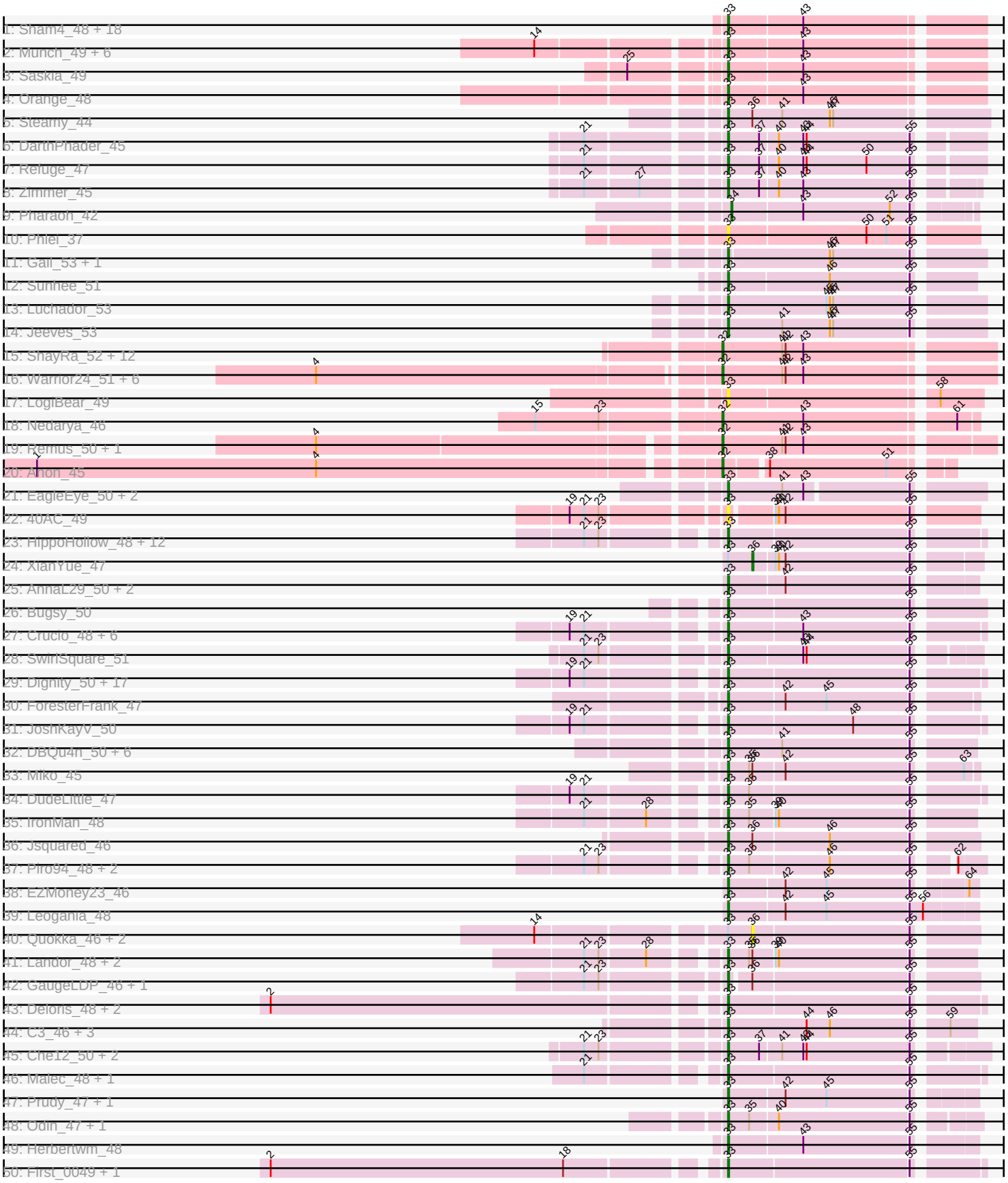
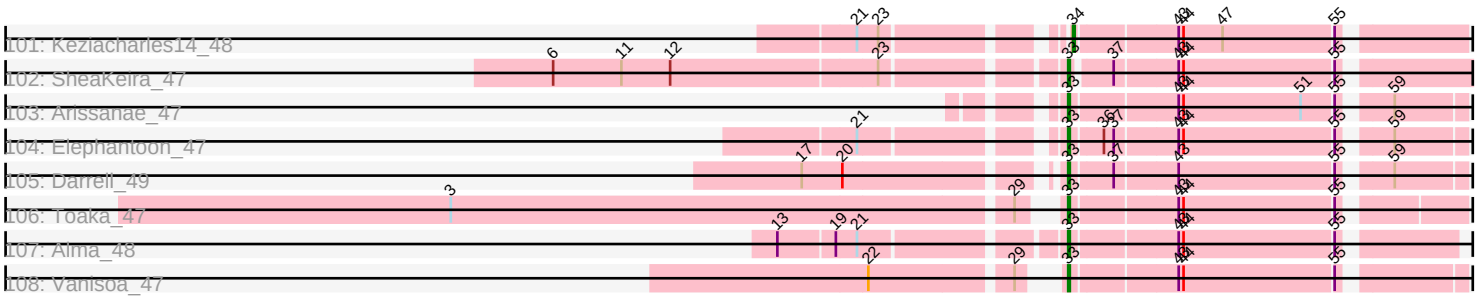
Pham 347071


1: Sham4_48 + 18
2: Munch_49 + 6
3: Saskia_49
4: Orange_48
5: Steamy_44
6: DarthPhader_45
7: Refuge_47
8: Zimmer_45
9: Pharaoh_42
10: Phiei_37
11: Gail_53 + 1
12: Sunhee_51
13: Luchador_53
14: Jeeves_53
15: ShayRa_52 + 12
16: Warrior24_51 + 6
17: LogiBear_49
18: Nedarya_46
19: Remus_50 + 1
20: Amon_45
21: EagleEye_50 + 2
22: 40AC_49
23: HippoHollow_48 + 12
24: XianYue_47
25: AnnaL29_50 + 2
26: Bugsy_50
27: Crucio_48 + 6
28: SwirlSquare_51
29: Dignity_50 + 17
30: ForesterFrank_47
31: JoshKayV_50
32: DBQu4n_50 + 6
33: Miko_45
34: DudeLittle_47
35: IronMan_48
36: Jsquared_46
37: Piro94_48 + 2
38: EZMoney23_46
39: Leogania_48
40: Quokka_46 + 2
41: Landor_48 + 2
42: GaugeLDP_46 + 1
43: Deloris_48 + 2
44: C3_46 + 3
45: Che12_50 + 2
46: Malec_48 + 1
47: Prudy_47 + 1
48: Odin_47 + 1
49: Herbertwm_48
50: First_0049 + 1

Pham 347071


51: CRB1_51
52: Journey13_42
53: Caraxes_47
54: Iwokeuplikedis_51
55: Changeling_47
56: Acolyte_44
57: Kalpine_46
58: L5_47 + 1
59: NothingSpecial_46
60: Phaded_49
61: Trooper_49
62: Anselm_49 + 2
63: Tristan_47
64: VA6_48 + 1
65: Pukovnik_47
66: Trixie_46
67: MissWhite_47
68: Serenity_48
69: TarsusIV_46
70: FatCactus_40
71: Anthony_43
72: Kinmap_45
73: Chargerpower_47
74: Malinsilva_53 + 88
75: Reiter_46 + 116
76: Xena_45 + 18
77: Stink_47 + 2
78: Noelle_47
79: Cindaradix_44
80: DirtyDunning_46 + 4
81: Skipitt_46
82: LochMonster_48
83: Stasia_46
84: Shygu2_46
85: Taquarius_47
86: Lilbunny_49 + 15
87: Isiphiwo_48 + 21
88: Koko_51 + 3
89: Tucker_50 + 1
90: Jordennis_49 + 1
91: Roksolana_51
92: Blinn1_52
93: Priamo_51
94: RyeScarlet_48 + 28
95: Celestialunch_46 + 1
96: Kloolith_48 + 2
97: BogosyJay_47 + 1
98: Bellris_47 + 4
99: LoneWolf_48
100: Yecey3_49

Pham 347071


101: Keziacharles14_48
102: SheaKeira_47
103: Anissanae_47
104: Elephantoon_47
105: Darrell_49
106: Toaka_47
107: Alma_48
108: Vanisoa_47

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 347071 Report

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

Pham number 347071 has 524 members, 26 are drafts.

Phages represented in each track:
• Track 1 : Sham4_48, Wolpertinger_47, Bachome_50, Insomnia_49, Snape_48, Mabel_48, TinyTimmy_48, Et2Brutus_47, Fibonacci_48, Petersenfast_48, Bud_48, Mulciber_48, Jabith_49, MaCh_49, Timothy_48, Kimba_48, Hutc2_48, Ebony_48, Salz_47
• Track 2 : Munch_49, Bowtie_49, Gilberta_49, Aneem_49, Flaverint_49, Lucivia_49, Joselito_49
• Track 3 : Saskia_49
• Track 4 : Orange_48
• Track 5 : Steamy_44
• Track 6 : DarthPhader_45
• Track 7 : Refuge_47
• Track 8 : Zimmer_45
• Track 9 : Pharaoh_42
• Track 10 : Phlei_37
• Track 11 : Gail_53, SororFago_51
• Track 12 : Sunhee_51
• Track 13 : Luchador_53
• Track 14 : Jeeves_53
• Track 15 : ShayRa_52, Soups_51, Nebulosus_50, Ravana_52, Anaysia_51, LastResort_50, Epsocamisio_49, ReMo_50, Looper_51, DekHockey33_51, Boohoo_51, Oofda_50, KatherineG_52
• Track 16 : Warrior24_51, Switzerland_50, Battleship_51, MinecraftSteve_51, Rosalind_49, Waits_50, JSwag_49
• Track 17 : LogiBear_49
• Track 18 : Nedarya_46
• Track 19 : Remus_50, Strosahl_50
• Track 20 : Anon_45
• Track 21 : EagleEye_50, Lucyedi_49, PainterBoy_49
• Track 22 : 40AC_49
• Track 23 : HippoHollow_48, Baehexic_47, Updawg_49, MiculUcigas_48, Centaur_49, Terrific_49, NaSiaTalie_48, Flare16_48, Equemioh13_49, Gratitude_49, Sknot_48, WideWale_49, LionsBait_48
• Track 24 : XianYue_47
• Track 25 : AnnaL29_50, RedRock_50, Loser_50
• Track 26 : Bugsy_50
• Track 27 : Crucio_48, QueenB2_47, Fameo_48, Heffalump_47, Echild_48, Benvolio_45, Turbido_49

• Track 28 : SwirlSquare_51
• Track 29 : Dignity_50, Leviathan_50, ChipMunk_50, FiringLine_48, Power_47, LilTurb_49, EvilGenius_50, SweetiePie_48, SemperFi_49, QueenBeesly_48, Whabigail7_49, Georgie2_49, Smeagan_51, AbbyPaige_50, Agape74_50, SnapTap_48, KingCyrus_50, Jerm_50
• Track 30 : ForesterFrank_47
• Track 31 : JoshKayV_50
• Track 32 : DBQu4n_50, Travvers_50, Pomar16_50, Tomathan_50, Kerberos_50, Duplo_50, StarStuff_50
• Track 33 : Miko_45
• Track 34 : DudeLittle_47
• Track 35 : IronMan_48
• Track 36 : Jsquared_46
• Track 37 : Piro94_48, Drake55_50, HarryHoudini_49
• Track 38 : EZMoney23_46
• Track 39 : Leogania_48
• Track 40 : Quokka_46, Bradman_47, MajorMajor_47
• Track 41 : Landor_48, Bactobuster_47, Jaan_48
• Track 42 : GaugeLDP_46, BabyBack_47
• Track 43 : Deloris_48, 20ES_50, BengiVuitton_49
• Track 44 : C3_46, VC3_51, AN9_51, ANI8_51
• Track 45 : Che12_50, Adzzy_50, Ph8s_50
• Track 46 : Malec_48, Larenn_47
• Track 47 : Prudy_47, DeerParkTS_46
• Track 48 : Odin_47, Superchunk_47
• Track 49 : Herbertwm_48
• Track 50 : First_0049, LadyBird_52
• Track 51 : CRB1_51
• Track 52 : Journey13_42
• Track 53 : Caraxes_47
• Track 54 : Iwokeuplikedis_51
• Track 55 : Changeling_47
• Track 56 : Acolyte_44
• Track 57 : Kalpine_46
• Track 58 : L5_47, Koduck_49
• Track 59 : NothingSpecial_46
• Track 60 : Phaded_49
• Track 61 : Trooper_49
• Track 62 : Anselm_49, Retro23_49, Dalmatian_49
• Track 63 : Tristan_47
• Track 64 : VA6_48, AN3_50
• Track 65 : Pukovnik_47
• Track 66 : Trixie_46
• Track 67 : MissWhite_47
• Track 68 : Serenity_48
• Track 69 : TarsusIV_46
• Track 70 : FatCactus_40
• Track 71 : Anthony_43
• Track 72 : Kinmap_45
• Track 73 : Chargerpower_47
• Track 74 : Malinsilva_53, OlanP_50, Pembroke_51, Aglet_52, SoYo_51, MarQuardt_51, Tiffany_51, StepMih_51, MadMarie_51, DaHudson_51, BreSam8_51, Calvinny_51, Marie_51, Marius_52, HaveUMetTed_52, GingkoMaracino_51,

Groupthink_52, LugYA_54, Misomonster_52, Daishi_50, Reba_51, Farber_51, ClownCar_51, PotatoSplit_53, JenCasNa_52, Lowa_51, Zetzy_50, JHC117_51, Bigflo_51, Hercules11_51, Microwolf_51, Taurus_52, Fernando_51, Gwennie_51, MuchMore_54, Colbster_51, Grif_51, TinyPebbles_50, PGHhamlin_53, PurpleHaze_51, LBerry_52, Kalb97_52, Sabinator_50, JeppNRM_52, LarryKay_51, Grum1_51, Ollie_51, P28Green_52, Pawn_51, AgronaGT15_50, Heliosoles_50, GtownJaz_51, Phranny_52, Vix_51, Rummer_50, Stagni_51, MoneyMay_51, KADY_51, Manu_51, HashRod_52, PhishRPhriends_49, Louie6_50, Mainiac_51, Montavir_50, Cullens_51, Phoxy_51, Wooldri_53, SoilDragon_51, Kalnoky_52, Spike509_51, Croquant_52, Sabia_51, Jobu08_50, Lilith_52, BuzzBuzz_49, Watson_51, ACFishhook_50, AugsMagnumOpus_54, Snickers_51, Phoebe_52, Grub_51, Dieselweasel_52, Beauxregard13_51, Anubis_54, Soshari_53, Gemma_50, Bxz2_47, Penny1_52, EpicPhail_52

• Track 75 : Relief_46, KekoraPapaka_47, Jaykayelowell_45, Sultana_47, Melvin_49, HamSlice_46, RockieBear_47, Blackmoor_47, Wander_47, Shaka_47, Ohfah_48, Annyong_47, Thanksgivukkah_46, Baby16_47, LappelDuVide_47, Huxley_46, Tinybot_46, Abdiel_47, Broseidon_47, Koreni_46, Polymorphads_48, Cocoaberry_47, Gadost_47, Nebs_48, Avle17_47, NotAPhaseMom_47, CentreCat_47, Nyxis_47, Lemur_47, Morrow_48, Bruiser_46, JetBlade_47, Iracema64_48, SteMason_46, Houdini22_47, Iceman_47, Junimo_46, Sparxx_48, Pumbaa_47, BubbleTrouble_46, Kingmustik0402_47, Skadoosh_48, TinaFeyge_47, Kremtemulon_47, LeoAvram_47, Florean_47, MeeZee_47, Roosevelt_46, PeterPeter_47, Nemo27_47, Spino_46, Dhanush_47, Bombshell_47, Pipcraft_45, NorthStar_46, Ruin_47, Phelipe_48, Rosa24_46, Cintron_46, Alberto7_48, BellusTerra_48, Connomayer_47, KFPoly_46, Romney_47, Camperdownii_45, Scamp_47, Druantia_47, Eros_47, LittleGuy_47, Holli_46, Citius_47, Eapen_47, Deano_46, Clarenza_46, Palestino_46, Phontbonne_47, Kyee_47, Kampy_47, Funston_46, OKaNui_47, Buckaroo_46, ICleared_47, Wilbur_47, SenorClean_47, Rocksand_47, Mazhar510_47, JoongJeon_46, Ulysses_46, Chaph_47, Mayonnaise_46, TygerBlood_47, Millski_46, Caelakin_47, Medusa_47, Phacado_47, Koan_45, Sabertooth_47, LittleB_47, Wizard007_47, Lunsford_48, Bartimeaus_47, Peaches_47, Eurydice_48, Burger_45, Happiness_46, Albee_47, TroyPia_48, Maxo_48, Flux_47, Maverick_47, Eris_46, Eagle_47, Commander_47, Lorenzo_47, TiroTheta9_47, Northrop_47, YoSam321_47

• Track 76 : Xena_45, Datway_46, Cerulean_48, BangNhom_48, Morpher26_46, Cici_46, Perplexer_46, SheldonCooper_49, Achebe_45, Badger_45, LHTSCC_49, Bumblebee11_45, AbbysRanger_46, Obama12_48, Backyardigan_45, PetiteSangsue_46, ChampagnePapi_49, Wile_46, Katalie136_46

• Track 77 : Stink_47, AvatarAhPeg_46, Miramae_46

• Track 78 : Noelle_47

• Track 79 : Cindaradix_44

• Track 80 : DirtyDunning_46, Mundrea_46, Arturo_46, Kratark_47, Phighter1804_47

• Track 81 : Skipitt_46

• Track 82 : LochMonster_48

• Track 83 : Stasia_46

• Track 84 : Shygu2_46

• Track 85 : Taquarus_47

• Track 86 : Lilbunny_49, Wiks_49, Helmet_52, Zaka_50, Yokurt_50, BlessJoy_51, Gruunaga_50, ToneTone_47, Jeffabunny_50, Artemis2UCLA_50, WunderPhul_50, Garak_52, Temprado_51, Indra_53, Hexamo_50, Rifter_51

• Track 87 : Isiphiwo_48, Dorothea_50, Chartreuse_49, DaVinci_49, DelvinSonDorr_48, SmellyB_50, SuperCallie99_49, McFly_50, BennyP_51, GreedyLawyer_50, Kipper29_50, Cookiedough_50, Newrala_50, Imbriano_51,

SuperAwesome_50, Candra_51, Gladiator_48, VohminGhazi_50, Kazan_51, EricB_50, Pmask_50, Neeharika16_49
• Track 88 : Koko_51, Hammer_51, Blue7_52, CloudWang3_50
• Track 89 : Tucker_50, Zulu_50
• Track 90 : Jordennis_49, Polyphemus_51
• Track 91 : Roksolana_51
• Track 92 : Blinn1_52
• Track 93 : Priamo_51
• Track 94 : RyeScarlet_48, EmyBug_47, PackMan_47, Sachima_48, Fayely_48, Hanray_48, Eidsmoe_48, Holex_48, Myxus_48, Ugenie5_45, Conquerage_48, Phonnegut_48, Pioneer_48, Phaeder_48, ExplosioNervosa_48, HortumSL17_48, Jiawan_48, Tubs_48, Ayanochan_47, Spouty_48, Qobbit_48, Lilleskat_48, Priya_48, Beemo_48, Onglai_47, EdogawaKiddo_48, Scherzo_48, Aliter_48, Catalina_49
• Track 95 : Celestialunch_46, MegTheThird_47
• Track 96 : Klodlith_48, Charm_47, DreamTeam1_47
• Track 97 : BogosyJay_47, Maminiaina_47
• Track 98 : Bellris_47, WorldCup_46, Minispark_46, CogOmlette_46, Rahalelujah_47
• Track 99 : LoneWolf_48
• Track 100 : Yecey3_49
• Track 101 : Keziacharles14_48
• Track 102 : SheaKeira_47
• Track 103 : Arissanae_47
• Track 104 : Elephantoon_47
• Track 105 : Darrell_49
• Track 106 : Toaka_47
• Track 107 : Alma_48
• Track 108 : Vanisoa_47

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

The start number called the most often in the published annotations is 33, it was called in 468 of the 498 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• 20ES_50, 40AC_49, ACFishhook_50, AN3_50, AN9_51, ANI8_51, AbbyPaige_50, AbbysRanger_46, Abdiel_47, Achebe_45, Acolyte_44, Adzzy_50, Agape74_50, Aglet_52, AgronaGT15_50, Albee_47, Alberto7_48, Aliter_48, Alma_48, Aneem_49, AnnaL29_50, Annyong_47, Anselm_49, Anubis_54, Arissanae_47, Artemis2UCLA_50, Arturo_46, AugsMagnumOpus_54, AvatarAhPeg_46, Avle17_47, Ayanochan_47, Baby16_47, BabyBack_47, Bachome_50, Backyardigan_45, Bactobuster_47, Badger_45, Baehexic_47, BangNhom_48, Bartimeaus_47, Beauxregard13_51, Beemo_48, Bellris_47, BellusTerra_48, BengiVuitton_49, BennyP_51, Benvolio_45, Bigflo_51, Blackmoor_47, BlessJoy_51, Blinn1_52, Blue7_52, BogosyJay_47, Bombshell_47, Bowtie_49, BreSam8_51, Broseidon_47, Bruiser_46, BubbleTrouble_46, Buckaroo_46, Bud_48, Bugsy_50, Bumblebee11_45, Burger_45, BuzzBuzz_49, Bxz2_47, C3_46, CRB1_51, Caelakin_47, Calvinny_51, Camperdownii_45, Candra_51, Catalina_49, Celestialunch_46, Centaur_49, CentreCat_47, Cerulean_48, ChampagnePapi_49, Changeling_47, Chaph_47, Chargerpower_47, Charm_47, Chartreuse_49, Che12_50, ChipMunk_50, Cici_46, Cindaradix_44, Cintron_46, Citius_47, Clarenza_46, CloudWang3_50, ClownCar_51,

Cocoaberry_47, CogOmlette_46, Colbster_51, Commander_47, Connomayer_47, Conquerage_48, Cookiedough_50, Croquant_52, Crucio_48, Cullens_51, DBQu4n_50, DaHudson_51, DaVinci_49, Daishi_50, Dalmatian_49, Darrell_49, DarthPhader_45, Datway_46, Deano_46, DeerParkTS_46, Deloris_48, DelvinSonDorr_48, Dhanush_47, Dieselweasel_52, Dignity_50, DirtyDunning_46, Dorothea_50, Drake55_50, DreamTeam1_47, Druantia_47, DudeLittle_47, Duplo_50, EZMoney23_46, EagleEye_50, Eagle_47, Eapen_47, Ebony_48, Echild_48, EdogawaKiddo_48, Eidsmoe_48, Elephantoon_47, EmyBug_47, EpicPhail_52, Equemioh13_49, EricB_50, Eris_46, Eros_47, Et2Brutus_47, Eurydice_48, EvilGenius_50, ExplosioNervosa_48, Fameo_48, Farber_51, Fayely_48, Fernando_51, Fibonacci_48, FiringLine_48, First_0049, Flare16_48, Flaverint_49, Florean_47, Flux_47, ForesterFrank_47, Funston_46, Gadost_47, Gail_53, Garak_52, GaugeLDP_46, Gemma_50, Georgie2_49, Gilberta_49, GingkoMaracino_51, Gladiator_48, Gratitude_49, GreedyLawyer_50, Grif_51, Groupthink_52, Grub_51, Grum1_51, Gruunaga_50, GtownJaz_51, Gwennie_51, HamSlice_46, Hammer_51, Hanray_48, Happiness_46, HarryHoudini_49, HashRod_52, HaveUMetTed_52, Heffalump_47, Heliosoles_50, Helmet_52, Herbertwm_48, Hercules11_51, Hexamo_50, HippoHollow_48, Holex_48, Holli_46, HortumSL17_48, Houdini22_47, Hutc2_48, Huxley_46, ICleared_47, Iceman_47, Imbriano_51, Indra_53, Insomnia_49, Iracema64_48, IronMan_48, Isiphiwo_48, Iwokeuplikedis_51, JHC117_51, Jaan_48, Jabith_49, Jaykayelowell_45, Jeeves_53, Jeffabunny_50, JenCasNa_52, JeppNRM_52, Jerm_50, JetBlade_47, Jiawan_48, Jobu08_50, JoongJeon_46, Jordennis_49, Joselito_49, JoshKayV_50, Journey13_42, Jsquared_46, Junimo_46, KADY_51, KFPoly_46, Kalb97_52, Kalnoky_52, Kalpine_46, Kampy_47, Katalie136_46, Kazan_51, KekoraPapaka_47, Kerberos_50, Kimba_48, KingCyrus_50, Kingmustik0402_47, Kinmap_45, Kipper29_50, Klodlith_48, Koan_45, Koduck_49, Koko_51, Koreni_46, Kratark_47, Kremtemulon_47, Kyee_47, L5_47, LBerry_52, LHTSCC_49, LadyBird_52, Landor_48, LappelDuVide_47, Larenn_47, LarryKay_51, Lemur_47, LeoAvram_47, Leogania_48, Leviathan_50, LilTurb_49, Lilbunny_49, Lilith_52, Lilleskat_48, LionsBait_48, LittleB_47, LittleGuy_47, LochMonster_48, LogiBear_49, LoneWolf_48, Lorenzo_47, Loser_50, Louie6_50, Lowa_51, Luchador_53, Lucivia_49, Lucyedi_49, LugYA_54, Lunsford_48, MaCh_49, Mabel_48, MadMarie_51, Mainiac_51, Malec_48, Malinsilva_53, Maminiaina_47, Manu_51, MarQuardt_51, Marie_51, Marius_52, Maverick_47, Maxo_48, Mayonnaise_46, Mazhar510_47, McFly_50, Medusa_47, MeeZee_47, MegTheThird_47, Melvin_49, Microwolf_51, MiculUcigas_48, Miko_45, Millski_46, Minispark_46, Miramae_46, Misomonster_52, MissWhite_47, MoneyMay_51, Montavir_50, Morpher26_46, Morrow_48, MuchMore_54, Mulciber_48, Munch_49, Mundrea_46, Myxus_48, NaSiaTalie_48, Nebs_48, Neeharika16_49, Nemo27_47, Newrala_50, Noelle_47, NorthStar_46, Northrop_47, NotAPhaseMom_47, NothingSpecial_46, Nyxis_47, OKaNui_47, Obama12_48, Odin_47, Ohfah_48, OlanP_50, Ollie_51, Onglai_47, Orange_48, P28Green_52, PGHhamlin_53, PackMan_47, PainterBoy_49, Palestino_46, Pawn_51, Peaches_47, Pembroke_51, Penny1_52, Perplexer_46, PeterPeter_47, Petersenfast_48, PetiteSangsue_46, Ph8s_50, Phacado_47, Phaded_49, Phaeder_48, Phelipe_48, Phighter1804_47, PhishRPhriends_49, Phlei_37, Phoebe_52, Phonnegut_48, Phontbonne_47, Phoxy_51, Phranny_52, Pioneer_48, Pipcraft_45, Piro94_48, Pmask_50, Polymorphads_48, Polyphemus_51, Pomar16_50, PotatoSplit_53, Power_47, Priamo_51, Priya_48, Prudy_47, Pukovnik_47, Pumbaa_47, PurpleHaze_51, Qobbit_48, QueenB2_47, QueenBeesly_48, Rahalelujah_47, Reba_51, RedRock_50, Refuge_47, Relief_46, Retro23_49, Rifter_51, RockieBear_47, Rocksand_47, Roksolana_51, Romney_47, Roosevelt_46, Rosa24_46, Ruin_47, Rummer_50, RyeScarlet_48, Sabertooth_47,

Sabia_51, Sabinator_50, Sachima_48, Salz_47, Saskia_49, Scamp_47, Scherzo_48, SemperFi_49, SenorClean_47, Serenity_48, Shaka_47, Sham4_48, SheaKeira_47, SheldonCooper_49, Shygu2_46, Skadoosh_48, Skipitt_46, Sknot_48, Smeagan_51, SmellyB_50, SnapTap_48, Snape_48, Snickers_51, SoYo_51, SoilDragon_51, SororFago_51, Soshari_53, Sparxx_48, Spike509_51, Spino_46, Spouty_48, Stagni_51, StarStuff_50, Stasia_46, SteMason_46, Steamy_44, StepMih_51, Stink_47, Sultana_47, Sunhee_51, SuperAwesome_50, SuperCallie99_49, Superchunk_47, SweetiePie_48, SwirlSquare_51, Taquarus_47, TarsusIV_46, Taurus_52, Temprado_51, Terrific_49, Thanksgivukkah_46, Tiffany_51, Timothy_48, TinaFeyge_47, TinyPebbles_50, TinyTimmy_48, Tinybot_46, TiroTheta9_47, Toaka_47, Tomathan_50, ToneTone_47, Travvers_50, Tristan_47, Trixie_46, Trooper_49, TroyPia_48, Tubs_48, Tucker_50, Turbido_49, TygerBlood_47, Ugenie5_45, Ulysses_46, Updawg_49, VA6_48, VC3_51, Vanisoa_47, Vix_51, VohminGhazi_50, Wander_47, Watson_51, Whabigail7_49, WideWale_49, Wiks_49, Wilbur_47, Wile_46, Wizard007_47, Wolpertinger_47, Wooldri_53, WorldCup_46, WunderPhul_50, Xena_45, Yecey3_49, YoSam321_47, Yokurt_50, Zaka_50, Zetzy_50, Zimmer_45, Zulu_50,

Genes that have the "Most Annotated" start but do not call it:
• Bradman_47, Caraxes_47, MajorMajor_47, Quokka_46, XianYue_47,

Genes that do not have the "Most Annotated" start:
• Anaysia_51, Anon_45, Anthony_43, Battleship_51, Boohoo_51, DekHockey33_51, Epsocamisio_49, FatCactus_40, JSwag_49, KatherineG_52, Keziacharles14_48, LastResort_50, Looper_51, MinecraftSteve_51, Nebulosus_50, Nedarya_46, Oofda_50, Pharaoh_42, Ravana_52, ReMo_50, Remus_50, Rosalind_49, ShayRa_52, Soups_51, Strosahl_50, Switzerland_50, Waits_50, Warrior24_51,

Summary by start number:

Start 32:
• Found in 24 of 524 (4.6%) of genes in pham
• Manual Annotations of this start: 24 of 498
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Anaysia_51 (A15), Anon_45 (A15), Battleship_51 (A15), Boohoo_51 (A15), DekHockey33_51 (A15), Epsocamisio_49 (A15), JSwag_49 (A15), KatherineG_52 (A15), LastResort_50 (A15), Looper_51 (A15), MinecraftSteve_51 (A15), Nebulosus_50 (A15), Nedarya_46 (A15), Oofda_50 (A15), Ravana_52 (A15), ReMo_50 (A15), Remus_50 (A15), Rosalind_49 (A15), ShayRa_52 (A15), Soups_51 (A15), Strosahl_50 (A15), Switzerland_50 (A15), Waits_50 (A15), Warrior24_51 (A15),

Start 33:
• Found in 496 of 524 (94.7%) of genes in pham
• Manual Annotations of this start: 468 of 498
• Called 99.0% of time when present
• Phage (with cluster) where this start called: 20ES_50 (A2), 40AC_49 (A17), ACFishhook_50 (A3), AN3_50 (A2), AN9_51 (A2), ANI8_51 (A2), AbbyPaige_50 (A2), AbbysRanger_46 (A4), Abdiel_47 (A4), Achebe_45 (A4), Acolyte_44 (A2), Adzzy_50 (A2), Agape74_50 (A2), Aglet_52 (A3), AgronaGT15_50 (A3), Albee_47 (A4), Alberto7_48 (A4), Aliter_48 (A9), Alma_48 (A9), Aneem_49 (A11), AnnaL29_50 (A2), Annyong_47 (A4), Anselm_49 (A2), Anubis_54 (A3), Arissanae_47 (A9), Artemis2UCLA_50 (A6), Arturo_46 (A4), AugsMagnumOpus_54 (A3),

AvatarAhPeg_46 (A4), Avle17_47 (A4), Ayanochan_47 (A9), Baby16_47 (A4), BabyBack_47 (A2), Bachome_50 (A11), Backyardigan_45 (A4), Bactobuster_47 (A2), Badger_45 (A4), Baehexic_47 (A2), BangNhom_48 (A4), Bartimeaus_47 (A4), Beauxregard13_51 (A3), Beemo_48 (A9), Bellris_47 (A9), BellusTerra_48 (A4), BengiVuitton_49 (A2), BennyP_51 (A6), Benvolio_45 (A2), Bigflo_51 (A3), Blackmoor_47 (A4), BlessJoy_51 (A6), Blinn1_52 (A6), Blue7_52 (A6), BogosyJay_47 (A9), Bombshell_47 (A4), Bowtie_49 (A11), BreSam8_51 (A3), Broseidon_47 (A4), Bruiser_46 (A4), BubbleTrouble_46 (A4), Buckaroo_46 (A4), Bud_48 (A11), Bugsy_50 (A2), Bumblebee11_45 (A4), Burger_45 (A4), BuzzBuzz_49 (A3), Bxz2_47 (A3), C3_46 (A2), CRB1_51 (A2), Caelakin_47 (A4), Calvinny_51 (A3), Camperdownii_45 (A4), Candra_51 (A6), Catalina_49 (A9), Celestialunch_46 (A9), Centaur_49 (A2), CentreCat_47 (A4), Cerulean_48 (A4), ChampagnePapi_49 (A4), Changeling_47 (A2), Chaph_47 (A4), Chargerpower_47 (A22), Charm_47 (A9), Chartreuse_49 (A6), Che12_50 (A2), ChipMunk_50 (A2), Cici_46 (A4), Cindaradix_44 (A4), Cintron_46 (A4), Citius_47 (A4), Clarenza_46 (A4), CloudWang3_50 (A6), ClownCar_51 (A3), Cocoaberry_47 (A4), CogOmlette_46 (A9), Colbster_51 (A3), Commander_47 (A4), Connomayer_47 (A4), Conquerage_48 (A9), Cookiedough_50 (A6), Croquant_52 (A3), Crucio_48 (A2), Cullens_51 (A3), DBQu4n_50 (A2), DaHudson_51 (A3), DaVinci_49 (A6), Daishi_50 (A3), Dalmatian_49 (A2), Darrell_49 (A9), DarthPhader_45 (A12), Datway_46 (A4), Deano_46 (A4), DeerParkTS_46 (A2), Deloris_48 (A2), DelvinSonDorr_48 (A6), Dhanush_47 (A4), Dieselweasel_52 (A3), Dignity_50 (A2), DirtyDunning_46 (A4), Dorothea_50 (A6), Drake55_50 (A2), DreamTeam1_47 (A9), Druantia_47 (A4), DudeLittle_47 (A2), Duplo_50 (A2), EZMoney23_46 (A2), EagleEye_50 (A16), Eagle_47 (A4), Eapen_47 (A4), Ebony_48 (A11), Echild_48 (A2), EdogawaKiddo_48 (A9), Eidsmoe_48 (A9), Elephantoon_47 (A9), EmyBug_47 (A9), EpicPhail_52 (A3), Equemioh13_49 (A2), EricB_50 (A6), Eris_46 (A4), Eros_47 (A4), Et2Brutus_47 (A11), Eurydice_48 (A4), EvilGenius_50 (A2), ExplosioNervosa_48 (A9), Fameo_48 (A2), Farber_51 (A3), Fayely_48 (A9), Fernando_51 (A3), Fibonacci_48 (A11), FiringLine_48 (A2), First_0049 (A2), Flare16_48 (A2), Flaverint_49 (A11), Florean_47 (A4), Flux_47 (A4), ForesterFrank_47 (A2), Funston_46 (A4), Gadost_47 (A4), Gail_53 (A14), Garak_52 (A6), GaugeLDP_46 (A2), Gemma_50 (A3), Georgie2_49 (A2), Gilberta_49 (A11), GingkoMaracino_51 (A3), Gladiator_48 (A6), Gratitude_49 (A2), GreedyLawyer_50 (A6), Grif_51 (A3), Groupthink_52 (A3), Grub_51 (A3), Grum1_51 (A3), Gruunaga_50 (A6), GtownJaz_51 (A3), Gwennie_51 (A3), HamSlice_46 (A4), Hammer_51 (A6), Hanray_48 (A9), Happiness_46 (A4), HarryHoudini_49 (A2), HashRod_52 (A3), HaveUMetTed_52 (A3), Heffalump_47 (A2), Heliosoles_50 (A3), Helmet_52 (A6), Herbertwm_48 (A2), Hercules11_51 (A3), Hexamo_50 (A6), HippoHollow_48 (A2), Holex_48 (A9), Holli_46 (A4), HortumSL17_48 (A9), Houdini22_47 (A4), Hutc2_48 (A11), Huxley_46 (A4), ICleared_47 (A4), Iceman_47 (A4), Imbriano_51 (A6), Indra_53 (A6), Insomnia_49 (A11), Iracema64_48 (A4), IronMan_48 (A2), Isiphiwo_48 (A6), Iwokeuplikedis_51 (A2), JHC117_51 (A3), Jaan_48 (A2), Jabith_49 (A11), Jaykayelowell_45 (A4), Jeeves_53 (A14), Jeffabunny_50 (A6), JenCasNa_52 (A3), JeppNRM_52 (A3), Jerm_50 (A2), JetBlade_47 (A4), Jiawan_48 (A9), Jobu08_50 (A3), JoongJeon_46 (A4), Jordennis_49 (A6), Joselito_49 (A11), JoshKayV_50 (A2), Journey13_42 (A2), Jsquared_46 (A2), Junimo_46 (A4), KADY_51 (A3), KFPoly_46 (A4), Kalb97_52 (A3), Kalnoky_52 (A3), Kalpine_46 (A2), Kampy_47 (A4), Katalie136_46 (A4), Kazan_51 (A6), KekoraPapaka_47 (A4), Kerberos_50 (A2), Kimba_48 (A11), KingCyrus_50 (A2), Kingmustik0402_47 (A4), Kinmap_45 (A21), Kipper29_50 (A6), Klodlith_48 (A9), Koan_45 (A4), Koduck_49 (A2), Koko_51 (A6), Koreni_46 (A4), Kratark_47 (A4), Kremtemulon_47 (A4), Kyee_47 (A4), L5_47 (A2), LBerry_52 (A3), LHTSCC_49 (A4), LadyBird_52 (A2), Landor_48 (A2), LappelDuVide_47 (A4), Larenn_47 (A2), LarryKay_51 (A3),

Lemur_47 (A4), LeoAvram_47 (A4), Leogania_48 (A2), Leviathan_50 (A2), LilTurb_49 (A2), Lilbunny_49 (A6), Lilith_52 (A3), Lilleskat_48 (A9), LionsBait_48 (A2), LittleB_47 (A4), LittleGuy_47 (A4), LochMonster_48 (A4), LogiBear_49 (A15), LoneWolf_48 (A9), Lorenzo_47 (A4), Loser_50 (A2), Louie6_50 (A3), Lowa_51 (A3), Luchador_53 (A14), Lucivia_49 (A11), Lucyedi_49 (A16), LugYA_54 (A3), Lunsford_48 (A4), MaCh_49 (A11), Mabel_48 (A11), MadMarie_51 (A3), Mainiac_51 (A3), Malec_48 (A2), Malinsilva_53 (A3), Maminiaina_47 (A9), Manu_51 (A3), MarQuardt_51 (A3), Marie_51 (A3), Marius_52 (A3), Maverick_47 (A4), Maxo_48 (A4), Mayonnaise_46 (A4), Mazhar510_47 (A4), McFly_50 (A6), Medusa_47 (A4), MeeZee_47 (A4), MegTheThird_47 (A9), Melvin_49 (A4), Microwolf_51 (A3), MiculUcigas_48 (A2), Miko_45 (A2), Millski_46 (A4), Minispark_46 (A9), Miramae_46 (A4), Misomonster_52 (A3), MissWhite_47 (A2), MoneyMay_51 (A3), Montavir_50 (A3), Morpher26_46 (A4), Morrow_48 (A4), MuchMore_54 (A3), Mulciber_48 (A11), Munch_49 (A11), Mundrea_46 (A4), Myxus_48 (A9), NaSiaTalie_48 (A2), Nebs_48 (A4), Neeharika16_49 (A6), Nemo27_47 (A4), Newrala_50 (A6), Noelle_47 (A4), NorthStar_46 (A4), Northrop_47 (A4), NotAPhaseMom_47 (A4), NothingSpecial_46 (A2), Nyxis_47 (A4), OKaNui_47 (A4), Obama12_48 (A4), Odin_47 (A2), Ohfah_48 (A4), OlanP_50 (A3), Ollie_51 (A3), Onglai_47 (A9), Orange_48 (A11), P28Green_52 (A3), PGHhamlin_53 (A3), PackMan_47 (A9), PainterBoy_49 (A16), Palestino_46 (A4), Pawn_51 (A3), Peaches_47 (A4), Pembroke_51 (A3), Penny1_52 (A3), Perplexer_46 (A4), PeterPeter_47 (A4), Petersenfast_48 (A11), PetiteSangsue_46 (A4), Ph8s_50 (A2), Phacado_47 (A4), Phaded_49 (A2), Phaeder_48 (A9), Phelipe_48 (A4), Phighter1804_47 (A4), PhishRPhriends_49 (A3), Phlei_37 (A13), Phoebe_52 (A3), Phonnegut_48 (A9), Phontbonne_47 (A4), Phoxy_51 (A3), Phranny_52 (A3), Pioneer_48 (A9), Pipcraft_45 (A4), Piro94_48 (A2), Pmask_50 (A6), Polymorphads_48 (A4), Polyphemus_51 (A6), Pomar16_50 (A2), PotatoSplit_53 (A3), Power_47 (A2), Priamo_51 (A6), Priya_48 (A9), Prudy_47 (A2), Pukovnik_47 (A2), Pumbaa_47 (A4), PurpleHaze_51 (A3), Qobbit_48 (A9), QueenB2_47 (A2), QueenBeesly_48 (A2), Rahalelujah_47 (A9), Reba_51 (A3), RedRock_50 (A2), Refuge_47 (A12), Relief_46 (A4), Retro23_49 (A2), Rifter_51 (A6), RockieBear_47 (A4), Rocksand_47 (A4), Roksolana_51 (A6), Romney_47 (A4), Roosevelt_46 (A4), Rosa24_46 (A4), Ruin_47 (A4), Rummer_50 (A3), RyeScarlet_48 (A9), Sabertooth_47 (A4), Sabia_51 (A3), Sabinator_50 (A3), Sachima_48 (A9), Salz_47 (A11), Saskia_49 (A11), Scamp_47 (A4), Scherzo_48 (A9), SemperFi_49 (A2), SenorClean_47 (A4), Serenity_48 (A2), Shaka_47 (A4), Sham4_48 (A11), SheaKeira_47 (A9), SheldonCooper_49 (A4), Shygu2_46 (A4), Skadoosh_48 (A4), Skipitt_46 (A4), Sknot_48 (A2), Smeagan_51 (A2), SmellyB_50 (A6), SnapTap_48 (A2), Snape_48 (A11), Snickers_51 (A3), SoYo_51 (A3), SoilDragon_51 (A3), SororFago_51 (A14), Soshari_53 (A3), Sparxx_48 (A4), Spike509_51 (A3), Spino_46 (A4), Spouty_48 (A9), Stagni_51 (A3), StarStuff_50 (A2), Stasia_46 (A4), SteMason_46 (A4), Steamy_44 (A12), StepMih_51 (A3), Stink_47 (A4), Sultana_47 (A4), Sunhee_51 (A14), SuperAwesome_50 (A6), SuperCallie99_49 (A6), Superchunk_47 (A2), SweetiePie_48 (A2), SwirlSquare_51 (A2), Taquarus_47 (A4), TarsusIV_46 (A2), Taurus_52 (A3), Temprado_51 (A6), Terrific_49 (A2), Thanksgivukkah_46 (A4), Tiffany_51 (A3), Timothy_48 (A11), TinaFeyge_47 (A4), TinyPebbles_50 (A3), TinyTimmy_48 (A11), Tinybot_46 (A4), TiroTheta9_47 (A4), Toaka_47 (A9), Tomathan_50 (A2), ToneTone_47 (A6), Travvers_50 (A2), Tristan_47 (A2), Trixie_46 (A2), Trooper_49 (A2), TroyPia_48 (A4), Tubs_48 (A9), Tucker_50 (A6), Turbido_49 (A2), TygerBlood_47 (A4), Ugenie5_45 (A9), Ulysses_46 (A4), Updawg_49 (A2), VA6_48 (A2), VC3_51 (A2), Vanisoa_47 (A9), Vix_51 (A3), VohminGhazi_50 (A6), Wander_47 (A4), Watson_51 (A3), Whabigail7_49 (A2), WideWale_49 (A2), Wiks_49 (A6), Wilbur_47 (A4), Wile_46 (A4), Wizard007_47 (A4), Wolpertinger_47 (A11), Wooldri_53 (A3), WorldCup_46 (A9), WunderPhul_50 (A6),

Xena_45 (A4), Yecey3_49 (A9), YoSam321_47 (A4), Yokurt_50 (A6), Zaka_50 (A6), Zetzy_50 (A3), Zimmer_45 (A12), Zulu_50 (A6),

Start 34:
• Found in 4 of 524 (0.8%) of genes in pham
• Manual Annotations of this start: 4 of 498
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Anthony_43 (A20), FatCactus_40 (A20), Keziacharles14_48 (A9), Pharaoh_42 (A12),

Start 35:
• Found in 46 of 524 (8.8%) of genes in pham
• Manual Annotations of this start: 1 of 498
• Called 2.2% of time when present
• Phage (with cluster) where this start called: Caraxes_47 (A2),

Start 36:
• Found in 21 of 524 (4.0%) of genes in pham
• Manual Annotations of this start: 1 of 498
• Called 19.0% of time when present
• Phage (with cluster) where this start called: Bradman_47 (A2), MajorMajor_47 (A2), Quokka_46 (A2), XianYue_47 (A2),

Summary by clusters:

There are 15 clusters represented in this pham: A15, A14, A17, A16, A11, A13, A12, A22, A21, A20, A3, A2, A4, A6, A9,

Info for manual annotations of cluster A11:
•Start number 33 was manually annotated 28 times for cluster A11.

Info for manual annotations of cluster A12:
•Start number 33 was manually annotated 4 times for cluster A12.
•Start number 34 was manually annotated 1 time for cluster A12.

Info for manual annotations of cluster A14:
•Start number 33 was manually annotated 5 times for cluster A14.

Info for manual annotations of cluster A15:
•Start number 32 was manually annotated 24 times for cluster A15.

Info for manual annotations of cluster A16:
•Start number 33 was manually annotated 3 times for cluster A16.

Info for manual annotations of cluster A2:
•Start number 33 was manually annotated 103 times for cluster A2.
•Start number 35 was manually annotated 1 time for cluster A2.
•Start number 36 was manually annotated 1 time for cluster A2.

Info for manual annotations of cluster A20:
•Start number 34 was manually annotated 2 times for cluster A20.

Info for manual annotations of cluster A21:
•Start number 33 was manually annotated 1 time for cluster A21.

Info for manual annotations of cluster A22:
•Start number 33 was manually annotated 1 time for cluster A22.

Info for manual annotations of cluster A3:
•Start number 33 was manually annotated 87 times for cluster A3.

Info for manual annotations of cluster A4:
•Start number 33 was manually annotated 144 times for cluster A4.

Info for manual annotations of cluster A6:
•Start number 33 was manually annotated 47 times for cluster A6.

Info for manual annotations of cluster A9:
•Start number 33 was manually annotated 45 times for cluster A9.
•Start number 34 was manually annotated 1 time for cluster A9.

Gene Information:

Gene: 20ES_50 Start: 32641, Stop: 32432, Start Num: 33
Candidate Starts for 20ES_50:
(2, 33025), (Start: 33 @32641 has 468 MA's), (55, 32485),

Gene: 40AC_49 Start: 33650, Stop: 33450, Start Num: 33
Candidate Starts for 40AC_49:
(19, 33770), (21, 33758), (23, 33746), (Start: 33 @33650 has 468 MA's), (39, 33617), (40, 33614), (42, 33608), (55, 33500),

Gene: ACFishhook_50 Start: 32461, Stop: 32273, Start Num: 33
Candidate Starts for ACFishhook_50:
(Start: 33 @32461 has 468 MA's), (39, 32425), (49, 32347),

Gene: AN3_50 Start: 33012, Stop: 32803, Start Num: 33
Candidate Starts for AN3_50:
(2, 33396), (18, 33132), (Start: 33 @33012 has 468 MA's), (55, 32856),

Gene: AN9_51 Start: 32552, Stop: 32346, Start Num: 33
Candidate Starts for AN9_51:
(Start: 33 @32552 has 468 MA's), (44, 32483), (46, 32462), (55, 32393), (59, 32369),

Gene: ANI8_51 Start: 32552, Stop: 32346, Start Num: 33
Candidate Starts for ANI8_51:
(Start: 33 @32552 has 468 MA's), (44, 32483), (46, 32462), (55, 32393), (59, 32369),

Gene: AbbyPaige_50 Start: 32822, Stop: 32613, Start Num: 33
Candidate Starts for AbbyPaige_50:
(19, 32936), (21, 32924), (Start: 33 @32822 has 468 MA's), (55, 32666),

Gene: AbbysRanger_46 Start: 32043, Stop: 31867, Start Num: 33
Candidate Starts for AbbysRanger_46:
(Start: 33 @32043 has 468 MA's), (46, 31956), (52, 31902), (53, 31890),

Gene: Abdiel_47 Start: 32054, Stop: 31881, Start Num: 33
Candidate Starts for Abdiel_47:
(Start: 33 @32054 has 468 MA's), (37, 32033), (46, 31970), (52, 31916), (53, 31904),

Gene: Achebe_45 Start: 32026, Stop: 31850, Start Num: 33
Candidate Starts for Achebe_45:
(Start: 33 @32026 has 468 MA's), (46, 31939), (52, 31885), (53, 31873),

Gene: Acolyte_44 Start: 31789, Stop: 31586, Start Num: 33
Candidate Starts for Acolyte_44:
(21, 31891), (23, 31879), (Start: 33 @31789 has 468 MA's), (Start: 35 @31771 has 1 MA's), (Start: 36 @31768 has 1 MA's), (55, 31633),

Gene: Adzzy_50 Start: 31273, Stop: 31064, Start Num: 33
Candidate Starts for Adzzy_50:
(21, 31381), (23, 31369), (Start: 33 @31273 has 468 MA's), (37, 31246), (41, 31228), (43, 31210), (44, 31207), (55, 31117),

Gene: Agape74_50 Start: 32807, Stop: 32598, Start Num: 33
Candidate Starts for Agape74_50:
(19, 32921), (21, 32909), (Start: 33 @32807 has 468 MA's), (55, 32651),

Gene: Aglet_52 Start: 32490, Stop: 32302, Start Num: 33
Candidate Starts for Aglet_52:
(Start: 33 @32490 has 468 MA's), (39, 32454), (49, 32376),

Gene: AgronaGT15_50 Start: 32341, Stop: 32153, Start Num: 33
Candidate Starts for AgronaGT15_50:
(Start: 33 @32341 has 468 MA's), (39, 32305), (49, 32227),

Gene: Albee_47 Start: 32053, Stop: 31880, Start Num: 33
Candidate Starts for Albee_47:
(Start: 33 @32053 has 468 MA's), (37, 32032), (46, 31969), (52, 31915), (53, 31903),

Gene: Alberto7_48 Start: 32390, Stop: 32217, Start Num: 33
Candidate Starts for Alberto7_48:
(Start: 33 @32390 has 468 MA's), (37, 32369), (46, 32306), (52, 32252), (53, 32240),

Gene: Aliter_48 Start: 32246, Stop: 32034, Start Num: 33
Candidate Starts for Aliter_48:
(9, 32504), (10, 32498), (19, 32366), (21, 32354), (Start: 33 @32246 has 468 MA's), (43, 32189), (44, 32186), (55, 32096),

Gene: Alma_48 Start: 32372, Stop: 32157, Start Num: 33
Candidate Starts for Alma_48:
(13, 32525), (19, 32492), (21, 32480), (Start: 33 @32372 has 468 MA's), (43, 32312), (44, 32309), (55, 32219),

Gene: Anaysia_51 Start: 31080, Stop: 30850, Start Num: 32

Candidate Starts for Anaysia_51:
(Start: 32 @31080 has 24 MA's), (41, 31026), (42, 31023), (43, 31008),

Gene: Aneem_49 Start: 31910, Stop: 31698, Start Num: 33
Candidate Starts for Aneem_49:
(14, 32057), (Start: 33 @31910 has 468 MA's), (43, 31847),

Gene: AnnaL29_50 Start: 33346, Stop: 33143, Start Num: 33
Candidate Starts for AnnaL29_50:
(Start: 33 @33346 has 468 MA's), (42, 33298), (55, 33190),

Gene: Annyong_47 Start: 32098, Stop: 31925, Start Num: 33
Candidate Starts for Annyong_47:
(Start: 33 @32098 has 468 MA's), (37, 32077), (46, 32014), (52, 31960), (53, 31948),

Gene: Anon_45 Start: 29822, Stop: 29640, Start Num: 32
Candidate Starts for Anon_45:
(1, 30416), (4, 30164), (Start: 32 @29822 has 24 MA's), (38, 29789), (51, 29684),

Gene: Anselm_49 Start: 32738, Stop: 32529, Start Num: 33
Candidate Starts for Anselm_49:
(19, 32852), (21, 32840), (Start: 33 @32738 has 468 MA's), (55, 32582),

Gene: Anthony_43 Start: 29967, Stop: 29788, Start Num: 34
Candidate Starts for Anthony_43:
(Start: 34 @29967 has 4 MA's), (43, 29910), (53, 29823), (54, 29820),

Gene: Anubis_54 Start: 32376, Stop: 32188, Start Num: 33
Candidate Starts for Anubis_54:
(Start: 33 @32376 has 468 MA's), (39, 32340), (49, 32262),

Gene: Arissanae_47 Start: 32905, Stop: 32687, Start Num: 33
Candidate Starts for Arissanae_47:
(Start: 33 @32905 has 468 MA's), (43, 32845), (44, 32842), (51, 32770), (55, 32752), (59, 32728),

Gene: Artemis2UCLA_50 Start: 31040, Stop: 30834, Start Num: 33
Candidate Starts for Artemis2UCLA_50:
(21, 31148), (Start: 33 @31040 has 468 MA's), (39, 31001), (42, 30992), (43, 30977), (55, 30884),

Gene: Arturo_46 Start: 32333, Stop: 32157, Start Num: 33
Candidate Starts for Arturo_46:
(16, 32483), (Start: 33 @32333 has 468 MA's), (37, 32309), (52, 32192), (53, 32180),

Gene: AugsMagnumOpus_54 Start: 32481, Stop: 32293, Start Num: 33
Candidate Starts for AugsMagnumOpus_54:
(Start: 33 @32481 has 468 MA's), (39, 32445), (49, 32367),

Gene: AvatarAhPeg_46 Start: 32552, Stop: 32379, Start Num: 33
Candidate Starts for AvatarAhPeg_46:
(Start: 33 @32552 has 468 MA's), (37, 32531), (52, 32414), (53, 32402),

Gene: Avle17_47 Start: 32050, Stop: 31877, Start Num: 33
Candidate Starts for Avle17_47:

(Start: 33 @32050 has 468 MA's), (37, 32029), (46, 31966), (52, 31912), (53, 31900),

Gene: Ayanochan_47 Start: 32373, Stop: 32161, Start Num: 33
Candidate Starts for Ayanochan_47:
(9, 32631), (10, 32625), (19, 32493), (21, 32481), (Start: 33 @32373 has 468 MA's), (43, 32316), (44, 32313), (55, 32223),

Gene: Baby16_47 Start: 32064, Stop: 31891, Start Num: 33
Candidate Starts for Baby16_47:
(Start: 33 @32064 has 468 MA's), (37, 32043), (46, 31980), (52, 31926), (53, 31914),

Gene: BabyBack_47 Start: 33062, Stop: 32862, Start Num: 33
Candidate Starts for BabyBack_47:
(21, 33170), (23, 33158), (Start: 33 @33062 has 468 MA's), (Start: 36 @33047 has 1 MA's), (55, 32912),

Gene: Bachome_50 Start: 31898, Stop: 31686, Start Num: 33
Candidate Starts for Bachome_50:
(Start: 33 @31898 has 468 MA's), (43, 31835),

Gene: Backyardigan_45 Start: 32059, Stop: 31883, Start Num: 33
Candidate Starts for Backyardigan_45:
(Start: 33 @32059 has 468 MA's), (46, 31972), (52, 31918), (53, 31906),

Gene: Bactobuster_47 Start: 33296, Stop: 33093, Start Num: 33
Candidate Starts for Bactobuster_47:
(21, 33398), (23, 33386), (28, 33347), (Start: 33 @33296 has 468 MA's), (Start: 35 @33278 has 1 MA's), (Start: 36 @33275 has 1 MA's), (39, 33257), (40, 33254), (55, 33140),

Gene: Badger_45 Start: 32027, Stop: 31851, Start Num: 33
Candidate Starts for Badger_45:
(Start: 33 @32027 has 468 MA's), (46, 31940), (52, 31886), (53, 31874),

Gene: Baehexic_47 Start: 32512, Stop: 32300, Start Num: 33
Candidate Starts for Baehexic_47:
(21, 32614), (23, 32602), (Start: 33 @32512 has 468 MA's), (55, 32356),

Gene: BangNhom_48 Start: 32475, Stop: 32302, Start Num: 33
Candidate Starts for BangNhom_48:
(Start: 33 @32475 has 468 MA's), (46, 32391), (52, 32337), (53, 32325),

Gene: Bartimeaus_47 Start: 32055, Stop: 31882, Start Num: 33
Candidate Starts for Bartimeaus_47:
(Start: 33 @32055 has 468 MA's), (37, 32034), (46, 31971), (52, 31917), (53, 31905),

Gene: Battleship_51 Start: 30813, Stop: 30583, Start Num: 32
Candidate Starts for Battleship_51:
(4, 31158), (Start: 32 @30813 has 24 MA's), (41, 30759), (42, 30756), (43, 30741),

Gene: Beauxregard13_51 Start: 32493, Stop: 32305, Start Num: 33
Candidate Starts for Beauxregard13_51:
(Start: 33 @32493 has 468 MA's), (39, 32457), (49, 32379),

Gene: Beemo_48 Start: 32368, Stop: 32156, Start Num: 33
Candidate Starts for Beemo_48:
(9, 32626), (10, 32620), (19, 32488), (21, 32476), (Start: 33 @32368 has 468 MA's), (43, 32311), (44, 32308), (55, 32218),

Gene: Bellris_47 Start: 31616, Stop: 31395, Start Num: 33
Candidate Starts for Bellris_47:
(17, 31751), (20, 31727), (Start: 33 @31616 has 468 MA's), (43, 31556), (44, 31553), (55, 31463),

Gene: BellusTerra_48 Start: 32054, Stop: 31881, Start Num: 33
Candidate Starts for BellusTerra_48:
(Start: 33 @32054 has 468 MA's), (37, 32033), (46, 31970), (52, 31916), (53, 31904),

Gene: BengiVuitton_49 Start: 32594, Stop: 32385, Start Num: 33
Candidate Starts for BengiVuitton_49:
(2, 32978), (Start: 33 @32594 has 468 MA's), (55, 32438),

Gene: BennyP_51 Start: 31491, Stop: 31282, Start Num: 33
Candidate Starts for BennyP_51:
(21, 31599), (Start: 33 @31491 has 468 MA's), (Start: 35 @31473 has 1 MA's), (39, 31449), (55, 31332),

Gene: Benvolio_45 Start: 31769, Stop: 31560, Start Num: 33
Candidate Starts for Benvolio_45:
(19, 31883), (21, 31871), (Start: 33 @31769 has 468 MA's), (43, 31706), (55, 31613),

Gene: Bigflo_51 Start: 32489, Stop: 32301, Start Num: 33
Candidate Starts for Bigflo_51:
(Start: 33 @32489 has 468 MA's), (39, 32453), (49, 32375),

Gene: Blackmoor_47 Start: 32055, Stop: 31882, Start Num: 33
Candidate Starts for Blackmoor_47:
(Start: 33 @32055 has 468 MA's), (37, 32034), (46, 31971), (52, 31917), (53, 31905),

Gene: BlessJoy_51 Start: 31501, Stop: 31295, Start Num: 33
Candidate Starts for BlessJoy_51:
(21, 31609), (Start: 33 @31501 has 468 MA's), (39, 31462), (42, 31453), (43, 31438), (55, 31345),

Gene: Blinn1_52 Start: 31303, Stop: 31094, Start Num: 33
Candidate Starts for Blinn1_52:
(Start: 33 @31303 has 468 MA's), (Start: 35 @31285 has 1 MA's), (39, 31261), (55, 31144), (60, 31117),

Gene: Blue7_52 Start: 31136, Stop: 30930, Start Num: 33
Candidate Starts for Blue7_52:
(21, 31244), (Start: 33 @31136 has 468 MA's), (42, 31088), (55, 30980),

Gene: BogosyJay_47 Start: 32089, Stop: 31862, Start Num: 33
Candidate Starts for BogosyJay_47:
(19, 32209), (21, 32197), (Start: 33 @32089 has 468 MA's), (Start: 36 @32071 has 1 MA's), (37, 32065), (43, 32029), (44, 32026), (55, 31936),

Gene: Bombshell_47 Start: 32050, Stop: 31877, Start Num: 33

Candidate Starts for Bombshell_47:
(Start: 33 @32050 has 468 MA's), (37, 32029), (46, 31966), (52, 31912), (53, 31900),

Gene: Boohoo_51 Start: 31080, Stop: 30850, Start Num: 32
Candidate Starts for Boohoo_51:
(Start: 32 @31080 has 24 MA's), (41, 31026), (42, 31023), (43, 31008),

Gene: Bowtie_49 Start: 31917, Stop: 31705, Start Num: 33
Candidate Starts for Bowtie_49:
(14, 32064), (Start: 33 @31917 has 468 MA's), (43, 31854),

Gene: Bradman_47 Start: 31270, Stop: 31082, Start Num: 36
Candidate Starts for Bradman_47:
(14, 31444), (Start: 33 @31291 has 468 MA's), (Start: 36 @31270 has 1 MA's), (55, 31132),

Gene: BreSam8_51 Start: 32483, Stop: 32295, Start Num: 33
Candidate Starts for BreSam8_51:
(Start: 33 @32483 has 468 MA's), (39, 32447), (49, 32369),

Gene: Broseidon_47 Start: 32055, Stop: 31882, Start Num: 33
Candidate Starts for Broseidon_47:
(Start: 33 @32055 has 468 MA's), (37, 32034), (46, 31971), (52, 31917), (53, 31905),

Gene: Bruiser_46 Start: 32053, Stop: 31880, Start Num: 33
Candidate Starts for Bruiser_46:
(Start: 33 @32053 has 468 MA's), (37, 32032), (46, 31969), (52, 31915), (53, 31903),

Gene: BubbleTrouble_46 Start: 32053, Stop: 31880, Start Num: 33
Candidate Starts for BubbleTrouble_46:
(Start: 33 @32053 has 468 MA's), (37, 32032), (46, 31969), (52, 31915), (53, 31903),

Gene: Buckaroo_46 Start: 32057, Stop: 31884, Start Num: 33
Candidate Starts for Buckaroo_46:
(Start: 33 @32057 has 468 MA's), (37, 32036), (46, 31973), (52, 31919), (53, 31907),

Gene: Bud_48 Start: 31472, Stop: 31260, Start Num: 33
Candidate Starts for Bud_48:
(Start: 33 @31472 has 468 MA's), (43, 31409),

Gene: Bugsy_50 Start: 32882, Stop: 32670, Start Num: 33
Candidate Starts for Bugsy_50:
(Start: 33 @32882 has 468 MA's), (55, 32726),

Gene: Bumblebee11_45 Start: 32029, Stop: 31853, Start Num: 33
Candidate Starts for Bumblebee11_45:
(Start: 33 @32029 has 468 MA's), (46, 31942), (52, 31888), (53, 31876),

Gene: Burger_45 Start: 32053, Stop: 31880, Start Num: 33
Candidate Starts for Burger_45:
(Start: 33 @32053 has 468 MA's), (37, 32032), (46, 31969), (52, 31915), (53, 31903),

Gene: BuzzBuzz_49 Start: 32520, Stop: 32332, Start Num: 33
Candidate Starts for BuzzBuzz_49:

(Start: 33 @32520 has 468 MA's), (39, 32484), (49, 32406),

Gene: Bxz2_47 Start: 32527, Stop: 32339, Start Num: 33
Candidate Starts for Bxz2_47:
(Start: 33 @32527 has 468 MA's), (39, 32491), (49, 32413),

Gene: C3_46 Start: 32552, Stop: 32346, Start Num: 33
Candidate Starts for C3_46:
(Start: 33 @32552 has 468 MA's), (44, 32483), (46, 32462), (55, 32393), (59, 32369),

Gene: CRB1_51 Start: 32987, Stop: 32778, Start Num: 33
Candidate Starts for CRB1_51:
(2, 33368), (18, 33104), (29, 33002), (Start: 33 @32987 has 468 MA's), (55, 32831),

Gene: Caelakin_47 Start: 32053, Stop: 31880, Start Num: 33
Candidate Starts for Caelakin_47:
(Start: 33 @32053 has 468 MA's), (37, 32032), (46, 31969), (52, 31915), (53, 31903),

Gene: Calvinny_51 Start: 32389, Stop: 32201, Start Num: 33
Candidate Starts for Calvinny_51:
(Start: 33 @32389 has 468 MA's), (39, 32353), (49, 32275),

Gene: Camperdownii_45 Start: 31726, Stop: 31553, Start Num: 33
Candidate Starts for Camperdownii_45:
(Start: 33 @31726 has 468 MA's), (37, 31705), (46, 31642), (52, 31588), (53, 31576),

Gene: Candra_51 Start: 31382, Stop: 31173, Start Num: 33
Candidate Starts for Candra_51:
(21, 31490), (Start: 33 @31382 has 468 MA's), (Start: 35 @31364 has 1 MA's), (39, 31340), (55, 31223),

Gene: Caraxes_47 Start: 30908, Stop: 30723, Start Num: 35
Candidate Starts for Caraxes_47:
(Start: 33 @30926 has 468 MA's), (Start: 35 @30908 has 1 MA's), (40, 30884), (55, 30770),

Gene: Catalina_49 Start: 32319, Stop: 32107, Start Num: 33
Candidate Starts for Catalina_49:
(9, 32577), (10, 32571), (19, 32439), (21, 32427), (Start: 33 @32319 has 468 MA's), (43, 32262), (44, 32259), (55, 32169),

Gene: Celestialunch_46 Start: 31903, Stop: 31673, Start Num: 33
Candidate Starts for Celestialunch_46:
(21, 32005), (23, 31993), (Start: 33 @31903 has 468 MA's), (37, 31879), (43, 31843), (55, 31750),

Gene: Centaur_49 Start: 32729, Stop: 32517, Start Num: 33
Candidate Starts for Centaur_49:
(21, 32831), (23, 32819), (Start: 33 @32729 has 468 MA's), (55, 32573),

Gene: CentreCat_47 Start: 32056, Stop: 31883, Start Num: 33
Candidate Starts for CentreCat_47:
(Start: 33 @32056 has 468 MA's), (37, 32035), (46, 31972), (52, 31918), (53, 31906),

Gene: Cerulean_48 Start: 32476, Stop: 32303, Start Num: 33

Candidate Starts for Cerulean_48:
(Start: 33 @32476 has 468 MA's), (46, 32392), (52, 32338), (53, 32326),

Gene: ChampagnePapi_49 Start: 32475, Stop: 32302, Start Num: 33
Candidate Starts for ChampagnePapi_49:
(Start: 33 @32475 has 468 MA's), (46, 32391), (52, 32337), (53, 32325),

Gene: Changeling_47 Start: 32928, Stop: 32725, Start Num: 33
Candidate Starts for Changeling_47:
(23, 33024), (Start: 33 @32928 has 468 MA's), (42, 32880), (45, 32844), (55, 32772),

Gene: Chaph_47 Start: 32064, Stop: 31891, Start Num: 33
Candidate Starts for Chaph_47:
(Start: 33 @32064 has 468 MA's), (37, 32043), (46, 31980), (52, 31926), (53, 31914),

Gene: Chargerpower_47 Start: 31274, Stop: 31038, Start Num: 33
Candidate Starts for Chargerpower_47:
(19, 31394), (21, 31382), (23, 31370), (Start: 33 @31274 has 468 MA's), (37, 31247), (40, 31232), (43, 31211), (55, 31118),

Gene: Charm_47 Start: 32120, Stop: 31896, Start Num: 33
Candidate Starts for Charm_47:
(11, 32369), (12, 32339), (19, 32240), (21, 32228), (23, 32216), (Start: 33 @32120 has 468 MA's), (37, 32096), (43, 32060), (44, 32057), (55, 31967),

Gene: Chartreuse_49 Start: 30742, Stop: 30533, Start Num: 33
Candidate Starts for Chartreuse_49:
(21, 30850), (Start: 33 @30742 has 468 MA's), (Start: 35 @30724 has 1 MA's), (39, 30700), (55, 30583),

Gene: Che12_50 Start: 31360, Stop: 31148, Start Num: 33
Candidate Starts for Che12_50:
(21, 31468), (23, 31456), (Start: 33 @31360 has 468 MA's), (37, 31333), (41, 31315), (43, 31297), (44, 31294), (55, 31201),

Gene: ChipMunk_50 Start: 34079, Stop: 33870, Start Num: 33
Candidate Starts for ChipMunk_50:
(19, 34193), (21, 34181), (Start: 33 @34079 has 468 MA's), (55, 33923),

Gene: Cici_46 Start: 32044, Stop: 31868, Start Num: 33
Candidate Starts for Cici_46:
(Start: 33 @32044 has 468 MA's), (46, 31957), (52, 31903), (53, 31891),

Gene: Cindaradix_44 Start: 31669, Stop: 31493, Start Num: 33
Candidate Starts for Cindaradix_44:
(Start: 33 @31669 has 468 MA's), (37, 31645), (52, 31528),

Gene: Cintron_46 Start: 32033, Stop: 31860, Start Num: 33
Candidate Starts for Cintron_46:
(Start: 33 @32033 has 468 MA's), (37, 32012), (46, 31949), (52, 31895), (53, 31883),

Gene: Citius_47 Start: 32074, Stop: 31901, Start Num: 33
Candidate Starts for Citius_47:

(Start: 33 @32074 has 468 MA's), (37, 32053), (46, 31990), (52, 31936), (53, 31924),

Gene: Clarenza_46 Start: 32050, Stop: 31877, Start Num: 33
Candidate Starts for Clarenza_46:
(Start: 33 @32050 has 468 MA's), (37, 32029), (46, 31966), (52, 31912), (53, 31900),

Gene: CloudWang3_50 Start: 31140, Stop: 30934, Start Num: 33
Candidate Starts for CloudWang3_50:
(21, 31248), (Start: 33 @31140 has 468 MA's), (42, 31092), (55, 30984),

Gene: ClownCar_51 Start: 32382, Stop: 32194, Start Num: 33
Candidate Starts for ClownCar_51:
(Start: 33 @32382 has 468 MA's), (39, 32346), (49, 32268),

Gene: Cocoaberry_47 Start: 32057, Stop: 31884, Start Num: 33
Candidate Starts for Cocoaberry_47:
(Start: 33 @32057 has 468 MA's), (37, 32036), (46, 31973), (52, 31919), (53, 31907),

Gene: CogOmlette_46 Start: 31613, Stop: 31392, Start Num: 33
Candidate Starts for CogOmlette_46:
(17, 31748), (20, 31724), (Start: 33 @31613 has 468 MA's), (43, 31553), (44, 31550), (55, 31460),

Gene: Colbster_51 Start: 32493, Stop: 32305, Start Num: 33
Candidate Starts for Colbster_51:
(Start: 33 @32493 has 468 MA's), (39, 32457), (49, 32379),

Gene: Commander_47 Start: 32052, Stop: 31879, Start Num: 33
Candidate Starts for Commander_47:
(Start: 33 @32052 has 468 MA's), (37, 32031), (46, 31968), (52, 31914), (53, 31902),

Gene: Connomayer_47 Start: 32053, Stop: 31880, Start Num: 33
Candidate Starts for Connomayer_47:
(Start: 33 @32053 has 468 MA's), (37, 32032), (46, 31969), (52, 31915), (53, 31903),

Gene: Conquerage_48 Start: 32342, Stop: 32130, Start Num: 33
Candidate Starts for Conquerage_48:
(9, 32600), (10, 32594), (19, 32462), (21, 32450), (Start: 33 @32342 has 468 MA's), (43, 32285), (44, 32282), (55, 32192),

Gene: Cookiedough_50 Start: 31358, Stop: 31149, Start Num: 33
Candidate Starts for Cookiedough_50:
(21, 31466), (Start: 33 @31358 has 468 MA's), (Start: 35 @31340 has 1 MA's), (39, 31316), (55, 31199),

Gene: Croquant_52 Start: 32488, Stop: 32300, Start Num: 33
Candidate Starts for Croquant_52:
(Start: 33 @32488 has 468 MA's), (39, 32452), (49, 32374),

Gene: Crucio_48 Start: 32322, Stop: 32113, Start Num: 33
Candidate Starts for Crucio_48:
(19, 32436), (21, 32424), (Start: 33 @32322 has 468 MA's), (43, 32259), (55, 32166),

Gene: Cullens_51 Start: 32489, Stop: 32301, Start Num: 33

Candidate Starts for Cullens_51:
(Start: 33 @32489 has 468 MA's), (39, 32453), (49, 32375),

Gene: DBQu4n_50 Start: 32112, Stop: 31906, Start Num: 33
Candidate Starts for DBQu4n_50:
(Start: 33 @32112 has 468 MA's), (41, 32064), (55, 31953),

Gene: DaHudson_51 Start: 32482, Stop: 32294, Start Num: 33
Candidate Starts for DaHudson_51:
(Start: 33 @32482 has 468 MA's), (39, 32446), (49, 32368),

Gene: DaVinci_49 Start: 30796, Stop: 30587, Start Num: 33
Candidate Starts for DaVinci_49:
(21, 30904), (Start: 33 @30796 has 468 MA's), (Start: 35 @30778 has 1 MA's), (39, 30754), (55, 30637),

Gene: Daishi_50 Start: 31361, Stop: 31173, Start Num: 33
Candidate Starts for Daishi_50:
(Start: 33 @31361 has 468 MA's), (39, 31325), (49, 31247),

Gene: Dalmatian_49 Start: 32714, Stop: 32505, Start Num: 33
Candidate Starts for Dalmatian_49:
(19, 32828), (21, 32816), (Start: 33 @32714 has 468 MA's), (55, 32558),

Gene: Darrell_49 Start: 32708, Stop: 32490, Start Num: 33
Candidate Starts for Darrell_49:
(17, 32843), (20, 32819), (Start: 33 @32708 has 468 MA's), (37, 32684), (43, 32648), (55, 32555), (59, 32531),

Gene: DarthPhader_45 Start: 33153, Stop: 32947, Start Num: 33
Candidate Starts for DarthPhader_45:
(21, 33261), (Start: 33 @33153 has 468 MA's), (37, 33126), (40, 33111), (43, 33090), (44, 33087), (55, 32997),

Gene: Datway_46 Start: 32015, Stop: 31839, Start Num: 33
Candidate Starts for Datway_46:
(Start: 33 @32015 has 468 MA's), (46, 31928), (52, 31874), (53, 31862),

Gene: Deano_46 Start: 32061, Stop: 31888, Start Num: 33
Candidate Starts for Deano_46:
(Start: 33 @32061 has 468 MA's), (37, 32040), (46, 31977), (52, 31923), (53, 31911),

Gene: DeerParkTS_46 Start: 31840, Stop: 31640, Start Num: 33
Candidate Starts for DeerParkTS_46:
(Start: 33 @31840 has 468 MA's), (42, 31792), (45, 31756), (55, 31684),

Gene: DekHockey33_51 Start: 31295, Stop: 31065, Start Num: 32
Candidate Starts for DekHockey33_51:
(Start: 32 @31295 has 24 MA's), (41, 31241), (42, 31238), (43, 31223),

Gene: Deloris_48 Start: 32263, Stop: 32054, Start Num: 33
Candidate Starts for Deloris_48:
(2, 32647), (Start: 33 @32263 has 468 MA's), (55, 32107),

Gene: DelvinSonDorr_48 Start: 31234, Stop: 31025, Start Num: 33
Candidate Starts for DelvinSonDorr_48:
(21, 31342), (Start: 33 @31234 has 468 MA's), (Start: 35 @31216 has 1 MA's), (39, 31192), (55, 31075),

Gene: Dhanush_47 Start: 32056, Stop: 31883, Start Num: 33
Candidate Starts for Dhanush_47:
(Start: 33 @32056 has 468 MA's), (37, 32035), (46, 31972), (52, 31918), (53, 31906),

Gene: Dieselweasel_52 Start: 32492, Stop: 32304, Start Num: 33
Candidate Starts for Dieselweasel_52:
(Start: 33 @32492 has 468 MA's), (39, 32456), (49, 32378),

Gene: Dignity_50 Start: 32887, Stop: 32678, Start Num: 33
Candidate Starts for Dignity_50:
(19, 33001), (21, 32989), (Start: 33 @32887 has 468 MA's), (55, 32731),

Gene: DirtyDunning_46 Start: 32074, Stop: 31898, Start Num: 33
Candidate Starts for DirtyDunning_46:
(16, 32224), (Start: 33 @32074 has 468 MA's), (37, 32050), (52, 31933), (53, 31921),

Gene: Dorothea_50 Start: 31365, Stop: 31156, Start Num: 33
Candidate Starts for Dorothea_50:
(21, 31473), (Start: 33 @31365 has 468 MA's), (Start: 35 @31347 has 1 MA's), (39, 31323), (55, 31206),

Gene: Drake55_50 Start: 32805, Stop: 32602, Start Num: 33
Candidate Starts for Drake55_50:
(21, 32907), (23, 32895), (Start: 33 @32805 has 468 MA's), (Start: 35 @32787 has 1 MA's), (46, 32718), (55, 32649), (62, 32625),

Gene: DreamTeam1_47 Start: 31994, Stop: 31770, Start Num: 33
Candidate Starts for DreamTeam1_47:
(11, 32243), (12, 32213), (19, 32114), (21, 32102), (23, 32090), (Start: 33 @31994 has 468 MA's), (37, 31970), (43, 31934), (44, 31931), (55, 31841),

Gene: Druantia_47 Start: 32056, Stop: 31883, Start Num: 33
Candidate Starts for Druantia_47:
(Start: 33 @32056 has 468 MA's), (37, 32035), (46, 31972), (52, 31918), (53, 31906),

Gene: DudeLittle_47 Start: 32456, Stop: 32247, Start Num: 33
Candidate Starts for DudeLittle_47:
(19, 32570), (21, 32558), (Start: 33 @32456 has 468 MA's), (Start: 35 @32438 has 1 MA's), (55, 32300),

Gene: Duplo_50 Start: 32150, Stop: 31944, Start Num: 33
Candidate Starts for Duplo_50:
(Start: 33 @32150 has 468 MA's), (41, 32102), (55, 31991),

Gene: EZMoney23_46 Start: 32252, Stop: 32052, Start Num: 33
Candidate Starts for EZMoney23_46:
(Start: 33 @32252 has 468 MA's), (42, 32204), (45, 32168), (55, 32096), (64, 32060),

Gene: Eagle_47 Start: 32078, Stop: 31905, Start Num: 33
Candidate Starts for Eagle_47:
(Start: 33 @32078 has 468 MA's), (37, 32057), (46, 31994), (52, 31940), (53, 31928),

Gene: EagleEye_50 Start: 31872, Stop: 31663, Start Num: 33
Candidate Starts for EagleEye_50:
(Start: 33 @31872 has 468 MA's), (41, 31824), (43, 31806), (55, 31719),

Gene: Eapen_47 Start: 32048, Stop: 31875, Start Num: 33
Candidate Starts for Eapen_47:
(Start: 33 @32048 has 468 MA's), (37, 32027), (46, 31964), (52, 31910), (53, 31898),

Gene: Ebony_48 Start: 31489, Stop: 31277, Start Num: 33
Candidate Starts for Ebony_48:
(Start: 33 @31489 has 468 MA's), (43, 31426),

Gene: Echild_48 Start: 31793, Stop: 31584, Start Num: 33
Candidate Starts for Echild_48:
(19, 31907), (21, 31895), (Start: 33 @31793 has 468 MA's), (43, 31730), (55, 31637),

Gene: EdogawaKiddo_48 Start: 32319, Stop: 32107, Start Num: 33
Candidate Starts for EdogawaKiddo_48:
(9, 32577), (10, 32571), (19, 32439), (21, 32427), (Start: 33 @32319 has 468 MA's), (43, 32262), (44, 32259), (55, 32169),

Gene: Eidsmoe_48 Start: 32382, Stop: 32170, Start Num: 33
Candidate Starts for Eidsmoe_48:
(9, 32640), (10, 32634), (19, 32502), (21, 32490), (Start: 33 @32382 has 468 MA's), (43, 32325), (44, 32322), (55, 32232),

Gene: Elephantoon_47 Start: 31688, Stop: 31470, Start Num: 33
Candidate Starts for Elephantoon_47:
(21, 31790), (Start: 33 @31688 has 468 MA's), (Start: 36 @31670 has 1 MA's), (37, 31664), (43, 31628), (44, 31625), (55, 31535), (59, 31511),

Gene: EmyBug_47 Start: 32384, Stop: 32172, Start Num: 33
Candidate Starts for EmyBug_47:
(9, 32642), (10, 32636), (19, 32504), (21, 32492), (Start: 33 @32384 has 468 MA's), (43, 32327), (44, 32324), (55, 32234),

Gene: EpicPhail_52 Start: 32493, Stop: 32305, Start Num: 33
Candidate Starts for EpicPhail_52:
(Start: 33 @32493 has 468 MA's), (39, 32457), (49, 32379),

Gene: Epsocamisio_49 Start: 30615, Stop: 30388, Start Num: 32
Candidate Starts for Epsocamisio_49:
(Start: 32 @30615 has 24 MA's), (41, 30561), (42, 30558), (43, 30543),

Gene: Equemioh13_49 Start: 32631, Stop: 32419, Start Num: 33
Candidate Starts for Equemioh13_49:
(21, 32733), (23, 32721), (Start: 33 @32631 has 468 MA's), (55, 32475),

Gene: EricB_50 Start: 31339, Stop: 31130, Start Num: 33
Candidate Starts for EricB_50:
(21, 31447), (Start: 33 @31339 has 468 MA's), (Start: 35 @31321 has 1 MA's), (39, 31297), (55, 31180),

Gene: Eris_46 Start: 32053, Stop: 31880, Start Num: 33
Candidate Starts for Eris_46:
(Start: 33 @32053 has 468 MA's), (37, 32032), (46, 31969), (52, 31915), (53, 31903),

Gene: Eros_47 Start: 32055, Stop: 31882, Start Num: 33
Candidate Starts for Eros_47:
(Start: 33 @32055 has 468 MA's), (37, 32034), (46, 31971), (52, 31917), (53, 31905),

Gene: Et2Brutus_47 Start: 31449, Stop: 31237, Start Num: 33
Candidate Starts for Et2Brutus_47:
(Start: 33 @31449 has 468 MA's), (43, 31386),

Gene: Eurydice_48 Start: 32050, Stop: 31877, Start Num: 33
Candidate Starts for Eurydice_48:
(Start: 33 @32050 has 468 MA's), (37, 32029), (46, 31966), (52, 31912), (53, 31900),

Gene: EvilGenius_50 Start: 34083, Stop: 33874, Start Num: 33
Candidate Starts for EvilGenius_50:
(19, 34197), (21, 34185), (Start: 33 @34083 has 468 MA's), (55, 33927),

Gene: ExplosioNervosa_48 Start: 32402, Stop: 32190, Start Num: 33
Candidate Starts for ExplosioNervosa_48:
(9, 32660), (10, 32654), (19, 32522), (21, 32510), (Start: 33 @32402 has 468 MA's), (43, 32345), (44, 32342), (55, 32252),

Gene: Fameo_48 Start: 32632, Stop: 32423, Start Num: 33
Candidate Starts for Fameo_48:
(19, 32746), (21, 32734), (Start: 33 @32632 has 468 MA's), (43, 32569), (55, 32476),

Gene: Farber_51 Start: 32482, Stop: 32294, Start Num: 33
Candidate Starts for Farber_51:
(Start: 33 @32482 has 468 MA's), (39, 32446), (49, 32368),

Gene: FatCactus_40 Start: 29627, Stop: 29448, Start Num: 34
Candidate Starts for FatCactus_40:
(Start: 34 @29627 has 4 MA's), (53, 29483), (54, 29480),

Gene: Fayely_48 Start: 32351, Stop: 32139, Start Num: 33
Candidate Starts for Fayely_48:
(9, 32609), (10, 32603), (19, 32471), (21, 32459), (Start: 33 @32351 has 468 MA's), (43, 32294), (44, 32291), (55, 32201),

Gene: Fernando_51 Start: 32489, Stop: 32301, Start Num: 33
Candidate Starts for Fernando_51:
(Start: 33 @32489 has 468 MA's), (39, 32453), (49, 32375),

Gene: Fibonacci_48 Start: 31464, Stop: 31252, Start Num: 33
Candidate Starts for Fibonacci_48:

(Start: 33 @31464 has 468 MA's), (43, 31401),

Gene: FiringLine_48 Start: 32303, Stop: 32094, Start Num: 33
Candidate Starts for FiringLine_48:
(19, 32417), (21, 32405), (Start: 33 @32303 has 468 MA's), (55, 32147),

Gene: First_0049 Start: 32517, Stop: 32308, Start Num: 33
Candidate Starts for First_0049:
(2, 32901), (18, 32637), (Start: 33 @32517 has 468 MA's), (55, 32361),

Gene: Flare16_48 Start: 32390, Stop: 32178, Start Num: 33
Candidate Starts for Flare16_48:
(21, 32492), (23, 32480), (Start: 33 @32390 has 468 MA's), (55, 32234),

Gene: Flaverint_49 Start: 31911, Stop: 31699, Start Num: 33
Candidate Starts for Flaverint_49:
(14, 32058), (Start: 33 @31911 has 468 MA's), (43, 31848),

Gene: Florean_47 Start: 32052, Stop: 31879, Start Num: 33
Candidate Starts for Florean_47:
(Start: 33 @32052 has 468 MA's), (37, 32031), (46, 31968), (52, 31914), (53, 31902),

Gene: Flux_47 Start: 32052, Stop: 31879, Start Num: 33
Candidate Starts for Flux_47:
(Start: 33 @32052 has 468 MA's), (37, 32031), (46, 31968), (52, 31914), (53, 31902),

Gene: ForesterFrank_47 Start: 32997, Stop: 32794, Start Num: 33
Candidate Starts for ForesterFrank_47:
(Start: 33 @32997 has 468 MA's), (42, 32949), (45, 32913), (55, 32841),

Gene: Funston_46 Start: 32053, Stop: 31880, Start Num: 33
Candidate Starts for Funston_46:
(Start: 33 @32053 has 468 MA's), (37, 32032), (46, 31969), (52, 31915), (53, 31903),

Gene: Gadost_47 Start: 32057, Stop: 31884, Start Num: 33
Candidate Starts for Gadost_47:
(Start: 33 @32057 has 468 MA's), (37, 32036), (46, 31973), (52, 31919), (53, 31907),

Gene: Gail_53 Start: 34071, Stop: 33859, Start Num: 33
Candidate Starts for Gail_53:
(Start: 33 @34071 has 468 MA's), (46, 33984), (47, 33981), (55, 33915),

Gene: Garak_52 Start: 31507, Stop: 31301, Start Num: 33
Candidate Starts for Garak_52:
(21, 31615), (Start: 33 @31507 has 468 MA's), (39, 31468), (42, 31459), (43, 31444), (55, 31351),

Gene: GaugeLDP_46 Start: 32685, Stop: 32485, Start Num: 33
Candidate Starts for GaugeLDP_46:
(21, 32793), (23, 32781), (Start: 33 @32685 has 468 MA's), (Start: 36 @32670 has 1 MA's), (55, 32535),

Gene: Gemma_50 Start: 32385, Stop: 32197, Start Num: 33
Candidate Starts for Gemma_50:

(Start: 33 @32385 has 468 MA's), (39, 32349), (49, 32271),

Gene: Georgie2_49 Start: 32348, Stop: 32139, Start Num: 33
Candidate Starts for Georgie2_49:
(19, 32462), (21, 32450), (Start: 33 @32348 has 468 MA's), (55, 32192),

Gene: Gilberta_49 Start: 31901, Stop: 31689, Start Num: 33
Candidate Starts for Gilberta_49:
(14, 32048), (Start: 33 @31901 has 468 MA's), (43, 31838),

Gene: GingkoMaracino_51 Start: 32375, Stop: 32187, Start Num: 33
Candidate Starts for GingkoMaracino_51:
(Start: 33 @32375 has 468 MA's), (39, 32339), (49, 32261),

Gene: Gladiator_48 Start: 30670, Stop: 30461, Start Num: 33
Candidate Starts for Gladiator_48:
(21, 30778), (Start: 33 @30670 has 468 MA's), (Start: 35 @30652 has 1 MA's), (39, 30628), (55, 30511),

Gene: Gratitude_49 Start: 32631, Stop: 32419, Start Num: 33
Candidate Starts for Gratitude_49:
(21, 32733), (23, 32721), (Start: 33 @32631 has 468 MA's), (55, 32475),

Gene: GreedyLawyer_50 Start: 31346, Stop: 31137, Start Num: 33
Candidate Starts for GreedyLawyer_50:
(21, 31454), (Start: 33 @31346 has 468 MA's), (Start: 35 @31328 has 1 MA's), (39, 31304), (55, 31187),

Gene: Grif_51 Start: 32564, Stop: 32376, Start Num: 33
Candidate Starts for Grif_51:
(Start: 33 @32564 has 468 MA's), (39, 32528), (49, 32450),

Gene: Groupthink_52 Start: 32389, Stop: 32201, Start Num: 33
Candidate Starts for Groupthink_52:
(Start: 33 @32389 has 468 MA's), (39, 32353), (49, 32275),

Gene: Grub_51 Start: 32481, Stop: 32293, Start Num: 33
Candidate Starts for Grub_51:
(Start: 33 @32481 has 468 MA's), (39, 32445), (49, 32367),

Gene: Grum1_51 Start: 32489, Stop: 32301, Start Num: 33
Candidate Starts for Grum1_51:
(Start: 33 @32489 has 468 MA's), (39, 32453), (49, 32375),

Gene: Gruunaga_50 Start: 31343, Stop: 31137, Start Num: 33
Candidate Starts for Gruunaga_50:
(21, 31451), (Start: 33 @31343 has 468 MA's), (39, 31304), (42, 31295), (43, 31280), (55, 31187),

Gene: GtownJaz_51 Start: 32491, Stop: 32303, Start Num: 33
Candidate Starts for GtownJaz_51:
(Start: 33 @32491 has 468 MA's), (39, 32455), (49, 32377),

Gene: Gwennie_51 Start: 32493, Stop: 32305, Start Num: 33

Candidate Starts for Gwennie_51:
(Start: 33 @32493 has 468 MA's), (39, 32457), (49, 32379),

Gene: HamSlice_46 Start: 32051, Stop: 31878, Start Num: 33
Candidate Starts for HamSlice_46:
(Start: 33 @32051 has 468 MA's), (37, 32030), (46, 31967), (52, 31913), (53, 31901),

Gene: Hammer_51 Start: 30946, Stop: 30740, Start Num: 33
Candidate Starts for Hammer_51:
(21, 31054), (Start: 33 @30946 has 468 MA's), (42, 30898), (55, 30790),

Gene: Hanray_48 Start: 32323, Stop: 32111, Start Num: 33
Candidate Starts for Hanray_48:
(9, 32581), (10, 32575), (19, 32443), (21, 32431), (Start: 33 @32323 has 468 MA's), (43, 32266), (44, 32263), (55, 32173),

Gene: Happiness_46 Start: 32058, Stop: 31885, Start Num: 33
Candidate Starts for Happiness_46:
(Start: 33 @32058 has 468 MA's), (37, 32037), (46, 31974), (52, 31920), (53, 31908),

Gene: HarryHoudini_49 Start: 32814, Stop: 32611, Start Num: 33
Candidate Starts for HarryHoudini_49:
(21, 32916), (23, 32904), (Start: 33 @32814 has 468 MA's), (Start: 35 @32796 has 1 MA's), (46, 32727), (55, 32658), (62, 32634),

Gene: HashRod_52 Start: 32520, Stop: 32332, Start Num: 33
Candidate Starts for HashRod_52:
(Start: 33 @32520 has 468 MA's), (39, 32484), (49, 32406),

Gene: HaveUMetTed_52 Start: 32371, Stop: 32183, Start Num: 33
Candidate Starts for HaveUMetTed_52:
(Start: 33 @32371 has 468 MA's), (39, 32335), (49, 32257),

Gene: Heffalump_47 Start: 33100, Stop: 32891, Start Num: 33
Candidate Starts for Heffalump_47:
(19, 33214), (21, 33202), (Start: 33 @33100 has 468 MA's), (43, 33037), (55, 32944),

Gene: Heliosoles_50 Start: 32392, Stop: 32204, Start Num: 33
Candidate Starts for Heliosoles_50:
(Start: 33 @32392 has 468 MA's), (39, 32356), (49, 32278),

Gene: Helmet_52 Start: 31507, Stop: 31301, Start Num: 33
Candidate Starts for Helmet_52:
(21, 31615), (Start: 33 @31507 has 468 MA's), (39, 31468), (42, 31459), (43, 31444), (55, 31351),

Gene: Herbertwm_48 Start: 32176, Stop: 31973, Start Num: 33
Candidate Starts for Herbertwm_48:
(Start: 33 @32176 has 468 MA's), (43, 32113), (55, 32020),

Gene: Hercules11_51 Start: 32498, Stop: 32310, Start Num: 33
Candidate Starts for Hercules11_51:
(Start: 33 @32498 has 468 MA's), (39, 32462), (49, 32384),

Gene: Hexamo_50 Start: 31128, Stop: 30922, Start Num: 33
Candidate Starts for Hexamo_50:
(21, 31236), (Start: 33 @31128 has 468 MA's), (39, 31089), (42, 31080), (43, 31065), (55, 30972),

Gene: HippoHollow_48 Start: 33853, Stop: 33644, Start Num: 33
Candidate Starts for HippoHollow_48:
(21, 33955), (23, 33943), (Start: 33 @33853 has 468 MA's), (55, 33697),

Gene: Holex_48 Start: 32342, Stop: 32130, Start Num: 33
Candidate Starts for Holex_48:
(9, 32600), (10, 32594), (19, 32462), (21, 32450), (Start: 33 @32342 has 468 MA's), (43, 32285), (44, 32282), (55, 32192),

Gene: Holli_46 Start: 31843, Stop: 31670, Start Num: 33
Candidate Starts for Holli_46:
(Start: 33 @31843 has 468 MA's), (37, 31822), (46, 31759), (52, 31705), (53, 31693),

Gene: HortumSL17_48 Start: 32318, Stop: 32106, Start Num: 33
Candidate Starts for HortumSL17_48:
(9, 32576), (10, 32570), (19, 32438), (21, 32426), (Start: 33 @32318 has 468 MA's), (43, 32261), (44, 32258), (55, 32168),

Gene: Houdini22_47 Start: 32057, Stop: 31884, Start Num: 33
Candidate Starts for Houdini22_47:
(Start: 33 @32057 has 468 MA's), (37, 32036), (46, 31973), (52, 31919), (53, 31907),

Gene: Hutc2_48 Start: 31464, Stop: 31252, Start Num: 33
Candidate Starts for Hutc2_48:
(Start: 33 @31464 has 468 MA's), (43, 31401),

Gene: Huxley_46 Start: 32114, Stop: 31941, Start Num: 33
Candidate Starts for Huxley_46:
(Start: 33 @32114 has 468 MA's), (37, 32093), (46, 32030), (52, 31976), (53, 31964),

Gene: ICleared_47 Start: 32082, Stop: 31909, Start Num: 33
Candidate Starts for ICleared_47:
(Start: 33 @32082 has 468 MA's), (37, 32061), (46, 31998), (52, 31944), (53, 31932),

Gene: Iceman_47 Start: 32339, Stop: 32166, Start Num: 33
Candidate Starts for Iceman_47:
(Start: 33 @32339 has 468 MA's), (37, 32318), (46, 32255), (52, 32201), (53, 32189),

Gene: Imbriano_51 Start: 31364, Stop: 31155, Start Num: 33
Candidate Starts for Imbriano_51:
(21, 31472), (Start: 33 @31364 has 468 MA's), (Start: 35 @31346 has 1 MA's), (39, 31322), (55, 31205),

Gene: Indra_53 Start: 31508, Stop: 31302, Start Num: 33
Candidate Starts for Indra_53:
(21, 31616), (Start: 33 @31508 has 468 MA's), (39, 31469), (42, 31460), (43, 31445), (55, 31352),

Gene: Insomnia_49 Start: 31969, Stop: 31757, Start Num: 33
Candidate Starts for Insomnia_49:

(Start: 33 @31969 has 468 MA's), (43, 31906),

Gene: Iracema64_48 Start: 32317, Stop: 32144, Start Num: 33
Candidate Starts for Iracema64_48:
(Start: 33 @32317 has 468 MA's), (37, 32296), (46, 32233), (52, 32179), (53, 32167),

Gene: IronMan_48 Start: 33479, Stop: 33276, Start Num: 33
Candidate Starts for IronMan_48:
(21, 33581), (28, 33530), (Start: 33 @33479 has 468 MA's), (Start: 35 @33461 has 1 MA's), (39, 33440), (40, 33437), (55, 33323),

Gene: Isiphiwo_48 Start: 30883, Stop: 30674, Start Num: 33
Candidate Starts for Isiphiwo_48:
(21, 30991), (Start: 33 @30883 has 468 MA's), (Start: 35 @30865 has 1 MA's), (39, 30841), (55, 30724),

Gene: Iwokeuplikedis_51 Start: 32416, Stop: 32213, Start Num: 33
Candidate Starts for Iwokeuplikedis_51:
(Start: 33 @32416 has 468 MA's), (Start: 35 @32398 has 1 MA's), (41, 32371), (55, 32260),

Gene: JHC117_51 Start: 32488, Stop: 32300, Start Num: 33
Candidate Starts for JHC117_51:
(Start: 33 @32488 has 468 MA's), (39, 32452), (49, 32374),

Gene: JSwag_49 Start: 30553, Stop: 30326, Start Num: 32
Candidate Starts for JSwag_49:
(4, 30898), (Start: 32 @30553 has 24 MA's), (41, 30499), (42, 30496), (43, 30481),

Gene: Jaan_48 Start: 33645, Stop: 33442, Start Num: 33
Candidate Starts for Jaan_48:
(21, 33747), (23, 33735), (28, 33696), (Start: 33 @33645 has 468 MA's), (Start: 35 @33627 has 1 MA's), (Start: 36 @33624 has 1 MA's), (39, 33606), (40, 33603), (55, 33489),

Gene: Jabith_49 Start: 31970, Stop: 31758, Start Num: 33
Candidate Starts for Jabith_49:
(Start: 33 @31970 has 468 MA's), (43, 31907),

Gene: Jaykayelowell_45 Start: 32046, Stop: 31873, Start Num: 33
Candidate Starts for Jaykayelowell_45:
(Start: 33 @32046 has 468 MA's), (37, 32025), (46, 31962), (52, 31908), (53, 31896),

Gene: Jeeves_53 Start: 32846, Stop: 32631, Start Num: 33
Candidate Starts for Jeeves_53:
(Start: 33 @32846 has 468 MA's), (41, 32798), (46, 32756), (47, 32753), (55, 32687),

Gene: Jeffabunny_50 Start: 31164, Stop: 30958, Start Num: 33
Candidate Starts for Jeffabunny_50:
(21, 31272), (Start: 33 @31164 has 468 MA's), (39, 31125), (42, 31116), (43, 31101), (55, 31008),

Gene: JenCasNa_52 Start: 32489, Stop: 32301, Start Num: 33
Candidate Starts for JenCasNa_52:
(Start: 33 @32489 has 468 MA's), (39, 32453), (49, 32375),

Gene: JeppNRM_52 Start: 32390, Stop: 32202, Start Num: 33
Candidate Starts for JeppNRM_52:
(Start: 33 @32390 has 468 MA's), (39, 32354), (49, 32276),

Gene: Jerm_50 Start: 32880, Stop: 32671, Start Num: 33
Candidate Starts for Jerm_50:
(19, 32994), (21, 32982), (Start: 33 @32880 has 468 MA's), (55, 32724),

Gene: JetBlade_47 Start: 32047, Stop: 31874, Start Num: 33
Candidate Starts for JetBlade_47:
(Start: 33 @32047 has 468 MA's), (37, 32026), (46, 31963), (52, 31909), (53, 31897),

Gene: Jiawan_48 Start: 32355, Stop: 32143, Start Num: 33
Candidate Starts for Jiawan_48:
(9, 32613), (10, 32607), (19, 32475), (21, 32463), (Start: 33 @32355 has 468 MA's), (43, 32298), (44, 32295), (55, 32205),

Gene: Jobu08_50 Start: 32321, Stop: 32133, Start Num: 33
Candidate Starts for Jobu08_50:
(Start: 33 @32321 has 468 MA's), (39, 32285), (49, 32207),

Gene: JoongJeon_46 Start: 32050, Stop: 31877, Start Num: 33
Candidate Starts for JoongJeon_46:
(Start: 33 @32050 has 468 MA's), (37, 32029), (46, 31966), (52, 31912), (53, 31900),

Gene: Jordennis_49 Start: 30803, Stop: 30594, Start Num: 33
Candidate Starts for Jordennis_49:
(Start: 33 @30803 has 468 MA's), (Start: 35 @30785 has 1 MA's), (39, 30761), (55, 30644),

Gene: Joselito_49 Start: 31910, Stop: 31698, Start Num: 33
Candidate Starts for Joselito_49:
(14, 32057), (Start: 33 @31910 has 468 MA's), (43, 31847),

Gene: JoshKayV_50 Start: 32961, Stop: 32752, Start Num: 33
Candidate Starts for JoshKayV_50:
(19, 33075), (21, 33063), (Start: 33 @32961 has 468 MA's), (48, 32853), (55, 32805),

Gene: Journey13_42 Start: 30735, Stop: 30526, Start Num: 33
Candidate Starts for Journey13_42:
(19, 30855), (21, 30843), (Start: 33 @30735 has 468 MA's), (37, 30708), (43, 30672), (55, 30579), (65, 30537),

Gene: Jsquared_46 Start: 31228, Stop: 31022, Start Num: 33
Candidate Starts for Jsquared_46:
(Start: 33 @31228 has 468 MA's), (Start: 36 @31207 has 1 MA's), (46, 31141), (55, 31072),

Gene: Junimo_46 Start: 32053, Stop: 31880, Start Num: 33
Candidate Starts for Junimo_46:
(Start: 33 @32053 has 468 MA's), (37, 32032), (46, 31969), (52, 31915), (53, 31903),

Gene: KADY_51 Start: 32520, Stop: 32332, Start Num: 33
Candidate Starts for KADY_51:
(Start: 33 @32520 has 468 MA's), (39, 32484), (49, 32406),

Gene: KFPoly_46 Start: 32047, Stop: 31874, Start Num: 33
Candidate Starts for KFPoly_46:
(Start: 33 @32047 has 468 MA's), (37, 32026), (46, 31963), (52, 31909), (53, 31897),

Gene: Kalb97_52 Start: 32388, Stop: 32200, Start Num: 33
Candidate Starts for Kalb97_52:
(Start: 33 @32388 has 468 MA's), (39, 32352), (49, 32274),

Gene: Kalnoky_52 Start: 32386, Stop: 32198, Start Num: 33
Candidate Starts for Kalnoky_52:
(Start: 33 @32386 has 468 MA's), (39, 32350), (49, 32272),

Gene: Kalpine_46 Start: 32595, Stop: 32392, Start Num: 33
Candidate Starts for Kalpine_46:
(Start: 33 @32595 has 468 MA's), (Start: 35 @32577 has 1 MA's), (42, 32547), (55, 32439),

Gene: Kampy_47 Start: 32055, Stop: 31882, Start Num: 33
Candidate Starts for Kampy_47:
(Start: 33 @32055 has 468 MA's), (37, 32034), (46, 31971), (52, 31917), (53, 31905),

Gene: Katalie136_46 Start: 32029, Stop: 31853, Start Num: 33
Candidate Starts for Katalie136_46:
(Start: 33 @32029 has 468 MA's), (46, 31942), (52, 31888), (53, 31876),

Gene: KatherineG_52 Start: 31295, Stop: 31065, Start Num: 32
Candidate Starts for KatherineG_52:
(Start: 32 @31295 has 24 MA's), (41, 31241), (42, 31238), (43, 31223),

Gene: Kazan_51 Start: 31352, Stop: 31143, Start Num: 33
Candidate Starts for Kazan_51:
(21, 31460), (Start: 33 @31352 has 468 MA's), (Start: 35 @31334 has 1 MA's), (39, 31310), (55, 31193),

Gene: KekoraPapaka_47 Start: 32053, Stop: 31880, Start Num: 33
Candidate Starts for KekoraPapaka_47:
(Start: 33 @32053 has 468 MA's), (37, 32032), (46, 31969), (52, 31915), (53, 31903),

Gene: Kerberos_50 Start: 32112, Stop: 31906, Start Num: 33
Candidate Starts for Kerberos_50:
(Start: 33 @32112 has 468 MA's), (41, 32064), (55, 31953),

Gene: Keziacharles14_48 Start: 33355, Stop: 33137, Start Num: 34
Candidate Starts for Keziacharles14_48:
(21, 33457), (23, 33445), (Start: 34 @33355 has 4 MA's), (43, 33298), (44, 33295), (47, 33271), (55, 33205),

Gene: Kimba_48 Start: 31490, Stop: 31278, Start Num: 33
Candidate Starts for Kimba_48:
(Start: 33 @31490 has 468 MA's), (43, 31427),

Gene: KingCyrus_50 Start: 34078, Stop: 33869, Start Num: 33
Candidate Starts for KingCyrus_50:

(19, 34192), (21, 34180), (Start: 33 @34078 has 468 MA's), (55, 33922),

Gene: Kingmustik0402_47 Start: 32042, Stop: 31869, Start Num: 33
Candidate Starts for Kingmustik0402_47:
(Start: 33 @32042 has 468 MA's), (37, 32021), (46, 31958), (52, 31904), (53, 31892),

Gene: Kinmap_45 Start: 31629, Stop: 31423, Start Num: 33
Candidate Starts for Kinmap_45:
(8, 31902), (Start: 33 @31629 has 468 MA's), (40, 31587), (42, 31581),

Gene: Kipper29_50 Start: 31365, Stop: 31156, Start Num: 33
Candidate Starts for Kipper29_50:
(21, 31473), (Start: 33 @31365 has 468 MA's), (Start: 35 @31347 has 1 MA's), (39, 31323), (55, 31206),

Gene: Klodlith_48 Start: 32014, Stop: 31787, Start Num: 33
Candidate Starts for Klodlith_48:
(11, 32263), (12, 32233), (19, 32134), (21, 32122), (23, 32110), (Start: 33 @32014 has 468 MA's), (37, 31990), (43, 31954), (44, 31951), (55, 31861),

Gene: Koan_45 Start: 32053, Stop: 31880, Start Num: 33
Candidate Starts for Koan_45:
(Start: 33 @32053 has 468 MA's), (37, 32032), (46, 31969), (52, 31915), (53, 31903),

Gene: Koduck_49 Start: 31520, Stop: 31314, Start Num: 33
Candidate Starts for Koduck_49:
(Start: 33 @31520 has 468 MA's), (Start: 36 @31499 has 1 MA's), (42, 31472), (55, 31364),

Gene: Koko_51 Start: 31485, Stop: 31279, Start Num: 33
Candidate Starts for Koko_51:
(21, 31593), (Start: 33 @31485 has 468 MA's), (42, 31437), (55, 31329),

Gene: Koreni_46 Start: 31734, Stop: 31561, Start Num: 33
Candidate Starts for Koreni_46:
(Start: 33 @31734 has 468 MA's), (37, 31713), (46, 31650), (52, 31596), (53, 31584),

Gene: Kratark_47 Start: 32216, Stop: 32040, Start Num: 33
Candidate Starts for Kratark_47:
(16, 32366), (Start: 33 @32216 has 468 MA's), (37, 32192), (52, 32075), (53, 32063),

Gene: Kremtemulon_47 Start: 32004, Stop: 31831, Start Num: 33
Candidate Starts for Kremtemulon_47:
(Start: 33 @32004 has 468 MA's), (37, 31983), (46, 31920), (52, 31866), (53, 31854),

Gene: Kyee_47 Start: 32051, Stop: 31878, Start Num: 33
Candidate Starts for Kyee_47:
(Start: 33 @32051 has 468 MA's), (37, 32030), (46, 31967), (52, 31913), (53, 31901),

Gene: L5_47 Start: 31595, Stop: 31386, Start Num: 33
Candidate Starts for L5_47:
(Start: 33 @31595 has 468 MA's), (Start: 36 @31574 has 1 MA's), (42, 31547), (55, 31436),

Gene: LBerry_52 Start: 32493, Stop: 32305, Start Num: 33

Candidate Starts for LBerry_52:
(Start: 33 @32493 has 468 MA's), (39, 32457), (49, 32379),

Gene: LHTSCC_49 Start: 32475, Stop: 32302, Start Num: 33
Candidate Starts for LHTSCC_49:
(Start: 33 @32475 has 468 MA's), (46, 32391), (52, 32337), (53, 32325),

Gene: LadyBird_52 Start: 32952, Stop: 32743, Start Num: 33
Candidate Starts for LadyBird_52:
(2, 33336), (18, 33072), (Start: 33 @32952 has 468 MA's), (55, 32796),

Gene: Landor_48 Start: 33557, Stop: 33354, Start Num: 33
Candidate Starts for Landor_48:
(21, 33659), (23, 33647), (28, 33608), (Start: 33 @33557 has 468 MA's), (Start: 35 @33539 has 1 MA's), (Start: 36 @33536 has 1 MA's), (39, 33518), (40, 33515), (55, 33401),

Gene: LappelDuVide_47 Start: 32052, Stop: 31879, Start Num: 33
Candidate Starts for LappelDuVide_47:
(Start: 33 @32052 has 468 MA's), (37, 32031), (46, 31968), (52, 31914), (53, 31902),

Gene: Larenn_47 Start: 32493, Stop: 32284, Start Num: 33
Candidate Starts for Larenn_47:
(21, 32595), (Start: 33 @32493 has 468 MA's), (55, 32337),

Gene: LarryKay_51 Start: 32522, Stop: 32334, Start Num: 33
Candidate Starts for LarryKay_51:
(Start: 33 @32522 has 468 MA's), (39, 32486), (49, 32408),

Gene: LastResort_50 Start: 30856, Stop: 30626, Start Num: 32
Candidate Starts for LastResort_50:
(Start: 32 @30856 has 24 MA's), (41, 30802), (42, 30799), (43, 30784),

Gene: Lemur_47 Start: 32050, Stop: 31877, Start Num: 33
Candidate Starts for Lemur_47:
(Start: 33 @32050 has 468 MA's), (37, 32029), (46, 31966), (52, 31912), (53, 31900),

Gene: LeoAvram_47 Start: 32053, Stop: 31880, Start Num: 33
Candidate Starts for LeoAvram_47:
(Start: 33 @32053 has 468 MA's), (37, 32032), (46, 31969), (52, 31915), (53, 31903),

Gene: Leogania_48 Start: 33507, Stop: 33295, Start Num: 33
Candidate Starts for Leogania_48:
(Start: 33 @33507 has 468 MA's), (42, 33459), (45, 33423), (55, 33351), (56, 33339),

Gene: Leviathan_50 Start: 32936, Stop: 32727, Start Num: 33
Candidate Starts for Leviathan_50:
(19, 33050), (21, 33038), (Start: 33 @32936 has 468 MA's), (55, 32780),

Gene: LilTurb_49 Start: 32769, Stop: 32560, Start Num: 33
Candidate Starts for LilTurb_49:
(19, 32883), (21, 32871), (Start: 33 @32769 has 468 MA's), (55, 32613),

Gene: Lilbunny_49 Start: 31138, Stop: 30932, Start Num: 33

Candidate Starts for Lilbunny_49:
(21, 31246), (Start: 33 @31138 has 468 MA's), (39, 31099), (42, 31090), (43, 31075), (55, 30982),

Gene: Lilith_52 Start: 32482, Stop: 32294, Start Num: 33
Candidate Starts for Lilith_52:
(Start: 33 @32482 has 468 MA's), (39, 32446), (49, 32368),

Gene: Lilleskat_48 Start: 32272, Stop: 32060, Start Num: 33
Candidate Starts for Lilleskat_48:
(9, 32530), (10, 32524), (19, 32392), (21, 32380), (Start: 33 @32272 has 468 MA's), (43, 32215), (44, 32212), (55, 32122),

Gene: LionsBait_48 Start: 33854, Stop: 33645, Start Num: 33
Candidate Starts for LionsBait_48:
(21, 33956), (23, 33944), (Start: 33 @33854 has 468 MA's), (55, 33698),

Gene: LittleB_47 Start: 32054, Stop: 31881, Start Num: 33
Candidate Starts for LittleB_47:
(Start: 33 @32054 has 468 MA's), (37, 32033), (46, 31970), (52, 31916), (53, 31904),

Gene: LittleGuy_47 Start: 31949, Stop: 31776, Start Num: 33
Candidate Starts for LittleGuy_47:
(Start: 33 @31949 has 468 MA's), (37, 31928), (46, 31865), (52, 31811), (53, 31799),

Gene: LochMonster_48 Start: 32289, Stop: 32116, Start Num: 33
Candidate Starts for LochMonster_48:
(Start: 33 @32289 has 468 MA's), (37, 32268), (46, 32205), (52, 32151), (53, 32139),

Gene: LogiBear_49 Start: 30587, Stop: 30378, Start Num: 33
Candidate Starts for LogiBear_49:
(Start: 33 @30587 has 468 MA's), (58, 30416),

Gene: LoneWolf_48 Start: 32078, Stop: 31863, Start Num: 33
Candidate Starts for LoneWolf_48:
(26, 32144), (Start: 33 @32078 has 468 MA's), (43, 32018), (44, 32015), (55, 31925), (63, 31889),

Gene: Looper_51 Start: 30833, Stop: 30603, Start Num: 32
Candidate Starts for Looper_51:
(Start: 32 @30833 has 24 MA's), (41, 30779), (42, 30776), (43, 30761),

Gene: Lorenzo_47 Start: 32053, Stop: 31880, Start Num: 33
Candidate Starts for Lorenzo_47:
(Start: 33 @32053 has 468 MA's), (37, 32032), (46, 31969), (52, 31915), (53, 31903),

Gene: Loser_50 Start: 33295, Stop: 33092, Start Num: 33
Candidate Starts for Loser_50:
(Start: 33 @33295 has 468 MA's), (42, 33247), (55, 33139),

Gene: Louie6_50 Start: 32521, Stop: 32333, Start Num: 33
Candidate Starts for Louie6_50:
(Start: 33 @32521 has 468 MA's), (39, 32485), (49, 32407),

Gene: Lowa_51 Start: 32481, Stop: 32293, Start Num: 33

Candidate Starts for Lowa_51:
(Start: 33 @32481 has 468 MA's), (39, 32445), (49, 32367),

Gene: Luchador_53 Start: 34634, Stop: 34419, Start Num: 33
Candidate Starts for Luchador_53:
(Start: 33 @34634 has 468 MA's), (45, 34547), (46, 34544), (47, 34541), (55, 34475),

Gene: Lucivia_49 Start: 31959, Stop: 31747, Start Num: 33
Candidate Starts for Lucivia_49:
(14, 32106), (Start: 33 @31959 has 468 MA's), (43, 31896),

Gene: Lucyedi_49 Start: 32067, Stop: 31858, Start Num: 33
Candidate Starts for Lucyedi_49:
(Start: 33 @32067 has 468 MA's), (41, 32019), (43, 32001), (55, 31914),

Gene: LugYA_54 Start: 32490, Stop: 32302, Start Num: 33
Candidate Starts for LugYA_54:
(Start: 33 @32490 has 468 MA's), (39, 32454), (49, 32376),

Gene: Lunsford_48 Start: 32047, Stop: 31874, Start Num: 33
Candidate Starts for Lunsford_48:
(Start: 33 @32047 has 468 MA's), (37, 32026), (46, 31963), (52, 31909), (53, 31897),

Gene: MaCh_49 Start: 31897, Stop: 31685, Start Num: 33
Candidate Starts for MaCh_49:
(Start: 33 @31897 has 468 MA's), (43, 31834),

Gene: Mabel_48 Start: 31499, Stop: 31287, Start Num: 33
Candidate Starts for Mabel_48:
(Start: 33 @31499 has 468 MA's), (43, 31436),

Gene: MadMarie_51 Start: 32491, Stop: 32303, Start Num: 33
Candidate Starts for MadMarie_51:
(Start: 33 @32491 has 468 MA's), (39, 32455), (49, 32377),

Gene: Mainiac_51 Start: 32483, Stop: 32295, Start Num: 33
Candidate Starts for Mainiac_51:
(Start: 33 @32483 has 468 MA's), (39, 32447), (49, 32369),

Gene: MajorMajor_47 Start: 31270, Stop: 31082, Start Num: 36
Candidate Starts for MajorMajor_47:
(14, 31444), (Start: 33 @31291 has 468 MA's), (Start: 36 @31270 has 1 MA's), (55, 31132),

Gene: Malec_48 Start: 33057, Stop: 32848, Start Num: 33
Candidate Starts for Malec_48:
(21, 33159), (Start: 33 @33057 has 468 MA's), (55, 32901),

Gene: Malinsilva_53 Start: 32481, Stop: 32293, Start Num: 33
Candidate Starts for Malinsilva_53:
(Start: 33 @32481 has 468 MA's), (39, 32445), (49, 32367),

Gene: Maminiaina_47 Start: 32071, Stop: 31844, Start Num: 33
Candidate Starts for Maminiaina_47:

(19, 32191), (21, 32179), (Start: 33 @32071 has 468 MA's), (Start: 36 @32053 has 1 MA's), (37, 32047), (43, 32011), (44, 32008), (55, 31918),

Gene: Manu_51 Start: 32389, Stop: 32201, Start Num: 33
Candidate Starts for Manu_51:
(Start: 33 @32389 has 468 MA's), (39, 32353), (49, 32275),

Gene: MarQuardt_51 Start: 32491, Stop: 32303, Start Num: 33
Candidate Starts for MarQuardt_51:
(Start: 33 @32491 has 468 MA's), (39, 32455), (49, 32377),

Gene: Marie_51 Start: 32489, Stop: 32301, Start Num: 33
Candidate Starts for Marie_51:
(Start: 33 @32489 has 468 MA's), (39, 32453), (49, 32375),

Gene: Marius_52 Start: 32386, Stop: 32198, Start Num: 33
Candidate Starts for Marius_52:
(Start: 33 @32386 has 468 MA's), (39, 32350), (49, 32272),

Gene: Maverick_47 Start: 32053, Stop: 31880, Start Num: 33
Candidate Starts for Maverick_47:
(Start: 33 @32053 has 468 MA's), (37, 32032), (46, 31969), (52, 31915), (53, 31903),

Gene: Maxo_48 Start: 32055, Stop: 31882, Start Num: 33
Candidate Starts for Maxo_48:
(Start: 33 @32055 has 468 MA's), (37, 32034), (46, 31971), (52, 31917), (53, 31905),

Gene: Mayonnaise_46 Start: 32053, Stop: 31880, Start Num: 33
Candidate Starts for Mayonnaise_46:
(Start: 33 @32053 has 468 MA's), (37, 32032), (46, 31969), (52, 31915), (53, 31903),

Gene: Mazhar510_47 Start: 32054, Stop: 31881, Start Num: 33
Candidate Starts for Mazhar510_47:
(Start: 33 @32054 has 468 MA's), (37, 32033), (46, 31970), (52, 31916), (53, 31904),

Gene: McFly_50 Start: 31346, Stop: 31137, Start Num: 33
Candidate Starts for McFly_50:
(21, 31454), (Start: 33 @31346 has 468 MA's), (Start: 35 @31328 has 1 MA's), (39, 31304), (55, 31187),

Gene: Medusa_47 Start: 32052, Stop: 31879, Start Num: 33
Candidate Starts for Medusa_47:
(Start: 33 @32052 has 468 MA's), (37, 32031), (46, 31968), (52, 31914), (53, 31902),

Gene: MeeZee_47 Start: 32050, Stop: 31877, Start Num: 33
Candidate Starts for MeeZee_47:
(Start: 33 @32050 has 468 MA's), (37, 32029), (46, 31966), (52, 31912), (53, 31900),

Gene: MegTheThird_47 Start: 31902, Stop: 31672, Start Num: 33
Candidate Starts for MegTheThird_47:
(21, 32004), (23, 31992), (Start: 33 @31902 has 468 MA's), (37, 31878), (43, 31842), (55, 31749),

Gene: Melvin_49 Start: 32048, Stop: 31875, Start Num: 33

Candidate Starts for Melvin_49:
(Start: 33 @32048 has 468 MA's), (37, 32027), (46, 31964), (52, 31910), (53, 31898),

Gene: Microwolf_51 Start: 32490, Stop: 32302, Start Num: 33
Candidate Starts for Microwolf_51:
(Start: 33 @32490 has 468 MA's), (39, 32454), (49, 32376),

Gene: MiculUcigas_48 Start: 32290, Stop: 32078, Start Num: 33
Candidate Starts for MiculUcigas_48:
(21, 32392), (23, 32380), (Start: 33 @32290 has 468 MA's), (55, 32134),

Gene: Miko_45 Start: 32443, Stop: 32240, Start Num: 33
Candidate Starts for Miko_45:
(Start: 33 @32443 has 468 MA's), (Start: 35 @32425 has 1 MA's), (Start: 36 @32422 has 1 MA's), (42, 32395), (55, 32287), (63, 32251),

Gene: Millski_46 Start: 32054, Stop: 31881, Start Num: 33
Candidate Starts for Millski_46:
(Start: 33 @32054 has 468 MA's), (37, 32033), (46, 31970), (52, 31916), (53, 31904),

Gene: MinecraftSteve_51 Start: 30817, Stop: 30590, Start Num: 32
Candidate Starts for MinecraftSteve_51:
(4, 31162), (Start: 32 @30817 has 24 MA's), (41, 30763), (42, 30760), (43, 30745),

Gene: Minispark_46 Start: 31610, Stop: 31389, Start Num: 33
Candidate Starts for Minispark_46:
(17, 31745), (20, 31721), (Start: 33 @31610 has 468 MA's), (43, 31550), (44, 31547), (55, 31457),

Gene: Miramae_46 Start: 32214, Stop: 32041, Start Num: 33
Candidate Starts for Miramae_46:
(Start: 33 @32214 has 468 MA's), (37, 32193), (52, 32076), (53, 32064),

Gene: Misomonster_52 Start: 32519, Stop: 32331, Start Num: 33
Candidate Starts for Misomonster_52:
(Start: 33 @32519 has 468 MA's), (39, 32483), (49, 32405),

Gene: MissWhite_47 Start: 30815, Stop: 30645, Start Num: 33
Candidate Starts for MissWhite_47:
(19, 30935), (Start: 33 @30815 has 468 MA's), (37, 30788), (43, 30752), (55, 30659),

Gene: MoneyMay_51 Start: 32489, Stop: 32301, Start Num: 33
Candidate Starts for MoneyMay_51:
(Start: 33 @32489 has 468 MA's), (39, 32453), (49, 32375),

Gene: Montavir_50 Start: 32490, Stop: 32302, Start Num: 33
Candidate Starts for Montavir_50:
(Start: 33 @32490 has 468 MA's), (39, 32454), (49, 32376),

Gene: Morpher26_46 Start: 32050, Stop: 31874, Start Num: 33
Candidate Starts for Morpher26_46:
(Start: 33 @32050 has 468 MA's), (46, 31963), (52, 31909), (53, 31897),

Gene: Morrow_48 Start: 32059, Stop: 31886, Start Num: 33

Candidate Starts for Morrow_48:
(Start: 33 @32059 has 468 MA's), (37, 32038), (46, 31975), (52, 31921), (53, 31909),

Gene: MuchMore_54 Start: 32481, Stop: 32293, Start Num: 33
Candidate Starts for MuchMore_54:
(Start: 33 @32481 has 468 MA's), (39, 32445), (49, 32367),

Gene: Mulciber_48 Start: 31461, Stop: 31249, Start Num: 33
Candidate Starts for Mulciber_48:
(Start: 33 @31461 has 468 MA's), (43, 31398),

Gene: Munch_49 Start: 31910, Stop: 31698, Start Num: 33
Candidate Starts for Munch_49:
(14, 32057), (Start: 33 @31910 has 468 MA's), (43, 31847),

Gene: Mundrea_46 Start: 32037, Stop: 31861, Start Num: 33
Candidate Starts for Mundrea_46:
(16, 32187), (Start: 33 @32037 has 468 MA's), (37, 32013), (52, 31896), (53, 31884),

Gene: Myxus_48 Start: 32318, Stop: 32106, Start Num: 33
Candidate Starts for Myxus_48:
(9, 32576), (10, 32570), (19, 32438), (21, 32426), (Start: 33 @32318 has 468 MA's), (43, 32261), (44, 32258), (55, 32168),

Gene: NaSiaTalie_48 Start: 32387, Stop: 32175, Start Num: 33
Candidate Starts for NaSiaTalie_48:
(21, 32489), (23, 32477), (Start: 33 @32387 has 468 MA's), (55, 32231),

Gene: Nebs_48 Start: 32053, Stop: 31880, Start Num: 33
Candidate Starts for Nebs_48:
(Start: 33 @32053 has 468 MA's), (37, 32032), (46, 31969), (52, 31915), (53, 31903),

Gene: Nebulosus_50 Start: 30852, Stop: 30622, Start Num: 32
Candidate Starts for Nebulosus_50:
(Start: 32 @30852 has 24 MA's), (41, 30798), (42, 30795), (43, 30780),

Gene: Nedarya_46 Start: 30263, Stop: 30051, Start Num: 32
Candidate Starts for Nedarya_46:
(15, 30416), (23, 30359), (Start: 32 @30263 has 24 MA's), (43, 30191), (61, 30068),

Gene: Neeharika16_49 Start: 30806, Stop: 30597, Start Num: 33
Candidate Starts for Neeharika16_49:
(21, 30914), (Start: 33 @30806 has 468 MA's), (Start: 35 @30788 has 1 MA's), (39, 30764), (55, 30647),

Gene: Nemo27_47 Start: 32052, Stop: 31879, Start Num: 33
Candidate Starts for Nemo27_47:
(Start: 33 @32052 has 468 MA's), (37, 32031), (46, 31968), (52, 31914), (53, 31902),

Gene: Newrala_50 Start: 31357, Stop: 31148, Start Num: 33
Candidate Starts for Newrala_50:
(21, 31465), (Start: 33 @31357 has 468 MA's), (Start: 35 @31339 has 1 MA's), (39, 31315), (55, 31198),

Gene: Noelle_47 Start: 32339, Stop: 32163, Start Num: 33
Candidate Starts for Noelle_47:
(7, 32636), (16, 32489), (Start: 33 @32339 has 468 MA's), (37, 32315), (46, 32252), (52, 32198), (53, 32186),

Gene: NorthStar_46 Start: 32053, Stop: 31880, Start Num: 33
Candidate Starts for NorthStar_46:
(Start: 33 @32053 has 468 MA's), (37, 32032), (46, 31969), (52, 31915), (53, 31903),

Gene: Northrop_47 Start: 32049, Stop: 31876, Start Num: 33
Candidate Starts for Northrop_47:
(Start: 33 @32049 has 468 MA's), (37, 32028), (46, 31965), (52, 31911), (53, 31899),

Gene: NotAPhaseMom_47 Start: 32057, Stop: 31884, Start Num: 33
Candidate Starts for NotAPhaseMom_47:
(Start: 33 @32057 has 468 MA's), (37, 32036), (46, 31973), (52, 31919), (53, 31907),

Gene: NothingSpecial_46 Start: 32902, Stop: 32702, Start Num: 33
Candidate Starts for NothingSpecial_46:
(19, 33016), (21, 33004), (23, 32992), (Start: 33 @32902 has 468 MA's), (42, 32854), (45, 32818), (55, 32746),

Gene: Nyxis_47 Start: 31943, Stop: 31770, Start Num: 33
Candidate Starts for Nyxis_47:
(Start: 33 @31943 has 468 MA's), (37, 31922), (46, 31859), (52, 31805), (53, 31793),

Gene: OKaNui_47 Start: 32103, Stop: 31930, Start Num: 33
Candidate Starts for OKaNui_47:
(Start: 33 @32103 has 468 MA's), (37, 32082), (46, 32019), (52, 31965), (53, 31953),

Gene: Obama12_48 Start: 32477, Stop: 32304, Start Num: 33
Candidate Starts for Obama12_48:
(Start: 33 @32477 has 468 MA's), (46, 32393), (52, 32339), (53, 32327),

Gene: Odin_47 Start: 31075, Stop: 30872, Start Num: 33
Candidate Starts for Odin_47:
(Start: 33 @31075 has 468 MA's), (Start: 35 @31057 has 1 MA's), (40, 31033), (55, 30919),

Gene: Ohfah_48 Start: 32053, Stop: 31880, Start Num: 33
Candidate Starts for Ohfah_48:
(Start: 33 @32053 has 468 MA's), (37, 32032), (46, 31969), (52, 31915), (53, 31903),

Gene: OlanP_50 Start: 32559, Stop: 32371, Start Num: 33
Candidate Starts for OlanP_50:
(Start: 33 @32559 has 468 MA's), (39, 32523), (49, 32445),

Gene: Ollie_51 Start: 32360, Stop: 32172, Start Num: 33
Candidate Starts for Ollie_51:
(Start: 33 @32360 has 468 MA's), (39, 32324), (49, 32246),

Gene: Onglai_47 Start: 30659, Stop: 30447, Start Num: 33
Candidate Starts for Onglai_47:

(9, 30917), (10, 30911), (19, 30779), (21, 30767), (Start: 33 @30659 has 468 MA's), (43, 30602), (44, 30599), (55, 30509),

Gene: Oofda_50 Start: 30708, Stop: 30481, Start Num: 32
Candidate Starts for Oofda_50:
(Start: 32 @30708 has 24 MA's), (41, 30654), (42, 30651), (43, 30636),

Gene: Orange_48 Start: 31459, Stop: 31247, Start Num: 33
Candidate Starts for Orange_48:
(Start: 33 @31459 has 468 MA's), (43, 31396),

Gene: P28Green_52 Start: 32492, Stop: 32304, Start Num: 33
Candidate Starts for P28Green_52:
(Start: 33 @32492 has 468 MA's), (39, 32456), (49, 32378),

Gene: PGHhamlin_53 Start: 32481, Stop: 32293, Start Num: 33
Candidate Starts for PGHhamlin_53:
(Start: 33 @32481 has 468 MA's), (39, 32445), (49, 32367),

Gene: PackMan_47 Start: 32318, Stop: 32106, Start Num: 33
Candidate Starts for PackMan_47:
(9, 32576), (10, 32570), (19, 32438), (21, 32426), (Start: 33 @32318 has 468 MA's), (43, 32261), (44, 32258), (55, 32168),

Gene: PainterBoy_49 Start: 32003, Stop: 31794, Start Num: 33
Candidate Starts for PainterBoy_49:
(Start: 33 @32003 has 468 MA's), (41, 31955), (43, 31937), (55, 31850),

Gene: Palestino_46 Start: 32053, Stop: 31880, Start Num: 33
Candidate Starts for Palestino_46:
(Start: 33 @32053 has 468 MA's), (37, 32032), (46, 31969), (52, 31915), (53, 31903),

Gene: Pawn_51 Start: 32393, Stop: 32205, Start Num: 33
Candidate Starts for Pawn_51:
(Start: 33 @32393 has 468 MA's), (39, 32357), (49, 32279),

Gene: Peaches_47 Start: 32052, Stop: 31879, Start Num: 33
Candidate Starts for Peaches_47:
(Start: 33 @32052 has 468 MA's), (37, 32031), (46, 31968), (52, 31914), (53, 31902),

Gene: Pembroke_51 Start: 32490, Stop: 32302, Start Num: 33
Candidate Starts for Pembroke_51:
(Start: 33 @32490 has 468 MA's), (39, 32454), (49, 32376),

Gene: Penny1_52 Start: 32493, Stop: 32305, Start Num: 33
Candidate Starts for Penny1_52:
(Start: 33 @32493 has 468 MA's), (39, 32457), (49, 32379),

Gene: Perplexer_46 Start: 32026, Stop: 31850, Start Num: 33
Candidate Starts for Perplexer_46:
(Start: 33 @32026 has 468 MA's), (46, 31939), (52, 31885), (53, 31873),

Gene: PeterPeter_47 Start: 32050, Stop: 31877, Start Num: 33

Candidate Starts for PeterPeter_47:
(Start: 33 @32050 has 468 MA's), (37, 32029), (46, 31966), (52, 31912), (53, 31900),

Gene: Petersenfast_48 Start: 31466, Stop: 31254, Start Num: 33
Candidate Starts for Petersenfast_48:
(Start: 33 @31466 has 468 MA's), (43, 31403),

Gene: PetiteSangsue_46 Start: 32029, Stop: 31853, Start Num: 33
Candidate Starts for PetiteSangsue_46:
(Start: 33 @32029 has 468 MA's), (46, 31942), (52, 31888), (53, 31876),

Gene: Ph8s_50 Start: 31708, Stop: 31499, Start Num: 33
Candidate Starts for Ph8s_50:
(21, 31816), (23, 31804), (Start: 33 @31708 has 468 MA's), (37, 31681), (41, 31663), (43, 31645), (44, 31642), (55, 31552),

Gene: Phacado_47 Start: 32052, Stop: 31879, Start Num: 33
Candidate Starts for Phacado_47:
(Start: 33 @32052 has 468 MA's), (37, 32031), (46, 31968), (52, 31914), (53, 31902),

Gene: Phaded_49 Start: 33539, Stop: 33336, Start Num: 33
Candidate Starts for Phaded_49:
(28, 33590), (Start: 33 @33539 has 468 MA's), (Start: 35 @33521 has 1 MA's), (Start: 36 @33518 has 1 MA's), (39, 33500), (40, 33497), (55, 33383),

Gene: Phaeder_48 Start: 32318, Stop: 32106, Start Num: 33
Candidate Starts for Phaeder_48:
(9, 32576), (10, 32570), (19, 32438), (21, 32426), (Start: 33 @32318 has 468 MA's), (43, 32261), (44, 32258), (55, 32168),

Gene: Pharaoh_42 Start: 31876, Stop: 31682, Start Num: 34
Candidate Starts for Pharaoh_42:
(Start: 34 @31876 has 4 MA's), (43, 31816), (52, 31738), (55, 31723),

Gene: Phelipe_48 Start: 32053, Stop: 31880, Start Num: 33
Candidate Starts for Phelipe_48:
(Start: 33 @32053 has 468 MA's), (37, 32032), (46, 31969), (52, 31915), (53, 31903),

Gene: Phighter1804_47 Start: 32119, Stop: 31943, Start Num: 33
Candidate Starts for Phighter1804_47:
(16, 32269), (Start: 33 @32119 has 468 MA's), (37, 32095), (52, 31978), (53, 31966),

Gene: PhishRPhriends_49 Start: 31567, Stop: 31379, Start Num: 33
Candidate Starts for PhishRPhriends_49:
(Start: 33 @31567 has 468 MA's), (39, 31531), (49, 31453),

Gene: Phlei_37 Start: 31812, Stop: 31606, Start Num: 33
Candidate Starts for Phlei_37:
(Start: 33 @31812 has 468 MA's), (50, 31692), (51, 31674), (55, 31656),

Gene: Phoebe_52 Start: 32482, Stop: 32294, Start Num: 33
Candidate Starts for Phoebe_52:
(Start: 33 @32482 has 468 MA's), (39, 32446), (49, 32368),

Gene: Phonnegut_48 Start: 32367, Stop: 32155, Start Num: 33
Candidate Starts for Phonnegut_48:
(9, 32625), (10, 32619), (19, 32487), (21, 32475), (Start: 33 @32367 has 468 MA's), (43, 32310), (44, 32307), (55, 32217),

Gene: Phontbonne_47 Start: 31944, Stop: 31771, Start Num: 33
Candidate Starts for Phontbonne_47:
(Start: 33 @31944 has 468 MA's), (37, 31923), (46, 31860), (52, 31806), (53, 31794),

Gene: Phoxy_51 Start: 32517, Stop: 32329, Start Num: 33
Candidate Starts for Phoxy_51:
(Start: 33 @32517 has 468 MA's), (39, 32481), (49, 32403),

Gene: Phranny_52 Start: 32375, Stop: 32187, Start Num: 33
Candidate Starts for Phranny_52:
(Start: 33 @32375 has 468 MA's), (39, 32339), (49, 32261),

Gene: Pioneer_48 Start: 32367, Stop: 32155, Start Num: 33
Candidate Starts for Pioneer_48:
(9, 32625), (10, 32619), (19, 32487), (21, 32475), (Start: 33 @32367 has 468 MA's), (43, 32310), (44, 32307), (55, 32217),

Gene: Pipcraft_45 Start: 32053, Stop: 31880, Start Num: 33
Candidate Starts for Pipcraft_45:
(Start: 33 @32053 has 468 MA's), (37, 32032), (46, 31969), (52, 31915), (53, 31903),

Gene: Piro94_48 Start: 32731, Stop: 32528, Start Num: 33
Candidate Starts for Piro94_48:
(21, 32833), (23, 32821), (Start: 33 @32731 has 468 MA's), (Start: 35 @32713 has 1 MA's), (46, 32644), (55, 32575), (62, 32551),

Gene: Pmask_50 Start: 31358, Stop: 31149, Start Num: 33
Candidate Starts for Pmask_50:
(21, 31466), (Start: 33 @31358 has 468 MA's), (Start: 35 @31340 has 1 MA's), (39, 31316), (55, 31199),

Gene: Polymorphads_48 Start: 32046, Stop: 31873, Start Num: 33
Candidate Starts for Polymorphads_48:
(Start: 33 @32046 has 468 MA's), (37, 32025), (46, 31962), (52, 31908), (53, 31896),

Gene: Polyphemus_51 Start: 31501, Stop: 31292, Start Num: 33
Candidate Starts for Polyphemus_51:
(Start: 33 @31501 has 468 MA's), (Start: 35 @31483 has 1 MA's), (39, 31459), (55, 31342),

Gene: Pomar16_50 Start: 32153, Stop: 31947, Start Num: 33
Candidate Starts for Pomar16_50:
(Start: 33 @32153 has 468 MA's), (41, 32105), (55, 31994),

Gene: PotatoSplit_53 Start: 32493, Stop: 32305, Start Num: 33
Candidate Starts for PotatoSplit_53:
(Start: 33 @32493 has 468 MA's), (39, 32457), (49, 32379),

Gene: Power_47 Start: 32356, Stop: 32147, Start Num: 33
Candidate Starts for Power_47:
(19, 32470), (21, 32458), (Start: 33 @32356 has 468 MA's), (55, 32200),

Gene: Priamo_51 Start: 30975, Stop: 30766, Start Num: 33
Candidate Starts for Priamo_51:
(Start: 33 @30975 has 468 MA's), (Start: 35 @30957 has 1 MA's), (39, 30933), (55, 30816),

Gene: Priya_48 Start: 32385, Stop: 32173, Start Num: 33
Candidate Starts for Priya_48:
(9, 32643), (10, 32637), (19, 32505), (21, 32493), (Start: 33 @32385 has 468 MA's), (43, 32328), (44, 32325), (55, 32235),

Gene: Prudy_47 Start: 32829, Stop: 32629, Start Num: 33
Candidate Starts for Prudy_47:
(Start: 33 @32829 has 468 MA's), (42, 32781), (45, 32745), (55, 32673),

Gene: Pukovnik_47 Start: 33141, Stop: 32941, Start Num: 33
Candidate Starts for Pukovnik_47:
(21, 33243), (Start: 33 @33141 has 468 MA's), (Start: 36 @33120 has 1 MA's), (39, 33102), (40, 33099), (46, 33054), (55, 32985),

Gene: Pumbaa_47 Start: 31998, Stop: 31825, Start Num: 33
Candidate Starts for Pumbaa_47:
(Start: 33 @31998 has 468 MA's), (37, 31977), (46, 31914), (52, 31860), (53, 31848),

Gene: PurpleHaze_51 Start: 32388, Stop: 32200, Start Num: 33
Candidate Starts for PurpleHaze_51:
(Start: 33 @32388 has 468 MA's), (39, 32352), (49, 32274),

Gene: Qobbit_48 Start: 32347, Stop: 32135, Start Num: 33
Candidate Starts for Qobbit_48:
(9, 32605), (10, 32599), (19, 32467), (21, 32455), (Start: 33 @32347 has 468 MA's), (43, 32290), (44, 32287), (55, 32197),

Gene: QueenB2_47 Start: 32316, Stop: 32107, Start Num: 33
Candidate Starts for QueenB2_47:
(19, 32430), (21, 32418), (Start: 33 @32316 has 468 MA's), (43, 32253), (55, 32160),

Gene: QueenBeesly_48 Start: 32303, Stop: 32094, Start Num: 33
Candidate Starts for QueenBeesly_48:
(19, 32417), (21, 32405), (Start: 33 @32303 has 468 MA's), (55, 32147),

Gene: Quokka_46 Start: 31270, Stop: 31082, Start Num: 36
Candidate Starts for Quokka_46:
(14, 31444), (Start: 33 @31291 has 468 MA's), (Start: 36 @31270 has 1 MA's), (55, 31132),

Gene: Rahalelujah_47 Start: 31625, Stop: 31404, Start Num: 33
Candidate Starts for Rahalelujah_47:
(17, 31760), (20, 31736), (Start: 33 @31625 has 468 MA's), (43, 31565), (44, 31562), (55, 31472),

Gene: Ravana_52 Start: 31445, Stop: 31218, Start Num: 32
Candidate Starts for Ravana_52:

(Start: 32 @31445 has 24 MA's), (41, 31391), (42, 31388), (43, 31373),

Gene: ReMo_50 Start: 30853, Stop: 30623, Start Num: 32
Candidate Starts for ReMo_50:
(Start: 32 @30853 has 24 MA's), (41, 30799), (42, 30796), (43, 30781),

Gene: Reba_51 Start: 32048, Stop: 31860, Start Num: 33
Candidate Starts for Reba_51:
(Start: 33 @32048 has 468 MA's), (39, 32012), (49, 31934),

Gene: RedRock_50 Start: 33508, Stop: 33305, Start Num: 33
Candidate Starts for RedRock_50:
(Start: 33 @33508 has 468 MA's), (42, 33460), (55, 33352),

Gene: Refuge_47 Start: 33529, Stop: 33323, Start Num: 33
Candidate Starts for Refuge_47:
(21, 33637), (Start: 33 @33529 has 468 MA's), (37, 33502), (40, 33487), (43, 33466), (44, 33463), (50, 33409), (55, 33373),

Gene: Relief_46 Start: 32050, Stop: 31877, Start Num: 33
Candidate Starts for Relief_46:
(Start: 33 @32050 has 468 MA's), (37, 32029), (46, 31966), (52, 31912), (53, 31900),

Gene: Remus_50 Start: 30533, Stop: 30306, Start Num: 32
Candidate Starts for Remus_50:
(4, 30875), (Start: 32 @30533 has 24 MA's), (41, 30479), (42, 30476), (43, 30461),

Gene: Retro23_49 Start: 32710, Stop: 32501, Start Num: 33
Candidate Starts for Retro23_49:
(19, 32824), (21, 32812), (Start: 33 @32710 has 468 MA's), (55, 32554),

Gene: Rifter_51 Start: 30909, Stop: 30703, Start Num: 33
Candidate Starts for Rifter_51:
(21, 31017), (Start: 33 @30909 has 468 MA's), (39, 30870), (42, 30861), (43, 30846), (55, 30753),

Gene: RockieBear_47 Start: 32053, Stop: 31880, Start Num: 33
Candidate Starts for RockieBear_47:
(Start: 33 @32053 has 468 MA's), (37, 32032), (46, 31969), (52, 31915), (53, 31903),

Gene: Rocksand_47 Start: 32049, Stop: 31876, Start Num: 33
Candidate Starts for Rocksand_47:
(Start: 33 @32049 has 468 MA's), (37, 32028), (46, 31965), (52, 31911), (53, 31899),

Gene: Roksolana_51 Start: 31394, Stop: 31185, Start Num: 33
Candidate Starts for Roksolana_51:
(Start: 33 @31394 has 468 MA's), (Start: 35 @31376 has 1 MA's), (39, 31352), (55, 31235),

Gene: Romney_47 Start: 32050, Stop: 31877, Start Num: 33
Candidate Starts for Romney_47:
(Start: 33 @32050 has 468 MA's), (37, 32029), (46, 31966), (52, 31912), (53, 31900),

Gene: Roosevelt_46 Start: 32055, Stop: 31882, Start Num: 33
Candidate Starts for Roosevelt_46:

(Start: 33 @32055 has 468 MA's), (37, 32034), (46, 31971), (52, 31917), (53, 31905),

Gene: Rosa24_46 Start: 32084, Stop: 31911, Start Num: 33
Candidate Starts for Rosa24_46:
(Start: 33 @32084 has 468 MA's), (37, 32063), (46, 32000), (52, 31946), (53, 31934),

Gene: Rosalind_49 Start: 30736, Stop: 30509, Start Num: 32
Candidate Starts for Rosalind_49:
(4, 31081), (Start: 32 @30736 has 24 MA's), (41, 30682), (42, 30679), (43, 30664),

Gene: Ruin_47 Start: 32046, Stop: 31873, Start Num: 33
Candidate Starts for Ruin_47:
(Start: 33 @32046 has 468 MA's), (37, 32025), (46, 31962), (52, 31908), (53, 31896),

Gene: Rummer_50 Start: 32520, Stop: 32332, Start Num: 33
Candidate Starts for Rummer_50:
(Start: 33 @32520 has 468 MA's), (39, 32484), (49, 32406),

Gene: RyeScarlet_48 Start: 32342, Stop: 32130, Start Num: 33
Candidate Starts for RyeScarlet_48:
(9, 32600), (10, 32594), (19, 32462), (21, 32450), (Start: 33 @32342 has 468 MA's), (43, 32285), (44, 32282), (55, 32192),

Gene: Sabertooth_47 Start: 32055, Stop: 31882, Start Num: 33
Candidate Starts for Sabertooth_47:
(Start: 33 @32055 has 468 MA's), (37, 32034), (46, 31971), (52, 31917), (53, 31905),

Gene: Sabia_51 Start: 32483, Stop: 32295, Start Num: 33
Candidate Starts for Sabia_51:
(Start: 33 @32483 has 468 MA's), (39, 32447), (49, 32369),

Gene: Sabinator_50 Start: 32488, Stop: 32300, Start Num: 33
Candidate Starts for Sabinator_50:
(Start: 33 @32488 has 468 MA's), (39, 32452), (49, 32374),

Gene: Sachima_48 Start: 32252, Stop: 32040, Start Num: 33
Candidate Starts for Sachima_48:
(9, 32510), (10, 32504), (19, 32372), (21, 32360), (Start: 33 @32252 has 468 MA's), (43, 32195), (44, 32192), (55, 32102),

Gene: Salz_47 Start: 31437, Stop: 31225, Start Num: 33
Candidate Starts for Salz_47:
(Start: 33 @31437 has 468 MA's), (43, 31374),

Gene: Saskia_49 Start: 31431, Stop: 31219, Start Num: 33
Candidate Starts for Saskia_49:
(25, 31503), (Start: 33 @31431 has 468 MA's), (43, 31368),

Gene: Scamp_47 Start: 32055, Stop: 31882, Start Num: 33
Candidate Starts for Scamp_47:
(Start: 33 @32055 has 468 MA's), (37, 32034), (46, 31971), (52, 31917), (53, 31905),

Gene: Scherzo_48 Start: 32556, Stop: 32344, Start Num: 33

Candidate Starts for Scherzo_48:
(9, 32814), (10, 32808), (19, 32676), (21, 32664), (Start: 33 @32556 has 468 MA's), (43, 32499), (44, 32496), (55, 32406),

Gene: SemperFi_49 Start: 32571, Stop: 32362, Start Num: 33
Candidate Starts for SemperFi_49:
(19, 32685), (21, 32673), (Start: 33 @32571 has 468 MA's), (55, 32415),

Gene: SenorClean_47 Start: 32053, Stop: 31880, Start Num: 33
Candidate Starts for SenorClean_47:
(Start: 33 @32053 has 468 MA's), (37, 32032), (46, 31969), (52, 31915), (53, 31903),

Gene: Serenity_48 Start: 31452, Stop: 31246, Start Num: 33
Candidate Starts for Serenity_48:
(14, 31605), (Start: 33 @31452 has 468 MA's), (Start: 36 @31431 has 1 MA's), (55, 31296),

Gene: Shaka_47 Start: 32050, Stop: 31877, Start Num: 33
Candidate Starts for Shaka_47:
(Start: 33 @32050 has 468 MA's), (37, 32029), (46, 31966), (52, 31912), (53, 31900),

Gene: Sham4_48 Start: 31465, Stop: 31253, Start Num: 33
Candidate Starts for Sham4_48:
(Start: 33 @31465 has 468 MA's), (43, 31402),

Gene: ShayRa_52 Start: 31057, Stop: 30827, Start Num: 32
Candidate Starts for ShayRa_52:
(Start: 32 @31057 has 24 MA's), (41, 31003), (42, 31000), (43, 30985),

Gene: SheaKeira_47 Start: 31905, Stop: 31681, Start Num: 33
Candidate Starts for SheaKeira_47:
(6, 32196), (11, 32154), (12, 32124), (23, 32001), (Start: 33 @31905 has 468 MA's), (37, 31884), (43, 31848), (44, 31845), (55, 31755),

Gene: SheldonCooper_49 Start: 32476, Stop: 32303, Start Num: 33
Candidate Starts for SheldonCooper_49:
(Start: 33 @32476 has 468 MA's), (46, 32392), (52, 32338), (53, 32326),

Gene: Shygu2_46 Start: 32029, Stop: 31853, Start Num: 33
Candidate Starts for Shygu2_46:
(7, 32326), (16, 32179), (Start: 33 @32029 has 468 MA's), (37, 32005), (46, 31942), (52, 31888), (53, 31876),

Gene: Skadoosh_48 Start: 32050, Stop: 31877, Start Num: 33
Candidate Starts for Skadoosh_48:
(Start: 33 @32050 has 468 MA's), (37, 32029), (46, 31966), (52, 31912), (53, 31900),

Gene: Skipitt_46 Start: 32047, Stop: 31874, Start Num: 33
Candidate Starts for Skipitt_46:
(31, 32059), (Start: 33 @32047 has 468 MA's), (37, 32026), (46, 31963), (52, 31909), (53, 31897),

Gene: Sknot_48 Start: 32390, Stop: 32178, Start Num: 33
Candidate Starts for Sknot_48:
(21, 32492), (23, 32480), (Start: 33 @32390 has 468 MA's), (55, 32234),

Gene: Smeagan_51 Start: 33023, Stop: 32814, Start Num: 33
Candidate Starts for Smeagan_51:
(19, 33137), (21, 33125), (Start: 33 @33023 has 468 MA's), (55, 32867),

Gene: SmellyB_50 Start: 31346, Stop: 31137, Start Num: 33
Candidate Starts for SmellyB_50:
(21, 31454), (Start: 33 @31346 has 468 MA's), (Start: 35 @31328 has 1 MA's), (39, 31304), (55, 31187),

Gene: SnapTap_48 Start: 32382, Stop: 32173, Start Num: 33
Candidate Starts for SnapTap_48:
(19, 32496), (21, 32484), (Start: 33 @32382 has 468 MA's), (55, 32226),

Gene: Snape_48 Start: 31463, Stop: 31251, Start Num: 33
Candidate Starts for Snape_48:
(Start: 33 @31463 has 468 MA's), (43, 31400),

Gene: Snickers_51 Start: 32463, Stop: 32275, Start Num: 33
Candidate Starts for Snickers_51:
(Start: 33 @32463 has 468 MA's), (39, 32427), (49, 32349),

Gene: SoYo_51 Start: 32401, Stop: 32213, Start Num: 33
Candidate Starts for SoYo_51:
(Start: 33 @32401 has 468 MA's), (39, 32365), (49, 32287),

Gene: SoilDragon_51 Start: 31937, Stop: 31749, Start Num: 33
Candidate Starts for SoilDragon_51:
(Start: 33 @31937 has 468 MA's), (39, 31901), (49, 31823),

Gene: SororFago_51 Start: 33958, Stop: 33743, Start Num: 33
Candidate Starts for SororFago_51:
(Start: 33 @33958 has 468 MA's), (46, 33868), (47, 33865), (55, 33799),

Gene: Soshari_53 Start: 32516, Stop: 32328, Start Num: 33
Candidate Starts for Soshari_53:
(Start: 33 @32516 has 468 MA's), (39, 32480), (49, 32402),

Gene: Soups_51 Start: 31056, Stop: 30826, Start Num: 32
Candidate Starts for Soups_51:
(Start: 32 @31056 has 24 MA's), (41, 31002), (42, 30999), (43, 30984),

Gene: Sparxx_48 Start: 32048, Stop: 31875, Start Num: 33
Candidate Starts for Sparxx_48:
(Start: 33 @32048 has 468 MA's), (37, 32027), (46, 31964), (52, 31910), (53, 31898),

Gene: Spike509_51 Start: 32517, Stop: 32329, Start Num: 33
Candidate Starts for Spike509_51:
(Start: 33 @32517 has 468 MA's), (39, 32481), (49, 32403),

Gene: Spino_46 Start: 32053, Stop: 31880, Start Num: 33
Candidate Starts for Spino_46:
(Start: 33 @32053 has 468 MA's), (37, 32032), (46, 31969), (52, 31915), (53, 31903),

Gene: Spouty_48 Start: 32384, Stop: 32172, Start Num: 33
Candidate Starts for Spouty_48:
(9, 32642), (10, 32636), (19, 32504), (21, 32492), (Start: 33 @32384 has 468 MA's), (43, 32327), (44, 32324), (55, 32234),

Gene: Stagni_51 Start: 32492, Stop: 32304, Start Num: 33
Candidate Starts for Stagni_51:
(Start: 33 @32492 has 468 MA's), (39, 32456), (49, 32378),

Gene: StarStuff_50 Start: 32115, Stop: 31909, Start Num: 33
Candidate Starts for StarStuff_50:
(Start: 33 @32115 has 468 MA's), (41, 32067), (55, 31956),

Gene: Stasia_46 Start: 31928, Stop: 31752, Start Num: 33
Candidate Starts for Stasia_46:
(24, 32021), (Start: 33 @31928 has 468 MA's), (37, 31904), (46, 31841), (52, 31787), (53, 31775),

Gene: SteMason_46 Start: 32050, Stop: 31877, Start Num: 33
Candidate Starts for SteMason_46:
(Start: 33 @32050 has 468 MA's), (37, 32029), (46, 31966), (52, 31912), (53, 31900),

Gene: Steamy_44 Start: 31813, Stop: 31595, Start Num: 33
Candidate Starts for Steamy_44:
(Start: 33 @31813 has 468 MA's), (Start: 36 @31792 has 1 MA's), (41, 31765), (46, 31723), (47, 31720),

Gene: StepMih_51 Start: 32483, Stop: 32295, Start Num: 33
Candidate Starts for StepMih_51:
(Start: 33 @32483 has 468 MA's), (39, 32447), (49, 32369),

Gene: Stink_47 Start: 32494, Stop: 32321, Start Num: 33
Candidate Starts for Stink_47:
(Start: 33 @32494 has 468 MA's), (37, 32473), (52, 32356), (53, 32344),

Gene: Strosahl_50 Start: 30533, Stop: 30306, Start Num: 32
Candidate Starts for Strosahl_50:
(4, 30875), (Start: 32 @30533 has 24 MA's), (41, 30479), (42, 30476), (43, 30461),

Gene: Sultana_47 Start: 32053, Stop: 31880, Start Num: 33
Candidate Starts for Sultana_47:
(Start: 33 @32053 has 468 MA's), (37, 32032), (46, 31969), (52, 31915), (53, 31903),

Gene: Sunhee_51 Start: 32274, Stop: 32071, Start Num: 33
Candidate Starts for Sunhee_51:
(Start: 33 @32274 has 468 MA's), (46, 32187), (55, 32118),

Gene: SuperAwesome_50 Start: 31357, Stop: 31148, Start Num: 33
Candidate Starts for SuperAwesome_50:
(21, 31465), (Start: 33 @31357 has 468 MA's), (Start: 35 @31339 has 1 MA's), (39, 31315), (55, 31198),

Gene: SuperCallie99_49 Start: 31230, Stop: 31021, Start Num: 33

Candidate Starts for SuperCallie99_49:
(21, 31338), (Start: 33 @31230 has 468 MA's), (Start: 35 @31212 has 1 MA's), (39, 31188), (55, 31071),

Gene: Superchunk_47 Start: 30926, Stop: 30723, Start Num: 33
Candidate Starts for Superchunk_47:
(Start: 33 @30926 has 468 MA's), (Start: 35 @30908 has 1 MA's), (40, 30884), (55, 30770),

Gene: SweetiePie_48 Start: 32511, Stop: 32302, Start Num: 33
Candidate Starts for SweetiePie_48:
(19, 32625), (21, 32613), (Start: 33 @32511 has 468 MA's), (55, 32355),

Gene: SwirlSquare_51 Start: 31593, Stop: 31390, Start Num: 33
Candidate Starts for SwirlSquare_51:
(21, 31701), (23, 31689), (Start: 33 @31593 has 468 MA's), (43, 31530), (44, 31527), (55, 31437),

Gene: Switzerland_50 Start: 30916, Stop: 30689, Start Num: 32
Candidate Starts for Switzerland_50:
(4, 31261), (Start: 32 @30916 has 24 MA's), (41, 30862), (42, 30859), (43, 30844),

Gene: Taquarus_47 Start: 32056, Stop: 31883, Start Num: 33
Candidate Starts for Taquarus_47:
(Start: 33 @32056 has 468 MA's), (37, 32035), (46, 31972), (52, 31918), (53, 31906), (57, 31897),

Gene: TarsusIV_46 Start: 32170, Stop: 31961, Start Num: 33
Candidate Starts for TarsusIV_46:
(30, 32188), (Start: 33 @32170 has 468 MA's), (Start: 35 @32152 has 1 MA's), (55, 32014), (60, 31987),

Gene: Taurus_52 Start: 32489, Stop: 32301, Start Num: 33
Candidate Starts for Taurus_52:
(Start: 33 @32489 has 468 MA's), (39, 32453), (49, 32375),

Gene: Temprado_51 Start: 31507, Stop: 31301, Start Num: 33
Candidate Starts for Temprado_51:
(21, 31615), (Start: 33 @31507 has 468 MA's), (39, 31468), (42, 31459), (43, 31444), (55, 31351),

Gene: Terrific_49 Start: 32744, Stop: 32532, Start Num: 33
Candidate Starts for Terrific_49:
(21, 32846), (23, 32834), (Start: 33 @32744 has 468 MA's), (55, 32588),

Gene: Thanksgivukkah_46 Start: 32051, Stop: 31878, Start Num: 33
Candidate Starts for Thanksgivukkah_46:
(Start: 33 @32051 has 468 MA's), (37, 32030), (46, 31967), (52, 31913), (53, 31901),

Gene: Tiffany_51 Start: 32375, Stop: 32187, Start Num: 33
Candidate Starts for Tiffany_51:
(Start: 33 @32375 has 468 MA's), (39, 32339), (49, 32261),

Gene: Timothy_48 Start: 31440, Stop: 31228, Start Num: 33
Candidate Starts for Timothy_48:
(Start: 33 @31440 has 468 MA's), (43, 31377),

Gene: TinaFeyge_47 Start: 32048, Stop: 31875, Start Num: 33
Candidate Starts for TinaFeyge_47:
(Start: 33 @32048 has 468 MA's), (37, 32027), (46, 31964), (52, 31910), (53, 31898),

Gene: TinyPebbles_50 Start: 32522, Stop: 32334, Start Num: 33
Candidate Starts for TinyPebbles_50:
(Start: 33 @32522 has 468 MA's), (39, 32486), (49, 32408),

Gene: TinyTimmy_48 Start: 31483, Stop: 31271, Start Num: 33
Candidate Starts for TinyTimmy_48:
(Start: 33 @31483 has 468 MA's), (43, 31420),

Gene: Tinybot_46 Start: 32080, Stop: 31907, Start Num: 33
Candidate Starts for Tinybot_46:
(Start: 33 @32080 has 468 MA's), (37, 32059), (46, 31996), (52, 31942), (53, 31930),

Gene: TiroTheta9_47 Start: 32047, Stop: 31874, Start Num: 33
Candidate Starts for TiroTheta9_47:
(Start: 33 @32047 has 468 MA's), (37, 32026), (46, 31963), (52, 31909), (53, 31897),

Gene: Toaka_47 Start: 31887, Stop: 31669, Start Num: 33
Candidate Starts for Toaka_47:
(3, 32235), (29, 31899), (Start: 33 @31887 has 468 MA's), (43, 31827), (44, 31824), (55, 31734),

Gene: Tomathan_50 Start: 32112, Stop: 31906, Start Num: 33
Candidate Starts for Tomathan_50:
(Start: 33 @32112 has 468 MA's), (41, 32064), (55, 31953),

Gene: ToneTone_47 Start: 31070, Stop: 30864, Start Num: 33
Candidate Starts for ToneTone_47:
(21, 31178), (Start: 33 @31070 has 468 MA's), (39, 31031), (42, 31022), (43, 31007), (55, 30914),

Gene: Travvers_50 Start: 32112, Stop: 31906, Start Num: 33
Candidate Starts for Travvers_50:
(Start: 33 @32112 has 468 MA's), (41, 32064), (55, 31953),

Gene: Tristan_47 Start: 33343, Stop: 33140, Start Num: 33
Candidate Starts for Tristan_47:
(5, 33664), (21, 33445), (23, 33433), (28, 33394), (Start: 33 @33343 has 468 MA's), (Start: 35 @33325 has 1 MA's), (39, 33304), (40, 33301), (55, 33187),

Gene: Trixie_46 Start: 32430, Stop: 32230, Start Num: 33
Candidate Starts for Trixie_46:
(Start: 33 @32430 has 468 MA's), (Start: 35 @32412 has 1 MA's), (42, 32382), (45, 32346), (55, 32274),

Gene: Trooper_49 Start: 32735, Stop: 32523, Start Num: 33
Candidate Starts for Trooper_49:
(21, 32837), (23, 32825), (Start: 33 @32735 has 468 MA's), (46, 32648), (55, 32579),

Gene: TroyPia_48 Start: 32051, Stop: 31878, Start Num: 33
Candidate Starts for TroyPia_48:
(Start: 33 @32051 has 468 MA's), (37, 32030), (46, 31967), (52, 31913), (53, 31901),

Gene: Tubs_48 Start: 32318, Stop: 32106, Start Num: 33
Candidate Starts for Tubs_48:
(9, 32576), (10, 32570), (19, 32438), (21, 32426), (Start: 33 @32318 has 468 MA's), (43, 32261), (44, 32258), (55, 32168),

Gene: Tucker_50 Start: 30957, Stop: 30751, Start Num: 33
Candidate Starts for Tucker_50:
(21, 31065), (Start: 33 @30957 has 468 MA's), (42, 30909), (55, 30801),

Gene: Turbido_49 Start: 32766, Stop: 32557, Start Num: 33
Candidate Starts for Turbido_49:
(19, 32880), (21, 32868), (Start: 33 @32766 has 468 MA's), (43, 32703), (55, 32610),

Gene: TygerBlood_47 Start: 32053, Stop: 31880, Start Num: 33
Candidate Starts for TygerBlood_47:
(Start: 33 @32053 has 468 MA's), (37, 32032), (46, 31969), (52, 31915), (53, 31903),

Gene: Ugenie5_45 Start: 32555, Stop: 32343, Start Num: 33
Candidate Starts for Ugenie5_45:
(9, 32813), (10, 32807), (19, 32675), (21, 32663), (Start: 33 @32555 has 468 MA's), (43, 32498), (44, 32495), (55, 32405),

Gene: Ulysses_46 Start: 31730, Stop: 31557, Start Num: 33
Candidate Starts for Ulysses_46:
(Start: 33 @31730 has 468 MA's), (37, 31709), (46, 31646), (52, 31592), (53, 31580),

Gene: Updawg_49 Start: 32631, Stop: 32419, Start Num: 33
Candidate Starts for Updawg_49:
(21, 32733), (23, 32721), (Start: 33 @32631 has 468 MA's), (55, 32475),

Gene: VA6_48 Start: 32486, Stop: 32277, Start Num: 33
Candidate Starts for VA6_48:
(2, 32870), (18, 32606), (Start: 33 @32486 has 468 MA's), (55, 32330),

Gene: VC3_51 Start: 32552, Stop: 32346, Start Num: 33
Candidate Starts for VC3_51:
(Start: 33 @32552 has 468 MA's), (44, 32483), (46, 32462), (55, 32393), (59, 32369),

Gene: Vanisoa_47 Start: 32916, Stop: 32698, Start Num: 33
Candidate Starts for Vanisoa_47:
(22, 33006), (29, 32925), (Start: 33 @32916 has 468 MA's), (43, 32856), (44, 32853), (55, 32763),

Gene: Vix_51 Start: 32572, Stop: 32384, Start Num: 33
Candidate Starts for Vix_51:
(Start: 33 @32572 has 468 MA's), (39, 32536), (49, 32458),

Gene: VohminGhazi_50 Start: 31347, Stop: 31138, Start Num: 33
Candidate Starts for VohminGhazi_50:
(21, 31455), (Start: 33 @31347 has 468 MA's), (Start: 35 @31329 has 1 MA's), (39, 31305), (55, 31188),

Gene: Waits_50 Start: 30705, Stop: 30478, Start Num: 32

Candidate Starts for Waits_50:
(4, 31050), (Start: 32 @30705 has 24 MA's), (41, 30651), (42, 30648), (43, 30633),

Gene: Wander_47 Start: 32050, Stop: 31877, Start Num: 33
Candidate Starts for Wander_47:
(Start: 33 @32050 has 468 MA's), (37, 32029), (46, 31966), (52, 31912), (53, 31900),

Gene: Warrior24_51 Start: 30915, Stop: 30685, Start Num: 32
Candidate Starts for Warrior24_51:
(4, 31260), (Start: 32 @30915 has 24 MA's), (41, 30861), (42, 30858), (43, 30843),

Gene: Watson_51 Start: 32481, Stop: 32293, Start Num: 33
Candidate Starts for Watson_51:
(Start: 33 @32481 has 468 MA's), (39, 32445), (49, 32367),

Gene: Whabigail7_49 Start: 32751, Stop: 32542, Start Num: 33
Candidate Starts for Whabigail7_49:
(19, 32865), (21, 32853), (Start: 33 @32751 has 468 MA's), (55, 32595),

Gene: WideWale_49 Start: 32631, Stop: 32419, Start Num: 33
Candidate Starts for WideWale_49:
(21, 32733), (23, 32721), (Start: 33 @32631 has 468 MA's), (55, 32475),

Gene: Wiks_49 Start: 31138, Stop: 30932, Start Num: 33
Candidate Starts for Wiks_49:
(21, 31246), (Start: 33 @31138 has 468 MA's), (39, 31099), (42, 31090), (43, 31075), (55, 30982),

Gene: Wilbur_47 Start: 32050, Stop: 31877, Start Num: 33
Candidate Starts for Wilbur_47:
(Start: 33 @32050 has 468 MA's), (37, 32029), (46, 31966), (52, 31912), (53, 31900),

Gene: Wile_46 Start: 32060, Stop: 31884, Start Num: 33
Candidate Starts for Wile_46:
(Start: 33 @32060 has 468 MA's), (46, 31973), (52, 31919), (53, 31907),

Gene: Wizard007_47 Start: 32058, Stop: 31885, Start Num: 33
Candidate Starts for Wizard007_47:
(Start: 33 @32058 has 468 MA's), (37, 32037), (46, 31974), (52, 31920), (53, 31908),

Gene: Wolpertinger_47 Start: 31466, Stop: 31254, Start Num: 33
Candidate Starts for Wolpertinger_47:
(Start: 33 @31466 has 468 MA's), (43, 31403),

Gene: Wooldri_53 Start: 32401, Stop: 32213, Start Num: 33
Candidate Starts for Wooldri_53:
(Start: 33 @32401 has 468 MA's), (39, 32365), (49, 32287),

Gene: WorldCup_46 Start: 31619, Stop: 31398, Start Num: 33
Candidate Starts for WorldCup_46:
(17, 31754), (20, 31730), (Start: 33 @31619 has 468 MA's), (43, 31559), (44, 31556), (55, 31466),

Gene: WunderPhul_50 Start: 31136, Stop: 30930, Start Num: 33
Candidate Starts for WunderPhul_50:

(21, 31244), (Start: 33 @31136 has 468 MA's), (39, 31097), (42, 31088), (43, 31073), (55, 30980),

Gene: Xena_45 Start: 32026, Stop: 31850, Start Num: 33
Candidate Starts for Xena_45:
(Start: 33 @32026 has 468 MA's), (46, 31939), (52, 31885), (53, 31873),

Gene: XianYue_47 Start: 32071, Stop: 31886, Start Num: 36
Candidate Starts for XianYue_47:
(Start: 33 @32092 has 468 MA's), (Start: 36 @32071 has 1 MA's), (39, 32053), (40, 32050), (42, 32044), (55, 31936),

Gene: Yecey3_49 Start: 31785, Stop: 31579, Start Num: 33
Candidate Starts for Yecey3_49:
(19, 31905), (21, 31893), (Start: 33 @31785 has 468 MA's), (43, 31725), (55, 31632),

Gene: YoSam321_47 Start: 32047, Stop: 31874, Start Num: 33
Candidate Starts for YoSam321_47:
(Start: 33 @32047 has 468 MA's), (37, 32026), (46, 31963), (52, 31909), (53, 31897),

Gene: Yokurt_50 Start: 31138, Stop: 30932, Start Num: 33
Candidate Starts for Yokurt_50:
(21, 31246), (Start: 33 @31138 has 468 MA's), (39, 31099), (42, 31090), (43, 31075), (55, 30982),

Gene: Zaka_50 Start: 31138, Stop: 30932, Start Num: 33
Candidate Starts for Zaka_50:
(21, 31246), (Start: 33 @31138 has 468 MA's), (39, 31099), (42, 31090), (43, 31075), (55, 30982),

Gene: Zetzy_50 Start: 32052, Stop: 31864, Start Num: 33
Candidate Starts for Zetzy_50:
(Start: 33 @32052 has 468 MA's), (39, 32016), (49, 31938),

Gene: Zimmer_45 Start: 33020, Stop: 32820, Start Num: 33
Candidate Starts for Zimmer_45:
(21, 33128), (27, 33083), (Start: 33 @33020 has 468 MA's), (37, 32993), (40, 32978), (43, 32957), (55, 32864),

Gene: Zulu_50 Start: 30938, Stop: 30732, Start Num: 33
Candidate Starts for Zulu_50:
(21, 31046), (Start: 33 @30938 has 468 MA's), (42, 30890), (55, 30782),