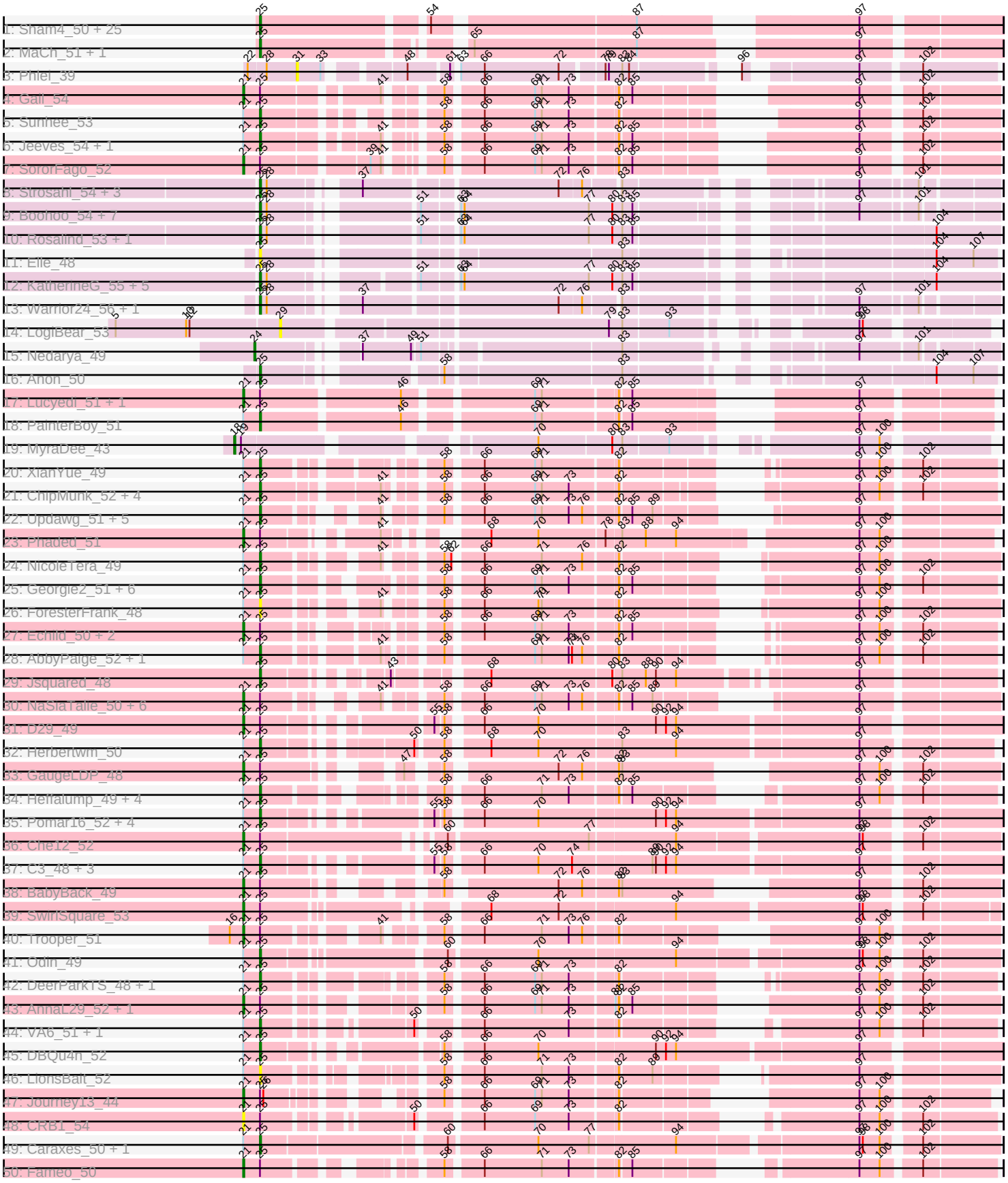
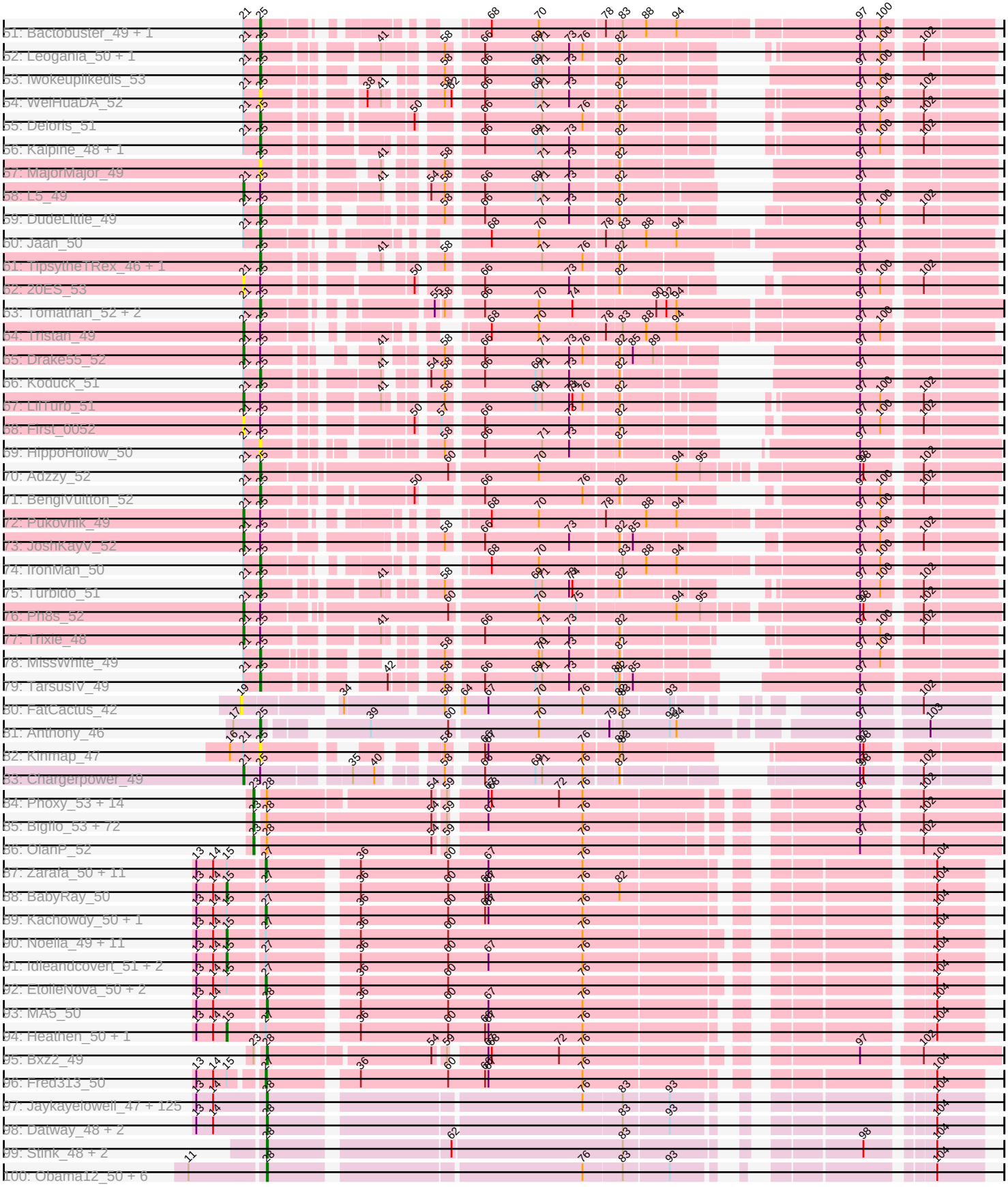
Pham 304581


1: Sham4_50 + 25
2: MaCh_51 + 1
3: Phlei_39
4: Gail_54
5: Sunnee_53
6: Jeeves_54 + 1
7: SororFago_52
8: Strosahl_54 + 3
9: Boohoo_54 + 7
10: Rosalind_53 + 1
11: Elle_48
12: KatherineG_55 + 5
13: Warrior24_56 + 1
14: LogiBear_53
15: Nedarya_49
16: Anon_50
17: Lucyedi_51 + 1
18: PainterBoy_51
19: MyraDee_43
20: XianYue_49
21: ChipMunk_52 + 4
22: Updawg_51 + 5
23: Phaded_51
24: NicoleTera_49
25: Georgie2_51 + 6
26: ForesterFrank_48
27: Echild_50 + 2
28: AbbyPaige_52 + 1
29: Jsquared_48
30: NaSiaTalle_50 + 6
31: D29_49
32: Herbertwm_50
33: GaugeLDP_48
34: Heralump_49 + 4
35: Pomar16_52 + 4
36: Che12_52
37: C3_48 + 3
38: BabyBack_49
39: SwiftSquare_53
40: Trooper_51
41: Odin_49
42: DeerParkTS_48 + 1
43: AnnaL29_52 + 1
44: VA6_51 + 1
45: DBQu4n_52
46: LionsBait_52
47: Journey13_44
48: CRB1_54
49: Caraxes_50 + 1
50: Fameo_50

Pham 304581


51: Bactobuster_49 + 1
52: Leogania_50 + 1
53: Iwokeuplikedis_53
54: WeiHuaDA_52
55: Delons_51
56: Kalpine_48 + 1
57: MajorMajor_49
58: L5_49
59: DudeLittle_49
60: Jaan_50
61: TipsytheTRex_46 + 1
62: 20ES_53
63: Tomathan_52 + 2
64: Tristan_49
65: Drake55_52
66: Kodiuck_51
67: LilTurb_51
68: First_0052
69: HippoHollow_50
70: Adzzy_52
71: BengiVuitton_52
72: Pukovnik_49
73: JoshKayV_52
74: IronMan_50
75: Turbido_51
76: Ph8s_52
77: Trixie_48
78: MissWhite_49
79: TarsusIV_49
80: FatCactus_42
81: Anthony_46
82: Kinmap_47
83: Chargerpower_49
84: Phoxy_53 + 14
85: Bigflo_53 + 72
86: OlanP_52
87: Zarafa_50 + 11
88: BabyRay_50
89: Kachowdy_50 + 1
90: Noella_49 + 11
91: Idleandcover1_51 + 2
92: EtoileNova_50 + 2
93: MA5_50
94: Heathen_50 + 1
95: Bxz2_49
96: Fred313_50
97: Jaykayelowell_47 + 125
98: Datway_48 + 2
99: Stink_48 + 2
100: Obama12_50 + 6

Pham 304581

101: Thanksgivukkah_48
102: Mundrea_48
103: Arturo_48 + 2
104: Holl_48
105: Stasia_48
106: Aragog_41 + 10
107: Naca_44 + 6
108: HuntaEnerson15_43 + 4
109: Jabiru_43 + 2
110: Lilbunny_51
111: Isiphiwo_50 + 1
112: Jwks_51 + 6
113: Hammer_53 + 4
114: Zaka_52 + 4
115: Chartreuse_51 + 11
116: Riker_53
117: DelvinSonDuh_50 + 4
118: Tucker_53 + 1
119: Blinn1_55
120: Toro_52 + 1
121: Sheen_50
122: Celestialunch_49 + 1
123: Kiodilin_50 + 1
124: EmyBug_49 + 5
125: BogosyJay_49 + 3
126: Bellis_49 + 4
127: Jiawan_48 + 13
128: Fayely_50 + 8
129: Yecey3_51
130: Keziacharles14_50
131: SheaKeira_49
132: Elephantoon_49
133: DreamTeam1_49
134: Darrell_52
135: Anissanae_49
136: Vanisoa_50
137: Alma_50
138: BobbyDazzler_39 + 21
139: Shuman_39 + 14
140: RGL3_34

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 304581 Report

This analysis was run 06/08/26 on database version 649.

Pham number 304581 has 615 members, 70 are drafts.

Phages represented in each track:
• Track 1 : Sham4_50, Wolpertinger_49, Orange_50, Gilberta_51, Snape_50, Mabel_50, TinyTimmy_50, Jabith_51, Et2Brutus_49, Flaverint_51, Fibonacci_50, Bud_50, Mulciber_50, Insomnia_51, Petersenfast_49, Bowtie_51, Saskia_51, Timothy_50, Joselito_51, Kimba_50, Hutc2_50, Ebony_50, Munch_51, Salz_49, Aneem_51, Lucivia_51
• Track 2 : MaCh_51, Bachome_52
• Track 3 : Phlei_39
• Track 4 : Gail_54
• Track 5 : Sunhee_53
• Track 6 : Jeeves_54, Luchador_54
• Track 7 : SororFago_52
• Track 8 : Strosahl_54, Waits_54, Remus_54, Ravana_56
• Track 9 : Boohoo_54, LastResort_53, JSwag_53, Nebulosus_53, Looper_54, ReMo_53, Epsocamisio_52, Anaysia_54
• Track 10 : Rosalind_53, ShayRa_55
• Track 11 : Elle_48
• Track 12 : KatherineG_55, Soups_55, MinecraftSteve_55, DekHockey33_54, Switzerland_54, Battleship_56
• Track 13 : Warrior24_56, Oofda_54
• Track 14 : LogiBear_53
• Track 15 : Nedarya_49
• Track 16 : Anon_50
• Track 17 : Lucyedi_51, EagleEye_52
• Track 18 : PainterBoy_51
• Track 19 : MyraDee_43
• Track 20 : XianYue_49
• Track 21 : ChipMunk_52, Jerm_52, Smeagan_53, Dignity_52, KingCyrus_52
• Track 22 : Updawg_51, HarryHoudini_51, Bugsy_52, Equemioh13_51, Terrific_53, Gratitude_50
• Track 23 : Phaded_51
• Track 24 : NicoleTera_49
• Track 25 : Georgie2_51, FiringLine_50, SweetiePie_50, Power_49, SnapTap_50, Crucio_50, QueenBeesly_50
• Track 26 : ForesterFrank_48
• Track 27 : Echild_50, SemperFi_51, Benvolio_47
• Track 28 : AbbyPaige_52, Whabigail7_51
• Track 29 : Jsquared_48

• Track 30 : NaSiaTalie_50, Baehexic_49, Flare16_50, WideWale_51, Sknot_50, MiculUcigas_50, Centaur_51
• Track 31 : D29_49
• Track 32 : Herbertwm_50
• Track 33 : GaugeLDP_48
• Track 34 : Heffalump_49, Dalmatian_51, QueenB2_49, Anselm_51, Retro23_51
• Track 35 : Pomar16_52, Naji_52, Travvers_52, D32_51, StarStuff_52
• Track 36 : Che12_52
• Track 37 : C3_48, ANI8_53, VC3_53, AN9_53
• Track 38 : BabyBack_49
• Track 39 : SwirlSquare_53
• Track 40 : Trooper_51
• Track 41 : Odin_49
• Track 42 : DeerParkTS_48, RedRock_52
• Track 43 : AnnaL29_52, Loser_52
• Track 44 : VA6_51, LadyBird_55
• Track 45 : DBQu4n_52
• Track 46 : LionsBait_52
• Track 47 : Journey13_44
• Track 48 : CRB1_54
• Track 49 : Caraxes_50, Superchunk_49
• Track 50 : Fameo_50
• Track 51 : Bactobuster_49, Landor_50
• Track 52 : Leogania_50, BiancaTri92_50
• Track 53 : Iwokeuplikedis_53
• Track 54 : WeiHuaDA_52
• Track 55 : Deloris_51
• Track 56 : Kalpine_48, Colin_50
• Track 57 : MajorMajor_49
• Track 58 : L5_49
• Track 59 : DudeLittle_49
• Track 60 : Jaan_50
• Track 61 : TipsytheTRex_46, Serenity_50
• Track 62 : 20ES_53
• Track 63 : Tomathan_52, Kerberos_52, Duplo_52
• Track 64 : Tristan_49
• Track 65 : Drake55_52
• Track 66 : Koduck_51
• Track 67 : LilTurb_51
• Track 68 : First_0052
• Track 69 : HippoHollow_50
• Track 70 : Adzzy_52
• Track 71 : BengiVuitton_52
• Track 72 : Pukovnik_49
• Track 73 : JoshKayV_52
• Track 74 : IronMan_50
• Track 75 : Turbido_51
• Track 76 : Ph8s_52
• Track 77 : Trixie_48
• Track 78 : MissWhite_49
• Track 79 : TarsusIV_49
• Track 80 : FatCactus_42
• Track 81 : Anthony_46

• Track 82 : Kinmap_47
• Track 83 : Chargerpower_49
• Track 84 : Phoxy_53, Spike509_53, Methuselah_49, BuzzBuzz_51, LarryKay_53, Daishi_52, TinyPebbles_52, KADY_53, HashRod_54, Misomonster_54, Farber_53, AgronaGT15_52, Rummer_52, Louie6_52, Soshari_55
• Track 85 : Bigflo_53, Hercules11_53, SoilDragon_53, Fernando_53, Sabia_53, Malinsilva_55, Lilith_54, Tiffany_53, Groupthink_54, Aglet_54, Wooldri_55, MadMarie_53, Watson_53, Snickers_53, Grub_53, Beauxregard13_53, Anubis_56, LugYA_56, BreSam8_53, PGHhamlin_55, PotatoSplit_55, Ollie_53, Zetzy_52, P28Green_54, Phranny_54, Reba_53, Vix_53, SoYo_53, StepMih_53, MuchMore_56, MoneyMay_53, Manu_53, Calvinny_53, HaveUMetTed_54, Marie_53, MarQuardt_53, Croquant_54, Sabinator_52, Phoebe_54, Dieselweasel_54, Microwolf_53, Heliosoles_52, Taurus_54, JHC117_53, Penny1_54, Grif_53, Colbster_53, PurpleHaze_53, PhishRPhriends_51, EpicPhail_54, Montavir_52, Kalb97_54, Gwennie_52, JeppNRM_54, Pembroke_53, Jobu08_52, GingkoMaracino_53, Grum1_53, ACFishhook_52, AugsMagnumOpus_56, Kalnoky_54, Marius_54, LBerry_54, Pawn_53, Gemma_52, GtownJaz_53, Mainiac_53, Stagni_53, DaHudson_53, ClownCar_53, JenCasNa_54, Lowa_53, Cullens_53
• Track 86 : OlanP_52
• Track 87 : Zarafa_50, DropBear_50, Chiqui_48, Pistachio_52, Clammy_51, Roimos_50, TNguyen7_51, SaturnRing_51, BabyJohn_48, Bugatti_51, Marchesa_50, BlueBird_52
• Track 88 : BabyRay_50
• Track 89 : Kachowdy_50, HelDan_50
• Track 90 : Noella_49, Hookmount_49, Caviar_49, Pocahontas_49, Margo_49, QuinnKiro_48, Norbert_48, Veracruz_48, Lambert1_49, ResDef_49, Todacoro_49, Texage_48
• Track 91 : Idleandcovert_51, Giroux_52, Puppy_52
• Track 92 : EtoileNova_50, Popcicle_49, Panamaxus_47
• Track 93 : MA5_50
• Track 94 : Heathen_50, Scout_50
• Track 95 : Bxz2_49
• Track 96 : Fred313_50
• Track 97 : Jaykayelowell_47, KekoraPapaka_49, Morpher26_48, Sultana_49, Cici_48, HamSlice_48, Bartimeaus_49, Deano_48, RockieBear_48, TroyPia_50, Relief_48, Wander_49, Blackmoor_49, Clarenza_48, Eurydice_50, Houdini22_49, Baby16_49, Tinybot_48, Huxley_48, LappelDuVide_49, Broseidon_49, Cocoaberry_49, Perplexer_48, Gadost_49, Avle17_49, NotAPhaseMom_49, Funston_48, Cindaradix_46, BellusTerra_50, Lemur_49, Bruiser_48, JetBlade_49, SteMason_48, Citius_49, Iceman_49, Koreni_48, DirtyDunning_48, Achebe_47, Connomayer_49, Ohfah_50, Pumbaa_49, Badger_47, BubbleTrouble_48, Kingmustik0402_49, TinaFeyge_49, Kremtemulon_49, Florean_49, LeoAvram_49, PeterPeter_49, Roosevelt_48, MeeZee_49, Spino_48, Bombshell_49, Pipcraft_47, Dhanush_49, Polymorphads_50, Ruin_49, NorthStar_48, Nebs_50, Rosa24_48, Alberto7_50, Bumblebee11_47, KFPoly_48, Lunsford_50, Morrow_50, Romney_49, Camperdownii_47, Scamp_49, AbbysRanger_48, Backyardigan_47, Iracema64_50, Druantia_49, Maxo_50, Eros_49, LittleGuy_49, Eapen_49, CentreCat_49, PetiteSangsue_48, Sparxx_50, Phontbonne_49, Shaka_49, Kampy_49, Kyee_49, Nyxis_49, LochMonster_50, OKaNui_49, ICleared_49, Melvin_51, Wilbur_49, Katalie136_48, SenorClean_49, Chaph_49, Ulysses_48, Mazhar510_49, JoongJeon_48, Mayonnaise_48, TygerBlood_49, Millski_48, Phelipe_50, LittleB_49, Caelakin_49, Medusa_49, Phacado_49, Koan_47, Peaches_49, Xena_47,

Sabertooth_49, Palestino_48, Wizard007_49, Annyong_49, Skipitt_48, Burger_47, Nemo27_49, Albee_49, Wile_48, Flux_49, Cintron_48, Abdiel_49, Eris_48, Maverick_49, Eagle_49, Commander_49, Lorenzo_49, TiroTheta9_49, Taquarus_49, YoSam321_49
• Track 98 : Datway_48, Noelle_49, Shygu2_48
• Track 99 : Stink_48, AvatarAhPeg_47, Miramae_47
• Track 100 : Obama12_50, LHTSCC_51, BangNhom_50, Cerulean_50, Happiness_48, ChampagnePapi_51, SheldonCooper_51
• Track 101 : Thanksgivukkah_48
• Track 102 : Mundrea_48
• Track 103 : Arturo_48, Kratark_49, Phighter1804_49
• Track 104 : Holli_48
• Track 105 : Stasia_48
• Track 106 : Aragog_41, Prinashe11_43, Discoknowium_41, Milcery_43, Tarynearal_41, Micasa_44, George_42, Phlorence_41, Cuco_42, Archetta_42, Swirley_45
• Track 107 : Naca_44, ElTiger69_44, Airmid_43, PetterN_46, Scorpia_46, Chadwick_46, Benedict_45
• Track 108 : HuhtaEnerson15_43, Florence4_42, LittleCherry_43, Bonamassa_43, Twigg_43
• Track 109 : Jabiru_43, UnionJack_43, PickleBack_42
• Track 110 : Lilbunny_51
• Track 111 : Isiphiwo_50, Dorothea_52, BABullseye_46, DaVinci_51, SuperCallie99_51, McFly_52, Candra_52, Neeharika16_51, Kazan_53, VohminGhazi_52, EricB_52, Pmask_52
• Track 112 : Wiks_51, Jeffabunny_52, Indra_55, Zulu_53, Hexamo_52, Helmet_54, Temprado_53
• Track 113 : Hammer_53, Blue7_54, Gladiator_50, BlessJoy_53, Artemis2UCLA_52
• Track 114 : Zaka_52, Yokurt_52, WunderPhul_52, ToneTone_49, Garak_54
• Track 115 : Chartreuse_51, Jordennis_52, JewelBug_53, Hoot_47, SmellyB_52, Kipper29_52, GreedyLawyer_52, Cookiedough_52, Newrala_52, SuperAwesome_52, Polyphemus_54, BennyP_53
• Track 116 : Rifter_53
• Track 117 : DelvinSonDorr_50, Gruunaga_52, Koko_53, Roksolana_53, CloudWang3_52
• Track 118 : Tucker_53, Priamo_54
• Track 119 : Blinn1_55
• Track 120 : Toro_52, FlyCatcher_54
• Track 121 : Sheen_50
• Track 122 : Celestialunch_49, MegTheThird_49
• Track 123 : Klodlith_50, Charm_49
• Track 124 : EmyBug_49, PackMan_49, Myxus_50, HortumSL17_50, Catalina_51, Aliter_50
• Track 125 : BogosyJay_49, Maminiaina_49, LoneWolf_51, Toaka_50
• Track 126 : Bellris_49, WorldCup_49, Minispark_49, CogOmlette_49, Rahalelujah_50
• Track 127 : Jiawan_48, Sachima_47, Ugenie5_47, Conquerage_50, Phonnegut_50, Pioneer_50, ExplosioNervosa_50, RyeScarlet_51, Lilleskat_48, Beemo_50, Hanray_48, EdogawaKiddo_48, Scherzo_50, Holex_49
• Track 128 : Fayely_50, Eidsmoe_50, Qobbit_50, Phaeder_50, Tubs_50, Spouty_50, Priya_50, Onglai_48, Ayanochan_51
• Track 129 : Yecey3_51
• Track 130 : Keziacharles14_50

• Track 131 : SheaKeira_49
• Track 132 : Elephantoon_49
• Track 133 : DreamTeam1_49
• Track 134 : Darrell_52
• Track 135 : Arissanae_49
• Track 136 : Vanisoa_50
• Track 137 : Alma_50
• Track 138 : BobbyDazzler_39, PhailMary_38, Bradshaw_39, Partridge_39, Lillie_39, Yogi_39, RexFury_39, Rhodalysa_39, Krishelle_39, Rasputin_39, CosmicSans_39, Gollum_39, RER2_32, Swann_39, Hiro_39, Phrankenstein_39, TWAMP_39, Alpacados_38, StCroix_39, Naiad_39, Bonanza_39, Alatin_39
• Track 139 : Shuman_39, AppleCloud_37, Bryce_39, Natosaleda_39, Erik_39, Nancinator_39, Jester_39, Harlequin_39, Espica_39, Belenaria_39, UhSalsa_39, Takoda_39, Yoncess_39, Dinger_39, AngryOrchard_37
• Track 140 : RGL3_34

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

The start number called the most often in the published annotations is 25, it was called in 164 of the 545 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AN9_53, ANI8_53, AbbyPaige_52, Adzzy_52, Alma_50, Anaysia_54, Aneem_51, Anon_50, Anselm_51, Anthony_46, Arissanae_49, Ayanochan_51, BABullseye_46, Bachome_52, Bactobuster_49, Battleship_56, Beemo_50, Bellris_49, BengiVuitton_52, BiancaTri92_50, Blinn1_55, BogosyJay_49, Boohoo_54, Bowtie_51, Bud_50, Bugsy_52, C3_48, Candra_52, Caraxes_50, Celestialunch_49, Charm_49, ChipMunk_52, CloudWang3_52, CogOmlette_49, Colin_50, Conquerage_50, Crucio_50, D32_51, DBQu4n_52, DaVinci_51, Dalmatian_51, DeerParkTS_48, DekHockey33_54, Deloris_51, DelvinSonDorr_50, Dignity_52, Dorothea_52, DreamTeam1_49, DudeLittle_49, Duplo_52, Ebony_50, EdogawaKiddo_48, Eidsmoe_50, Elephantoon_49, Elle_48, Epsocamisio_52, Equemioh13_51, EricB_52, Et2Brutus_49, ExplosioNervosa_50, Fayely_50, Fibonacci_50, FiringLine_50, Flaverint_51, ForesterFrank_48, Garak_54, Georgie2_51, Gilberta_51, Gratitude_50, Gruunaga_52, Hanray_48, HarryHoudini_51, Heffalump_49, Herbertwm_50, HippoHollow_50, Holex_49, Hutc2_50, Insomnia_51, IronMan_50, Isiphiwo_50, Iwokeuplikedis_53, JSwag_53, Jaan_50, Jabith_51, Jeeves_54, Jerm_52, Jiawan_48, Joselito_51, Jsquared_48, Kalpine_48, KatherineG_55, Kazan_53, Kerberos_52, Keziacharles14_50, Kimba_50, KingCyrus_52, Kinmap_47, Klodlith_50, Koduck_51, Koko_53, LadyBird_55, Landor_50, LastResort_53, Leogania_50, Lilleskat_48, LionsBait_52, LoneWolf_51, Looper_54, Luchador_54, Lucivia_51, MaCh_51, Mabel_50, MajorMajor_49, Maminiaina_49, McFly_52, MegTheThird_49, MinecraftSteve_55, Minispark_49, MissWhite_49, Mulciber_50, Munch_51, Naji_52, Nebulosus_53, Neeharika16_51, NicoleTera_49, Odin_49, Onglai_48, Oofda_54, Orange_50, PainterBoy_51, Petersenfast_49, Phaeder_50, Phonnegut_50, Pioneer_50, Pmask_52, Pomar16_52, Power_49, Priamo_54, Priya_50, Qobbit_50, QueenB2_49, QueenBeesly_50, Rahalelujah_50, Ravana_56, ReMo_53, RedRock_52, Remus_54, Retro23_51, Roksolana_53, Rosalind_53, RyeScarlet_51, Sachima_47, Salz_49, Saskia_51, Scherzo_50, Serenity_50, Sham4_50, ShayRa_55, SheaKeira_49, Smeagan_53,

SnapTap_50, Snape_50, Soups_55, Spouty_50, StarStuff_52, Strosahl_54, Sunhee_53, SuperCallie99_51, Superchunk_49, SweetiePie_50, Switzerland_54, TarsusIV_49, Terrific_53, Timothy_50, TinyTimmy_50, TipsytheTRex_46, Toaka_50, Tomathan_52, ToneTone_49, Travvers_52, Tubs_50, Tucker_53, Turbido_51, Ugenie5_47, Updawg_51, VA6_51, VC3_53, Vanisoa_50, VohminGhazi_52, Waits_54, Warrior24_56, WeiHuaDA_52, Whabigail7_51, Wolpertinger_49, WorldCup_49, WunderPhul_52, XianYue_49, Yecey3_51, Yokurt_52, Zaka_52,

Genes that have the "Most Annotated" start but do not call it:
• 20ES_53, Aliter_50, AnnaL29_52, Artemis2UCLA_52, BabyBack_49, Baehexic_49, BennyP_53, Benvolio_47, BlessJoy_53, Blue7_54, CRB1_54, Catalina_51, Centaur_51, Chargerpower_49, Chartreuse_51, Che12_52, Cookiedough_52, D29_49, Darrell_52, Drake55_52, EagleEye_52, Echild_50, EmyBug_49, Fameo_50, First_0052, Flare16_50, Gail_54, GaugeLDP_48, Gladiator_50, GreedyLawyer_52, Hammer_53, Helmet_54, Hexamo_52, Hoot_47, HortumSL17_50, Indra_55, Jeffabunny_52, JewelBug_53, Jordennis_52, JoshKayV_52, Journey13_44, Kipper29_52, L5_49, LilTurb_51, Lilbunny_51, Loser_52, Lucyedi_51, MiculUcigas_50, Myxus_50, NaSiaTalie_50, Newrala_52, PackMan_49, Ph8s_52, Phaded_51, Polyphemus_54, Pukovnik_49, Rifter_53, SemperFi_51, Sknot_50, SmellyB_52, SororFago_52, SuperAwesome_52, SwirlSquare_53, Temprado_53, Tristan_49, Trixie_48, Trooper_51, WideWale_51, Wiks_51, Zulu_53,

Genes that do not have the "Most Annotated" start:
• ACFishhook_52, AbbysRanger_48, Abdiel_49, Achebe_47, Aglet_54, AgronaGT15_52, Airmid_43, Alatin_39, Albee_49, Alberto7_50, Alpacados_38, AngryOrchard_37, Annyong_49, Anubis_56, AppleCloud_37, Aragog_41, Archetta_42, Arturo_48, AugsMagnumOpus_56, AvatarAhPeg_47, Avle17_49, Baby16_49, BabyJohn_48, BabyRay_50, Backyardigan_47, Badger_47, BangNhom_50, Bartimeaus_49, Beauxregard13_53, Belenaria_39, BellusTerra_50, Benedict_45, Bigflo_53, Blackmoor_49, BlueBird_52, BobbyDazzler_39, Bombshell_49, Bonamassa_43, Bonanza_39, Bradshaw_39, BreSam8_53, Broseidon_49, Bruiser_48, Bryce_39, BubbleTrouble_48, Bugatti_51, Bumblebee11_47, Burger_47, BuzzBuzz_51, Bxz2_49, Caelakin_49, Calvinny_53, Camperdownii_47, Caviar_49, CentreCat_49, Cerulean_50, Chadwick_46, ChampagnePapi_51, Chaph_49, Chiqui_48, Cici_48, Cindaradix_46, Cintron_48, Citius_49, Clammy_51, Clarenza_48, ClownCar_53, Cocoaberry_49, Colbster_53, Commander_49, Connomayer_49, CosmicSans_39, Croquant_54, Cuco_42, Cullens_53, DaHudson_53, Daishi_52, Datway_48, Deano_48, Dhanush_49, Dieselweasel_54, Dinger_39, DirtyDunning_48, Discoknowium_41, DropBear_50, Druantia_49, Eagle_49, Eapen_49, ElTiger69_44, EpicPhail_54, Erik_39, Eris_48, Eros_49, Espica_39, EtoileNova_50, Eurydice_50, Farber_53, FatCactus_42, Fernando_53, Florean_49, Florence4_42, Flux_49, FlyCatcher_54, Fred313_50, Funston_48, Gadost_49, Gemma_52, George_42, GingkoMaracino_53, Giroux_52, Gollum_39, Grif_53, Groupthink_54, Grub_53, Grum1_53, GtownJaz_53, Gwennie_52, HamSlice_48, Happiness_48, Harlequin_39, HashRod_54, HaveUMetTed_54, Heathen_50, HelDan_50, Heliosoles_52, Hercules11_53, Hiro_39, Holli_48, Hookmount_49, Houdini22_49, HuhtaEnerson15_43, Huxley_48, ICleared_49, Iceman_49, Idleandcovert_51, Iracema64_50, JHC117_53, Jabiru_43, Jaykayelowell_47, JenCasNa_54, JeppNRM_54, Jester_39, JetBlade_49, Jobu08_52, JoongJeon_48, KADY_53, KFPoly_48, Kachowdy_50, Kalb97_54, Kalnoky_54, Kampy_49, Katalie136_48, KekoraPapaka_49, Kingmustik0402_49, Koan_47, Koreni_48, Kratark_49, Kremtemulon_49, Krishelle_39, Kyee_49, LBerry_54, LHTSCC_51, Lambert1_49, LappelDuVide_49, LarryKay_53, Lemur_49,

LeoAvram_49, Lilith_54, Lillie_39, LittleB_49, LittleCherry_43, LittleGuy_49, LochMonster_50, LogiBear_53, Lorenzo_49, Louie6_52, Lowa_53, LugYA_56, Lunsford_50, MA5_50, MadMarie_53, Mainiac_53, Malinsilva_55, Manu_53, MarQuardt_53, Marchesa_50, Margo_49, Marie_53, Marius_54, Maverick_49, Maxo_50, Mayonnaise_48, Mazhar510_49, Medusa_49, MeeZee_49, Melvin_51, Methuselah_49, Micasa_44, Microwolf_53, Milcery_43, Millski_48, Miramae_47, Misomonster_54, MoneyMay_53, Montavir_52, Morpher26_48, Morrow_50, MuchMore_56, Mundrea_48, MyraDee_43, Naca_44, Naiad_39, Nancinator_39, Natosaleda_39, Nebs_50, Nedarya_49, Nemo27_49, Noella_49, Noelle_49, Norbert_48, NorthStar_48, NotAPhaseMom_49, Nyxis_49, OKaNui_49, Obama12_50, Ohfah_50, OlanP_52, Ollie_53, P28Green_54, PGHhamlin_55, Palestino_48, Panamaxus_47, Partridge_39, Pawn_53, Peaches_49, Pembroke_53, Penny1_54, Perplexer_48, PeterPeter_49, PetiteSangsue_48, PetterN_46, Phacado_49, PhailMary_38, Phelipe_50, Phighter1804_49, PhishRPhriends_51, Phlei_39, Phlorence_41, Phoebe_54, Phontbonne_49, Phoxy_53, Phrankenstein_39, Phranny_54, PickleBack_42, Pipcraft_47, Pistachio_52, Pocahontas_49, Polymorphads_50, Popcicle_49, PotatoSplit_55, Prinashe11_43, Pumbaa_49, Puppy_52, PurpleHaze_53, QuinnKiro_48, RER2_32, RGL3_34, Rasputin_39, Reba_53, Relief_48, ResDef_49, RexFury_39, Rhodalysa_39, RockieBear_48, Roimos_50, Romney_49, Roosevelt_48, Rosa24_48, Ruin_49, Rummer_52, Sabertooth_49, Sabia_53, Sabinator_52, SaturnRing_51, Scamp_49, Scorpia_46, Scout_50, SenorClean_49, Shaka_49, Sheen_50, SheldonCooper_51, Shuman_39, Shygu2_48, Skipitt_48, Snickers_53, SoYo_53, SoilDragon_53, Soshari_55, Sparxx_50, Spike509_53, Spino_48, StCroix_39, Stagni_53, Stasia_48, SteMason_48, StepMih_53, Stink_48, Sultana_49, Swann_39, Swirley_45, TNguyen7_51, TWAMP_39, Takoda_39, Taquarus_49, Tarynearal_41, Taurus_54, Texage_48, Thanksgivukkah_48, Tiffany_53, TinaFeyge_49, TinyPebbles_52, Tinybot_48, TiroTheta9_49, Todacoro_49, Toro_52, TroyPia_50, Twigg_43, TygerBlood_49, UhSalsa_39, Ulysses_48, UnionJack_43, Veracruz_48, Vix_53, Wander_49, Watson_53, Wilbur_49, Wile_48, Wizard007_49, Wooldri_55, Xena_47, YoSam321_49, Yogi_39, Yoncess_39, Zarafa_50, Zetzy_52,

Summary by start number:

Start 1:
• Found in 10 of 615 (1.6%) of genes in pham
• Manual Annotations of this start: 5 of 545
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Artemis2UCLA_52 (A6), BlessJoy_53 (A6), Blue7_54 (A6), Gladiator_50 (A6), Hammer_53 (A6),

Start 13:
• Found in 169 of 615 (27.5%) of genes in pham
• Manual Annotations of this start: 1 of 545
• Called 0.6% of time when present
• Phage (with cluster) where this start called: Holli_48 (A4),

Start 14:
• Found in 169 of 615 (27.5%) of genes in pham
• Manual Annotations of this start: 1 of 545
• Called 0.6% of time when present
• Phage (with cluster) where this start called: Thanksgivukkah_48 (A4),

Start 15:
• Found in 36 of 615 (5.9%) of genes in pham
• Manual Annotations of this start: 18 of 545
• Called 50.0% of time when present
• Phage (with cluster) where this start called: BabyRay_50 (A3), Caviar_49 (A3), Giroux_52 (A3), Heathen_50 (A3), Hookmount_49 (A3), Idleandcovert_51 (A3), Lambert1_49 (A3), Margo_49 (A3), Noella_49 (A3), Norbert_48 (A3), Pocahontas_49 (A3), Puppy_52 (A3), QuinnKiro_48 (A3), ResDef_49 (A3), Scout_50 (A3), Texage_48 (A3), Todacoro_49 (A3), Veracruz_48 (A3),

Start 18:
• Found in 1 of 615 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 545
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MyraDee_43 (A18),

Start 19:
• Found in 2 of 615 (0.3%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: FatCactus_42 (A20),

Start 20:
• Found in 3 of 615 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 545
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Rifter_53 (A6),

Start 21:
• Found in 200 of 615 (32.5%) of genes in pham
• Manual Annotations of this start: 61 of 545
• Called 32.0% of time when present
• Phage (with cluster) where this start called: 20ES_53 (A2), Aliter_50 (A9), AnnaL29_52 (A2), BabyBack_49 (A2), Baehexic_49 (A2), BennyP_53 (A6), Benvolio_47 (A2), CRB1_54 (A2), Catalina_51 (A9), Centaur_51 (A2), Chargerpower_49 (A22), Chartreuse_51 (A6), Che12_52 (A2), Cookiedough_52 (A6), D29_49 (A2), Darrell_52 (A9), Drake55_52 (A2), EagleEye_52 (A16), Echild_50 (A2), EmyBug_49 (A9), Fameo_50 (A2), First_0052 (A2), Flare16_50 (A2), Gail_54 (A14), GaugeLDP_48 (A2), GreedyLawyer_52 (A6), Helmet_54 (A6), Hexamo_52 (A6), Hoot_47 (A6), HortumSL17_50 (A9), Indra_55 (A6), Jeffabunny_52 (A6), JewelBug_53 (A6), Jordennis_52 (A6), JoshKayV_52 (A2), Journey13_44 (A2), Kipper29_52 (A6), L5_49 (A2), LilTurb_51 (A2), Lilbunny_51 (A6), Loser_52 (A2), Lucyedi_51 (A16), MiculUcigas_50 (A2), Myxus_50 (A9), NaSiaTalie_50 (A2), Newrala_52 (A6), PackMan_49 (A9), Ph8s_52 (A2), Phaded_51 (A2), Polyphemus_54 (A6), Pukovnik_49 (A2), SemperFi_51 (A2), Sknot_50 (A2), SmellyB_52 (A6), SororFago_52 (A14), SuperAwesome_52 (A6), SwirlSquare_53 (A2), Temprado_53 (A6), Tristan_49 (A2), Trixie_48 (A2), Trooper_51 (A2), WideWale_51 (A2), Wiks_51 (A6), Zulu_53 (A6),

Start 23:
• Found in 90 of 615 (14.6%) of genes in pham
• Manual Annotations of this start: 82 of 545
• Called 98.9% of time when present

• Phage (with cluster) where this start called: ACFishhook_52 (A3), Aglet_54 (A3), AgronaGT15_52 (A3), Anubis_56 (A3), AugsMagnumOpus_56 (A3), Beauxregard13_53 (A3), Bigflo_53 (A3), BreSam8_53 (A3), BuzzBuzz_51 (A3), Calvinny_53 (A3), ClownCar_53 (A3), Colbster_53 (A3), Croquant_54 (A3), Cullens_53 (A3), DaHudson_53 (A3), Daishi_52 (A3), Dieselweasel_54 (A3), EpicPhail_54 (A3), Farber_53 (A3), Fernando_53 (A3), Gemma_52 (A3), GingkoMaracino_53 (A3), Grif_53 (A3), Groupthink_54 (A3), Grub_53 (A3), Grum1_53 (A3), GtownJaz_53 (A3), Gwennie_52 (A3), HashRod_54 (A3), HaveUMetTed_54 (A3), Heliosoles_52 (A3), Hercules11_53 (A3), JHC117_53 (A3), JenCasNa_54 (A3), JeppNRM_54 (A3), Jobu08_52 (A3), KADY_53 (A3), Kalb97_54 (A3), Kalnoky_54 (A3), LBerry_54 (A3), LarryKay_53 (A3), Lilith_54 (A3), Louie6_52 (A3), Lowa_53 (A3), LugYA_56 (A3), MadMarie_53 (A3), Mainiac_53 (A3), Malinsilva_55 (A3), Manu_53 (A3), MarQuardt_53 (A3), Marie_53 (A3), Marius_54 (A3), Methuselah_49 (A3), Microwolf_53 (A3), Misomonster_54 (A3), MoneyMay_53 (A3), Montavir_52 (A3), MuchMore_56 (A3), OlanP_52 (A3), Ollie_53 (A3), P28Green_54 (A3), PGHhamlin_55 (A3), Pawn_53 (A3), Pembroke_53 (A3), Penny1_54 (A3), PhishRPhriends_51 (A3), Phoebe_54 (A3), Phoxy_53 (A3), Phranny_54 (A3), PotatoSplit_55 (A3), PurpleHaze_53 (A3), Reba_53 (A3), Rummer_52 (A3), Sabia_53 (A3), Sabinator_52 (A3), Snickers_53 (A3), SoYo_53 (A3), SoilDragon_53 (A3), Soshari_55 (A3), Spike509_53 (A3), Stagni_53 (A3), StepMih_53 (A3), Taurus_54 (A3), Tiffany_53 (A3), TinyPebbles_52 (A3), Vix_53 (A3), Watson_53 (A3), Wooldri_55 (A3), Zetzy_52 (A3),

Start 24:
• Found in 1 of 615 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 545
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Nedarya_49 (A15),

Start 25:
• Found in 270 of 615 (43.9%) of genes in pham
• Manual Annotations of this start: 164 of 545
• Called 74.1% of time when present
• Phage (with cluster) where this start called: AN9_53 (A2), ANI8_53 (A2), AbbyPaige_52 (A2), Adzzy_52 (A2), Alma_50 (A9), Anaysia_54 (A15), Aneem_51 (A11), Anon_50 (A15), Anselm_51 (A2), Anthony_46 (A20), Arissanae_49 (A9), Ayanochan_51 (A9), BABullseye_46 (A6), Bachome_52 (A11), Bactobuster_49 (A2), Battleship_56 (A15), Beemo_50 (A9), Bellris_49 (A9), BengiVuitton_52 (A2), BiancaTri92_50 (A2), Blinn1_55 (A6), BogosyJay_49 (A9), Boohoo_54 (A15), Bowtie_51 (A11), Bud_50 (A11), Bugsy_52 (A2), C3_48 (A2), Candra_52 (A6), Caraxes_50 (A2), Celestialunch_49 (A9), Charm_49 (A9), ChipMunk_52 (A2), CloudWang3_52 (A6), CogOmlette_49 (A9), Colin_50 (A2), Conquerage_50 (A9), Crucio_50 (A2), D32_51 (A2), DBQu4n_52 (A2), DaVinci_51 (A6), Dalmatian_51 (A2), DeerParkTS_48 (A2), DekHockey33_54 (A15), Deloris_51 (A2), DelvinSonDorr_50 (A6), Dignity_52 (A2), Dorothea_52 (A6), DreamTeam1_49 (A9), DudeLittle_49 (A2), Duplo_52 (A2), Ebony_50 (A11), EdogawaKiddo_48 (A9), Eidsmoe_50 (A9), Elephantoon_49 (A9), Elle_48 (A15), Epsocamisio_52 (A15), Equemioh13_51 (A2), EricB_52 (A6), Et2Brutus_49 (A11), ExplosioNervosa_50 (A9), Fayely_50 (A9), Fibonacci_50 (A11), FiringLine_50 (A2), Flaverint_51 (A11), ForesterFrank_48 (A2), Garak_54 (A6), Georgie2_51 (A2), Gilberta_51 (A11), Gratitude_50 (A2), Gruunaga_52 (A6), Hanray_48 (A9), HarryHoudini_51 (A2), Heffalump_49 (A2), Herbertwm_50 (A2), HippoHollow_50 (A2), Holex_49 (A9), Hutc2_50 (A11), Insomnia_51 (A11), IronMan_50 (A2), Isiphiwo_50 (A6),

Iwokeuplikedis_53 (A2), JSwag_53 (A15), Jaan_50 (A2), Jabith_51 (A11), Jeeves_54 (A14), Jerm_52 (A2), Jiawan_48 (A9), Joselito_51 (A11), Jsquared_48 (A2), Kalpine_48 (A2), KatherineG_55 (A15), Kazan_53 (A6), Kerberos_52 (A2), Keziacharles14_50 (A9), Kimba_50 (A11), KingCyrus_52 (A2), Kinmap_47 (A21), Klodlith_50 (A9), Koduck_51 (A2), Koko_53 (A6), LadyBird_55 (A2), Landor_50 (A2), LastResort_53 (A15), Leogania_50 (A2), Lilleskat_48 (A9), LionsBait_52 (A2), LoneWolf_51 (A9), Looper_54 (A15), Luchador_54 (A14), Lucivia_51 (A11), MaCh_51 (A11), Mabel_50 (A11), MajorMajor_49 (A2), Maminiaina_49 (A9), McFly_52 (A6), MegTheThird_49 (A9), MinecraftSteve_55 (A15), Minispark_49 (A9), MissWhite_49 (A2), Mulciber_50 (A11), Munch_51 (A11), Naji_52 (A2), Nebulosus_53 (A15), Neeharika16_51 (A6), NicoleTera_49 (A2), Odin_49 (A2), Onglai_48 (A9), Oofda_54 (A15), Orange_50 (A11), PainterBoy_51 (A16), Petersenfast_49 (A11), Phaeder_50 (A9), Phonnegut_50 (A9), Pioneer_50 (A9), Pmask_52 (A6), Pomar16_52 (A2), Power_49 (A2), Priamo_54 (A6), Priya_50 (A9), Qobbit_50 (A9), QueenB2_49 (A2), QueenBeesly_50 (A2), Rahalelujah_50 (A9), Ravana_56 (A15), ReMo_53 (A15), RedRock_52 (A2), Remus_54 (A15), Retro23_51 (A2), Roksolana_53 (A6), Rosalind_53 (A15), RyeScarlet_51 (A9), Sachima_47 (A9), Salz_49 (A11), Saskia_51 (A11), Scherzo_50 (A9), Serenity_50 (A2), Sham4_50 (A11), ShayRa_55 (A15), SheaKeira_49 (A9), Smeagan_53 (A2), SnapTap_50 (A2), Snape_50 (A11), Soups_55 (A15), Spouty_50 (A9), StarStuff_52 (A2), Strosahl_54 (A15), Sunhee_53 (A14), SuperCallie99_51 (A6), Superchunk_49 (A2), SweetiePie_50 (A2), Switzerland_54 (A15), TarsusIV_49 (A2), Terrific_53 (A2), Timothy_50 (A11), TinyTimmy_50 (A11), TipsytheTRex_46 (A2), Toaka_50 (A9), Tomathan_52 (A2), ToneTone_49 (A6), Travvers_52 (A2), Tubs_50 (A9), Tucker_53 (A6), Turbido_51 (A2), Ugenie5_47 (A9), Updawg_51 (A2), VA6_51 (A2), VC3_53 (A2), Vanisoa_50 (A9), VohminGhazi_52 (A6), Waits_54 (A15), Warrior24_56 (A15), WeiHuaDA_52 (A2), Whabigail7_51 (A2), Wolpertinger_49 (A11), WorldCup_49 (A9), WunderPhul_52 (A6), XianYue_49 (A2), Yecey3_51 (A9), Yokurt_52 (A6), Zaka_52 (A6),

Start 27:
• Found in 62 of 615 (10.1%) of genes in pham
• Manual Annotations of this start: 31 of 545
• Called 71.0% of time when present
• Phage (with cluster) where this start called: Airmid_43 (A5), Aragog_41 (A5), Archetta_42 (A5), BabyJohn_48 (A3), Benedict_45 (A5), BlueBird_52 (A3), Bonamassa_43 (A5), Bugatti_51 (A3), Chadwick_46 (A5), Chiqui_48 (A3), Clammy_51 (A3), Cuco_42 (A5), Discoknowium_41 (A5), DropBear_50 (A3), ElTiger69_44 (A5), EtoileNova_50 (A3), Florence4_42 (A5), Fred313_50 (A3), George_42 (A5), HelDan_50 (A3), HuhtaEnerson15_43 (A5), Jabiru_43 (A5), Kachowdy_50 (A3), LittleCherry_43 (A5), Marchesa_50 (A3), Micasa_44 (A5), Milcery_43 (A5), Naca_44 (A5), Panamaxus_47 (A3), PetterN_46 (A5), Phlorence_41 (A5), PickleBack_42 (A5), Pistachio_52 (A3), Popcicle_49 (A3), Prinashe11_43 (A5), Roimos_50 (A3), SaturnRing_51 (A3), Scorpia_46 (A5), Swirley_45 (A5), TNguyen7_51 (A3), Tarynearal_41 (A5), Twigg_43 (A5), UnionJack_43 (A5), Zarafa_50 (A3),

Start 28:
• Found in 261 of 615 (42.4%) of genes in pham
• Manual Annotations of this start: 142 of 545
• Called 55.9% of time when present
• Phage (with cluster) where this start called: AbbysRanger_48 (A4), Abdiel_49 (A4), Achebe_47 (A4), Albee_49 (A4), Alberto7_50 (A4), Annyong_49 (A4), Arturo_48 (A4),

AvatarAhPeg_47 (A4), Avle17_49 (A4), Baby16_49 (A4), Backyardigan_47 (A4), Badger_47 (A4), BangNhom_50 (A4), Bartimeaus_49 (A4), BellusTerra_50 (A4), Blackmoor_49 (A4), Bombshell_49 (A4), Broseidon_49 (A4), Bruiser_48 (A4), BubbleTrouble_48 (A4), Bumblebee11_47 (A4), Burger_47 (A4), Bxz2_49 (A3), Caelakin_49 (A4), Camperdownii_47 (A4), CentreCat_49 (A4), Cerulean_50 (A4), ChampagnePapi_51 (A4), Chaph_49 (A4), Cici_48 (A4), Cindaradix_46 (A4), Cintron_48 (A4), Citius_49 (A4), Clarenza_48 (A4), Cocoaberry_49 (A4), Commander_49 (A4), Connomayer_49 (A4), Datway_48 (A4), Deano_48 (A4), Dhanush_49 (A4), DirtyDunning_48 (A4), Druantia_49 (A4), Eagle_49 (A4), Eapen_49 (A4), Eris_48 (A4), Eros_49 (A4), Eurydice_50 (A4), Florean_49 (A4), Flux_49 (A4), Funston_48 (A4), Gadost_49 (A4), HamSlice_48 (A4), Happiness_48 (A4), Houdini22_49 (A4), Huxley_48 (A4), ICleared_49 (A4), Iceman_49 (A4), Iracema64_50 (A4), Jaykayelowell_47 (A4), JetBlade_49 (A4), JoongJeon_48 (A4), KFPoly_48 (A4), Kampy_49 (A4), Katalie136_48 (A4), KekoraPapaka_49 (A4), Kingmustik0402_49 (A4), Koan_47 (A4), Koreni_48 (A4), Kratark_49 (A4), Kremtemulon_49 (A4), Kyee_49 (A4), LHTSCC_51 (A4), LappelDuVide_49 (A4), Lemur_49 (A4), LeoAvram_49 (A4), LittleB_49 (A4), LittleGuy_49 (A4), LochMonster_50 (A4), Lorenzo_49 (A4), Lunsford_50 (A4), MA5_50 (A3), Maverick_49 (A4), Maxo_50 (A4), Mayonnaise_48 (A4), Mazhar510_49 (A4), Medusa_49 (A4), MeeZee_49 (A4), Melvin_51 (A4), Millski_48 (A4), Miramae_47 (A4), Morpher26_48 (A4), Morrow_50 (A4), Mundrea_48 (A4), Nebs_50 (A4), Nemo27_49 (A4), Noelle_49 (A4), NorthStar_48 (A4), NotAPhaseMom_49 (A4), Nyxis_49 (A4), OKaNui_49 (A4), Obama12_50 (A4), Ohfah_50 (A4), Palestino_48 (A4), Peaches_49 (A4), Perplexer_48 (A4), PeterPeter_49 (A4), PetiteSangsue_48 (A4), Phacado_49 (A4), Phelipe_50 (A4), Phighter1804_49 (A4), Phontbonne_49 (A4), Pipcraft_47 (A4), Polymorphads_50 (A4), Pumbaa_49 (A4), Relief_48 (A4), RockieBear_48 (A4), Romney_49 (A4), Roosevelt_48 (A4), Rosa24_48 (A4), Ruin_49 (A4), Sabertooth_49 (A4), Scamp_49 (A4), SenorClean_49 (A4), Shaka_49 (A4), SheldonCooper_51 (A4), Shygu2_48 (A4), Skipitt_48 (A4), Sparxx_50 (A4), Spino_48 (A4), Stasia_48 (A4), SteMason_48 (A4), Stink_48 (A4), Sultana_49 (A4), Taquarus_49 (A4), TinaFeyge_49 (A4), Tinybot_48 (A4), TiroTheta9_49 (A4), TroyPia_50 (A4), TygerBlood_49 (A4), Ulysses_48 (A4), Wander_49 (A4), Wilbur_49 (A4), Wile_48 (A4), Wizard007_49 (A4), Xena_47 (A4), YoSam321_49 (A4),

Start 29:
• Found in 1 of 615 (0.2%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: LogiBear_53 (A15),

Start 30:
• Found in 3 of 615 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 545
• Called 100.0% of time when present
• Phage (with cluster) where this start called: FlyCatcher_54 (A7), Sheen_50 (A7), Toro_52 (A7),

Start 31:
• Found in 1 of 615 (0.2%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Phlei_39 (A13),

Start 32:
• Found in 38 of 615 (6.2%) of genes in pham
• Manual Annotations of this start: 36 of 545
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alatin_39 (CA), Alpacados_38 (CA), AngryOrchard_37 (CA), AppleCloud_37 (CA), Belenaria_39 (CA), BobbyDazzler_39 (CA), Bonanza_39 (CA), Bradshaw_39 (CA), Bryce_39 (CA), CosmicSans_39 (CA), Dinger_39 (CA), Erik_39 (CA), Espica_39 (CA), Gollum_39 (CA), Harlequin_39 (CA), Hiro_39 (CA), Jester_39 (CA), Krishelle_39 (CA), Lillie_39 (CA), Naiad_39 (CA), Nancinator_39 (CA), Natosaleda_39 (CA), Partridge_39 (CA), PhailMary_38 (CA), Phrankenstein_39 (CA), RER2_32 (CA), RGL3_34 (CA), Rasputin_39 (CA), RexFury_39 (CA), Rhodalysa_39 (CA), Shuman_39 (CA), StCroix_39 (CA), Swann_39 (CA), TWAMP_39 (CA), Takoda_39 (CA), UhSalsa_39 (CA), Yogi_39 (CA), Yoncess_39 (CA),

Summary by clusters:

There are 17 clusters represented in this pham: A15, A21, A22, A16, A11, A13, A14, CA, A18, A20, A3, A2, A5, A4, A7, A6, A9,

Info for manual annotations of cluster A11:
•Start number 25 was manually annotated 24 times for cluster A11.

Info for manual annotations of cluster A14:
•Start number 21 was manually annotated 2 times for cluster A14.
•Start number 25 was manually annotated 3 times for cluster A14.

Info for manual annotations of cluster A15:
•Start number 24 was manually annotated 1 time for cluster A15.
•Start number 25 was manually annotated 23 times for cluster A15.

Info for manual annotations of cluster A16:
•Start number 21 was manually annotated 2 times for cluster A16.
•Start number 25 was manually annotated 1 time for cluster A16.

Info for manual annotations of cluster A18:
•Start number 18 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A2:
•Start number 21 was manually annotated 29 times for cluster A2.
•Start number 25 was manually annotated 62 times for cluster A2.

Info for manual annotations of cluster A20:
•Start number 25 was manually annotated 1 time for cluster A20.

Info for manual annotations of cluster A22:
•Start number 21 was manually annotated 1 time for cluster A22.

Info for manual annotations of cluster A3:
•Start number 15 was manually annotated 18 times for cluster A3.
•Start number 23 was manually annotated 82 times for cluster A3.

•Start number 27 was manually annotated 7 times for cluster A3.
•Start number 28 was manually annotated 2 times for cluster A3.

Info for manual annotations of cluster A4:
•Start number 13 was manually annotated 1 time for cluster A4.
•Start number 14 was manually annotated 1 time for cluster A4.
•Start number 28 was manually annotated 140 times for cluster A4.

Info for manual annotations of cluster A5:
•Start number 27 was manually annotated 24 times for cluster A5.

Info for manual annotations of cluster A6:
•Start number 1 was manually annotated 5 times for cluster A6.
•Start number 20 was manually annotated 1 time for cluster A6.
•Start number 21 was manually annotated 20 times for cluster A6.
•Start number 25 was manually annotated 22 times for cluster A6.

Info for manual annotations of cluster A7:
•Start number 30 was manually annotated 1 time for cluster A7.

Info for manual annotations of cluster A9:
•Start number 21 was manually annotated 7 times for cluster A9.
•Start number 25 was manually annotated 28 times for cluster A9.

Info for manual annotations of cluster CA:
•Start number 32 was manually annotated 36 times for cluster CA.

Gene Information:

Gene: 20ES_53 Start: 34234, Stop: 33689, Start Num: 21
Candidate Starts for 20ES_53:
(Start: 21 @34234 has 61 MA's), (Start: 25 @34219 has 164 MA's), (50, 34108), (66, 34063), (73, 33988), (82, 33949), (97, 33799), (100, 33781), (102, 33751),

Gene: ACFishhook_52 Start: 33821, Stop: 33231, Start Num: 23
Candidate Starts for ACFishhook_52:
(Start: 23 @33821 has 82 MA's), (Start: 28 @33815 has 142 MA's), (54, 33671), (59, 33662), (67, 33635), (76, 33551), (97, 33347), (102, 33299),

Gene: AN9_53 Start: 33887, Stop: 33309, Start Num: 25
Candidate Starts for AN9_53:
(Start: 21 @33902 has 61 MA's), (Start: 25 @33887 has 164 MA's), (55, 33773), (58, 33767), (66, 33740), (70, 33692), (74, 33662), (89, 33596), (90, 33593), (92, 33584), (94, 33575), (97, 33422),

Gene: ANI8_53 Start: 33887, Stop: 33309, Start Num: 25
Candidate Starts for ANI8_53:
(Start: 21 @33902 has 61 MA's), (Start: 25 @33887 has 164 MA's), (55, 33773), (58, 33767), (66, 33740), (70, 33692), (74, 33662), (89, 33596), (90, 33593), (92, 33584), (94, 33575), (97, 33422),

Gene: AbbyPaige_52 Start: 34144, Stop: 33626, Start Num: 25
Candidate Starts for AbbyPaige_52:

(Start: 21 @34159 has 61 MA's), (Start: 25 @34144 has 164 MA's), (41, 34060), (58, 34024), (69, 33952), (71, 33946), (73, 33922), (74, 33919), (76, 33910), (82, 33883), (97, 33736), (100, 33718), (102, 33688),

Gene: AbbysRanger_48 Start: 33378, Stop: 32839, Start Num: 28
Candidate Starts for AbbysRanger_48:
(Start: 13 @33435 has 1 MA's), (Start: 14 @33420 has 1 MA's), (Start: 28 @33378 has 142 MA's), (76, 33120), (83, 33087), (93, 33048), (104, 32880),

Gene: Abdiel_49 Start: 33389, Stop: 32850, Start Num: 28
Candidate Starts for Abdiel_49:
(Start: 13 @33446 has 1 MA's), (Start: 14 @33431 has 1 MA's), (Start: 28 @33389 has 142 MA's), (76, 33131), (83, 33098), (93, 33059), (104, 32891),

Gene: Achebe_47 Start: 33361, Stop: 32822, Start Num: 28
Candidate Starts for Achebe_47:
(Start: 13 @33418 has 1 MA's), (Start: 14 @33403 has 1 MA's), (Start: 28 @33361 has 142 MA's), (76, 33103), (83, 33070), (93, 33031), (104, 32863),

Gene: Adzzy_52 Start: 32649, Stop: 32053, Start Num: 25
Candidate Starts for Adzzy_52:
(Start: 21 @32664 has 61 MA's), (Start: 25 @32649 has 164 MA's), (60, 32496), (70, 32421), (94, 32304), (95, 32283), (97, 32163), (98, 32160), (102, 32118),

Gene: Aglet_54 Start: 33857, Stop: 33267, Start Num: 23
Candidate Starts for Aglet_54:
(Start: 23 @33857 has 82 MA's), (Start: 28 @33851 has 142 MA's), (54, 33707), (59, 33698), (67, 33671), (76, 33587), (97, 33383), (102, 33335),

Gene: AgronaGT15_52 Start: 33705, Stop: 33118, Start Num: 23
Candidate Starts for AgronaGT15_52:
(Start: 23 @33705 has 82 MA's), (Start: 28 @33699 has 142 MA's), (54, 33561), (59, 33552), (67, 33525), (68, 33522), (72, 33462), (76, 33441), (97, 33234), (102, 33186),

Gene: Airmid_43 Start: 32100, Stop: 31576, Start Num: 27
Candidate Starts for Airmid_43:
(Start: 27 @32100 has 31 MA's), (58, 31968), (62, 31962), (86, 31818),

Gene: Alatin_39 Start: 29865, Stop: 29341, Start Num: 32
Candidate Starts for Alatin_39:
(Start: 32 @29865 has 36 MA's), (54, 29760), (97, 29448), (99, 29439), (100, 29430), (102, 29400),

Gene: Albee_49 Start: 33388, Stop: 32849, Start Num: 28
Candidate Starts for Albee_49:
(Start: 13 @33445 has 1 MA's), (Start: 14 @33430 has 1 MA's), (Start: 28 @33388 has 142 MA's), (76, 33130), (83, 33097), (93, 33058), (104, 32890),

Gene: Alberto7_50 Start: 33725, Stop: 33186, Start Num: 28
Candidate Starts for Alberto7_50:
(Start: 13 @33782 has 1 MA's), (Start: 14 @33767 has 1 MA's), (Start: 28 @33725 has 142 MA's), (76, 33467), (83, 33434), (93, 33395), (104, 33227),

Gene: Aliter_50 Start: 33562, Stop: 33032, Start Num: 21

Candidate Starts for Aliter_50:
(Start: 21 @33562 has 61 MA's), (Start: 25 @33547 has 164 MA's), (44, 33454), (58, 33430), (71, 33352), (82, 33289), (97, 33139),

Gene: Alma_50 Start: 33745, Stop: 33188, Start Num: 25
Candidate Starts for Alma_50:
(Start: 21 @33760 has 61 MA's), (Start: 25 @33745 has 164 MA's), (49, 33649), (50, 33646), (58, 33625), (72, 33535), (94, 33436), (97, 33295),

Gene: Alpacados_38 Start: 29770, Stop: 29246, Start Num: 32
Candidate Starts for Alpacados_38:
(Start: 32 @29770 has 36 MA's), (54, 29665), (97, 29353), (99, 29344), (100, 29335), (102, 29305),

Gene: Anaysia_54 Start: 32758, Stop: 32216, Start Num: 25
Candidate Starts for Anaysia_54:
(Start: 25 @32758 has 164 MA's), (Start: 28 @32752 has 142 MA's), (51, 32647), (63, 32620), (64, 32617), (77, 32506), (80, 32485), (83, 32476), (85, 32467), (97, 32320), (101, 32275),

Gene: Aneem_51 Start: 33271, Stop: 32702, Start Num: 25
Candidate Starts for Aneem_51:
(Start: 25 @33271 has 164 MA's), (54, 33136), (87, 32971), (97, 32815),

Gene: AngryOrchard_37 Start: 29729, Stop: 29205, Start Num: 32
Candidate Starts for AngryOrchard_37:
(Start: 32 @29729 has 36 MA's), (54, 29624), (97, 29312), (99, 29303), (100, 29294), (102, 29264),

Gene: AnnaL29_52 Start: 34705, Stop: 34160, Start Num: 21
Candidate Starts for AnnaL29_52:
(Start: 21 @34705 has 61 MA's), (Start: 25 @34690 has 164 MA's), (58, 34570), (66, 34543), (69, 34498), (71, 34492), (73, 34468), (81, 34432), (82, 34429), (85, 34420), (97, 34273), (100, 34255), (102, 34225),

Gene: Annyong_49 Start: 33433, Stop: 32894, Start Num: 28
Candidate Starts for Annyong_49:
(Start: 13 @33490 has 1 MA's), (Start: 14 @33475 has 1 MA's), (Start: 28 @33433 has 142 MA's), (76, 33175), (83, 33142), (93, 33103), (104, 32935),

Gene: Anon_50 Start: 32020, Stop: 31481, Start Num: 25
Candidate Starts for Anon_50:
(Start: 25 @32020 has 164 MA's), (58, 31894), (83, 31747), (104, 31534), (107, 31501),

Gene: Anselm_51 Start: 34069, Stop: 33545, Start Num: 25
Candidate Starts for Anselm_51:
(Start: 21 @34084 has 61 MA's), (Start: 25 @34069 has 164 MA's), (58, 33955), (66, 33928), (71, 33877), (73, 33853), (82, 33814), (85, 33805), (97, 33655), (100, 33637), (102, 33607),

Gene: Anthony_46 Start: 31582, Stop: 31001, Start Num: 25
Candidate Starts for Anthony_46:
(17, 31606), (Start: 25 @31582 has 164 MA's), (39, 31510), (60, 31441), (70, 31366), (79, 31306), (83, 31297), (93, 31255), (94, 31249), (97, 31108), (103, 31054),

Gene: Anubis_56 Start: 33743, Stop: 33153, Start Num: 23
Candidate Starts for Anubis_56:

(Start: 23 @33743 has 82 MA's), (Start: 28 @33737 has 142 MA's), (54, 33593), (59, 33584), (67, 33557), (76, 33473), (97, 33269), (102, 33221),

Gene: AppleCloud_37 Start: 29816, Stop: 29292, Start Num: 32
Candidate Starts for AppleCloud_37:
(Start: 32 @29816 has 36 MA's), (54, 29711), (97, 29399), (99, 29390), (100, 29381), (102, 29351),

Gene: Aragog_41 Start: 32083, Stop: 31556, Start Num: 27
Candidate Starts for Aragog_41:
(Start: 27 @32083 has 31 MA's), (58, 31948), (62, 31942), (86, 31798), (106, 31579),

Gene: Archetta_42 Start: 32613, Stop: 32086, Start Num: 27
Candidate Starts for Archetta_42:
(Start: 27 @32613 has 31 MA's), (58, 32478), (62, 32472), (86, 32328), (106, 32109),

Gene: Arissanae_49 Start: 34251, Stop: 33733, Start Num: 25
Candidate Starts for Arissanae_49:
(Start: 21 @34266 has 61 MA's), (Start: 25 @34251 has 164 MA's), (45, 34158), (58, 34137), (69, 34065), (73, 34035), (82, 33996), (97, 33840),

Gene: Artemis2UCLA_52 Start: 32678, Stop: 31923, Start Num: 1
Candidate Starts for Artemis2UCLA_52:
(Start: 1 @32678 has 5 MA's), (2, 32663), (3, 32642), (4, 32612), (6, 32606), (Start: 25 @32480 has 164 MA's), (70, 32270), (71, 32267), (82, 32204), (85, 32195), (97, 32033), (98, 32030),

Gene: Arturo_48 Start: 33662, Stop: 33129, Start Num: 28
Candidate Starts for Arturo_48:
(Start: 28 @33662 has 142 MA's), (76, 33404), (83, 33371), (93, 33332), (104, 33170),

Gene: AugsMagnumOpus_56 Start: 33848, Stop: 33258, Start Num: 23
Candidate Starts for AugsMagnumOpus_56:
(Start: 23 @33848 has 82 MA's), (Start: 28 @33842 has 142 MA's), (54, 33698), (59, 33689), (67, 33662), (76, 33578), (97, 33374), (102, 33326),

Gene: AvatarAhPeg_47 Start: 33169, Stop: 32621, Start Num: 28
Candidate Starts for AvatarAhPeg_47:
(Start: 28 @33169 has 142 MA's), (62, 33022), (83, 32872), (98, 32710), (104, 32662),

Gene: Avle17_49 Start: 33385, Stop: 32846, Start Num: 28
Candidate Starts for Avle17_49:
(Start: 13 @33442 has 1 MA's), (Start: 14 @33427 has 1 MA's), (Start: 28 @33385 has 142 MA's), (76, 33127), (83, 33094), (93, 33055), (104, 32887),

Gene: Ayanochan_51 Start: 33705, Stop: 33190, Start Num: 25
Candidate Starts for Ayanochan_51:
(Start: 21 @33720 has 61 MA's), (Start: 25 @33705 has 164 MA's), (44, 33612), (58, 33588), (71, 33510), (82, 33447), (97, 33297),

Gene: BABullseye_46 Start: 30456, Stop: 29878, Start Num: 25
Candidate Starts for BABullseye_46:
(Start: 21 @30471 has 61 MA's), (Start: 25 @30456 has 164 MA's), (52, 30345), (60, 30327), (88, 30165), (94, 30138), (97, 29988), (98, 29985),

Gene: Baby16_49 Start: 33399, Stop: 32860, Start Num: 28
Candidate Starts for Baby16_49:
(Start: 13 @33456 has 1 MA's), (Start: 14 @33441 has 1 MA's), (Start: 28 @33399 has 142 MA's), (76, 33141), (83, 33108), (93, 33069), (104, 32901),

Gene: BabyBack_49 Start: 34396, Stop: 33866, Start Num: 21
Candidate Starts for BabyBack_49:
(Start: 21 @34396 has 61 MA's), (Start: 25 @34381 has 164 MA's), (58, 34276), (72, 34189), (76, 34168), (82, 34138), (83, 34135), (97, 33976), (102, 33931),

Gene: BabyJohn_48 Start: 33689, Stop: 33126, Start Num: 27
Candidate Starts for BabyJohn_48:
(Start: 13 @33746 has 1 MA's), (Start: 14 @33731 has 1 MA's), (Start: 15 @33719 has 18 MA's), (Start: 27 @33689 has 31 MA's), (36, 33620), (60, 33542), (67, 33506), (76, 33422), (104, 33167),

Gene: BabyRay_50 Start: 33653, Stop: 33060, Start Num: 15
Candidate Starts for BabyRay_50:
(Start: 13 @33680 has 1 MA's), (Start: 14 @33665 has 1 MA's), (Start: 15 @33653 has 18 MA's), (Start: 27 @33623 has 31 MA's), (36, 33554), (60, 33476), (66, 33443), (67, 33440), (76, 33356), (82, 33323), (104, 33101),

Gene: Bachome_52 Start: 33251, Stop: 32685, Start Num: 25
Candidate Starts for Bachome_52:
(Start: 25 @33251 has 164 MA's), (65, 33098), (87, 32957), (97, 32798),

Gene: Backyardigan_47 Start: 33394, Stop: 32855, Start Num: 28
Candidate Starts for Backyardigan_47:
(Start: 13 @33451 has 1 MA's), (Start: 14 @33436 has 1 MA's), (Start: 28 @33394 has 142 MA's), (76, 33136), (83, 33103), (93, 33064), (104, 32896),

Gene: Bactobuster_49 Start: 34631, Stop: 34086, Start Num: 25
Candidate Starts for Bactobuster_49:
(Start: 21 @34646 has 61 MA's), (Start: 25 @34631 has 164 MA's), (68, 34502), (70, 34460), (78, 34403), (83, 34391), (88, 34370), (94, 34343), (97, 34193), (100, 34175),

Gene: Badger_47 Start: 33362, Stop: 32823, Start Num: 28
Candidate Starts for Badger_47:
(Start: 13 @33419 has 1 MA's), (Start: 14 @33404 has 1 MA's), (Start: 28 @33362 has 142 MA's), (76, 33104), (83, 33071), (93, 33032), (104, 32864),

Gene: Baehexic_49 Start: 33840, Stop: 33316, Start Num: 21
Candidate Starts for Baehexic_49:
(Start: 21 @33840 has 61 MA's), (Start: 25 @33825 has 164 MA's), (41, 33756), (58, 33720), (66, 33693), (69, 33648), (71, 33642), (73, 33618), (76, 33606), (82, 33579), (85, 33570), (89, 33552), (97, 33429),

Gene: BangNhom_50 Start: 33807, Stop: 33271, Start Num: 28
Candidate Starts for BangNhom_50:
(11, 33870), (Start: 28 @33807 has 142 MA's), (76, 33549), (83, 33516), (93, 33477), (104, 33312),

Gene: Bartimeaus_49 Start: 33390, Stop: 32851, Start Num: 28
Candidate Starts for Bartimeaus_49:

(Start: 13 @33447 has 1 MA's), (Start: 14 @33432 has 1 MA's), (Start: 28 @33390 has 142 MA's), (76, 33132), (83, 33099), (93, 33060), (104, 32892),

Gene: Battleship_56 Start: 33029, Stop: 32463, Start Num: 25
Candidate Starts for Battleship_56:
(Start: 25 @33029 has 164 MA's), (Start: 28 @33023 has 142 MA's), (51, 32918), (63, 32891), (64, 32888), (77, 32777), (80, 32756), (83, 32747), (85, 32738), (104, 32519),

Gene: Beauxregard13_53 Start: 33860, Stop: 33270, Start Num: 23
Candidate Starts for Beauxregard13_53:
(Start: 23 @33860 has 82 MA's), (Start: 28 @33854 has 142 MA's), (54, 33710), (59, 33701), (67, 33674), (76, 33590), (97, 33386), (102, 33338),

Gene: Beemo_50 Start: 33717, Stop: 33154, Start Num: 25
Candidate Starts for Beemo_50:
(Start: 21 @33732 has 61 MA's), (Start: 25 @33717 has 164 MA's), (60, 33591), (72, 33501), (94, 33402), (97, 33261),

Gene: Belenaria_39 Start: 29797, Stop: 29273, Start Num: 32
Candidate Starts for Belenaria_39:
(Start: 32 @29797 has 36 MA's), (54, 29692), (97, 29380), (99, 29371), (100, 29362), (102, 29332),

Gene: Bellris_49 Start: 33188, Stop: 32661, Start Num: 25
Candidate Starts for Bellris_49:
(Start: 21 @33203 has 61 MA's), (Start: 25 @33188 has 164 MA's), (48, 33089), (58, 33065), (71, 32987), (73, 32963), (82, 32924), (97, 32768),

Gene: BellusTerra_50 Start: 33389, Stop: 32850, Start Num: 28
Candidate Starts for BellusTerra_50:
(Start: 13 @33446 has 1 MA's), (Start: 14 @33431 has 1 MA's), (Start: 28 @33389 has 142 MA's), (76, 33131), (83, 33098), (93, 33059), (104, 32891),

Gene: Benedict_45 Start: 32275, Stop: 31751, Start Num: 27
Candidate Starts for Benedict_45:
(Start: 27 @32275 has 31 MA's), (58, 32143), (62, 32137), (86, 31993),

Gene: BengiVuitton_52 Start: 34166, Stop: 33642, Start Num: 25
Candidate Starts for BengiVuitton_52:
(Start: 21 @34181 has 61 MA's), (Start: 25 @34166 has 164 MA's), (50, 34061), (66, 34016), (76, 33929), (82, 33902), (97, 33752), (100, 33734), (102, 33704),

Gene: BennyP_53 Start: 32923, Stop: 32330, Start Num: 21
Candidate Starts for BennyP_53:
(Start: 21 @32923 has 61 MA's), (Start: 25 @32908 has 164 MA's), (52, 32797), (60, 32779), (88, 32617), (94, 32590), (97, 32440), (98, 32437),

Gene: Benvolio_47 Start: 33106, Stop: 32576, Start Num: 21
Candidate Starts for Benvolio_47:
(Start: 21 @33106 has 61 MA's), (Start: 25 @33091 has 164 MA's), (58, 32977), (66, 32950), (69, 32905), (71, 32899), (73, 32875), (82, 32836), (85, 32827), (97, 32686), (100, 32668), (102, 32638),

Gene: BiancaTri92_50 Start: 34471, Stop: 33944, Start Num: 25
Candidate Starts for BiancaTri92_50:

(Start: 21 @34486 has 61 MA's), (Start: 25 @34471 has 164 MA's), (41, 34387), (58, 34345), (66, 34318), (69, 34273), (71, 34267), (73, 34243), (76, 34231), (82, 34204), (97, 34054), (100, 34036), (102, 34006),

Gene: Bigflo_53 Start: 33856, Stop: 33266, Start Num: 23
Candidate Starts for Bigflo_53:
(Start: 23 @33856 has 82 MA's), (Start: 28 @33850 has 142 MA's), (54, 33706), (59, 33697), (67, 33670), (76, 33586), (97, 33382), (102, 33334),

Gene: Blackmoor_49 Start: 33390, Stop: 32851, Start Num: 28
Candidate Starts for Blackmoor_49:
(Start: 13 @33447 has 1 MA's), (Start: 14 @33432 has 1 MA's), (Start: 28 @33390 has 142 MA's), (76, 33132), (83, 33099), (93, 33060), (104, 32892),

Gene: BlessJoy_53 Start: 33104, Stop: 32358, Start Num: 1
Candidate Starts for BlessJoy_53:
(Start: 1 @33104 has 5 MA's), (2, 33089), (3, 33068), (4, 33038), (6, 33032), (Start: 25 @32906 has 164 MA's), (70, 32696), (71, 32693), (82, 32630), (85, 32621), (97, 32468), (98, 32465),

Gene: Blinn1_55 Start: 32877, Stop: 32299, Start Num: 25
Candidate Starts for Blinn1_55:
(Start: 21 @32892 has 61 MA's), (Start: 25 @32877 has 164 MA's), (56, 32748), (88, 32577), (94, 32550), (97, 32409), (98, 32406),

Gene: Blue7_54 Start: 32748, Stop: 32002, Start Num: 1
Candidate Starts for Blue7_54:
(Start: 1 @32748 has 5 MA's), (2, 32733), (3, 32712), (4, 32682), (6, 32676), (Start: 25 @32550 has 164 MA's), (70, 32340), (71, 32337), (82, 32274), (85, 32265), (97, 32112), (98, 32109),

Gene: BlueBird_52 Start: 33721, Stop: 33158, Start Num: 27
Candidate Starts for BlueBird_52:
(Start: 13 @33778 has 1 MA's), (Start: 14 @33763 has 1 MA's), (Start: 15 @33751 has 18 MA's), (Start: 27 @33721 has 31 MA's), (36, 33652), (60, 33574), (67, 33538), (76, 33454), (104, 33199),

Gene: BobbyDazzler_39 Start: 29844, Stop: 29320, Start Num: 32
Candidate Starts for BobbyDazzler_39:
(Start: 32 @29844 has 36 MA's), (54, 29739), (97, 29427), (99, 29418), (100, 29409), (102, 29379),

Gene: BogosyJay_49 Start: 33444, Stop: 32878, Start Num: 25
Candidate Starts for BogosyJay_49:
(Start: 21 @33459 has 61 MA's), (Start: 25 @33444 has 164 MA's), (49, 33342), (50, 33339), (72, 33228), (94, 33129), (97, 32985),

Gene: Bombshell_49 Start: 33385, Stop: 32846, Start Num: 28
Candidate Starts for Bombshell_49:
(Start: 13 @33442 has 1 MA's), (Start: 14 @33427 has 1 MA's), (Start: 28 @33385 has 142 MA's), (76, 33127), (83, 33094), (93, 33055), (104, 32887),

Gene: Bonamassa_43 Start: 32602, Stop: 32075, Start Num: 27
Candidate Starts for Bonamassa_43:
(Start: 27 @32602 has 31 MA's), (58, 32467), (62, 32461), (86, 32317), (105, 32116), (106, 32098),

Gene: Bonanza_39 Start: 29772, Stop: 29248, Start Num: 32

Candidate Starts for Bonanza_39:
(Start: 32 @29772 has 36 MA's), (54, 29667), (97, 29355), (99, 29346), (100, 29337), (102, 29307),

Gene: Boohoo_54 Start: 32758, Stop: 32216, Start Num: 25
Candidate Starts for Boohoo_54:
(Start: 25 @32758 has 164 MA's), (Start: 28 @32752 has 142 MA's), (51, 32647), (63, 32620), (64, 32617), (77, 32506), (80, 32485), (83, 32476), (85, 32467), (97, 32320), (101, 32275),

Gene: Bowtie_51 Start: 33278, Stop: 32709, Start Num: 25
Candidate Starts for Bowtie_51:
(Start: 25 @33278 has 164 MA's), (54, 33143), (87, 32978), (97, 32822),

Gene: Bradshaw_39 Start: 29798, Stop: 29274, Start Num: 32
Candidate Starts for Bradshaw_39:
(Start: 32 @29798 has 36 MA's), (54, 29693), (97, 29381), (99, 29372), (100, 29363), (102, 29333),

Gene: BreSam8_53 Start: 33850, Stop: 33260, Start Num: 23
Candidate Starts for BreSam8_53:
(Start: 23 @33850 has 82 MA's), (Start: 28 @33844 has 142 MA's), (54, 33700), (59, 33691), (67, 33664), (76, 33580), (97, 33376), (102, 33328),

Gene: Broseidon_49 Start: 33390, Stop: 32851, Start Num: 28
Candidate Starts for Broseidon_49:
(Start: 13 @33447 has 1 MA's), (Start: 14 @33432 has 1 MA's), (Start: 28 @33390 has 142 MA's), (76, 33132), (83, 33099), (93, 33060), (104, 32892),

Gene: Bruiser_48 Start: 33388, Stop: 32849, Start Num: 28
Candidate Starts for Bruiser_48:
(Start: 13 @33445 has 1 MA's), (Start: 14 @33430 has 1 MA's), (Start: 28 @33388 has 142 MA's), (76, 33130), (83, 33097), (93, 33058), (104, 32890),

Gene: Bryce_39 Start: 29773, Stop: 29249, Start Num: 32
Candidate Starts for Bryce_39:
(Start: 32 @29773 has 36 MA's), (54, 29668), (97, 29356), (99, 29347), (100, 29338), (102, 29308),

Gene: BubbleTrouble_48 Start: 33388, Stop: 32849, Start Num: 28
Candidate Starts for BubbleTrouble_48:
(Start: 13 @33445 has 1 MA's), (Start: 14 @33430 has 1 MA's), (Start: 28 @33388 has 142 MA's), (76, 33130), (83, 33097), (93, 33058), (104, 32890),

Gene: Bud_50 Start: 32828, Stop: 32259, Start Num: 25
Candidate Starts for Bud_50:
(Start: 25 @32828 has 164 MA's), (54, 32693), (87, 32528), (97, 32372),

Gene: Bugatti_51 Start: 33721, Stop: 33158, Start Num: 27
Candidate Starts for Bugatti_51:
(Start: 13 @33778 has 1 MA's), (Start: 14 @33763 has 1 MA's), (Start: 15 @33751 has 18 MA's), (Start: 27 @33721 has 31 MA's), (36, 33652), (60, 33574), (67, 33538), (76, 33454), (104, 33199),

Gene: Bugsy_52 Start: 34195, Stop: 33686, Start Num: 25
Candidate Starts for Bugsy_52:
(Start: 21 @34210 has 61 MA's), (Start: 25 @34195 has 164 MA's), (41, 34126), (58, 34090), (66, 34063), (69, 34018), (71, 34012), (73, 33988), (76, 33976), (82, 33949), (85, 33940), (89, 33922), (97,

33799),

Gene: Bumblebee11_47 Start: 33364, Stop: 32825, Start Num: 28
Candidate Starts for Bumblebee11_47:
(Start: 13 @33421 has 1 MA's), (Start: 14 @33406 has 1 MA's), (Start: 28 @33364 has 142 MA's), (76, 33106), (83, 33073), (93, 33034), (104, 32866),

Gene: Burger_47 Start: 33388, Stop: 32849, Start Num: 28
Candidate Starts for Burger_47:
(Start: 13 @33445 has 1 MA's), (Start: 14 @33430 has 1 MA's), (Start: 28 @33388 has 142 MA's), (76, 33130), (83, 33097), (93, 33058), (104, 32890),

Gene: BuzzBuzz_51 Start: 33884, Stop: 33297, Start Num: 23
Candidate Starts for BuzzBuzz_51:
(Start: 23 @33884 has 82 MA's), (Start: 28 @33878 has 142 MA's), (54, 33740), (59, 33731), (67, 33704), (68, 33701), (72, 33641), (76, 33620), (97, 33413), (102, 33365),

Gene: Bxz2_49 Start: 33885, Stop: 33304, Start Num: 28
Candidate Starts for Bxz2_49:
(Start: 23 @33891 has 82 MA's), (Start: 28 @33885 has 142 MA's), (54, 33747), (59, 33738), (67, 33711), (68, 33708), (72, 33648), (76, 33627), (97, 33420), (102, 33372),

Gene: C3_48 Start: 33887, Stop: 33309, Start Num: 25
Candidate Starts for C3_48:
(Start: 21 @33902 has 61 MA's), (Start: 25 @33887 has 164 MA's), (55, 33773), (58, 33767), (66, 33740), (70, 33692), (74, 33662), (89, 33596), (90, 33593), (92, 33584), (94, 33575), (97, 33422),

Gene: CRB1_54 Start: 34574, Stop: 34032, Start Num: 21
Candidate Starts for CRB1_54:
(Start: 21 @34574 has 61 MA's), (Start: 25 @34559 has 164 MA's), (50, 34454), (66, 34409), (69, 34364), (73, 34334), (82, 34295), (97, 34142), (100, 34124), (102, 34094),

Gene: Caelakin_49 Start: 33388, Stop: 32849, Start Num: 28
Candidate Starts for Caelakin_49:
(Start: 13 @33445 has 1 MA's), (Start: 14 @33430 has 1 MA's), (Start: 28 @33388 has 142 MA's), (76, 33130), (83, 33097), (93, 33058), (104, 32890),

Gene: Calvinny_53 Start: 33749, Stop: 33159, Start Num: 23
Candidate Starts for Calvinny_53:
(Start: 23 @33749 has 82 MA's), (Start: 28 @33743 has 142 MA's), (54, 33599), (59, 33590), (67, 33563), (76, 33479), (97, 33275), (102, 33227),

Gene: Camperdownii_47 Start: 33062, Stop: 32523, Start Num: 28
Candidate Starts for Camperdownii_47:
(Start: 13 @33119 has 1 MA's), (Start: 14 @33104 has 1 MA's), (Start: 28 @33062 has 142 MA's), (76, 32804), (83, 32771), (93, 32732), (104, 32564),

Gene: Candra_52 Start: 32814, Stop: 32242, Start Num: 25
Candidate Starts for Candra_52:
(Start: 21 @32829 has 61 MA's), (Start: 25 @32814 has 164 MA's), (52, 32703), (60, 32685), (88, 32523), (94, 32496), (97, 32352), (98, 32349),

Gene: Caraxes_50 Start: 32358, Stop: 31759, Start Num: 25

Candidate Starts for Caraxes_50:
(Start: 21 @32373 has 61 MA's), (Start: 25 @32358 has 164 MA's), (60, 32208), (70, 32133), (77, 32088), (94, 32016), (97, 31869), (98, 31866), (100, 31851), (102, 31824),

Gene: Catalina_51 Start: 33635, Stop: 33105, Start Num: 21
Candidate Starts for Catalina_51:
(Start: 21 @33635 has 61 MA's), (Start: 25 @33620 has 164 MA's), (44, 33527), (58, 33503), (71, 33425), (82, 33362), (97, 33212),

Gene: Caviar_49 Start: 33695, Stop: 33096, Start Num: 15
Candidate Starts for Caviar_49:
(Start: 13 @33722 has 1 MA's), (Start: 14 @33707 has 1 MA's), (Start: 15 @33695 has 18 MA's), (Start: 27 @33665 has 31 MA's), (36, 33596), (60, 33518), (76, 33398), (104, 33137),

Gene: Celestialunch_49 Start: 33272, Stop: 32712, Start Num: 25
Candidate Starts for Celestialunch_49:
(Start: 21 @33287 has 61 MA's), (Start: 25 @33272 has 164 MA's), (46, 33182), (56, 33158), (72, 33071), (94, 32972), (97, 32819),

Gene: Centaur_51 Start: 34057, Stop: 33533, Start Num: 21
Candidate Starts for Centaur_51:
(Start: 21 @34057 has 61 MA's), (Start: 25 @34042 has 164 MA's), (41, 33973), (58, 33937), (66, 33910), (69, 33865), (71, 33859), (73, 33835), (76, 33823), (82, 33796), (85, 33787), (89, 33769), (97, 33646),

Gene: CentreCat_49 Start: 33391, Stop: 32852, Start Num: 28
Candidate Starts for CentreCat_49:
(Start: 13 @33448 has 1 MA's), (Start: 14 @33433 has 1 MA's), (Start: 28 @33391 has 142 MA's), (76, 33133), (83, 33100), (93, 33061), (104, 32893),

Gene: Cerulean_50 Start: 33808, Stop: 33272, Start Num: 28
Candidate Starts for Cerulean_50:
(11, 33871), (Start: 28 @33808 has 142 MA's), (76, 33550), (83, 33517), (93, 33478), (104, 33313),

Gene: Chadwick_46 Start: 32252, Stop: 31728, Start Num: 27
Candidate Starts for Chadwick_46:
(Start: 27 @32252 has 31 MA's), (58, 32120), (62, 32114), (86, 31970),

Gene: ChampagnePapi_51 Start: 33807, Stop: 33271, Start Num: 28
Candidate Starts for ChampagnePapi_51:
(11, 33870), (Start: 28 @33807 has 142 MA's), (76, 33549), (83, 33516), (93, 33477), (104, 33312),

Gene: Chaph_49 Start: 33399, Stop: 32860, Start Num: 28
Candidate Starts for Chaph_49:
(Start: 13 @33456 has 1 MA's), (Start: 14 @33441 has 1 MA's), (Start: 28 @33399 has 142 MA's), (76, 33141), (83, 33108), (93, 33069), (104, 32901),

Gene: Chargerpower_49 Start: 32641, Stop: 32096, Start Num: 21
Candidate Starts for Chargerpower_49:
(Start: 21 @32641 has 61 MA's), (Start: 25 @32626 has 164 MA's), (35, 32557), (40, 32539), (58, 32497), (66, 32470), (69, 32425), (71, 32419), (76, 32383), (82, 32356), (97, 32200), (98, 32197), (102, 32152),

Gene: Charm_49 Start: 33504, Stop: 32941, Start Num: 25
Candidate Starts for Charm_49:
(Start: 21 @33519 has 61 MA's), (Start: 25 @33504 has 164 MA's), (44, 33414), (57, 33384), (72, 33291), (94, 33192), (97, 33048),

Gene: Chartreuse_51 Start: 32189, Stop: 31602, Start Num: 21
Candidate Starts for Chartreuse_51:
(Start: 21 @32189 has 61 MA's), (Start: 25 @32174 has 164 MA's), (52, 32063), (60, 32045), (88, 31883), (94, 31856), (97, 31712), (98, 31709),

Gene: Che12_52 Start: 32805, Stop: 32197, Start Num: 21
Candidate Starts for Che12_52:
(Start: 21 @32805 has 61 MA's), (Start: 25 @32790 has 164 MA's), (60, 32649), (77, 32529), (94, 32457), (97, 32307), (98, 32304), (102, 32262),

Gene: ChipMunk_52 Start: 35413, Stop: 34883, Start Num: 25
Candidate Starts for ChipMunk_52:
(Start: 21 @35428 has 61 MA's), (Start: 25 @35413 has 164 MA's), (41, 35323), (58, 35287), (66, 35260), (69, 35215), (71, 35209), (73, 35185), (82, 35146), (97, 34993), (100, 34975), (102, 34945),

Gene: Chiqui_48 Start: 33698, Stop: 33135, Start Num: 27
Candidate Starts for Chiqui_48:
(Start: 13 @33755 has 1 MA's), (Start: 14 @33740 has 1 MA's), (Start: 15 @33728 has 18 MA's), (Start: 27 @33698 has 31 MA's), (36, 33629), (60, 33551), (67, 33515), (76, 33431), (104, 33176),

Gene: Cici_48 Start: 33379, Stop: 32840, Start Num: 28
Candidate Starts for Cici_48:
(Start: 13 @33436 has 1 MA's), (Start: 14 @33421 has 1 MA's), (Start: 28 @33379 has 142 MA's), (76, 33121), (83, 33088), (93, 33049), (104, 32881),

Gene: Cindaradix_46 Start: 33000, Stop: 32467, Start Num: 28
Candidate Starts for Cindaradix_46:
(Start: 13 @33057 has 1 MA's), (Start: 14 @33042 has 1 MA's), (Start: 28 @33000 has 142 MA's), (76, 32742), (83, 32709), (93, 32670), (104, 32508),

Gene: Cintron_48 Start: 33365, Stop: 32829, Start Num: 28
Candidate Starts for Cintron_48:
(Start: 13 @33422 has 1 MA's), (Start: 14 @33407 has 1 MA's), (Start: 28 @33365 has 142 MA's), (76, 33107), (83, 33074), (93, 33035), (104, 32870),

Gene: Citius_49 Start: 33409, Stop: 32870, Start Num: 28
Candidate Starts for Citius_49:
(Start: 13 @33466 has 1 MA's), (Start: 14 @33451 has 1 MA's), (Start: 28 @33409 has 142 MA's), (76, 33151), (83, 33118), (93, 33079), (104, 32911),

Gene: Clammy_51 Start: 33721, Stop: 33158, Start Num: 27
Candidate Starts for Clammy_51:
(Start: 13 @33778 has 1 MA's), (Start: 14 @33763 has 1 MA's), (Start: 15 @33751 has 18 MA's), (Start: 27 @33721 has 31 MA's), (36, 33652), (60, 33574), (67, 33538), (76, 33454), (104, 33199),

Gene: Clarenza_48 Start: 33385, Stop: 32846, Start Num: 28
Candidate Starts for Clarenza_48:

(Start: 13 @33442 has 1 MA's), (Start: 14 @33427 has 1 MA's), (Start: 28 @33385 has 142 MA's), (76, 33127), (83, 33094), (93, 33055), (104, 32887),

Gene: CloudWang3_52 Start: 32568, Stop: 32023, Start Num: 25
Candidate Starts for CloudWang3_52:
(Start: 1 @32766 has 5 MA's), (2, 32751), (3, 32730), (4, 32700), (6, 32694), (Start: 25 @32568 has 164 MA's), (70, 32358), (71, 32355), (82, 32292), (85, 32283), (97, 32133), (98, 32130),

Gene: ClownCar_53 Start: 33742, Stop: 33152, Start Num: 23
Candidate Starts for ClownCar_53:
(Start: 23 @33742 has 82 MA's), (Start: 28 @33736 has 142 MA's), (54, 33592), (59, 33583), (67, 33556), (76, 33472), (97, 33268), (102, 33220),

Gene: Cocoaberry_49 Start: 33392, Stop: 32853, Start Num: 28
Candidate Starts for Cocoaberry_49:
(Start: 13 @33449 has 1 MA's), (Start: 14 @33434 has 1 MA's), (Start: 28 @33392 has 142 MA's), (76, 33134), (83, 33101), (93, 33062), (104, 32894),

Gene: CogOmlette_49 Start: 33185, Stop: 32658, Start Num: 25
Candidate Starts for CogOmlette_49:
(Start: 21 @33200 has 61 MA's), (Start: 25 @33185 has 164 MA's), (48, 33086), (58, 33062), (71, 32984), (73, 32960), (82, 32921), (97, 32765),

Gene: Colbster_53 Start: 33860, Stop: 33270, Start Num: 23
Candidate Starts for Colbster_53:
(Start: 23 @33860 has 82 MA's), (Start: 28 @33854 has 142 MA's), (54, 33710), (59, 33701), (67, 33674), (76, 33590), (97, 33386), (102, 33338),

Gene: Colin_50 Start: 34033, Stop: 33509, Start Num: 25
Candidate Starts for Colin_50:
(Start: 21 @34048 has 61 MA's), (Start: 25 @34033 has 164 MA's), (66, 33886), (69, 33841), (71, 33835), (73, 33811), (82, 33772), (97, 33619), (100, 33601), (102, 33571),

Gene: Commander_49 Start: 33387, Stop: 32848, Start Num: 28
Candidate Starts for Commander_49:
(Start: 13 @33444 has 1 MA's), (Start: 14 @33429 has 1 MA's), (Start: 28 @33387 has 142 MA's), (76, 33129), (83, 33096), (93, 33057), (104, 32889),

Gene: Connomayer_49 Start: 33388, Stop: 32849, Start Num: 28
Candidate Starts for Connomayer_49:
(Start: 13 @33445 has 1 MA's), (Start: 14 @33430 has 1 MA's), (Start: 28 @33388 has 142 MA's), (76, 33130), (83, 33097), (93, 33058), (104, 32890),

Gene: Conquerage_50 Start: 33691, Stop: 33128, Start Num: 25
Candidate Starts for Conquerage_50:
(Start: 21 @33706 has 61 MA's), (Start: 25 @33691 has 164 MA's), (60, 33565), (72, 33475), (94, 33376), (97, 33235),

Gene: Cookiedough_52 Start: 32808, Stop: 32215, Start Num: 21
Candidate Starts for Cookiedough_52:
(Start: 21 @32808 has 61 MA's), (Start: 25 @32793 has 164 MA's), (52, 32682), (60, 32664), (88, 32502), (94, 32475), (97, 32325), (98, 32322),

Gene: CosmicSans_39 Start: 29798, Stop: 29274, Start Num: 32
Candidate Starts for CosmicSans_39:
(Start: 32 @29798 has 36 MA's), (54, 29693), (97, 29381), (99, 29372), (100, 29363), (102, 29333),

Gene: Croquant_54 Start: 33855, Stop: 33265, Start Num: 23
Candidate Starts for Croquant_54:
(Start: 23 @33855 has 82 MA's), (Start: 28 @33849 has 142 MA's), (54, 33705), (59, 33696), (67, 33669), (76, 33585), (97, 33381), (102, 33333),

Gene: Crucio_50 Start: 33650, Stop: 33129, Start Num: 25
Candidate Starts for Crucio_50:
(Start: 21 @33665 has 61 MA's), (Start: 25 @33650 has 164 MA's), (58, 33536), (66, 33509), (69, 33464), (71, 33458), (73, 33434), (82, 33395), (85, 33386), (97, 33239), (100, 33221), (102, 33191),

Gene: Cuco_42 Start: 32356, Stop: 31829, Start Num: 27
Candidate Starts for Cuco_42:
(Start: 27 @32356 has 31 MA's), (58, 32221), (62, 32215), (86, 32071), (106, 31852),

Gene: Cullens_53 Start: 33856, Stop: 33266, Start Num: 23
Candidate Starts for Cullens_53:
(Start: 23 @33856 has 82 MA's), (Start: 28 @33850 has 142 MA's), (54, 33706), (59, 33697), (67, 33670), (76, 33586), (97, 33382), (102, 33334),

Gene: D29_49 Start: 33484, Stop: 32891, Start Num: 21
Candidate Starts for D29_49:
(Start: 21 @33484 has 61 MA's), (Start: 25 @33469 has 164 MA's), (55, 33352), (58, 33346), (66, 33322), (70, 33274), (90, 33175), (92, 33166), (94, 33157), (97, 33004),

Gene: D32_51 Start: 33469, Stop: 32891, Start Num: 25
Candidate Starts for D32_51:
(Start: 21 @33484 has 61 MA's), (Start: 25 @33469 has 164 MA's), (55, 33352), (58, 33346), (66, 33322), (70, 33274), (90, 33175), (92, 33166), (94, 33157), (97, 33004),

Gene: DBQu4n_52 Start: 33468, Stop: 32890, Start Num: 25
Candidate Starts for DBQu4n_52:
(Start: 21 @33483 has 61 MA's), (Start: 25 @33468 has 164 MA's), (58, 33345), (66, 33321), (70, 33273), (90, 33174), (92, 33165), (94, 33156), (97, 33003),

Gene: DaHudson_53 Start: 33849, Stop: 33259, Start Num: 23
Candidate Starts for DaHudson_53:
(Start: 23 @33849 has 82 MA's), (Start: 28 @33843 has 142 MA's), (54, 33699), (59, 33690), (67, 33663), (76, 33579), (97, 33375), (102, 33327),

Gene: DaVinci_51 Start: 32228, Stop: 31656, Start Num: 25
Candidate Starts for DaVinci_51:
(Start: 21 @32243 has 61 MA's), (Start: 25 @32228 has 164 MA's), (52, 32117), (60, 32099), (88, 31937), (94, 31910), (97, 31766), (98, 31763),

Gene: Daishi_52 Start: 32725, Stop: 32138, Start Num: 23
Candidate Starts for Daishi_52:
(Start: 23 @32725 has 82 MA's), (Start: 28 @32719 has 142 MA's), (54, 32581), (59, 32572), (67, 32545), (68, 32542), (72, 32482), (76, 32461), (97, 32254), (102, 32206),

Gene: Dalmatian_51 Start: 34042, Stop: 33521, Start Num: 25
Candidate Starts for Dalmatian_51:
(Start: 21 @34057 has 61 MA's), (Start: 25 @34042 has 164 MA's), (58, 33928), (66, 33901), (71, 33850), (73, 33826), (82, 33787), (85, 33778), (97, 33631), (100, 33613), (102, 33583),

Gene: Darrell_52 Start: 34335, Stop: 33751, Start Num: 21
Candidate Starts for Darrell_52:
(Start: 21 @34335 has 61 MA's), (Start: 25 @34320 has 164 MA's), (50, 34215), (72, 34104), (94, 34005), (97, 33858),

Gene: Datway_48 Start: 33350, Stop: 32811, Start Num: 28
Candidate Starts for Datway_48:
(Start: 13 @33407 has 1 MA's), (Start: 14 @33392 has 1 MA's), (Start: 28 @33350 has 142 MA's), (83, 33059), (93, 33020), (104, 32852),

Gene: Deano_48 Start: 33396, Stop: 32857, Start Num: 28
Candidate Starts for Deano_48:
(Start: 13 @33453 has 1 MA's), (Start: 14 @33438 has 1 MA's), (Start: 28 @33396 has 142 MA's), (76, 33138), (83, 33105), (93, 33066), (104, 32898),

Gene: DeerParkTS_48 Start: 33176, Stop: 32655, Start Num: 25
Candidate Starts for DeerParkTS_48:
(Start: 21 @33191 has 61 MA's), (Start: 25 @33176 has 164 MA's), (58, 33056), (66, 33029), (69, 32984), (71, 32978), (73, 32954), (82, 32915), (97, 32765), (100, 32747), (102, 32717),

Gene: DekHockey33_54 Start: 33050, Stop: 32484, Start Num: 25
Candidate Starts for DekHockey33_54:
(Start: 25 @33050 has 164 MA's), (Start: 28 @33044 has 142 MA's), (51, 32939), (63, 32912), (64, 32909), (77, 32798), (80, 32777), (83, 32768), (85, 32759), (104, 32540),

Gene: Deloris_51 Start: 33835, Stop: 33311, Start Num: 25
Candidate Starts for Deloris_51:
(Start: 21 @33850 has 61 MA's), (Start: 25 @33835 has 164 MA's), (50, 33730), (66, 33685), (71, 33634), (76, 33598), (82, 33571), (97, 33421), (100, 33403), (102, 33373),

Gene: DelvinSonDorr_50 Start: 32639, Stop: 32091, Start Num: 25
Candidate Starts for DelvinSonDorr_50:
(Start: 1 @32837 has 5 MA's), (2, 32822), (3, 32801), (4, 32771), (6, 32765), (Start: 25 @32639 has 164 MA's), (70, 32429), (71, 32426), (82, 32363), (85, 32354), (97, 32201), (98, 32198),

Gene: Dhanush_49 Start: 33391, Stop: 32852, Start Num: 28
Candidate Starts for Dhanush_49:
(Start: 13 @33448 has 1 MA's), (Start: 14 @33433 has 1 MA's), (Start: 28 @33391 has 142 MA's), (76, 33133), (83, 33100), (93, 33061), (104, 32893),

Gene: Dieselweasel_54 Start: 33859, Stop: 33269, Start Num: 23
Candidate Starts for Dieselweasel_54:
(Start: 23 @33859 has 82 MA's), (Start: 28 @33853 has 142 MA's), (54, 33709), (59, 33700), (67, 33673), (76, 33589), (97, 33385), (102, 33337),

Gene: Dignity_52 Start: 34218, Stop: 33691, Start Num: 25
Candidate Starts for Dignity_52:

(Start: 21 @34233 has 61 MA's), (Start: 25 @34218 has 164 MA's), (41, 34131), (58, 34095), (66, 34068), (69, 34023), (71, 34017), (73, 33993), (82, 33954), (97, 33801), (100, 33783), (102, 33753),

Gene: Dinger_39 Start: 29859, Stop: 29335, Start Num: 32
Candidate Starts for Dinger_39:
(Start: 32 @29859 has 36 MA's), (54, 29754), (97, 29442), (99, 29433), (100, 29424), (102, 29394),

Gene: DirtyDunning_48 Start: 33403, Stop: 32870, Start Num: 28
Candidate Starts for DirtyDunning_48:
(Start: 13 @33460 has 1 MA's), (Start: 14 @33445 has 1 MA's), (Start: 28 @33403 has 142 MA's), (76, 33145), (83, 33112), (93, 33073), (104, 32911),

Gene: Discoknowium_41 Start: 32092, Stop: 31565, Start Num: 27
Candidate Starts for Discoknowium_41:
(Start: 27 @32092 has 31 MA's), (58, 31957), (62, 31951), (86, 31807), (106, 31588),

Gene: Dorothea_52 Start: 32797, Stop: 32225, Start Num: 25
Candidate Starts for Dorothea_52:
(Start: 21 @32812 has 61 MA's), (Start: 25 @32797 has 164 MA's), (52, 32686), (60, 32668), (88, 32506), (94, 32479), (97, 32335), (98, 32332),

Gene: Drake55_52 Start: 34136, Stop: 33609, Start Num: 21
Candidate Starts for Drake55_52:
(Start: 21 @34136 has 61 MA's), (Start: 25 @34121 has 164 MA's), (41, 34052), (58, 34016), (66, 33989), (71, 33938), (73, 33914), (76, 33902), (82, 33875), (85, 33866), (89, 33848), (97, 33722),

Gene: DreamTeam1_49 Start: 33360, Stop: 32815, Start Num: 25
Candidate Starts for DreamTeam1_49:
(Start: 21 @33375 has 61 MA's), (Start: 25 @33360 has 164 MA's), (57, 33258), (72, 33165), (94, 33066), (97, 32922),

Gene: DropBear_50 Start: 33590, Stop: 33039, Start Num: 27
Candidate Starts for DropBear_50:
(Start: 13 @33647 has 1 MA's), (Start: 14 @33632 has 1 MA's), (Start: 15 @33620 has 18 MA's), (Start: 27 @33590 has 31 MA's), (36, 33521), (60, 33443), (67, 33407), (76, 33323), (104, 33080),

Gene: Druantia_49 Start: 33391, Stop: 32852, Start Num: 28
Candidate Starts for Druantia_49:
(Start: 13 @33448 has 1 MA's), (Start: 14 @33433 has 1 MA's), (Start: 28 @33391 has 142 MA's), (76, 33133), (83, 33100), (93, 33061), (104, 32893),

Gene: DudeLittle_49 Start: 33784, Stop: 33263, Start Num: 25
Candidate Starts for DudeLittle_49:
(Start: 21 @33799 has 61 MA's), (Start: 25 @33784 has 164 MA's), (58, 33670), (66, 33643), (71, 33592), (73, 33568), (82, 33529), (97, 33373), (100, 33355), (102, 33325),

Gene: Duplo_52 Start: 33506, Stop: 32928, Start Num: 25
Candidate Starts for Duplo_52:
(Start: 21 @33521 has 61 MA's), (Start: 25 @33506 has 164 MA's), (55, 33389), (58, 33383), (66, 33359), (70, 33311), (74, 33281), (90, 33212), (92, 33203), (94, 33194), (97, 33041),

Gene: Eagle_49 Start: 33413, Stop: 32874, Start Num: 28
Candidate Starts for Eagle_49:

(Start: 13 @33470 has 1 MA's), (Start: 14 @33455 has 1 MA's), (Start: 28 @33413 has 142 MA's), (76, 33155), (83, 33122), (93, 33083), (104, 32915),

Gene: EagleEye_52 Start: 33301, Stop: 32738, Start Num: 21
Candidate Starts for EagleEye_52:
(Start: 21 @33301 has 61 MA's), (Start: 25 @33286 has 164 MA's), (46, 33169), (69, 33067), (71, 33061), (82, 32998), (85, 32989), (97, 32845),

Gene: Eapen_49 Start: 33383, Stop: 32844, Start Num: 28
Candidate Starts for Eapen_49:
(Start: 13 @33440 has 1 MA's), (Start: 14 @33425 has 1 MA's), (Start: 28 @33383 has 142 MA's), (76, 33125), (83, 33092), (93, 33053), (104, 32885),

Gene: Ebony_50 Start: 32845, Stop: 32276, Start Num: 25
Candidate Starts for Ebony_50:
(Start: 25 @32845 has 164 MA's), (54, 32710), (87, 32545), (97, 32389),

Gene: Echild_50 Start: 33130, Stop: 32600, Start Num: 21
Candidate Starts for Echild_50:
(Start: 21 @33130 has 61 MA's), (Start: 25 @33115 has 164 MA's), (58, 33001), (66, 32974), (69, 32929), (71, 32923), (73, 32899), (82, 32860), (85, 32851), (97, 32710), (100, 32692), (102, 32662),

Gene: EdogawaKiddo_48 Start: 33668, Stop: 33105, Start Num: 25
Candidate Starts for EdogawaKiddo_48:
(Start: 21 @33683 has 61 MA's), (Start: 25 @33668 has 164 MA's), (60, 33542), (72, 33452), (94, 33353), (97, 33212),

Gene: Eidsmoe_50 Start: 33683, Stop: 33168, Start Num: 25
Candidate Starts for Eidsmoe_50:
(Start: 21 @33698 has 61 MA's), (Start: 25 @33683 has 164 MA's), (44, 33590), (58, 33566), (71, 33488), (82, 33425), (97, 33275),

Gene: ElTiger69_44 Start: 32269, Stop: 31745, Start Num: 27
Candidate Starts for ElTiger69_44:
(Start: 27 @32269 has 31 MA's), (58, 32137), (62, 32131), (86, 31987),

Gene: Elephantoon_49 Start: 33065, Stop: 32502, Start Num: 25
Candidate Starts for Elephantoon_49:
(Start: 21 @33080 has 61 MA's), (Start: 25 @33065 has 164 MA's), (50, 32963), (94, 32753), (97, 32609),

Gene: Elle_48 Start: 30816, Stop: 30265, Start Num: 25
Candidate Starts for Elle_48:
(Start: 25 @30816 has 164 MA's), (83, 30537), (104, 30318), (107, 30285),

Gene: EmyBug_49 Start: 33700, Stop: 33170, Start Num: 21
Candidate Starts for EmyBug_49:
(Start: 21 @33700 has 61 MA's), (Start: 25 @33685 has 164 MA's), (44, 33592), (58, 33568), (71, 33490), (82, 33427), (97, 33277),

Gene: EpicPhail_54 Start: 33860, Stop: 33270, Start Num: 23
Candidate Starts for EpicPhail_54:

(Start: 23 @33860 has 82 MA's), (Start: 28 @33854 has 142 MA's), (54, 33710), (59, 33701), (67, 33674), (76, 33590), (97, 33386), (102, 33338),

Gene: Epsocamisio_52 Start: 32293, Stop: 31751, Start Num: 25
Candidate Starts for Epsocamisio_52:
(Start: 25 @32293 has 164 MA's), (Start: 28 @32287 has 142 MA's), (51, 32182), (63, 32155), (64, 32152), (77, 32041), (80, 32020), (83, 32011), (85, 32002), (97, 31855), (101, 31810),

Gene: Equemioh13_51 Start: 33944, Stop: 33435, Start Num: 25
Candidate Starts for Equemioh13_51:
(Start: 21 @33959 has 61 MA's), (Start: 25 @33944 has 164 MA's), (41, 33875), (58, 33839), (66, 33812), (69, 33767), (71, 33761), (73, 33737), (76, 33725), (82, 33698), (85, 33689), (89, 33671), (97, 33548),

Gene: EricB_52 Start: 32771, Stop: 32199, Start Num: 25
Candidate Starts for EricB_52:
(Start: 21 @32786 has 61 MA's), (Start: 25 @32771 has 164 MA's), (52, 32660), (60, 32642), (88, 32480), (94, 32453), (97, 32309), (98, 32306),

Gene: Erik_39 Start: 29796, Stop: 29272, Start Num: 32
Candidate Starts for Erik_39:
(Start: 32 @29796 has 36 MA's), (54, 29691), (97, 29379), (99, 29370), (100, 29361), (102, 29331),

Gene: Eris_48 Start: 33388, Stop: 32849, Start Num: 28
Candidate Starts for Eris_48:
(Start: 13 @33445 has 1 MA's), (Start: 14 @33430 has 1 MA's), (Start: 28 @33388 has 142 MA's), (76, 33130), (83, 33097), (93, 33058), (104, 32890),

Gene: Eros_49 Start: 33390, Stop: 32851, Start Num: 28
Candidate Starts for Eros_49:
(Start: 13 @33447 has 1 MA's), (Start: 14 @33432 has 1 MA's), (Start: 28 @33390 has 142 MA's), (76, 33132), (83, 33099), (93, 33060), (104, 32892),

Gene: Espica_39 Start: 29797, Stop: 29273, Start Num: 32
Candidate Starts for Espica_39:
(Start: 32 @29797 has 36 MA's), (54, 29692), (97, 29380), (99, 29371), (100, 29362), (102, 29332),

Gene: Et2Brutus_49 Start: 32805, Stop: 32236, Start Num: 25
Candidate Starts for Et2Brutus_49:
(Start: 25 @32805 has 164 MA's), (54, 32670), (87, 32505), (97, 32349),

Gene: EtoileNova_50 Start: 33669, Stop: 33100, Start Num: 27
Candidate Starts for EtoileNova_50:
(Start: 13 @33726 has 1 MA's), (Start: 14 @33711 has 1 MA's), (Start: 15 @33699 has 18 MA's), (Start: 27 @33669 has 31 MA's), (36, 33600), (60, 33522), (76, 33402), (104, 33141),

Gene: Eurydice_50 Start: 33385, Stop: 32846, Start Num: 28
Candidate Starts for Eurydice_50:
(Start: 13 @33442 has 1 MA's), (Start: 14 @33427 has 1 MA's), (Start: 28 @33385 has 142 MA's), (76, 33127), (83, 33094), (93, 33055), (104, 32887),

Gene: ExplosioNervosa_50 Start: 33751, Stop: 33188, Start Num: 25
Candidate Starts for ExplosioNervosa_50:

(Start: 21 @33766 has 61 MA's), (Start: 25 @33751 has 164 MA's), (60, 33625), (72, 33535), (94, 33436), (97, 33295),

Gene: Fameo_50 Start: 33969, Stop: 33436, Start Num: 21
Candidate Starts for Fameo_50:
(Start: 21 @33969 has 61 MA's), (Start: 25 @33954 has 164 MA's), (58, 33840), (66, 33813), (71, 33762), (73, 33738), (82, 33699), (85, 33690), (97, 33546), (100, 33528), (102, 33498),

Gene: Farber_53 Start: 33846, Stop: 33259, Start Num: 23
Candidate Starts for Farber_53:
(Start: 23 @33846 has 82 MA's), (Start: 28 @33840 has 142 MA's), (54, 33702), (59, 33693), (67, 33666), (68, 33663), (72, 33603), (76, 33582), (97, 33375), (102, 33327),

Gene: FatCactus_42 Start: 30998, Stop: 30444, Start Num: 19
Candidate Starts for FatCactus_42:
(19, 30998), (34, 30926), (58, 30848), (64, 30842), (67, 30821), (70, 30776), (76, 30737), (82, 30704), (83, 30701), (93, 30662), (97, 30551), (102, 30503),

Gene: Fayely_50 Start: 33652, Stop: 33137, Start Num: 25
Candidate Starts for Fayely_50:
(Start: 21 @33667 has 61 MA's), (Start: 25 @33652 has 164 MA's), (44, 33559), (58, 33535), (71, 33457), (82, 33394), (97, 33244),

Gene: Fernando_53 Start: 33856, Stop: 33266, Start Num: 23
Candidate Starts for Fernando_53:
(Start: 23 @33856 has 82 MA's), (Start: 28 @33850 has 142 MA's), (54, 33706), (59, 33697), (67, 33670), (76, 33586), (97, 33382), (102, 33334),

Gene: Fibonacci_50 Start: 32814, Stop: 32251, Start Num: 25
Candidate Starts for Fibonacci_50:
(Start: 25 @32814 has 164 MA's), (54, 32685), (87, 32520), (97, 32364),

Gene: FiringLine_50 Start: 33631, Stop: 33110, Start Num: 25
Candidate Starts for FiringLine_50:
(Start: 21 @33646 has 61 MA's), (Start: 25 @33631 has 164 MA's), (58, 33517), (66, 33490), (69, 33445), (71, 33439), (73, 33415), (82, 33376), (85, 33367), (97, 33220), (100, 33202), (102, 33172),

Gene: First_0052 Start: 34110, Stop: 33565, Start Num: 21
Candidate Starts for First_0052:
(Start: 21 @34110 has 61 MA's), (Start: 25 @34095 has 164 MA's), (50, 33984), (57, 33969), (66, 33939), (73, 33864), (82, 33825), (97, 33675), (100, 33657), (102, 33627),

Gene: Flare16_50 Start: 33718, Stop: 33194, Start Num: 21
Candidate Starts for Flare16_50:
(Start: 21 @33718 has 61 MA's), (Start: 25 @33703 has 164 MA's), (41, 33634), (58, 33598), (66, 33571), (69, 33526), (71, 33520), (73, 33496), (76, 33484), (82, 33457), (85, 33448), (89, 33430), (97, 33307),

Gene: Flaverint_51 Start: 33272, Stop: 32703, Start Num: 25
Candidate Starts for Flaverint_51:
(Start: 25 @33272 has 164 MA's), (54, 33137), (87, 32972), (97, 32816),

Gene: Florean_49 Start: 33387, Stop: 32848, Start Num: 28

Candidate Starts for Florean_49:
(Start: 13 @33444 has 1 MA's), (Start: 14 @33429 has 1 MA's), (Start: 28 @33387 has 142 MA's), (76, 33129), (83, 33096), (93, 33057), (104, 32889),

Gene: Florence4_42 Start: 31967, Stop: 31440, Start Num: 27
Candidate Starts for Florence4_42:
(Start: 27 @31967 has 31 MA's), (58, 31832), (62, 31826), (86, 31682), (105, 31481), (106, 31463),

Gene: Flux_49 Start: 33387, Stop: 32848, Start Num: 28
Candidate Starts for Flux_49:
(Start: 13 @33444 has 1 MA's), (Start: 14 @33429 has 1 MA's), (Start: 28 @33387 has 142 MA's), (76, 33129), (83, 33096), (93, 33057), (104, 32889),

Gene: FlyCatcher_54 Start: 35717, Stop: 35193, Start Num: 30
Candidate Starts for FlyCatcher_54:
(Start: 30 @35717 has 1 MA's), (52, 35621), (80, 35462), (83, 35453), (91, 35420), (98, 35285), (104, 35240),

Gene: ForesterFrank_48 Start: 34340, Stop: 33807, Start Num: 25
Candidate Starts for ForesterFrank_48:
(Start: 21 @34355 has 61 MA's), (Start: 25 @34340 has 164 MA's), (41, 34262), (58, 34226), (66, 34199), (70, 34151), (71, 34148), (82, 34085), (97, 33920), (100, 33902),

Gene: Fred313_50 Start: 33287, Stop: 32724, Start Num: 27
Candidate Starts for Fred313_50:
(Start: 13 @33338 has 1 MA's), (Start: 14 @33323 has 1 MA's), (Start: 15 @33311 has 18 MA's), (Start: 27 @33287 has 31 MA's), (36, 33218), (60, 33140), (66, 33107), (67, 33104), (76, 33020), (104, 32765),

Gene: Funston_48 Start: 33388, Stop: 32849, Start Num: 28
Candidate Starts for Funston_48:
(Start: 13 @33445 has 1 MA's), (Start: 14 @33430 has 1 MA's), (Start: 28 @33388 has 142 MA's), (76, 33130), (83, 33097), (93, 33058), (104, 32890),

Gene: Gadost_49 Start: 33392, Stop: 32853, Start Num: 28
Candidate Starts for Gadost_49:
(Start: 13 @33449 has 1 MA's), (Start: 14 @33434 has 1 MA's), (Start: 28 @33392 has 142 MA's), (76, 33134), (83, 33101), (93, 33062), (104, 32894),

Gene: Gail_54 Start: 34735, Stop: 34187, Start Num: 21
Candidate Starts for Gail_54:
(Start: 21 @34735 has 61 MA's), (Start: 25 @34720 has 164 MA's), (41, 34630), (58, 34594), (66, 34567), (69, 34522), (71, 34516), (73, 34492), (82, 34453), (85, 34444), (97, 34297), (102, 34252),

Gene: Garak_54 Start: 32912, Stop: 32364, Start Num: 25
Candidate Starts for Garak_54:
(7, 33026), (8, 33011), (Start: 21 @32927 has 61 MA's), (Start: 25 @32912 has 164 MA's), (70, 32702), (71, 32699), (82, 32636), (85, 32627), (97, 32474), (98, 32471),

Gene: GaugeLDP_48 Start: 33987, Stop: 33457, Start Num: 21
Candidate Starts for GaugeLDP_48:
(Start: 21 @33987 has 61 MA's), (Start: 25 @33972 has 164 MA's), (47, 33888), (58, 33867), (72, 33780), (76, 33759), (82, 33729), (83, 33726), (97, 33567), (100, 33549), (102, 33522),

Gene: Gemma_52 Start: 33745, Stop: 33155, Start Num: 23
Candidate Starts for Gemma_52:
(Start: 23 @33745 has 82 MA's), (Start: 28 @33739 has 142 MA's), (54, 33595), (59, 33586), (67, 33559), (76, 33475), (97, 33271), (102, 33223),

Gene: George_42 Start: 32544, Stop: 32017, Start Num: 27
Candidate Starts for George_42:
(Start: 27 @32544 has 31 MA's), (58, 32409), (62, 32403), (86, 32259), (106, 32040),

Gene: Georgie2_51 Start: 33676, Stop: 33155, Start Num: 25
Candidate Starts for Georgie2_51:
(Start: 21 @33691 has 61 MA's), (Start: 25 @33676 has 164 MA's), (58, 33562), (66, 33535), (69, 33490), (71, 33484), (73, 33460), (82, 33421), (85, 33412), (97, 33265), (100, 33247), (102, 33217),

Gene: Gilberta_51 Start: 33262, Stop: 32693, Start Num: 25
Candidate Starts for Gilberta_51:
(Start: 25 @33262 has 164 MA's), (54, 33127), (87, 32962), (97, 32806),

Gene: GingkoMaracino_53 Start: 33742, Stop: 33152, Start Num: 23
Candidate Starts for GingkoMaracino_53:
(Start: 23 @33742 has 82 MA's), (Start: 28 @33736 has 142 MA's), (54, 33592), (59, 33583), (67, 33556), (76, 33472), (97, 33268), (102, 33220),

Gene: Giroux_52 Start: 33750, Stop: 33157, Start Num: 15
Candidate Starts for Giroux_52:
(Start: 13 @33777 has 1 MA's), (Start: 14 @33762 has 1 MA's), (Start: 15 @33750 has 18 MA's), (Start: 27 @33720 has 31 MA's), (36, 33651), (60, 33573), (67, 33537), (76, 33453), (104, 33198),

Gene: Gladiator_50 Start: 32270, Stop: 31527, Start Num: 1
Candidate Starts for Gladiator_50:
(Start: 1 @32270 has 5 MA's), (2, 32255), (3, 32234), (4, 32204), (6, 32198), (Start: 25 @32072 has 164 MA's), (70, 31862), (71, 31859), (82, 31796), (85, 31787), (97, 31637), (98, 31634),

Gene: Gollum_39 Start: 29796, Stop: 29272, Start Num: 32
Candidate Starts for Gollum_39:
(Start: 32 @29796 has 36 MA's), (54, 29691), (97, 29379), (99, 29370), (100, 29361), (102, 29331),

Gene: Gratitude_50 Start: 33944, Stop: 33435, Start Num: 25
Candidate Starts for Gratitude_50:
(Start: 21 @33959 has 61 MA's), (Start: 25 @33944 has 164 MA's), (41, 33875), (58, 33839), (66, 33812), (69, 33767), (71, 33761), (73, 33737), (76, 33725), (82, 33698), (85, 33689), (89, 33671), (97, 33548),

Gene: GreedyLawyer_52 Start: 32793, Stop: 32206, Start Num: 21
Candidate Starts for GreedyLawyer_52:
(Start: 21 @32793 has 61 MA's), (Start: 25 @32778 has 164 MA's), (52, 32667), (60, 32649), (88, 32487), (94, 32460), (97, 32316), (98, 32313),

Gene: Grif_53 Start: 33931, Stop: 33341, Start Num: 23
Candidate Starts for Grif_53:
(Start: 23 @33931 has 82 MA's), (Start: 28 @33925 has 142 MA's), (54, 33781), (59, 33772), (67, 33745), (76, 33661), (97, 33457), (102, 33409),

Gene: Groupthink_54 Start: 33749, Stop: 33159, Start Num: 23
Candidate Starts for Groupthink_54:
(Start: 23 @33749 has 82 MA's), (Start: 28 @33743 has 142 MA's), (54, 33599), (59, 33590), (67, 33563), (76, 33479), (97, 33275), (102, 33227),

Gene: Grub_53 Start: 33848, Stop: 33258, Start Num: 23
Candidate Starts for Grub_53:
(Start: 23 @33848 has 82 MA's), (Start: 28 @33842 has 142 MA's), (54, 33698), (59, 33689), (67, 33662), (76, 33578), (97, 33374), (102, 33326),

Gene: Grum1_53 Start: 33856, Stop: 33266, Start Num: 23
Candidate Starts for Grum1_53:
(Start: 23 @33856 has 82 MA's), (Start: 28 @33850 has 142 MA's), (54, 33706), (59, 33697), (67, 33670), (76, 33586), (97, 33382), (102, 33334),

Gene: Gruunaga_52 Start: 32771, Stop: 32226, Start Num: 25
Candidate Starts for Gruunaga_52:
(Start: 1 @32969 has 5 MA's), (2, 32954), (3, 32933), (4, 32903), (6, 32897), (Start: 25 @32771 has 164 MA's), (70, 32561), (71, 32558), (82, 32495), (85, 32486), (97, 32336), (98, 32333),

Gene: GtownJaz_53 Start: 33858, Stop: 33268, Start Num: 23
Candidate Starts for GtownJaz_53:
(Start: 23 @33858 has 82 MA's), (Start: 28 @33852 has 142 MA's), (54, 33708), (59, 33699), (67, 33672), (76, 33588), (97, 33384), (102, 33336),

Gene: Gwennie_52 Start: 33860, Stop: 33270, Start Num: 23
Candidate Starts for Gwennie_52:
(Start: 23 @33860 has 82 MA's), (Start: 28 @33854 has 142 MA's), (54, 33710), (59, 33701), (67, 33674), (76, 33590), (97, 33386), (102, 33338),

Gene: HamSlice_48 Start: 33386, Stop: 32847, Start Num: 28
Candidate Starts for HamSlice_48:
(Start: 13 @33443 has 1 MA's), (Start: 14 @33428 has 1 MA's), (Start: 28 @33386 has 142 MA's), (76, 33128), (83, 33095), (93, 33056), (104, 32888),

Gene: Hammer_53 Start: 32552, Stop: 31803, Start Num: 1
Candidate Starts for Hammer_53:
(Start: 1 @32552 has 5 MA's), (2, 32537), (3, 32516), (4, 32486), (6, 32480), (Start: 25 @32354 has 164 MA's), (70, 32144), (71, 32141), (82, 32078), (85, 32069), (97, 31913), (98, 31910),

Gene: Hanray_48 Start: 33672, Stop: 33109, Start Num: 25
Candidate Starts for Hanray_48:
(Start: 21 @33687 has 61 MA's), (Start: 25 @33672 has 164 MA's), (60, 33546), (72, 33456), (94, 33357), (97, 33216),

Gene: Happiness_48 Start: 33390, Stop: 32854, Start Num: 28
Candidate Starts for Happiness_48:
(11, 33453), (Start: 28 @33390 has 142 MA's), (76, 33132), (83, 33099), (93, 33060), (104, 32895),

Gene: Harlequin_39 Start: 29803, Stop: 29279, Start Num: 32
Candidate Starts for Harlequin_39:
(Start: 32 @29803 has 36 MA's), (54, 29698), (97, 29386), (99, 29377), (100, 29368), (102, 29338),

Gene: HarryHoudini_51 Start: 34130, Stop: 33618, Start Num: 25
Candidate Starts for HarryHoudini_51:
(Start: 21 @34145 has 61 MA's), (Start: 25 @34130 has 164 MA's), (41, 34061), (58, 34025), (66, 33998), (69, 33953), (71, 33947), (73, 33923), (76, 33911), (82, 33884), (85, 33875), (89, 33857), (97, 33731),

Gene: HashRod_54 Start: 33884, Stop: 33297, Start Num: 23
Candidate Starts for HashRod_54:
(Start: 23 @33884 has 82 MA's), (Start: 28 @33878 has 142 MA's), (54, 33740), (59, 33731), (67, 33704), (68, 33701), (72, 33641), (76, 33620), (97, 33413), (102, 33365),

Gene: HaveUMetTed_54 Start: 33734, Stop: 33141, Start Num: 23
Candidate Starts for HaveUMetTed_54:
(Start: 23 @33734 has 82 MA's), (Start: 28 @33728 has 142 MA's), (54, 33581), (59, 33572), (67, 33545), (76, 33461), (97, 33257), (102, 33209),

Gene: Heathen_50 Start: 33373, Stop: 32780, Start Num: 15
Candidate Starts for Heathen_50:
(Start: 13 @33400 has 1 MA's), (Start: 14 @33385 has 1 MA's), (Start: 15 @33373 has 18 MA's), (Start: 27 @33343 has 31 MA's), (36, 33274), (60, 33196), (66, 33163), (67, 33160), (76, 33076), (104, 32821),

Gene: Heffalump_49 Start: 34422, Stop: 33904, Start Num: 25
Candidate Starts for Heffalump_49:
(Start: 21 @34437 has 61 MA's), (Start: 25 @34422 has 164 MA's), (58, 34308), (66, 34281), (71, 34230), (73, 34206), (82, 34167), (85, 34158), (97, 34014), (100, 33996), (102, 33966),

Gene: HelDan_50 Start: 33595, Stop: 33032, Start Num: 27
Candidate Starts for HelDan_50:
(Start: 13 @33652 has 1 MA's), (Start: 14 @33637 has 1 MA's), (Start: 15 @33625 has 18 MA's), (Start: 27 @33595 has 31 MA's), (36, 33526), (60, 33448), (66, 33415), (67, 33412), (76, 33328), (104, 33073),

Gene: Heliosoles_52 Start: 33752, Stop: 33162, Start Num: 23
Candidate Starts for Heliosoles_52:
(Start: 23 @33752 has 82 MA's), (Start: 28 @33746 has 142 MA's), (54, 33602), (59, 33593), (67, 33566), (76, 33482), (97, 33278), (102, 33230),

Gene: Helmet_54 Start: 32927, Stop: 32364, Start Num: 21
Candidate Starts for Helmet_54:
(7, 33026), (8, 33011), (Start: 21 @32927 has 61 MA's), (Start: 25 @32912 has 164 MA's), (70, 32702), (71, 32699), (82, 32636), (85, 32627), (97, 32474), (98, 32471),

Gene: Herbertwm_50 Start: 33563, Stop: 32988, Start Num: 25
Candidate Starts for Herbertwm_50:
(Start: 21 @33578 has 61 MA's), (Start: 25 @33563 has 164 MA's), (50, 33458), (58, 33437), (68, 33407), (70, 33365), (83, 33296), (94, 33248), (97, 33095),

Gene: Hercules11_53 Start: 33865, Stop: 33275, Start Num: 23
Candidate Starts for Hercules11_53:
(Start: 23 @33865 has 82 MA's), (Start: 28 @33859 has 142 MA's), (54, 33715), (59, 33706), (67, 33679), (76, 33595), (97, 33391), (102, 33343),

Gene: Hexamo_52 Start: 32557, Stop: 31985, Start Num: 21
Candidate Starts for Hexamo_52:
(7, 32656), (8, 32641), (Start: 21 @32557 has 61 MA's), (Start: 25 @32542 has 164 MA's), (70, 32332), (71, 32329), (82, 32266), (85, 32257), (97, 32095), (98, 32092),

Gene: HippoHollow_50 Start: 35182, Stop: 34655, Start Num: 25
Candidate Starts for HippoHollow_50:
(Start: 21 @35197 has 61 MA's), (Start: 25 @35182 has 164 MA's), (58, 35068), (66, 35041), (71, 34990), (73, 34966), (82, 34927), (97, 34768),

Gene: Hiro_39 Start: 30058, Stop: 29534, Start Num: 32
Candidate Starts for Hiro_39:
(Start: 32 @30058 has 36 MA's), (54, 29953), (97, 29641), (99, 29632), (100, 29623), (102, 29593),

Gene: Holex_49 Start: 33688, Stop: 33128, Start Num: 25
Candidate Starts for Holex_49:
(Start: 21 @33703 has 61 MA's), (Start: 25 @33688 has 164 MA's), (60, 33562), (72, 33472), (94, 33373), (97, 33235),

Gene: Holli_48 Start: 33235, Stop: 32639, Start Num: 13
Candidate Starts for Holli_48:
(Start: 13 @33235 has 1 MA's), (Start: 14 @33220 has 1 MA's), (Start: 28 @33178 has 142 MA's), (76, 32920), (83, 32887), (93, 32848), (104, 32680),

Gene: Hookmount_49 Start: 33696, Stop: 33097, Start Num: 15
Candidate Starts for Hookmount_49:
(Start: 13 @33723 has 1 MA's), (Start: 14 @33708 has 1 MA's), (Start: 15 @33696 has 18 MA's), (Start: 27 @33666 has 31 MA's), (36, 33597), (60, 33519), (76, 33399), (104, 33138),

Gene: Hoot_47 Start: 30644, Stop: 30057, Start Num: 21
Candidate Starts for Hoot_47:
(Start: 21 @30644 has 61 MA's), (Start: 25 @30629 has 164 MA's), (52, 30518), (60, 30500), (88, 30338), (94, 30311), (97, 30167), (98, 30164),

Gene: HortumSL17_50 Start: 33634, Stop: 33104, Start Num: 21
Candidate Starts for HortumSL17_50:
(Start: 21 @33634 has 61 MA's), (Start: 25 @33619 has 164 MA's), (44, 33526), (58, 33502), (71, 33424), (82, 33361), (97, 33211),

Gene: Houdini22_49 Start: 33392, Stop: 32853, Start Num: 28
Candidate Starts for Houdini22_49:
(Start: 13 @33449 has 1 MA's), (Start: 14 @33434 has 1 MA's), (Start: 28 @33392 has 142 MA's), (76, 33134), (83, 33101), (93, 33062), (104, 32894),

Gene: HuhtaEnerson15_43 Start: 32535, Stop: 32008, Start Num: 27
Candidate Starts for HuhtaEnerson15_43:
(Start: 27 @32535 has 31 MA's), (58, 32400), (62, 32394), (86, 32250), (105, 32049), (106, 32031),

Gene: Hutc2_50 Start: 32814, Stop: 32251, Start Num: 25
Candidate Starts for Hutc2_50:
(Start: 25 @32814 has 164 MA's), (54, 32685), (87, 32520), (97, 32364),

Gene: Huxley_48 Start: 33449, Stop: 32910, Start Num: 28
Candidate Starts for Huxley_48:
(Start: 13 @33506 has 1 MA's), (Start: 14 @33491 has 1 MA's), (Start: 28 @33449 has 142 MA's), (76, 33191), (83, 33158), (93, 33119), (104, 32951),

Gene: ICleared_49 Start: 33417, Stop: 32878, Start Num: 28
Candidate Starts for ICleared_49:
(Start: 13 @33474 has 1 MA's), (Start: 14 @33459 has 1 MA's), (Start: 28 @33417 has 142 MA's), (76, 33159), (83, 33126), (93, 33087), (104, 32919),

Gene: Iceman_49 Start: 33674, Stop: 33135, Start Num: 28
Candidate Starts for Iceman_49:
(Start: 13 @33731 has 1 MA's), (Start: 14 @33716 has 1 MA's), (Start: 28 @33674 has 142 MA's), (76, 33416), (83, 33383), (93, 33344), (104, 33176),

Gene: Idleandcovert_51 Start: 33751, Stop: 33158, Start Num: 15
Candidate Starts for Idleandcovert_51:
(Start: 13 @33778 has 1 MA's), (Start: 14 @33763 has 1 MA's), (Start: 15 @33751 has 18 MA's), (Start: 27 @33721 has 31 MA's), (36, 33652), (60, 33574), (67, 33538), (76, 33454), (104, 33199),

Gene: Indra_55 Start: 32928, Stop: 32365, Start Num: 21
Candidate Starts for Indra_55:
(7, 33027), (8, 33012), (Start: 21 @32928 has 61 MA's), (Start: 25 @32913 has 164 MA's), (70, 32703), (71, 32700), (82, 32637), (85, 32628), (97, 32475), (98, 32472),

Gene: Insomnia_51 Start: 33325, Stop: 32756, Start Num: 25
Candidate Starts for Insomnia_51:
(Start: 25 @33325 has 164 MA's), (54, 33190), (87, 33025), (97, 32869),

Gene: Iracema64_50 Start: 33652, Stop: 33113, Start Num: 28
Candidate Starts for Iracema64_50:
(Start: 13 @33709 has 1 MA's), (Start: 14 @33694 has 1 MA's), (Start: 28 @33652 has 142 MA's), (76, 33394), (83, 33361), (93, 33322), (104, 33154),

Gene: IronMan_50 Start: 34814, Stop: 34269, Start Num: 25
Candidate Starts for IronMan_50:
(Start: 21 @34829 has 61 MA's), (Start: 25 @34814 has 164 MA's), (68, 34685), (70, 34643), (83, 34574), (88, 34553), (94, 34526), (97, 34376), (100, 34358),

Gene: Isiphiwo_50 Start: 32318, Stop: 31740, Start Num: 25
Candidate Starts for Isiphiwo_50:
(Start: 21 @32333 has 61 MA's), (Start: 25 @32318 has 164 MA's), (52, 32207), (60, 32189), (88, 32027), (94, 32000), (97, 31850), (98, 31847),

Gene: Iwokeuplikedis_53 Start: 33759, Stop: 33244, Start Num: 25
Candidate Starts for Iwokeuplikedis_53:
(Start: 21 @33774 has 61 MA's), (Start: 25 @33759 has 164 MA's), (58, 33648), (66, 33621), (69, 33576), (71, 33570), (73, 33546), (82, 33507), (97, 33351), (100, 33333),

Gene: JHC117_53 Start: 33855, Stop: 33265, Start Num: 23
Candidate Starts for JHC117_53:
(Start: 23 @33855 has 82 MA's), (Start: 28 @33849 has 142 MA's), (54, 33705), (59, 33696), (67, 33669), (76, 33585), (97, 33381), (102, 33333),

Gene: JSwag_53 Start: 32482, Stop: 31940, Start Num: 25
Candidate Starts for JSwag_53:
(Start: 25 @32482 has 164 MA's), (Start: 28 @32476 has 142 MA's), (51, 32371), (63, 32344), (64, 32341), (77, 32230), (80, 32209), (83, 32200), (85, 32191), (97, 32044), (101, 31999),

Gene: Jaan_50 Start: 34986, Stop: 34435, Start Num: 25
Candidate Starts for Jaan_50:
(Start: 21 @35001 has 61 MA's), (Start: 25 @34986 has 164 MA's), (68, 34854), (70, 34812), (78, 34755), (83, 34743), (88, 34722), (94, 34695), (97, 34542),

Gene: Jabiru_43 Start: 32142, Stop: 31618, Start Num: 27
Candidate Starts for Jabiru_43:
(Start: 27 @32142 has 31 MA's), (58, 32010), (62, 32004), (86, 31860), (106, 31641),

Gene: Jabith_51 Start: 33326, Stop: 32757, Start Num: 25
Candidate Starts for Jabith_51:
(Start: 25 @33326 has 164 MA's), (54, 33191), (87, 33026), (97, 32870),

Gene: Jaykayelowell_47 Start: 33381, Stop: 32842, Start Num: 28
Candidate Starts for Jaykayelowell_47:
(Start: 13 @33438 has 1 MA's), (Start: 14 @33423 has 1 MA's), (Start: 28 @33381 has 142 MA's), (76, 33123), (83, 33090), (93, 33051), (104, 32883),

Gene: Jeeves_54 Start: 33492, Stop: 32962, Start Num: 25
Candidate Starts for Jeeves_54:
(Start: 21 @33507 has 61 MA's), (Start: 25 @33492 has 164 MA's), (41, 33405), (58, 33372), (66, 33345), (69, 33300), (71, 33294), (73, 33270), (82, 33231), (85, 33222), (97, 33072), (102, 33027),

Gene: Jeffabunny_52 Start: 32584, Stop: 32021, Start Num: 21
Candidate Starts for Jeffabunny_52:
(7, 32683), (8, 32668), (Start: 21 @32584 has 61 MA's), (Start: 25 @32569 has 164 MA's), (70, 32359), (71, 32356), (82, 32293), (85, 32284), (97, 32131), (98, 32128),

Gene: JenCasNa_54 Start: 33856, Stop: 33266, Start Num: 23
Candidate Starts for JenCasNa_54:
(Start: 23 @33856 has 82 MA's), (Start: 28 @33850 has 142 MA's), (54, 33706), (59, 33697), (67, 33670), (76, 33586), (97, 33382), (102, 33334),

Gene: JeppNRM_54 Start: 33750, Stop: 33160, Start Num: 23
Candidate Starts for JeppNRM_54:
(Start: 23 @33750 has 82 MA's), (Start: 28 @33744 has 142 MA's), (54, 33600), (59, 33591), (67, 33564), (76, 33480), (97, 33276), (102, 33228),

Gene: Jerm_52 Start: 34210, Stop: 33683, Start Num: 25
Candidate Starts for Jerm_52:
(Start: 21 @34225 has 61 MA's), (Start: 25 @34210 has 164 MA's), (41, 34123), (58, 34087), (66, 34060), (69, 34015), (71, 34009), (73, 33985), (82, 33946), (97, 33793), (100, 33775), (102, 33745),

Gene: Jester_39 Start: 29734, Stop: 29210, Start Num: 32
Candidate Starts for Jester_39:
(Start: 32 @29734 has 36 MA's), (54, 29629), (97, 29317), (99, 29308), (100, 29299), (102, 29269),

Gene: JetBlade_49 Start: 33382, Stop: 32843, Start Num: 28
Candidate Starts for JetBlade_49:
(Start: 13 @33439 has 1 MA's), (Start: 14 @33424 has 1 MA's), (Start: 28 @33382 has 142 MA's), (76, 33124), (83, 33091), (93, 33052), (104, 32884),

Gene: JewelBug_53 Start: 32963, Stop: 32376, Start Num: 21
Candidate Starts for JewelBug_53:
(Start: 21 @32963 has 61 MA's), (Start: 25 @32948 has 164 MA's), (52, 32837), (60, 32819), (88, 32657), (94, 32630), (97, 32486), (98, 32483),

Gene: Jiawan_48 Start: 33704, Stop: 33141, Start Num: 25
Candidate Starts for Jiawan_48:
(Start: 21 @33719 has 61 MA's), (Start: 25 @33704 has 164 MA's), (60, 33578), (72, 33488), (94, 33389), (97, 33248),

Gene: Jobu08_52 Start: 33688, Stop: 33098, Start Num: 23
Candidate Starts for Jobu08_52:
(Start: 23 @33688 has 82 MA's), (Start: 28 @33682 has 142 MA's), (54, 33538), (59, 33529), (67, 33502), (76, 33418), (97, 33214), (102, 33166),

Gene: JoongJeon_48 Start: 33385, Stop: 32846, Start Num: 28
Candidate Starts for JoongJeon_48:
(Start: 13 @33442 has 1 MA's), (Start: 14 @33427 has 1 MA's), (Start: 28 @33385 has 142 MA's), (76, 33127), (83, 33094), (93, 33055), (104, 32887),

Gene: Jordennis_52 Start: 32489, Stop: 31890, Start Num: 21
Candidate Starts for Jordennis_52:
(Start: 21 @32489 has 61 MA's), (Start: 25 @32474 has 164 MA's), (52, 32351), (60, 32333), (88, 32171), (94, 32144), (97, 32000), (98, 31997),

Gene: Joselito_51 Start: 33271, Stop: 32702, Start Num: 25
Candidate Starts for Joselito_51:
(Start: 25 @33271 has 164 MA's), (54, 33136), (87, 32971), (97, 32815),

Gene: JoshKayV_52 Start: 34313, Stop: 33765, Start Num: 21
Candidate Starts for JoshKayV_52:
(Start: 21 @34313 has 61 MA's), (Start: 25 @34298 has 164 MA's), (58, 34169), (66, 34142), (73, 34067), (82, 34028), (85, 34019), (97, 33875), (100, 33857), (102, 33827),

Gene: Journey13_44 Start: 32029, Stop: 31511, Start Num: 21
Candidate Starts for Journey13_44:
(Start: 21 @32029 has 61 MA's), (Start: 25 @32014 has 164 MA's), (26, 32011), (58, 31906), (66, 31879), (69, 31834), (71, 31828), (73, 31804), (82, 31765), (97, 31615), (100, 31597),

Gene: Jsquared_48 Start: 32621, Stop: 32070, Start Num: 25
Candidate Starts for Jsquared_48:
(Start: 25 @32621 has 164 MA's), (43, 32543), (68, 32477), (80, 32372), (83, 32366), (88, 32345), (90, 32336), (94, 32318), (97, 32180),

Gene: KADY_53 Start: 33884, Stop: 33297, Start Num: 23
Candidate Starts for KADY_53:
(Start: 23 @33884 has 82 MA's), (Start: 28 @33878 has 142 MA's), (54, 33740), (59, 33731), (67, 33704), (68, 33701), (72, 33641), (76, 33620), (97, 33413), (102, 33365),

Gene: KFPoly_48 Start: 33382, Stop: 32843, Start Num: 28
Candidate Starts for KFPoly_48:
(Start: 13 @33439 has 1 MA's), (Start: 14 @33424 has 1 MA's), (Start: 28 @33382 has 142 MA's), (76, 33124), (83, 33091), (93, 33052), (104, 32884),

Gene: Kachowdy_50 Start: 33595, Stop: 33032, Start Num: 27
Candidate Starts for Kachowdy_50:
(Start: 13 @33652 has 1 MA's), (Start: 14 @33637 has 1 MA's), (Start: 15 @33625 has 18 MA's), (Start: 27 @33595 has 31 MA's), (36, 33526), (60, 33448), (66, 33415), (67, 33412), (76, 33328), (104, 33073),

Gene: Kalb97_54 Start: 33748, Stop: 33158, Start Num: 23
Candidate Starts for Kalb97_54:
(Start: 23 @33748 has 82 MA's), (Start: 28 @33742 has 142 MA's), (54, 33598), (59, 33589), (67, 33562), (76, 33478), (97, 33274), (102, 33226),

Gene: Kalnoky_54 Start: 33746, Stop: 33156, Start Num: 23
Candidate Starts for Kalnoky_54:
(Start: 23 @33746 has 82 MA's), (Start: 28 @33740 has 142 MA's), (54, 33596), (59, 33587), (67, 33560), (76, 33476), (97, 33272), (102, 33224),

Gene: Kalpine_48 Start: 33928, Stop: 33407, Start Num: 25
Candidate Starts for Kalpine_48:
(Start: 21 @33943 has 61 MA's), (Start: 25 @33928 has 164 MA's), (66, 33781), (69, 33736), (71, 33730), (73, 33706), (82, 33667), (97, 33517), (100, 33499), (102, 33469),

Gene: Kampy_49 Start: 33390, Stop: 32851, Start Num: 28
Candidate Starts for Kampy_49:
(Start: 13 @33447 has 1 MA's), (Start: 14 @33432 has 1 MA's), (Start: 28 @33390 has 142 MA's), (76, 33132), (83, 33099), (93, 33060), (104, 32892),

Gene: Katalie136_48 Start: 33364, Stop: 32825, Start Num: 28
Candidate Starts for Katalie136_48:
(Start: 13 @33421 has 1 MA's), (Start: 14 @33406 has 1 MA's), (Start: 28 @33364 has 142 MA's), (76, 33106), (83, 33073), (93, 33034), (104, 32866),

Gene: KatherineG_55 Start: 33020, Stop: 32460, Start Num: 25
Candidate Starts for KatherineG_55:
(Start: 25 @33020 has 164 MA's), (Start: 28 @33014 has 142 MA's), (51, 32915), (63, 32888), (64, 32885), (77, 32774), (80, 32753), (83, 32744), (85, 32735), (104, 32516),

Gene: Kazan_53 Start: 32784, Stop: 32212, Start Num: 25
Candidate Starts for Kazan_53:
(Start: 21 @32799 has 61 MA's), (Start: 25 @32784 has 164 MA's), (52, 32673), (60, 32655), (88, 32493), (94, 32466), (97, 32322), (98, 32319),

Gene: KekoraPapaka_49 Start: 33388, Stop: 32849, Start Num: 28
Candidate Starts for KekoraPapaka_49:
(Start: 13 @33445 has 1 MA's), (Start: 14 @33430 has 1 MA's), (Start: 28 @33388 has 142 MA's), (76, 33130), (83, 33097), (93, 33058), (104, 32890),

Gene: Kerberos_52 Start: 33468, Stop: 32890, Start Num: 25

Candidate Starts for Kerberos_52:
(Start: 21 @33483 has 61 MA's), (Start: 25 @33468 has 164 MA's), (55, 33351), (58, 33345), (66, 33321), (70, 33273), (74, 33243), (90, 33174), (92, 33165), (94, 33156), (97, 33003),

Gene: Keziacharles14_50 Start: 34743, Stop: 34183, Start Num: 25
Candidate Starts for Keziacharles14_50:
(Start: 21 @34758 has 61 MA's), (Start: 25 @34743 has 164 MA's), (49, 34641), (50, 34638), (58, 34620), (94, 34431), (97, 34290),

Gene: Kimba_50 Start: 32846, Stop: 32277, Start Num: 25
Candidate Starts for Kimba_50:
(Start: 25 @32846 has 164 MA's), (54, 32711), (87, 32546), (97, 32390),

Gene: KingCyrus_52 Start: 35409, Stop: 34882, Start Num: 25
Candidate Starts for KingCyrus_52:
(Start: 21 @35424 has 61 MA's), (Start: 25 @35409 has 164 MA's), (41, 35322), (58, 35286), (66, 35259), (69, 35214), (71, 35208), (73, 35184), (82, 35145), (97, 34992), (100, 34974), (102, 34944),

Gene: Kingmustik0402_49 Start: 33377, Stop: 32838, Start Num: 28
Candidate Starts for Kingmustik0402_49:
(Start: 13 @33434 has 1 MA's), (Start: 14 @33419 has 1 MA's), (Start: 28 @33377 has 142 MA's), (76, 33119), (83, 33086), (93, 33047), (104, 32879),

Gene: Kinmap_47 Start: 32221, Stop: 31706, Start Num: 25
Candidate Starts for Kinmap_47:
(16, 32248), (Start: 21 @32236 has 61 MA's), (Start: 25 @32221 has 164 MA's), (58, 32110), (66, 32089), (67, 32086), (76, 32002), (82, 31972), (83, 31969), (97, 31816), (98, 31813),

Gene: Kipper29_52 Start: 32812, Stop: 32225, Start Num: 21
Candidate Starts for Kipper29_52:
(Start: 21 @32812 has 61 MA's), (Start: 25 @32797 has 164 MA's), (52, 32686), (60, 32668), (88, 32506), (94, 32479), (97, 32335), (98, 32332),

Gene: Klodlith_50 Start: 33398, Stop: 32835, Start Num: 25
Candidate Starts for Klodlith_50:
(Start: 21 @33413 has 61 MA's), (Start: 25 @33398 has 164 MA's), (44, 33308), (57, 33278), (72, 33185), (94, 33086), (97, 32942),

Gene: Koan_47 Start: 33388, Stop: 32849, Start Num: 28
Candidate Starts for Koan_47:
(Start: 13 @33445 has 1 MA's), (Start: 14 @33430 has 1 MA's), (Start: 28 @33388 has 142 MA's), (76, 33130), (83, 33097), (93, 33058), (104, 32890),

Gene: Koduck_51 Start: 32906, Stop: 32382, Start Num: 25
Candidate Starts for Koduck_51:
(Start: 21 @32921 has 61 MA's), (Start: 25 @32906 has 164 MA's), (41, 32819), (54, 32798), (58, 32786), (66, 32759), (69, 32714), (71, 32708), (73, 32684), (82, 32645), (97, 32492),

Gene: Koko_53 Start: 32908, Stop: 32351, Start Num: 25
Candidate Starts for Koko_53:
(Start: 1 @33106 has 5 MA's), (2, 33091), (3, 33070), (4, 33040), (6, 33034), (Start: 25 @32908 has 164 MA's), (70, 32698), (71, 32695), (82, 32632), (85, 32623), (97, 32461), (98, 32458),

Gene: Koreni_48 Start: 33069, Stop: 32530, Start Num: 28
Candidate Starts for Koreni_48:
(Start: 13 @33126 has 1 MA's), (Start: 14 @33111 has 1 MA's), (Start: 28 @33069 has 142 MA's), (76, 32811), (83, 32778), (93, 32739), (104, 32571),

Gene: Kratark_49 Start: 33545, Stop: 33012, Start Num: 28
Candidate Starts for Kratark_49:
(Start: 28 @33545 has 142 MA's), (76, 33287), (83, 33254), (93, 33215), (104, 33053),

Gene: Kremtemulon_49 Start: 33336, Stop: 32800, Start Num: 28
Candidate Starts for Kremtemulon_49:
(Start: 13 @33393 has 1 MA's), (Start: 14 @33378 has 1 MA's), (Start: 28 @33336 has 142 MA's), (76, 33078), (83, 33045), (93, 33006), (104, 32841),

Gene: Krishelle_39 Start: 30158, Stop: 29634, Start Num: 32
Candidate Starts for Krishelle_39:
(Start: 32 @30158 has 36 MA's), (54, 30053), (97, 29741), (99, 29732), (100, 29723), (102, 29693),

Gene: Kyee_49 Start: 33386, Stop: 32847, Start Num: 28
Candidate Starts for Kyee_49:
(Start: 13 @33443 has 1 MA's), (Start: 14 @33428 has 1 MA's), (Start: 28 @33386 has 142 MA's), (76, 33128), (83, 33095), (93, 33056), (104, 32888),

Gene: L5_49 Start: 32996, Stop: 32457, Start Num: 21
Candidate Starts for L5_49:
(Start: 21 @32996 has 61 MA's), (Start: 25 @32981 has 164 MA's), (41, 32894), (54, 32873), (58, 32861), (66, 32834), (69, 32789), (71, 32783), (73, 32759), (82, 32720), (97, 32567),

Gene: LBerry_54 Start: 33860, Stop: 33270, Start Num: 23
Candidate Starts for LBerry_54:
(Start: 23 @33860 has 82 MA's), (Start: 28 @33854 has 142 MA's), (54, 33710), (59, 33701), (67, 33674), (76, 33590), (97, 33386), (102, 33338),

Gene: LHTSCC_51 Start: 33807, Stop: 33271, Start Num: 28
Candidate Starts for LHTSCC_51:
(11, 33870), (Start: 28 @33807 has 142 MA's), (76, 33549), (83, 33516), (93, 33477), (104, 33312),

Gene: LadyBird_55 Start: 34524, Stop: 34000, Start Num: 25
Candidate Starts for LadyBird_55:
(Start: 21 @34539 has 61 MA's), (Start: 25 @34524 has 164 MA's), (50, 34419), (66, 34374), (73, 34299), (82, 34260), (97, 34110), (100, 34092), (102, 34062),

Gene: Lambert1_49 Start: 33695, Stop: 33096, Start Num: 15
Candidate Starts for Lambert1_49:
(Start: 13 @33722 has 1 MA's), (Start: 14 @33707 has 1 MA's), (Start: 15 @33695 has 18 MA's), (Start: 27 @33665 has 31 MA's), (36, 33596), (60, 33518), (76, 33398), (104, 33137),

Gene: Landor_50 Start: 34892, Stop: 34347, Start Num: 25
Candidate Starts for Landor_50:
(Start: 21 @34907 has 61 MA's), (Start: 25 @34892 has 164 MA's), (68, 34763), (70, 34721), (78, 34664), (83, 34652), (88, 34631), (94, 34604), (97, 34454), (100, 34436),

Gene: LappelDuVide_49 Start: 33387, Stop: 32848, Start Num: 28

Candidate Starts for LappelDuVide_49:
(Start: 13 @33444 has 1 MA's), (Start: 14 @33429 has 1 MA's), (Start: 28 @33387 has 142 MA's), (76, 33129), (83, 33096), (93, 33057), (104, 32889),

Gene: LarryKay_53 Start: 33886, Stop: 33299, Start Num: 23
Candidate Starts for LarryKay_53:
(Start: 23 @33886 has 82 MA's), (Start: 28 @33880 has 142 MA's), (54, 33742), (59, 33733), (67, 33706), (68, 33703), (72, 33643), (76, 33622), (97, 33415), (102, 33367),

Gene: LastResort_53 Start: 32534, Stop: 31992, Start Num: 25
Candidate Starts for LastResort_53:
(Start: 25 @32534 has 164 MA's), (Start: 28 @32528 has 142 MA's), (51, 32423), (63, 32396), (64, 32393), (77, 32282), (80, 32261), (83, 32252), (85, 32243), (97, 32096), (101, 32051),

Gene: Lemur_49 Start: 33385, Stop: 32846, Start Num: 28
Candidate Starts for Lemur_49:
(Start: 13 @33442 has 1 MA's), (Start: 14 @33427 has 1 MA's), (Start: 28 @33385 has 142 MA's), (76, 33127), (83, 33094), (93, 33055), (104, 32887),

Gene: LeoAvram_49 Start: 33388, Stop: 32849, Start Num: 28
Candidate Starts for LeoAvram_49:
(Start: 13 @33445 has 1 MA's), (Start: 14 @33430 has 1 MA's), (Start: 28 @33388 has 142 MA's), (76, 33130), (83, 33097), (93, 33058), (104, 32890),

Gene: Leogania_50 Start: 34849, Stop: 34322, Start Num: 25
Candidate Starts for Leogania_50:
(Start: 21 @34864 has 61 MA's), (Start: 25 @34849 has 164 MA's), (41, 34765), (58, 34723), (66, 34696), (69, 34651), (71, 34645), (73, 34621), (76, 34609), (82, 34582), (97, 34432), (100, 34414), (102, 34384),

Gene: LilTurb_51 Start: 34106, Stop: 33573, Start Num: 21
Candidate Starts for LilTurb_51:
(Start: 21 @34106 has 61 MA's), (Start: 25 @34091 has 164 MA's), (41, 34007), (58, 33971), (69, 33899), (71, 33893), (73, 33869), (74, 33866), (76, 33857), (82, 33830), (97, 33683), (100, 33665), (102, 33635),

Gene: Lilbunny_51 Start: 32558, Stop: 31995, Start Num: 21
Candidate Starts for Lilbunny_51:
(8, 32642), (9, 32639), (Start: 21 @32558 has 61 MA's), (Start: 25 @32543 has 164 MA's), (70, 32333), (71, 32330), (82, 32267), (85, 32258), (97, 32105), (98, 32102),

Gene: Lilith_54 Start: 33849, Stop: 33259, Start Num: 23
Candidate Starts for Lilith_54:
(Start: 23 @33849 has 82 MA's), (Start: 28 @33843 has 142 MA's), (54, 33699), (59, 33690), (67, 33663), (76, 33579), (97, 33375), (102, 33327),

Gene: Lilleskat_48 Start: 33621, Stop: 33058, Start Num: 25
Candidate Starts for Lilleskat_48:
(Start: 21 @33636 has 61 MA's), (Start: 25 @33621 has 164 MA's), (60, 33495), (72, 33405), (94, 33306), (97, 33165),

Gene: Lillie_39 Start: 29798, Stop: 29274, Start Num: 32
Candidate Starts for Lillie_39:

(Start: 32 @29798 has 36 MA's), (54, 29693), (97, 29381), (99, 29372), (100, 29363), (102, 29333),

Gene: LionsBait_52 Start: 35183, Stop: 34656, Start Num: 25
Candidate Starts for LionsBait_52:
(Start: 21 @35198 has 61 MA's), (Start: 25 @35183 has 164 MA's), (58, 35069), (66, 35042), (71, 34991), (73, 34967), (82, 34928), (89, 34901), (97, 34769),

Gene: LittleB_49 Start: 33389, Stop: 32850, Start Num: 28
Candidate Starts for LittleB_49:
(Start: 13 @33446 has 1 MA's), (Start: 14 @33431 has 1 MA's), (Start: 28 @33389 has 142 MA's), (76, 33131), (83, 33098), (93, 33059), (104, 32891),

Gene: LittleCherry_43 Start: 32555, Stop: 32028, Start Num: 27
Candidate Starts for LittleCherry_43:
(Start: 27 @32555 has 31 MA's), (58, 32420), (62, 32414), (86, 32270), (105, 32069), (106, 32051),

Gene: LittleGuy_49 Start: 33284, Stop: 32745, Start Num: 28
Candidate Starts for LittleGuy_49:
(Start: 13 @33341 has 1 MA's), (Start: 14 @33326 has 1 MA's), (Start: 28 @33284 has 142 MA's), (76, 33026), (83, 32993), (93, 32954), (104, 32786),

Gene: LochMonster_50 Start: 33624, Stop: 33085, Start Num: 28
Candidate Starts for LochMonster_50:
(Start: 13 @33681 has 1 MA's), (Start: 14 @33666 has 1 MA's), (Start: 28 @33624 has 142 MA's), (76, 33366), (83, 33333), (93, 33294), (104, 33126),

Gene: LogiBear_53 Start: 32469, Stop: 31933, Start Num: 29
Candidate Starts for LogiBear_53:
(5, 32613), (10, 32550), (12, 32547), (29, 32469), (79, 32199), (83, 32187), (93, 32148), (97, 32034), (98, 32031),

Gene: LoneWolf_51 Start: 33659, Stop: 33093, Start Num: 25
Candidate Starts for LoneWolf_51:
(Start: 21 @33674 has 61 MA's), (Start: 25 @33659 has 164 MA's), (49, 33557), (50, 33554), (72, 33443), (94, 33344), (97, 33200),

Gene: Looper_54 Start: 32511, Stop: 31969, Start Num: 25
Candidate Starts for Looper_54:
(Start: 25 @32511 has 164 MA's), (Start: 28 @32505 has 142 MA's), (51, 32400), (63, 32373), (64, 32370), (77, 32259), (80, 32238), (83, 32229), (85, 32220), (97, 32073), (101, 32028),

Gene: Lorenzo_49 Start: 33388, Stop: 32849, Start Num: 28
Candidate Starts for Lorenzo_49:
(Start: 13 @33445 has 1 MA's), (Start: 14 @33430 has 1 MA's), (Start: 28 @33388 has 142 MA's), (76, 33130), (83, 33097), (93, 33058), (104, 32890),

Gene: Loser_52 Start: 34655, Stop: 34110, Start Num: 21
Candidate Starts for Loser_52:
(Start: 21 @34655 has 61 MA's), (Start: 25 @34640 has 164 MA's), (58, 34520), (66, 34493), (69, 34448), (71, 34442), (73, 34418), (81, 34382), (82, 34379), (85, 34370), (97, 34223), (100, 34205), (102, 34175),

Gene: Louie6_52 Start: 33885, Stop: 33298, Start Num: 23

Candidate Starts for Louie6_52:
(Start: 23 @33885 has 82 MA's), (Start: 28 @33879 has 142 MA's), (54, 33741), (59, 33732), (67, 33705), (68, 33702), (72, 33642), (76, 33621), (97, 33414), (102, 33366),

Gene: Lowa_53 Start: 33848, Stop: 33258, Start Num: 23
Candidate Starts for Lowa_53:
(Start: 23 @33848 has 82 MA's), (Start: 28 @33842 has 142 MA's), (54, 33698), (59, 33689), (67, 33662), (76, 33578), (97, 33374), (102, 33326),

Gene: Luchador_54 Start: 35277, Stop: 34750, Start Num: 25
Candidate Starts for Luchador_54:
(Start: 21 @35292 has 61 MA's), (Start: 25 @35277 has 164 MA's), (41, 35190), (58, 35157), (66, 35130), (69, 35085), (71, 35079), (73, 35055), (82, 35016), (85, 35007), (97, 34860), (102, 34815),

Gene: Lucivia_51 Start: 33320, Stop: 32751, Start Num: 25
Candidate Starts for Lucivia_51:
(Start: 25 @33320 has 164 MA's), (54, 33185), (87, 33020), (97, 32864),

Gene: Lucyedi_51 Start: 33497, Stop: 32934, Start Num: 21
Candidate Starts for Lucyedi_51:
(Start: 21 @33497 has 61 MA's), (Start: 25 @33482 has 164 MA's), (46, 33365), (69, 33263), (71, 33257), (82, 33194), (85, 33185), (97, 33041),

Gene: LugYA_56 Start: 33857, Stop: 33267, Start Num: 23
Candidate Starts for LugYA_56:
(Start: 23 @33857 has 82 MA's), (Start: 28 @33851 has 142 MA's), (54, 33707), (59, 33698), (67, 33671), (76, 33587), (97, 33383), (102, 33335),

Gene: Lunsford_50 Start: 33382, Stop: 32843, Start Num: 28
Candidate Starts for Lunsford_50:
(Start: 13 @33439 has 1 MA's), (Start: 14 @33424 has 1 MA's), (Start: 28 @33382 has 142 MA's), (76, 33124), (83, 33091), (93, 33052), (104, 32884),

Gene: MA5_50 Start: 33050, Stop: 32487, Start Num: 28
Candidate Starts for MA5_50:
(Start: 13 @33107 has 1 MA's), (Start: 14 @33092 has 1 MA's), (Start: 28 @33050 has 142 MA's), (36, 32981), (60, 32903), (67, 32867), (76, 32783), (104, 32528),

Gene: MaCh_51 Start: 33250, Stop: 32684, Start Num: 25
Candidate Starts for MaCh_51:
(Start: 25 @33250 has 164 MA's), (65, 33097), (87, 32956), (97, 32797),

Gene: Mabel_50 Start: 32855, Stop: 32286, Start Num: 25
Candidate Starts for Mabel_50:
(Start: 25 @32855 has 164 MA's), (54, 32720), (87, 32555), (97, 32399),

Gene: MadMarie_53 Start: 33858, Stop: 33268, Start Num: 23
Candidate Starts for MadMarie_53:
(Start: 23 @33858 has 82 MA's), (Start: 28 @33852 has 142 MA's), (54, 33708), (59, 33699), (67, 33672), (76, 33588), (97, 33384), (102, 33336),

Gene: Mainiac_53 Start: 33850, Stop: 33260, Start Num: 23
Candidate Starts for Mainiac_53:

(Start: 23 @33850 has 82 MA's), (Start: 28 @33844 has 142 MA's), (54, 33700), (59, 33691), (67, 33664), (76, 33580), (97, 33376), (102, 33328),

Gene: MajorMajor_49 Start: 32652, Stop: 32137, Start Num: 25
Candidate Starts for MajorMajor_49:
(Start: 25 @32652 has 164 MA's), (41, 32574), (58, 32541), (71, 32463), (73, 32439), (82, 32400), (97, 32247),

Gene: Malinsilva_55 Start: 33848, Stop: 33258, Start Num: 23
Candidate Starts for Malinsilva_55:
(Start: 23 @33848 has 82 MA's), (Start: 28 @33842 has 142 MA's), (54, 33698), (59, 33689), (67, 33662), (76, 33578), (97, 33374), (102, 33326),

Gene: Maminiaina_49 Start: 33426, Stop: 32860, Start Num: 25
Candidate Starts for Maminiaina_49:
(Start: 21 @33441 has 61 MA's), (Start: 25 @33426 has 164 MA's), (49, 33324), (50, 33321), (72, 33210), (94, 33111), (97, 32967),

Gene: Manu_53 Start: 33749, Stop: 33159, Start Num: 23
Candidate Starts for Manu_53:
(Start: 23 @33749 has 82 MA's), (Start: 28 @33743 has 142 MA's), (54, 33599), (59, 33590), (67, 33563), (76, 33479), (97, 33275), (102, 33227),

Gene: MarQuardt_53 Start: 33858, Stop: 33268, Start Num: 23
Candidate Starts for MarQuardt_53:
(Start: 23 @33858 has 82 MA's), (Start: 28 @33852 has 142 MA's), (54, 33708), (59, 33699), (67, 33672), (76, 33588), (97, 33384), (102, 33336),

Gene: Marchesa_50 Start: 33581, Stop: 33030, Start Num: 27
Candidate Starts for Marchesa_50:
(Start: 13 @33638 has 1 MA's), (Start: 14 @33623 has 1 MA's), (Start: 15 @33611 has 18 MA's), (Start: 27 @33581 has 31 MA's), (36, 33512), (60, 33434), (67, 33398), (76, 33314), (104, 33071),

Gene: Margo_49 Start: 33721, Stop: 33122, Start Num: 15
Candidate Starts for Margo_49:
(Start: 13 @33748 has 1 MA's), (Start: 14 @33733 has 1 MA's), (Start: 15 @33721 has 18 MA's), (Start: 27 @33691 has 31 MA's), (36, 33622), (60, 33544), (76, 33424), (104, 33163),

Gene: Marie_53 Start: 33856, Stop: 33266, Start Num: 23
Candidate Starts for Marie_53:
(Start: 23 @33856 has 82 MA's), (Start: 28 @33850 has 142 MA's), (54, 33706), (59, 33697), (67, 33670), (76, 33586), (97, 33382), (102, 33334),

Gene: Marius_54 Start: 33746, Stop: 33156, Start Num: 23
Candidate Starts for Marius_54:
(Start: 23 @33746 has 82 MA's), (Start: 28 @33740 has 142 MA's), (54, 33596), (59, 33587), (67, 33560), (76, 33476), (97, 33272), (102, 33224),

Gene: Maverick_49 Start: 33388, Stop: 32849, Start Num: 28
Candidate Starts for Maverick_49:
(Start: 13 @33445 has 1 MA's), (Start: 14 @33430 has 1 MA's), (Start: 28 @33388 has 142 MA's), (76, 33130), (83, 33097), (93, 33058), (104, 32890),

Gene: Maxo_50 Start: 33390, Stop: 32851, Start Num: 28
Candidate Starts for Maxo_50:
(Start: 13 @33447 has 1 MA's), (Start: 14 @33432 has 1 MA's), (Start: 28 @33390 has 142 MA's), (76, 33132), (83, 33099), (93, 33060), (104, 32892),

Gene: Mayonnaise_48 Start: 33388, Stop: 32849, Start Num: 28
Candidate Starts for Mayonnaise_48:
(Start: 13 @33445 has 1 MA's), (Start: 14 @33430 has 1 MA's), (Start: 28 @33388 has 142 MA's), (76, 33130), (83, 33097), (93, 33058), (104, 32890),

Gene: Mazhar510_49 Start: 33389, Stop: 32850, Start Num: 28
Candidate Starts for Mazhar510_49:
(Start: 13 @33446 has 1 MA's), (Start: 14 @33431 has 1 MA's), (Start: 28 @33389 has 142 MA's), (76, 33131), (83, 33098), (93, 33059), (104, 32891),

Gene: McFly_52 Start: 32778, Stop: 32206, Start Num: 25
Candidate Starts for McFly_52:
(Start: 21 @32793 has 61 MA's), (Start: 25 @32778 has 164 MA's), (52, 32667), (60, 32649), (88, 32487), (94, 32460), (97, 32316), (98, 32313),

Gene: Medusa_49 Start: 33387, Stop: 32848, Start Num: 28
Candidate Starts for Medusa_49:
(Start: 13 @33444 has 1 MA's), (Start: 14 @33429 has 1 MA's), (Start: 28 @33387 has 142 MA's), (76, 33129), (83, 33096), (93, 33057), (104, 32889),

Gene: MeeZee_49 Start: 33385, Stop: 32846, Start Num: 28
Candidate Starts for MeeZee_49:
(Start: 13 @33442 has 1 MA's), (Start: 14 @33427 has 1 MA's), (Start: 28 @33385 has 142 MA's), (76, 33127), (83, 33094), (93, 33055), (104, 32887),

Gene: MegTheThird_49 Start: 33271, Stop: 32711, Start Num: 25
Candidate Starts for MegTheThird_49:
(Start: 21 @33286 has 61 MA's), (Start: 25 @33271 has 164 MA's), (46, 33181), (56, 33157), (72, 33070), (94, 32971), (97, 32818),

Gene: Melvin_51 Start: 33383, Stop: 32844, Start Num: 28
Candidate Starts for Melvin_51:
(Start: 13 @33440 has 1 MA's), (Start: 14 @33425 has 1 MA's), (Start: 28 @33383 has 142 MA's), (76, 33125), (83, 33092), (93, 33053), (104, 32885),

Gene: Methuselah_49 Start: 33880, Stop: 33293, Start Num: 23
Candidate Starts for Methuselah_49:
(Start: 23 @33880 has 82 MA's), (Start: 28 @33874 has 142 MA's), (54, 33736), (59, 33727), (67, 33700), (68, 33697), (72, 33637), (76, 33616), (97, 33409), (102, 33361),

Gene: Micasa_44 Start: 32684, Stop: 32157, Start Num: 27
Candidate Starts for Micasa_44:
(Start: 27 @32684 has 31 MA's), (58, 32549), (62, 32543), (86, 32399), (106, 32180),

Gene: Microwolf_53 Start: 33872, Stop: 33267, Start Num: 23
Candidate Starts for Microwolf_53:
(Start: 23 @33872 has 82 MA's), (Start: 28 @33866 has 142 MA's), (54, 33722), (59, 33713), (67, 33686), (76, 33602), (97, 33383), (102, 33335),

Gene: MiculUcigas_50 Start: 33618, Stop: 33094, Start Num: 21
Candidate Starts for MiculUcigas_50:
(Start: 21 @33618 has 61 MA's), (Start: 25 @33603 has 164 MA's), (41, 33534), (58, 33498), (66, 33471), (69, 33426), (71, 33420), (73, 33396), (76, 33384), (82, 33357), (85, 33348), (89, 33330), (97, 33207),

Gene: Milcery_43 Start: 32512, Stop: 31985, Start Num: 27
Candidate Starts for Milcery_43:
(Start: 27 @32512 has 31 MA's), (58, 32377), (62, 32371), (86, 32227), (106, 32008),

Gene: Millski_48 Start: 33389, Stop: 32850, Start Num: 28
Candidate Starts for Millski_48:
(Start: 13 @33446 has 1 MA's), (Start: 14 @33431 has 1 MA's), (Start: 28 @33389 has 142 MA's), (76, 33131), (83, 33098), (93, 33059), (104, 32891),

Gene: MinecraftSteve_55 Start: 32820, Stop: 32260, Start Num: 25
Candidate Starts for MinecraftSteve_55:
(Start: 25 @32820 has 164 MA's), (Start: 28 @32814 has 142 MA's), (51, 32715), (63, 32688), (64, 32685), (77, 32574), (80, 32553), (83, 32544), (85, 32535), (104, 32316),

Gene: Minispark_49 Start: 33182, Stop: 32655, Start Num: 25
Candidate Starts for Minispark_49:
(Start: 21 @33197 has 61 MA's), (Start: 25 @33182 has 164 MA's), (48, 33083), (58, 33059), (71, 32981), (73, 32957), (82, 32918), (97, 32762),

Gene: Miramae_47 Start: 32831, Stop: 32283, Start Num: 28
Candidate Starts for Miramae_47:
(Start: 28 @32831 has 142 MA's), (62, 32684), (83, 32534), (98, 32372), (104, 32324),

Gene: Misomonster_54 Start: 33883, Stop: 33296, Start Num: 23
Candidate Starts for Misomonster_54:
(Start: 23 @33883 has 82 MA's), (Start: 28 @33877 has 142 MA's), (54, 33739), (59, 33730), (67, 33703), (68, 33700), (72, 33640), (76, 33619), (97, 33412), (102, 33364),

Gene: MissWhite_49 Start: 32171, Stop: 31665, Start Num: 25
Candidate Starts for MissWhite_49:
(Start: 21 @32186 has 61 MA's), (Start: 25 @32171 has 164 MA's), (58, 32063), (70, 31988), (71, 31985), (73, 31961), (82, 31922), (97, 31775), (100, 31757),

Gene: MoneyMay_53 Start: 33856, Stop: 33266, Start Num: 23
Candidate Starts for MoneyMay_53:
(Start: 23 @33856 has 82 MA's), (Start: 28 @33850 has 142 MA's), (54, 33706), (59, 33697), (67, 33670), (76, 33586), (97, 33382), (102, 33334),

Gene: Montavir_52 Start: 33857, Stop: 33267, Start Num: 23
Candidate Starts for Montavir_52:
(Start: 23 @33857 has 82 MA's), (Start: 28 @33851 has 142 MA's), (54, 33707), (59, 33698), (67, 33671), (76, 33587), (97, 33383), (102, 33335),

Gene: Morpher26_48 Start: 33385, Stop: 32846, Start Num: 28
Candidate Starts for Morpher26_48:

(Start: 13 @33442 has 1 MA's), (Start: 14 @33427 has 1 MA's), (Start: 28 @33385 has 142 MA's), (76, 33127), (83, 33094), (93, 33055), (104, 32887),

Gene: Morrow_50 Start: 33394, Stop: 32855, Start Num: 28
Candidate Starts for Morrow_50:
(Start: 13 @33451 has 1 MA's), (Start: 14 @33436 has 1 MA's), (Start: 28 @33394 has 142 MA's), (76, 33136), (83, 33103), (93, 33064), (104, 32896),

Gene: MuchMore_56 Start: 33848, Stop: 33258, Start Num: 23
Candidate Starts for MuchMore_56:
(Start: 23 @33848 has 82 MA's), (Start: 28 @33842 has 142 MA's), (54, 33698), (59, 33689), (67, 33662), (76, 33578), (97, 33374), (102, 33326),

Gene: Mulciber_50 Start: 32811, Stop: 32248, Start Num: 25
Candidate Starts for Mulciber_50:
(Start: 25 @32811 has 164 MA's), (54, 32682), (87, 32517), (97, 32361),

Gene: Munch_51 Start: 33271, Stop: 32702, Start Num: 25
Candidate Starts for Munch_51:
(Start: 25 @33271 has 164 MA's), (54, 33136), (87, 32971), (97, 32815),

Gene: Mundrea_48 Start: 33386, Stop: 32841, Start Num: 28
Candidate Starts for Mundrea_48:
(Start: 28 @33386 has 142 MA's), (62, 33239), (72, 33146), (83, 33089), (104, 32882),

Gene: MyraDee_43 Start: 29930, Stop: 29361, Start Num: 18
Candidate Starts for MyraDee_43:
(Start: 18 @29930 has 1 MA's), (19, 29924), (70, 29705), (80, 29642), (83, 29633), (93, 29594), (97, 29465), (100, 29447),

Gene: Myxus_50 Start: 33634, Stop: 33104, Start Num: 21
Candidate Starts for Myxus_50:
(Start: 21 @33634 has 61 MA's), (Start: 25 @33619 has 164 MA's), (44, 33526), (58, 33502), (71, 33424), (82, 33361), (97, 33211),

Gene: NaSiaTalie_50 Start: 33715, Stop: 33191, Start Num: 21
Candidate Starts for NaSiaTalie_50:
(Start: 21 @33715 has 61 MA's), (Start: 25 @33700 has 164 MA's), (41, 33631), (58, 33595), (66, 33568), (69, 33523), (71, 33517), (73, 33493), (76, 33481), (82, 33454), (85, 33445), (89, 33427), (97, 33304),

Gene: Naca_44 Start: 32823, Stop: 32299, Start Num: 27
Candidate Starts for Naca_44:
(Start: 27 @32823 has 31 MA's), (58, 32691), (62, 32685), (86, 32541),

Gene: Naiad_39 Start: 29811, Stop: 29287, Start Num: 32
Candidate Starts for Naiad_39:
(Start: 32 @29811 has 36 MA's), (54, 29706), (97, 29394), (99, 29385), (100, 29376), (102, 29346),

Gene: Naji_52 Start: 33469, Stop: 32891, Start Num: 25
Candidate Starts for Naji_52:
(Start: 21 @33484 has 61 MA's), (Start: 25 @33469 has 164 MA's), (55, 33352), (58, 33346), (66, 33322), (70, 33274), (90, 33175), (92, 33166), (94, 33157), (97, 33004),

Gene: Nancinator_39 Start: 29797, Stop: 29273, Start Num: 32
Candidate Starts for Nancinator_39:
(Start: 32 @29797 has 36 MA's), (54, 29692), (97, 29380), (99, 29371), (100, 29362), (102, 29332),

Gene: Natosaleda_39 Start: 29796, Stop: 29272, Start Num: 32
Candidate Starts for Natosaleda_39:
(Start: 32 @29796 has 36 MA's), (54, 29691), (97, 29379), (99, 29370), (100, 29361), (102, 29331),

Gene: Nebs_50 Start: 33388, Stop: 32849, Start Num: 28
Candidate Starts for Nebs_50:
(Start: 13 @33445 has 1 MA's), (Start: 14 @33430 has 1 MA's), (Start: 28 @33388 has 142 MA's), (76, 33130), (83, 33097), (93, 33058), (104, 32890),

Gene: Nebulosus_53 Start: 32530, Stop: 31988, Start Num: 25
Candidate Starts for Nebulosus_53:
(Start: 25 @32530 has 164 MA's), (Start: 28 @32524 has 142 MA's), (51, 32419), (63, 32392), (64, 32389), (77, 32278), (80, 32257), (83, 32248), (85, 32239), (97, 32092), (101, 32047),

Gene: Nedarya_49 Start: 31962, Stop: 31435, Start Num: 24
Candidate Starts for Nedarya_49:
(Start: 24 @31962 has 1 MA's), (37, 31896), (49, 31854), (51, 31848), (83, 31689), (97, 31542), (101, 31494),

Gene: Neeharika16_51 Start: 32238, Stop: 31666, Start Num: 25
Candidate Starts for Neeharika16_51:
(Start: 21 @32253 has 61 MA's), (Start: 25 @32238 has 164 MA's), (52, 32127), (60, 32109), (88, 31947), (94, 31920), (97, 31776), (98, 31773),

Gene: Nemo27_49 Start: 33387, Stop: 32848, Start Num: 28
Candidate Starts for Nemo27_49:
(Start: 13 @33444 has 1 MA's), (Start: 14 @33429 has 1 MA's), (Start: 28 @33387 has 142 MA's), (76, 33129), (83, 33096), (93, 33057), (104, 32889),

Gene: Newrala_52 Start: 32795, Stop: 32214, Start Num: 21
Candidate Starts for Newrala_52:
(Start: 21 @32795 has 61 MA's), (Start: 25 @32780 has 164 MA's), (52, 32669), (60, 32651), (88, 32489), (94, 32462), (97, 32324), (98, 32321),

Gene: NicoleTera_49 Start: 33986, Stop: 33456, Start Num: 25
Candidate Starts for NicoleTera_49:
(Start: 21 @34001 has 61 MA's), (Start: 25 @33986 has 164 MA's), (41, 33908), (58, 33872), (62, 33866), (66, 33845), (71, 33794), (76, 33758), (82, 33731), (97, 33569), (100, 33551),

Gene: Noella_49 Start: 33696, Stop: 33097, Start Num: 15
Candidate Starts for Noella_49:
(Start: 13 @33723 has 1 MA's), (Start: 14 @33708 has 1 MA's), (Start: 15 @33696 has 18 MA's), (Start: 27 @33666 has 31 MA's), (36, 33597), (60, 33519), (76, 33399), (104, 33138),

Gene: Noelle_49 Start: 33677, Stop: 33135, Start Num: 28
Candidate Starts for Noelle_49:
(Start: 13 @33734 has 1 MA's), (Start: 14 @33719 has 1 MA's), (Start: 28 @33677 has 142 MA's), (83, 33383), (93, 33344), (104, 33176),

Gene: Norbert_48 Start: 33695, Stop: 33096, Start Num: 15
Candidate Starts for Norbert_48:
(Start: 13 @33722 has 1 MA's), (Start: 14 @33707 has 1 MA's), (Start: 15 @33695 has 18 MA's), (Start: 27 @33665 has 31 MA's), (36, 33596), (60, 33518), (76, 33398), (104, 33137),

Gene: NorthStar_48 Start: 33388, Stop: 32849, Start Num: 28
Candidate Starts for NorthStar_48:
(Start: 13 @33445 has 1 MA's), (Start: 14 @33430 has 1 MA's), (Start: 28 @33388 has 142 MA's), (76, 33130), (83, 33097), (93, 33058), (104, 32890),

Gene: NotAPhaseMom_49 Start: 33392, Stop: 32853, Start Num: 28
Candidate Starts for NotAPhaseMom_49:
(Start: 13 @33449 has 1 MA's), (Start: 14 @33434 has 1 MA's), (Start: 28 @33392 has 142 MA's), (76, 33134), (83, 33101), (93, 33062), (104, 32894),

Gene: Nyxis_49 Start: 33278, Stop: 32739, Start Num: 28
Candidate Starts for Nyxis_49:
(Start: 13 @33335 has 1 MA's), (Start: 14 @33320 has 1 MA's), (Start: 28 @33278 has 142 MA's), (76, 33020), (83, 32987), (93, 32948), (104, 32780),

Gene: OKaNui_49 Start: 33438, Stop: 32899, Start Num: 28
Candidate Starts for OKaNui_49:
(Start: 13 @33495 has 1 MA's), (Start: 14 @33480 has 1 MA's), (Start: 28 @33438 has 142 MA's), (76, 33180), (83, 33147), (93, 33108), (104, 32940),

Gene: Obama12_50 Start: 33809, Stop: 33273, Start Num: 28
Candidate Starts for Obama12_50:
(11, 33872), (Start: 28 @33809 has 142 MA's), (76, 33551), (83, 33518), (93, 33479), (104, 33314),

Gene: Odin_49 Start: 32519, Stop: 31926, Start Num: 25
Candidate Starts for Odin_49:
(Start: 21 @32534 has 61 MA's), (Start: 25 @32519 has 164 MA's), (60, 32375), (70, 32300), (94, 32183), (97, 32036), (98, 32033), (100, 32018), (102, 31991),

Gene: Ohfah_50 Start: 33388, Stop: 32849, Start Num: 28
Candidate Starts for Ohfah_50:
(Start: 13 @33445 has 1 MA's), (Start: 14 @33430 has 1 MA's), (Start: 28 @33388 has 142 MA's), (76, 33130), (83, 33097), (93, 33058), (104, 32890),

Gene: OlanP_52 Start: 33922, Stop: 33329, Start Num: 23
Candidate Starts for OlanP_52:
(Start: 23 @33922 has 82 MA's), (Start: 28 @33916 has 142 MA's), (54, 33769), (59, 33760), (76, 33649), (97, 33445), (102, 33397),

Gene: Ollie_53 Start: 33727, Stop: 33137, Start Num: 23
Candidate Starts for Ollie_53:
(Start: 23 @33727 has 82 MA's), (Start: 28 @33721 has 142 MA's), (54, 33577), (59, 33568), (67, 33541), (76, 33457), (97, 33253), (102, 33205),

Gene: Onglai_48 Start: 31960, Stop: 31445, Start Num: 25
Candidate Starts for Onglai_48:

(Start: 21 @31975 has 61 MA's), (Start: 25 @31960 has 164 MA's), (44, 31867), (58, 31843), (71, 31765), (82, 31702), (97, 31552),

Gene: Oofda_54 Start: 32610, Stop: 32080, Start Num: 25
Candidate Starts for Oofda_54:
(Start: 25 @32610 has 164 MA's), (Start: 28 @32604 has 142 MA's), (37, 32544), (72, 32385), (76, 32367), (83, 32340), (97, 32184), (101, 32139),

Gene: Orange_50 Start: 32820, Stop: 32251, Start Num: 25
Candidate Starts for Orange_50:
(Start: 25 @32820 has 164 MA's), (54, 32685), (87, 32520), (97, 32364),

Gene: P28Green_54 Start: 33859, Stop: 33269, Start Num: 23
Candidate Starts for P28Green_54:
(Start: 23 @33859 has 82 MA's), (Start: 28 @33853 has 142 MA's), (54, 33709), (59, 33700), (67, 33673), (76, 33589), (97, 33385), (102, 33337),

Gene: PGHhamlin_55 Start: 33848, Stop: 33258, Start Num: 23
Candidate Starts for PGHhamlin_55:
(Start: 23 @33848 has 82 MA's), (Start: 28 @33842 has 142 MA's), (54, 33698), (59, 33689), (67, 33662), (76, 33578), (97, 33374), (102, 33326),

Gene: PackMan_49 Start: 33634, Stop: 33104, Start Num: 21
Candidate Starts for PackMan_49:
(Start: 21 @33634 has 61 MA's), (Start: 25 @33619 has 164 MA's), (44, 33526), (58, 33502), (71, 33424), (82, 33361), (97, 33211),

Gene: PainterBoy_51 Start: 33419, Stop: 32871, Start Num: 25
Candidate Starts for PainterBoy_51:
(Start: 21 @33434 has 61 MA's), (Start: 25 @33419 has 164 MA's), (46, 33302), (69, 33200), (71, 33194), (82, 33131), (85, 33122), (97, 32978),

Gene: Palestino_48 Start: 33388, Stop: 32849, Start Num: 28
Candidate Starts for Palestino_48:
(Start: 13 @33445 has 1 MA's), (Start: 14 @33430 has 1 MA's), (Start: 28 @33388 has 142 MA's), (76, 33130), (83, 33097), (93, 33058), (104, 32890),

Gene: Panamaxus_47 Start: 33665, Stop: 33096, Start Num: 27
Candidate Starts for Panamaxus_47:
(Start: 13 @33722 has 1 MA's), (Start: 14 @33707 has 1 MA's), (Start: 15 @33695 has 18 MA's), (Start: 27 @33665 has 31 MA's), (36, 33596), (60, 33518), (76, 33398), (104, 33137),

Gene: Partridge_39 Start: 29958, Stop: 29434, Start Num: 32
Candidate Starts for Partridge_39:
(Start: 32 @29958 has 36 MA's), (54, 29853), (97, 29541), (99, 29532), (100, 29523), (102, 29493),

Gene: Pawn_53 Start: 33753, Stop: 33163, Start Num: 23
Candidate Starts for Pawn_53:
(Start: 23 @33753 has 82 MA's), (Start: 28 @33747 has 142 MA's), (54, 33603), (59, 33594), (67, 33567), (76, 33483), (97, 33279), (102, 33231),

Gene: Peaches_49 Start: 33387, Stop: 32848, Start Num: 28
Candidate Starts for Peaches_49:

(Start: 13 @33444 has 1 MA's), (Start: 14 @33429 has 1 MA's), (Start: 28 @33387 has 142 MA's), (76, 33129), (83, 33096), (93, 33057), (104, 32889),

Gene: Pembroke_53 Start: 33857, Stop: 33267, Start Num: 23
Candidate Starts for Pembroke_53:
(Start: 23 @33857 has 82 MA's), (Start: 28 @33851 has 142 MA's), (54, 33707), (59, 33698), (67, 33671), (76, 33587), (97, 33383), (102, 33335),

Gene: Penny1_54 Start: 33860, Stop: 33270, Start Num: 23
Candidate Starts for Penny1_54:
(Start: 23 @33860 has 82 MA's), (Start: 28 @33854 has 142 MA's), (54, 33710), (59, 33701), (67, 33674), (76, 33590), (97, 33386), (102, 33338),

Gene: Perplexer_48 Start: 33361, Stop: 32822, Start Num: 28
Candidate Starts for Perplexer_48:
(Start: 13 @33418 has 1 MA's), (Start: 14 @33403 has 1 MA's), (Start: 28 @33361 has 142 MA's), (76, 33103), (83, 33070), (93, 33031), (104, 32863),

Gene: PeterPeter_49 Start: 33385, Stop: 32846, Start Num: 28
Candidate Starts for PeterPeter_49:
(Start: 13 @33442 has 1 MA's), (Start: 14 @33427 has 1 MA's), (Start: 28 @33385 has 142 MA's), (76, 33127), (83, 33094), (93, 33055), (104, 32887),

Gene: Petersenfast_49 Start: 32822, Stop: 32253, Start Num: 25
Candidate Starts for Petersenfast_49:
(Start: 25 @32822 has 164 MA's), (54, 32687), (87, 32522), (97, 32366),

Gene: PetiteSangsue_48 Start: 33364, Stop: 32825, Start Num: 28
Candidate Starts for PetiteSangsue_48:
(Start: 13 @33421 has 1 MA's), (Start: 14 @33406 has 1 MA's), (Start: 28 @33364 has 142 MA's), (76, 33106), (83, 33073), (93, 33034), (104, 32866),

Gene: PetterN_46 Start: 32243, Stop: 31719, Start Num: 27
Candidate Starts for PetterN_46:
(Start: 27 @32243 has 31 MA's), (58, 32111), (62, 32105), (86, 31961),

Gene: Ph8s_52 Start: 33102, Stop: 32488, Start Num: 21
Candidate Starts for Ph8s_52:
(Start: 21 @33102 has 61 MA's), (Start: 25 @33087 has 164 MA's), (60, 32934), (70, 32859), (75, 32826), (94, 32742), (95, 32721), (97, 32598), (98, 32595), (102, 32553),

Gene: Phacado_49 Start: 33387, Stop: 32848, Start Num: 28
Candidate Starts for Phacado_49:
(Start: 13 @33444 has 1 MA's), (Start: 14 @33429 has 1 MA's), (Start: 28 @33387 has 142 MA's), (76, 33129), (83, 33096), (93, 33057), (104, 32889),

Gene: Phaded_51 Start: 34886, Stop: 34329, Start Num: 21
Candidate Starts for Phaded_51:
(Start: 21 @34886 has 61 MA's), (Start: 25 @34871 has 164 MA's), (41, 34793), (68, 34736), (70, 34694), (78, 34637), (83, 34625), (88, 34604), (94, 34577), (97, 34436), (100, 34418),

Gene: Phaeder_50 Start: 33619, Stop: 33104, Start Num: 25
Candidate Starts for Phaeder_50:

(Start: 21 @33634 has 61 MA's), (Start: 25 @33619 has 164 MA's), (44, 33526), (58, 33502), (71, 33424), (82, 33361), (97, 33211),

Gene: PhailMary_38 Start: 30120, Stop: 29596, Start Num: 32
Candidate Starts for PhailMary_38:
(Start: 32 @30120 has 36 MA's), (54, 30015), (97, 29703), (99, 29694), (100, 29685), (102, 29655),

Gene: Phelipe_50 Start: 33388, Stop: 32849, Start Num: 28
Candidate Starts for Phelipe_50:
(Start: 13 @33445 has 1 MA's), (Start: 14 @33430 has 1 MA's), (Start: 28 @33388 has 142 MA's), (76, 33130), (83, 33097), (93, 33058), (104, 32890),

Gene: Phighter1804_49 Start: 33451, Stop: 32915, Start Num: 28
Candidate Starts for Phighter1804_49:
(Start: 28 @33451 has 142 MA's), (76, 33193), (83, 33160), (93, 33121), (104, 32956),

Gene: PhishRPhriends_51 Start: 32930, Stop: 32337, Start Num: 23
Candidate Starts for PhishRPhriends_51:
(Start: 23 @32930 has 82 MA's), (Start: 28 @32924 has 142 MA's), (54, 32777), (59, 32768), (67, 32741), (76, 32657), (97, 32453), (102, 32405),

Gene: Phlei_39 Start: 33153, Stop: 32638, Start Num: 31
Candidate Starts for Phlei_39:
(22, 33195), (Start: 28 @33180 has 142 MA's), (31, 33153), (33, 33132), (48, 33078), (61, 33045), (63, 33042), (66, 33021), (72, 32955), (78, 32922), (79, 32919), (83, 32907), (84, 32901), (96, 32832), (97, 32751), (102, 32703),

Gene: Phlorence_41 Start: 32083, Stop: 31556, Start Num: 27
Candidate Starts for Phlorence_41:
(Start: 27 @32083 has 31 MA's), (58, 31948), (62, 31942), (86, 31798), (106, 31579),

Gene: Phoebe_54 Start: 33849, Stop: 33259, Start Num: 23
Candidate Starts for Phoebe_54:
(Start: 23 @33849 has 82 MA's), (Start: 28 @33843 has 142 MA's), (54, 33699), (59, 33690), (67, 33663), (76, 33579), (97, 33375), (102, 33327),

Gene: Phonnegut_50 Start: 33716, Stop: 33153, Start Num: 25
Candidate Starts for Phonnegut_50:
(Start: 21 @33731 has 61 MA's), (Start: 25 @33716 has 164 MA's), (60, 33590), (72, 33500), (94, 33401), (97, 33260),

Gene: Phontbonne_49 Start: 33279, Stop: 32740, Start Num: 28
Candidate Starts for Phontbonne_49:
(Start: 13 @33336 has 1 MA's), (Start: 14 @33321 has 1 MA's), (Start: 28 @33279 has 142 MA's), (76, 33021), (83, 32988), (93, 32949), (104, 32781),

Gene: Phoxy_53 Start: 33881, Stop: 33294, Start Num: 23
Candidate Starts for Phoxy_53:
(Start: 23 @33881 has 82 MA's), (Start: 28 @33875 has 142 MA's), (54, 33737), (59, 33728), (67, 33701), (68, 33698), (72, 33638), (76, 33617), (97, 33410), (102, 33362),

Gene: Phrankenstein_39 Start: 29744, Stop: 29220, Start Num: 32
Candidate Starts for Phrankenstein_39:

(Start: 32 @29744 has 36 MA's), (54, 29639), (97, 29327), (99, 29318), (100, 29309), (102, 29279),

Gene: Phranny_54 Start: 33735, Stop: 33145, Start Num: 23
Candidate Starts for Phranny_54:
(Start: 23 @33735 has 82 MA's), (Start: 28 @33729 has 142 MA's), (54, 33585), (59, 33576), (67, 33549), (76, 33465), (97, 33261), (102, 33213),

Gene: PickleBack_42 Start: 32212, Stop: 31688, Start Num: 27
Candidate Starts for PickleBack_42:
(Start: 27 @32212 has 31 MA's), (58, 32080), (62, 32074), (86, 31930), (106, 31711),

Gene: Pioneer_50 Start: 33716, Stop: 33153, Start Num: 25
Candidate Starts for Pioneer_50:
(Start: 21 @33731 has 61 MA's), (Start: 25 @33716 has 164 MA's), (60, 33590), (72, 33500), (94, 33401), (97, 33260),

Gene: Pipcraft_47 Start: 33388, Stop: 32849, Start Num: 28
Candidate Starts for Pipcraft_47:
(Start: 13 @33445 has 1 MA's), (Start: 14 @33430 has 1 MA's), (Start: 28 @33388 has 142 MA's), (76, 33130), (83, 33097), (93, 33058), (104, 32890),

Gene: Pistachio_52 Start: 33268, Stop: 32705, Start Num: 27
Candidate Starts for Pistachio_52:
(Start: 13 @33325 has 1 MA's), (Start: 14 @33310 has 1 MA's), (Start: 15 @33298 has 18 MA's), (Start: 27 @33268 has 31 MA's), (36, 33199), (60, 33121), (67, 33085), (76, 33001), (104, 32746),

Gene: Pmask_52 Start: 32781, Stop: 32215, Start Num: 25
Candidate Starts for Pmask_52:
(Start: 21 @32796 has 61 MA's), (Start: 25 @32781 has 164 MA's), (52, 32670), (60, 32652), (88, 32490), (94, 32463), (97, 32325), (98, 32322),

Gene: Pocahontas_49 Start: 33692, Stop: 33093, Start Num: 15
Candidate Starts for Pocahontas_49:
(Start: 13 @33719 has 1 MA's), (Start: 14 @33704 has 1 MA's), (Start: 15 @33692 has 18 MA's), (Start: 27 @33662 has 31 MA's), (36, 33593), (60, 33515), (76, 33395), (104, 33134),

Gene: Polymorphads_50 Start: 33381, Stop: 32842, Start Num: 28
Candidate Starts for Polymorphads_50:
(Start: 13 @33438 has 1 MA's), (Start: 14 @33423 has 1 MA's), (Start: 28 @33381 has 142 MA's), (76, 33123), (83, 33090), (93, 33051), (104, 32883),

Gene: Polyphemus_54 Start: 33178, Stop: 32591, Start Num: 21
Candidate Starts for Polyphemus_54:
(Start: 21 @33178 has 61 MA's), (Start: 25 @33163 has 164 MA's), (52, 33052), (60, 33034), (88, 32872), (94, 32845), (97, 32701), (98, 32698),

Gene: Pomar16_52 Start: 33509, Stop: 32931, Start Num: 25
Candidate Starts for Pomar16_52:
(Start: 21 @33524 has 61 MA's), (Start: 25 @33509 has 164 MA's), (55, 33392), (58, 33386), (66, 33362), (70, 33314), (90, 33215), (92, 33206), (94, 33197), (97, 33044),

Gene: Popcicle_49 Start: 33662, Stop: 33093, Start Num: 27
Candidate Starts for Popcicle_49:

(Start: 13 @33719 has 1 MA's), (Start: 14 @33704 has 1 MA's), (Start: 15 @33692 has 18 MA's), (Start: 27 @33662 has 31 MA's), (36, 33593), (60, 33515), (76, 33395), (104, 33134),

Gene: PotatoSplit_55 Start: 33860, Stop: 33270, Start Num: 23
Candidate Starts for PotatoSplit_55:
(Start: 23 @33860 has 82 MA's), (Start: 28 @33854 has 142 MA's), (54, 33710), (59, 33701), (67, 33674), (76, 33590), (97, 33386), (102, 33338),

Gene: Power_49 Start: 33684, Stop: 33163, Start Num: 25
Candidate Starts for Power_49:
(Start: 21 @33699 has 61 MA's), (Start: 25 @33684 has 164 MA's), (58, 33570), (66, 33543), (69, 33498), (71, 33492), (73, 33468), (82, 33429), (85, 33420), (97, 33273), (100, 33255), (102, 33225),

Gene: Priamo_54 Start: 32522, Stop: 31971, Start Num: 25
Candidate Starts for Priamo_54:
(Start: 20 @32537 has 1 MA's), (Start: 25 @32522 has 164 MA's), (70, 32312), (71, 32309), (82, 32246), (85, 32237), (97, 32081), (98, 32078),

Gene: Prinashe11_43 Start: 32375, Stop: 31848, Start Num: 27
Candidate Starts for Prinashe11_43:
(Start: 27 @32375 has 31 MA's), (58, 32240), (62, 32234), (86, 32090), (106, 31871),

Gene: Priya_50 Start: 33686, Stop: 33171, Start Num: 25
Candidate Starts for Priya_50:
(Start: 21 @33701 has 61 MA's), (Start: 25 @33686 has 164 MA's), (44, 33593), (58, 33569), (71, 33491), (82, 33428), (97, 33278),

Gene: Pukovnik_49 Start: 34501, Stop: 33938, Start Num: 21
Candidate Starts for Pukovnik_49:
(Start: 21 @34501 has 61 MA's), (Start: 25 @34486 has 164 MA's), (68, 34354), (70, 34312), (78, 34255), (88, 34222), (94, 34195), (97, 34045), (100, 34027),

Gene: Pumbaa_49 Start: 33333, Stop: 32794, Start Num: 28
Candidate Starts for Pumbaa_49:
(Start: 13 @33390 has 1 MA's), (Start: 14 @33375 has 1 MA's), (Start: 28 @33333 has 142 MA's), (76, 33075), (83, 33042), (93, 33003), (104, 32835),

Gene: Puppy_52 Start: 33370, Stop: 32777, Start Num: 15
Candidate Starts for Puppy_52:
(Start: 13 @33397 has 1 MA's), (Start: 14 @33382 has 1 MA's), (Start: 15 @33370 has 18 MA's), (Start: 27 @33340 has 31 MA's), (36, 33271), (60, 33193), (67, 33157), (76, 33073), (104, 32818),

Gene: PurpleHaze_53 Start: 33748, Stop: 33158, Start Num: 23
Candidate Starts for PurpleHaze_53:
(Start: 23 @33748 has 82 MA's), (Start: 28 @33742 has 142 MA's), (54, 33598), (59, 33589), (67, 33562), (76, 33478), (97, 33274), (102, 33226),

Gene: Qobbit_50 Start: 33648, Stop: 33133, Start Num: 25
Candidate Starts for Qobbit_50:
(Start: 21 @33663 has 61 MA's), (Start: 25 @33648 has 164 MA's), (44, 33555), (58, 33531), (71, 33453), (82, 33390), (97, 33240),

Gene: QueenB2_49 Start: 33638, Stop: 33120, Start Num: 25

Candidate Starts for QueenB2_49:
(Start: 21 @33653 has 61 MA's), (Start: 25 @33638 has 164 MA's), (58, 33524), (66, 33497), (71, 33446), (73, 33422), (82, 33383), (85, 33374), (97, 33230), (100, 33212), (102, 33182),

Gene: QueenBeesly_50 Start: 33631, Stop: 33110, Start Num: 25
Candidate Starts for QueenBeesly_50:
(Start: 21 @33646 has 61 MA's), (Start: 25 @33631 has 164 MA's), (58, 33517), (66, 33490), (69, 33445), (71, 33439), (73, 33415), (82, 33376), (85, 33367), (97, 33220), (100, 33202), (102, 33172),

Gene: QuinnKiro_48 Start: 33695, Stop: 33096, Start Num: 15
Candidate Starts for QuinnKiro_48:
(Start: 13 @33722 has 1 MA's), (Start: 14 @33707 has 1 MA's), (Start: 15 @33695 has 18 MA's), (Start: 27 @33665 has 31 MA's), (36, 33596), (60, 33518), (76, 33398), (104, 33137),

Gene: RER2_32 Start: 26670, Stop: 26146, Start Num: 32
Candidate Starts for RER2_32:
(Start: 32 @26670 has 36 MA's), (54, 26565), (97, 26253), (99, 26244), (100, 26235), (102, 26205),

Gene: RGL3_34 Start: 27554, Stop: 27051, Start Num: 32
Candidate Starts for RGL3_34:
(Start: 28 @27584 has 142 MA's), (Start: 32 @27554 has 36 MA's), (53, 27464), (97, 27158), (99, 27149), (102, 27110),

Gene: Rahalelujah_50 Start: 33197, Stop: 32670, Start Num: 25
Candidate Starts for Rahalelujah_50:
(Start: 21 @33212 has 61 MA's), (Start: 25 @33197 has 164 MA's), (48, 33098), (58, 33074), (71, 32996), (73, 32972), (82, 32933), (97, 32777),

Gene: Rasputin_39 Start: 29768, Stop: 29244, Start Num: 32
Candidate Starts for Rasputin_39:
(Start: 32 @29768 has 36 MA's), (54, 29663), (97, 29351), (99, 29342), (100, 29333), (102, 29303),

Gene: Ravana_56 Start: 33347, Stop: 32817, Start Num: 25
Candidate Starts for Ravana_56:
(Start: 25 @33347 has 164 MA's), (Start: 28 @33341 has 142 MA's), (37, 33281), (72, 33122), (76, 33104), (83, 33077), (97, 32921), (101, 32876),

Gene: ReMo_53 Start: 32531, Stop: 31989, Start Num: 25
Candidate Starts for ReMo_53:
(Start: 25 @32531 has 164 MA's), (Start: 28 @32525 has 142 MA's), (51, 32420), (63, 32393), (64, 32390), (77, 32279), (80, 32258), (83, 32249), (85, 32240), (97, 32093), (101, 32048),

Gene: Reba_53 Start: 33408, Stop: 32818, Start Num: 23
Candidate Starts for Reba_53:
(Start: 23 @33408 has 82 MA's), (Start: 28 @33402 has 142 MA's), (54, 33258), (59, 33249), (67, 33222), (76, 33138), (97, 32934), (102, 32886),

Gene: RedRock_52 Start: 34849, Stop: 34322, Start Num: 25
Candidate Starts for RedRock_52:
(Start: 21 @34864 has 61 MA's), (Start: 25 @34849 has 164 MA's), (58, 34735), (66, 34708), (69, 34663), (71, 34657), (73, 34633), (82, 34594), (97, 34435), (100, 34417), (102, 34387),

Gene: Relief_48 Start: 33385, Stop: 32846, Start Num: 28

Candidate Starts for Relief_48:
(Start: 13 @33442 has 1 MA's), (Start: 14 @33427 has 1 MA's), (Start: 28 @33385 has 142 MA's), (76, 33127), (83, 33094), (93, 33055), (104, 32887),

Gene: Remus_54 Start: 32444, Stop: 31914, Start Num: 25
Candidate Starts for Remus_54:
(Start: 25 @32444 has 164 MA's), (Start: 28 @32438 has 142 MA's), (37, 32378), (72, 32219), (76, 32201), (83, 32174), (97, 32018), (101, 31973),

Gene: ResDef_49 Start: 33695, Stop: 33096, Start Num: 15
Candidate Starts for ResDef_49:
(Start: 13 @33722 has 1 MA's), (Start: 14 @33707 has 1 MA's), (Start: 15 @33695 has 18 MA's), (Start: 27 @33665 has 31 MA's), (36, 33596), (60, 33518), (76, 33398), (104, 33137),

Gene: Retro23_51 Start: 34038, Stop: 33517, Start Num: 25
Candidate Starts for Retro23_51:
(Start: 21 @34053 has 61 MA's), (Start: 25 @34038 has 164 MA's), (58, 33924), (66, 33897), (71, 33846), (73, 33822), (82, 33783), (85, 33774), (97, 33627), (100, 33609), (102, 33579),

Gene: RexFury_39 Start: 29829, Stop: 29305, Start Num: 32
Candidate Starts for RexFury_39:
(Start: 32 @29829 has 36 MA's), (54, 29724), (97, 29412), (99, 29403), (100, 29394), (102, 29364),

Gene: Rhodalysa_39 Start: 29798, Stop: 29274, Start Num: 32
Candidate Starts for Rhodalysa_39:
(Start: 32 @29798 has 36 MA's), (54, 29693), (97, 29381), (99, 29372), (100, 29363), (102, 29333),

Gene: Rifter_53 Start: 32329, Stop: 31766, Start Num: 20
Candidate Starts for Rifter_53:
(Start: 20 @32329 has 1 MA's), (Start: 25 @32314 has 164 MA's), (70, 32104), (71, 32101), (82, 32038), (85, 32029), (97, 31876), (98, 31873),

Gene: RockieBear_48 Start: 33388, Stop: 32849, Start Num: 28
Candidate Starts for RockieBear_48:
(Start: 13 @33445 has 1 MA's), (Start: 14 @33430 has 1 MA's), (Start: 28 @33388 has 142 MA's), (76, 33130), (83, 33097), (93, 33058), (104, 32890),

Gene: Roimos_50 Start: 33511, Stop: 32948, Start Num: 27
Candidate Starts for Roimos_50:
(Start: 13 @33568 has 1 MA's), (Start: 14 @33553 has 1 MA's), (Start: 15 @33541 has 18 MA's), (Start: 27 @33511 has 31 MA's), (36, 33442), (60, 33364), (67, 33328), (76, 33244), (104, 32989),

Gene: Roksolana_53 Start: 32814, Stop: 32257, Start Num: 25
Candidate Starts for Roksolana_53:
(Start: 1 @33012 has 5 MA's), (2, 32997), (3, 32976), (4, 32946), (6, 32940), (Start: 25 @32814 has 164 MA's), (70, 32604), (71, 32601), (82, 32538), (85, 32529), (97, 32367), (98, 32364),

Gene: Romney_49 Start: 33385, Stop: 32846, Start Num: 28
Candidate Starts for Romney_49:
(Start: 13 @33442 has 1 MA's), (Start: 14 @33427 has 1 MA's), (Start: 28 @33385 has 142 MA's), (76, 33127), (83, 33094), (93, 33055), (104, 32887),

Gene: Roosevelt_48 Start: 33390, Stop: 32851, Start Num: 28

Candidate Starts for Roosevelt_48:
(Start: 13 @33447 has 1 MA's), (Start: 14 @33432 has 1 MA's), (Start: 28 @33390 has 142 MA's), (76, 33132), (83, 33099), (93, 33060), (104, 32892),

Gene: Rosa24_48 Start: 33416, Stop: 32880, Start Num: 28
Candidate Starts for Rosa24_48:
(Start: 13 @33473 has 1 MA's), (Start: 14 @33458 has 1 MA's), (Start: 28 @33416 has 142 MA's), (76, 33158), (83, 33125), (93, 33086), (104, 32921),

Gene: Rosalind_53 Start: 32742, Stop: 32176, Start Num: 25
Candidate Starts for Rosalind_53:
(Start: 25 @32742 has 164 MA's), (Start: 28 @32736 has 142 MA's), (51, 32631), (63, 32604), (64, 32601), (77, 32490), (80, 32469), (83, 32460), (85, 32451), (104, 32232),

Gene: Ruin_49 Start: 33381, Stop: 32842, Start Num: 28
Candidate Starts for Ruin_49:
(Start: 13 @33438 has 1 MA's), (Start: 14 @33423 has 1 MA's), (Start: 28 @33381 has 142 MA's), (76, 33123), (83, 33090), (93, 33051), (104, 32883),

Gene: Rummer_52 Start: 33884, Stop: 33297, Start Num: 23
Candidate Starts for Rummer_52:
(Start: 23 @33884 has 82 MA's), (Start: 28 @33878 has 142 MA's), (54, 33740), (59, 33731), (67, 33704), (68, 33701), (72, 33641), (76, 33620), (97, 33413), (102, 33365),

Gene: RyeScarlet_51 Start: 33691, Stop: 33128, Start Num: 25
Candidate Starts for RyeScarlet_51:
(Start: 21 @33706 has 61 MA's), (Start: 25 @33691 has 164 MA's), (60, 33565), (72, 33475), (94, 33376), (97, 33235),

Gene: Sabertooth_49 Start: 33390, Stop: 32851, Start Num: 28
Candidate Starts for Sabertooth_49:
(Start: 13 @33447 has 1 MA's), (Start: 14 @33432 has 1 MA's), (Start: 28 @33390 has 142 MA's), (76, 33132), (83, 33099), (93, 33060), (104, 32892),

Gene: Sabia_53 Start: 33865, Stop: 33260, Start Num: 23
Candidate Starts for Sabia_53:
(Start: 23 @33865 has 82 MA's), (Start: 28 @33859 has 142 MA's), (54, 33715), (59, 33706), (67, 33679), (76, 33595), (97, 33376), (102, 33328),

Gene: Sabinator_52 Start: 33855, Stop: 33265, Start Num: 23
Candidate Starts for Sabinator_52:
(Start: 23 @33855 has 82 MA's), (Start: 28 @33849 has 142 MA's), (54, 33705), (59, 33696), (67, 33669), (76, 33585), (97, 33381), (102, 33333),

Gene: Sachima_47 Start: 33601, Stop: 33038, Start Num: 25
Candidate Starts for Sachima_47:
(Start: 21 @33616 has 61 MA's), (Start: 25 @33601 has 164 MA's), (60, 33475), (72, 33385), (94, 33286), (97, 33145),

Gene: Salz_49 Start: 32793, Stop: 32224, Start Num: 25
Candidate Starts for Salz_49:
(Start: 25 @32793 has 164 MA's), (54, 32658), (87, 32493), (97, 32337),

Gene: Saskia_51 Start: 32794, Stop: 32225, Start Num: 25
Candidate Starts for Saskia_51:
(Start: 25 @32794 has 164 MA's), (54, 32659), (87, 32494), (97, 32338),

Gene: SaturnRing_51 Start: 33721, Stop: 33158, Start Num: 27
Candidate Starts for SaturnRing_51:
(Start: 13 @33778 has 1 MA's), (Start: 14 @33763 has 1 MA's), (Start: 15 @33751 has 18 MA's), (Start: 27 @33721 has 31 MA's), (36, 33652), (60, 33574), (67, 33538), (76, 33454), (104, 33199),

Gene: Scamp_49 Start: 33390, Stop: 32851, Start Num: 28
Candidate Starts for Scamp_49:
(Start: 13 @33447 has 1 MA's), (Start: 14 @33432 has 1 MA's), (Start: 28 @33390 has 142 MA's), (76, 33132), (83, 33099), (93, 33060), (104, 32892),

Gene: Scherzo_50 Start: 33905, Stop: 33342, Start Num: 25
Candidate Starts for Scherzo_50:
(Start: 21 @33920 has 61 MA's), (Start: 25 @33905 has 164 MA's), (60, 33779), (72, 33689), (94, 33590), (97, 33449),

Gene: Scorpia_46 Start: 32329, Stop: 31805, Start Num: 27
Candidate Starts for Scorpia_46:
(Start: 27 @32329 has 31 MA's), (58, 32197), (62, 32191), (86, 32047),

Gene: Scout_50 Start: 32872, Stop: 32279, Start Num: 15
Candidate Starts for Scout_50:
(Start: 13 @32899 has 1 MA's), (Start: 14 @32884 has 1 MA's), (Start: 15 @32872 has 18 MA's), (Start: 27 @32842 has 31 MA's), (36, 32773), (60, 32695), (66, 32662), (67, 32659), (76, 32575), (104, 32320),

Gene: SemperFi_51 Start: 33914, Stop: 33378, Start Num: 21
Candidate Starts for SemperFi_51:
(Start: 21 @33914 has 61 MA's), (Start: 25 @33899 has 164 MA's), (58, 33785), (66, 33758), (69, 33713), (71, 33707), (73, 33683), (82, 33644), (85, 33635), (97, 33488), (100, 33470), (102, 33440),

Gene: SenorClean_49 Start: 33388, Stop: 32849, Start Num: 28
Candidate Starts for SenorClean_49:
(Start: 13 @33445 has 1 MA's), (Start: 14 @33430 has 1 MA's), (Start: 28 @33388 has 142 MA's), (76, 33130), (83, 33097), (93, 33058), (104, 32890),

Gene: Serenity_50 Start: 32842, Stop: 32324, Start Num: 25
Candidate Starts for Serenity_50:
(Start: 25 @32842 has 164 MA's), (41, 32764), (58, 32731), (71, 32653), (76, 32617), (82, 32590), (97, 32434),

Gene: Shaka_49 Start: 33385, Stop: 32846, Start Num: 28
Candidate Starts for Shaka_49:
(Start: 13 @33442 has 1 MA's), (Start: 14 @33427 has 1 MA's), (Start: 28 @33385 has 142 MA's), (76, 33127), (83, 33094), (93, 33055), (104, 32887),

Gene: Sham4_50 Start: 32821, Stop: 32252, Start Num: 25
Candidate Starts for Sham4_50:
(Start: 25 @32821 has 164 MA's), (54, 32686), (87, 32521), (97, 32365),

Gene: ShayRa_55 Start: 32786, Stop: 32223, Start Num: 25
Candidate Starts for ShayRa_55:
(Start: 25 @32786 has 164 MA's), (Start: 28 @32780 has 142 MA's), (51, 32678), (63, 32651), (64, 32648), (77, 32537), (80, 32516), (83, 32507), (85, 32498), (104, 32279),

Gene: SheaKeira_49 Start: 33305, Stop: 32739, Start Num: 25
Candidate Starts for SheaKeira_49:
(Start: 21 @33320 has 61 MA's), (Start: 25 @33305 has 164 MA's), (44, 33215), (57, 33182), (94, 32990), (97, 32846),

Gene: Sheen_50 Start: 35605, Stop: 35081, Start Num: 30
Candidate Starts for Sheen_50:
(Start: 30 @35605 has 1 MA's), (52, 35509), (70, 35416), (79, 35353), (80, 35350), (83, 35341), (91, 35308), (98, 35173), (104, 35128),

Gene: SheldonCooper_51 Start: 33808, Stop: 33272, Start Num: 28
Candidate Starts for SheldonCooper_51:
(11, 33871), (Start: 28 @33808 has 142 MA's), (76, 33550), (83, 33517), (93, 33478), (104, 33313),

Gene: Shuman_39 Start: 29809, Stop: 29285, Start Num: 32
Candidate Starts for Shuman_39:
(Start: 32 @29809 has 36 MA's), (54, 29704), (97, 29392), (99, 29383), (100, 29374), (102, 29344),

Gene: Shygu2_48 Start: 33364, Stop: 32825, Start Num: 28
Candidate Starts for Shygu2_48:
(Start: 13 @33421 has 1 MA's), (Start: 14 @33406 has 1 MA's), (Start: 28 @33364 has 142 MA's), (83, 33073), (93, 33034), (104, 32866),

Gene: Skipitt_48 Start: 33382, Stop: 32843, Start Num: 28
Candidate Starts for Skipitt_48:
(Start: 13 @33439 has 1 MA's), (Start: 14 @33424 has 1 MA's), (Start: 28 @33382 has 142 MA's), (76, 33124), (83, 33091), (93, 33052), (104, 32884),

Gene: Sknot_50 Start: 33718, Stop: 33194, Start Num: 21
Candidate Starts for Sknot_50:
(Start: 21 @33718 has 61 MA's), (Start: 25 @33703 has 164 MA's), (41, 33634), (58, 33598), (66, 33571), (69, 33526), (71, 33520), (73, 33496), (76, 33484), (82, 33457), (85, 33448), (89, 33430), (97, 33307),

Gene: Smeagan_53 Start: 34354, Stop: 33827, Start Num: 25
Candidate Starts for Smeagan_53:
(Start: 21 @34369 has 61 MA's), (Start: 25 @34354 has 164 MA's), (41, 34267), (58, 34231), (66, 34204), (69, 34159), (71, 34153), (73, 34129), (82, 34090), (97, 33937), (100, 33919), (102, 33889),

Gene: SmellyB_52 Start: 32793, Stop: 32206, Start Num: 21
Candidate Starts for SmellyB_52:
(Start: 21 @32793 has 61 MA's), (Start: 25 @32778 has 164 MA's), (52, 32667), (60, 32649), (88, 32487), (94, 32460), (97, 32316), (98, 32313),

Gene: SnapTap_50 Start: 33710, Stop: 33189, Start Num: 25
Candidate Starts for SnapTap_50:
(Start: 21 @33725 has 61 MA's), (Start: 25 @33710 has 164 MA's), (58, 33596), (66, 33569), (69, 33524), (71, 33518), (73, 33494), (82, 33455), (85, 33446), (97, 33299), (100, 33281), (102, 33251),

Gene: Snape_50 Start: 32813, Stop: 32250, Start Num: 25
Candidate Starts for Snape_50:
(Start: 25 @32813 has 164 MA's), (54, 32684), (87, 32519), (97, 32363),

Gene: Snickers_53 Start: 33830, Stop: 33240, Start Num: 23
Candidate Starts for Snickers_53:
(Start: 23 @33830 has 82 MA's), (Start: 28 @33824 has 142 MA's), (54, 33680), (59, 33671), (67, 33644), (76, 33560), (97, 33356), (102, 33308),

Gene: SoYo_53 Start: 33768, Stop: 33178, Start Num: 23
Candidate Starts for SoYo_53:
(Start: 23 @33768 has 82 MA's), (Start: 28 @33762 has 142 MA's), (54, 33618), (59, 33609), (67, 33582), (76, 33498), (97, 33294), (102, 33246),

Gene: SoilDragon_53 Start: 33304, Stop: 32714, Start Num: 23
Candidate Starts for SoilDragon_53:
(Start: 23 @33304 has 82 MA's), (Start: 28 @33298 has 142 MA's), (54, 33154), (59, 33145), (67, 33118), (76, 33034), (97, 32830), (102, 32782),

Gene: SororFago_52 Start: 34625, Stop: 34074, Start Num: 21
Candidate Starts for SororFago_52:
(Start: 21 @34625 has 61 MA's), (Start: 25 @34610 has 164 MA's), (39, 34526), (41, 34517), (58, 34484), (66, 34457), (69, 34412), (71, 34406), (73, 34382), (82, 34343), (85, 34334), (97, 34184), (102, 34139),

Gene: Soshari_55 Start: 33880, Stop: 33293, Start Num: 23
Candidate Starts for Soshari_55:
(Start: 23 @33880 has 82 MA's), (Start: 28 @33874 has 142 MA's), (54, 33736), (59, 33727), (67, 33700), (68, 33697), (72, 33637), (76, 33616), (97, 33409), (102, 33361),

Gene: Soups_55 Start: 33022, Stop: 32456, Start Num: 25
Candidate Starts for Soups_55:
(Start: 25 @33022 has 164 MA's), (Start: 28 @33016 has 142 MA's), (51, 32911), (63, 32884), (64, 32881), (77, 32770), (80, 32749), (83, 32740), (85, 32731), (104, 32512),

Gene: Sparxx_50 Start: 33383, Stop: 32844, Start Num: 28
Candidate Starts for Sparxx_50:
(Start: 13 @33440 has 1 MA's), (Start: 14 @33425 has 1 MA's), (Start: 28 @33383 has 142 MA's), (76, 33125), (83, 33092), (93, 33053), (104, 32885),

Gene: Spike509_53 Start: 33881, Stop: 33294, Start Num: 23
Candidate Starts for Spike509_53:
(Start: 23 @33881 has 82 MA's), (Start: 28 @33875 has 142 MA's), (54, 33737), (59, 33728), (67, 33701), (68, 33698), (72, 33638), (76, 33617), (97, 33410), (102, 33362),

Gene: Spino_48 Start: 33388, Stop: 32849, Start Num: 28
Candidate Starts for Spino_48:
(Start: 13 @33445 has 1 MA's), (Start: 14 @33430 has 1 MA's), (Start: 28 @33388 has 142 MA's), (76, 33130), (83, 33097), (93, 33058), (104, 32890),

Gene: Spouty_50 Start: 33685, Stop: 33170, Start Num: 25
Candidate Starts for Spouty_50:

(Start: 21 @33700 has 61 MA's), (Start: 25 @33685 has 164 MA's), (44, 33592), (58, 33568), (71, 33490), (82, 33427), (97, 33277),

Gene: StCroix_39 Start: 29811, Stop: 29287, Start Num: 32
Candidate Starts for StCroix_39:
(Start: 32 @29811 has 36 MA's), (54, 29706), (97, 29394), (99, 29385), (100, 29376), (102, 29346),

Gene: Stagni_53 Start: 33859, Stop: 33269, Start Num: 23
Candidate Starts for Stagni_53:
(Start: 23 @33859 has 82 MA's), (Start: 28 @33853 has 142 MA's), (54, 33709), (59, 33700), (67, 33673), (76, 33589), (97, 33385), (102, 33337),

Gene: StarStuff_52 Start: 33471, Stop: 32893, Start Num: 25
Candidate Starts for StarStuff_52:
(Start: 21 @33486 has 61 MA's), (Start: 25 @33471 has 164 MA's), (55, 33354), (58, 33348), (66, 33324), (70, 33276), (90, 33177), (92, 33168), (94, 33159), (97, 33006),

Gene: Stasia_48 Start: 33264, Stop: 32728, Start Num: 28
Candidate Starts for Stasia_48:
(Start: 13 @33321 has 1 MA's), (Start: 14 @33306 has 1 MA's), (Start: 28 @33264 has 142 MA's), (76, 33006), (83, 32973), (93, 32934), (98, 32817), (104, 32769),

Gene: SteMason_48 Start: 33385, Stop: 32846, Start Num: 28
Candidate Starts for SteMason_48:
(Start: 13 @33442 has 1 MA's), (Start: 14 @33427 has 1 MA's), (Start: 28 @33385 has 142 MA's), (76, 33127), (83, 33094), (93, 33055), (104, 32887),

Gene: StepMih_53 Start: 33850, Stop: 33260, Start Num: 23
Candidate Starts for StepMih_53:
(Start: 23 @33850 has 82 MA's), (Start: 28 @33844 has 142 MA's), (54, 33700), (59, 33691), (67, 33664), (76, 33580), (97, 33376), (102, 33328),

Gene: Stink_48 Start: 33111, Stop: 32563, Start Num: 28
Candidate Starts for Stink_48:
(Start: 28 @33111 has 142 MA's), (62, 32964), (83, 32814), (98, 32652), (104, 32604),

Gene: Strosahl_54 Start: 32444, Stop: 31914, Start Num: 25
Candidate Starts for Strosahl_54:
(Start: 25 @32444 has 164 MA's), (Start: 28 @32438 has 142 MA's), (37, 32378), (72, 32219), (76, 32201), (83, 32174), (97, 32018), (101, 31973),

Gene: Sultana_49 Start: 33388, Stop: 32849, Start Num: 28
Candidate Starts for Sultana_49:
(Start: 13 @33445 has 1 MA's), (Start: 14 @33430 has 1 MA's), (Start: 28 @33388 has 142 MA's), (76, 33130), (83, 33097), (93, 33058), (104, 32890),

Gene: Sunhee_53 Start: 33028, Stop: 32519, Start Num: 25
Candidate Starts for Sunhee_53:
(Start: 21 @33043 has 61 MA's), (Start: 25 @33028 has 164 MA's), (58, 32914), (66, 32887), (69, 32842), (71, 32836), (73, 32812), (82, 32773), (97, 32629), (102, 32584),

Gene: SuperAwesome_52 Start: 32807, Stop: 32214, Start Num: 21
Candidate Starts for SuperAwesome_52:

(Start: 21 @32807 has 61 MA's), (Start: 25 @32792 has 164 MA's), (52, 32681), (60, 32663), (88, 32501), (94, 32474), (97, 32324), (98, 32321),

Gene: SuperCallie99_51 Start: 32665, Stop: 32087, Start Num: 25
Candidate Starts for SuperCallie99_51:
(Start: 21 @32680 has 61 MA's), (Start: 25 @32665 has 164 MA's), (52, 32554), (60, 32536), (88, 32374), (94, 32347), (97, 32197), (98, 32194),

Gene: Superchunk_49 Start: 32358, Stop: 31759, Start Num: 25
Candidate Starts for Superchunk_49:
(Start: 21 @32373 has 61 MA's), (Start: 25 @32358 has 164 MA's), (60, 32208), (70, 32133), (77, 32088), (94, 32016), (97, 31869), (98, 31866), (100, 31851), (102, 31824),

Gene: Swann_39 Start: 29796, Stop: 29272, Start Num: 32
Candidate Starts for Swann_39:
(Start: 32 @29796 has 36 MA's), (54, 29691), (97, 29379), (99, 29370), (100, 29361), (102, 29331),

Gene: SweetiePie_50 Start: 33842, Stop: 33318, Start Num: 25
Candidate Starts for SweetiePie_50:
(Start: 21 @33857 has 61 MA's), (Start: 25 @33842 has 164 MA's), (58, 33728), (66, 33701), (69, 33656), (71, 33650), (73, 33626), (82, 33587), (85, 33578), (97, 33428), (100, 33410), (102, 33380),

Gene: SwirlSquare_53 Start: 33029, Stop: 32430, Start Num: 21
Candidate Starts for SwirlSquare_53:
(Start: 21 @33029 has 61 MA's), (Start: 25 @33014 has 164 MA's), (68, 32849), (72, 32789), (94, 32690), (97, 32537), (98, 32534), (102, 32492),

Gene: Swirley_45 Start: 32876, Stop: 32349, Start Num: 27
Candidate Starts for Swirley_45:
(Start: 27 @32876 has 31 MA's), (58, 32741), (62, 32735), (86, 32591), (106, 32372),

Gene: Switzerland_54 Start: 32922, Stop: 32356, Start Num: 25
Candidate Starts for Switzerland_54:
(Start: 25 @32922 has 164 MA's), (Start: 28 @32916 has 142 MA's), (51, 32811), (63, 32784), (64, 32781), (77, 32670), (80, 32649), (83, 32640), (85, 32631), (104, 32412),

Gene: TNguyen7_51 Start: 33687, Stop: 33124, Start Num: 27
Candidate Starts for TNguyen7_51:
(Start: 13 @33744 has 1 MA's), (Start: 14 @33729 has 1 MA's), (Start: 15 @33717 has 18 MA's), (Start: 27 @33687 has 31 MA's), (36, 33618), (60, 33540), (67, 33504), (76, 33420), (104, 33165),

Gene: TWAMP_39 Start: 29798, Stop: 29274, Start Num: 32
Candidate Starts for TWAMP_39:
(Start: 32 @29798 has 36 MA's), (54, 29693), (97, 29381), (99, 29372), (100, 29363), (102, 29333),

Gene: Takoda_39 Start: 29771, Stop: 29247, Start Num: 32
Candidate Starts for Takoda_39:
(Start: 32 @29771 has 36 MA's), (54, 29666), (97, 29354), (99, 29345), (100, 29336), (102, 29306),

Gene: Taquarus_49 Start: 33391, Stop: 32852, Start Num: 28
Candidate Starts for Taquarus_49:
(Start: 13 @33448 has 1 MA's), (Start: 14 @33433 has 1 MA's), (Start: 28 @33391 has 142 MA's), (76, 33133), (83, 33100), (93, 33061), (104, 32893),

Gene: TarsusIV_49 Start: 33682, Stop: 33143, Start Num: 25
Candidate Starts for TarsusIV_49:
(Start: 21 @33697 has 61 MA's), (Start: 25 @33682 has 164 MA's), (42, 33598), (58, 33562), (66, 33535), (69, 33490), (71, 33484), (73, 33460), (81, 33424), (82, 33421), (85, 33412), (97, 33256),

Gene: Tarynearal_41 Start: 32318, Stop: 31791, Start Num: 27
Candidate Starts for Tarynearal_41:
(Start: 27 @32318 has 31 MA's), (58, 32183), (62, 32177), (86, 32033), (106, 31814),

Gene: Taurus_54 Start: 33856, Stop: 33266, Start Num: 23
Candidate Starts for Taurus_54:
(Start: 23 @33856 has 82 MA's), (Start: 28 @33850 has 142 MA's), (54, 33706), (59, 33697), (67, 33670), (76, 33586), (97, 33382), (102, 33334),

Gene: Temprado_53 Start: 32927, Stop: 32364, Start Num: 21
Candidate Starts for Temprado_53:
(7, 33026), (8, 33011), (Start: 21 @32927 has 61 MA's), (Start: 25 @32912 has 164 MA's), (70, 32702), (71, 32699), (82, 32636), (85, 32627), (97, 32474), (98, 32471),

Gene: Terrific_53 Start: 34057, Stop: 33548, Start Num: 25
Candidate Starts for Terrific_53:
(Start: 21 @34072 has 61 MA's), (Start: 25 @34057 has 164 MA's), (41, 33988), (58, 33952), (66, 33925), (69, 33880), (71, 33874), (73, 33850), (76, 33838), (82, 33811), (85, 33802), (89, 33784), (97, 33661),

Gene: Texage_48 Start: 33696, Stop: 33097, Start Num: 15
Candidate Starts for Texage_48:
(Start: 13 @33723 has 1 MA's), (Start: 14 @33708 has 1 MA's), (Start: 15 @33696 has 18 MA's), (Start: 27 @33666 has 31 MA's), (36, 33597), (60, 33519), (76, 33399), (104, 33138),

Gene: Thanksgivukkah_48 Start: 33428, Stop: 32847, Start Num: 14
Candidate Starts for Thanksgivukkah_48:
(Start: 13 @33443 has 1 MA's), (Start: 14 @33428 has 1 MA's), (Start: 28 @33386 has 142 MA's), (76, 33128), (83, 33095), (93, 33056), (104, 32888),

Gene: Tiffany_53 Start: 33742, Stop: 33152, Start Num: 23
Candidate Starts for Tiffany_53:
(Start: 23 @33742 has 82 MA's), (Start: 28 @33736 has 142 MA's), (54, 33592), (59, 33583), (67, 33556), (76, 33472), (97, 33268), (102, 33220),

Gene: Timothy_50 Start: 32790, Stop: 32227, Start Num: 25
Candidate Starts for Timothy_50:
(Start: 25 @32790 has 164 MA's), (54, 32661), (87, 32496), (97, 32340),

Gene: TinaFeyge_49 Start: 33383, Stop: 32844, Start Num: 28
Candidate Starts for TinaFeyge_49:
(Start: 13 @33440 has 1 MA's), (Start: 14 @33425 has 1 MA's), (Start: 28 @33383 has 142 MA's), (76, 33125), (83, 33092), (93, 33053), (104, 32885),

Gene: TinyPebbles_52 Start: 33886, Stop: 33299, Start Num: 23
Candidate Starts for TinyPebbles_52:

(Start: 23 @33886 has 82 MA's), (Start: 28 @33880 has 142 MA's), (54, 33742), (59, 33733), (67, 33706), (68, 33703), (72, 33643), (76, 33622), (97, 33415), (102, 33367),

Gene: TinyTimmy_50 Start: 32839, Stop: 32270, Start Num: 25
Candidate Starts for TinyTimmy_50:
(Start: 25 @32839 has 164 MA's), (54, 32704), (87, 32539), (97, 32383),

Gene: Tinybot_48 Start: 33415, Stop: 32876, Start Num: 28
Candidate Starts for Tinybot_48:
(Start: 13 @33472 has 1 MA's), (Start: 14 @33457 has 1 MA's), (Start: 28 @33415 has 142 MA's), (76, 33157), (83, 33124), (93, 33085), (104, 32917),

Gene: TipsytheTRex_46 Start: 32912, Stop: 32397, Start Num: 25
Candidate Starts for TipsytheTRex_46:
(Start: 25 @32912 has 164 MA's), (41, 32834), (58, 32801), (71, 32723), (76, 32687), (82, 32660), (97, 32507),

Gene: TiroTheta9_49 Start: 33382, Stop: 32843, Start Num: 28
Candidate Starts for TiroTheta9_49:
(Start: 13 @33439 has 1 MA's), (Start: 14 @33424 has 1 MA's), (Start: 28 @33382 has 142 MA's), (76, 33124), (83, 33091), (93, 33052), (104, 32884),

Gene: Toaka_50 Start: 33510, Stop: 32944, Start Num: 25
Candidate Starts for Toaka_50:
(Start: 21 @33525 has 61 MA's), (Start: 25 @33510 has 164 MA's), (49, 33411), (50, 33408), (72, 33297), (94, 33198), (97, 33051),

Gene: Todacoro_49 Start: 33695, Stop: 33096, Start Num: 15
Candidate Starts for Todacoro_49:
(Start: 13 @33722 has 1 MA's), (Start: 14 @33707 has 1 MA's), (Start: 15 @33695 has 18 MA's), (Start: 27 @33665 has 31 MA's), (36, 33596), (60, 33518), (76, 33398), (104, 33137),

Gene: Tomathan_52 Start: 33468, Stop: 32890, Start Num: 25
Candidate Starts for Tomathan_52:
(Start: 21 @33483 has 61 MA's), (Start: 25 @33468 has 164 MA's), (55, 33351), (58, 33345), (66, 33321), (70, 33273), (74, 33243), (90, 33174), (92, 33165), (94, 33156), (97, 33003),

Gene: ToneTone_49 Start: 32472, Stop: 31927, Start Num: 25
Candidate Starts for ToneTone_49:
(7, 32586), (8, 32571), (Start: 21 @32487 has 61 MA's), (Start: 25 @32472 has 164 MA's), (70, 32262), (71, 32259), (82, 32196), (85, 32187), (97, 32037), (98, 32034),

Gene: Toro_52 Start: 35717, Stop: 35193, Start Num: 30
Candidate Starts for Toro_52:
(Start: 30 @35717 has 1 MA's), (52, 35621), (80, 35462), (83, 35453), (91, 35420), (98, 35285), (104, 35240),

Gene: Travvers_52 Start: 33468, Stop: 32890, Start Num: 25
Candidate Starts for Travvers_52:
(Start: 21 @33483 has 61 MA's), (Start: 25 @33468 has 164 MA's), (55, 33351), (58, 33345), (66, 33321), (70, 33273), (90, 33174), (92, 33165), (94, 33156), (97, 33003),

Gene: Tristan_49 Start: 34693, Stop: 34133, Start Num: 21

Candidate Starts for Tristan_49:
(Start: 21 @34693 has 61 MA's), (Start: 25 @34678 has 164 MA's), (68, 34549), (70, 34507), (78, 34450), (83, 34438), (88, 34417), (94, 34390), (97, 34240), (100, 34222),

Gene: Trixie_48 Start: 33814, Stop: 33275, Start Num: 21
Candidate Starts for Trixie_48:
(Start: 21 @33814 has 61 MA's), (Start: 25 @33799 has 164 MA's), (41, 33712), (66, 33649), (71, 33598), (73, 33574), (82, 33535), (97, 33385), (100, 33367), (102, 33337),

Gene: Trooper_51 Start: 34077, Stop: 33538, Start Num: 21
Candidate Starts for Trooper_51:
(16, 34089), (Start: 21 @34077 has 61 MA's), (Start: 25 @34062 has 164 MA's), (41, 33984), (58, 33948), (66, 33921), (71, 33870), (73, 33846), (76, 33834), (82, 33807), (97, 33651), (100, 33633),

Gene: TroyPia_50 Start: 33386, Stop: 32847, Start Num: 28
Candidate Starts for TroyPia_50:
(Start: 13 @33443 has 1 MA's), (Start: 14 @33428 has 1 MA's), (Start: 28 @33386 has 142 MA's), (76, 33128), (83, 33095), (93, 33056), (104, 32888),

Gene: Tubs_50 Start: 33619, Stop: 33104, Start Num: 25
Candidate Starts for Tubs_50:
(Start: 21 @33634 has 61 MA's), (Start: 25 @33619 has 164 MA's), (44, 33526), (58, 33502), (71, 33424), (82, 33361), (97, 33211),

Gene: Tucker_53 Start: 32940, Stop: 32392, Start Num: 25
Candidate Starts for Tucker_53:
(Start: 20 @32955 has 1 MA's), (Start: 25 @32940 has 164 MA's), (70, 32730), (71, 32727), (82, 32664), (85, 32655), (97, 32502), (98, 32499),

Gene: Turbido_51 Start: 34088, Stop: 33570, Start Num: 25
Candidate Starts for Turbido_51:
(Start: 21 @34103 has 61 MA's), (Start: 25 @34088 has 164 MA's), (41, 34004), (58, 33968), (69, 33896), (71, 33890), (73, 33866), (74, 33863), (82, 33827), (97, 33680), (100, 33662), (102, 33632),

Gene: Twigg_43 Start: 32515, Stop: 31988, Start Num: 27
Candidate Starts for Twigg_43:
(Start: 27 @32515 has 31 MA's), (58, 32380), (62, 32374), (86, 32230), (105, 32029), (106, 32011),

Gene: TygerBlood_49 Start: 33388, Stop: 32849, Start Num: 28
Candidate Starts for TygerBlood_49:
(Start: 13 @33445 has 1 MA's), (Start: 14 @33430 has 1 MA's), (Start: 28 @33388 has 142 MA's), (76, 33130), (83, 33097), (93, 33058), (104, 32890),

Gene: Ugenie5_47 Start: 33904, Stop: 33341, Start Num: 25
Candidate Starts for Ugenie5_47:
(Start: 21 @33919 has 61 MA's), (Start: 25 @33904 has 164 MA's), (60, 33778), (72, 33688), (94, 33589), (97, 33448),

Gene: UhSalsa_39 Start: 29797, Stop: 29273, Start Num: 32
Candidate Starts for UhSalsa_39:
(Start: 32 @29797 has 36 MA's), (54, 29692), (97, 29380), (99, 29371), (100, 29362), (102, 29332),

Gene: Ulysses_48 Start: 33065, Stop: 32526, Start Num: 28

Candidate Starts for Ulysses_48:
(Start: 13 @33122 has 1 MA's), (Start: 14 @33107 has 1 MA's), (Start: 28 @33065 has 142 MA's), (76, 32807), (83, 32774), (93, 32735), (104, 32567),

Gene: UnionJack_43 Start: 31830, Stop: 31306, Start Num: 27
Candidate Starts for UnionJack_43:
(Start: 27 @31830 has 31 MA's), (58, 31698), (62, 31692), (86, 31548), (106, 31329),

Gene: Updawg_51 Start: 33944, Stop: 33435, Start Num: 25
Candidate Starts for Updawg_51:
(Start: 21 @33959 has 61 MA's), (Start: 25 @33944 has 164 MA's), (41, 33875), (58, 33839), (66, 33812), (69, 33767), (71, 33761), (73, 33737), (76, 33725), (82, 33698), (85, 33689), (89, 33671), (97, 33548),

Gene: VA6_51 Start: 34058, Stop: 33534, Start Num: 25
Candidate Starts for VA6_51:
(Start: 21 @34073 has 61 MA's), (Start: 25 @34058 has 164 MA's), (50, 33953), (66, 33908), (73, 33833), (82, 33794), (97, 33644), (100, 33626), (102, 33596),

Gene: VC3_53 Start: 33887, Stop: 33309, Start Num: 25
Candidate Starts for VC3_53:
(Start: 21 @33902 has 61 MA's), (Start: 25 @33887 has 164 MA's), (55, 33773), (58, 33767), (66, 33740), (70, 33692), (74, 33662), (89, 33596), (90, 33593), (92, 33584), (94, 33575), (97, 33422),

Gene: Vanisoa_50 Start: 34540, Stop: 33974, Start Num: 25
Candidate Starts for Vanisoa_50:
(Start: 21 @34555 has 61 MA's), (Start: 25 @34540 has 164 MA's), (56, 34429), (94, 34234), (97, 34081),

Gene: Veracruz_48 Start: 33695, Stop: 33096, Start Num: 15
Candidate Starts for Veracruz_48:
(Start: 13 @33722 has 1 MA's), (Start: 14 @33707 has 1 MA's), (Start: 15 @33695 has 18 MA's), (Start: 27 @33665 has 31 MA's), (36, 33596), (60, 33518), (76, 33398), (104, 33137),

Gene: Vix_53 Start: 33939, Stop: 33349, Start Num: 23
Candidate Starts for Vix_53:
(Start: 23 @33939 has 82 MA's), (Start: 28 @33933 has 142 MA's), (54, 33789), (59, 33780), (67, 33753), (76, 33669), (97, 33465), (102, 33417),

Gene: VohminGhazi_52 Start: 32779, Stop: 32207, Start Num: 25
Candidate Starts for VohminGhazi_52:
(Start: 21 @32794 has 61 MA's), (Start: 25 @32779 has 164 MA's), (52, 32668), (60, 32650), (88, 32488), (94, 32461), (97, 32317), (98, 32314),

Gene: Waits_54 Start: 32652, Stop: 32116, Start Num: 25
Candidate Starts for Waits_54:
(Start: 25 @32652 has 164 MA's), (Start: 28 @32646 has 142 MA's), (37, 32586), (72, 32427), (76, 32409), (83, 32382), (97, 32220), (101, 32175),

Gene: Wander_49 Start: 33385, Stop: 32846, Start Num: 28
Candidate Starts for Wander_49:
(Start: 13 @33442 has 1 MA's), (Start: 14 @33427 has 1 MA's), (Start: 28 @33385 has 142 MA's), (76, 33127), (83, 33094), (93, 33055), (104, 32887),

Gene: Warrior24_56 Start: 33065, Stop: 32535, Start Num: 25
Candidate Starts for Warrior24_56:
(Start: 25 @33065 has 164 MA's), (Start: 28 @33059 has 142 MA's), (37, 32999), (72, 32840), (76, 32822), (83, 32795), (97, 32639), (101, 32594),

Gene: Watson_53 Start: 33848, Stop: 33258, Start Num: 23
Candidate Starts for Watson_53:
(Start: 23 @33848 has 82 MA's), (Start: 28 @33842 has 142 MA's), (54, 33698), (59, 33689), (67, 33662), (76, 33578), (97, 33374), (102, 33326),

Gene: WeiHuaDA_52 Start: 34601, Stop: 34083, Start Num: 25
Candidate Starts for WeiHuaDA_52:
(Start: 21 @34616 has 61 MA's), (Start: 25 @34601 has 164 MA's), (38, 34529), (41, 34517), (58, 34481), (62, 34475), (66, 34454), (69, 34409), (71, 34403), (73, 34379), (82, 34340), (97, 34193), (100, 34175), (102, 34145),

Gene: Whabigail7_51 Start: 34073, Stop: 33555, Start Num: 25
Candidate Starts for Whabigail7_51:
(Start: 21 @34088 has 61 MA's), (Start: 25 @34073 has 164 MA's), (41, 33989), (58, 33953), (69, 33881), (71, 33875), (73, 33851), (74, 33848), (76, 33839), (82, 33812), (97, 33665), (100, 33647), (102, 33617),

Gene: WideWale_51 Start: 33959, Stop: 33435, Start Num: 21
Candidate Starts for WideWale_51:
(Start: 21 @33959 has 61 MA's), (Start: 25 @33944 has 164 MA's), (41, 33875), (58, 33839), (66, 33812), (69, 33767), (71, 33761), (73, 33737), (76, 33725), (82, 33698), (85, 33689), (89, 33671), (97, 33548),

Gene: Wiks_51 Start: 32558, Stop: 31995, Start Num: 21
Candidate Starts for Wiks_51:
(7, 32657), (8, 32642), (Start: 21 @32558 has 61 MA's), (Start: 25 @32543 has 164 MA's), (70, 32333), (71, 32330), (82, 32267), (85, 32258), (97, 32105), (98, 32102),

Gene: Wilbur_49 Start: 33385, Stop: 32846, Start Num: 28
Candidate Starts for Wilbur_49:
(Start: 13 @33442 has 1 MA's), (Start: 14 @33427 has 1 MA's), (Start: 28 @33385 has 142 MA's), (76, 33127), (83, 33094), (93, 33055), (104, 32887),

Gene: Wile_48 Start: 33395, Stop: 32856, Start Num: 28
Candidate Starts for Wile_48:
(Start: 13 @33452 has 1 MA's), (Start: 14 @33437 has 1 MA's), (Start: 28 @33395 has 142 MA's), (76, 33137), (83, 33104), (93, 33065), (104, 32897),

Gene: Wizard007_49 Start: 33393, Stop: 32854, Start Num: 28
Candidate Starts for Wizard007_49:
(Start: 13 @33450 has 1 MA's), (Start: 14 @33435 has 1 MA's), (Start: 28 @33393 has 142 MA's), (76, 33135), (83, 33102), (93, 33063), (104, 32895),

Gene: Wolpertinger_49 Start: 32822, Stop: 32253, Start Num: 25
Candidate Starts for Wolpertinger_49:
(Start: 25 @32822 has 164 MA's), (54, 32687), (87, 32522), (97, 32366),

Gene: Wooldri_55 Start: 33768, Stop: 33178, Start Num: 23
Candidate Starts for Wooldri_55:
(Start: 23 @33768 has 82 MA's), (Start: 28 @33762 has 142 MA's), (54, 33618), (59, 33609), (67, 33582), (76, 33498), (97, 33294), (102, 33246),

Gene: WorldCup_49 Start: 33191, Stop: 32664, Start Num: 25
Candidate Starts for WorldCup_49:
(Start: 21 @33206 has 61 MA's), (Start: 25 @33191 has 164 MA's), (48, 33092), (58, 33068), (71, 32990), (73, 32966), (82, 32927), (97, 32771),

Gene: WunderPhul_52 Start: 32541, Stop: 31993, Start Num: 25
Candidate Starts for WunderPhul_52:
(7, 32655), (8, 32640), (Start: 21 @32556 has 61 MA's), (Start: 25 @32541 has 164 MA's), (70, 32331), (71, 32328), (82, 32265), (85, 32256), (97, 32103), (98, 32100),

Gene: Xena_47 Start: 33361, Stop: 32822, Start Num: 28
Candidate Starts for Xena_47:
(Start: 13 @33418 has 1 MA's), (Start: 14 @33403 has 1 MA's), (Start: 28 @33361 has 142 MA's), (76, 33103), (83, 33070), (93, 33031), (104, 32863),

Gene: XianYue_49 Start: 33430, Stop: 32909, Start Num: 25
Candidate Starts for XianYue_49:
(Start: 21 @33445 has 61 MA's), (Start: 25 @33430 has 164 MA's), (58, 33310), (66, 33283), (69, 33238), (71, 33232), (82, 33169), (97, 33019), (100, 33001), (102, 32971),

Gene: Yecey3_51 Start: 33196, Stop: 32624, Start Num: 25
Candidate Starts for Yecey3_51:
(Start: 21 @33211 has 61 MA's), (Start: 25 @33196 has 164 MA's), (68, 33043), (70, 33001), (88, 32911), (94, 32884), (97, 32731),

Gene: YoSam321_49 Start: 33382, Stop: 32843, Start Num: 28
Candidate Starts for YoSam321_49:
(Start: 13 @33439 has 1 MA's), (Start: 14 @33424 has 1 MA's), (Start: 28 @33382 has 142 MA's), (76, 33124), (83, 33091), (93, 33052), (104, 32884),

Gene: Yogi_39 Start: 29772, Stop: 29248, Start Num: 32
Candidate Starts for Yogi_39:
(Start: 32 @29772 has 36 MA's), (54, 29667), (97, 29355), (99, 29346), (100, 29337), (102, 29307),

Gene: Yokurt_52 Start: 32543, Stop: 31995, Start Num: 25
Candidate Starts for Yokurt_52:
(7, 32657), (8, 32642), (Start: 21 @32558 has 61 MA's), (Start: 25 @32543 has 164 MA's), (70, 32333), (71, 32330), (82, 32267), (85, 32258), (97, 32105), (98, 32102),

Gene: Yoncess_39 Start: 29773, Stop: 29249, Start Num: 32
Candidate Starts for Yoncess_39:
(Start: 32 @29773 has 36 MA's), (54, 29668), (97, 29356), (99, 29347), (100, 29338), (102, 29308),

Gene: Zaka_52 Start: 32543, Stop: 31995, Start Num: 25
Candidate Starts for Zaka_52:
(7, 32657), (8, 32642), (Start: 21 @32558 has 61 MA's), (Start: 25 @32543 has 164 MA's), (70, 32333), (71, 32330), (82, 32267), (85, 32258), (97, 32105), (98, 32102),

Gene: Zarafa_50 Start: 33604, Stop: 33041, Start Num: 27
Candidate Starts for Zarafa_50:
(Start: 13 @33661 has 1 MA's), (Start: 14 @33646 has 1 MA's), (Start: 15 @33634 has 18 MA's), (Start: 27 @33604 has 31 MA's), (36, 33535), (60, 33457), (67, 33421), (76, 33337), (104, 33082),

Gene: Zetzy_52 Start: 33419, Stop: 32829, Start Num: 23
Candidate Starts for Zetzy_52:
(Start: 23 @33419 has 82 MA's), (Start: 28 @33413 has 142 MA's), (54, 33269), (59, 33260), (67, 33233), (76, 33149), (97, 32945), (102, 32897),

Gene: Zulu_53 Start: 32936, Stop: 32373, Start Num: 21
Candidate Starts for Zulu_53:
(7, 33035), (8, 33020), (Start: 21 @32936 has 61 MA's), (Start: 25 @32921 has 164 MA's), (70, 32711), (71, 32708), (82, 32645), (85, 32636), (97, 32483), (98, 32480),