), (219, 32241), (223, 32226), (225, 32220),

Gene: Ayanochan_48 Start: 33079, Stop: 32375, Start Num: 45
Candidate Starts for Ayanochan_48:
(Start: 45 @33079 has 359 MA's), (75, 33031), (Start: 77 @33028 has 1 MA's), (118, 32887), (119, 32872), (125, 32824), (130, 32782), (219, 32563), (223, 32548),

Gene: BRock_154 Start: 82002, Stop: 82691, Start Num: 50
Candidate Starts for BRock_154:
(Start: 50 @82002 has 204 MA's), (74, 82053), (75, 82056), (103, 82104), (107, 82122), (110, 82164), (115, 82200), (127, 82296), (134, 82350), (147, 82383), (157, 82395), (204, 82440), (217, 82503), (224, 82530), (226, 82545), (228, 82563), (241, 82626), (247, 82641),

Gene: Baby16_48 Start: 32792, Stop: 32073, Start Num: 50
Candidate Starts for Baby16_48:
(Start: 50 @32792 has 204 MA's), (119, 32564), (125, 32516), (137, 32441), (145, 32420), (147, 32417), (206, 32321), (216, 32267), (219, 32255), (223, 32240), (225, 32234),

Gene: BabyBack_48 Start: 33801, Stop: 33064, Start Num: 45
Candidate Starts for BabyBack_48:
(Start: 45 @33801 has 359 MA's), (119, 33561), (125, 33513), (130, 33471), (131, 33468), (203, 33324), (213, 33300), (217, 33261), (219, 33252), (223, 33237), (225, 33231),

Gene: BabyJohn_47 Start: 33055, Stop: 32321, Start Num: 45
Candidate Starts for BabyJohn_47:
(Start: 45 @33055 has 359 MA's), (70, 33019), (119, 32812), (130, 32722), (131, 32719), (174, 32620), (206, 32569), (219, 32503), (223, 32488), (240, 32392),

Gene: BabyRay_49 Start: 32984, Stop: 32262, Start Num: 45
Candidate Starts for BabyRay_49:
(Start: 45 @32984 has 359 MA's), (64, 32957), (72, 32942), (74, 32939), (162, 32576), (168, 32567), (174, 32561), (219, 32444), (223, 32429),

Gene: Bachome_51 Start: 32621, Stop: 31908, Start Num: 45
Candidate Starts for Bachome_51:
(Start: 45 @32621 has 359 MA's), (Start: 77 @32570 has 1 MA's), (125, 32348), (127, 32336), (131, 32303), (132, 32288), (150, 32240), (164, 32216), (213, 32135), (219, 32087), (223, 32072), (228, 32036), (240, 31976),

Gene: Backyardigan_46 Start: 32787, Stop: 32068, Start Num: 50
Candidate Starts for Backyardigan_46:
(Start: 50 @32787 has 204 MA's), (119, 32559), (125, 32511), (131, 32466), (145, 32415), (147, 32412), (148, 32409), (206, 32316), (213, 32298), (219, 32250), (223, 32235),

Gene: Bactobuster_48 Start: 34023, Stop: 33298, Start Num: 45
Candidate Starts for Bactobuster_48:

(Start: 45 @34023 has 359 MA's), (74, 33978), (119, 33789), (125, 33741), (130, 33699), (131, 33696), (213, 33528), (216, 33492), (219, 33480), (223, 33465),

Gene: Badger_46 Start: 32755, Stop: 32036, Start Num: 50
Candidate Starts for Badger_46:
(Start: 50 @32755 has 204 MA's), (119, 32527), (125, 32479), (131, 32434), (145, 32383), (147, 32380), (148, 32377), (206, 32284), (213, 32266), (219, 32218), (223, 32203),

Gene: Baehexic_48 Start: 33242, Stop: 32514, Start Num: 45
Candidate Starts for Baehexic_48:
(Start: 45 @33242 has 359 MA's), (119, 33005), (125, 32957), (130, 32915), (131, 32912), (213, 32744), (219, 32696), (223, 32681), (225, 32675),

Gene: BangNhom_49 Start: 33203, Stop: 32484, Start Num: 50
Candidate Starts for BangNhom_49:
(Start: 50 @33203 has 204 MA's), (74, 33158), (119, 32975), (125, 32927), (145, 32831), (147, 32828), (216, 32678), (219, 32666), (223, 32651), (225, 32645),

Gene: Bartimeaus_48 Start: 32783, Stop: 32064, Start Num: 50
Candidate Starts for Bartimeaus_48:
(Start: 50 @32783 has 204 MA's), (119, 32555), (125, 32507), (137, 32432), (145, 32411), (147, 32408), (206, 32312), (216, 32258), (219, 32246), (223, 32231), (225, 32225),

Gene: Battleship_53 Start: 31798, Stop: 31070, Start Num: 49
Candidate Starts for Battleship_53:
(Start: 49 @31798 has 24 MA's), (119, 31552), (130, 31462), (131, 31459), (165, 31381), (219, 31252), (223, 31237),

Gene: Beauxregard13_52 Start: 33210, Stop: 32503, Start Num: 45
Candidate Starts for Beauxregard13_52:
(Start: 45 @33210 has 359 MA's), (118, 33018), (130, 32913), (137, 32880), (219, 32685), (223, 32670),

Gene: Beemo_49 Start: 33074, Stop: 32370, Start Num: 45
Candidate Starts for Beemo_49:
(Start: 45 @33074 has 359 MA's), (74, 33029), (75, 33026), (Start: 77 @33023 has 1 MA's), (118, 32882), (119, 32867), (125, 32819), (130, 32777), (219, 32558), (223, 32543),

Gene: Beleetus_161 Start: 85630, Stop: 86340, Start Num: 50
Candidate Starts for Beleetus_161:
(Start: 50 @85630 has 204 MA's), (103, 85732), (110, 85792), (127, 85924), (134, 85978), (147, 86011), (217, 86152), (220, 86164), (224, 86179), (228, 86212),

Gene: Belenaria_38 Start: 29243, Stop: 28410, Start Num: 27
Candidate Starts for Belenaria_38:
(Start: 27 @29243 has 8 MA's), (Start: 48 @29171 has 36 MA's), (119, 28919), (125, 28871), (132, 28811), (139, 28790), (159, 28739), (191, 28679), (204, 28664), (223, 28577), (226, 28559), (237, 28493), (240, 28481),

Gene: Bellris_49 Start: 32548, Stop: 31847, Start Num: 45
Candidate Starts for Bellris_49:
(Start: 45 @32548 has 359 MA's), (119, 32338), (125, 32290), (130, 32248), (135, 32221), (147, 32191), (150, 32182), (162, 32161), (198, 32104), (213, 32077), (219, 32029), (223, 32014),

Gene: BellusTerra_49 Start: 32782, Stop: 32063, Start Num: 50
Candidate Starts for BellusTerra_49:
(Start: 50 @32782 has 204 MA's), (119, 32554), (125, 32506), (137, 32431), (145, 32410), (147, 32407), (206, 32311), (216, 32257), (219, 32245), (223, 32230), (225, 32224),

Gene: Benedict_44 Start: 31695, Stop: 30988, Start Num: 50
Candidate Starts for Benedict_44:
(Start: 50 @31695 has 204 MA's), (131, 31386), (147, 31332), (168, 31296), (170, 31293), (219, 31167), (223, 31152), (228, 31116), (240, 31056),

Gene: BengiVuitton_51 Start: 33565, Stop: 32837, Start Num: 45
Candidate Starts for BengiVuitton_51:
(Start: 45 @33565 has 359 MA's), (119, 33328), (130, 33238), (131, 33235), (170, 33139), (175, 33133), (189, 33109), (203, 33091), (219, 33019), (223, 33004), (225, 32998), (240, 32908),

Gene: BennyP_52 Start: 32227, Stop: 31493, Start Num: 45
Candidate Starts for BennyP_52:
(Start: 45 @32227 has 359 MA's), (74, 32182), (119, 31990), (131, 31897), (132, 31882), (150, 31834), (164, 31810), (213, 31729), (219, 31681), (223, 31666), (225, 31660), (241, 31567),

Gene: Benvolio_46 Start: 32496, Stop: 31771, Start Num: 45
Candidate Starts for Benvolio_46:
(Start: 45 @32496 has 359 MA's), (119, 32262), (130, 32172), (131, 32169), (145, 32118), (189, 32043), (219, 31953), (223, 31938), (225, 31932), (240, 31842),

Gene: BiancaTri92_49 Start: 33867, Stop: 33133, Start Num: 45
Candidate Starts for BiancaTri92_49:
(Start: 45 @33867 has 359 MA's), (119, 33630), (125, 33582), (130, 33540), (131, 33537), (213, 33369), (219, 33321), (223, 33306), (225, 33300), (228, 33270),

Gene: Bigflo_52 Start: 33206, Stop: 32499, Start Num: 45
Candidate Starts for Bigflo_52:
(Start: 45 @33206 has 359 MA's), (118, 33014), (130, 32909), (137, 32876), (219, 32681), (223, 32666),

Gene: Blackmoor_48 Start: 32783, Stop: 32064, Start Num: 50
Candidate Starts for Blackmoor_48:
(Start: 50 @32783 has 204 MA's), (119, 32555), (125, 32507), (137, 32432), (145, 32411), (147, 32408), (206, 32312), (216, 32258), (219, 32246), (223, 32231), (225, 32225),

Gene: BlessJoy_52 Start: 32231, Stop: 31503, Start Num: 45
Candidate Starts for BlessJoy_52:
(Start: 45 @32231 has 359 MA's), (74, 32186), (119, 31994), (125, 31946), (130, 31904), (131, 31901), (155, 31835), (180, 31799), (210, 31748), (213, 31739), (219, 31691), (223, 31676), (241, 31577),

Gene: Blinn1_54 Start: 32178, Stop: 31468, Start Num: 45
Candidate Starts for Blinn1_54:
(Start: 45 @32178 has 359 MA's), (74, 32133), (119, 31941), (159, 31794), (203, 31728), (219, 31656), (223, 31641), (225, 31635), (241, 31542),

Gene: Blue7_53 Start: 31875, Stop: 31138, Start Num: 45
Candidate Starts for Blue7_53:

(Start: 45 @31875 has 359 MA's), (74, 31830), (119, 31638), (125, 31590), (131, 31545), (150, 31479), (219, 31326), (223, 31311), (241, 31212),

Gene: BlueBird_51 Start: 33076, Stop: 32348, Start Num: 45
Candidate Starts for BlueBird_51:
(28, 33145), (Start: 45 @33076 has 359 MA's), (111, 32896), (118, 32854), (130, 32749), (131, 32746), (174, 32647), (203, 32602), (219, 32530), (223, 32515),

Gene: Bluefalcon_40 Start: 31994, Stop: 31275, Start Num: 50
Candidate Starts for Bluefalcon_40:
(Start: 50 @31994 has 204 MA's), (Start: 77 @31940 has 1 MA's), (90, 31916), (103, 31892), (118, 31778), (131, 31670), (219, 31454), (223, 31439), (228, 31403), (239, 31346),

Gene: BobbyDazzler_38 Start: 29216, Stop: 28455, Start Num: 48
Candidate Starts for BobbyDazzler_38:
(Start: 27 @29288 has 8 MA's), (Start: 48 @29216 has 36 MA's), (119, 28964), (125, 28916), (132, 28856), (139, 28835), (159, 28784), (191, 28724), (204, 28709), (223, 28622), (226, 28604), (237, 28538), (240, 28526),

Gene: BogosyJay_48 Start: 32795, Stop: 32091, Start Num: 45
Candidate Starts for BogosyJay_48:
(Start: 45 @32795 has 359 MA's), (75, 32747), (Start: 77 @32744 has 1 MA's), (118, 32603), (119, 32588), (125, 32540), (130, 32498), (219, 32279), (223, 32264), (224, 32261), (225, 32258),

Gene: Bombshell_48 Start: 32778, Stop: 32059, Start Num: 50
Candidate Starts for Bombshell_48:
(Start: 50 @32778 has 204 MA's), (119, 32550), (125, 32502), (137, 32427), (145, 32406), (147, 32403), (206, 32307), (216, 32253), (219, 32241), (223, 32226), (225, 32220),

Gene: Bonamassa_42 Start: 32019, Stop: 31306, Start Num: 50
Candidate Starts for Bonamassa_42:
(Start: 50 @32019 has 204 MA's), (74, 31971), (90, 31941), (127, 31728), (130, 31698), (131, 31695), (155, 31629), (176, 31593), (209, 31542), (212, 31533), (219, 31485), (223, 31470), (228, 31434), (240, 31374),

Gene: Bonanza_38 Start: 29144, Stop: 28383, Start Num: 48
Candidate Starts for Bonanza_38:
(Start: 27 @29216 has 8 MA's), (Start: 48 @29144 has 36 MA's), (125, 28844), (132, 28784), (139, 28763), (159, 28712), (191, 28652), (204, 28637), (223, 28550), (226, 28532), (237, 28466), (240, 28454),

Gene: Boohoo_52 Start: 31787, Stop: 31089, Start Num: 49
Candidate Starts for Boohoo_52:
(Start: 49 @31787 has 24 MA's), (81, 31730), (119, 31571), (130, 31481), (131, 31478), (165, 31400), (219, 31271), (223, 31256),

Gene: Bowtie_50 Start: 32645, Stop: 31926, Start Num: 45
Candidate Starts for Bowtie_50:
(Start: 45 @32645 has 359 MA's), (74, 32600), (119, 32408), (125, 32360), (130, 32318), (131, 32315), (155, 32249), (180, 32213), (210, 32162), (213, 32153), (219, 32105), (223, 32090), (240, 31994),

Gene: Bradman_48 Start: 32001, Stop: 31303, Start Num: 46
Candidate Starts for Bradman_48:

(Start: 46 @32001 has 1 MA's), (119, 31770), (125, 31722), (127, 31710), (132, 31662), (147, 31623), (208, 31548), (219, 31485), (223, 31470),

Gene: Bradshaw_38 Start: 29170, Stop: 28409, Start Num: 48
Candidate Starts for Bradshaw_38:
(Start: 27 @29242 has 8 MA's), (Start: 48 @29170 has 36 MA's), (119, 28918), (125, 28870), (132, 28810), (139, 28789), (150, 28762), (159, 28738), (191, 28678), (204, 28663), (223, 28576), (226, 28558), (237, 28492), (240, 28480),

Gene: Braxoaddie_18 Start: 8796, Stop: 9779, Start Num: 18
Candidate Starts for Braxoaddie_18:
(Start: 18 @8796 has 1 MA's), (22, 8826), (30, 8865), (Start: 37 @8892 has 5 MA's), (58, 8931), (72, 8958), (85, 8988), (119, 9162), (144, 9312), (155, 9342), (182, 9417), (223, 9576), (234, 9651), (237, 9660),

Gene: BreSam8_52 Start: 33200, Stop: 32493, Start Num: 45
Candidate Starts for BreSam8_52:
(Start: 45 @33200 has 359 MA's), (118, 33008), (130, 32903), (137, 32870), (219, 32675), (223, 32660),

Gene: Broseidon_48 Start: 32783, Stop: 32064, Start Num: 50
Candidate Starts for Broseidon_48:
(Start: 50 @32783 has 204 MA's), (119, 32555), (125, 32507), (137, 32432), (145, 32411), (147, 32408), (206, 32312), (216, 32258), (219, 32246), (223, 32231), (225, 32225),

Gene: Bruiser_47 Start: 32781, Stop: 32062, Start Num: 50
Candidate Starts for Bruiser_47:
(Start: 50 @32781 has 204 MA's), (119, 32553), (125, 32505), (137, 32430), (145, 32409), (147, 32406), (206, 32310), (216, 32256), (219, 32244), (223, 32229), (225, 32223),

Gene: BrutonGaster_76 Start: 53061, Stop: 53798, Start Num: 57
Candidate Starts for BrutonGaster_76:
(Start: 50 @53046 has 204 MA's), (Start: 57 @53061 has 10 MA's), (Start: 68 @53079 has 6 MA's), (91, 53133), (104, 53169), (105, 53172), (119, 53292), (128, 53358), (186, 53487), (247, 53718),

Gene: Bryce_38 Start: 29145, Stop: 28384, Start Num: 48
Candidate Starts for Bryce_38:
(Start: 27 @29217 has 8 MA's), (Start: 48 @29145 has 36 MA's), (119, 28893), (125, 28845), (132, 28785), (139, 28764), (159, 28713), (191, 28653), (204, 28638), (223, 28551), (226, 28533), (237, 28467), (240, 28455),

Gene: BubbleTrouble_47 Start: 32781, Stop: 32062, Start Num: 50
Candidate Starts for BubbleTrouble_47:
(Start: 50 @32781 has 204 MA's), (119, 32553), (125, 32505), (137, 32430), (145, 32409), (147, 32406), (206, 32310), (216, 32256), (219, 32244), (223, 32229), (225, 32223),

Gene: Buckaroo_47 Start: 32785, Stop: 32066, Start Num: 50
Candidate Starts for Buckaroo_47:
(Start: 50 @32785 has 204 MA's), (119, 32557), (125, 32509), (137, 32434), (145, 32413), (147, 32410), (206, 32314), (216, 32260), (219, 32248), (223, 32233), (225, 32227),

Gene: Bud_49 Start: 32195, Stop: 31482, Start Num: 45
Candidate Starts for Bud_49:

(Start: 45 @32195 has 359 MA's), (Start: 77 @32144 has 1 MA's), (125, 31922), (130, 31880), (195, 31739), (213, 31709), (216, 31673), (219, 31661), (223, 31646), (225, 31640), (240, 31550),

Gene: Bugatti_51 Start: 33076, Stop: 32348, Start Num: 45
Candidate Starts for Bugatti_51:
(Start: 45 @33076 has 359 MA's), (111, 32896), (118, 32854), (130, 32749), (131, 32746), (174, 32647), (203, 32602), (219, 32530), (223, 32515),

Gene: Bugsy_51 Start: 33612, Stop: 32884, Start Num: 45
Candidate Starts for Bugsy_51:
(Start: 45 @33612 has 359 MA's), (119, 33375), (125, 33327), (130, 33285), (131, 33282), (213, 33114), (219, 33066), (223, 33051), (225, 33045),

Gene: Bumblebee11_46 Start: 32757, Stop: 32038, Start Num: 50
Candidate Starts for Bumblebee11_46:
(Start: 50 @32757 has 204 MA's), (119, 32529), (125, 32481), (131, 32436), (145, 32385), (147, 32382), (148, 32379), (206, 32286), (213, 32268), (219, 32220), (223, 32205),

Gene: Burger_46 Start: 32781, Stop: 32062, Start Num: 50
Candidate Starts for Burger_46:
(Start: 50 @32781 has 204 MA's), (119, 32553), (125, 32505), (137, 32430), (145, 32409), (147, 32406), (206, 32310), (216, 32256), (219, 32244), (223, 32229), (225, 32223),

Gene: BuzzBuzz_50 Start: 33237, Stop: 32530, Start Num: 45
Candidate Starts for BuzzBuzz_50:
(Start: 45 @33237 has 359 MA's), (118, 33045), (219, 32712), (223, 32697),

Gene: Bxz2_48 Start: 33244, Stop: 32537, Start Num: 45
Candidate Starts for Bxz2_48:
(Start: 45 @33244 has 359 MA's), (118, 33052), (219, 32719), (223, 32704),

Gene: C3_47 Start: 33241, Stop: 32555, Start Num: 45
Candidate Starts for C3_47:
(Start: 45 @33241 has 359 MA's), (119, 33031), (131, 32938), (132, 32923), (203, 32815), (213, 32791), (216, 32755), (219, 32743), (223, 32728), (228, 32692), (240, 32632),

Gene: C3PO_9 Start: 4740, Stop: 5513, Start Num: 48
Candidate Starts for C3PO_9:
(Start: 48 @4740 has 36 MA's), (51, 4752), (69, 4776), (76, 4794), (122, 5016), (133, 5103), (196, 5214), (223, 5304), (226, 5322), (227, 5334), (245, 5412), (249, 5424),

Gene: CRB1_53 Start: 33955, Stop: 33227, Start Num: 45
Candidate Starts for CRB1_53:
(Start: 45 @33955 has 359 MA's), (119, 33718), (130, 33628), (131, 33625), (213, 33457), (219, 33409), (223, 33394), (225, 33388), (240, 33298),

Gene: Caelakin_48 Start: 32781, Stop: 32062, Start Num: 50
Candidate Starts for Caelakin_48:
(Start: 50 @32781 has 204 MA's), (119, 32553), (125, 32505), (137, 32430), (145, 32409), (147, 32406), (206, 32310), (216, 32256), (219, 32244), (223, 32229), (225, 32223),

Gene: Cafasso_72 Start: 47063, Stop: 47767, Start Num: 68
Candidate Starts for Cafasso_72:

(Start: 68 @47063 has 6 MA's), (103, 47147), (119, 47276), (125, 47324), (127, 47336), (130, 47366), (141, 47411), (204, 47513), (219, 47585), (223, 47600),

Gene: Calvinny_52 Start: 33157, Stop: 32399, Start Num: 32
Candidate Starts for Calvinny_52:
(Start: 32 @33157 has 1 MA's), (Start: 45 @33097 has 359 MA's), (118, 32905), (130, 32800), (131, 32797), (149, 32746), (213, 32629), (219, 32581), (223, 32566),

Gene: Camperdownii_46 Start: 32454, Stop: 31735, Start Num: 50
Candidate Starts for Camperdownii_46:
(Start: 50 @32454 has 204 MA's), (119, 32226), (125, 32178), (137, 32103), (145, 32082), (147, 32079), (206, 31983), (216, 31929), (219, 31917), (223, 31902), (225, 31896),

Gene: Candra_52 Start: 32121, Stop: 31384, Start Num: 45
Candidate Starts for Candra_52:
(Start: 45 @32121 has 359 MA's), (74, 32076), (119, 31884), (132, 31776), (147, 31734), (198, 31647), (219, 31572), (225, 31551), (241, 31458),

Gene: Caraxes_48 Start: 31632, Stop: 30928, Start Num: 45
Candidate Starts for Caraxes_48:
(Start: 45 @31632 has 359 MA's), (107, 31536), (130, 31335), (131, 31332), (141, 31290), (154, 31269), (178, 31224), (219, 31116), (223, 31101), (224, 31098), (225, 31095), (240, 31005),

Gene: Cardigan_111 Start: 64862, Stop: 65608, Start Num: 55
Candidate Starts for Cardigan_111:
(Start: 55 @64862 has 5 MA's), (59, 64868), (Start: 68 @64880 has 6 MA's), (72, 64889), (74, 64895), (89, 64928), (104, 64979), (109, 65012), (124, 65141), (128, 65168), (132, 65213), (141, 65228), (163, 65267), (170, 65279), (208, 65339), (213, 65351), (225, 65420), (227, 65444), (239, 65507), (250, 65543), (256, 65594),

Gene: Cat_47 Start: 32597, Stop: 31875, Start Num: 45
Candidate Starts for Cat_47:
(Start: 45 @32597 has 359 MA's), (64, 32570), (72, 32555), (162, 32189), (168, 32180), (174, 32174), (219, 32057), (223, 32042),

Gene: Catalina_50 Start: 33025, Stop: 32321, Start Num: 45
Candidate Starts for Catalina_50:
(Start: 45 @33025 has 359 MA's), (74, 32980), (75, 32977), (Start: 77 @32974 has 1 MA's), (118, 32833), (119, 32818), (125, 32770), (130, 32728), (219, 32509), (223, 32494),

Gene: Caviar_48 Start: 33068, Stop: 32286, Start Num: 33
Candidate Starts for Caviar_48:
(Start: 33 @33068 has 7 MA's), (Start: 45 @33014 has 359 MA's), (70, 32978), (118, 32792), (130, 32687), (174, 32585), (219, 32468), (223, 32453), (240, 32357),

Gene: Celestialunch_47 Start: 32606, Stop: 31905, Start Num: 45
Candidate Starts for Celestialunch_47:
(Start: 45 @32606 has 359 MA's), (118, 32411), (119, 32396), (125, 32348), (135, 32279), (150, 32240), (198, 32162), (219, 32087), (223, 32072), (225, 32066), (240, 31976),

Gene: Centaur_50 Start: 33459, Stop: 32731, Start Num: 45
Candidate Starts for Centaur_50:

(Start: 45 @33459 has 359 MA's), (119, 33222), (125, 33174), (130, 33132), (131, 33129), (213, 32961), (219, 32913), (223, 32898), (225, 32892),

Gene: CentreCat_48 Start: 32784, Stop: 32065, Start Num: 50
Candidate Starts for CentreCat_48:
(Start: 50 @32784 has 204 MA's), (119, 32556), (125, 32508), (137, 32433), (145, 32412), (147, 32409), (206, 32313), (216, 32259), (219, 32247), (223, 32232), (225, 32226),

Gene: Cerulean_49 Start: 33204, Stop: 32485, Start Num: 50
Candidate Starts for Cerulean_49:
(Start: 50 @33204 has 204 MA's), (74, 33159), (119, 32976), (125, 32928), (145, 32832), (147, 32829), (216, 32679), (219, 32667), (223, 32652), (225, 32646),

Gene: Chadwick_45 Start: 31672, Stop: 30968, Start Num: 50
Candidate Starts for Chadwick_45:
(Start: 50 @31672 has 204 MA's), (117, 31477), (118, 31471), (125, 31408), (130, 31366), (131, 31363), (138, 31330), (174, 31264), (213, 31195), (219, 31147), (223, 31132),

Gene: ChampagnePapi_50 Start: 33203, Stop: 32484, Start Num: 50
Candidate Starts for ChampagnePapi_50:
(Start: 50 @33203 has 204 MA's), (74, 33158), (119, 32975), (125, 32927), (145, 32831), (147, 32828), (216, 32678), (219, 32666), (223, 32651), (225, 32645),

Gene: Changeling_48 Start: 33661, Stop: 32930, Start Num: 45
Candidate Starts for Changeling_48:
(Start: 45 @33661 has 359 MA's), (119, 33427), (130, 33337), (131, 33334), (175, 33232), (203, 33190), (213, 33166), (219, 33118), (223, 33103), (225, 33097), (228, 33067), (241, 33004),

Gene: Chaph_48 Start: 32792, Stop: 32073, Start Num: 50
Candidate Starts for Chaph_48:
(Start: 50 @32792 has 204 MA's), (119, 32564), (125, 32516), (137, 32441), (145, 32420), (147, 32417), (206, 32321), (216, 32267), (219, 32255), (223, 32240), (225, 32234),

Gene: Chargerpower_48 Start: 31983, Stop: 31276, Start Num: 45
Candidate Starts for Chargerpower_48:
(Start: 45 @31983 has 359 MA's), (119, 31773), (125, 31725), (130, 31683), (131, 31680), (135, 31656), (189, 31554), (198, 31539), (213, 31512), (219, 31464), (223, 31449), (240, 31353),

Gene: Charm_48 Start: 32829, Stop: 32122, Start Num: 45
Candidate Starts for Charm_48:
(Start: 45 @32829 has 359 MA's), (118, 32634), (119, 32619), (125, 32571), (135, 32502), (198, 32385), (206, 32376), (219, 32310), (223, 32295),

Gene: Chartreuse_50 Start: 31481, Stop: 30744, Start Num: 45
Candidate Starts for Chartreuse_50:
(Start: 45 @31481 has 359 MA's), (74, 31436), (119, 31244), (132, 31136), (147, 31094), (198, 31007), (219, 30932), (223, 30917), (225, 30911), (241, 30818),

Gene: Che12_51 Start: 32066, Stop: 31362, Start Num: 45
Candidate Starts for Che12_51:
(Start: 45 @32066 has 359 MA's), (126, 31808), (131, 31766), (141, 31724), (154, 31703), (174, 31667), (178, 31658), (219, 31550), (223, 31535), (228, 31499), (240, 31439),

Gene: CherryTomatoes_64 Start: 21847, Stop: 22584, Start Num: 57
Candidate Starts for CherryTomatoes_64:
(Start: 57 @21847 has 10 MA's), (91, 21919), (109, 21988), (144, 22216), (163, 22243), (192, 22282), (225, 22396), (239, 22483), (256, 22570),

Gene: ChewyVIII_31 Start: 14882, Stop: 15733, Start Num: 46
Candidate Starts for ChewyVIII_31:
(Start: 46 @14882 has 1 MA's), (78, 14948), (88, 14972), (103, 15029), (134, 15275), (146, 15317), (156, 15347), (198, 15437), (199, 15440), (214, 15515), (217, 15530), (219, 15539), (227, 15584), (239, 15647), (255, 15725),

Gene: ChipMunk_51 Start: 34806, Stop: 34081, Start Num: 45
Candidate Starts for ChipMunk_51:
(Start: 45 @34806 has 359 MA's), (119, 34572), (130, 34482), (131, 34479), (145, 34428), (170, 34383), (175, 34377), (213, 34311), (219, 34263), (223, 34248), (225, 34242),

Gene: Chiqui_47 Start: 33064, Stop: 32330, Start Num: 45
Candidate Starts for Chiqui_47:
(Start: 45 @33064 has 359 MA's), (70, 33028), (119, 32821), (130, 32731), (131, 32728), (174, 32629), (206, 32578), (219, 32512), (223, 32497), (240, 32401),

Gene: Chupacabra_46 Start: 32406, Stop: 31678, Start Num: 44
Candidate Starts for Chupacabra_46:
(Start: 44 @32406 has 13 MA's), (Start: 50 @32400 has 204 MA's), (54, 32388), (117, 32190), (119, 32169), (125, 32121), (130, 32079), (131, 32076), (139, 32040), (150, 32013), (168, 31986), (219, 31860), (223, 31845), (225, 31839),

Gene: Cici_47 Start: 32772, Stop: 32053, Start Num: 50
Candidate Starts for Cici_47:
(Start: 50 @32772 has 204 MA's), (119, 32544), (125, 32496), (131, 32451), (145, 32400), (147, 32397), (148, 32394), (206, 32301), (213, 32283), (219, 32235), (223, 32220),

Gene: Cindaradix_45 Start: 32397, Stop: 31678, Start Num: 50
Candidate Starts for Cindaradix_45:
(Start: 50 @32397 has 204 MA's), (119, 32169), (137, 32046), (147, 32022), (148, 32019), (206, 31926), (216, 31872), (219, 31860), (223, 31845),

Gene: Cintron_47 Start: 32761, Stop: 32042, Start Num: 50
Candidate Starts for Cintron_47:
(Start: 50 @32761 has 204 MA's), (119, 32533), (125, 32485), (137, 32410), (145, 32389), (147, 32386), (206, 32290), (216, 32236), (219, 32224), (223, 32209), (225, 32203),

Gene: Citius_48 Start: 32802, Stop: 32083, Start Num: 50
Candidate Starts for Citius_48:
(Start: 50 @32802 has 204 MA's), (119, 32574), (125, 32526), (137, 32451), (145, 32430), (147, 32427), (206, 32331), (216, 32277), (219, 32265), (223, 32250), (225, 32244),

Gene: Clammy_51 Start: 33076, Stop: 32348, Start Num: 45
Candidate Starts for Clammy_51:
(Start: 45 @33076 has 359 MA's), (111, 32896), (118, 32854), (130, 32749), (131, 32746), (174, 32647), (203, 32602), (219, 32530), (223, 32515),

Gene: Clarenza_47 Start: 32778, Stop: 32059, Start Num: 50

Candidate Starts for Clarenza_47:
(Start: 50 @32778 has 204 MA's), (119, 32550), (125, 32502), (137, 32427), (145, 32406), (147, 32403), (206, 32307), (216, 32253), (219, 32241), (223, 32226), (225, 32220),

Gene: CloudWang3_51 Start: 31870, Stop: 31142, Start Num: 45
Candidate Starts for CloudWang3_51:
(Start: 45 @31870 has 359 MA's), (74, 31825), (119, 31633), (125, 31585), (130, 31543), (131, 31540), (155, 31474), (180, 31438), (210, 31387), (213, 31378), (219, 31330), (223, 31315), (241, 31216),

Gene: ClownCar_52 Start: 33090, Stop: 32392, Start Num: 45
Candidate Starts for ClownCar_52:
(Start: 32 @33150 has 1 MA's), (Start: 45 @33090 has 359 MA's), (118, 32898), (130, 32793), (131, 32790), (149, 32739), (213, 32622), (219, 32574), (223, 32559),

Gene: Cocoaberry_48 Start: 32785, Stop: 32066, Start Num: 50
Candidate Starts for Cocoaberry_48:
(Start: 50 @32785 has 204 MA's), (119, 32557), (125, 32509), (137, 32434), (145, 32413), (147, 32410), (206, 32314), (216, 32260), (219, 32248), (223, 32233), (225, 32227),

Gene: CoffeeBean_18 Start: 8823, Stop: 9716, Start Num: 37
Candidate Starts for CoffeeBean_18:
(Start: 37 @8823 has 5 MA's), (58, 8865), (72, 8892), (85, 8922), (119, 9096), (144, 9246), (205, 9426), (224, 9516), (230, 9555), (234, 9588),

Gene: CogOmlette_48 Start: 32545, Stop: 31844, Start Num: 45
Candidate Starts for CogOmlette_48:
(Start: 45 @32545 has 359 MA's), (119, 32335), (125, 32287), (130, 32245), (135, 32218), (147, 32188), (150, 32179), (162, 32158), (198, 32101), (213, 32074), (219, 32026), (223, 32011),

Gene: Colbster_52 Start: 33210, Stop: 32503, Start Num: 45
Candidate Starts for Colbster_52:
(Start: 45 @33210 has 359 MA's), (118, 33018), (130, 32913), (137, 32880), (219, 32685), (223, 32670),

Gene: Colin_48 Start: 33432, Stop: 32701, Start Num: 45
Candidate Starts for Colin_48:
(Start: 45 @33432 has 359 MA's), (66, 33402), (74, 33387), (125, 33150), (130, 33108), (131, 33105), (145, 33054), (213, 32937), (219, 32889), (223, 32874), (228, 32838),

Gene: Commander_48 Start: 32780, Stop: 32061, Start Num: 50
Candidate Starts for Commander_48:
(Start: 50 @32780 has 204 MA's), (119, 32552), (125, 32504), (137, 32429), (145, 32408), (147, 32405), (206, 32309), (216, 32255), (219, 32243), (223, 32228), (225, 32222),

Gene: Connomayer_48 Start: 32781, Stop: 32062, Start Num: 50
Candidate Starts for Connomayer_48:
(Start: 50 @32781 has 204 MA's), (119, 32553), (125, 32505), (137, 32430), (145, 32409), (147, 32406), (206, 32310), (216, 32256), (219, 32244), (223, 32229), (225, 32223),

Gene: Conquerage_49 Start: 33048, Stop: 32344, Start Num: 45
Candidate Starts for Conquerage_49:
(Start: 45 @33048 has 359 MA's), (74, 33003), (75, 33000), (Start: 77 @32997 has 1 MA's), (118, 32856), (119, 32841), (125, 32793), (130, 32751), (219, 32532), (223, 32517),

Gene: Conspiracy_41 Start: 31718, Stop: 30999, Start Num: 50
Candidate Starts for Conspiracy_41:
(Start: 50 @31718 has 204 MA's), (Start: 77 @31664 has 1 MA's), (90, 31640), (103, 31616), (120, 31484), (147, 31340), (208, 31241), (219, 31178), (223, 31163), (228, 31127), (239, 31070),

Gene: Coog_41 Start: 31816, Stop: 31097, Start Num: 50
Candidate Starts for Coog_41:
(Start: 50 @31816 has 204 MA's), (Start: 77 @31762 has 1 MA's), (90, 31738), (103, 31714), (120, 31582), (147, 31438), (208, 31339), (219, 31276), (223, 31261), (228, 31225), (239, 31168),

Gene: Cookiedough_51 Start: 32094, Stop: 31360, Start Num: 45
Candidate Starts for Cookiedough_51:
(Start: 45 @32094 has 359 MA's), (74, 32049), (92, 32013), (119, 31857), (130, 31767), (131, 31764), (145, 31713), (198, 31623), (203, 31620), (213, 31596), (219, 31548), (223, 31533), (225, 31527), (241, 31434),

Gene: CosmicSans_38 Start: 29242, Stop: 28409, Start Num: 27
Candidate Starts for CosmicSans_38:
(Start: 27 @29242 has 8 MA's), (Start: 48 @29170 has 36 MA's), (119, 28918), (125, 28870), (132, 28810), (139, 28789), (150, 28762), (159, 28738), (191, 28678), (204, 28663), (223, 28576), (226, 28558), (237, 28492), (240, 28480),

Gene: Croquant_53 Start: 33205, Stop: 32498, Start Num: 45
Candidate Starts for Croquant_53:
(Start: 45 @33205 has 359 MA's), (118, 33013), (130, 32908), (137, 32875), (219, 32680), (223, 32665),

Gene: Crucio_49 Start: 33049, Stop: 32324, Start Num: 45
Candidate Starts for Crucio_49:
(Start: 45 @33049 has 359 MA's), (119, 32815), (130, 32725), (131, 32722), (145, 32671), (152, 32656), (203, 32578), (213, 32554), (219, 32506), (223, 32491), (224, 32488), (225, 32485), (240, 32395),

Gene: Cruella_9 Start: 4740, Stop: 5513, Start Num: 48
Candidate Starts for Cruella_9:
(Start: 48 @4740 has 36 MA's), (51, 4752), (69, 4776), (76, 4794), (122, 5016), (133, 5103), (196, 5214), (223, 5304), (226, 5322), (227, 5334), (245, 5412), (249, 5424),

Gene: Cuco_41 Start: 31773, Stop: 31054, Start Num: 50
Candidate Starts for Cuco_41:
(Start: 50 @31773 has 204 MA's), (74, 31725), (90, 31695), (130, 31452), (131, 31449), (147, 31395), (150, 31386), (203, 31308), (204, 31305), (219, 31233), (223, 31218), (228, 31182), (240, 31122),

Gene: Cullens_52 Start: 33206, Stop: 32499, Start Num: 45
Candidate Starts for Cullens_52:
(Start: 45 @33206 has 359 MA's), (118, 33014), (130, 32909), (137, 32876), (219, 32681), (223, 32666),

Gene: D29_48 Start: 32823, Stop: 32116, Start Num: 45
Candidate Starts for D29_48:
(Start: 45 @32823 has 359 MA's), (118, 32628), (119, 32613), (130, 32523), (131, 32520), (141, 32478), (219, 32304), (223, 32289), (240, 32193),

Gene: D32_50 Start: 32823, Stop: 32116, Start Num: 45
Candidate Starts for D32_50:
(Start: 45 @32823 has 359 MA's), (118, 32628), (119, 32613), (130, 32523), (131, 32520), (141, 32478), (219, 32304), (223, 32289), (240, 32193),

Gene: DBQu4n_51 Start: 32822, Stop: 32115, Start Num: 45
Candidate Starts for DBQu4n_51:
(Start: 45 @32822 has 359 MA's), (118, 32627), (119, 32612), (130, 32522), (131, 32519), (141, 32477), (219, 32303), (223, 32288), (240, 32192),

Gene: DaHudson_52 Start: 33199, Stop: 32492, Start Num: 45
Candidate Starts for DaHudson_52:
(Start: 45 @33199 has 359 MA's), (118, 33007), (130, 32902), (137, 32869), (219, 32674), (223, 32659),

Gene: DaVinci_50 Start: 31535, Stop: 30798, Start Num: 45
Candidate Starts for DaVinci_50:
(Start: 45 @31535 has 359 MA's), (74, 31490), (119, 31298), (132, 31190), (147, 31148), (198, 31061), (219, 30986), (223, 30971), (225, 30965), (241, 30872),

Gene: Daishi_51 Start: 32078, Stop: 31371, Start Num: 45
Candidate Starts for Daishi_51:
(Start: 45 @32078 has 359 MA's), (118, 31886), (219, 31553), (223, 31538),

Gene: Dalmatian_50 Start: 33441, Stop: 32716, Start Num: 45
Candidate Starts for Dalmatian_50:
(Start: 45 @33441 has 359 MA's), (119, 33207), (130, 33117), (131, 33114), (145, 33063), (175, 33012), (213, 32946), (219, 32898), (223, 32883), (225, 32877), (228, 32847), (240, 32787),

Gene: Darrell_51 Start: 33640, Stop: 32939, Start Num: 45
Candidate Starts for Darrell_51:
(Start: 45 @33640 has 359 MA's), (118, 33445), (119, 33430), (125, 33382), (130, 33340), (135, 33313), (147, 33283), (150, 33274), (162, 33253), (198, 33196), (219, 33121), (223, 33106),

Gene: DarthPhader_46 Start: 33859, Stop: 33155, Start Num: 45
Candidate Starts for DarthPhader_46:
(Start: 45 @33859 has 359 MA's), (118, 33667), (119, 33652), (131, 33559), (216, 33355), (219, 33343), (223, 33328), (225, 33322), (228, 33292), (248, 33211),

Gene: Darwin_9 Start: 4738, Stop: 5511, Start Num: 48
Candidate Starts for Darwin_9:
(Start: 48 @4738 has 36 MA's), (51, 4750), (69, 4774), (76, 4792), (122, 5014), (132, 5098), (133, 5101), (179, 5182), (196, 5212), (222, 5296), (223, 5302), (226, 5320), (227, 5332), (245, 5410), (249, 5422),

Gene: Datway_47 Start: 32743, Stop: 32024, Start Num: 50
Candidate Starts for Datway_47:
(Start: 50 @32743 has 204 MA's), (119, 32515), (125, 32467), (131, 32422), (145, 32371), (147, 32368), (148, 32365), (206, 32272), (213, 32254), (219, 32206), (223, 32191),

Gene: Deano_47 Start: 32789, Stop: 32070, Start Num: 50
Candidate Starts for Deano_47:

(Start: 50 @32789 has 204 MA's), (119, 32561), (125, 32513), (137, 32438), (145, 32417), (206, 32318), (216, 32264), (219, 32252), (223, 32237), (225, 32231),

Gene: DeerParkTS_47 Start: 32578, Stop: 31844, Start Num: 45
Candidate Starts for DeerParkTS_47:
(Start: 45 @32578 has 359 MA's), (125, 32293), (130, 32251), (131, 32248), (213, 32080), (219, 32032), (223, 32017), (225, 32011), (228, 31981),

Gene: DekHockey33_52 Start: 32026, Stop: 31304, Start Num: 49
Candidate Starts for DekHockey33_52:
(Start: 49 @32026 has 24 MA's), (87, 31948), (92, 31936), (119, 31786), (130, 31696), (131, 31693), (165, 31615), (219, 31486), (223, 31471),

Gene: Deloris_50 Start: 33234, Stop: 32506, Start Num: 45
Candidate Starts for Deloris_50:
(Start: 45 @33234 has 359 MA's), (119, 32997), (130, 32907), (131, 32904), (170, 32808), (175, 32802), (189, 32778), (203, 32760), (219, 32688), (223, 32673), (225, 32667), (240, 32577),

Gene: DelvinSonDorr_49 Start: 31970, Stop: 31236, Start Num: 45
Candidate Starts for DelvinSonDorr_49:
(Start: 45 @31970 has 359 MA's), (74, 31925), (119, 31733), (125, 31685), (130, 31643), (131, 31640), (145, 31589), (213, 31472), (219, 31424), (223, 31409), (225, 31403), (241, 31310),

Gene: Dhanush_48 Start: 32784, Stop: 32065, Start Num: 50
Candidate Starts for Dhanush_48:
(Start: 50 @32784 has 204 MA's), (119, 32556), (125, 32508), (137, 32433), (145, 32412), (147, 32409), (206, 32313), (216, 32259), (219, 32247), (223, 32232), (225, 32226),

Gene: Dieselweasel_53 Start: 33209, Stop: 32502, Start Num: 45
Candidate Starts for Dieselweasel_53:
(Start: 45 @33209 has 359 MA's), (118, 33017), (130, 32912), (137, 32879), (219, 32684), (223, 32669),

Gene: Dignity_51 Start: 33614, Stop: 32889, Start Num: 45
Candidate Starts for Dignity_51:
(Start: 45 @33614 has 359 MA's), (119, 33380), (130, 33290), (131, 33287), (175, 33185), (213, 33119), (219, 33071), (223, 33056), (225, 33050),

Gene: Dinger_38 Start: 29233, Stop: 28472, Start Num: 48
Candidate Starts for Dinger_38:
(Start: 27 @29305 has 8 MA's), (Start: 48 @29233 has 36 MA's), (119, 28981), (125, 28933), (132, 28873), (139, 28852), (159, 28801), (191, 28741), (204, 28726), (223, 28639), (226, 28621),

Gene: DirtyDunning_47 Start: 32802, Stop: 32083, Start Num: 50
Candidate Starts for DirtyDunning_47:
(Start: 50 @32802 has 204 MA's), (74, 32757), (119, 32574), (145, 32430), (147, 32427), (206, 32331), (219, 32265), (223, 32250),

Gene: Discoknowium_40 Start: 31509, Stop: 30796, Start Num: 50
Candidate Starts for Discoknowium_40:
(Start: 50 @31509 has 204 MA's), (74, 31461), (90, 31431), (118, 31293), (127, 31218), (130, 31188), (131, 31185), (155, 31119), (176, 31083), (209, 31032), (212, 31023), (219, 30975), (223, 30960), (228, 30924), (239, 30867),

Gene: DontArgue_46 Start: 31645, Stop: 30914, Start Num: 44
Candidate Starts for DontArgue_46:
(Start: 44 @31645 has 13 MA's), (Start: 50 @31636 has 204 MA's), (119, 31405), (130, 31315), (131, 31312), (173, 31216), (174, 31213), (216, 31108), (219, 31096), (223, 31081), (240, 30985),

Gene: Dorothea_51 Start: 32104, Stop: 31367, Start Num: 45
Candidate Starts for Dorothea_51:
(Start: 45 @32104 has 359 MA's), (74, 32059), (119, 31867), (132, 31759), (147, 31717), (198, 31630), (219, 31555), (223, 31540), (225, 31534), (241, 31441),

Gene: Drake55_51 Start: 33535, Stop: 32807, Start Num: 45
Candidate Starts for Drake55_51:
(Start: 45 @33535 has 359 MA's), (119, 33298), (125, 33250), (130, 33208), (131, 33205), (213, 33037), (219, 32989), (223, 32974), (225, 32968),

Gene: Drake94_45 Start: 31682, Stop: 30954, Start Num: 44
Candidate Starts for Drake94_45:
(Start: 44 @31682 has 13 MA's), (Start: 50 @31676 has 204 MA's), (119, 31445), (125, 31397), (130, 31355), (131, 31352), (139, 31316), (150, 31289), (219, 31136), (223, 31121), (240, 31025),

Gene: DreamTeam1_48 Start: 32703, Stop: 31996, Start Num: 45
Candidate Starts for DreamTeam1_48:
(Start: 45 @32703 has 359 MA's), (118, 32508), (119, 32493), (125, 32445), (135, 32376), (198, 32259), (206, 32250), (219, 32184), (223, 32169),

Gene: DropBear_49 Start: 32964, Stop: 32236, Start Num: 45
Candidate Starts for DropBear_49:
(Start: 45 @32964 has 359 MA's), (70, 32928), (111, 32784), (118, 32742), (130, 32637), (131, 32634), (174, 32535), (219, 32418), (223, 32403), (225, 32397),

Gene: Druantia_48 Start: 32784, Stop: 32065, Start Num: 50
Candidate Starts for Druantia_48:
(Start: 50 @32784 has 204 MA's), (119, 32556), (125, 32508), (137, 32433), (145, 32412), (147, 32409), (206, 32313), (216, 32259), (219, 32247), (223, 32232), (225, 32226),

Gene: Dublin_40 Start: 31537, Stop: 30818, Start Num: 50
Candidate Starts for Dublin_40:
(Start: 50 @31537 has 204 MA's), (74, 31489), (90, 31459), (125, 31258), (126, 31255), (131, 31213), (216, 31009), (219, 30997), (223, 30982), (228, 30946), (229, 30943), (240, 30886),

Gene: DudeLittle_48 Start: 33183, Stop: 32458, Start Num: 45
Candidate Starts for DudeLittle_48:
(Start: 45 @33183 has 359 MA's), (119, 32949), (130, 32859), (131, 32856), (145, 32805), (213, 32688), (219, 32640), (223, 32625), (225, 32619),

Gene: Duplo_51 Start: 32860, Stop: 32153, Start Num: 45
Candidate Starts for Duplo_51:
(Start: 45 @32860 has 359 MA's), (118, 32665), (119, 32650), (130, 32560), (131, 32557), (141, 32515), (219, 32341), (223, 32326), (240, 32230),

Gene: DustyMartin_51 Start: 32495, Stop: 31758, Start Num: 44
Candidate Starts for DustyMartin_51:

(Start: 44 @32495 has 13 MA's), (Start: 50 @32489 has 204 MA's), (92, 32402), (119, 32249), (125, 32201), (130, 32159), (131, 32156), (147, 32102), (158, 32087), (175, 32054), (206, 32006), (219, 31940), (223, 31925), (240, 31829),

Gene: E3_gp66 Start: 25499, Stop: 26308, Start Num: 45
Candidate Starts for E3_gp66:
(Start: 45 @25499 has 359 MA's), (61, 25529), (Start: 68 @25544 has 6 MA's), (121, 25793), (143, 25910), (190, 25973), (218, 26063), (223, 26084), (224, 26087), (225, 26090), (237, 26168), (256, 26267), (258, 26273), (259, 26297),

Gene: EZMoney23_47 Start: 32987, Stop: 32256, Start Num: 45
Candidate Starts for EZMoney23_47:
(Start: 45 @32987 has 359 MA's), (74, 32942), (118, 32768), (119, 32753), (130, 32663), (131, 32660), (145, 32609), (219, 32444), (223, 32429), (225, 32423), (240, 32333),

Gene: Eagle_48 Start: 32806, Stop: 32087, Start Num: 50
Candidate Starts for Eagle_48:
(Start: 50 @32806 has 204 MA's), (119, 32578), (125, 32530), (137, 32455), (145, 32434), (147, 32431), (206, 32335), (216, 32281), (219, 32269), (223, 32254), (225, 32248),

Gene: EagleEye_51 Start: 32618, Stop: 31875, Start Num: 45
Candidate Starts for EagleEye_51:
(Start: 45 @32618 has 359 MA's), (130, 32291), (131, 32288), (141, 32246), (219, 32063), (223, 32048),

Gene: Eaglepride_48 Start: 32476, Stop: 31748, Start Num: 44
Candidate Starts for Eaglepride_48:
(Start: 44 @32476 has 13 MA's), (Start: 50 @32470 has 204 MA's), (117, 32260), (119, 32239), (125, 32191), (130, 32149), (131, 32146), (139, 32110), (150, 32083), (219, 31930), (223, 31915), (240, 31819),

Gene: Eapen_48 Start: 32776, Stop: 32057, Start Num: 50
Candidate Starts for Eapen_48:
(Start: 50 @32776 has 204 MA's), (119, 32548), (125, 32500), (137, 32425), (145, 32404), (147, 32401), (206, 32305), (216, 32251), (219, 32239), (223, 32224), (225, 32218),

Gene: Ebony_49 Start: 32212, Stop: 31499, Start Num: 45
Candidate Starts for Ebony_49:
(Start: 45 @32212 has 359 MA's), (Start: 77 @32161 has 1 MA's), (125, 31939), (130, 31897), (195, 31756), (213, 31726), (216, 31690), (219, 31678), (223, 31663), (225, 31657), (240, 31567),

Gene: Echild_49 Start: 32520, Stop: 31795, Start Num: 45
Candidate Starts for Echild_49:
(Start: 45 @32520 has 359 MA's), (119, 32286), (130, 32196), (131, 32193), (145, 32142), (189, 32067), (219, 31977), (223, 31962), (225, 31956), (240, 31866),

Gene: Edison31_46 Start: 32435, Stop: 31698, Start Num: 44
Candidate Starts for Edison31_46:
(Start: 44 @32435 has 13 MA's), (Start: 50 @32429 has 204 MA's), (119, 32189), (125, 32141), (130, 32099), (131, 32096), (158, 32027), (175, 31994), (203, 31955), (219, 31880), (223, 31865), (228, 31829), (240, 31769),

Gene: EdogawaKiddo_49 Start: 33025, Stop: 32321, Start Num: 45

Candidate Starts for EdogawaKiddo_49:
(Start: 45 @33025 has 359 MA's), (74, 32980), (75, 32977), (Start: 77 @32974 has 1 MA's), (118, 32833), (119, 32818), (125, 32770), (130, 32728), (219, 32509), (223, 32494),

Gene: EhyElimayoE_6 Start: 3780, Stop: 2992, Start Num: 56
Candidate Starts for EhyElimayoE_6:
(35, 3849), (Start: 56 @3780 has 8 MA's), (63, 3771), (70, 3759), (119, 3513), (124, 3474), (132, 3399), (180, 3309), (193, 3288), (215, 3219), (221, 3195), (223, 3183), (237, 3099), (244, 3075), (257, 2997),

Gene: Eidsmoe_49 Start: 33088, Stop: 32384, Start Num: 45
Candidate Starts for Eidsmoe_49:
(Start: 45 @33088 has 359 MA's), (74, 33043), (75, 33040), (Start: 77 @33037 has 1 MA's), (118, 32896), (119, 32881), (125, 32833), (130, 32791), (219, 32572), (223, 32557),

Gene: ElTiger69_43 Start: 31689, Stop: 30985, Start Num: 50
Candidate Starts for ElTiger69_43:
(Start: 50 @31689 has 204 MA's), (125, 31425), (145, 31329), (147, 31326), (148, 31323), (208, 31227), (219, 31164), (223, 31149), (232, 31092),

Gene: Elephantoon_48 Start: 32391, Stop: 31690, Start Num: 45
Candidate Starts for Elephantoon_48:
(Start: 45 @32391 has 359 MA's), (118, 32196), (125, 32133), (130, 32091), (135, 32064), (147, 32034), (150, 32025), (162, 32004), (198, 31947), (219, 31872), (223, 31857),

Gene: Elle_46 Start: 29802, Stop: 29068, Start Num: 49
Candidate Starts for Elle_46:
(Start: 49 @29802 has 24 MA's), (94, 29712), (119, 29559), (130, 29469), (137, 29436), (172, 29370), (219, 29250), (223, 29235), (240, 29139),

Gene: EmyBug_48 Start: 33090, Stop: 32386, Start Num: 45
Candidate Starts for EmyBug_48:
(Start: 45 @33090 has 359 MA's), (74, 33045), (75, 33042), (Start: 77 @33039 has 1 MA's), (118, 32898), (119, 32883), (125, 32835), (130, 32793), (219, 32574), (223, 32559),

Gene: EpicPhail_53 Start: 33210, Stop: 32503, Start Num: 45
Candidate Starts for EpicPhail_53:
(Start: 45 @33210 has 359 MA's), (118, 33018), (130, 32913), (137, 32880), (219, 32685), (223, 32670),

Gene: Epsocamisio_50 Start: 31322, Stop: 30624, Start Num: 49
Candidate Starts for Epsocamisio_50:
(Start: 49 @31322 has 24 MA's), (81, 31265), (119, 31106), (130, 31016), (131, 31013), (165, 30935), (219, 30806), (223, 30791),

Gene: Equemioh13_50 Start: 33361, Stop: 32633, Start Num: 45
Candidate Starts for Equemioh13_50:
(Start: 45 @33361 has 359 MA's), (119, 33124), (125, 33076), (130, 33034), (131, 33031), (213, 32863), (219, 32815), (223, 32800), (225, 32794),

Gene: EricB_51 Start: 32078, Stop: 31341, Start Num: 45
Candidate Starts for EricB_51:
(Start: 45 @32078 has 359 MA's), (74, 32033), (119, 31841), (132, 31733), (147, 31691), (198, 31604), (219, 31529), (223, 31514), (225, 31508), (241, 31415),

Gene: Erik_38 Start: 29168, Stop: 28407, Start Num: 48
Candidate Starts for Erik_38:
(26, 29255), (Start: 27 @29240 has 8 MA's), (Start: 48 @29168 has 36 MA's), (54, 29153), (119, 28916), (125, 28868), (132, 28808), (139, 28787), (159, 28736), (191, 28676), (204, 28661), (223, 28574), (226, 28556), (237, 28490), (240, 28478),

Gene: Eris_47 Start: 32781, Stop: 32062, Start Num: 50
Candidate Starts for Eris_47:
(Start: 50 @32781 has 204 MA's), (119, 32553), (125, 32505), (137, 32430), (145, 32409), (147, 32406), (206, 32310), (216, 32256), (219, 32244), (223, 32229), (225, 32223),

Gene: Eros_48 Start: 32783, Stop: 32064, Start Num: 50
Candidate Starts for Eros_48:
(Start: 50 @32783 has 204 MA's), (119, 32555), (125, 32507), (137, 32432), (145, 32411), (147, 32408), (206, 32312), (216, 32258), (219, 32246), (223, 32231), (225, 32225),

Gene: Espica_38 Start: 29243, Stop: 28410, Start Num: 27
Candidate Starts for Espica_38:
(Start: 27 @29243 has 8 MA's), (Start: 48 @29171 has 36 MA's), (119, 28919), (125, 28871), (132, 28811), (139, 28790), (159, 28739), (191, 28679), (204, 28664), (223, 28577), (226, 28559), (237, 28493), (240, 28481),

Gene: Et2Brutus_48 Start: 32172, Stop: 31459, Start Num: 45
Candidate Starts for Et2Brutus_48:
(Start: 45 @32172 has 359 MA's), (Start: 77 @32121 has 1 MA's), (125, 31899), (130, 31857), (195, 31716), (213, 31686), (216, 31650), (219, 31638), (223, 31623), (225, 31617), (240, 31527),

Gene: EtoileNova_49 Start: 33018, Stop: 32290, Start Num: 45
Candidate Starts for EtoileNova_49:
(Start: 33 @33072 has 7 MA's), (Start: 45 @33018 has 359 MA's), (70, 32982), (118, 32796), (130, 32691), (174, 32589), (219, 32472), (223, 32457), (240, 32361),

Gene: Eurydice_49 Start: 32778, Stop: 32059, Start Num: 50
Candidate Starts for Eurydice_49:
(Start: 50 @32778 has 204 MA's), (119, 32550), (125, 32502), (137, 32427), (145, 32406), (147, 32403), (206, 32307), (216, 32253), (219, 32241), (223, 32226), (225, 32220),

Gene: EvilGenius_51 Start: 34810, Stop: 34085, Start Num: 45
Candidate Starts for EvilGenius_51:
(Start: 45 @34810 has 359 MA's), (119, 34576), (130, 34486), (131, 34483), (145, 34432), (170, 34387), (175, 34381), (213, 34315), (219, 34267), (223, 34252), (225, 34246),

Gene: ExplosioNervosa_49 Start: 33108, Stop: 32404, Start Num: 45
Candidate Starts for ExplosioNervosa_49:
(Start: 45 @33108 has 359 MA's), (74, 33063), (75, 33060), (Start: 77 @33057 has 1 MA's), (118, 32916), (119, 32901), (125, 32853), (130, 32811), (219, 32592), (223, 32577),

Gene: Fameo_49 Start: 33359, Stop: 32634, Start Num: 45
Candidate Starts for Fameo_49:
(Start: 45 @33359 has 359 MA's), (119, 33125), (130, 33035), (131, 33032), (145, 32981), (152, 32966), (203, 32888), (219, 32816), (223, 32801), (225, 32795),

Gene: Farber_52 Start: 33199, Stop: 32492, Start Num: 45
Candidate Starts for Farber_52:
(Start: 45 @33199 has 359 MA's), (118, 33007), (219, 32674), (223, 32659),

Gene: FatCactus_41 Start: 30367, Stop: 29636, Start Num: 47
Candidate Starts for FatCactus_41:
(Start: 47 @30367 has 2 MA's), (125, 30079), (130, 30037), (131, 30034), (141, 29992), (165, 29944), (213, 29866), (219, 29818), (223, 29803), (228, 29767), (237, 29719),

Gene: Fayely_49 Start: 33057, Stop: 32353, Start Num: 45
Candidate Starts for Fayely_49:
(Start: 45 @33057 has 359 MA's), (74, 33012), (75, 33009), (Start: 77 @33006 has 1 MA's), (118, 32865), (119, 32850), (125, 32802), (130, 32760), (219, 32541), (223, 32526),

Gene: Fernando_52 Start: 33206, Stop: 32499, Start Num: 45
Candidate Starts for Fernando_52:
(Start: 45 @33206 has 359 MA's), (118, 33014), (130, 32909), (137, 32876), (219, 32681), (223, 32666),

Gene: Fibonacci_49 Start: 32187, Stop: 31474, Start Num: 45
Candidate Starts for Fibonacci_49:
(Start: 45 @32187 has 359 MA's), (Start: 77 @32136 has 1 MA's), (125, 31914), (130, 31872), (195, 31731), (213, 31701), (216, 31665), (219, 31653), (223, 31638), (225, 31632), (240, 31542),

Gene: FiringLine_49 Start: 33030, Stop: 32305, Start Num: 45
Candidate Starts for FiringLine_49:
(Start: 45 @33030 has 359 MA's), (119, 32796), (130, 32706), (131, 32703), (145, 32652), (170, 32607), (175, 32601), (213, 32535), (219, 32487), (223, 32472), (225, 32466), (240, 32376),

Gene: First_0051 Start: 33488, Stop: 32760, Start Num: 45
Candidate Starts for First_0051:
(Start: 45 @33488 has 359 MA's), (119, 33251), (130, 33161), (131, 33158), (175, 33056), (213, 32990), (219, 32942), (223, 32927), (225, 32921), (240, 32831),

Gene: Flare16_49 Start: 33120, Stop: 32392, Start Num: 45
Candidate Starts for Flare16_49:
(Start: 45 @33120 has 359 MA's), (119, 32883), (125, 32835), (130, 32793), (131, 32790), (213, 32622), (219, 32574), (223, 32559), (225, 32553),

Gene: Flaverint_50 Start: 32639, Stop: 31920, Start Num: 45
Candidate Starts for Flaverint_50:
(Start: 45 @32639 has 359 MA's), (74, 32594), (119, 32402), (125, 32354), (130, 32312), (131, 32309), (155, 32243), (180, 32207), (210, 32156), (213, 32147), (219, 32099), (223, 32084), (240, 31988),

Gene: Florean_48 Start: 32780, Stop: 32061, Start Num: 50
Candidate Starts for Florean_48:
(Start: 50 @32780 has 204 MA's), (119, 32552), (125, 32504), (137, 32429), (145, 32408), (147, 32405), (206, 32309), (216, 32255), (219, 32243), (223, 32228), (225, 32222),

Gene: Florence1_40 Start: 31384, Stop: 30671, Start Num: 50
Candidate Starts for Florence1_40:
(Start: 50 @31384 has 204 MA's), (74, 31336), (90, 31306), (125, 31105), (130, 31063), (131, 31060), (155, 30994), (176, 30958), (209, 30907), (212, 30898), (219, 30850), (223, 30835), (228, 30799),

(240, 30739),

Gene: Florence4_41 Start: 31384, Stop: 30671, Start Num: 50
Candidate Starts for Florence4_41:
(Start: 50 @31384 has 204 MA's), (74, 31336), (90, 31306), (125, 31105), (130, 31063), (131, 31060), (155, 30994), (176, 30958), (209, 30907), (212, 30898), (219, 30850), (223, 30835), (228, 30799), (240, 30739),

Gene: Flux_48 Start: 32780, Stop: 32061, Start Num: 50
Candidate Starts for Flux_48:
(Start: 50 @32780 has 204 MA's), (119, 32552), (125, 32504), (137, 32429), (145, 32408), (147, 32405), (206, 32309), (216, 32255), (219, 32243), (223, 32228), (225, 32222),

Gene: FlyCatcher_53 Start: 35123, Stop: 34428, Start Num: 50
Candidate Starts for FlyCatcher_53:
(Start: 50 @35123 has 204 MA's), (72, 35081), (75, 35075), (119, 34919), (137, 34796), (160, 34748), (173, 34727), (188, 34700), (219, 34610), (223, 34595), (247, 34481),

Gene: ForGetIt_41 Start: 31743, Stop: 31024, Start Num: 50
Candidate Starts for ForGetIt_41:
(Start: 50 @31743 has 204 MA's), (Start: 77 @31689 has 1 MA's), (90, 31665), (103, 31641), (120, 31509), (147, 31365), (208, 31266), (219, 31203), (223, 31188), (228, 31152), (239, 31095),

Gene: ForesterFrank_48 Start: 33733, Stop: 32999, Start Num: 45
Candidate Starts for ForesterFrank_48:
(Start: 45 @33733 has 359 MA's), (74, 33688), (119, 33496), (130, 33406), (131, 33403), (175, 33301), (213, 33235), (219, 33187), (223, 33172), (225, 33166), (228, 33136), (241, 33073),

Gene: Frankenweenie_9 Start: 4386, Stop: 3541, Start Num: 36
Candidate Starts for Frankenweenie_9:
(1, 4770), (16, 4524), (25, 4440), (Start: 36 @4386 has 1 MA's), (Start: 56 @4323 has 8 MA's), (63, 4314), (70, 4302), (112, 4128), (124, 4023), (180, 3858), (193, 3837), (215, 3768), (221, 3744), (223, 3732), (244, 3624), (257, 3546),

Gene: Fred313_49 Start: 32649, Stop: 31921, Start Num: 45
Candidate Starts for Fred313_49:
(Start: 45 @32649 has 359 MA's), (70, 32613), (111, 32469), (118, 32427), (130, 32322), (131, 32319), (174, 32220), (219, 32103), (223, 32088), (225, 32082),

Gene: Fudan_160 Start: 85740, Stop: 86450, Start Num: 50
Candidate Starts for Fudan_160:
(Start: 50 @85740 has 204 MA's), (66, 85770), (74, 85791), (107, 85860), (110, 85902), (123, 86001), (124, 86010), (127, 86034), (134, 86088), (147, 86121), (217, 86262), (220, 86274), (224, 86289), (228, 86322), (243, 86391),

Gene: Funston_47 Start: 32781, Stop: 32062, Start Num: 50
Candidate Starts for Funston_47:
(Start: 50 @32781 has 204 MA's), (119, 32553), (125, 32505), (137, 32430), (145, 32409), (147, 32406), (206, 32310), (216, 32256), (219, 32244), (223, 32229), (225, 32223),

Gene: GMA2_44 Start: 44773, Stop: 44075, Start Num: 60
Candidate Starts for GMA2_44:

(Start: 46 @44797 has 1 MA's), (60, 44773), (75, 44743), (95, 44701), (116, 44575), (124, 44512), (131, 44455), (132, 44440), (141, 44413), (169, 44368), (188, 44341), (198, 44329), (208, 44314), (226, 44221), (228, 44203), (234, 44164), (238, 44152), (246, 44128),

Gene: GMA3_42 Start: 42519, Stop: 41794, Start Num: 57
Candidate Starts for GMA3_42:
(Start: 57 @42519 has 10 MA's), (73, 42495), (91, 42453), (93, 42447), (107, 42402), (131, 42195), (211, 42054), (227, 41958), (234, 41913), (239, 41895), (246, 41877),

Gene: Gadost_48 Start: 32785, Stop: 32066, Start Num: 50
Candidate Starts for Gadost_48:
(Start: 50 @32785 has 204 MA's), (119, 32557), (125, 32509), (137, 32434), (145, 32413), (147, 32410), (206, 32314), (216, 32260), (219, 32248), (223, 32233), (225, 32227),

Gene: Gagieri_17 Start: 8422, Stop: 9339, Start Num: 37
Candidate Starts for Gagieri_17:
(21, 8347), (25, 8371), (30, 8395), (Start: 37 @8422 has 5 MA's), (58, 8485), (85, 8542), (144, 8866), (182, 8977), (200, 9034), (224, 9139), (234, 9211),

Gene: Gaia_90 Start: 53810, Stop: 54535, Start Num: 50
Candidate Starts for Gaia_90:
(Start: 50 @53810 has 204 MA's), (119, 54044), (125, 54092), (131, 54137), (132, 54152), (174, 54236), (219, 54353), (223, 54368), (228, 54404), (237, 54452), (240, 54464), (241, 54467), (245, 54476),

Gene: Gallia_16 Start: 8763, Stop: 9548, Start Num: 40
Candidate Starts for Gallia_16:
(40, 8763), (54, 8793), (100, 8889), (141, 9165), (166, 9204), (216, 9321), (227, 9378),

Gene: Garak_53 Start: 32237, Stop: 31509, Start Num: 45
Candidate Starts for Garak_53:
(Start: 45 @32237 has 359 MA's), (74, 32192), (119, 32000), (125, 31952), (130, 31910), (131, 31907), (155, 31841), (180, 31805), (210, 31754), (213, 31745), (219, 31697), (223, 31682), (241, 31583),

Gene: Garnacho_156 Start: 85708, Stop: 86412, Start Num: 50
Candidate Starts for Garnacho_156:
(Start: 50 @85708 has 204 MA's), (66, 85738), (74, 85759), (103, 85810), (110, 85870), (115, 85906), (119, 85939), (124, 85978), (127, 86002), (129, 86020), (132, 86050), (134, 86056), (141, 86077), (150, 86098), (161, 86116), (177, 86125), (204, 86161), (217, 86224), (235, 86326), (248, 86365),

Gene: GaugeLDP_47 Start: 33391, Stop: 32687, Start Num: 45
Candidate Starts for GaugeLDP_47:
(Start: 45 @33391 has 359 MA's), (114, 33226), (119, 33184), (125, 33136), (127, 33124), (130, 33094), (131, 33091), (203, 32947), (213, 32923), (217, 32884), (219, 32875), (223, 32860), (225, 32854),

Gene: Gemma_51 Start: 33093, Stop: 32395, Start Num: 45
Candidate Starts for Gemma_51:
(Start: 32 @33153 has 1 MA's), (Start: 45 @33093 has 359 MA's), (118, 32901), (130, 32796), (131, 32793), (149, 32742), (213, 32625), (219, 32577), (223, 32562),

Gene: George_41 Start: 31961, Stop: 31248, Start Num: 50
Candidate Starts for George_41:

(Start: 50 @31961 has 204 MA's), (74, 31913), (90, 31883), (130, 31640), (131, 31637), (155, 31571), (176, 31535), (209, 31484), (212, 31475), (219, 31427), (223, 31412), (228, 31376), (240, 31316),

Gene: Georgie2_50 Start: 33075, Stop: 32350, Start Num: 45
Candidate Starts for Georgie2_50:
(Start: 45 @33075 has 359 MA's), (119, 32841), (130, 32751), (131, 32748), (145, 32697), (152, 32682), (203, 32604), (213, 32580), (219, 32532), (223, 32517), (225, 32511), (240, 32421),

Gene: Ghoulboy_43 Start: 32480, Stop: 31761, Start Num: 50
Candidate Starts for Ghoulboy_43:
(Start: 50 @32480 has 204 MA's), (74, 32432), (118, 32264), (131, 32156), (216, 31952), (219, 31940), (223, 31925), (228, 31889), (239, 31832),

Gene: GiJojo_153 Start: 86545, Stop: 87249, Start Num: 50
Candidate Starts for GiJojo_153:
(Start: 50 @86545 has 204 MA's), (Start: 55 @86560 has 5 MA's), (103, 86647), (107, 86665), (110, 86707), (124, 86815), (127, 86839), (132, 86887), (134, 86893), (140, 86911), (157, 86938), (161, 86953), (217, 87061), (225, 87091), (228, 87121),

Gene: Gilberta_50 Start: 32629, Stop: 31910, Start Num: 45
Candidate Starts for Gilberta_50:
(Start: 45 @32629 has 359 MA's), (74, 32584), (119, 32392), (125, 32344), (130, 32302), (131, 32299), (155, 32233), (180, 32197), (210, 32146), (213, 32137), (219, 32089), (223, 32074), (240, 31978),

Gene: GingkoMaracino_52 Start: 33092, Stop: 32385, Start Num: 45
Candidate Starts for GingkoMaracino_52:
(Start: 45 @33092 has 359 MA's), (118, 32900), (130, 32795), (137, 32762), (219, 32567), (223, 32552),

Gene: Giroux_51 Start: 33075, Stop: 32347, Start Num: 45
Candidate Starts for Giroux_51:
(28, 33144), (Start: 45 @33075 has 359 MA's), (111, 32895), (118, 32853), (130, 32748), (131, 32745), (174, 32646), (203, 32601), (219, 32529), (223, 32514),

Gene: Gladiator_49 Start: 31406, Stop: 30672, Start Num: 45
Candidate Starts for Gladiator_49:
(Start: 45 @31406 has 359 MA's), (74, 31361), (92, 31325), (119, 31169), (130, 31079), (131, 31076), (145, 31025), (198, 30935), (203, 30932), (213, 30908), (219, 30860), (223, 30845), (225, 30839), (241, 30746),

Gene: Gmala1_42 Start: 41527, Stop: 40772, Start Num: 53
Candidate Starts for Gmala1_42:
(53, 41527), (75, 41491), (96, 41443), (149, 41146), (217, 41005), (225, 40975), (227, 40951), (234, 40906), (246, 40870), (248, 40864), (249, 40861),

Gene: Gollum_38 Start: 29170, Stop: 28409, Start Num: 48
Candidate Starts for Gollum_38:
(Start: 27 @29242 has 8 MA's), (Start: 48 @29170 has 36 MA's), (54, 29155), (119, 28918), (125, 28870), (132, 28810), (139, 28789), (159, 28738), (191, 28678), (204, 28663), (223, 28576), (226, 28558), (237, 28492), (240, 28480),

Gene: Goose_47 Start: 32213, Stop: 31482, Start Num: 50
Candidate Starts for Goose_47:

(Start: 44 @32219 has 13 MA's), (Start: 50 @32213 has 204 MA's), (117, 31994), (119, 31973), (125, 31925), (130, 31883), (131, 31880), (174, 31784), (223, 31649), (240, 31553),

Gene: Goose1D_43 Start: 29097, Stop: 28369, Start Num: 45
Candidate Starts for Goose1D_43:
(Start: 45 @29097 has 359 MA's), (70, 29061), (111, 28917), (118, 28875), (130, 28770), (131, 28767), (174, 28668), (219, 28551), (223, 28536), (225, 28530),

Gene: Goose1X_49 Start: 32239, Stop: 31511, Start Num: 45
Candidate Starts for Goose1X_49:
(Start: 45 @32239 has 359 MA's), (70, 32203), (111, 32059), (118, 32017), (130, 31912), (131, 31909), (174, 31810), (219, 31693), (223, 31678), (225, 31672),

Gene: GordDuk1_42 Start: 41470, Stop: 40643, Start Num: 53
Candidate Starts for GordDuk1_42:
(53, 41470), (75, 41434), (82, 41422), (96, 41386), (217, 40948), (225, 40918), (227, 40894), (234, 40849), (246, 40813), (248, 40807), (249, 40804), (260, 40672),

Gene: GordTnk2_42 Start: 41436, Stop: 40609, Start Num: 53
Candidate Starts for GordTnk2_42:
(53, 41436), (75, 41400), (96, 41352), (149, 41055), (217, 40914), (225, 40884), (227, 40860), (234, 40815), (246, 40779), (248, 40773), (249, 40770), (260, 40638),

Gene: Gratitude_50 Start: 33361, Stop: 32633, Start Num: 45
Candidate Starts for Gratitude_50:
(Start: 45 @33361 has 359 MA's), (119, 33124), (125, 33076), (130, 33034), (131, 33031), (213, 32863), (219, 32815), (223, 32800), (225, 32794),

Gene: GreedyLawyer_51 Start: 32085, Stop: 31348, Start Num: 45
Candidate Starts for GreedyLawyer_51:
(Start: 45 @32085 has 359 MA's), (74, 32040), (119, 31848), (132, 31740), (147, 31698), (198, 31611), (219, 31536), (223, 31521), (225, 31515), (241, 31422),

Gene: Grif_52 Start: 33281, Stop: 32574, Start Num: 45
Candidate Starts for Grif_52:
(Start: 45 @33281 has 359 MA's), (118, 33089), (130, 32984), (137, 32951), (219, 32756), (223, 32741),

Gene: Groupthink_53 Start: 33097, Stop: 32399, Start Num: 45
Candidate Starts for Groupthink_53:
(Start: 32 @33157 has 1 MA's), (Start: 45 @33097 has 359 MA's), (118, 32905), (130, 32800), (131, 32797), (149, 32746), (213, 32629), (219, 32581), (223, 32566),

Gene: Grub_52 Start: 33198, Stop: 32491, Start Num: 45
Candidate Starts for Grub_52:
(Start: 45 @33198 has 359 MA's), (118, 33006), (130, 32901), (137, 32868), (219, 32673), (223, 32658),

Gene: Grum1_52 Start: 33206, Stop: 32499, Start Num: 45
Candidate Starts for Grum1_52:
(Start: 45 @33206 has 359 MA's), (118, 33014), (130, 32909), (137, 32876), (219, 32681), (223, 32666),

Gene: Gruunaga_51 Start: 32073, Stop: 31345, Start Num: 45
Candidate Starts for Gruunaga_51:
(Start: 45 @32073 has 359 MA's), (74, 32028), (119, 31836), (125, 31788), (130, 31746), (131, 31743), (155, 31677), (180, 31641), (210, 31590), (213, 31581), (219, 31533), (223, 31518), (241, 31419),

Gene: GtownJaz_52 Start: 33208, Stop: 32501, Start Num: 45
Candidate Starts for GtownJaz_52:
(Start: 45 @33208 has 359 MA's), (118, 33016), (130, 32911), (137, 32878), (219, 32683), (223, 32668),

Gene: Gwennie_52 Start: 33210, Stop: 32503, Start Num: 45
Candidate Starts for Gwennie_52:
(Start: 45 @33210 has 359 MA's), (118, 33018), (130, 32913), (137, 32880), (219, 32685), (223, 32670),

Gene: HamSlice_47 Start: 32779, Stop: 32060, Start Num: 50
Candidate Starts for HamSlice_47:
(Start: 50 @32779 has 204 MA's), (119, 32551), (125, 32503), (137, 32428), (145, 32407), (147, 32404), (206, 32308), (216, 32254), (219, 32242), (223, 32227), (225, 32221),

Gene: Hammer_52 Start: 31676, Stop: 30948, Start Num: 45
Candidate Starts for Hammer_52:
(Start: 45 @31676 has 359 MA's), (74, 31631), (119, 31439), (125, 31391), (130, 31349), (131, 31346), (155, 31280), (180, 31244), (210, 31193), (213, 31184), (219, 31136), (223, 31121), (241, 31022),

Gene: Hanray_49 Start: 33029, Stop: 32325, Start Num: 45
Candidate Starts for Hanray_49:
(Start: 45 @33029 has 359 MA's), (74, 32984), (75, 32981), (Start: 77 @32978 has 1 MA's), (118, 32837), (119, 32822), (125, 32774), (130, 32732), (219, 32513), (223, 32498),

Gene: Happiness_47 Start: 32786, Stop: 32067, Start Num: 50
Candidate Starts for Happiness_47:
(Start: 50 @32786 has 204 MA's), (74, 32741), (119, 32558), (125, 32510), (137, 32435), (145, 32414), (147, 32411), (206, 32315), (216, 32261), (219, 32249), (223, 32234), (225, 32228),

Gene: Harlequin_38 Start: 29175, Stop: 28414, Start Num: 48
Candidate Starts for Harlequin_38:
(Start: 27 @29247 has 8 MA's), (Start: 48 @29175 has 36 MA's), (119, 28923), (125, 28875), (132, 28815), (139, 28794), (159, 28743), (191, 28683), (204, 28668), (223, 28581), (226, 28563), (237, 28497), (240, 28485),

Gene: HarryHoudini_50 Start: 33544, Stop: 32816, Start Num: 45
Candidate Starts for HarryHoudini_50:
(Start: 45 @33544 has 359 MA's), (119, 33307), (125, 33259), (130, 33217), (131, 33214), (213, 33046), (219, 32998), (223, 32983), (225, 32977),

Gene: HashRod_53 Start: 33237, Stop: 32530, Start Num: 45
Candidate Starts for HashRod_53:
(Start: 45 @33237 has 359 MA's), (118, 33045), (219, 32712), (223, 32697),

Gene: HaveUMetTed_53 Start: 33079, Stop: 32381, Start Num: 45
Candidate Starts for HaveUMetTed_53:

(Start: 32 @33139 has 1 MA's), (Start: 45 @33079 has 359 MA's), (118, 32887), (130, 32782), (131, 32779), (149, 32728), (213, 32611), (219, 32563), (223, 32548),

Gene: Heathen_49 Start: 32705, Stop: 31977, Start Num: 45
Candidate Starts for Heathen_49:
(Start: 45 @32705 has 359 MA's), (70, 32669), (111, 32525), (118, 32483), (130, 32378), (131, 32375), (174, 32276), (219, 32159), (223, 32144), (225, 32138),

Gene: Heffalump_48 Start: 33827, Stop: 33102, Start Num: 45
Candidate Starts for Heffalump_48:
(Start: 45 @33827 has 359 MA's), (119, 33593), (130, 33503), (131, 33500), (145, 33449), (152, 33434), (203, 33356), (219, 33284), (223, 33269), (225, 33263),

Gene: HelDan_49 Start: 32957, Stop: 32229, Start Num: 45
Candidate Starts for HelDan_49:
(Start: 45 @32957 has 359 MA's), (70, 32921), (111, 32777), (118, 32735), (130, 32630), (131, 32627), (174, 32528), (219, 32411), (223, 32396), (225, 32390),

Gene: Heliosoles_51 Start: 33100, Stop: 32402, Start Num: 45
Candidate Starts for Heliosoles_51:
(Start: 32 @33160 has 1 MA's), (Start: 45 @33100 has 359 MA's), (118, 32908), (130, 32803), (131, 32800), (149, 32749), (213, 32632), (219, 32584), (223, 32569),

Gene: Helmet_53 Start: 32237, Stop: 31509, Start Num: 45
Candidate Starts for Helmet_53:
(Start: 45 @32237 has 359 MA's), (74, 32192), (119, 32000), (125, 31952), (130, 31910), (131, 31907), (155, 31841), (180, 31805), (210, 31754), (213, 31745), (219, 31697), (223, 31682), (241, 31583),

Gene: Herbertwm_49 Start: 32914, Stop: 32186, Start Num: 45
Candidate Starts for Herbertwm_49:
(Start: 45 @32914 has 359 MA's), (119, 32677), (130, 32587), (145, 32533), (203, 32440), (219, 32368), (223, 32353), (225, 32347), (240, 32257),

Gene: Hercules11_52 Start: 33215, Stop: 32508, Start Num: 45
Candidate Starts for Hercules11_52:
(Start: 45 @33215 has 359 MA's), (118, 33023), (130, 32918), (137, 32885), (219, 32690), (223, 32675),

Gene: Hexamo_51 Start: 31858, Stop: 31130, Start Num: 45
Candidate Starts for Hexamo_51:
(Start: 45 @31858 has 359 MA's), (74, 31813), (92, 31777), (119, 31621), (125, 31573), (130, 31531), (131, 31528), (155, 31462), (180, 31426), (210, 31375), (213, 31366), (219, 31318), (223, 31303), (241, 31204),

Gene: HippoHollow_49 Start: 34583, Stop: 33855, Start Num: 45
Candidate Starts for HippoHollow_49:
(Start: 45 @34583 has 359 MA's), (74, 34538), (119, 34346), (130, 34256), (131, 34253), (185, 34133), (219, 34037), (223, 34022), (225, 34016),

Gene: Hiro_38 Start: 29430, Stop: 28669, Start Num: 48
Candidate Starts for Hiro_38:
(Start: 27 @29502 has 8 MA's), (Start: 48 @29430 has 36 MA's), (119, 29178), (125, 29130), (132, 29070), (139, 29049), (159, 28998), (191, 28938), (204, 28923), (223, 28836), (226, 28818), (237,

28752), (240, 28740),

Gene: Holex_49 Start: 33048, Stop: 32344, Start Num: 45
Candidate Starts for Holex_49:
(Start: 45 @33048 has 359 MA's), (74, 33003), (75, 33000), (Start: 77 @32997 has 1 MA's), (118, 32856), (119, 32841), (125, 32793), (130, 32751), (219, 32532), (223, 32517),

Gene: Holli_47 Start: 32571, Stop: 31852, Start Num: 50
Candidate Starts for Holli_47:
(Start: 50 @32571 has 204 MA's), (119, 32343), (125, 32295), (137, 32220), (145, 32199), (147, 32196), (206, 32100), (216, 32046), (219, 32034), (223, 32019), (225, 32013),

Gene: Hookmount_48 Start: 33015, Stop: 32287, Start Num: 45
Candidate Starts for Hookmount_48:
(Start: 33 @33069 has 7 MA's), (Start: 45 @33015 has 359 MA's), (70, 32979), (118, 32793), (130, 32688), (174, 32586), (219, 32469), (223, 32454), (240, 32358),

Gene: HortumSL17_49 Start: 33024, Stop: 32320, Start Num: 45
Candidate Starts for HortumSL17_49:
(Start: 45 @33024 has 359 MA's), (74, 32979), (75, 32976), (Start: 77 @32973 has 1 MA's), (118, 32832), (119, 32817), (125, 32769), (130, 32727), (219, 32508), (223, 32493),

Gene: Houdini22_48 Start: 32785, Stop: 32066, Start Num: 50
Candidate Starts for Houdini22_48:
(Start: 50 @32785 has 204 MA's), (119, 32557), (125, 32509), (137, 32434), (145, 32413), (147, 32410), (206, 32314), (216, 32260), (219, 32248), (223, 32233), (225, 32227),

Gene: HuhtaEnerson15_42 Start: 31952, Stop: 31239, Start Num: 50
Candidate Starts for HuhtaEnerson15_42:
(Start: 50 @31952 has 204 MA's), (74, 31904), (90, 31874), (125, 31673), (130, 31631), (131, 31628), (155, 31562), (176, 31526), (209, 31475), (212, 31466), (219, 31418), (223, 31403), (228, 31367), (240, 31307),

Gene: Hutc2_49 Start: 32187, Stop: 31474, Start Num: 45
Candidate Starts for Hutc2_49:
(Start: 45 @32187 has 359 MA's), (Start: 77 @32136 has 1 MA's), (125, 31914), (130, 31872), (195, 31731), (213, 31701), (216, 31665), (219, 31653), (223, 31638), (225, 31632), (240, 31542),

Gene: Huxley_47 Start: 32842, Stop: 32123, Start Num: 50
Candidate Starts for Huxley_47:
(Start: 50 @32842 has 204 MA's), (119, 32614), (125, 32566), (137, 32491), (145, 32470), (147, 32467), (206, 32371), (216, 32317), (219, 32305), (223, 32290), (225, 32284),

Gene: ICleared_48 Start: 32810, Stop: 32091, Start Num: 50
Candidate Starts for ICleared_48:
(Start: 50 @32810 has 204 MA's), (119, 32582), (125, 32534), (137, 32459), (145, 32438), (147, 32435), (206, 32339), (216, 32285), (219, 32273), (223, 32258), (225, 32252),

Gene: Ibantik_22 Start: 10154, Stop: 9441, Start Num: 50
Candidate Starts for Ibantik_22:
(Start: 50 @10154 has 204 MA's), (74, 10103), (85, 10079), (121, 9902), (130, 9827), (131, 9824), (132, 9809), (203, 9698), (208, 9686), (222, 9614), (223, 9608), (224, 9605),

Gene: Iceman_48 Start: 33067, Stop: 32348, Start Num: 50
Candidate Starts for Iceman_48:
(Start: 50 @33067 has 204 MA's), (119, 32839), (125, 32791), (145, 32695), (147, 32692), (206, 32596), (216, 32542), (219, 32530), (223, 32515), (225, 32509),

Gene: Idleandcovert_50 Start: 33076, Stop: 32348, Start Num: 45
Candidate Starts for Idleandcovert_50:
(28, 33145), (Start: 45 @33076 has 359 MA's), (111, 32896), (118, 32854), (130, 32749), (131, 32746), (174, 32647), (203, 32602), (219, 32530), (223, 32515),

Gene: Imbriano_52 Start: 32100, Stop: 31366, Start Num: 45
Candidate Starts for Imbriano_52:
(Start: 45 @32100 has 359 MA's), (74, 32055), (92, 32019), (119, 31863), (130, 31773), (131, 31770), (145, 31719), (198, 31629), (203, 31626), (213, 31602), (219, 31554), (223, 31539), (225, 31533), (241, 31440),

Gene: Indra_54 Start: 32238, Stop: 31510, Start Num: 45
Candidate Starts for Indra_54:
(Start: 45 @32238 has 359 MA's), (74, 32193), (119, 32001), (125, 31953), (130, 31911), (131, 31908), (155, 31842), (180, 31806), (210, 31755), (213, 31746), (219, 31698), (223, 31683), (241, 31584),

Gene: Insomnia_50 Start: 32692, Stop: 31979, Start Num: 45
Candidate Starts for Insomnia_50:
(Start: 45 @32692 has 359 MA's), (Start: 77 @32641 has 1 MA's), (125, 32419), (130, 32377), (195, 32236), (213, 32206), (216, 32170), (219, 32158), (223, 32143), (225, 32137), (240, 32047),

Gene: Iracema64_49 Start: 33045, Stop: 32326, Start Num: 50
Candidate Starts for Iracema64_49:
(Start: 50 @33045 has 204 MA's), (119, 32817), (125, 32769), (137, 32694), (145, 32673), (147, 32670), (206, 32574), (216, 32520), (219, 32508), (223, 32493), (225, 32487),

Gene: IronMan_49 Start: 34206, Stop: 33481, Start Num: 45
Candidate Starts for IronMan_49:
(Start: 45 @34206 has 359 MA's), (74, 34161), (119, 33972), (125, 33924), (130, 33882), (131, 33879), (135, 33855), (170, 33783), (175, 33777), (198, 33738), (203, 33735), (213, 33711), (219, 33663), (223, 33648), (225, 33642), (240, 33552),

Gene: Isca_48 Start: 32511, Stop: 31777, Start Num: 45
Candidate Starts for Isca_48:
(Start: 45 @32511 has 359 MA's), (118, 32283), (130, 32178), (131, 32175), (147, 32121), (174, 32076), (203, 32031), (219, 31959), (223, 31944), (240, 31848),

Gene: Isiphiwo_49 Start: 31619, Stop: 30885, Start Num: 45
Candidate Starts for Isiphiwo_49:
(Start: 45 @31619 has 359 MA's), (74, 31574), (92, 31538), (119, 31382), (130, 31292), (131, 31289), (145, 31238), (198, 31148), (203, 31145), (213, 31121), (219, 31073), (223, 31058), (225, 31052), (241, 30959),

Gene: Iwokeuplikedis_52 Start: 33124, Stop: 32420, Start Num: 45
Candidate Starts for Iwokeuplikedis_52:
(Start: 45 @33124 has 359 MA's), (119, 32917), (125, 32869), (127, 32857), (130, 32827), (131, 32824), (135, 32800), (137, 32794), (203, 32680), (219, 32608), (223, 32593), (225, 32587), (240, 32497),

Gene: JHC117_52 Start: 33205, Stop: 32498, Start Num: 45
Candidate Starts for JHC117_52:
(Start: 45 @33205 has 359 MA's), (118, 33013), (130, 32908), (137, 32875), (219, 32680), (223, 32665),

Gene: JSwag_51 Start: 31511, Stop: 30810, Start Num: 49
Candidate Starts for JSwag_51:
(Start: 49 @31511 has 24 MA's), (81, 31454), (119, 31295), (130, 31205), (131, 31202), (136, 31175), (167, 31118), (219, 30992), (223, 30977),

Gene: Jaan_49 Start: 34372, Stop: 33647, Start Num: 45
Candidate Starts for Jaan_49:
(Start: 45 @34372 has 359 MA's), (74, 34327), (119, 34138), (125, 34090), (130, 34048), (131, 34045), (150, 33982), (174, 33946), (175, 33943), (213, 33877), (216, 33841), (219, 33829), (223, 33814),

Gene: Jabiru_42 Start: 31562, Stop: 30858, Start Num: 50
Candidate Starts for Jabiru_42:
(Start: 50 @31562 has 204 MA's), (127, 31286), (130, 31256), (131, 31253), (141, 31211), (183, 31139), (219, 31037), (223, 31022), (228, 30986), (240, 30926),

Gene: Jabith_50 Start: 32693, Stop: 31980, Start Num: 45
Candidate Starts for Jabith_50:
(Start: 45 @32693 has 359 MA's), (Start: 77 @32642 has 1 MA's), (125, 32420), (130, 32378), (195, 32237), (213, 32207), (216, 32171), (219, 32159), (223, 32144), (225, 32138), (240, 32048),

Gene: Jaykayelowell_46 Start: 32774, Stop: 32055, Start Num: 50
Candidate Starts for Jaykayelowell_46:
(Start: 50 @32774 has 204 MA's), (119, 32546), (125, 32498), (137, 32423), (145, 32402), (147, 32399), (206, 32303), (216, 32249), (219, 32237), (223, 32222), (225, 32216),

Gene: JeanGrey_19 Start: 9759, Stop: 10466, Start Num: 57
Candidate Starts for JeanGrey_19:
(Start: 57 @9759 has 10 MA's), (90, 9822), (95, 9834), (129, 10065), (140, 10119), (208, 10236), (213, 10248), (219, 10296), (227, 10341), (238, 10398), (252, 10449),

Gene: Jeffabunny_51 Start: 31894, Stop: 31166, Start Num: 45
Candidate Starts for Jeffabunny_51:
(Start: 45 @31894 has 359 MA's), (74, 31849), (119, 31657), (125, 31609), (130, 31567), (131, 31564), (155, 31498), (180, 31462), (210, 31411), (213, 31402), (219, 31354), (223, 31339), (241, 31240),

Gene: JenCasNa_53 Start: 33206, Stop: 32499, Start Num: 45
Candidate Starts for JenCasNa_53:
(Start: 45 @33206 has 359 MA's), (118, 33014), (130, 32909), (137, 32876), (219, 32681), (223, 32666),

Gene: JeppNRM_53 Start: 33098, Stop: 32400, Start Num: 45
Candidate Starts for JeppNRM_53:
(Start: 32 @33158 has 1 MA's), (Start: 45 @33098 has 359 MA's), (118, 32906), (130, 32801), (131, 32798), (149, 32747), (213, 32630), (219, 32582), (223, 32567),

Gene: Jerm_51 Start: 33607, Stop: 32882, Start Num: 45
Candidate Starts for Jerm_51:

(Start: 45 @33607 has 359 MA's), (119, 33373), (130, 33283), (131, 33280), (175, 33178), (213, 33112), (219, 33064), (223, 33049), (225, 33043),

Gene: Jester_38 Start: 29106, Stop: 28345, Start Num: 48
Candidate Starts for Jester_38:
(Start: 27 @29178 has 8 MA's), (Start: 48 @29106 has 36 MA's), (119, 28854), (125, 28806), (132, 28746), (139, 28725), (159, 28674), (191, 28614), (204, 28599), (223, 28512), (226, 28494), (237, 28428), (240, 28416),

Gene: JetBlade_48 Start: 32775, Stop: 32056, Start Num: 50
Candidate Starts for JetBlade_48:
(Start: 50 @32775 has 204 MA's), (119, 32547), (125, 32499), (137, 32424), (145, 32403), (147, 32400), (206, 32304), (216, 32250), (219, 32238), (223, 32223), (225, 32217),

Gene: JewelBug_52 Start: 32255, Stop: 31518, Start Num: 45
Candidate Starts for JewelBug_52:
(Start: 45 @32255 has 359 MA's), (74, 32210), (119, 32018), (132, 31910), (147, 31868), (198, 31781), (219, 31706), (223, 31691), (225, 31685), (241, 31592),

Gene: Jiawan_49 Start: 33061, Stop: 32357, Start Num: 45
Candidate Starts for Jiawan_49:
(Start: 45 @33061 has 359 MA's), (74, 33016), (75, 33013), (Start: 77 @33010 has 1 MA's), (118, 32869), (119, 32854), (125, 32806), (130, 32764), (219, 32545), (223, 32530),

Gene: Jobu08_51 Start: 33038, Stop: 32331, Start Num: 45
Candidate Starts for Jobu08_51:
(Start: 45 @33038 has 359 MA's), (118, 32846), (130, 32741), (219, 32513), (223, 32498),

Gene: JonJames_113 Start: 65373, Stop: 66119, Start Num: 55
Candidate Starts for JonJames_113:
(Start: 55 @65373 has 5 MA's), (59, 65379), (Start: 68 @65391 has 6 MA's), (72, 65400), (74, 65406), (89, 65439), (104, 65490), (109, 65523), (128, 65679), (132, 65724), (141, 65739), (163, 65778), (170, 65790), (208, 65850), (213, 65862), (225, 65931), (226, 65943), (227, 65955), (250, 66054), (256, 66105),

Gene: JoongJeon_47 Start: 32778, Stop: 32059, Start Num: 50
Candidate Starts for JoongJeon_47:
(Start: 50 @32778 has 204 MA's), (119, 32550), (125, 32502), (137, 32427), (145, 32406), (147, 32403), (206, 32307), (216, 32253), (219, 32241), (223, 32226), (225, 32220),

Gene: Jordennis_51 Start: 31769, Stop: 31035, Start Num: 45
Candidate Starts for Jordennis_51:
(Start: 45 @31769 has 359 MA's), (74, 31724), (92, 31688), (119, 31532), (130, 31442), (131, 31439), (145, 31388), (198, 31298), (203, 31295), (213, 31271), (219, 31223), (223, 31208), (225, 31202), (241, 31109),

Gene: Joselito_50 Start: 32638, Stop: 31919, Start Num: 45
Candidate Starts for Joselito_50:
(Start: 45 @32638 has 359 MA's), (74, 32593), (119, 32401), (125, 32353), (130, 32311), (131, 32308), (155, 32242), (180, 32206), (210, 32155), (213, 32146), (219, 32098), (223, 32083), (240, 31987),

Gene: JoshKayV_51 Start: 33688, Stop: 32963, Start Num: 45
Candidate Starts for JoshKayV_51:

(Start: 45 @33688 has 359 MA's), (119, 33454), (130, 33364), (131, 33361), (145, 33310), (213, 33193), (219, 33145), (223, 33130), (225, 33124), (240, 33034),

Gene: Journey13_43 Start: 31444, Stop: 30737, Start Num: 45
Candidate Starts for Journey13_43:
(Start: 45 @31444 has 359 MA's), (125, 31186), (126, 31183), (127, 31174), (130, 31144), (131, 31141), (134, 31120), (187, 31018), (219, 30925), (223, 30910), (240, 30814),

Gene: Jovo_41 Start: 31999, Stop: 31280, Start Num: 50
Candidate Starts for Jovo_41:
(Start: 50 @31999 has 204 MA's), (Start: 77 @31945 has 1 MA's), (90, 31921), (103, 31897), (120, 31765), (147, 31621), (208, 31522), (219, 31459), (223, 31444), (228, 31408), (239, 31351),

Gene: Jsquared_47 Start: 31938, Stop: 31240, Start Num: 45
Candidate Starts for Jsquared_47:
(Start: 45 @31938 has 359 MA's), (86, 31872), (119, 31707), (125, 31659), (132, 31599), (147, 31560), (208, 31485), (219, 31422), (223, 31407),

Gene: Junimo_47 Start: 32781, Stop: 32062, Start Num: 50
Candidate Starts for Junimo_47:
(Start: 50 @32781 has 204 MA's), (119, 32553), (125, 32505), (137, 32430), (145, 32409), (147, 32406), (206, 32310), (216, 32256), (219, 32244), (223, 32229), (225, 32223),

Gene: JustBecause_6 Start: 3465, Stop: 2683, Start Num: 56
Candidate Starts for JustBecause_6:
(Start: 33 @3534 has 7 MA's), (Start: 56 @3465 has 8 MA's), (63, 3456), (70, 3444), (73, 3435), (112, 3270), (115, 3237), (128, 3138), (132, 3090), (163, 3030), (170, 3018), (180, 3000), (193, 2979), (215, 2910), (221, 2886), (223, 2874), (244, 2766), (257, 2688),

Gene: KADY_52 Start: 33237, Stop: 32530, Start Num: 45
Candidate Starts for KADY_52:
(Start: 45 @33237 has 359 MA's), (118, 33045), (219, 32712), (223, 32697),

Gene: KFPoly_47 Start: 32775, Stop: 32056, Start Num: 50
Candidate Starts for KFPoly_47:
(Start: 50 @32775 has 204 MA's), (119, 32547), (125, 32499), (137, 32424), (145, 32403), (147, 32400), (206, 32304), (216, 32250), (219, 32238), (223, 32223), (225, 32217),

Gene: Kachowdy_49 Start: 32957, Stop: 32229, Start Num: 45
Candidate Starts for Kachowdy_49:
(Start: 45 @32957 has 359 MA's), (70, 32921), (111, 32777), (118, 32735), (130, 32630), (131, 32627), (174, 32528), (219, 32411), (223, 32396), (225, 32390),

Gene: Kalb97_53 Start: 33096, Stop: 32398, Start Num: 45
Candidate Starts for Kalb97_53:
(Start: 32 @33156 has 1 MA's), (Start: 45 @33096 has 359 MA's), (118, 32904), (130, 32799), (131, 32796), (149, 32745), (213, 32628), (219, 32580), (223, 32565),

Gene: Kalnoky_53 Start: 33094, Stop: 32396, Start Num: 45
Candidate Starts for Kalnoky_53:
(Start: 32 @33154 has 1 MA's), (Start: 45 @33094 has 359 MA's), (118, 32902), (130, 32797), (131, 32794), (149, 32743), (213, 32626), (219, 32578), (223, 32563),

Gene: Kalpine_47 Start: 33330, Stop: 32599, Start Num: 45
Candidate Starts for Kalpine_47:
(Start: 45 @33330 has 359 MA's), (74, 33285), (119, 33096), (125, 33048), (130, 33006), (131, 33003), (145, 32952), (213, 32835), (219, 32787), (223, 32772), (228, 32736), (240, 32676),

Gene: Kampy_48 Start: 32783, Stop: 32064, Start Num: 50
Candidate Starts for Kampy_48:
(Start: 50 @32783 has 204 MA's), (119, 32555), (125, 32507), (137, 32432), (145, 32411), (147, 32408), (206, 32312), (216, 32258), (219, 32246), (223, 32231), (225, 32225),

Gene: Katalie136_47 Start: 32757, Stop: 32038, Start Num: 50
Candidate Starts for Katalie136_47:
(Start: 50 @32757 has 204 MA's), (119, 32529), (125, 32481), (131, 32436), (145, 32385), (147, 32382), (148, 32379), (206, 32286), (213, 32268), (219, 32220), (223, 32205),

Gene: KatherineG_53 Start: 32002, Stop: 31304, Start Num: 49
Candidate Starts for KatherineG_53:
(Start: 49 @32002 has 24 MA's), (81, 31945), (119, 31786), (130, 31696), (131, 31693), (165, 31615), (219, 31486), (223, 31471),

Gene: Kazan_52 Start: 32091, Stop: 31354, Start Num: 45
Candidate Starts for Kazan_52:
(Start: 45 @32091 has 359 MA's), (74, 32046), (119, 31854), (132, 31746), (147, 31704), (198, 31617), (219, 31542), (223, 31527), (225, 31521), (241, 31428),

Gene: KekoraPapaka_48 Start: 32781, Stop: 32062, Start Num: 50
Candidate Starts for KekoraPapaka_48:
(Start: 50 @32781 has 204 MA's), (119, 32553), (125, 32505), (137, 32430), (145, 32409), (147, 32406), (206, 32310), (216, 32256), (219, 32244), (223, 32229), (225, 32223),

Gene: Kela_6 Start: 3456, Stop: 2674, Start Num: 56
Candidate Starts for Kela_6:
(Start: 33 @3525 has 7 MA's), (Start: 56 @3456 has 8 MA's), (63, 3447), (70, 3435), (73, 3426), (112, 3261), (115, 3228), (124, 3156), (128, 3129), (132, 3081), (163, 3021), (170, 3009), (180, 2991), (193, 2970), (215, 2901), (221, 2877), (223, 2865), (244, 2757), (257, 2679),

Gene: Kerberos_51 Start: 32822, Stop: 32115, Start Num: 45
Candidate Starts for Kerberos_51:
(Start: 45 @32822 has 359 MA's), (118, 32627), (119, 32612), (130, 32522), (131, 32519), (141, 32477), (219, 32303), (223, 32288), (240, 32192),

Gene: Keziacharles14_49 Start: 34058, Stop: 33357, Start Num: 45
Candidate Starts for Keziacharles14_49:
(Start: 45 @34058 has 359 MA's), (118, 33863), (119, 33848), (130, 33758), (135, 33731), (150, 33692), (162, 33671), (164, 33668), (198, 33614), (219, 33539), (223, 33524), (225, 33518), (232, 33467),

Gene: Kimba_49 Start: 32213, Stop: 31500, Start Num: 45
Candidate Starts for Kimba_49:
(Start: 45 @32213 has 359 MA's), (Start: 77 @32162 has 1 MA's), (125, 31940), (130, 31898), (195, 31757), (213, 31727), (216, 31691), (219, 31679), (223, 31664), (225, 31658), (240, 31568),

Gene: Kimchi1738_9 Start: 4740, Stop: 5513, Start Num: 48

Candidate Starts for Kimchi1738_9:
(Start: 48 @4740 has 36 MA's), (51, 4752), (69, 4776), (76, 4794), (122, 5016), (132, 5100), (133, 5103), (179, 5184), (196, 5214), (217, 5280), (222, 5298), (223, 5304), (226, 5322), (227, 5334),

Gene: Kimona_48 Start: 31365, Stop: 30673, Start Num: 45
Candidate Starts for Kimona_48:
(Start: 45 @31365 has 359 MA's), (119, 31161), (130, 31071), (131, 31068), (223, 30837), (240, 30741),

Gene: KingCyrus_51 Start: 34805, Stop: 34080, Start Num: 45
Candidate Starts for KingCyrus_51:
(Start: 45 @34805 has 359 MA's), (130, 34481), (131, 34478), (170, 34382), (175, 34376), (213, 34310), (219, 34262), (223, 34247), (225, 34241),

Gene: Kingmustik0402_48 Start: 32770, Stop: 32051, Start Num: 50
Candidate Starts for Kingmustik0402_48:
(4, 33106), (6, 33094), (8, 33025), (11, 33013), (12, 33010), (13, 33001), (14, 32980), (Start: 50 @32770 has 204 MA's), (119, 32542), (125, 32494), (137, 32419), (145, 32398), (147, 32395), (206, 32299), (216, 32245), (219, 32233), (223, 32218), (225, 32212),

Gene: Kipper29_51 Start: 32104, Stop: 31367, Start Num: 45
Candidate Starts for Kipper29_51:
(Start: 45 @32104 has 359 MA's), (74, 32059), (119, 31867), (132, 31759), (147, 31717), (198, 31630), (219, 31555), (223, 31540), (225, 31534), (241, 31441),

Gene: KittenMittens_44 Start: 31690, Stop: 30962, Start Num: 44
Candidate Starts for KittenMittens_44:
(Start: 44 @31690 has 13 MA's), (Start: 50 @31684 has 204 MA's), (119, 31453), (125, 31405), (130, 31363), (131, 31360), (139, 31324), (150, 31297), (219, 31144), (223, 31129), (240, 31033),

Gene: Klodlith_49 Start: 32723, Stop: 32016, Start Num: 45
Candidate Starts for Klodlith_49:
(Start: 45 @32723 has 359 MA's), (118, 32528), (119, 32513), (120, 32510), (125, 32465), (135, 32396), (198, 32279), (206, 32270), (219, 32204), (223, 32189),

Gene: Koan_46 Start: 32781, Stop: 32062, Start Num: 50
Candidate Starts for Koan_46:
(Start: 50 @32781 has 204 MA's), (119, 32553), (125, 32505), (137, 32430), (145, 32409), (147, 32406), (206, 32310), (216, 32256), (219, 32244), (223, 32229), (225, 32223),

Gene: Koduck_50 Start: 32263, Stop: 31532, Start Num: 45
Candidate Starts for Koduck_50:
(Start: 45 @32263 has 359 MA's), (74, 32218), (119, 32023), (125, 31975), (129, 31945), (130, 31933), (131, 31930), (132, 31915), (174, 31831), (213, 31762), (219, 31714), (223, 31699), (240, 31603),

Gene: Koko_52 Start: 32224, Stop: 31487, Start Num: 45
Candidate Starts for Koko_52:
(Start: 45 @32224 has 359 MA's), (74, 32179), (119, 31987), (125, 31939), (131, 31894), (150, 31828), (219, 31675), (223, 31660), (241, 31561),

Gene: Koreni_47 Start: 32462, Stop: 31743, Start Num: 50
Candidate Starts for Koreni_47:

(Start: 50 @32462 has 204 MA's), (119, 32234), (125, 32186), (137, 32111), (145, 32090), (147, 32087), (206, 31991), (216, 31937), (219, 31925), (223, 31910), (225, 31904),

Gene: Kradal_6 Start: 3780, Stop: 2992, Start Num: 56
Candidate Starts for Kradal_6:
(35, 3849), (Start: 56 @3780 has 8 MA's), (63, 3771), (70, 3759), (119, 3513), (124, 3474), (132, 3399), (180, 3309), (193, 3288), (215, 3219), (221, 3195), (223, 3183), (237, 3099), (244, 3075), (257, 2997),

Gene: Kratark_48 Start: 32944, Stop: 32225, Start Num: 50
Candidate Starts for Kratark_48:
(Start: 50 @32944 has 204 MA's), (74, 32899), (119, 32716), (145, 32572), (147, 32569), (206, 32473), (219, 32407), (223, 32392),

Gene: Kremtemulon_48 Start: 32732, Stop: 32013, Start Num: 50
Candidate Starts for Kremtemulon_48:
(Start: 50 @32732 has 204 MA's), (119, 32504), (125, 32456), (137, 32381), (145, 32360), (147, 32357), (206, 32261), (216, 32207), (219, 32195), (223, 32180), (225, 32174),

Gene: Krishelle_38 Start: 29533, Stop: 28772, Start Num: 48
Candidate Starts for Krishelle_38:
(Start: 48 @29533 has 36 MA's), (119, 29281), (125, 29233), (132, 29173), (139, 29152), (159, 29101), (191, 29041), (204, 29026), (223, 28939), (226, 28921),

Gene: Kristoff_47 Start: 32787, Stop: 32050, Start Num: 44
Candidate Starts for Kristoff_47:
(Start: 44 @32787 has 13 MA's), (Start: 50 @32781 has 204 MA's), (119, 32541), (125, 32493), (130, 32451), (131, 32448), (158, 32379), (175, 32346), (206, 32298), (219, 32232), (223, 32217), (225, 32211), (228, 32181), (240, 32121),

Gene: Kudefre_109 Start: 60671, Stop: 61387, Start Num: 57
Candidate Starts for Kudefre_109:
(Start: 57 @60671 has 10 MA's), (91, 60734), (107, 60779), (108, 60782), (119, 60890), (124, 60929), (128, 60956), (129, 60971), (142, 61031), (202, 61112), (216, 61169), (227, 61226), (229, 61235), (234, 61271), (247, 61310), (250, 61325), (254, 61343),

Gene: Kumao_7 Start: 2568, Stop: 1870, Start Num: 45
Candidate Starts for Kumao_7:
(Start: 45 @2568 has 359 MA's), (115, 2391), (131, 2265), (132, 2250), (150, 2202), (164, 2178), (213, 2097), (219, 2049), (223, 2034), (228, 1998),

Gene: Kyee_48 Start: 32779, Stop: 32060, Start Num: 50
Candidate Starts for Kyee_48:
(Start: 50 @32779 has 204 MA's), (119, 32551), (125, 32503), (137, 32428), (145, 32407), (147, 32404), (206, 32308), (216, 32254), (219, 32242), (223, 32227), (225, 32221),

Gene: L5_48 Start: 32338, Stop: 31607, Start Num: 45
Candidate Starts for L5_48:
(Start: 45 @32338 has 359 MA's), (74, 32293), (119, 32098), (125, 32050), (129, 32020), (130, 32008), (131, 32005), (132, 31990), (174, 31906), (213, 31837), (219, 31789), (223, 31774), (240, 31678),

Gene: LBerry_53 Start: 33210, Stop: 32503, Start Num: 45
Candidate Starts for LBerry_53:

(Start: 45 @33210 has 359 MA's), (118, 33018), (130, 32913), (137, 32880), (219, 32685), (223, 32670),

Gene: LHTSCC_50 Start: 33203, Stop: 32484, Start Num: 50
Candidate Starts for LHTSCC_50:
(Start: 50 @33203 has 204 MA's), (74, 33158), (119, 32975), (125, 32927), (145, 32831), (147, 32828), (216, 32678), (219, 32666), (223, 32651), (225, 32645),

Gene: LadyBird_54 Start: 33923, Stop: 33195, Start Num: 45
Candidate Starts for LadyBird_54:
(Start: 45 @33923 has 359 MA's), (119, 33686), (130, 33596), (131, 33593), (213, 33425), (219, 33377), (223, 33362), (225, 33356), (240, 33266),

Gene: Lambert1_48 Start: 33068, Stop: 32286, Start Num: 33
Candidate Starts for Lambert1_48:
(Start: 33 @33068 has 7 MA's), (Start: 45 @33014 has 359 MA's), (70, 32978), (118, 32792), (130, 32687), (174, 32585), (219, 32468), (223, 32453), (240, 32357),

Gene: Landor_49 Start: 34284, Stop: 33559, Start Num: 45
Candidate Starts for Landor_49:
(Start: 45 @34284 has 359 MA's), (74, 34239), (119, 34050), (125, 34002), (130, 33960), (131, 33957), (213, 33789), (216, 33753), (219, 33741), (223, 33726),

Gene: LappelDuVide_48 Start: 32780, Stop: 32061, Start Num: 50
Candidate Starts for LappelDuVide_48:
(Start: 50 @32780 has 204 MA's), (119, 32552), (125, 32504), (137, 32429), (145, 32408), (147, 32405), (206, 32309), (216, 32255), (219, 32243), (223, 32228), (225, 32222),

Gene: Larenn_48 Start: 33223, Stop: 32495, Start Num: 45
Candidate Starts for Larenn_48:
(Start: 45 @33223 has 359 MA's), (74, 33178), (119, 32986), (125, 32938), (130, 32896), (131, 32893), (213, 32725), (219, 32677), (223, 32662), (225, 32656), (228, 32626), (240, 32566),

Gene: LarryKay_52 Start: 33239, Stop: 32532, Start Num: 45
Candidate Starts for LarryKay_52:
(Start: 45 @33239 has 359 MA's), (118, 33047), (219, 32714), (223, 32699),

Gene: LastResort_51 Start: 31563, Stop: 30865, Start Num: 49
Candidate Starts for LastResort_51:
(Start: 49 @31563 has 24 MA's), (81, 31506), (119, 31347), (130, 31257), (131, 31254), (165, 31176), (219, 31047), (223, 31032),

Gene: Lemur_48 Start: 32778, Stop: 32059, Start Num: 50
Candidate Starts for Lemur_48:
(Start: 50 @32778 has 204 MA's), (119, 32550), (125, 32502), (145, 32406), (147, 32403), (206, 32307), (216, 32253), (219, 32241), (223, 32226), (225, 32220),

Gene: LeoAvram_48 Start: 32781, Stop: 32062, Start Num: 50
Candidate Starts for LeoAvram_48:
(Start: 50 @32781 has 204 MA's), (119, 32553), (125, 32505), (137, 32430), (145, 32409), (147, 32406), (206, 32310), (216, 32256), (219, 32244), (223, 32229), (225, 32223),

Gene: Leogania_49 Start: 34245, Stop: 33511, Start Num: 45

Candidate Starts for Leogania_49:
(Start: 45 @34245 has 359 MA's), (119, 34008), (125, 33960), (130, 33918), (131, 33915), (213, 33747), (219, 33699), (223, 33684), (225, 33678), (228, 33648),

Gene: Lev2_41 Start: 31631, Stop: 30912, Start Num: 50
Candidate Starts for Lev2_41:
(Start: 50 @31631 has 204 MA's), (Start: 77 @31577 has 1 MA's), (90, 31553), (103, 31529), (120, 31397), (147, 31253), (208, 31154), (219, 31091), (223, 31076), (228, 31040), (239, 30983),

Gene: Leviathan_51 Start: 33663, Stop: 32938, Start Num: 45
Candidate Starts for Leviathan_51:
(Start: 45 @33663 has 359 MA's), (119, 33429), (127, 33369), (130, 33339), (131, 33336), (175, 33234), (213, 33168), (219, 33120), (223, 33105), (225, 33099),

Gene: LilTurb_50 Start: 33496, Stop: 32771, Start Num: 45
Candidate Starts for LilTurb_50:
(Start: 45 @33496 has 359 MA's), (119, 33262), (130, 33172), (131, 33169), (175, 33067), (213, 33001), (219, 32953), (223, 32938), (225, 32932),

Gene: Lilbooboo_41 Start: 31881, Stop: 32585, Start Num: 50
Candidate Starts for Lilbooboo_41:
(Start: 50 @31881 has 204 MA's), (119, 32106), (124, 32145), (141, 32244), (158, 32274), (187, 32310), (203, 32331), (223, 32418), (239, 32511), (240, 32514),

Gene: Lilbunny_50 Start: 31868, Stop: 31140, Start Num: 45
Candidate Starts for Lilbunny_50:
(Start: 45 @31868 has 359 MA's), (74, 31823), (119, 31631), (125, 31583), (130, 31541), (131, 31538), (155, 31472), (180, 31436), (210, 31385), (213, 31376), (219, 31328), (223, 31313), (241, 31214),

Gene: Lilith_53 Start: 33199, Stop: 32492, Start Num: 45
Candidate Starts for Lilith_53:
(Start: 45 @33199 has 359 MA's), (118, 33007), (130, 32902), (137, 32869), (219, 32674), (223, 32659),

Gene: Lilleskat_49 Start: 32978, Stop: 32274, Start Num: 45
Candidate Starts for Lilleskat_49:
(Start: 45 @32978 has 359 MA's), (74, 32933), (75, 32930), (Start: 77 @32927 has 1 MA's), (118, 32786), (119, 32771), (125, 32723), (130, 32681), (219, 32462), (223, 32447),

Gene: Lillie_38 Start: 29242, Stop: 28409, Start Num: 27
Candidate Starts for Lillie_38:
(Start: 27 @29242 has 8 MA's), (Start: 48 @29170 has 36 MA's), (119, 28918), (125, 28870), (132, 28810), (139, 28789), (150, 28762), (159, 28738), (191, 28678), (204, 28663), (223, 28576), (226, 28558), (237, 28492), (240, 28480),

Gene: LionsBait_49 Start: 34584, Stop: 33856, Start Num: 45
Candidate Starts for LionsBait_49:
(Start: 45 @34584 has 359 MA's), (74, 34539), (119, 34347), (130, 34257), (131, 34254), (185, 34134), (219, 34038), (223, 34023), (225, 34017),

Gene: LittleB_48 Start: 32782, Stop: 32063, Start Num: 50
Candidate Starts for LittleB_48:

(Start: 50 @32782 has 204 MA's), (119, 32554), (125, 32506), (137, 32431), (145, 32410), (147, 32407), (206, 32311), (216, 32257), (219, 32245), (223, 32230), (225, 32224),

Gene: LittleCherry_42 Start: 31971, Stop: 31249, Start Num: 50
Candidate Starts for LittleCherry_42:
(23, 32082), (Start: 50 @31971 has 204 MA's), (74, 31923), (90, 31893), (127, 31680), (180, 31536), (219, 31428), (223, 31413), (228, 31377), (240, 31317),

Gene: LittleGuy_48 Start: 32677, Stop: 31958, Start Num: 50
Candidate Starts for LittleGuy_48:
(Start: 50 @32677 has 204 MA's), (119, 32449), (125, 32401), (137, 32326), (145, 32305), (147, 32302), (206, 32206), (216, 32152), (219, 32140), (223, 32125), (225, 32119),

Gene: LochMonster_49 Start: 33017, Stop: 32298, Start Num: 50
Candidate Starts for LochMonster_49:
(Start: 50 @33017 has 204 MA's), (119, 32789), (125, 32741), (137, 32666), (145, 32645), (147, 32642), (206, 32546), (216, 32492), (219, 32480), (223, 32465), (225, 32459),

Gene: LogiBear_51 Start: 31506, Stop: 30805, Start Num: 65
Candidate Starts for LogiBear_51:
(65, 31506), (89, 31461), (113, 31344), (119, 31296), (145, 31152), (151, 31140), (172, 31107), (198, 31062), (223, 30972), (228, 30936),

Gene: LoneWolf_50 Start: 33013, Stop: 32309, Start Num: 45
Candidate Starts for LoneWolf_50:
(Start: 45 @33013 has 359 MA's), (75, 32965), (Start: 77 @32962 has 1 MA's), (118, 32821), (119, 32806), (130, 32716), (219, 32497), (223, 32482),

Gene: Looper_52 Start: 31540, Stop: 30842, Start Num: 49
Candidate Starts for Looper_52:
(Start: 49 @31540 has 24 MA's), (81, 31483), (119, 31324), (130, 31234), (131, 31231), (165, 31153), (219, 31024), (223, 31009),

Gene: Lorenzo_48 Start: 32781, Stop: 32062, Start Num: 50
Candidate Starts for Lorenzo_48:
(Start: 50 @32781 has 204 MA's), (119, 32553), (125, 32505), (137, 32430), (145, 32409), (147, 32406), (206, 32310), (216, 32256), (219, 32244), (223, 32229), (225, 32223),

Gene: Loser_51 Start: 34033, Stop: 33299, Start Num: 45
Candidate Starts for Loser_51:
(Start: 45 @34033 has 359 MA's), (74, 33988), (119, 33796), (125, 33748), (130, 33706), (145, 33652), (175, 33601), (219, 33487), (223, 33472), (225, 33466), (228, 33436), (241, 33373),

Gene: Louie6_51 Start: 33238, Stop: 32531, Start Num: 45
Candidate Starts for Louie6_51:
(Start: 45 @33238 has 359 MA's), (118, 33046), (219, 32713), (223, 32698),

Gene: Lowa_52 Start: 33198, Stop: 32491, Start Num: 45
Candidate Starts for Lowa_52:
(Start: 45 @33198 has 359 MA's), (118, 33006), (130, 32901), (137, 32868), (219, 32673), (223, 32658),

Gene: Lucivia_50 Start: 32687, Stop: 31968, Start Num: 45

Candidate Starts for Lucivia_50:
(Start: 45 @32687 has 359 MA's), (74, 32642), (119, 32450), (125, 32402), (130, 32360), (131, 32357), (155, 32291), (180, 32255), (210, 32204), (213, 32195), (219, 32147), (223, 32132), (240, 32036),

Gene: LuckySocke_162 Start: 85689, Stop: 86399, Start Num: 50
Candidate Starts for LuckySocke_162:
(Start: 50 @85689 has 204 MA's), (66, 85719), (74, 85740), (107, 85809), (110, 85851), (123, 85950), (124, 85959), (127, 85983), (134, 86037), (147, 86070), (217, 86211), (220, 86223), (224, 86238), (228, 86271), (243, 86340),

Gene: Lucyedi_50 Start: 32813, Stop: 32070, Start Num: 45
Candidate Starts for Lucyedi_50:
(Start: 45 @32813 has 359 MA's), (130, 32486), (131, 32483), (141, 32441), (219, 32258), (223, 32243),

Gene: LugYA_55 Start: 33207, Stop: 32500, Start Num: 45
Candidate Starts for LugYA_55:
(Start: 45 @33207 has 359 MA's), (118, 33015), (130, 32910), (137, 32877), (219, 32682), (223, 32667),

Gene: Lunsford_49 Start: 32775, Stop: 32056, Start Num: 50
Candidate Starts for Lunsford_49:
(Start: 50 @32775 has 204 MA's), (119, 32547), (125, 32499), (137, 32424), (145, 32403), (147, 32400), (206, 32304), (216, 32250), (219, 32238), (223, 32223), (225, 32217),

Gene: MA5_49 Start: 32411, Stop: 31680, Start Num: 45
Candidate Starts for MA5_49:
(Start: 45 @32411 has 359 MA's), (70, 32375), (119, 32168), (130, 32078), (174, 31976), (219, 31859), (223, 31844), (228, 31808),

Gene: MK4_49 Start: 32496, Stop: 31762, Start Num: 45
Candidate Starts for MK4_49:
(Start: 45 @32496 has 359 MA's), (118, 32268), (130, 32163), (131, 32160), (147, 32106), (174, 32061), (203, 32016), (219, 31944), (223, 31929), (240, 31833),

Gene: MaCh_50 Start: 32620, Stop: 31907, Start Num: 45
Candidate Starts for MaCh_50:
(Start: 45 @32620 has 359 MA's), (Start: 77 @32569 has 1 MA's), (125, 32347), (127, 32335), (131, 32302), (132, 32287), (150, 32239), (164, 32215), (213, 32134), (219, 32086), (223, 32071), (228, 32035), (240, 31975),

Gene: Mabel_49 Start: 32222, Stop: 31509, Start Num: 45
Candidate Starts for Mabel_49:
(Start: 45 @32222 has 359 MA's), (Start: 77 @32171 has 1 MA's), (125, 31949), (130, 31907), (195, 31766), (213, 31736), (216, 31700), (217, 31697), (219, 31688), (223, 31673), (225, 31667), (240, 31577),

Gene: MacGully_21 Start: 8379, Stop: 9269, Start Num: 42
Candidate Starts for MacGully_21:
(3, 8028), (Start: 42 @8379 has 1 MA's), (132, 8775), (137, 8790), (144, 8814), (153, 8838), (224, 9078), (225, 9081),

Gene: MadMarie_52 Start: 33208, Stop: 32501, Start Num: 45

Candidate Starts for MadMarie_52:
(Start: 45 @33208 has 359 MA's), (118, 33016), (130, 32911), (137, 32878), (219, 32683), (223, 32668),

Gene: Mainiac_52 Start: 33200, Stop: 32493, Start Num: 45
Candidate Starts for Mainiac_52:
(Start: 45 @33200 has 359 MA's), (118, 33008), (130, 32903), (137, 32870), (219, 32675), (223, 32660),

Gene: MajorMajor_48 Start: 32001, Stop: 31303, Start Num: 46
Candidate Starts for MajorMajor_48:
(Start: 46 @32001 has 1 MA's), (119, 31770), (125, 31722), (127, 31710), (132, 31662), (147, 31623), (208, 31548), (219, 31485), (223, 31470),

Gene: Malec_49 Start: 33787, Stop: 33059, Start Num: 45
Candidate Starts for Malec_49:
(Start: 45 @33787 has 359 MA's), (74, 33742), (119, 33550), (125, 33502), (130, 33460), (131, 33457), (213, 33289), (219, 33241), (223, 33226), (225, 33220), (228, 33190), (240, 33130),

Gene: Malinsilva_54 Start: 33198, Stop: 32491, Start Num: 45
Candidate Starts for Malinsilva_54:
(Start: 45 @33198 has 359 MA's), (118, 33006), (130, 32901), (137, 32868), (219, 32673), (223, 32658),

Gene: Maminiaina_48 Start: 32777, Stop: 32073, Start Num: 45
Candidate Starts for Maminiaina_48:
(Start: 45 @32777 has 359 MA's), (75, 32729), (Start: 77 @32726 has 1 MA's), (118, 32585), (119, 32570), (125, 32522), (130, 32480), (219, 32261), (223, 32246), (224, 32243), (225, 32240),

Gene: Manu_52 Start: 33097, Stop: 32399, Start Num: 45
Candidate Starts for Manu_52:
(Start: 32 @33157 has 1 MA's), (Start: 45 @33097 has 359 MA's), (118, 32905), (130, 32800), (131, 32797), (149, 32746), (213, 32629), (219, 32581), (223, 32566),

Gene: MarQuardt_52 Start: 33208, Stop: 32501, Start Num: 45
Candidate Starts for MarQuardt_52:
(Start: 45 @33208 has 359 MA's), (118, 33016), (130, 32911), (137, 32878), (219, 32683), (223, 32668),

Gene: Marchesa_49 Start: 32955, Stop: 32227, Start Num: 45
Candidate Starts for Marchesa_49:
(Start: 45 @32955 has 359 MA's), (70, 32919), (111, 32775), (118, 32733), (130, 32628), (131, 32625), (174, 32526), (219, 32409), (223, 32394), (225, 32388),

Gene: Margo_48 Start: 33094, Stop: 32312, Start Num: 33
Candidate Starts for Margo_48:
(Start: 33 @33094 has 7 MA's), (Start: 45 @33040 has 359 MA's), (70, 33004), (118, 32818), (130, 32713), (174, 32611), (219, 32494), (223, 32479), (240, 32383),

Gene: Marie_52 Start: 33206, Stop: 32499, Start Num: 45
Candidate Starts for Marie_52:
(Start: 45 @33206 has 359 MA's), (118, 33014), (130, 32909), (137, 32876), (219, 32681), (223, 32666),

Gene: Marius_53 Start: 33094, Stop: 32396, Start Num: 45
Candidate Starts for Marius_53:
(Start: 32 @33154 has 1 MA's), (Start: 45 @33094 has 359 MA's), (118, 32902), (130, 32797), (131, 32794), (149, 32743), (213, 32626), (219, 32578), (223, 32563),

Gene: MarysWell_40 Start: 31825, Stop: 31112, Start Num: 50
Candidate Starts for MarysWell_40:
(Start: 50 @31825 has 204 MA's), (74, 31777), (90, 31747), (118, 31609), (134, 31480), (137, 31471), (145, 31450), (204, 31363), (206, 31357), (208, 31354), (219, 31291), (223, 31276), (228, 31240), (239, 31183),

Gene: Maselop_18 Start: 8899, Stop: 9792, Start Num: 37
Candidate Starts for Maselop_18:
(Start: 37 @8899 has 5 MA's), (58, 8941), (72, 8968), (85, 8998), (119, 9172), (144, 9322), (205, 9502), (224, 9592), (230, 9631), (234, 9664),

Gene: Maverick_48 Start: 32781, Stop: 32062, Start Num: 50
Candidate Starts for Maverick_48:
(Start: 50 @32781 has 204 MA's), (119, 32553), (125, 32505), (137, 32430), (145, 32409), (147, 32406), (206, 32310), (216, 32256), (219, 32244), (223, 32229), (225, 32223),

Gene: Maxo_49 Start: 32783, Stop: 32064, Start Num: 50
Candidate Starts for Maxo_49:
(Start: 50 @32783 has 204 MA's), (119, 32555), (125, 32507), (137, 32432), (145, 32411), (147, 32408), (206, 32312), (216, 32258), (219, 32246), (223, 32231), (225, 32225),

Gene: Mayonnaise_47 Start: 32781, Stop: 32062, Start Num: 50
Candidate Starts for Mayonnaise_47:
(Start: 50 @32781 has 204 MA's), (119, 32553), (125, 32505), (137, 32430), (145, 32409), (147, 32406), (206, 32310), (216, 32256), (219, 32244), (223, 32229), (225, 32223),

Gene: Mazhar510_48 Start: 32782, Stop: 32063, Start Num: 50
Candidate Starts for Mazhar510_48:
(Start: 50 @32782 has 204 MA's), (119, 32554), (125, 32506), (137, 32431), (145, 32410), (147, 32407), (206, 32311), (216, 32257), (219, 32245), (223, 32230), (225, 32224),

Gene: Mbo2_58 Start: 46625, Stop: 45849, Start Num: 42
Candidate Starts for Mbo2_58:
(Start: 42 @46625 has 1 MA's), (Start: 68 @46577 has 6 MA's), (75, 46562), (99, 46499), (119, 46358), (124, 46319), (128, 46292), (132, 46247), (143, 46223), (163, 46187), (170, 46175), (201, 46130), (207, 46118), (219, 46058), (224, 46040), (233, 45974),

Gene: McFly_51 Start: 32085, Stop: 31348, Start Num: 45
Candidate Starts for McFly_51:
(Start: 45 @32085 has 359 MA's), (74, 32040), (119, 31848), (132, 31740), (147, 31698), (198, 31611), (219, 31536), (223, 31521), (225, 31515), (241, 31422),

Gene: Medusa_48 Start: 32780, Stop: 32061, Start Num: 50
Candidate Starts for Medusa_48:
(Start: 50 @32780 has 204 MA's), (119, 32552), (125, 32504), (137, 32429), (145, 32408), (147, 32405), (206, 32309), (216, 32255), (219, 32243), (223, 32228), (225, 32222),

Gene: MeeZee_48 Start: 32778, Stop: 32059, Start Num: 50
Candidate Starts for MeeZee_48:
(Start: 50 @32778 has 204 MA's), (119, 32550), (125, 32502), (137, 32427), (145, 32406), (147, 32403), (206, 32307), (216, 32253), (219, 32241), (223, 32226), (225, 32220),

Gene: MegTheThird_48 Start: 32605, Stop: 31904, Start Num: 45
Candidate Starts for MegTheThird_48:
(Start: 45 @32605 has 359 MA's), (118, 32410), (119, 32395), (125, 32347), (135, 32278), (150, 32239), (198, 32161), (219, 32086), (223, 32071), (225, 32065), (240, 31975),

Gene: Melvin_50 Start: 32776, Stop: 32057, Start Num: 50
Candidate Starts for Melvin_50:
(Start: 50 @32776 has 204 MA's), (119, 32548), (125, 32500), (137, 32425), (145, 32404), (147, 32401), (206, 32305), (216, 32251), (219, 32239), (223, 32224), (225, 32218),

Gene: Methuselah_48 Start: 33233, Stop: 32526, Start Num: 45
Candidate Starts for Methuselah_48:
(Start: 45 @33233 has 359 MA's), (118, 33041), (219, 32708), (223, 32693),

Gene: Micasa_43 Start: 32101, Stop: 31379, Start Num: 50
Candidate Starts for Micasa_43:
(Start: 50 @32101 has 204 MA's), (74, 32053), (90, 32023), (127, 31810), (131, 31777), (180, 31666), (219, 31558), (223, 31543), (228, 31507), (240, 31447),

Gene: Microwolf_52 Start: 33207, Stop: 32500, Start Num: 45
Candidate Starts for Microwolf_52:
(Start: 45 @33207 has 359 MA's), (118, 33015), (130, 32910), (137, 32877), (219, 32682), (223, 32667),

Gene: MiculUcigas_49 Start: 33020, Stop: 32292, Start Num: 45
Candidate Starts for MiculUcigas_49:
(Start: 45 @33020 has 359 MA's), (119, 32783), (125, 32735), (130, 32693), (131, 32690), (213, 32522), (219, 32474), (223, 32459), (225, 32453),

Gene: Midas2_41 Start: 31816, Stop: 31097, Start Num: 50
Candidate Starts for Midas2_41:
(Start: 50 @31816 has 204 MA's), (Start: 77 @31762 has 1 MA's), (90, 31738), (103, 31714), (120, 31582), (147, 31438), (208, 31339), (219, 31276), (223, 31261), (228, 31225), (239, 31168),

Gene: Miko_46 Start: 33176, Stop: 32445, Start Num: 45
Candidate Starts for Miko_46:
(Start: 45 @33176 has 359 MA's), (118, 32957), (125, 32894), (130, 32852), (131, 32849), (219, 32633), (223, 32618), (225, 32612), (240, 32522),

Gene: Milcery_42 Start: 31929, Stop: 31216, Start Num: 50
Candidate Starts for Milcery_42:
(Start: 50 @31929 has 204 MA's), (74, 31881), (90, 31851), (125, 31650), (130, 31608), (131, 31605), (155, 31539), (176, 31503), (209, 31452), (212, 31443), (219, 31395), (223, 31380), (228, 31344), (240, 31284),

Gene: Millski_47 Start: 32782, Stop: 32063, Start Num: 50
Candidate Starts for Millski_47:

(Start: 50 @32782 has 204 MA's), (119, 32554), (125, 32506), (137, 32431), (145, 32410), (147, 32407), (206, 32311), (216, 32257), (219, 32245), (223, 32230), (225, 32224),

Gene: MinecraftSteve_53 Start: 31802, Stop: 31074, Start Num: 49
Candidate Starts for MinecraftSteve_53:
(Start: 49 @31802 has 24 MA's), (94, 31712), (119, 31556), (130, 31466), (131, 31463), (165, 31385), (219, 31256), (223, 31241),

Gene: Minispark_48 Start: 32542, Stop: 31841, Start Num: 45
Candidate Starts for Minispark_48:
(Start: 45 @32542 has 359 MA's), (119, 32332), (125, 32284), (130, 32242), (135, 32215), (147, 32185), (150, 32176), (162, 32155), (198, 32098), (213, 32071), (219, 32023), (223, 32008),

Gene: Misomonster_53 Start: 33236, Stop: 32529, Start Num: 45
Candidate Starts for Misomonster_53:
(Start: 45 @33236 has 359 MA's), (118, 33044), (219, 32711), (223, 32696),

Gene: MissWhite_48 Start: 31539, Stop: 30817, Start Num: 45
Candidate Starts for MissWhite_48:
(Start: 45 @31539 has 359 MA's), (74, 31494), (119, 31308), (125, 31260), (130, 31218), (131, 31215), (155, 31149), (180, 31113), (210, 31062), (213, 31053), (219, 31005), (223, 30990), (240, 30894),

Gene: ModicumRichard_72 Start: 47212, Stop: 47916, Start Num: 68
Candidate Starts for ModicumRichard_72:
(Start: 68 @47212 has 6 MA's), (103, 47296), (119, 47425), (125, 47473), (127, 47485), (130, 47515), (141, 47560), (204, 47662), (219, 47734), (223, 47749), (228, 47785),

Gene: MoneyMay_52 Start: 33206, Stop: 32499, Start Num: 45
Candidate Starts for MoneyMay_52:
(Start: 45 @33206 has 359 MA's), (118, 33014), (130, 32909), (137, 32876), (219, 32681), (223, 32666),

Gene: Montavir_51 Start: 33207, Stop: 32500, Start Num: 45
Candidate Starts for Montavir_51:
(Start: 45 @33207 has 359 MA's), (118, 33015), (130, 32910), (137, 32877), (219, 32682), (223, 32667),

Gene: Morgana_76 Start: 48827, Stop: 49531, Start Num: 68
Candidate Starts for Morgana_76:
(15, 48581), (17, 48608), (Start: 68 @48827 has 6 MA's), (119, 49040), (125, 49088), (130, 49130), (145, 49184), (171, 49229), (177, 49241), (198, 49274), (204, 49277), (219, 49349), (223, 49364), (240, 49460),

Gene: Morpher26_47 Start: 32778, Stop: 32059, Start Num: 50
Candidate Starts for Morpher26_47:
(Start: 50 @32778 has 204 MA's), (119, 32550), (125, 32502), (131, 32457), (145, 32406), (147, 32403), (148, 32400), (206, 32307), (213, 32289), (219, 32241), (223, 32226),

Gene: Morrow_49 Start: 32787, Stop: 32068, Start Num: 50
Candidate Starts for Morrow_49:
(Start: 50 @32787 has 204 MA's), (119, 32559), (125, 32511), (137, 32436), (145, 32415), (147, 32412), (206, 32316), (216, 32262), (219, 32250), (223, 32235), (225, 32229),

Gene: MuchMore_55 Start: 33198, Stop: 32491, Start Num: 45
Candidate Starts for MuchMore_55:
(Start: 45 @33198 has 359 MA's), (118, 33006), (130, 32901), (137, 32868), (219, 32673), (223, 32658),

Gene: Mulciber_49 Start: 32184, Stop: 31471, Start Num: 45
Candidate Starts for Mulciber_49:
(Start: 45 @32184 has 359 MA's), (Start: 77 @32133 has 1 MA's), (125, 31911), (130, 31869), (195, 31728), (213, 31698), (216, 31662), (219, 31650), (223, 31635), (225, 31629), (240, 31539),

Gene: Munch_50 Start: 32638, Stop: 31919, Start Num: 45
Candidate Starts for Munch_50:
(Start: 45 @32638 has 359 MA's), (74, 32593), (119, 32401), (125, 32353), (130, 32311), (131, 32308), (155, 32242), (180, 32206), (210, 32155), (213, 32146), (219, 32098), (223, 32083), (240, 31987),

Gene: Mundrea_47 Start: 32765, Stop: 32046, Start Num: 50
Candidate Starts for Mundrea_47:
(31, 32828), (Start: 50 @32765 has 204 MA's), (119, 32537), (137, 32414), (147, 32390), (148, 32387), (206, 32294), (216, 32240), (219, 32228), (223, 32213),

Gene: Myxus_49 Start: 33024, Stop: 32320, Start Num: 45
Candidate Starts for Myxus_49:
(Start: 45 @33024 has 359 MA's), (74, 32979), (75, 32976), (Start: 77 @32973 has 1 MA's), (118, 32832), (119, 32817), (125, 32769), (130, 32727), (219, 32508), (223, 32493),

Gene: NaSiaTalie_49 Start: 33117, Stop: 32389, Start Num: 45
Candidate Starts for NaSiaTalie_49:
(Start: 45 @33117 has 359 MA's), (119, 32880), (125, 32832), (130, 32790), (131, 32787), (213, 32619), (219, 32571), (223, 32556), (225, 32550),

Gene: Naca_43 Start: 32243, Stop: 31527, Start Num: 50
Candidate Starts for Naca_43:
(Start: 50 @32243 has 204 MA's), (Start: 77 @32189 has 1 MA's), (90, 32165), (91, 32162), (118, 32030), (125, 31967), (130, 31925), (131, 31922), (138, 31889), (174, 31823), (213, 31754), (219, 31706), (223, 31691),

Gene: Naiad_38 Start: 29183, Stop: 28422, Start Num: 48
Candidate Starts for Naiad_38:
(Start: 27 @29255 has 8 MA's), (Start: 48 @29183 has 36 MA's), (119, 28931), (125, 28883), (132, 28823), (139, 28802), (150, 28775), (159, 28751), (191, 28691), (204, 28676), (223, 28589), (226, 28571), (237, 28505), (240, 28493),

Gene: Naji_51 Start: 32823, Stop: 32116, Start Num: 45
Candidate Starts for Naji_51:
(Start: 45 @32823 has 359 MA's), (118, 32628), (119, 32613), (130, 32523), (131, 32520), (141, 32478), (219, 32304), (223, 32289), (240, 32193),

Gene: Nancinator_38 Start: 29171, Stop: 28410, Start Num: 48
Candidate Starts for Nancinator_38:
(Start: 27 @29243 has 8 MA's), (Start: 48 @29171 has 36 MA's), (119, 28919), (125, 28871), (132, 28811), (139, 28790), (159, 28739), (191, 28679), (204, 28664), (223, 28577), (226, 28559), (237, 28493), (240, 28481),

Gene: Natosaleda_38 Start: 29170, Stop: 28409, Start Num: 48
Candidate Starts for Natosaleda_38:
(Start: 27 @29242 has 8 MA's), (Start: 48 @29170 has 36 MA's), (119, 28918), (125, 28870), (132, 28810), (139, 28789), (159, 28738), (191, 28678), (204, 28663), (223, 28576), (226, 28558), (237, 28492), (240, 28480),

Gene: Nebkiss_89 Start: 52422, Stop: 53147, Start Num: 50
Candidate Starts for Nebkiss_89:
(Start: 50 @52422 has 204 MA's), (119, 52656), (125, 52704), (131, 52749), (132, 52764), (174, 52848), (219, 52965), (223, 52980), (228, 53016), (237, 53064), (240, 53076), (241, 53079), (245, 53088),

Gene: Nebs_49 Start: 32781, Stop: 32062, Start Num: 50
Candidate Starts for Nebs_49:
(Start: 50 @32781 has 204 MA's), (119, 32553), (125, 32505), (137, 32430), (145, 32409), (147, 32406), (206, 32310), (216, 32256), (219, 32244), (223, 32229), (225, 32223),

Gene: Nebulosus_51 Start: 31559, Stop: 30861, Start Num: 49
Candidate Starts for Nebulosus_51:
(Start: 49 @31559 has 24 MA's), (81, 31502), (119, 31343), (130, 31253), (131, 31250), (165, 31172), (219, 31043), (223, 31028),

Gene: Nedarya_47 Start: 31008, Stop: 30265, Start Num: 49
Candidate Starts for Nedarya_47:
(Start: 49 @31008 has 24 MA's), (80, 30945), (119, 30762), (130, 30672), (131, 30669), (145, 30618), (219, 30453), (223, 30438),

Gene: Neeharika16_50 Start: 31545, Stop: 30808, Start Num: 45
Candidate Starts for Neeharika16_50:
(Start: 45 @31545 has 359 MA's), (74, 31500), (119, 31308), (125, 31260), (127, 31248), (130, 31218), (131, 31215), (164, 31125), (219, 30996), (223, 30981), (225, 30975), (241, 30882),

Gene: Nemo27_48 Start: 32780, Stop: 32061, Start Num: 50
Candidate Starts for Nemo27_48:
(Start: 50 @32780 has 204 MA's), (119, 32552), (125, 32504), (137, 32429), (145, 32408), (147, 32405), (206, 32309), (216, 32255), (219, 32243), (223, 32228), (225, 32222),

Gene: Newrala_51 Start: 32093, Stop: 31359, Start Num: 45
Candidate Starts for Newrala_51:
(Start: 45 @32093 has 359 MA's), (74, 32048), (92, 32012), (119, 31856), (130, 31766), (131, 31763), (145, 31712), (198, 31622), (203, 31619), (213, 31595), (219, 31547), (223, 31532), (225, 31526), (241, 31433),

Gene: NicoleTera_48 Start: 33381, Stop: 32650, Start Num: 45
Candidate Starts for NicoleTera_48:
(Start: 45 @33381 has 359 MA's), (89, 33309), (118, 33162), (119, 33147), (125, 33099), (130, 33057), (131, 33054), (213, 32886), (219, 32838), (223, 32823), (225, 32817), (228, 32787),

Gene: Nirvana_8 Start: 4133, Stop: 3351, Start Num: 56
Candidate Starts for Nirvana_8:
(Start: 56 @4133 has 8 MA's), (63, 4124), (70, 4112), (112, 3938), (124, 3833), (132, 3758), (170, 3686), (180, 3668), (193, 3647), (211, 3614), (215, 3578), (221, 3554), (223, 3542), (244, 3434), (257, 3356),

Gene: Noella_48 Start: 33015, Stop: 32287, Start Num: 45
Candidate Starts for Noella_48:
(Start: 33 @33069 has 7 MA's), (Start: 45 @33015 has 359 MA's), (70, 32979), (118, 32793), (130, 32688), (174, 32586), (219, 32469), (223, 32454), (240, 32358),

Gene: Noelle_48 Start: 33067, Stop: 32348, Start Num: 50
Candidate Starts for Noelle_48:
(Start: 50 @33067 has 204 MA's), (119, 32839), (125, 32791), (131, 32746), (145, 32695), (147, 32692), (148, 32689), (206, 32596), (216, 32542), (219, 32530), (223, 32515),

Gene: Norbert_47 Start: 33014, Stop: 32286, Start Num: 45
Candidate Starts for Norbert_47:
(Start: 33 @33068 has 7 MA's), (Start: 45 @33014 has 359 MA's), (70, 32978), (118, 32792), (130, 32687), (174, 32585), (219, 32468), (223, 32453), (240, 32357),

Gene: NorthStar_47 Start: 32781, Stop: 32062, Start Num: 50
Candidate Starts for NorthStar_47:
(Start: 50 @32781 has 204 MA's), (119, 32553), (125, 32505), (137, 32430), (145, 32409), (147, 32406), (206, 32310), (216, 32256), (219, 32244), (223, 32229), (225, 32223),

Gene: Northrop_48 Start: 32777, Stop: 32058, Start Num: 50
Candidate Starts for Northrop_48:
(Start: 50 @32777 has 204 MA's), (119, 32549), (125, 32501), (137, 32426), (145, 32405), (147, 32402), (206, 32306), (216, 32252), (219, 32240), (223, 32225), (225, 32219),

Gene: NotAPhaseMom_48 Start: 32785, Stop: 32066, Start Num: 50
Candidate Starts for NotAPhaseMom_48:
(Start: 50 @32785 has 204 MA's), (119, 32557), (125, 32509), (137, 32434), (145, 32413), (147, 32410), (206, 32314), (216, 32260), (219, 32248), (223, 32233), (225, 32227),

Gene: NothingSpecial_47 Start: 33635, Stop: 32904, Start Num: 45
Candidate Starts for NothingSpecial_47:
(Start: 45 @33635 has 359 MA's), (66, 33605), (119, 33398), (125, 33350), (130, 33308), (131, 33305), (134, 33284), (170, 33209), (213, 33134), (216, 33098), (219, 33086), (223, 33071), (225, 33065), (240, 32975),

Gene: Nyxis_48 Start: 32671, Stop: 31952, Start Num: 50
Candidate Starts for Nyxis_48:
(Start: 50 @32671 has 204 MA's), (119, 32443), (125, 32395), (137, 32320), (145, 32299), (147, 32296), (206, 32200), (216, 32146), (219, 32134), (223, 32119), (225, 32113),

Gene: OKCentral2016_46 Start: 32116, Stop: 31385, Start Num: 50
Candidate Starts for OKCentral2016_46:
(Start: 44 @32122 has 13 MA's), (Start: 50 @32116 has 204 MA's), (117, 31897), (119, 31876), (125, 31828), (130, 31786), (131, 31783), (174, 31687), (223, 31552), (240, 31456),

Gene: OKaNui_48 Start: 32831, Stop: 32112, Start Num: 50
Candidate Starts for OKaNui_48:
(Start: 50 @32831 has 204 MA's), (119, 32603), (125, 32555), (137, 32480), (145, 32459), (147, 32456), (206, 32360), (216, 32306), (219, 32294), (223, 32279), (225, 32273),

Gene: ObLaDi_72 Start: 47184, Stop: 47888, Start Num: 68

Candidate Starts for ObLaDi_72:
(Start: 68 @47184 has 6 MA's), (103, 47268), (119, 47397), (125, 47445), (127, 47457), (130, 47487), (141, 47532), (204, 47634), (219, 47706), (223, 47721), (228, 47757),

Gene: Obama12_49 Start: 33205, Stop: 32486, Start Num: 50
Candidate Starts for Obama12_49:
(Start: 50 @33205 has 204 MA's), (74, 33160), (119, 32977), (125, 32929), (145, 32833), (147, 32830), (216, 32680), (219, 32668), (223, 32653), (225, 32647),

Gene: Octobien14_107 Start: 59811, Stop: 60539, Start Num: 57
Candidate Starts for Octobien14_107:
(Start: 57 @59811 has 10 MA's), (91, 59874), (107, 59919), (108, 59922), (119, 60030), (121, 60048), (124, 60069), (128, 60096), (129, 60111), (142, 60171), (225, 60354), (227, 60378), (229, 60387), (234, 60423), (247, 60462), (250, 60477), (254, 60495),

Gene: Odin_48 Start: 31799, Stop: 31077, Start Num: 45
Candidate Starts for Odin_48:
(Start: 45 @31799 has 359 MA's), (90, 31724), (91, 31721), (126, 31523), (130, 31484), (131, 31481), (141, 31439), (154, 31418), (178, 31373), (219, 31265), (223, 31250), (224, 31247), (225, 31244), (240, 31154),

Gene: Ohfah_49 Start: 32781, Stop: 32062, Start Num: 50
Candidate Starts for Ohfah_49:
(Start: 50 @32781 has 204 MA's), (119, 32553), (125, 32505), (137, 32430), (145, 32409), (147, 32406), (206, 32310), (216, 32256), (219, 32244), (223, 32229), (225, 32223),

Gene: OlanP_51 Start: 33267, Stop: 32569, Start Num: 45
Candidate Starts for OlanP_51:
(Start: 32 @33327 has 1 MA's), (Start: 45 @33267 has 359 MA's), (118, 33075), (130, 32970), (131, 32967), (149, 32916), (170, 32871), (213, 32799), (219, 32751), (223, 32736),

Gene: Ollie_52 Start: 33077, Stop: 32370, Start Num: 45
Candidate Starts for Ollie_52:
(Start: 45 @33077 has 359 MA's), (118, 32885), (130, 32780), (137, 32747), (219, 32552), (223, 32537),

Gene: OneUp_83 Start: 54980, Stop: 55717, Start Num: 57
Candidate Starts for OneUp_83:
(Start: 57 @54980 has 10 MA's), (88, 55037), (104, 55088), (119, 55211), (127, 55274), (128, 55277), (143, 55346), (170, 55388), (227, 55553),

Gene: Onglai_48 Start: 31365, Stop: 30661, Start Num: 45
Candidate Starts for Onglai_48:
(Start: 45 @31365 has 359 MA's), (74, 31320), (75, 31317), (Start: 77 @31314 has 1 MA's), (118, 31173), (119, 31158), (125, 31110), (130, 31068), (219, 30849), (223, 30834),

Gene: Oofda_51 Start: 31445, Stop: 30717, Start Num: 49
Candidate Starts for Oofda_51:
(Start: 49 @31445 has 24 MA's), (94, 31355), (119, 31199), (130, 31109), (165, 31028), (219, 30899), (223, 30884), (240, 30788),

Gene: Orange_49 Start: 32187, Stop: 31468, Start Num: 45
Candidate Starts for Orange_49:

(Start: 45 @32187 has 359 MA's), (74, 32142), (119, 31950), (125, 31902), (130, 31860), (131, 31857), (155, 31791), (180, 31755), (210, 31704), (213, 31695), (219, 31647), (223, 31632), (225, 31626), (240, 31536),

Gene: P28Green_53 Start: 33209, Stop: 32502, Start Num: 45
Candidate Starts for P28Green_53:
(Start: 45 @33209 has 359 MA's), (118, 33017), (130, 32912), (137, 32879), (219, 32684), (223, 32669),

Gene: PGHhamlin_54 Start: 33198, Stop: 32491, Start Num: 45
Candidate Starts for PGHhamlin_54:
(Start: 45 @33198 has 359 MA's), (118, 33006), (130, 32901), (137, 32868), (219, 32673), (223, 32658),

Gene: PackMan_48 Start: 33024, Stop: 32320, Start Num: 45
Candidate Starts for PackMan_48:
(Start: 45 @33024 has 359 MA's), (74, 32979), (75, 32976), (Start: 77 @32973 has 1 MA's), (118, 32832), (119, 32817), (125, 32769), (130, 32727), (219, 32508), (223, 32493),

Gene: PainterBoy_50 Start: 32749, Stop: 32006, Start Num: 45
Candidate Starts for PainterBoy_50:
(Start: 45 @32749 has 359 MA's), (130, 32422), (131, 32419), (141, 32377), (219, 32194), (223, 32179),

Gene: Palestino_47 Start: 32781, Stop: 32062, Start Num: 50
Candidate Starts for Palestino_47:
(Start: 50 @32781 has 204 MA's), (119, 32553), (125, 32505), (137, 32430), (145, 32409), (147, 32406), (206, 32310), (216, 32256), (219, 32244), (223, 32229), (225, 32223),

Gene: Panamaxus_46 Start: 33014, Stop: 32286, Start Num: 45
Candidate Starts for Panamaxus_46:
(Start: 33 @33068 has 7 MA's), (Start: 45 @33014 has 359 MA's), (70, 32978), (118, 32792), (130, 32687), (174, 32585), (219, 32468), (223, 32453), (240, 32357),

Gene: Park1214_166 Start: 87104, Stop: 87808, Start Num: 50
Candidate Starts for Park1214_166:
(Start: 50 @87104 has 204 MA's), (66, 87134), (74, 87155), (110, 87266), (114, 87293), (120, 87338), (124, 87374), (127, 87398), (132, 87446), (134, 87452), (177, 87521), (190, 87542), (217, 87620), (224, 87647), (228, 87680), (232, 87701),

Gene: Partridge_38 Start: 29332, Stop: 28571, Start Num: 48
Candidate Starts for Partridge_38:
(Start: 27 @29404 has 8 MA's), (Start: 48 @29332 has 36 MA's), (119, 29080), (125, 29032), (132, 28972), (139, 28951), (159, 28900), (191, 28840), (204, 28825), (223, 28738), (226, 28720),

Gene: Pawn_52 Start: 33101, Stop: 32403, Start Num: 45
Candidate Starts for Pawn_52:
(Start: 32 @33161 has 1 MA's), (Start: 45 @33101 has 359 MA's), (118, 32909), (130, 32804), (131, 32801), (149, 32750), (213, 32633), (219, 32585), (223, 32570),

Gene: PeaceMeal1_45 Start: 31691, Stop: 30963, Start Num: 44
Candidate Starts for PeaceMeal1_45:

(Start: 44 @31691 has 13 MA's), (Start: 50 @31685 has 204 MA's), (119, 31454), (125, 31406), (130, 31364), (131, 31361), (139, 31325), (150, 31298), (219, 31145), (223, 31130), (240, 31034),

Gene: Peaches_48 Start: 32780, Stop: 32061, Start Num: 50
Candidate Starts for Peaches_48:
(Start: 50 @32780 has 204 MA's), (119, 32552), (125, 32504), (137, 32429), (145, 32408), (147, 32405), (206, 32309), (216, 32255), (219, 32243), (223, 32228), (225, 32222),

Gene: Pembroke_52 Start: 33207, Stop: 32500, Start Num: 45
Candidate Starts for Pembroke_52:
(Start: 45 @33207 has 359 MA's), (118, 33015), (130, 32910), (137, 32877), (219, 32682), (223, 32667),

Gene: Penny1_53 Start: 33210, Stop: 32503, Start Num: 45
Candidate Starts for Penny1_53:
(Start: 45 @33210 has 359 MA's), (118, 33018), (130, 32913), (137, 32880), (219, 32685), (223, 32670),

Gene: Perplexer_47 Start: 32754, Stop: 32035, Start Num: 50
Candidate Starts for Perplexer_47:
(Start: 50 @32754 has 204 MA's), (119, 32526), (125, 32478), (131, 32433), (145, 32382), (147, 32379), (148, 32376), (206, 32283), (213, 32265), (219, 32217), (223, 32202),

Gene: PeterPeter_48 Start: 32778, Stop: 32059, Start Num: 50
Candidate Starts for PeterPeter_48:
(Start: 50 @32778 has 204 MA's), (119, 32550), (125, 32502), (137, 32427), (145, 32406), (147, 32403), (206, 32307), (216, 32253), (219, 32241), (223, 32226), (225, 32220),

Gene: Petersenfast_49 Start: 32189, Stop: 31476, Start Num: 45
Candidate Starts for Petersenfast_49:
(Start: 45 @32189 has 359 MA's), (Start: 77 @32138 has 1 MA's), (125, 31916), (130, 31874), (195, 31733), (213, 31703), (216, 31667), (219, 31655), (223, 31640), (225, 31634), (240, 31544),

Gene: PeteyPab_9 Start: 4717, Stop: 5490, Start Num: 48
Candidate Starts for PeteyPab_9:
(Start: 48 @4717 has 36 MA's), (51, 4729), (69, 4753), (76, 4771), (122, 4993), (132, 5077), (133, 5080), (179, 5161), (217, 5257), (222, 5275), (223, 5281), (226, 5299), (227, 5311), (245, 5389), (249, 5401),

Gene: PetiteSangsue_47 Start: 32757, Stop: 32038, Start Num: 50
Candidate Starts for PetiteSangsue_47:
(Start: 50 @32757 has 204 MA's), (119, 32529), (125, 32481), (131, 32436), (145, 32385), (147, 32382), (148, 32379), (206, 32286), (213, 32268), (219, 32220), (223, 32205),

Gene: PetterN_45 Start: 31663, Stop: 30968, Start Num: 50
Candidate Starts for PetterN_45:
(Start: 50 @31663 has 204 MA's), (Start: 77 @31609 has 1 MA's), (90, 31585), (91, 31582), (118, 31450), (125, 31387), (137, 31312), (166, 31258), (219, 31147), (223, 31132),

Gene: Ph8s_51 Start: 32414, Stop: 31710, Start Num: 45
Candidate Starts for Ph8s_51:
(Start: 45 @32414 has 359 MA's), (130, 32117), (131, 32114), (137, 32084), (141, 32072), (154, 32051), (170, 32018), (174, 32015), (178, 32006), (219, 31898), (223, 31883), (228, 31847), (240,

31787),

Gene: Phacado_48 Start: 32780, Stop: 32061, Start Num: 50
Candidate Starts for Phacado_48:
(Start: 50 @32780 has 204 MA's), (119, 32552), (125, 32504), (137, 32429), (145, 32408), (147, 32405), (206, 32309), (216, 32255), (219, 32243), (223, 32228), (225, 32222),

Gene: Phaded_50 Start: 34266, Stop: 33541, Start Num: 45
Candidate Starts for Phaded_50:
(Start: 45 @34266 has 359 MA's), (74, 34221), (119, 34032), (125, 33984), (130, 33942), (131, 33939), (150, 33876), (174, 33840), (175, 33837), (213, 33771), (216, 33735), (219, 33723), (223, 33708), (240, 33612),

Gene: Phaeder_49 Start: 33024, Stop: 32320, Start Num: 45
Candidate Starts for Phaeder_49:
(Start: 45 @33024 has 359 MA's), (74, 32979), (75, 32976), (Start: 77 @32973 has 1 MA's), (118, 32832), (119, 32817), (125, 32769), (130, 32727), (219, 32508), (223, 32493),

Gene: PhailMary_37 Start: 29564, Stop: 28731, Start Num: 27
Candidate Starts for PhailMary_37:
(Start: 27 @29564 has 8 MA's), (Start: 48 @29492 has 36 MA's), (125, 29192), (132, 29132), (139, 29111), (159, 29060), (191, 29000), (204, 28985), (223, 28898), (226, 28880), (237, 28814), (240, 28802),

Gene: Phantastic_50 Start: 32700, Stop: 31966, Start Num: 45
Candidate Starts for Phantastic_50:
(Start: 45 @32700 has 359 MA's), (118, 32472), (130, 32367), (131, 32364), (147, 32310), (174, 32265), (219, 32148), (223, 32133), (240, 32037),

Gene: Pharaoh_44 Start: 32794, Stop: 32087, Start Num: 45
Candidate Starts for Pharaoh_44:
(Start: 45 @32794 has 359 MA's), (118, 32599), (119, 32584), (149, 32440), (150, 32437), (219, 32275), (223, 32260), (225, 32254), (228, 32224),

Gene: Phelipe_49 Start: 32781, Stop: 32062, Start Num: 50
Candidate Starts for Phelipe_49:
(Start: 50 @32781 has 204 MA's), (119, 32553), (125, 32505), (137, 32430), (145, 32409), (147, 32406), (206, 32310), (216, 32256), (219, 32244), (223, 32229), (225, 32223),

Gene: Phighter1804_48 Start: 32847, Stop: 32128, Start Num: 50
Candidate Starts for Phighter1804_48:
(Start: 50 @32847 has 204 MA's), (74, 32802), (119, 32619), (145, 32475), (147, 32472), (206, 32376), (219, 32310), (223, 32295),

Gene: PhishRPhriends_50 Start: 32275, Stop: 31577, Start Num: 45
Candidate Starts for PhishRPhriends_50:
(Start: 32 @32335 has 1 MA's), (Start: 45 @32275 has 359 MA's), (118, 32083), (130, 31978), (131, 31975), (149, 31924), (213, 31807), (219, 31759), (223, 31744),

Gene: Phlei_38 Start: 32546, Stop: 31824, Start Num: 45
Candidate Starts for Phlei_38:
(Start: 45 @32546 has 359 MA's), (74, 32501), (102, 32447), (119, 32315), (125, 32267), (131, 32222), (178, 32114), (216, 32018), (219, 32006), (223, 31991), (224, 31988), (225, 31985), (228, 31955),

(240, 31895),

Gene: Phlorence_40 Start: 31500, Stop: 30787, Start Num: 50
Candidate Starts for Phlorence_40:
(Start: 50 @31500 has 204 MA's), (74, 31452), (90, 31422), (118, 31284), (127, 31209), (130, 31179), (131, 31176), (155, 31110), (176, 31074), (209, 31023), (212, 31014), (219, 30966), (223, 30951), (228, 30915), (239, 30858),

Gene: Phoebe_53 Start: 33199, Stop: 32492, Start Num: 45
Candidate Starts for Phoebe_53:
(Start: 45 @33199 has 359 MA's), (118, 33007), (130, 32902), (137, 32869), (219, 32674), (223, 32659),

Gene: Phonnegut_49 Start: 33073, Stop: 32369, Start Num: 45
Candidate Starts for Phonnegut_49:
(Start: 45 @33073 has 359 MA's), (74, 33028), (75, 33025), (Start: 77 @33022 has 1 MA's), (118, 32881), (119, 32866), (125, 32818), (130, 32776), (219, 32557), (223, 32542),

Gene: Phontbonne_48 Start: 32672, Stop: 31953, Start Num: 50
Candidate Starts for Phontbonne_48:
(Start: 50 @32672 has 204 MA's), (119, 32444), (125, 32396), (137, 32321), (145, 32300), (147, 32297), (206, 32201), (216, 32147), (219, 32135), (223, 32120), (225, 32114),

Gene: Phoxy_52 Start: 33234, Stop: 32527, Start Num: 45
Candidate Starts for Phoxy_52:
(Start: 45 @33234 has 359 MA's), (118, 33042), (219, 32709), (223, 32694),

Gene: Phrankenstein_38 Start: 29116, Stop: 28355, Start Num: 48
Candidate Starts for Phrankenstein_38:
(Start: 27 @29188 has 8 MA's), (Start: 48 @29116 has 36 MA's), (54, 29101), (119, 28864), (125, 28816), (132, 28756), (139, 28735), (159, 28684), (191, 28624), (204, 28609), (223, 28522), (226, 28504), (237, 28438), (240, 28426),

Gene: Phranny_53 Start: 33083, Stop: 32385, Start Num: 45
Candidate Starts for Phranny_53:
(Start: 32 @33143 has 1 MA's), (Start: 45 @33083 has 359 MA's), (118, 32891), (130, 32786), (131, 32783), (149, 32732), (213, 32615), (219, 32567), (223, 32552),

Gene: PickleBack_41 Start: 31632, Stop: 30913, Start Num: 50
Candidate Starts for PickleBack_41:
(Start: 50 @31632 has 204 MA's), (Start: 77 @31578 has 1 MA's), (90, 31554), (103, 31530), (120, 31398), (147, 31254), (208, 31155), (219, 31092), (223, 31077), (228, 31041), (239, 30984),

Gene: Pioneer_49 Start: 33073, Stop: 32369, Start Num: 45
Candidate Starts for Pioneer_49:
(Start: 45 @33073 has 359 MA's), (74, 33028), (75, 33025), (Start: 77 @33022 has 1 MA's), (118, 32881), (119, 32866), (125, 32818), (130, 32776), (219, 32557), (223, 32542),

Gene: Pipcraft_46 Start: 32781, Stop: 32062, Start Num: 50
Candidate Starts for Pipcraft_46:
(Start: 50 @32781 has 204 MA's), (119, 32553), (125, 32505), (137, 32430), (145, 32409), (147, 32406), (206, 32310), (216, 32256), (219, 32244), (223, 32229), (225, 32223),

Gene: Piro94_49 Start: 33461, Stop: 32733, Start Num: 45
Candidate Starts for Piro94_49:
(Start: 45 @33461 has 359 MA's), (119, 33224), (125, 33176), (130, 33134), (131, 33131), (213, 32963), (219, 32915), (223, 32900), (225, 32894),

Gene: Pistachio_51 Start: 32623, Stop: 31895, Start Num: 45
Candidate Starts for Pistachio_51:
(28, 32692), (Start: 45 @32623 has 359 MA's), (111, 32443), (118, 32401), (130, 32296), (131, 32293), (174, 32194), (203, 32149), (219, 32077), (223, 32062),

Gene: Pmask_51 Start: 32094, Stop: 31360, Start Num: 45
Candidate Starts for Pmask_51:
(Start: 45 @32094 has 359 MA's), (74, 32049), (92, 32013), (119, 31857), (130, 31767), (131, 31764), (145, 31713), (198, 31623), (203, 31620), (213, 31596), (219, 31548), (223, 31533), (225, 31527), (241, 31434),

Gene: Pocahontas_48 Start: 33011, Stop: 32283, Start Num: 45
Candidate Starts for Pocahontas_48:
(Start: 33 @33065 has 7 MA's), (Start: 45 @33011 has 359 MA's), (70, 32975), (118, 32789), (130, 32684), (174, 32582), (219, 32465), (223, 32450), (240, 32354),

Gene: Polymorphads_49 Start: 32774, Stop: 32055, Start Num: 50
Candidate Starts for Polymorphads_49:
(Start: 50 @32774 has 204 MA's), (119, 32546), (125, 32498), (137, 32423), (145, 32402), (147, 32399), (206, 32303), (216, 32249), (219, 32237), (223, 32222), (225, 32216),

Gene: Polyphemus_53 Start: 32470, Stop: 31733, Start Num: 45
Candidate Starts for Polyphemus_53:
(Start: 45 @32470 has 359 MA's), (74, 32425), (119, 32233), (127, 32173), (132, 32125), (147, 32083), (162, 32053), (198, 31996), (219, 31921), (223, 31906), (225, 31900), (241, 31807),

Gene: Polyyuki_18 Start: 8915, Stop: 9802, Start Num: 37
Candidate Starts for Polyyuki_18:
(Start: 18 @8819 has 1 MA's), (22, 8849), (30, 8888), (Start: 37 @8915 has 5 MA's), (58, 8954), (72, 8981), (85, 9011), (119, 9185), (144, 9335), (155, 9365), (182, 9440), (223, 9599), (234, 9674), (237, 9683),

Gene: Pomar16_51 Start: 32863, Stop: 32156, Start Num: 45
Candidate Starts for Pomar16_51:
(Start: 45 @32863 has 359 MA's), (118, 32668), (119, 32653), (130, 32563), (131, 32560), (141, 32518), (219, 32344), (223, 32329), (240, 32233),

Gene: Poompha_46 Start: 31689, Stop: 30961, Start Num: 44
Candidate Starts for Poompha_46:
(Start: 44 @31689 has 13 MA's), (Start: 50 @31683 has 204 MA's), (119, 31452), (125, 31404), (130, 31362), (131, 31359), (139, 31323), (150, 31296), (219, 31143), (223, 31128), (240, 31032),

Gene: Popcicle_48 Start: 33011, Stop: 32283, Start Num: 45
Candidate Starts for Popcicle_48:
(Start: 33 @33065 has 7 MA's), (Start: 45 @33011 has 359 MA's), (70, 32975), (118, 32789), (130, 32684), (174, 32582), (219, 32465), (223, 32450), (240, 32354),

Gene: PotatoChip_9 Start: 4719, Stop: 5492, Start Num: 48

Candidate Starts for PotatoChip_9:
(Start: 48 @4719 has 36 MA's), (51, 4731), (69, 4755), (76, 4773), (122, 4995), (132, 5079), (133, 5082), (179, 5163), (217, 5259), (222, 5277), (223, 5283), (226, 5301), (227, 5313), (245, 5391), (249, 5403),

Gene: PotatoSplit_54 Start: 33210, Stop: 32503, Start Num: 45
Candidate Starts for PotatoSplit_54:
(Start: 45 @33210 has 359 MA's), (118, 33018), (130, 32913), (137, 32880), (219, 32685), (223, 32670),

Gene: Power_48 Start: 33083, Stop: 32358, Start Num: 45
Candidate Starts for Power_48:
(Start: 45 @33083 has 359 MA's), (119, 32849), (130, 32759), (131, 32756), (145, 32705), (152, 32690), (203, 32612), (213, 32588), (219, 32540), (223, 32525), (225, 32519), (240, 32429),

Gene: Priamo_53 Start: 31850, Stop: 31140, Start Num: 45
Candidate Starts for Priamo_53:
(Start: 45 @31850 has 359 MA's), (74, 31805), (119, 31613), (159, 31466), (203, 31400), (219, 31328), (223, 31313), (225, 31307), (241, 31214),

Gene: Prinashe11_41 Start: 31792, Stop: 31079, Start Num: 50
Candidate Starts for Prinashe11_41:
(Start: 50 @31792 has 204 MA's), (74, 31744), (90, 31714), (127, 31501), (131, 31468), (155, 31402), (176, 31366), (209, 31315), (212, 31306), (219, 31258), (223, 31243), (228, 31207), (240, 31147),

Gene: Priya_49 Start: 33091, Stop: 32387, Start Num: 45
Candidate Starts for Priya_49:
(Start: 45 @33091 has 359 MA's), (74, 33046), (75, 33043), (Start: 77 @33040 has 1 MA's), (118, 32899), (119, 32884), (125, 32836), (130, 32794), (219, 32575), (223, 32560),

Gene: Prudy_49 Start: 33800, Stop: 33069, Start Num: 45
Candidate Starts for Prudy_49:
(Start: 45 @33800 has 359 MA's), (130, 33476), (131, 33473), (145, 33422), (175, 33371), (219, 33257), (223, 33242), (225, 33236),

Gene: Pukovnik_48 Start: 33871, Stop: 33143, Start Num: 45
Candidate Starts for Pukovnik_48:
(Start: 45 @33871 has 359 MA's), (119, 33634), (125, 33586), (130, 33544), (131, 33541), (203, 33397), (219, 33325), (223, 33310), (225, 33304),

Gene: Pumbaa_48 Start: 32726, Stop: 32007, Start Num: 50
Candidate Starts for Pumbaa_48:
(Start: 50 @32726 has 204 MA's), (119, 32498), (125, 32450), (137, 32375), (145, 32354), (147, 32351), (206, 32255), (216, 32201), (219, 32189), (223, 32174), (225, 32168),

Gene: Pupper_63 Start: 21949, Stop: 22686, Start Num: 57
Candidate Starts for Pupper_63:
(Start: 57 @21949 has 10 MA's), (91, 22021), (109, 22090), (144, 22318), (163, 22345), (192, 22384), (225, 22498), (239, 22585), (256, 22672),

Gene: Puppy_51 Start: 32696, Stop: 31968, Start Num: 45
Candidate Starts for Puppy_51:

(19, 32822), (Start: 45 @32696 has 359 MA's), (111, 32516), (118, 32474), (130, 32369), (131, 32366), (174, 32267), (203, 32222), (219, 32150), (223, 32135),

Gene: PurpleHaze_52 Start: 33096, Stop: 32398, Start Num: 45
Candidate Starts for PurpleHaze_52:
(Start: 32 @33156 has 1 MA's), (Start: 45 @33096 has 359 MA's), (118, 32904), (130, 32799), (131, 32796), (149, 32745), (213, 32628), (219, 32580), (223, 32565),

Gene: Qobbit_49 Start: 33053, Stop: 32349, Start Num: 45
Candidate Starts for Qobbit_49:
(Start: 45 @33053 has 359 MA's), (74, 33008), (75, 33005), (Start: 77 @33002 has 1 MA's), (118, 32861), (119, 32846), (125, 32798), (130, 32756), (219, 32537), (223, 32522),

Gene: Quantum_6 Start: 3780, Stop: 2992, Start Num: 56
Candidate Starts for Quantum_6:
(35, 3849), (Start: 56 @3780 has 8 MA's), (63, 3771), (70, 3759), (119, 3513), (124, 3474), (132, 3399), (180, 3309), (193, 3288), (215, 3219), (221, 3195), (223, 3183), (237, 3099), (244, 3075), (257, 2997),

Gene: QueenB2_48 Start: 33043, Stop: 32318, Start Num: 45
Candidate Starts for QueenB2_48:
(Start: 45 @33043 has 359 MA's), (119, 32809), (130, 32719), (131, 32716), (145, 32665), (152, 32650), (203, 32572), (219, 32500), (223, 32485),

Gene: QueenBeesly_49 Start: 33030, Stop: 32305, Start Num: 45
Candidate Starts for QueenBeesly_49:
(Start: 45 @33030 has 359 MA's), (119, 32796), (130, 32706), (131, 32703), (145, 32652), (170, 32607), (175, 32601), (213, 32535), (219, 32487), (223, 32472), (225, 32466), (240, 32376),

Gene: QuinnKiro_47 Start: 33068, Stop: 32286, Start Num: 33
Candidate Starts for QuinnKiro_47:
(Start: 33 @33068 has 7 MA's), (Start: 45 @33014 has 359 MA's), (70, 32978), (118, 32792), (130, 32687), (174, 32585), (219, 32468), (223, 32453), (240, 32357),

Gene: Quokka_47 Start: 32001, Stop: 31303, Start Num: 46
Candidate Starts for Quokka_47:
(Start: 46 @32001 has 1 MA's), (119, 31770), (125, 31722), (127, 31710), (132, 31662), (147, 31623), (208, 31548), (219, 31485), (223, 31470),

Gene: RER2_31 Start: 26042, Stop: 25281, Start Num: 48
Candidate Starts for RER2_31:
(Start: 27 @26114 has 8 MA's), (Start: 48 @26042 has 36 MA's), (125, 25742), (132, 25682), (139, 25661), (159, 25610), (191, 25550), (204, 25535), (223, 25448), (226, 25430), (237, 25364), (240, 25352),

Gene: RGL3_33 Start: 26970, Stop: 26239, Start Num: 48
Candidate Starts for RGL3_33:
(Start: 32 @27033 has 1 MA's), (Start: 48 @26970 has 36 MA's), (52, 26958), (97, 26871), (119, 26727), (132, 26619), (141, 26595), (184, 26520), (198, 26496), (223, 26406), (226, 26388), (228, 26370),

Gene: Rachaly_48 Start: 33353, Stop: 32622, Start Num: 45
Candidate Starts for Rachaly_48:

(Start: 45 @33353 has 359 MA's), (118, 33134), (125, 33071), (130, 33029), (131, 33026), (219, 32810), (223, 32795), (225, 32789), (240, 32699),

Gene: Rahalelujah_49 Start: 32557, Stop: 31856, Start Num: 45
Candidate Starts for Rahalelujah_49:
(Start: 45 @32557 has 359 MA's), (119, 32347), (125, 32299), (130, 32257), (135, 32230), (147, 32200), (150, 32191), (162, 32170), (198, 32113), (219, 32038), (223, 32023),

Gene: Rasputin_38 Start: 29140, Stop: 28379, Start Num: 48
Candidate Starts for Rasputin_38:
(Start: 27 @29212 has 8 MA's), (Start: 48 @29140 has 36 MA's), (119, 28888), (125, 28840), (132, 28780), (139, 28759), (159, 28708), (191, 28648), (204, 28633), (223, 28546), (226, 28528), (237, 28462), (240, 28450),

Gene: Ravana_53 Start: 32182, Stop: 31454, Start Num: 49
Candidate Starts for Ravana_53:
(Start: 49 @32182 has 24 MA's), (94, 32092), (119, 31936), (130, 31846), (165, 31765), (219, 31636), (223, 31621),

Gene: ReMo_51 Start: 31560, Stop: 30862, Start Num: 49
Candidate Starts for ReMo_51:
(Start: 49 @31560 has 24 MA's), (81, 31503), (119, 31344), (130, 31254), (131, 31251), (165, 31173), (219, 31044), (223, 31029),

Gene: Reba_52 Start: 32756, Stop: 32058, Start Num: 45
Candidate Starts for Reba_52:
(Start: 32 @32816 has 1 MA's), (Start: 45 @32756 has 359 MA's), (118, 32564), (130, 32459), (131, 32456), (149, 32405), (213, 32288), (219, 32240), (223, 32225),

Gene: Rebeuca_47 Start: 32788, Stop: 32051, Start Num: 44
Candidate Starts for Rebeuca_47:
(Start: 44 @32788 has 13 MA's), (Start: 50 @32782 has 204 MA's), (119, 32542), (125, 32494), (130, 32452), (131, 32449), (158, 32380), (175, 32347), (206, 32299), (219, 32233), (223, 32218), (225, 32212), (228, 32182), (240, 32122),

Gene: RedRock_51 Start: 34246, Stop: 33512, Start Num: 45
Candidate Starts for RedRock_51:
(Start: 45 @34246 has 359 MA's), (74, 34201), (119, 34009), (125, 33961), (130, 33919), (131, 33916), (145, 33865), (175, 33814), (219, 33700), (223, 33685), (225, 33679), (228, 33649), (241, 33586),

Gene: RedWattleHog_184 Start: 115100, Stop: 115843, Start Num: 55
Candidate Starts for RedWattleHog_184:
(Start: 55 @115100 has 5 MA's), (67, 115115), (75, 115136), (Start: 77 @115139 has 1 MA's), (79, 115142), (101, 115193), (106, 115214), (119, 115328), (143, 115463), (170, 115505), (197, 115538), (216, 115613), (224, 115643), (225, 115646), (227, 115670), (229, 115679), (237, 115724), (239, 115733), (250, 115769),

Gene: Refuge_48 Start: 34235, Stop: 33531, Start Num: 45
Candidate Starts for Refuge_48:
(Start: 45 @34235 has 359 MA's), (118, 34043), (119, 34028), (131, 33935), (216, 33731), (219, 33719), (223, 33704), (225, 33698), (228, 33668),

Gene: Relief_47 Start: 32778, Stop: 32059, Start Num: 50

Candidate Starts for Relief_47:
(Start: 50 @32778 has 204 MA's), (119, 32550), (125, 32502), (145, 32406), (147, 32403), (206, 32307), (216, 32253), (219, 32241), (223, 32226), (225, 32220),

Gene: Remus_52 Start: 31485, Stop: 30787, Start Num: 49
Candidate Starts for Remus_52:
(Start: 49 @31485 has 24 MA's), (81, 31428), (119, 31269), (130, 31179), (131, 31176), (165, 31098), (219, 30969), (223, 30954),

Gene: ResDef_48 Start: 33014, Stop: 32286, Start Num: 45
Candidate Starts for ResDef_48:
(Start: 33 @33068 has 7 MA's), (Start: 45 @33014 has 359 MA's), (70, 32978), (118, 32792), (130, 32687), (174, 32585), (219, 32468), (223, 32453), (240, 32357),

Gene: Retro23_50 Start: 33437, Stop: 32712, Start Num: 45
Candidate Starts for Retro23_50:
(Start: 45 @33437 has 359 MA's), (119, 33203), (130, 33113), (131, 33110), (145, 33059), (213, 32942), (219, 32894), (223, 32879), (225, 32873), (228, 32843),

Gene: RexFury_38 Start: 29201, Stop: 28440, Start Num: 48
Candidate Starts for RexFury_38:
(Start: 27 @29273 has 8 MA's), (Start: 48 @29201 has 36 MA's), (119, 28949), (125, 28901), (132, 28841), (139, 28820), (159, 28769), (191, 28709), (204, 28694), (223, 28607), (226, 28589), (237, 28523), (240, 28511),

Gene: Rhodalysa_38 Start: 29242, Stop: 28409, Start Num: 27
Candidate Starts for Rhodalysa_38:
(Start: 27 @29242 has 8 MA's), (Start: 48 @29170 has 36 MA's), (119, 28918), (125, 28870), (132, 28810), (139, 28789), (150, 28762), (159, 28738), (191, 28678), (204, 28663), (223, 28576), (226, 28558), (237, 28492), (240, 28480),

Gene: RhynO_48 Start: 32587, Stop: 31850, Start Num: 44
Candidate Starts for RhynO_48:
(Start: 44 @32587 has 13 MA's), (Start: 50 @32581 has 204 MA's), (92, 32494), (119, 32341), (125, 32293), (130, 32251), (131, 32248), (147, 32194), (158, 32179), (175, 32146), (206, 32098), (219, 32032), (223, 32017), (240, 31921),

Gene: Rifter_52 Start: 31639, Stop: 30911, Start Num: 45
Candidate Starts for Rifter_52:
(Start: 45 @31639 has 359 MA's), (74, 31594), (119, 31402), (125, 31354), (130, 31312), (131, 31309), (155, 31243), (180, 31207), (210, 31156), (213, 31147), (219, 31099), (223, 31084), (241, 30985),

Gene: RockieBear_48 Start: 32781, Stop: 32062, Start Num: 50
Candidate Starts for RockieBear_48:
(Start: 50 @32781 has 204 MA's), (119, 32553), (125, 32505), (137, 32430), (145, 32409), (147, 32406), (206, 32310), (216, 32256), (219, 32244), (223, 32229), (225, 32223),

Gene: Rocksand_48 Start: 32777, Stop: 32058, Start Num: 50
Candidate Starts for Rocksand_48:
(Start: 50 @32777 has 204 MA's), (119, 32549), (125, 32501), (137, 32426), (145, 32405), (147, 32402), (206, 32306), (216, 32252), (219, 32240), (223, 32225), (225, 32219),

Gene: Rockstar_49 Start: 32505, Stop: 31771, Start Num: 45

Candidate Starts for Rockstar_49:
(Start: 45 @32505 has 359 MA's), (118, 32277), (130, 32172), (131, 32169), (147, 32115), (174, 32070), (203, 32025), (219, 31953), (223, 31938), (240, 31842),

Gene: Roimos_49 Start: 32873, Stop: 32145, Start Num: 45
Candidate Starts for Roimos_49:
(Start: 45 @32873 has 359 MA's), (70, 32837), (111, 32693), (118, 32651), (130, 32546), (131, 32543), (174, 32444), (219, 32327), (223, 32312), (225, 32306),

Gene: Roksolana_52 Start: 32130, Stop: 31396, Start Num: 45
Candidate Starts for Roksolana_52:
(Start: 45 @32130 has 359 MA's), (74, 32085), (119, 31893), (130, 31803), (131, 31800), (145, 31749), (198, 31659), (203, 31656), (213, 31632), (219, 31584), (223, 31569), (225, 31563), (241, 31470),

Gene: Romney_48 Start: 32778, Stop: 32059, Start Num: 50
Candidate Starts for Romney_48:
(Start: 50 @32778 has 204 MA's), (119, 32550), (125, 32502), (137, 32427), (145, 32406), (147, 32403), (206, 32307), (216, 32253), (219, 32241), (223, 32226), (225, 32220),

Gene: Roosevelt_47 Start: 32783, Stop: 32064, Start Num: 50
Candidate Starts for Roosevelt_47:
(Start: 50 @32783 has 204 MA's), (119, 32555), (125, 32507), (137, 32432), (145, 32411), (147, 32408), (206, 32312), (216, 32258), (219, 32246), (223, 32231), (225, 32225),

Gene: Rosa24_47 Start: 32812, Stop: 32093, Start Num: 50
Candidate Starts for Rosa24_47:
(Start: 50 @32812 has 204 MA's), (84, 32749), (119, 32584), (125, 32536), (137, 32461), (145, 32440), (147, 32437), (206, 32341), (216, 32287), (219, 32275), (223, 32260), (225, 32254),

Gene: Rosalind_51 Start: 31718, Stop: 30993, Start Num: 49
Candidate Starts for Rosalind_51:
(Start: 49 @31718 has 24 MA's), (87, 31640), (92, 31628), (119, 31478), (130, 31388), (131, 31385), (136, 31358), (167, 31301), (219, 31175), (223, 31160),

Gene: Rowa_46 Start: 33718, Stop: 34437, Start Num: 41
Candidate Starts for Rowa_46:
(34, 33679), (Start: 41 @33718 has 1 MA's), (Start: 50 @33733 has 204 MA's), (98, 33829), (119, 33961), (120, 33964), (123, 33991), (129, 34042), (130, 34054), (131, 34057), (132, 34072), (208, 34195), (216, 34246), (223, 34273), (224, 34276), (225, 34279), (228, 34309), (240, 34369), (242, 34375), (253, 34423),

Gene: Rowdy_51 Start: 32495, Stop: 31758, Start Num: 44
Candidate Starts for Rowdy_51:
(Start: 44 @32495 has 13 MA's), (Start: 50 @32489 has 204 MA's), (92, 32402), (119, 32249), (125, 32201), (130, 32159), (131, 32156), (147, 32102), (158, 32087), (175, 32054), (206, 32006), (219, 31940), (223, 31925), (240, 31829),

Gene: Ruin_48 Start: 32774, Stop: 32055, Start Num: 50
Candidate Starts for Ruin_48:
(Start: 50 @32774 has 204 MA's), (119, 32546), (125, 32498), (137, 32423), (145, 32402), (147, 32399), (206, 32303), (216, 32249), (219, 32237), (223, 32222), (225, 32216),

Gene: Rummer_51 Start: 33237, Stop: 32530, Start Num: 45

Candidate Starts for Rummer_51:
(Start: 45 @33237 has 359 MA's), (118, 33045), (219, 32712), (223, 32697),

Gene: RunningOnE_22 Start: 9918, Stop: 9211, Start Num: 50
Candidate Starts for RunningOnE_22:
(Start: 50 @9918 has 204 MA's), (74, 9873), (130, 9597), (131, 9594), (203, 9471), (222, 9390), (223, 9384), (232, 9327), (236, 9303), (240, 9288),

Gene: RyeScarlet_49 Start: 33048, Stop: 32344, Start Num: 45
Candidate Starts for RyeScarlet_49:
(Start: 45 @33048 has 359 MA's), (74, 33003), (75, 33000), (Start: 77 @32997 has 1 MA's), (118, 32856), (119, 32841), (125, 32793), (130, 32751), (219, 32532), (223, 32517),

Gene: SCentae_62 Start: 21703, Stop: 22440, Start Num: 57
Candidate Starts for SCentae_62:
(Start: 57 @21703 has 10 MA's), (91, 21775), (109, 21844), (144, 22072), (163, 22099), (192, 22138), (225, 22252), (239, 22339), (256, 22426),

Gene: Sabertooth_48 Start: 32783, Stop: 32064, Start Num: 50
Candidate Starts for Sabertooth_48:
(Start: 50 @32783 has 204 MA's), (119, 32555), (125, 32507), (137, 32432), (145, 32411), (147, 32408), (206, 32312), (216, 32258), (219, 32246), (223, 32231), (225, 32225),

Gene: Sabia_52 Start: 33200, Stop: 32493, Start Num: 45
Candidate Starts for Sabia_52:
(Start: 45 @33200 has 359 MA's), (118, 33008), (130, 32903), (137, 32870), (219, 32675), (223, 32660),

Gene: Sabinator_51 Start: 33205, Stop: 32498, Start Num: 45
Candidate Starts for Sabinator_51:
(Start: 45 @33205 has 359 MA's), (118, 33013), (130, 32908), (137, 32875), (219, 32680), (223, 32665),

Gene: Sachima_49 Start: 32958, Stop: 32254, Start Num: 45
Candidate Starts for Sachima_49:
(Start: 45 @32958 has 359 MA's), (74, 32913), (75, 32910), (Start: 77 @32907 has 1 MA's), (118, 32766), (119, 32751), (125, 32703), (130, 32661), (213, 32490), (219, 32442), (223, 32427),

Gene: Salz_48 Start: 32160, Stop: 31447, Start Num: 45
Candidate Starts for Salz_48:
(Start: 45 @32160 has 359 MA's), (Start: 77 @32109 has 1 MA's), (125, 31887), (130, 31845), (195, 31704), (213, 31674), (216, 31638), (219, 31626), (223, 31611), (225, 31605), (240, 31515),

Gene: Samora_42 Start: 32452, Stop: 33144, Start Num: 50
Candidate Starts for Samora_42:
(Start: 50 @32452 has 204 MA's), (64, 32479), (119, 32668), (121, 32686), (131, 32764), (223, 32977), (225, 32983), (240, 33073),

Gene: Sarkar_6 Start: 3780, Stop: 2992, Start Num: 56
Candidate Starts for Sarkar_6:
(35, 3849), (Start: 56 @3780 has 8 MA's), (63, 3771), (70, 3759), (119, 3513), (124, 3474), (132, 3399), (180, 3309), (193, 3288), (215, 3219), (221, 3195), (223, 3183), (237, 3099), (244, 3075), (257, 2997),

Gene: Saskia_50 Start: 32159, Stop: 31440, Start Num: 45
Candidate Starts for Saskia_50:
(Start: 45 @32159 has 359 MA's), (74, 32114), (119, 31922), (125, 31874), (130, 31832), (131, 31829), (155, 31763), (180, 31727), (210, 31676), (213, 31667), (219, 31619), (223, 31604), (240, 31508),

Gene: Satis_6 Start: 3776, Stop: 2988, Start Num: 56
Candidate Starts for Satis_6:
(35, 3845), (Start: 56 @3776 has 8 MA's), (63, 3767), (70, 3755), (119, 3509), (124, 3470), (132, 3395), (180, 3305), (193, 3284), (215, 3215), (221, 3191), (223, 3179), (237, 3095), (244, 3071), (257, 2993),

Gene: SaturnRing_50 Start: 33076, Stop: 32348, Start Num: 45
Candidate Starts for SaturnRing_50:
(Start: 45 @33076 has 359 MA's), (111, 32896), (118, 32854), (130, 32749), (131, 32746), (174, 32647), (203, 32602), (219, 32530), (223, 32515),

Gene: Scamp_48 Start: 32783, Stop: 32064, Start Num: 50
Candidate Starts for Scamp_48:
(Start: 50 @32783 has 204 MA's), (119, 32555), (125, 32507), (137, 32432), (145, 32411), (147, 32408), (206, 32312), (216, 32258), (219, 32246), (223, 32231), (225, 32225),

Gene: Scherzo_49 Start: 33262, Stop: 32558, Start Num: 45
Candidate Starts for Scherzo_49:
(Start: 45 @33262 has 359 MA's), (74, 33217), (75, 33214), (Start: 77 @33211 has 1 MA's), (118, 33070), (119, 33055), (125, 33007), (130, 32965), (219, 32746), (223, 32731),

Gene: Scorpia_45 Start: 31749, Stop: 31045, Start Num: 50
Candidate Starts for Scorpia_45:
(Start: 50 @31749 has 204 MA's), (117, 31554), (118, 31548), (125, 31485), (130, 31443), (131, 31440), (138, 31407), (174, 31341), (213, 31272), (219, 31224), (223, 31209),

Gene: Scout_49 Start: 32204, Stop: 31476, Start Num: 45
Candidate Starts for Scout_49:
(Start: 45 @32204 has 359 MA's), (70, 32168), (111, 32024), (118, 31982), (130, 31877), (131, 31874), (174, 31775), (219, 31658), (223, 31643), (225, 31637),

Gene: Sebastisaurus_42 Start: 32978, Stop: 33688, Start Num: 50
Candidate Starts for Sebastisaurus_42:
(Start: 50 @32978 has 204 MA's), (73, 33020), (74, 33023), (85, 33047), (93, 33062), (115, 33161), (123, 33224), (124, 33233), (131, 33290), (132, 33305), (140, 33329), (164, 33380), (170, 33386), (187, 33416), (223, 33524), (224, 33527), (225, 33530), (228, 33560), (248, 33641), (251, 33665),

Gene: SemperFi_50 Start: 33298, Stop: 32573, Start Num: 45
Candidate Starts for SemperFi_50:
(Start: 45 @33298 has 359 MA's), (119, 33064), (130, 32974), (131, 32971), (145, 32920), (170, 32875), (175, 32869), (213, 32803), (219, 32755), (223, 32740), (225, 32734), (240, 32644),

Gene: SenorClean_48 Start: 32781, Stop: 32062, Start Num: 50
Candidate Starts for SenorClean_48:
(Start: 50 @32781 has 204 MA's), (119, 32553), (125, 32505), (137, 32430), (145, 32409), (147, 32406), (206, 32310), (216, 32256), (219, 32244), (223, 32229), (225, 32223),

Gene: Sephiroth_106 Start: 60622, Stop: 61335, Start Num: 57
Candidate Starts for Sephiroth_106:

(Start: 57 @60622 has 10 MA's), (91, 60685), (107, 60730), (108, 60733), (119, 60841), (124, 60880), (128, 60907), (129, 60922), (142, 60982), (173, 61024), (202, 61063), (216, 61120), (227, 61177), (229, 61186), (234, 61222), (247, 61261), (250, 61276), (254, 61294),

Gene: Serenity_49 Start: 32189, Stop: 31464, Start Num: 45
Candidate Starts for Serenity_49:
(Start: 45 @32189 has 359 MA's), (119, 31958), (125, 31910), (127, 31898), (132, 31850), (208, 31709), (219, 31646), (223, 31631),

Gene: Severus_45 Start: 31683, Stop: 30961, Start Num: 50
Candidate Starts for Severus_45:
(Start: 44 @31689 has 13 MA's), (Start: 50 @31683 has 204 MA's), (119, 31452), (125, 31404), (130, 31362), (131, 31359), (139, 31323), (150, 31296), (219, 31143), (223, 31128), (240, 31032),

Gene: Shaka_48 Start: 32778, Stop: 32059, Start Num: 50
Candidate Starts for Shaka_48:
(Start: 50 @32778 has 204 MA's), (119, 32550), (125, 32502), (137, 32427), (145, 32406), (147, 32403), (206, 32307), (216, 32253), (219, 32241), (223, 32226), (225, 32220),

Gene: Sham4_49 Start: 32188, Stop: 31475, Start Num: 45
Candidate Starts for Sham4_49:
(Start: 45 @32188 has 359 MA's), (Start: 77 @32137 has 1 MA's), (125, 31915), (130, 31873), (195, 31732), (213, 31702), (216, 31666), (219, 31654), (223, 31639), (225, 31633), (240, 31543),

Gene: Shapes_51 Start: 32495, Stop: 31758, Start Num: 44
Candidate Starts for Shapes_51:
(Start: 44 @32495 has 13 MA's), (Start: 50 @32489 has 204 MA's), (92, 32402), (119, 32249), (125, 32201), (130, 32159), (131, 32156), (147, 32102), (158, 32087), (175, 32054), (206, 32006), (219, 31940), (223, 31925), (240, 31829),

Gene: Shawty_40 Start: 31544, Stop: 32257, Start Num: 50
Candidate Starts for Shawty_40:
(Start: 50 @31544 has 204 MA's), (119, 31772), (121, 31790), (124, 31811), (131, 31868), (132, 31883), (141, 31910), (150, 31931), (158, 31940), (187, 31976), (223, 32084), (224, 32087), (225, 32090), (228, 32120), (245, 32192), (248, 32201),

Gene: ShayRa_53 Start: 31764, Stop: 31066, Start Num: 49
Candidate Starts for ShayRa_53:
(Start: 49 @31764 has 24 MA's), (81, 31707), (119, 31548), (130, 31458), (131, 31455), (165, 31377), (219, 31248), (223, 31233),

Gene: SheaKeira_48 Start: 32614, Stop: 31907, Start Num: 45
Candidate Starts for SheaKeira_48:
(Start: 45 @32614 has 359 MA's), (118, 32419), (119, 32404), (125, 32356), (135, 32287), (206, 32161), (219, 32095), (223, 32080), (240, 31984),

Gene: Sheen_49 Start: 35012, Stop: 34317, Start Num: 50
Candidate Starts for Sheen_49:
(20, 35141), (Start: 50 @35012 has 204 MA's), (72, 34970), (75, 34964), (119, 34808), (160, 34637), (173, 34616), (188, 34589), (219, 34499), (223, 34484), (247, 34370),

Gene: SheldonCooper_50 Start: 33204, Stop: 32485, Start Num: 50
Candidate Starts for SheldonCooper_50:

(Start: 50 @33204 has 204 MA's), (74, 33159), (119, 32976), (125, 32928), (145, 32832), (147, 32829), (216, 32679), (219, 32667), (223, 32652), (225, 32646),

Gene: Shep_49 Start: 31918, Stop: 31190, Start Num: 45
Candidate Starts for Shep_49:
(Start: 45 @31918 has 359 MA's), (70, 31882), (111, 31738), (118, 31696), (130, 31591), (131, 31588), (174, 31489), (219, 31372), (223, 31357), (225, 31351),

Gene: Shuman_38 Start: 29255, Stop: 28422, Start Num: 27
Candidate Starts for Shuman_38:
(Start: 27 @29255 has 8 MA's), (Start: 48 @29183 has 36 MA's), (119, 28931), (125, 28883), (132, 28823), (139, 28802), (159, 28751), (191, 28691), (204, 28676), (223, 28589), (226, 28571), (237, 28505), (240, 28493),

Gene: Shygu2_47 Start: 32757, Stop: 32038, Start Num: 50
Candidate Starts for Shygu2_47:
(Start: 50 @32757 has 204 MA's), (119, 32529), (131, 32436), (145, 32385), (147, 32382), (206, 32286), (208, 32283), (219, 32220), (223, 32205),

Gene: Skadoosh_49 Start: 32778, Stop: 32059, Start Num: 50
Candidate Starts for Skadoosh_49:
(Start: 50 @32778 has 204 MA's), (119, 32550), (125, 32502), (137, 32427), (145, 32406), (147, 32403), (206, 32307), (216, 32253), (219, 32241), (223, 32226), (225, 32220),

Gene: Skipitt_47 Start: 32775, Stop: 32056, Start Num: 50
Candidate Starts for Skipitt_47:
(Start: 50 @32775 has 204 MA's), (119, 32547), (125, 32499), (137, 32424), (145, 32403), (147, 32400), (206, 32304), (216, 32250), (219, 32238), (223, 32223), (225, 32217),

Gene: Sknot_49 Start: 33120, Stop: 32392, Start Num: 45
Candidate Starts for Sknot_49:
(Start: 45 @33120 has 359 MA's), (119, 32883), (125, 32835), (130, 32793), (131, 32790), (213, 32622), (219, 32574), (223, 32559), (225, 32553),

Gene: Smeagan_52 Start: 33750, Stop: 33025, Start Num: 45
Candidate Starts for Smeagan_52:
(Start: 45 @33750 has 359 MA's), (119, 33516), (130, 33426), (131, 33423), (175, 33321), (213, 33255), (219, 33207), (223, 33192), (225, 33186),

Gene: SmellyB_51 Start: 32085, Stop: 31348, Start Num: 45
Candidate Starts for SmellyB_51:
(Start: 45 @32085 has 359 MA's), (74, 32040), (119, 31848), (132, 31740), (147, 31698), (198, 31611), (219, 31536), (223, 31521), (225, 31515), (241, 31422),

Gene: SnapTap_49 Start: 33109, Stop: 32384, Start Num: 45
Candidate Starts for SnapTap_49:
(Start: 45 @33109 has 359 MA's), (119, 32875), (130, 32785), (131, 32782), (145, 32731), (152, 32716), (203, 32638), (213, 32614), (219, 32566), (223, 32551), (225, 32545), (240, 32455),

Gene: Snape_49 Start: 32186, Stop: 31473, Start Num: 45
Candidate Starts for Snape_49:
(Start: 45 @32186 has 359 MA's), (Start: 77 @32135 has 1 MA's), (125, 31913), (130, 31871), (195, 31730), (213, 31700), (216, 31664), (219, 31652), (223, 31637), (225, 31631), (240, 31541),

Gene: Snickers_52 Start: 33180, Stop: 32473, Start Num: 45
Candidate Starts for Snickers_52:
(Start: 45 @33180 has 359 MA's), (118, 32988), (130, 32883), (137, 32850), (219, 32655), (223, 32640),

Gene: SoYo_52 Start: 33118, Stop: 32411, Start Num: 45
Candidate Starts for SoYo_52:
(Start: 45 @33118 has 359 MA's), (118, 32926), (130, 32821), (137, 32788), (219, 32593), (223, 32578),

Gene: SoilDragon_52 Start: 32654, Stop: 31947, Start Num: 45
Candidate Starts for SoilDragon_52:
(Start: 45 @32654 has 359 MA's), (118, 32462), (130, 32357), (219, 32129), (223, 32114),

Gene: Soshari_54 Start: 33233, Stop: 32526, Start Num: 45
Candidate Starts for Soshari_54:
(Start: 45 @33233 has 359 MA's), (118, 33041), (219, 32708), (223, 32693),

Gene: Soups_52 Start: 31793, Stop: 31065, Start Num: 49
Candidate Starts for Soups_52:
(Start: 49 @31793 has 24 MA's), (94, 31703), (119, 31547), (130, 31457), (131, 31454), (165, 31376), (219, 31247), (223, 31232),

Gene: Sparxx_49 Start: 32776, Stop: 32057, Start Num: 50
Candidate Starts for Sparxx_49:
(Start: 50 @32776 has 204 MA's), (119, 32548), (125, 32500), (137, 32425), (145, 32404), (147, 32401), (206, 32305), (216, 32251), (219, 32239), (223, 32224), (225, 32218),

Gene: Spike509_52 Start: 33234, Stop: 32527, Start Num: 45
Candidate Starts for Spike509_52:
(Start: 45 @33234 has 359 MA's), (118, 33042), (219, 32709), (223, 32694),

Gene: Spino_47 Start: 32781, Stop: 32062, Start Num: 50
Candidate Starts for Spino_47:
(Start: 50 @32781 has 204 MA's), (119, 32553), (125, 32505), (137, 32430), (145, 32409), (147, 32406), (206, 32310), (216, 32256), (219, 32244), (223, 32229), (225, 32223),

Gene: Spouty_49 Start: 33090, Stop: 32386, Start Num: 45
Candidate Starts for Spouty_49:
(Start: 45 @33090 has 359 MA's), (74, 33045), (75, 33042), (Start: 77 @33039 has 1 MA's), (118, 32898), (119, 32883), (125, 32835), (130, 32793), (219, 32574), (223, 32559),

Gene: StCroix_38 Start: 29183, Stop: 28422, Start Num: 48
Candidate Starts for StCroix_38:
(Start: 27 @29255 has 8 MA's), (Start: 48 @29183 has 36 MA's), (119, 28931), (125, 28883), (132, 28823), (139, 28802), (150, 28775), (159, 28751), (191, 28691), (204, 28676), (223, 28589), (226, 28571), (237, 28505), (240, 28493),

Gene: Stagni_52 Start: 33209, Stop: 32502, Start Num: 45
Candidate Starts for Stagni_52:
(Start: 45 @33209 has 359 MA's), (118, 33017), (130, 32912), (137, 32879), (219, 32684), (223, 32669),

Gene: StarStuff_51 Start: 32825, Stop: 32118, Start Num: 45
Candidate Starts for StarStuff_51:
(Start: 45 @32825 has 359 MA's), (118, 32630), (119, 32615), (130, 32525), (131, 32522), (141, 32480), (219, 32306), (223, 32291), (240, 32195),

Gene: Stasia_47 Start: 32652, Stop: 31936, Start Num: 50
Candidate Starts for Stasia_47:
(Start: 50 @32652 has 204 MA's), (74, 32607), (119, 32424), (125, 32376), (130, 32334), (131, 32331), (173, 32235), (174, 32232), (217, 32124), (219, 32115), (223, 32100),

Gene: SteMason_47 Start: 32778, Stop: 32059, Start Num: 50
Candidate Starts for SteMason_47:
(Start: 50 @32778 has 204 MA's), (119, 32550), (125, 32502), (137, 32427), (145, 32406), (147, 32403), (206, 32307), (216, 32253), (219, 32241), (223, 32226), (225, 32220),

Gene: Steamy_45 Start: 32519, Stop: 31815, Start Num: 45
Candidate Starts for Steamy_45:
(Start: 45 @32519 has 359 MA's), (118, 32327), (119, 32312), (137, 32189), (178, 32111), (216, 32015), (219, 32003), (223, 31988),

Gene: StepMih_52 Start: 33200, Stop: 32493, Start Num: 45
Candidate Starts for StepMih_52:
(Start: 45 @33200 has 359 MA's), (118, 33008), (130, 32903), (137, 32870), (219, 32675), (223, 32660),

Gene: Stickynote_9 Start: 4738, Stop: 5511, Start Num: 48
Candidate Starts for Stickynote_9:
(Start: 48 @4738 has 36 MA's), (51, 4750), (69, 4774), (76, 4792), (122, 5014), (133, 5101), (196, 5212), (223, 5302), (226, 5320), (227, 5332), (245, 5410), (249, 5422),

Gene: Stormageddon_185 Start: 116065, Stop: 116808, Start Num: 55
Candidate Starts for Stormageddon_185:
(Start: 55 @116065 has 5 MA's), (67, 116080), (75, 116101), (Start: 77 @116104 has 1 MA's), (79, 116107), (101, 116158), (106, 116179), (119, 116293), (143, 116428), (170, 116470), (197, 116503), (216, 116578), (224, 116608), (225, 116611), (227, 116635), (229, 116644), (237, 116689), (239, 116698), (250, 116734),

Gene: Strosahl_52 Start: 31485, Stop: 30787, Start Num: 49
Candidate Starts for Strosahl_52:
(Start: 49 @31485 has 24 MA's), (81, 31428), (119, 31269), (130, 31179), (131, 31176), (165, 31098), (219, 30969), (223, 30954),

Gene: Sultana_48 Start: 32781, Stop: 32062, Start Num: 50
Candidate Starts for Sultana_48:
(Start: 50 @32781 has 204 MA's), (119, 32553), (125, 32505), (137, 32430), (145, 32409), (147, 32406), (206, 32310), (216, 32256), (219, 32244), (223, 32229), (225, 32223),

Gene: SuperAwesome_51 Start: 32093, Stop: 31359, Start Num: 45
Candidate Starts for SuperAwesome_51:
(Start: 45 @32093 has 359 MA's), (74, 32048), (92, 32012), (119, 31856), (130, 31766), (131, 31763), (145, 31712), (198, 31622), (203, 31619), (213, 31595), (219, 31547), (223, 31532), (225, 31526), (241, 31433),

Gene: SuperCallie99_50 Start: 31966, Stop: 31232, Start Num: 45
Candidate Starts for SuperCallie99_50:
(Start: 45 @31966 has 359 MA's), (74, 31921), (119, 31729), (125, 31681), (130, 31639), (131, 31636), (145, 31585), (198, 31495), (203, 31492), (213, 31468), (219, 31420), (223, 31405), (225, 31399), (241, 31306),

Gene: Superchunk_48 Start: 31632, Stop: 30928, Start Num: 45
Candidate Starts for Superchunk_48:
(Start: 45 @31632 has 359 MA's), (107, 31536), (130, 31335), (131, 31332), (141, 31290), (154, 31269), (178, 31224), (219, 31116), (223, 31101), (224, 31098), (225, 31095), (240, 31005),

Gene: Swann_38 Start: 29170, Stop: 28409, Start Num: 48
Candidate Starts for Swann_38:
(Start: 27 @29242 has 8 MA's), (Start: 48 @29170 has 36 MA's), (119, 28918), (125, 28870), (132, 28810), (139, 28789), (159, 28738), (191, 28678), (204, 28663), (223, 28576), (226, 28558), (237, 28492), (240, 28480),

Gene: SweetiePie_49 Start: 33238, Stop: 32513, Start Num: 45
Candidate Starts for SweetiePie_49:
(Start: 45 @33238 has 359 MA's), (119, 33004), (126, 32953), (130, 32914), (131, 32911), (145, 32860), (170, 32815), (175, 32809), (213, 32743), (219, 32695), (223, 32680), (225, 32674), (240, 32584),

Gene: SwirlSquare_52 Start: 32323, Stop: 31595, Start Num: 45
Candidate Starts for SwirlSquare_52:
(Start: 45 @32323 has 359 MA's), (119, 32092), (125, 32044), (130, 32002), (131, 31999), (141, 31957), (175, 31897), (178, 31891), (216, 31795), (219, 31783), (223, 31768), (228, 31732), (240, 31672),

Gene: Swirley_44 Start: 32293, Stop: 31580, Start Num: 50
Candidate Starts for Swirley_44:
(Start: 50 @32293 has 204 MA's), (74, 32245), (90, 32215), (127, 32002), (130, 31972), (131, 31969), (155, 31903), (176, 31867), (209, 31816), (212, 31807), (219, 31759), (223, 31744), (228, 31708), (240, 31648),

Gene: Switzerland_52 Start: 31898, Stop: 31173, Start Num: 49
Candidate Starts for Switzerland_52:
(Start: 49 @31898 has 24 MA's), (87, 31820), (92, 31808), (119, 31658), (130, 31568), (131, 31565), (136, 31538), (167, 31481), (219, 31355), (223, 31340),

Gene: SydNat_43 Start: 32489, Stop: 31770, Start Num: 50
Candidate Starts for SydNat_43:
(Start: 50 @32489 has 204 MA's), (74, 32441), (118, 32273), (131, 32165), (216, 31961), (219, 31949), (223, 31934), (228, 31898), (239, 31841),

Gene: Syleon_110 Start: 61211, Stop: 61927, Start Num: 57
Candidate Starts for Syleon_110:
(Start: 57 @61211 has 10 MA's), (71, 61229), (91, 61274), (107, 61319), (108, 61322), (119, 61430), (124, 61469), (129, 61511), (142, 61571), (202, 61652), (216, 61709), (225, 61742), (227, 61766), (229, 61775), (234, 61811), (247, 61850), (250, 61865), (254, 61883),

Gene: TG1_37 Start: 30675, Stop: 31379, Start Num: 50

Candidate Starts for TG1_37:
(24, 30573), (38, 30639), (Start: 41 @30660 has 1 MA's), (Start: 50 @30675 has 204 MA's), (98, 30774), (120, 30906), (121, 30921), (131, 30999), (223, 31215), (225, 31221), (232, 31272), (239, 31308), (251, 31356),

Gene: TNguyen7_50 Start: 33043, Stop: 32315, Start Num: 45
Candidate Starts for TNguyen7_50:
(19, 33169), (Start: 45 @33043 has 359 MA's), (111, 32863), (118, 32821), (130, 32716), (131, 32713), (174, 32614), (203, 32569), (219, 32497), (223, 32482),

Gene: TWAMP_38 Start: 29242, Stop: 28409, Start Num: 27
Candidate Starts for TWAMP_38:
(Start: 27 @29242 has 8 MA's), (Start: 48 @29170 has 36 MA's), (119, 28918), (125, 28870), (132, 28810), (139, 28789), (150, 28762), (159, 28738), (191, 28678), (204, 28663), (223, 28576), (226, 28558), (237, 28492), (240, 28480),

Gene: Tailonex_36 Start: 31505, Stop: 30813, Start Num: 57
Candidate Starts for Tailonex_36:
(Start: 50 @31523 has 204 MA's), (Start: 57 @31505 has 10 MA's), (74, 31475), (89, 31442), (95, 31427), (125, 31229), (129, 31199), (131, 31184), (132, 31169), (181, 31082), (186, 31076), (220, 30977), (225, 30959), (228, 30929), (239, 30872), (254, 30824),

Gene: Takoda_38 Start: 29143, Stop: 28382, Start Num: 48
Candidate Starts for Takoda_38:
(Start: 27 @29215 has 8 MA's), (Start: 48 @29143 has 36 MA's), (119, 28891), (125, 28843), (132, 28783), (139, 28762), (150, 28735), (159, 28711), (191, 28651), (204, 28636), (223, 28549), (226, 28531), (240, 28453),

Gene: Talos_164 Start: 85603, Stop: 86307, Start Num: 50
Candidate Starts for Talos_164:
(29, 85528), (39, 85564), (Start: 50 @85603 has 204 MA's), (74, 85654), (103, 85705), (110, 85765), (124, 85873), (127, 85897), (129, 85915), (134, 85951), (157, 85996), (161, 86011), (204, 86056), (217, 86119), (228, 86179), (235, 86221),

Gene: Taquarus_48 Start: 32784, Stop: 32065, Start Num: 50
Candidate Starts for Taquarus_48:
(Start: 50 @32784 has 204 MA's), (119, 32556), (125, 32508), (137, 32433), (145, 32412), (147, 32409), (206, 32313), (216, 32259), (219, 32247), (223, 32232), (225, 32226),

Gene: TarsusIV_48 Start: 33069, Stop: 32335, Start Num: 45
Candidate Starts for TarsusIV_48:
(Start: 45 @33069 has 359 MA's), (119, 32826), (125, 32778), (130, 32736), (131, 32733), (213, 32565), (219, 32517), (223, 32502), (225, 32496), (240, 32406),

Gene: Tarynearal_40 Start: 31735, Stop: 31022, Start Num: 50
Candidate Starts for Tarynearal_40:
(Start: 50 @31735 has 204 MA's), (74, 31687), (90, 31657), (127, 31444), (131, 31411), (155, 31345), (176, 31309), (209, 31258), (212, 31249), (219, 31201), (223, 31186), (228, 31150), (240, 31090),

Gene: Taurus_53 Start: 33206, Stop: 32499, Start Num: 45
Candidate Starts for Taurus_53:
(Start: 45 @33206 has 359 MA's), (118, 33014), (130, 32909), (137, 32876), (219, 32681), (223, 32666),

Gene: Temprado_52 Start: 32237, Stop: 31509, Start Num: 45
Candidate Starts for Temprado_52:
(Start: 45 @32237 has 359 MA's), (74, 32192), (119, 32000), (125, 31952), (130, 31910), (131, 31907), (155, 31841), (180, 31805), (210, 31754), (213, 31745), (219, 31697), (223, 31682), (241, 31583),

Gene: Terrific_50 Start: 33474, Stop: 32746, Start Num: 45
Candidate Starts for Terrific_50:
(Start: 45 @33474 has 359 MA's), (119, 33237), (125, 33189), (130, 33147), (131, 33144), (213, 32976), (219, 32928), (223, 32913), (225, 32907),

Gene: Texage_47 Start: 33069, Stop: 32287, Start Num: 33
Candidate Starts for Texage_47:
(Start: 33 @33069 has 7 MA's), (Start: 45 @33015 has 359 MA's), (70, 32979), (118, 32793), (130, 32688), (174, 32586), (219, 32469), (223, 32454), (240, 32358),

Gene: Thanksgivukkah_47 Start: 32779, Stop: 32060, Start Num: 50
Candidate Starts for Thanksgivukkah_47:
(Start: 50 @32779 has 204 MA's), (119, 32551), (125, 32503), (137, 32428), (145, 32407), (147, 32404), (206, 32308), (216, 32254), (219, 32242), (223, 32227), (225, 32221),

Gene: Theia_39 Start: 31764, Stop: 31045, Start Num: 50
Candidate Starts for Theia_39:
(Start: 50 @31764 has 204 MA's), (Start: 77 @31710 has 1 MA's), (90, 31686), (103, 31662), (120, 31530), (147, 31386), (208, 31287), (219, 31224), (223, 31209), (228, 31173), (239, 31116),

Gene: Tiffany_52 Start: 33092, Stop: 32385, Start Num: 45
Candidate Starts for Tiffany_52:
(Start: 45 @33092 has 359 MA's), (118, 32900), (130, 32795), (137, 32762), (219, 32567), (223, 32552),

Gene: Tiger_40 Start: 31297, Stop: 30578, Start Num: 50
Candidate Starts for Tiger_40:
(Start: 50 @31297 has 204 MA's), (Start: 77 @31243 has 1 MA's), (90, 31219), (103, 31195), (120, 31063), (147, 30919), (208, 30820), (219, 30757), (223, 30742), (228, 30706), (239, 30649),

Gene: Timothy_49 Start: 32163, Stop: 31450, Start Num: 45
Candidate Starts for Timothy_49:
(Start: 45 @32163 has 359 MA's), (Start: 77 @32112 has 1 MA's), (125, 31890), (130, 31848), (195, 31707), (213, 31677), (216, 31641), (217, 31638), (219, 31629), (223, 31614), (225, 31608), (240, 31518),

Gene: TinaFeyge_48 Start: 32776, Stop: 32057, Start Num: 50
Candidate Starts for TinaFeyge_48:
(Start: 50 @32776 has 204 MA's), (119, 32548), (125, 32500), (137, 32425), (145, 32404), (147, 32401), (206, 32305), (216, 32251), (217, 32248), (219, 32239), (223, 32224), (225, 32218),

Gene: TinyPebbles_51 Start: 33239, Stop: 32532, Start Num: 45
Candidate Starts for TinyPebbles_51:
(Start: 45 @33239 has 359 MA's), (118, 33047), (219, 32714), (223, 32699),

Gene: TinyTimmy_49 Start: 32206, Stop: 31493, Start Num: 45
Candidate Starts for TinyTimmy_49:

(Start: 45 @32206 has 359 MA's), (Start: 77 @32155 has 1 MA's), (125, 31933), (130, 31891), (195, 31750), (213, 31720), (216, 31684), (219, 31672), (223, 31657), (225, 31651), (240, 31561),

Gene: Tinybot_47 Start: 32808, Stop: 32089, Start Num: 50
Candidate Starts for Tinybot_47:
(Start: 50 @32808 has 204 MA's), (119, 32580), (125, 32532), (137, 32457), (145, 32436), (147, 32433), (206, 32337), (216, 32283), (219, 32271), (223, 32256), (225, 32250),

Gene: TipsytheTRex_45 Start: 32262, Stop: 31537, Start Num: 45
Candidate Starts for TipsytheTRex_45:
(Start: 45 @32262 has 359 MA's), (119, 32031), (125, 31983), (132, 31923), (208, 31782), (219, 31719), (223, 31704),

Gene: TiroTheta9_48 Start: 32775, Stop: 32056, Start Num: 50
Candidate Starts for TiroTheta9_48:
(Start: 50 @32775 has 204 MA's), (119, 32547), (125, 32499), (137, 32424), (145, 32403), (147, 32400), (206, 32304), (216, 32250), (219, 32238), (223, 32223), (225, 32217),

Gene: Toaka_49 Start: 32819, Stop: 32118, Start Num: 45
Candidate Starts for Toaka_49:
(Start: 45 @32819 has 359 MA's), (118, 32624), (119, 32609), (125, 32561), (130, 32519), (135, 32492), (150, 32453), (162, 32432), (198, 32375), (219, 32300), (223, 32285), (228, 32249),

Gene: Todacoro_48 Start: 33068, Stop: 32286, Start Num: 33
Candidate Starts for Todacoro_48:
(Start: 33 @33068 has 7 MA's), (Start: 45 @33014 has 359 MA's), (70, 32978), (118, 32792), (130, 32687), (174, 32585), (219, 32468), (223, 32453), (240, 32357),

Gene: Tomathan_51 Start: 32822, Stop: 32115, Start Num: 45
Candidate Starts for Tomathan_51:
(Start: 45 @32822 has 359 MA's), (118, 32627), (119, 32612), (130, 32522), (131, 32519), (141, 32477), (219, 32303), (223, 32288), (240, 32192),

Gene: ToneTone_48 Start: 31800, Stop: 31072, Start Num: 45
Candidate Starts for ToneTone_48:
(Start: 45 @31800 has 359 MA's), (74, 31755), (119, 31563), (125, 31515), (130, 31473), (131, 31470), (155, 31404), (180, 31368), (210, 31317), (213, 31308), (219, 31260), (223, 31245), (241, 31146),

Gene: Topanga_45 Start: 32437, Stop: 31700, Start Num: 44
Candidate Starts for Topanga_45:
(Start: 44 @32437 has 13 MA's), (Start: 50 @32431 has 204 MA's), (119, 32191), (125, 32143), (130, 32101), (131, 32098), (158, 32029), (175, 31996), (206, 31948), (219, 31882), (223, 31867), (225, 31861), (228, 31831), (240, 31771),

Gene: Toro_51 Start: 35123, Stop: 34428, Start Num: 50
Candidate Starts for Toro_51:
(Start: 50 @35123 has 204 MA's), (72, 35081), (75, 35075), (119, 34919), (137, 34796), (160, 34748), (173, 34727), (188, 34700), (219, 34610), (223, 34595), (247, 34481),

Gene: Travvers_51 Start: 32822, Stop: 32115, Start Num: 45
Candidate Starts for Travvers_51:
(Start: 45 @32822 has 359 MA's), (118, 32627), (119, 32612), (130, 32522), (131, 32519), (141, 32477), (219, 32303), (223, 32288), (240, 32192),

Gene: Trike_45 Start: 31697, Stop: 30969, Start Num: 44
Candidate Starts for Trike_45:
(Start: 44 @31697 has 13 MA's), (Start: 50 @31691 has 204 MA's), (117, 31481), (119, 31460), (125, 31412), (130, 31370), (131, 31367), (139, 31331), (150, 31304), (219, 31151), (223, 31136), (240, 31040),

Gene: Tristan_48 Start: 34070, Stop: 33345, Start Num: 45
Candidate Starts for Tristan_48:
(Start: 45 @34070 has 359 MA's), (74, 34025), (119, 33836), (125, 33788), (130, 33746), (131, 33743), (213, 33575), (216, 33539), (219, 33527), (223, 33512),

Gene: Trixie_47 Start: 33165, Stop: 32434, Start Num: 45
Candidate Starts for Trixie_47:
(Start: 45 @33165 has 359 MA's), (74, 33120), (119, 32931), (125, 32883), (130, 32841), (131, 32838), (145, 32787), (213, 32670), (219, 32622), (223, 32607),

Gene: Trooper_50 Start: 33465, Stop: 32737, Start Num: 45
Candidate Starts for Trooper_50:
(Start: 45 @33465 has 359 MA's), (119, 33228), (125, 33180), (130, 33138), (131, 33135), (213, 32967), (219, 32919), (223, 32904), (225, 32898), (240, 32808),

Gene: TroyPia_49 Start: 32779, Stop: 32060, Start Num: 50
Candidate Starts for TroyPia_49:
(Start: 50 @32779 has 204 MA's), (119, 32551), (125, 32503), (137, 32428), (145, 32407), (147, 32404), (206, 32308), (216, 32254), (219, 32242), (223, 32227), (225, 32221),

Gene: Tubs_49 Start: 33024, Stop: 32320, Start Num: 45
Candidate Starts for Tubs_49:
(Start: 45 @33024 has 359 MA's), (74, 32979), (75, 32976), (Start: 77 @32973 has 1 MA's), (118, 32832), (119, 32817), (125, 32769), (130, 32727), (219, 32508), (223, 32493),

Gene: Tucker_51 Start: 31669, Stop: 30959, Start Num: 62
Candidate Starts for Tucker_51:
(Start: 62 @31669 has 2 MA's), (118, 31474), (125, 31411), (131, 31366), (132, 31351), (150, 31300), (219, 31147), (223, 31132), (225, 31126), (241, 31033),

Gene: Turbido_50 Start: 33493, Stop: 32768, Start Num: 45
Candidate Starts for Turbido_50:
(Start: 45 @33493 has 359 MA's), (119, 33259), (130, 33169), (131, 33166), (175, 33064), (213, 32998), (219, 32950), (223, 32935), (225, 32929),

Gene: Twigg_42 Start: 31932, Stop: 31219, Start Num: 50
Candidate Starts for Twigg_42:
(Start: 50 @31932 has 204 MA's), (74, 31884), (90, 31854), (127, 31641), (131, 31608), (155, 31542), (176, 31506), (209, 31455), (212, 31446), (219, 31398), (223, 31383), (228, 31347), (239, 31290),

Gene: Twister_45 Start: 32342, Stop: 31611, Start Num: 50
Candidate Starts for Twister_45:
(Start: 44 @32348 has 13 MA's), (Start: 50 @32342 has 204 MA's), (119, 32102), (125, 32054), (130, 32012), (131, 32009), (158, 31940), (175, 31907), (206, 31859), (219, 31793), (223, 31778), (225, 31772), (228, 31742), (240, 31682),

Gene: TygerBlood_48 Start: 32781, Stop: 32062, Start Num: 50
Candidate Starts for TygerBlood_48:
(Start: 50 @32781 has 204 MA's), (119, 32553), (125, 32505), (137, 32430), (145, 32409), (147, 32406), (206, 32310), (216, 32256), (219, 32244), (223, 32229), (225, 32223),

Gene: Ugenie5_46 Start: 33261, Stop: 32557, Start Num: 45
Candidate Starts for Ugenie5_46:
(Start: 45 @33261 has 359 MA's), (74, 33216), (75, 33213), (Start: 77 @33210 has 1 MA's), (118, 33069), (119, 33054), (125, 33006), (130, 32964), (219, 32745), (223, 32730),

Gene: UhSalsa_38 Start: 29171, Stop: 28410, Start Num: 48
Candidate Starts for UhSalsa_38:
(Start: 27 @29243 has 8 MA's), (Start: 48 @29171 has 36 MA's), (119, 28919), (125, 28871), (132, 28811), (139, 28790), (159, 28739), (191, 28679), (204, 28664), (223, 28577), (226, 28559), (237, 28493), (240, 28481),

Gene: Ulysses_47 Start: 32458, Stop: 31739, Start Num: 50
Candidate Starts for Ulysses_47:
(Start: 50 @32458 has 204 MA's), (119, 32230), (125, 32182), (137, 32107), (145, 32086), (147, 32083), (206, 31987), (216, 31933), (219, 31921), (223, 31906), (225, 31900),

Gene: UnionJack_42 Start: 31250, Stop: 30546, Start Num: 50
Candidate Starts for UnionJack_42:
(Start: 50 @31250 has 204 MA's), (127, 30974), (130, 30944), (131, 30941), (183, 30827), (219, 30725), (223, 30710), (240, 30614),

Gene: Updawg_50 Start: 33361, Stop: 32633, Start Num: 45
Candidate Starts for Updawg_50:
(Start: 45 @33361 has 359 MA's), (119, 33124), (125, 33076), (130, 33034), (131, 33031), (213, 32863), (219, 32815), (223, 32800), (225, 32794),

Gene: VA6_50 Start: 33457, Stop: 32729, Start Num: 45
Candidate Starts for VA6_50:
(Start: 45 @33457 has 359 MA's), (119, 33220), (130, 33130), (131, 33127), (145, 33076), (203, 32983), (213, 32959), (219, 32911), (223, 32896), (225, 32890), (240, 32800),

Gene: VC3_52 Start: 33241, Stop: 32555, Start Num: 45
Candidate Starts for VC3_52:
(Start: 45 @33241 has 359 MA's), (119, 33031), (131, 32938), (132, 32923), (203, 32815), (213, 32791), (216, 32755), (219, 32743), (223, 32728), (228, 32692), (240, 32632),

Gene: Vanisoa_49 Start: 33845, Stop: 33144, Start Num: 45
Candidate Starts for Vanisoa_49:
(Start: 45 @33845 has 359 MA's), (118, 33650), (119, 33635), (125, 33587), (130, 33545), (147, 33488), (150, 33479), (162, 33458), (198, 33401), (219, 33326), (223, 33311),

Gene: Vash_40 Start: 31693, Stop: 32385, Start Num: 50
Candidate Starts for Vash_40:
(Start: 50 @31693 has 204 MA's), (75, 31741), (119, 31909), (131, 32005), (223, 32218), (225, 32224), (240, 32314),

Gene: Veracruz_47 Start: 33068, Stop: 32286, Start Num: 33
Candidate Starts for Veracruz_47:

(Start: 33 @33068 has 7 MA's), (Start: 45 @33014 has 359 MA's), (70, 32978), (118, 32792), (130, 32687), (174, 32585), (219, 32468), (223, 32453), (240, 32357),

Gene: Vix_52 Start: 33289, Stop: 32582, Start Num: 45
Candidate Starts for Vix_52:
(Start: 45 @33289 has 359 MA's), (118, 33097), (130, 32992), (137, 32959), (219, 32764), (223, 32749),

Gene: VohminGhazi_51 Start: 32086, Stop: 31349, Start Num: 45
Candidate Starts for VohminGhazi_51:
(Start: 45 @32086 has 359 MA's), (74, 32041), (119, 31849), (132, 31741), (147, 31699), (198, 31612), (219, 31537), (223, 31522), (225, 31516), (241, 31423),

Gene: Waits_52 Start: 31687, Stop: 30962, Start Num: 49
Candidate Starts for Waits_52:
(Start: 49 @31687 has 24 MA's), (87, 31609), (92, 31597), (119, 31447), (130, 31357), (131, 31354), (136, 31327), (167, 31270), (219, 31144), (223, 31129),

Gene: WalterMcMickey_45 Start: 32348, Stop: 31611, Start Num: 44
Candidate Starts for WalterMcMickey_45:
(Start: 44 @32348 has 13 MA's), (Start: 50 @32342 has 204 MA's), (119, 32102), (125, 32054), (130, 32012), (131, 32009), (158, 31940), (175, 31907), (206, 31859), (219, 31793), (223, 31778), (225, 31772), (228, 31742), (240, 31682),

Gene: Wander_48 Start: 32778, Stop: 32059, Start Num: 50
Candidate Starts for Wander_48:
(Start: 50 @32778 has 204 MA's), (119, 32550), (125, 32502), (137, 32427), (145, 32406), (147, 32403), (206, 32307), (216, 32253), (219, 32241), (223, 32226), (225, 32220),

Gene: Warrior24_53 Start: 31900, Stop: 31172, Start Num: 49
Candidate Starts for Warrior24_53:
(Start: 49 @31900 has 24 MA's), (94, 31810), (119, 31654), (130, 31564), (165, 31483), (219, 31354), (223, 31339),

Gene: Watson_52 Start: 33198, Stop: 32491, Start Num: 45
Candidate Starts for Watson_52:
(Start: 45 @33198 has 359 MA's), (118, 33006), (130, 32901), (137, 32868), (219, 32673), (223, 32658),

Gene: WeiHuaDA_49 Start: 34006, Stop: 33275, Start Num: 45
Candidate Starts for WeiHuaDA_49:
(Start: 45 @34006 has 359 MA's), (66, 33976), (74, 33961), (119, 33772), (125, 33724), (130, 33682), (131, 33679), (145, 33628), (213, 33511), (219, 33463), (223, 33448), (228, 33412),

Gene: Whabigail7_50 Start: 33478, Stop: 32753, Start Num: 45
Candidate Starts for Whabigail7_50:
(Start: 45 @33478 has 359 MA's), (119, 33244), (130, 33154), (131, 33151), (175, 33049), (213, 32983), (219, 32935), (223, 32920), (225, 32914),

Gene: WideWale_50 Start: 33361, Stop: 32633, Start Num: 45
Candidate Starts for WideWale_50:
(Start: 45 @33361 has 359 MA's), (119, 33124), (125, 33076), (130, 33034), (131, 33031), (213, 32863), (219, 32815), (223, 32800), (225, 32794),

Gene: Wiks_50 Start: 31868, Stop: 31140, Start Num: 45
Candidate Starts for Wiks_50:
(Start: 45 @31868 has 359 MA's), (74, 31823), (119, 31631), (125, 31583), (130, 31541), (131, 31538), (155, 31472), (180, 31436), (210, 31385), (213, 31376), (219, 31328), (223, 31313), (241, 31214),

Gene: Wilbur_48 Start: 32778, Stop: 32059, Start Num: 50
Candidate Starts for Wilbur_48:
(Start: 50 @32778 has 204 MA's), (119, 32550), (125, 32502), (137, 32427), (145, 32406), (147, 32403), (206, 32307), (216, 32253), (219, 32241), (223, 32226), (225, 32220),

Gene: Wile_47 Start: 32788, Stop: 32069, Start Num: 50
Candidate Starts for Wile_47:
(Start: 50 @32788 has 204 MA's), (119, 32560), (125, 32512), (131, 32467), (145, 32416), (147, 32413), (148, 32410), (206, 32317), (213, 32299), (219, 32251), (223, 32236),

Gene: Wizard007_48 Start: 32786, Stop: 32067, Start Num: 50
Candidate Starts for Wizard007_48:
(Start: 50 @32786 has 204 MA's), (125, 32510), (137, 32435), (145, 32414), (147, 32411), (206, 32315), (216, 32261), (219, 32249), (223, 32234), (225, 32228),

Gene: Wolpertinger_48 Start: 32138, Stop: 31476, Start Num: 77
Candidate Starts for Wolpertinger_48:
(Start: 45 @32189 has 359 MA's), (Start: 77 @32138 has 1 MA's), (125, 31916), (130, 31874), (195, 31733), (213, 31703), (216, 31667), (219, 31655), (223, 31640), (225, 31634), (240, 31544),

Gene: Wooldri_54 Start: 33118, Stop: 32411, Start Num: 45
Candidate Starts for Wooldri_54:
(Start: 45 @33118 has 359 MA's), (118, 32926), (130, 32821), (137, 32788), (219, 32593), (223, 32578),

Gene: WorldCup_48 Start: 32551, Stop: 31850, Start Num: 45
Candidate Starts for WorldCup_48:
(Start: 45 @32551 has 359 MA's), (119, 32341), (125, 32293), (130, 32251), (135, 32224), (147, 32194), (150, 32185), (162, 32164), (198, 32107), (213, 32080), (219, 32032), (223, 32017),

Gene: WunderPhul_51 Start: 31866, Stop: 31138, Start Num: 45
Candidate Starts for WunderPhul_51:
(Start: 45 @31866 has 359 MA's), (74, 31821), (119, 31629), (125, 31581), (130, 31539), (131, 31536), (155, 31470), (180, 31434), (210, 31383), (213, 31374), (219, 31326), (223, 31311), (241, 31212),

Gene: Xena_46 Start: 32754, Stop: 32035, Start Num: 50
Candidate Starts for Xena_46:
(Start: 50 @32754 has 204 MA's), (119, 32526), (125, 32478), (131, 32433), (145, 32382), (147, 32379), (148, 32376), (206, 32283), (213, 32265), (219, 32217), (223, 32202),

Gene: XianYue_48 Start: 32830, Stop: 32096, Start Num: 45
Candidate Starts for XianYue_48:
(Start: 45 @32830 has 359 MA's), (119, 32593), (125, 32545), (130, 32503), (131, 32500), (135, 32476), (198, 32359), (203, 32356), (213, 32332), (219, 32284), (223, 32269), (225, 32263), (240, 32173),

Gene: Yecey3_50 Start: 32497, Stop: 31787, Start Num: 45

Candidate Starts for Yecey3_50:
(Start: 45 @32497 has 359 MA's), (74, 32452), (119, 32284), (130, 32194), (198, 32050), (219, 31975), (223, 31960),

Gene: YoSam321_48 Start: 32775, Stop: 32056, Start Num: 50
Candidate Starts for YoSam321_48:
(Start: 50 @32775 has 204 MA's), (119, 32547), (125, 32499), (137, 32424), (145, 32403), (147, 32400), (206, 32304), (216, 32250), (219, 32238), (223, 32223), (225, 32217),

Gene: Yogi_38 Start: 29144, Stop: 28383, Start Num: 48
Candidate Starts for Yogi_38:
(Start: 27 @29216 has 8 MA's), (Start: 48 @29144 has 36 MA's), (125, 28844), (132, 28784), (139, 28763), (159, 28712), (191, 28652), (204, 28637), (223, 28550), (226, 28532), (237, 28466), (240, 28454),

Gene: Yokurt_51 Start: 31868, Stop: 31140, Start Num: 45
Candidate Starts for Yokurt_51:
(Start: 45 @31868 has 359 MA's), (74, 31823), (119, 31631), (125, 31583), (130, 31541), (131, 31538), (155, 31472), (180, 31436), (210, 31385), (213, 31376), (219, 31328), (223, 31313), (241, 31214),

Gene: Yoncess_38 Start: 29145, Stop: 28384, Start Num: 48
Candidate Starts for Yoncess_38:
(Start: 27 @29217 has 8 MA's), (Start: 48 @29145 has 36 MA's), (119, 28893), (125, 28845), (132, 28785), (139, 28764), (159, 28713), (191, 28653), (204, 28638), (223, 28551), (226, 28533), (237, 28467), (240, 28455),

Gene: Yvonnetastic_110 Start: 62558, Stop: 63304, Start Num: 55
Candidate Starts for Yvonnetastic_110:
(Start: 55 @62558 has 5 MA's), (59, 62564), (Start: 68 @62576 has 6 MA's), (72, 62585), (74, 62591), (89, 62624), (104, 62675), (109, 62708), (124, 62837), (128, 62864), (132, 62909), (141, 62924), (143, 62933), (170, 62975), (208, 63035), (213, 63047), (225, 63116), (227, 63140), (239, 63203), (250, 63239), (256, 63290),

Gene: Zaka_51 Start: 31868, Stop: 31140, Start Num: 45
Candidate Starts for Zaka_51:
(Start: 45 @31868 has 359 MA's), (74, 31823), (119, 31631), (125, 31583), (130, 31541), (131, 31538), (155, 31472), (180, 31436), (210, 31385), (213, 31376), (219, 31328), (223, 31313), (241, 31214),

Gene: Zarafa_49 Start: 32966, Stop: 32238, Start Num: 45
Candidate Starts for Zarafa_49:
(Start: 45 @32966 has 359 MA's), (70, 32930), (111, 32786), (118, 32744), (130, 32639), (131, 32636), (174, 32537), (219, 32420), (223, 32405), (225, 32399),

Gene: Zetzy_51 Start: 32769, Stop: 32062, Start Num: 45
Candidate Starts for Zetzy_51:
(Start: 45 @32769 has 359 MA's), (118, 32577), (130, 32472), (137, 32439), (219, 32244), (223, 32229),

Gene: Zimmer_46 Start: 33726, Stop: 33022, Start Num: 45
Candidate Starts for Zimmer_46:
(Start: 45 @33726 has 359 MA's), (118, 33534), (119, 33519), (131, 33426), (216, 33222), (219, 33210), (223, 33195), (225, 33189), (228, 33159),

Gene: Zion_9 Start: 4717, Stop: 5490, Start Num: 48
Candidate Starts for Zion_9:
(Start: 48 @4717 has 36 MA's), (51, 4729), (69, 4753), (76, 4771), (122, 4993), (132, 5077), (133, 5080), (179, 5161), (217, 5257), (222, 5275), (223, 5281), (226, 5299), (227, 5311), (245, 5389), (249, 5401),

Gene: Zolita_42 Start: 32493, Stop: 31774, Start Num: 50
Candidate Starts for Zolita_42:
(Start: 50 @32493 has 204 MA's), (74, 32445), (118, 32277), (131, 32169), (216, 31965), (219, 31953), (223, 31938), (228, 31902), (239, 31845),

Gene: Zulu_51 Start: 31650, Stop: 30940, Start Num: 62
Candidate Starts for Zulu_51:
(Start: 62 @31650 has 2 MA's), (118, 31455), (125, 31392), (131, 31347), (132, 31332), (150, 31281), (219, 31128), (223, 31113), (225, 31107), (241, 31014),