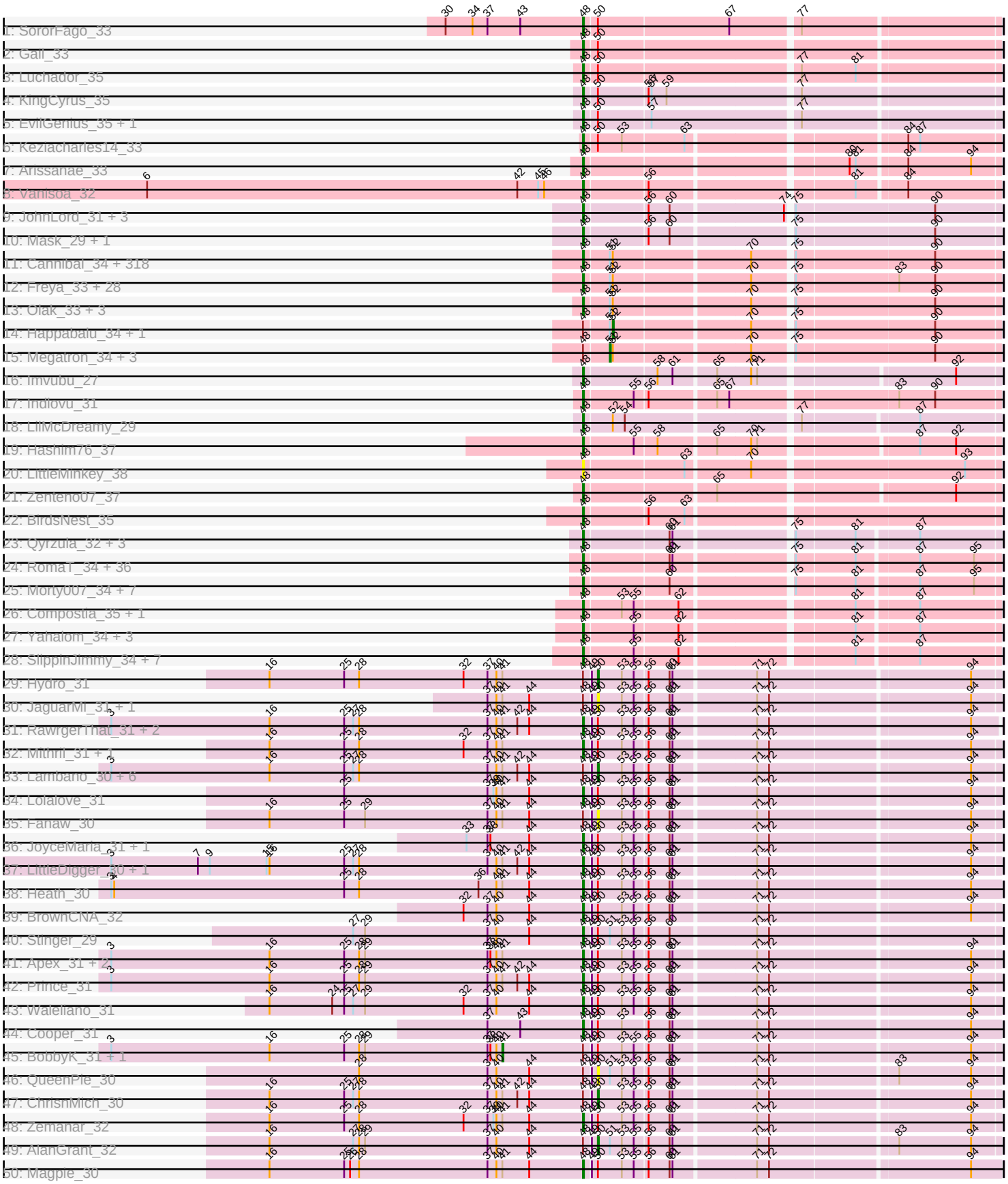
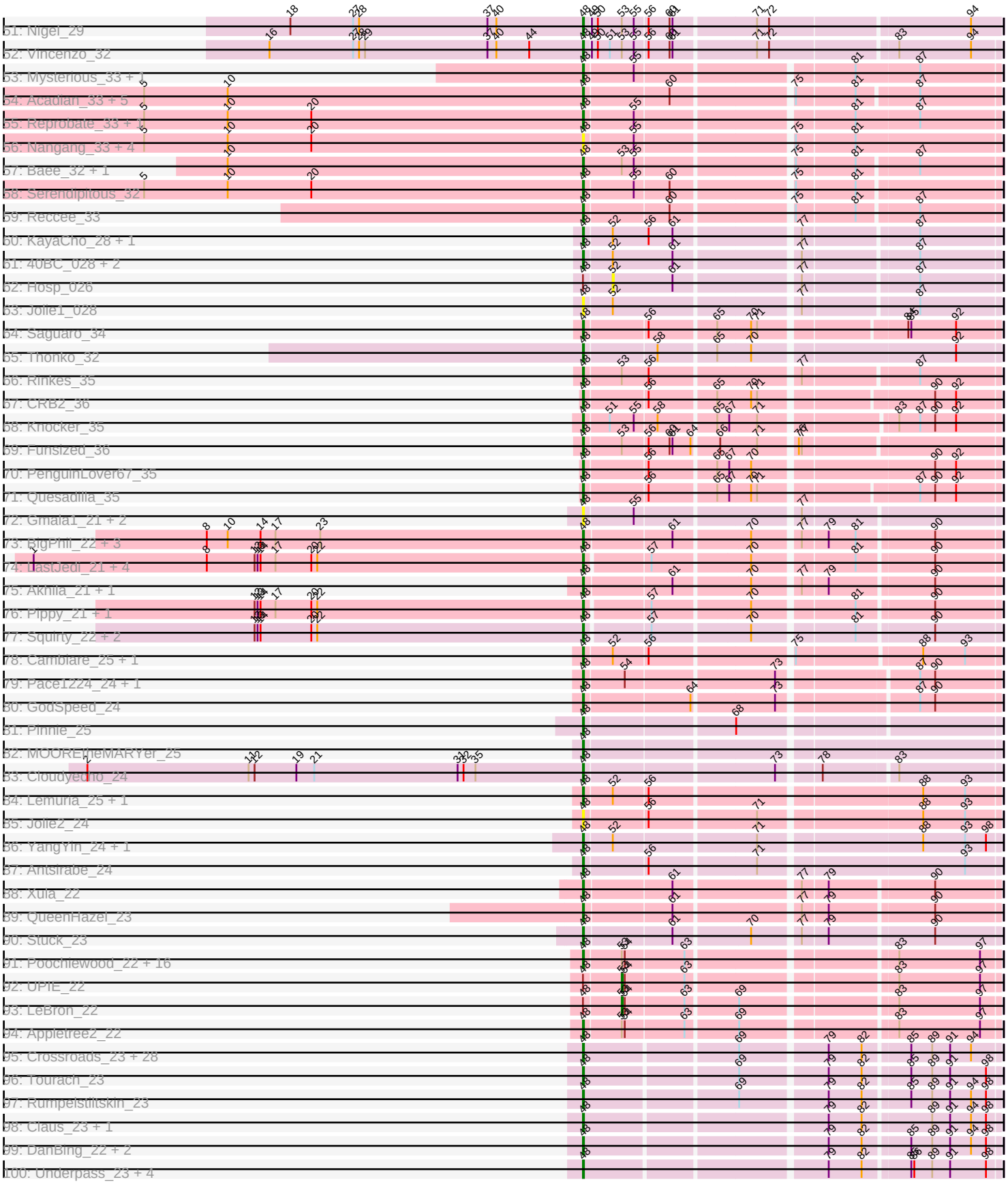
Pham 347046


1: SororFago_33
2: Gail_33
3: Luchador_35
4: KingCyrus_35
5: EvilGenius_35 + 1
6: Kezlacharles14_33
7: Arissanae_33
8: Vanisoa_32
9: JohnLord_31 + 3
10: Mask_29 + 1
11: Cannibal_34 + 318
12: Freya_33 + 28
13: Olak_33 + 3
14: Happabaiu_34 + 1
15: Megatron_34 + 3
16: Imvubu_27
17: Indiovu_31
18: LilMcDreamy_29
19: Hashim76_37
20: LittleMinkey_38
21: Zenteno07_37
22: BirdsNest_35
23: Qyrzula_32 + 3
24: RomaT_34 + 36
25: Morty007_34 + 7
26: Compostia_35 + 1
27: Yahalom_34 + 3
28: SlippinJimmy_34 + 7
29: Hydro_31
30: JaguarMI_31 + 1
31: RawrgerThat_31 + 2
32: Mithri_31 + 1
33: Lambano_30 + 6
34: Lolalove_31
35: Fanaw_30
36: JoyceMaria_31 + 1
37: LittleDigger_30 + 1
38: Heath_30
39: BrownCNA_32
40: Stinger_29
41: Apex_31 + 2
42: Prince_31
43: Waleliano_31
44: Cooper_31
45: BobbyK_31 + 1
46: QueenPie_30
47: ChrishMich_30
48: Zemanar_32
49: AlanGrant_32
50: Magpie_30

Pham 347046


51: Nigel_29
52: Vincenzo_32
53: Mysterious_33 + 1
54: Acadian_33 + 5
55: Reprobate_33 + 2
56: Nangang_33 + 4
57: Baee_32 + 1
58: Serendipitous_32
59: Reccee_33
60: KayaCho_28 + 1
61: 40BC_028 + 2
62: Hosp_026
63: Jolie1_028
64: Saguaro_34
65: Thonko_32
66: Rinkes_35
67: CRB2_36
68: Knocker_35
69: Funsized_36
70: PenguinLover67_35
71: Quesadilla_35
72: Gmala1_21 + 2
73: BigPhil_22 + 3
74: DastJedi_21 + 4
75: Akhila_21 + 1
76: Pippy_21 + 1
77: Squirty_22 + 2
78: Cambiare_25 + 1
79: Pace1224_24 + 1
80: GodSpeed_24
81: Pinnie_25
82: MOOREtheMARYer_25
83: Cloudyecho_24
84: Lemuria_25 + 1
85: Jolie2_24
86: YangYin_24 + 1
87: Antsirabe_24
88: Xtula_22
89: QueenHazel_23
90: Stuck_23
91: Poochiewood_22 + 16
92: UPIE_22
93: LeBron_22
94: Appletree2_22
95: Crossroads_23 + 28
96: Tourach_23
97: Rumpelstiltskin_23
98: Claus_23 + 1
99: DanBing_22 + 2
100: Underpass_23 + 4

Pham 347046


101: Bazzle_23 + 1
102: Rossetti_23
103: Red305_23 + 9
104: Bellis_23 + 3
105: LiyuLake_23 + 4
106: MiniLon_23 + 2
107: DuncansLeg_23 + 1
108: Douzhi_22 + 3
109: Baudelaire_24 + 1
110: RoseMarie_34
111: Nanosmite_37
112: Hanako_23 + 7
113: Shekmaggedon_23 + 4
114: PR_26 + 1
115: Megabear_26 + 1
116: P3MA_25

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 347046 Report

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

Pham number 347046 has 666 members, 86 are drafts.

Phages represented in each track:
• Track 1 : SororFago_33
• Track 2 : Gail_33
• Track 3 : Luchador_35
• Track 4 : KingCyrus_35
• Track 5 : EvilGenius_35, ChipMunk_35
• Track 6 : Keziacharles14_33
• Track 7 : Arissanae_33
• Track 8 : Vanisoa_32
• Track 9 : JohnLord_31, Caterpie_30, Mao1_28, Sejanus_29
• Track 10 : Mask_29, Dori_30
• Track 11 : Cannibal_34, Gophee_34, Kwadwo_33, Schueller_33, Lars_34, Kailash_34, KingTut_25, Manad_33, Rosebush_34, RedRaider89_35, PallasAthena_33, Mana_33, Kwksand96_33, Kaleb_34, Chute_34, Vaticameos_34, Jiraiya_33, BatteryCK_33, Robyn_33, Durga_34, Sigman_34, BlackStallion_34, Puhltonio_34, Mag7_33, UAch1_34, Mcshane_33, Mecca_33, LostAndPhound_33, Samaymay_34, Ashraf_33, Schadenfreude_33, Scrick_34, Timmi_33, MitKao_34, Haleema_33, TomBombadil_34, Bishoperium_33, Lulumae_33, Craff_34, AltPhacts_34, Phipps_34, BoogieWoogie_34, Aelin_33, Lulwa_34, Potter_33, Xavier_33, Emiris_34, Coffee_34, Cobra_34, PrinceCharming_34, Swiphy_34, FriarPreacher_34, Dingo_34, Morgushi_34, JDog_33, LeeLot_34, Murdoc_34, IsaacEli_34, HogWash_33, GreenChile_34, PinheadLarry_34, Doddsville_34, Bluephacebaby_33, Kolhan_34, Eugenia_34, CampRoach_34, Glass_34, ProfessorX_34, Pacifista_33, Chaelin_34, Roliet_34, Harvey_34, Anderson_34, Tomlarah_34, Charles1_34, Vortex_34, GeneCoco_34, Chah_35, Telesworld_33, RedMaple_33, QueenBeane_34, Omniscient_34, Fozzie_33, Jiminy_33, Banjo_33, Phareon_34, SirBeauregard_34, Kloppinator_34, Badfish_34, EmGer13_33, Lehmann_34, Held_34, OneBrain_34, Lego3393_34, Podrick_34, LilSmirk_34, FremontTroll_33, Kimbrough_34, Hekos_31, Giraffe_34, Iridessa_34, Lumine_33, Longacauda_33, DirtJuice_34, Chunky_34, Pops_34, Nyala_33, Matalotodo_34, Riggan_34, KingVeVeVe_34, ElvisPhasley_34, Triad_34, GodPhather_27, Caspiboi_33, SilverBell_34, LeiMonet_34, Inverness_34, Usavi_34, Gyarad_0034, Zelda_34, EmpTee_34, ShiVal_34, LemonSlice_34, Allegro_34, Nathan_34, Legolas_33, MRabcd_33, Cornbread_33, LuckyMarjie_33, Thora_34, Lasso_34, HighStump_33, HSavage_34, MasterPo_34, Phergie_33, Eremos_34, Basato_35, Bananafish_34, Frankicide_34, Apizium_33, Dice_33, Sheila_34, Eaglehorse_34, Boyle_34, Altwerkus_33, LasagnaCat_34, LizLemon_34, Carthage_32, Arbiter_34, JacAttac_34, Kheth_34, Hocus_33, Azuria_33, Nova1_33, Veritas_33, Dione_33,

Brilliant_34, Skippy_34, Plata_33, Gwilliam_34, Holeinone_34, Coletti_34, Hedgerow_34, Daffy_34, Etaye_34, Squiggle_34, Antonia_33, Kiwot_33, Plmatters_34, Beaglebox_33, Megamind20_34, True_33, Newman_34, Trypo_34, Soto_34, KLucky39_34, JakeO_33, Vectra_33, Hartsy_34, Simielle_33, Piglet_0033, Zaider_35, Morty_34, Roscoe_35, CamL_34, Struggle_33, Phunky_34, Cornobble_33, Jbug01_33, Phamished_34, Weher20_34, Sabella_34, Fringe_34, ABU_34, Vaishali24_33, SallyH_34, BlueHusk_34, Pinkman_33, Hamish_34, Orfeu_33, TooFast2Furius_35, Salazzle_34, Blocker23_34, NiaNia_35, Vista_34, Windsor_33, Mesmerelda_33, Numberten_34, Aonishiki_34, FluffyNinja_34, Keitherie_34, Virgeve_33, PhatLouie_34, Toni_33, ImtiyazSitla_33, Swish_34, Vivaldi_34, ItsyBitsy1_34, West99_34, Mutante_33, PhrankReynolds_33, Melc17_34, TA17A_35, Serendipity_34, Khan1_33, Andre_34, Roy17_34, CheetO_34, Labeouficaum_33, TallGrassMM_34, Nacho_0034, CharlieGBrown_33, Yoshand_34, Lephleur_34, Chuni_34, FrenchFry_34, DelRivs_33, Serpentine_0034, Flake_34, Gwennie1_34, Haimas_34, KlimbOn_34, Calamitous_34, Spartan300_34, Suffolk_34, Mikota_34, Karn_33, ShadowBud_34, Rimu_34, Larson_35, PhenghisKhan_33, Sophia_33, Nicole21_34, Chorkpop_34, Hetaeria_34, Phleuron_33, Mosaic_33, DuchessDung_32, Rhinoforte_34, Jesabah_34, Solosis_33, Phantasmagoria_34, Virapocalypse_34, Slatt_34, Crownjwl_34, Septica_33, Burr_33, Maru_33, Kikipoo_34, Jeon_26, BlacksBerry_33, Inchworm_34, Valjean_34, UncleHowie_34, Dati_34, PhrodoBaggins_33, MrPhizzler_34, Childish_33, DaddyDaniels_34, Olive_34, Iridoclysis_34, MiniBoss_34, Soile_34, Mulan_33, Prickles_34, Oline_33, MelsMeow_33, Maskar_33, Pherdinand_34, Riverton_34, Orwigg_33, AngelCake_34, JangoPhett_34, Horchata_34, Derpp_33, Magic8_34, Tinciduntsolum_35, TyrionL_33, FleetyMac_34, Zonia_34, Thunderbird_33, Grand2040_33, Taraxa_33, Cher_33, DoesntMatter_34, Tres_34, Faze9_34, AbsoluteMadLad_33, Pipsqueak_34, SDcharge11_34, Gareth_33, Quisquiliae_34, Buckeye_34, Brownie5_34, Duggie_33, OSmaximus_34, Wallhey_33, MichaelPhcott_33, Chipette_35

• Track 12 : Freya_33, Scoot17C_34, Mesh1_34, Orion_34, Lopsy_33, Tooj_34, HenryJackson_33, SassyCat97_33, Hertubise_34, Adriana_34, Oosterbaan_34, Colbert_34, Kahve_33, YouGoGlencoco_34, Cosmolli16_33, DonSanchon_33, Daka_34, Katniss_34, PhatCats2014_34, Squid_34, PG1_34, FugateOSU_33, Waterdiva_34, Placalicious_33, Jillium_33, Surely_34, ThreeOh3D2_34, Boehler_34, Fang_34

• Track 13 : Olak_33, Opia_34, Selr12_34, Ricotta_33

• Track 14 : Happabalu_34, OliverWalter_34

• Track 15 : Megatron_34, DolOn_35, Aleia_34, Nehme_33

• Track 16 : Imvubu_27

• Track 17 : Indlovu_31

• Track 18 : LilMcDreamy_29

• Track 19 : Hashim76_37

• Track 20 : LittleMinkey_38

• Track 21 : Zenteno07_37

• Track 22 : BirdsNest_35

• Track 23 : Qyrzula_32, Pipefish_36, Ares_34, Godines_34

• Track 24 : RomaT_34, Nozo_34, Deenasa_34, ChaChing_34, Athena_35, Laurie_34, Gervas_34, Mortcellus_33, Tydolla_34, Casbah_33, Argie_27, Devonte_34, Akoma_34, TinyTerror_34, Chandler_34, LestyG_34, Abinghost_34, Heathcliff_34, Olivio_33, Shenandoah_34, RagingRooster_34, Chentzyk_33, Audrey_34, Chalmers_34, Neos5_34, Bernardo_34, Baloo_34, Corofin_34, SynergyX_34, Ben11_33, Vic9_00034, Daisy_34, Taptic_26, MmasiCarm_34, OrangeOswald_34, Philly_33, Kronus_33

• Track 25 : Morty007_34, Glubnar_35, Rita1961_34, Marley1013_34, Phayeta_35, Mulaychimus_34, SwainyDoc_34, Obutu_34
• Track 26 : Compostia_35, GlenHope_35
• Track 27 : Yahalom_34, Jackstina_31, Marlia_34, Halfpint_33
• Track 28 : SlippinJimmy_34, Phlyer_34, Gadjet_35, Yinz_34, Phaedrus_32, Kamiyu_34, Briakila_35, HarveySr_34
• Track 29 : Hydro_31
• Track 30 : JaguarMi_31, Xincheng_30
• Track 31 : RawrgerThat_31, GinPorsche_30, Nanao_30
• Track 32 : Mithril_31, VioletZ_31
• Track 33 : Lambano_30, JAMaL_31, Antihero_30, Ahwei_30, Hally898_30, Epah_30, Poster_30
• Track 34 : Lolalove_31
• Track 35 : Fanaw_30
• Track 36 : JoyceMaria_31, Hangman_31
• Track 37 : LittleDigger_30, Renkei_30
• Track 38 : Heath_30
• Track 39 : BrownCNA_32
• Track 40 : Stinger_29
• Track 41 : Apex_31, Austelle_32, Mudslide_31
• Track 42 : Prince_31
• Track 43 : Waleliano_31
• Track 44 : Cooper_31
• Track 45 : BobbyK_31, Frederick_31
• Track 46 : QueenPie_30
• Track 47 : ChrisnMich_30
• Track 48 : Zemanar_32
• Track 49 : AlanGrant_32
• Track 50 : Magpie_30
• Track 51 : Nigel_29
• Track 52 : Vincenzo_32
• Track 53 : Mysterious_33, Nehemiah_32
• Track 54 : Acadian_33, Rita130_33, EastView9101_32, Donny_33, Suigeneris_33, SirJeffery_33
• Track 55 : Reprobate_33, Phelemich_33
• Track 56 : Nangang_33, DigitDog_33, KarasumaRum_35, Shenyu_33, StinkyVeggy_35
• Track 57 : Baee_32, Rich_32
• Track 58 : Serendipitous_32
• Track 59 : Reccee_33
• Track 60 : KayaCho_28, Minnow_29
• Track 61 : 40BC_028, 39HC_028, ForDig_28
• Track 62 : Hosp_026
• Track 63 : Jolie1_028
• Track 64 : Saguaro_34
• Track 65 : Thonko_32
• Track 66 : Rinkes_35
• Track 67 : CRB2_36
• Track 68 : Knocker_35
• Track 69 : Funsized_36
• Track 70 : PenguinLover67_35
• Track 71 : Quesadilla_35
• Track 72 : Gmala1_21, GordTnk2_21, GordDuk1_21

• Track 73 : BigPhil_22, Sarma624_22, Cerasum_22, Velveteen_22
• Track 74 : LastJedi_21, Koella_21, Crumble_21, Jennelsea_21, Clifton_21
• Track 75 : Akhila_21, MilanaBonita_21
• Track 76 : Pippy_21, Brocalys_22
• Track 77 : Squirty_22, Phloss_23, Fulbright_23
• Track 78 : Cambiare_25, Avocado_24
• Track 79 : Pace1224_24, FlagStaff_24
• Track 80 : GodSpeed_24
• Track 81 : Pinnie_25
• Track 82 : MOOREtheMARYer_25
• Track 83 : Cloudyecho_24
• Track 84 : Lemuria_25, Mercurio_26
• Track 85 : Jolie2_24
• Track 86 : YangYin_24, Stargaze_24
• Track 87 : Antsirabe_24
• Track 88 : Xula_22
• Track 89 : QueenHazel_23
• Track 90 : Stuck_23
• Track 91 : Poochiewood_22, Tyson_22, Silverleaf_22, AvadaKedavra_22, JoeDirt_22, Acquire49_22, OhShagHennessy_22, Calm_22, CicholasNage_22, Wamburgrxpress_22, Rose5_22, Zaria_22, Halena_22, Wyatt2_22, MAckerman_22, Enceladus_22, DirkDirk_22
• Track 92 : UPIE_22
• Track 93 : LeBron_22
• Track 94 : Appletree2_22
• Track 95 : Crossroads_23, Vetrix_23, SoJulia_24, Hafay_23, BobsGarage_23, GuuelaD_23, BigCheese_23, Lynnae_23, Loadrie_23, Sarshaun_23, LilDestine_23, Netyap_23, Winky_23, Zakai_23, Hiraya_23, MkaliMitinis3_23, Lewan_23, Breezona_23, Wilder_23, Kahlid_23, Itos_23, Miley16_23, OverPar_23, Wigglewiggle_23, Soap141_23, Faith1_23, Gabriela_23, DrSeegs_23, Finemlucis_23
• Track 96 : Tourach_23
• Track 97 : Rumpelstiltskin_23
• Track 98 : Claus_23, DHan_23
• Track 99 : DanBing_22, Baoshan_22, ZhongYanYuan_22
• Track 100 : Underpass_23, ChengKai98_23, Gardann_23, Nicholasp3_23, Molivier_23
• Track 101 : Bazzle_23, Archie_23
• Track 102 : Rossetti_23
• Track 103 : Red305_23, Jubie_23, Lumos_23, Snenia_23, TriFive_23, Nicholas_23, Clautastrophe_23, Kingsolomon_23, MsGreen_23, Jobypre_23
• Track 104 : Bellis_23, Moostard_23, Finnry_23, Samty_23
• Track 105 : LiyuLake_23, MiniMac_23, Whirlwind_24, Krypton555_23, BourbonZero_22
• Track 106 : MiniLon_23, Ellson_23, Lolly9_23
• Track 107 : DuncansLeg_23, KirDoubleO7_21
• Track 108 : Douzhi_22, Sheng711_22, PYPDinur_22, BrainDrainer_23
• Track 109 : Baudelaire_24, Aegeus_24
• Track 110 : RoseMarie_34
• Track 111 : Nanosmite_37
• Track 112 : Hanako_23, Redi_23, Spinach_23, Nenae_23, PhancyPhin_23, ShrimpFriedEgg_23, BabeRuth_23, Purgamenstris_23
• Track 113 : Snekmaggedon_23, SpongeBob_23, Ms6_21, Jamie19_23, GreaseLightnin_24

• Track 114 : PR_26, D12_26
• Track 115 : Megabear_26, Cepens_26
• Track 116 : P3MA_25

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

The start number called the most often in the published annotations is 48, it was called in 568 of the 580 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• 39HC_028, 40BC_028, ABU_34, Abinghost_34, AbsoluteMadLad_33, Acadian_33, Acquire49_22, Adriana_34, Aelin_33, Akhila_21, Akoma_34, Allegro_34, AltPhacts_34, Altwerkus_33, Anderson_34, Andre_34, AngelCake_34, Antonia_33, Antsirabe_24, Aonishiki_34, Apex_31, Apizium_33, Appletree2_22, Arbiter_34, Archie_23, Ares_34, Argie_27, Arissanae_33, Ashraf_33, Athena_35, Audrey_34, Austelle_32, AvadaKedavra_22, Avocado_24, Azuria_33, BabeRuth_23, Badfish_34, Baee_32, Baloo_34, Bananafish_34, Banjo_33, Baoshan_22, Basato_35, BatteryCK_33, Bazzle_23, Beaglebox_33, Bellis_23, Ben11_33, Bernardo_34, BigCheese_23, BigPhil_22, BirdsNest_35, Bishoperium_33, BlackStallion_34, BlacksBerry_33, Blocker23_34, BlueHusk_34, Bluephacebaby_33, BobsGarage_23, Boehler_34, BoogieWoogie_34, BourbonZero_22, Boyle_34, BrainDrainer_23, Breezona_23, Briakila_35, Brilliant_34, Brocalys_22, BrownCNA_32, Brownie5_34, Buckeye_34, Burr_33, CRB2_36, Calamitous_34, Calm_22, CamL_34, Cambiare_25, CampRoach_34, Cannibal_34, Carthage_32, Casbah_33, Caspiboi_33, Caterpie_30, Cepens_26, Cerasum_22, ChaChing_34, Chaelin_34, Chah_35, Chalmers_34, Chandler_34, Charles1_34, CharlieGBrown_33, CheetO_34, ChengKai98_23, Chentzyk_33, Cher_33, Childish_33, ChipMunk_35, Chipette_35, Chorkpop_34, Chuni_34, Chunky_34, Chute_34, CicholasNage_22, Claus_23, Clautastrophe_23, Clifton_21, Cloudyecho_24, Cobra_34, Coffee_34, Colbert_34, Coletti_34, Compostia_35, Cooper_31, Cornbread_33, Cornobble_33, Corofin_34, Cosmolli16_33, Craff_34, Crossroads_23, Crownjwl_34, Crumble_21, D12_26, DHan_23, DaddyDaniels_34, Daffy_34, Daisy_34, Daka_34, DanBing_22, Dati_34, Deenasa_34, DelRivs_33, Derpp_33, Devonte_34, Dice_33, DigitDog_33, Dingo_34, Dione_33, DirkDirk_22, DirtJuice_34, Doddsville_34, DoesntMatter_34, DonSanchon_33, Donny_33, Dori_30, Douzhi_22, DrSeegs_23, DuchessDung_32, Duggie_33, DuncansLeg_23, Durga_34, Eaglehorse_34, EastView9101_32, Ellson_23, ElvisPhasley_34, EmGer13_33, Emiris_34, EmpTee_34, Enceladus_22, Eremos_34, Etaye_34, Eugenia_34, EvilGenius_35, Faith1_23, Fang_34, Faze9_34, Finemlucis_23, Finnry_23, FlagStaff_24, Flake_34, FleetyMac_34, FluffyNinja_34, ForDig_28, Fozzie_33, Frankicide_34, FremontTroll_33, FrenchFry_34, Freya_33, FriarPreacher_34, Fringe_34, FugateOSU_33, Fulbright_23, Funsized_36, Gabriela_23, Gadjet_35, Gail_33, Gardann_23, Gareth_33, GeneCoco_34, Gervas_34, GinPorsche_30, Giraffe_34, Glass_34, GlenHope_35, Glubnar_35, Gmala1_21, GodPhather_27, GodSpeed_24, Godines_34, Gophee_34, GordDuk1_21, GordTnk2_21, Grand2040_33, GreaseLightnin_24, GreenChile_34, GuuelaD_23, Gwennie1_34, Gwilliam_34, Gyarad_0034, HSavage_34, Hafay_23, Haimas_34, Haleema_33, Halena_22, Halfpint_33, Hamish_34, Hanako_23, Hangman_31, Hartsy_34, HarveySr_34, Harvey_34, Hashim76_37, Heath_30, Heathcliff_34, Hedgerow_34, Hekos_31, Held_34, HenryJackson_33, Hertubise_34, Hetaeria_34, HighStump_33, Hiraya_23, Hocus_33, HogWash_33, Holeinone_34,

Horchata_34, ImtiyazSitla_33, Imvubu_27, Inchworm_34, Indlovu_31, Inverness_34, Iridessa_34, Iridoclysis_34, IsaacEli_34, Itos_23, ItsyBitsy1_34, JDog_33, JacAttac_34, Jackstina_31, JakeO_33, Jamie19_23, JangoPhett_34, Jbug01_33, Jennelsea_21, Jeon_26, Jesabah_34, Jillium_33, Jiminy_33, Jiraiya_33, Jobypre_23, JoeDirt_22, JohnLord_31, Jolie1_028, Jolie2_24, JoyceMaria_31, Jubie_23, KLucky39_34, Kahlid_23, Kahve_33, Kailash_34, Kaleb_34, Kamiyu_34, KarasumaRum_35, Karn_33, Katniss_34, KayaCho_28, Keitherie_34, Keziacharles14_33, Khan1_33, Kheth_34, Kikipoo_34, Kimbrough_34, KingCyrus_35, KingTut_25, KingVeVeVe_34, Kingsolomon_23, KirDoubleO7_21, Kiwot_33, KlimbOn_34, Kloppinator_34, Knocker_35, Koella_21, Kolhan_34, Kronus_33, Krypton555_23, Kwadwo_33, Kwksand96_33, Labeouficaum_33, Lars_34, Larson_35, LasagnaCat_34, Lasso_34, LastJedi_21, Laurie_34, LeeLot_34, Lego3393_34, Legolas_33, Lehmann_34, LeiMonet_34, LemonSlice_34, Lemuria_25, Lephleur_34, LestyG_34, Lewan_23, LilDestine_23, LilMcDreamy_29, LilSmirk_34, LittleDigger_30, LittleMinkey_38, LiyuLake_23, LizLemon_34, Loadrie_23, Lolalove_31, Lolly9_23, Longacauda_33, Lopsy_33, LostAndPhound_33, Luchador_35, LuckyMarjie_33, Lulumae_33, Lulwa_34, Lumine_33, Lumos_23, Lynnae_23, MAckerman_22, MOOREtheMARYer_25, MRabcd_33, Mag7_33, Magic8_34, Magpie_30, Mana_33, Manad_33, Mao1_28, Marley1013_34, Marlia_34, Maru_33, Mask_29, Maskar_33, MasterPo_34, Matalotodo_34, Mcshane_33, Mecca_33, Megabear_26, Megamind20_34, Melc17_34, MelsMeow_33, Mercurio_26, Mesh1_34, Mesmerelda_33, MichaelPhcott_33, Mikota_34, MilanaBonita_21, Miley16_23, MiniBoss_34, MiniLon_23, MiniMac_23, Minnow_29, MitKao_34, Mithril_31, MkaliMitinis3_23, MmasiCarm_34, Molivier_23, Moostard_23, Morgushi_34, Mortcellus_33, Morty007_34, Morty_34, Mosaic_33, MrPhizzler_34, Ms6_21, MsGreen_23, Mudslide_31, Mulan_33, Mulaychimus_34, Murdoc_34, Mutante_33, Mysterious_33, Nacho_0034, Nanao_30, Nangang_33, Nanosmite_37, Nathan_34, Nehemiah_32, Nenae_23, Neos5_34, Netyap_23, Newman_34, NiaNia_35, Nicholas_23, Nicholasp3_23, Nicole21_34, Nigel_29, Nova1_33, Nozo_34, Numberten_34, Nyala_33, OSmaximus_34, Obutu_34, OhShagHennessy_22, Olak_33, Oline_33, Olive_34, Olivio_33, Omniscient_34, OneBrain_34, Oosterbaan_34, Opia_34, OrangeOswald_34, Orfeu_33, Orion_34, Orwigg_33, OverPar_23, P3MA_25, PG1_34, PR_26, PYPDinur_22, Pace1224_24, Pacifista_33, PallasAthena_33, PenguinLover67_35, Phaedrus_32, Phamished_34, PhancyPhin_23, Phantasmagoria_34, Phareon_34, PhatCats2014_34, PhatLouie_34, Phayeta_35, Phelemich_33, PhenghisKhan_33, Pherdinand_34, Phergie_33, Philly_33, Phipps_34, Phleuron_33, Phloss_23, Phlyer_34, PhrankReynolds_33, PhrodoBaggins_33, Phunky_34, Piglet_0033, PinheadLarry_34, Pinkman_33, Pinnie_25, Pipefish_36, Pippy_21, Pipsqueak_34, Placalicious_33, Plata_33, Plmatters_34, Podrick_34, Poochiewood_22, Pops_34, Potter_33, Prickles_34, PrinceCharming_34, Prince_31, ProfessorX_34, Puhltonio_34, Purgamenstris_23, QueenBeane_34, QueenHazel_23, Quesadilla_35, Quisquiliae_34, Qyrzula_32, RagingRooster_34, RawrgerThat_31, Reccee_33, Red305_23, RedMaple_33, RedRaider89_35, Redi_23, Renkei_30, Reprobate_33, Rhinoforte_34, Rich_32, Ricotta_33, Riggan_34, Rimu_34, Rinkes_35, Rita130_33, Rita1961_34, Riverton_34, Robyn_33, Roliet_34, RomaT_34, Roscoe_35, Rose5_22, RoseMarie_34, Rosebush_34, Rossetti_23, Roy17_34, Rumpelstiltskin_23, SDcharge11_34, Sabella_34, Saguaro_34, Salazzle_34, SallyH_34, Samaymay_34, Samty_23, Sarma624_22, Sarshaun_23, SassyCat97_33, Schadenfreude_33, Schueller_33, Scoot17C_34, Scrick_34, Sejanus_29, Selr12_34, Septica_33, Serendipitous_32, Serendipity_34, Serpentine_0034, ShadowBud_34, Sheila_34, Shenandoah_34, Sheng711_22, Shenyu_33, ShiVal_34, ShrimpFriedEgg_23, Sigman_34, SilverBell_34, Silverleaf_22, Simielle_33, SirBeauregard_34,

SirJeffery_33, Skippy_34, Slatt_34, SlippinJimmy_34, Snekmaggedon_23, Snenia_23, SoJulia_24, Soap141_23, Soile_34, Solosis_33, Sophia_33, SororFago_33, Soto_34, Spartan300_34, Spinach_23, SpongeBob_23, Squid_34, Squiggle_34, Squirty_22, Stargaze_24, Stinger_29, StinkyVeggy_35, Struggle_33, Stuck_23, Suffolk_34, Suigeneris_33, Surely_34, SwainyDoc_34, Swiphy_34, Swish_34, SynergyX_34, TA17A_35, TallGrassMM_34, Taptic_26, Taraxa_33, Telesworld_33, Thonko_32, Thora_34, ThreeOh3D2_34, Thunderbird_33, Timmi_33, Tinciduntsolum_35, TinyTerror_34, TomBombadil_34, Tomlarah_34, Toni_33, TooFast2Furius_35, Tooj_34, Tourach_23, Tres_34, TriFive_23, Triad_34, True_33, Trypo_34, Tydolla_34, TyrionL_33, Tyson_22, UAch1_34, UncleHowie_34, Underpass_23, Usavi_34, Vaishali24_33, Valjean_34, Vanisoa_32, Vaticameos_34, Vectra_33, Velveteen_22, Veritas_33, Vetrix_23, Vic9_00034, Vincenzo_32, VioletZ_31, Virapocalypse_34, Virgeve_33, Vista_34, Vivaldi_34, Vortex_34, Waleliano_31, Wallhey_33, Wamburgrxpress_22, Waterdiva_34, Weher20_34, West99_34, Whirlwind_24, Wigglewiggle_23, Wilder_23, Windsor_33, Winky_23, Wyatt2_22, Xavier_33, Xula_22, Yahalom_34, YangYin_24, Yinz_34, Yoshand_34, YouGoGlencoco_34, Zaider_35, Zakai_23, Zaria_22, Zelda_34, Zemanar_32, Zenteno07_37, ZhongYanYuan_22, Zonia_34,

Genes that have the "Most Annotated" start but do not call it:
• Ahwei_30, AlanGrant_32, Aleia_34, Antihero_30, BobbyK_31, ChrisnMich_30, DolOn_35, Epah_30, Fanaw_30, Frederick_31, Hally898_30, Happabalu_34, Hosp_026, Hydro_31, JAMaL_31, JaguarMi_31, Lambano_30, LeBron_22, Megatron_34, Nehme_33, OliverWalter_34, Poster_30, QueenPie_30, UPIE_22, Xincheng_30,

Genes that do not have the "Most Annotated" start:
• Aegeus_24, Baudelaire_24,

Summary by start number:

Start 41:
• Found in 29 of 666 (4.4%) of genes in pham
• Manual Annotations of this start: 2 of 580
• Called 6.9% of time when present
• Phage (with cluster) where this start called: BobbyK_31 (B4), Frederick_31 (B4),

Start 47:
• Found in 2 of 666 (0.3%) of genes in pham
• Manual Annotations of this start: 2 of 580
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aegeus_24 (L5), Baudelaire_24 (L5),

Start 48:
• Found in 664 of 666 (99.7%) of genes in pham
• Manual Annotations of this start: 568 of 580
• Called 96.2% of time when present
• Phage (with cluster) where this start called: 39HC_028 (B6), 40BC_028 (B6), ABU_34 (B1), Abinghost_34 (B3), AbsoluteMadLad_33 (B1), Acadian_33 (B5), Acquire49_22 (L1), Adriana_34 (B1), Aelin_33 (B1), Akhila_21 (F1), Akoma_34 (B3), Allegro_34 (B2), AltPhacts_34 (B1), Altwerkus_33 (B1), Anderson_34 (B1), Andre_34 (B1), AngelCake_34 (B1), Antonia_33 (B1), Antsirabe_24 (G5), Aonishiki_34 (B1), Apex_31 (B4), Apizium_33 (B1), Appletree2_22 (L1), Arbiter_34 (B2), Archie_23 (L2),

Ares_34 (B2), Argie_27 (W), Arissanae_33 (A9), Ashraf_33 (B1), Athena_35 (B3), Audrey_34 (B3), Austelle_32 (B4), AvadaKedavra_22 (L1), Avocado_24 (G2), Azuria_33 (B1), BabeRuth_23 (N), Badfish_34 (B1), Baee_32 (B5), Baloo_34 (B3), Bananafish_34 (B2), Banjo_33 (B1), Baoshan_22 (L2), Basato_35 (B1), BatteryCK_33 (B1), Bazzle_23 (L2), Beaglebox_33 (B1), Bellis_23 (L3), Ben11_33 (B3), Bernardo_34 (B3), BigCheese_23 (L2), BigPhil_22 (F1), BirdsNest_35 (B13), Bishoperium_33 (B1), BlackStallion_34 (B1), BlacksBerry_33 (B1), Blocker23_34 (B2), BlueHusk_34 (B1), Bluephacebaby_33 (B1), BobsGarage_23 (L2), Boehler_34 (B1), BoogieWoogie_34 (B1), BourbonZero_22 (L3), Boyle_34 (B2), BrainDrainer_23 (L4), Breezona_23 (L2), Briakila_35 (B3), Brilliant_34 (B1), Brocalys_22 (F1), BrownCNA_32 (B4), Brownie5_34 (B2), Buckeye_34 (B1), Burr_33 (B1), CRB2_36 (B9), Calamitous_34 (B2), Calm_22 (L1), CamL_34 (B1), Cambiare_25 (G2), CampRoach_34 (B1), Cannibal_34 (B1), Carthage_32 (B1), Casbah_33 (B3), Caspiboi_33 (B1), Caterpie_30 (AD), Cepens_26 (W), Cerasum_22 (F1), ChaChing_34 (B3), Chaelin_34 (B1), Chah_35 (B1), Chalmers_34 (B3), Chandler_34 (B3), Charles1_34 (B1), CharlieGBrown_33 (B1), CheetO_34 (B1), ChengKai98_23 (L2), Chentzyk_33 (B3), Cher_33 (B1), Childish_33 (B1), ChipMunk_35 (A2), Chipette_35 (B1), Chorkpop_34 (B1), Chuni_34 (B1), Chunky_34 (B1), Chute_34 (B1), CicholasNage_22 (L1), Claus_23 (L2), Clautastrophe_23 (L3), Clifton_21 (F1), Cloudyecho_24 (G3), Cobra_34 (B1), Coffee_34 (B2), Colbert_34 (B1), Coletti_34 (B1), Compostia_35 (B3), Cooper_31 (B4), Cornbread_33 (B1), Cornobble_33 (B1), Corofin_34 (B3), Cosmolli16_33 (B1), Craff_34 (B1), Crossroads_23 (L2), Crownjwl_34 (B1), Crumble_21 (F1), D12_26 (W), DHan_23 (L2), DaddyDaniels_34 (B1), Daffy_34 (B1), Daisy_34 (B3), Daka_34 (B1), DanBing_22 (L2), Dati_34 (B1), Deenasa_34 (B3), DelRivs_33 (B1), Derpp_33 (B1), Devonte_34 (B3), Dice_33 (B1), DigitDog_33 (B5), Dingo_34 (B1), Dione_33 (B1), DirkDirk_22 (L1), DirtJuice_34 (B1), Doddsville_34 (B1), DoesntMatter_34 (B1), DonSanchon_33 (B1), Donny_33 (B5), Dori_30 (AD), Douzhi_22 (L4), DrSeegs_23 (L2), DuchessDung_32 (B1), Duggie_33 (B1), DuncansLeg_23 (L3), Durga_34 (B1), Eaglehorse_34 (B2), EastView9101_32 (B5), Ellson_23 (L3), ElvisPhasley_34 (B1), EmGer13_33 (B1), Emiris_34 (B1), EmpTee_34 (B1), Enceladus_22 (L1), Eremos_34 (B1), Etaye_34 (B1), Eugenia_34 (B1), EvilGenius_35 (A2), Faith1_23 (L2), Fang_34 (B1), Faze9_34 (B2), Finemlucis_23 (L2), Finnry_23 (L3), FlagStaff_24 (G2), Flake_34 (B1), FleetyMac_34 (B1), FluffyNinja_34 (B1), ForDig_28 (B6), Fozzie_33 (B1), Frankicide_34 (B1), FremontTroll_33 (B1), FrenchFry_34 (B2), Freya_33 (B1), FriarPreacher_34 (B1), Fringe_34 (B1), FugateOSU_33 (B1), Fulbright_23 (N), Funsized_36 (B9), Gabriela_23 (L2), Gadjet_35 (B3), Gail_33 (A14), Gardann_23 (L2), Gareth_33 (B1), GeneCoco_34 (B1), Gervas_34 (B3), GinPorsche_30 (B4), Giraffe_34 (B1), Glass_34 (B2), GlenHope_35 (B3), Glubnar_35 (B3), Gmala1_21 (DF1), GodPhather_27 (W), GodSpeed_24 (G2), Godines_34 (B2), Gophee_34 (B1), GordDuk1_21 (DF1), GordTnk2_21 (DF1), Grand2040_33 (B1), GreaseLightnin_24 (P1), GreenChile_34 (B1), GuuelaD_23 (L2), Gwennie1_34 (B1), Gwilliam_34 (B1), Gyarad_0034 (B1), HSavage_34 (B1), Hafay_23 (L2), Haimas_34 (B1), Haleema_33 (B1), Halena_22 (L1), Halfpint_33 (B3), Hamish_34 (B1), Hanako_23 (N), Hangman_31 (B4), Hartsy_34 (B1), HarveySr_34 (B3), Harvey_34 (B1), Hashim76_37 (B13), Heath_30 (B4), Heathcliff_34 (B3), Hedgerow_34 (B2), Hekos_31 (B1), Held_34 (B1), HenryJackson_33 (B1), Hertubise_34 (B1), Hetaeria_34 (B1), HighStump_33 (B1), Hiraya_23 (L2), Hocus_33 (B1), HogWash_33 (B1), Holeinone_34 (B2), Horchata_34 (B1), ImtiyazSitla_33 (B1), Imvubu_27 (B10), Inchworm_34 (B1), Indlovu_31 (B11), Inverness_34 (B1), Iridessa_34 (B1), Iridoclysis_34 (B1), IsaacEli_34 (B1), Itos_23 (L2), ItsyBitsy1_34 (B2), JDog_33 (B1), JacAttac_34 (B1), Jackstina_31 (B3), JakeO_33 (B1), Jamie19_23 (N), JangoPhett_34 (B1), Jbug01_33 (B1), Jennelsea_21 (F1), Jeon_26 (W), Jesabah_34 (B1), Jillium_33 (B1), Jiminy_33 (B1),

Jiraiya_33 (B1), Jobypre_23 (L3), JoeDirt_22 (L1), JohnLord_31 (AD), Jolie1_028 (B6), Jolie2_24 (G4), JoyceMaria_31 (B4), Jubie_23 (L3), KLucky39_34 (B1), Kahlid_23 (L2), Kahve_33 (B1), Kailash_34 (B1), Kaleb_34 (B2), Kamiyu_34 (B3), KarasumaRum_35 (B5), Karn_33 (B1), Katniss_34 (B1), KayaCho_28 (B6), Keitherie_34 (B1), Keziacharles14_33 (A9), Khan1_33 (B1), Kheth_34 (B2), Kikipoo_34 (B1), Kimbrough_34 (B1), KingCyrus_35 (A2), KingTut_25 (B1), KingVeVeVe_34 (B1), Kingsolomon_23 (L3), KirDoubleO7_21 (L3), Kiwot_33 (B1), KlimbOn_34 (B1), Kloppinator_34 (B1), Knocker_35 (B9), Koella_21 (F1), Kolhan_34 (B2), Kronus_33 (B3), Krypton555_23 (L3), Kwadwo_33 (B1), Kwksand96_33 (B1), Labeouficaum_33 (B1), Lars_34 (B2), Larson_35 (B1), LasagnaCat_34 (B1), Lasso_34 (B1), LastJedi_21 (F1), Laurie_34 (B2), LeeLot_34 (B1), Lego3393_34 (B1), Legolas_33 (B1), Lehmann_34 (B1), LeiMonet_34 (B1), LemonSlice_34 (B1), Lemuria_25 (G4), Lephleur_34 (B2), LestyG_34 (B3), Lewan_23 (L2), LilDestine_23 (L2), LilMcDreamy_29 (B12), LilSmirk_34 (B2), LittleDigger_30 (B4), LittleMinkey_38 (B13), LiyuLake_23 (L3), LizLemon_34 (B2), Loadrie_23 (L2), Lolalove_31 (B4), Lolly9_23 (L3), Longacauda_33 (B1), Lopsy_33 (B1), LostAndPhound_33 (B1), Luchador_35 (A14), LuckyMarjie_33 (B1), Lulumae_33 (B1), Lulwa_34 (B1), Lumine_33 (B1), Lumos_23 (L3), Lynnae_23 (L2), MAckerman_22 (L1), MOOREtheMARYer_25 (G3), MRabcd_33 (B1), Mag7_33 (B1), Magic8_34 (B1), Magpie_30 (B4), Mana_33 (B1), Manad_33 (B1), Mao1_28 (AD), Marley1013_34 (B3), Marlia_34 (B3), Maru_33 (B1), Mask_29 (AD), Maskar_33 (B1), MasterPo_34 (B2), Matalotodo_34 (B1), Mcshane_33 (B1), Mecca_33 (B1), Megabear_26 (W), Megamind20_34 (B1), Melc17_34 (B1), MelsMeow_33 (B1), Mercurio_26 (G4), Mesh1_34 (B1), Mesmerelda_33 (B1), MichaelPhcott_33 (B1), Mikota_34 (B1), MilanaBonita_21 (F1), Miley16_23 (L2), MiniBoss_34 (B1), MiniLon_23 (L3), MiniMac_23 (L3), Minnow_29 (B6), MitKao_34 (B1), Mithril_31 (B4), MkaliMitinis3_23 (L2), MmasiCarm_34 (B3), Molivier_23 (L2), Moostard_23 (L3), Morgushi_34 (B1), Mortcellus_33 (B3), Morty007_34 (B3), Morty_34 (B1), Mosaic_33 (B1), MrPhizzler_34 (B1), Ms6_21 (F1), MsGreen_23 (L3), Mudslide_31 (B4), Mulan_33 (B1), Mulaychimus_34 (B3), Murdoc_34 (B1), Mutante_33 (B1), Mysterious_33 (B5), Nacho_0034 (B1), Nanao_30 (B4), Nangang_33 (B5), Nanosmite_37 (M3), Nathan_34 (B1), Nehemiah_32 (B5), Nenae_23 (N), Neos5_34 (B3), Netyap_23 (L2), Newman_34 (B1), NiaNia_35 (B1), Nicholas_23 (L3), Nicholasp3_23 (L2), Nicole21_34 (B1), Nigel_29 (B4), Nova1_33 (B1), Nozo_34 (B3), Numberten_34 (B1), Nyala_33 (B1), OSmaximus_34 (B1), Obutu_34 (B3), OhShagHennessy_22 (L1), Olak_33 (B1), Oline_33 (B1), Olive_34 (B1), Olivio_33 (B3), Omniscient_34 (B1), OneBrain_34 (B1), Oosterbaan_34 (B1), Opia_34 (B2), OrangeOswald_34 (B3), Orfeu_33 (B1), Orion_34 (B1), Orwigg_33 (B1), OverPar_23 (L2), P3MA_25 (singleton), PG1_34 (B1), PR_26 (W), PYPDinur_22 (L4), Pace1224_24 (G2), Pacifista_33 (B1), PallasAthena_33 (B1), PenguinLover67_35 (B9), Phaedrus_32 (B3), Phamished_34 (B1), PhancyPhin_23 (N), Phantasmagoria_34 (B2), Phareon_34 (B1), PhatCats2014_34 (B1), PhatLouie_34 (B1), Phayeta_35 (B3), Phelemich_33 (B5), PhenghisKhan_33 (B1), Pherdinand_34 (B1), Phergie_33 (B1), Philly_33 (B3), Phipps_34 (B1), Phleuron_33 (B1), Phloss_23 (N), Phlyer_34 (B3), PhrankReynolds_33 (B1), PhrodoBaggins_33 (B1), Phunky_34 (B1), Piglet_0033 (B1), PinheadLarry_34 (B1), Pinkman_33 (B1), Pinnie_25 (G3), Pipefish_36 (B3), Pippy_21 (F1), Pipsqueak_34 (B1), Placalicious_33 (B1), Plata_33 (B1), Plmatters_34 (B1), Podrick_34 (B1), Poochiewood_22 (L1), Pops_34 (B1), Potter_33 (B1), Prickles_34 (B1), PrinceCharming_34 (B2), Prince_31 (B4), ProfessorX_34 (B1), Puhltonio_34 (B1), Purgamenstris_23 (N), QueenBeane_34 (B1), QueenHazel_23 (I1), Quesadilla_35 (B9), Quisquiliae_34 (B1), Qyrzula_32 (B2), RagingRooster_34 (B3), RawrgerThat_31 (B4), Reccee_33 (B5), Red305_23 (L3), RedMaple_33 (B1), RedRaider89_35 (B1), Redi_23 (N), Renkei_30 (B4),

Reprobate_33 (B5), Rhinoforte_34 (B2), Rich_32 (B5), Ricotta_33 (B1), Riggan_34 (B1), Rimu_34 (B1), Rinkes_35 (B9), Rita130_33 (B5), Rita1961_34 (B3), Riverton_34 (B1), Robyn_33 (B1), Roliet_34 (B1), RomaT_34 (B3), Roscoe_35 (B1), Rose5_22 (L1), RoseMarie_34 (M1), Rosebush_34 (B2), Rossetti_23 (L2), Roy17_34 (B1), Rumpelstiltskin_23 (L2), SDcharge11_34 (B1), Sabella_34 (B2), Saguaro_34 (B7), Salazzle_34 (B1), SallyH_34 (B1), Samaymay_34 (B1), Samty_23 (L3), Sarma624_22 (F1), Sarshaun_23 (L2), SassyCat97_33 (B1), Schadenfreude_33 (B1), Schueller_33 (B1), Scoot17C_34 (B1), Scrick_34 (B1), Sejanus_29 (AD), Selr12_34 (B1), Septica_33 (B1), Serendipitous_32 (B5), Serendipity_34 (B1), Serpentine_0034 (B1), ShadowBud_34 (B1), Sheila_34 (B1), Shenandoah_34 (B3), Sheng711_22 (L4), Shenyu_33 (B5), ShiVal_34 (B1), ShrimpFriedEgg_23 (N), Sigman_34 (B1), SilverBell_34 (B1), Silverleaf_22 (L1), Simielle_33 (B1), SirBeauregard_34 (B1), SirJeffery_33 (B5), Skippy_34 (B1), Slatt_34 (B1), SlippinJimmy_34 (B3), Snekmaggedon_23 (N), Snenia_23 (L3), SoJulia_24 (L2), Soap141_23 (L2), Soile_34 (B1), Solosis_33 (B1), Sophia_33 (B1), SororFago_33 (A14), Soto_34 (B1), Spartan300_34 (B1), Spinach_23 (N), SpongeBob_23 (N), Squid_34 (B1), Squiggle_34 (B1), Squirty_22 (F3), Stargaze_24 (G5), Stinger_29 (B4), StinkyVeggy_35 (B5), Struggle_33 (B1), Stuck_23 (I2), Suffolk_34 (B1), Suigeneris_33 (B5), Surely_34 (B1), SwainyDoc_34 (B3), Swiphy_34 (B1), Swish_34 (B1), SynergyX_34 (B3), TA17A_35 (B2), TallGrassMM_34 (B1), Taptic_26 (W), Taraxa_33 (B1), Telesworld_33 (B1), Thonko_32 (B8), Thora_34 (B1), ThreeOh3D2_34 (B1), Thunderbird_33 (B1), Timmi_33 (B1), Tinciduntsolum_35 (B2), TinyTerror_34 (B3), TomBombadil_34 (B1), Tomlarah_34 (B1), Toni_33 (B1), TooFast2Furius_35 (B1), Tooj_34 (B1), Tourach_23 (L2), Tres_34 (B2), TriFive_23 (L3), Triad_34 (B1), True_33 (B1), Trypo_34 (B1), Tydolla_34 (B3), TyrionL_33 (B1), Tyson_22 (L1), UAch1_34 (B1), UncleHowie_34 (B1), Underpass_23 (L2), Usavi_34 (B1), Vaishali24_33 (B1), Valjean_34 (B1), Vanisoa_32 (A9), Vaticameos_34 (B1), Vectra_33 (B1), Velveteen_22 (F1), Veritas_33 (B1), Vetrix_23 (L2), Vic9_00034 (B2), Vincenzo_32 (B4), VioletZ_31 (B4), Virapocalypse_34 (B1), Virgeve_33 (B1), Vista_34 (B1), Vivaldi_34 (B1), Vortex_34 (B1), Waleliano_31 (B4), Wallhey_33 (B1), Wamburgrxpress_22 (L1), Waterdiva_34 (B1), Weher20_34 (B1), West99_34 (B2), Whirlwind_24 (L3), Wigglewiggle_23 (L2), Wilder_23 (L2), Windsor_33 (B1), Winky_23 (L2), Wyatt2_22 (L1), Xavier_33 (B1), Xula_22 (I1), Yahalom_34 (B3), YangYin_24 (G5), Yinz_34 (B3), Yoshand_34 (B1), YouGoGlencoco_34 (B1), Zaider_35 (B1), Zakai_23 (L2), Zaria_22 (L1), Zelda_34 (B1), Zemanar_32 (B4), Zenteno07_37 (B13), ZhongYanYuan_22 (L2), Zonia_34 (B1),

Start 50:
• Found in 47 of 666 (7.1%) of genes in pham
• Manual Annotations of this start: 4 of 580
• Called 29.8% of time when present
• Phage (with cluster) where this start called: Ahwei_30 (B4), AlanGrant_32 (B4), Antihero_30 (B4), ChrisnMich_30 (B4), Epah_30 (B4), Fanaw_30 (B4), Hally898_30 (B4), Hydro_31 (B4), JAMaL_31 (B4), JaguarMi_31 (B4), Lambano_30 (B4), Poster_30 (B4), QueenPie_30 (B4), Xincheng_30 (B4),

Start 51:
• Found in 363 of 666 (54.5%) of genes in pham
• Manual Annotations of this start: 1 of 580
• Called 1.1% of time when present
• Phage (with cluster) where this start called: Aleia_34 (B1), DolOn_35 (B1), Megatron_34 (B1), Nehme_33 (B1),

Start 52:
• Found in 372 of 666 (55.9%) of genes in pham
• Manual Annotations of this start: 1 of 580
• Called 0.8% of time when present
• Phage (with cluster) where this start called: Happabalu_34 (B1), Hosp_026 (B6), OliverWalter_34 (B1),

Start 53:
• Found in 67 of 666 (10.1%) of genes in pham
• Manual Annotations of this start: 2 of 580
• Called 3.0% of time when present
• Phage (with cluster) where this start called: LeBron_22 (L1), UPIE_22 (L1),

Summary by clusters:

There are 37 clusters represented in this pham: singleton, B10, M1, B13, M3, B11, A14, G5, G4, G3, G2, I1, I2, DF1, A2, A9, P1, AD, N, L4, L5, L2, L3, W, L1, F1, F3, B4, B5, B6, B7, B1, B2, B3, B12, B8, B9,

Info for manual annotations of cluster A14:
•Start number 48 was manually annotated 3 times for cluster A14.

Info for manual annotations of cluster A2:
•Start number 48 was manually annotated 3 times for cluster A2.

Info for manual annotations of cluster A9:
•Start number 48 was manually annotated 3 times for cluster A9.

Info for manual annotations of cluster AD:
•Start number 48 was manually annotated 4 times for cluster AD.

Info for manual annotations of cluster B1:
•Start number 48 was manually annotated 295 times for cluster B1.
•Start number 51 was manually annotated 1 time for cluster B1.
•Start number 52 was manually annotated 1 time for cluster B1.

Info for manual annotations of cluster B10:
•Start number 48 was manually annotated 1 time for cluster B10.

Info for manual annotations of cluster B11:
•Start number 48 was manually annotated 1 time for cluster B11.

Info for manual annotations of cluster B12:
•Start number 48 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B13:
•Start number 48 was manually annotated 3 times for cluster B13.

Info for manual annotations of cluster B2:
•Start number 48 was manually annotated 37 times for cluster B2.

Info for manual annotations of cluster B3:
•Start number 48 was manually annotated 53 times for cluster B3.

Info for manual annotations of cluster B4:
•Start number 41 was manually annotated 2 times for cluster B4.
•Start number 48 was manually annotated 22 times for cluster B4.
•Start number 50 was manually annotated 4 times for cluster B4.

Info for manual annotations of cluster B5:
•Start number 48 was manually annotated 11 times for cluster B5.

Info for manual annotations of cluster B6:
•Start number 48 was manually annotated 2 times for cluster B6.

Info for manual annotations of cluster B7:
•Start number 48 was manually annotated 1 time for cluster B7.

Info for manual annotations of cluster B8:
•Start number 48 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster B9:
•Start number 48 was manually annotated 6 times for cluster B9.

Info for manual annotations of cluster F1:
•Start number 48 was manually annotated 13 times for cluster F1.

Info for manual annotations of cluster F3:
•Start number 48 was manually annotated 1 time for cluster F3.

Info for manual annotations of cluster G2:
•Start number 48 was manually annotated 4 times for cluster G2.

Info for manual annotations of cluster G3:
•Start number 48 was manually annotated 3 times for cluster G3.

Info for manual annotations of cluster G4:
•Start number 48 was manually annotated 2 times for cluster G4.

Info for manual annotations of cluster G5:
•Start number 48 was manually annotated 3 times for cluster G5.

Info for manual annotations of cluster I1:
•Start number 48 was manually annotated 2 times for cluster I1.

Info for manual annotations of cluster I2:
•Start number 48 was manually annotated 1 time for cluster I2.

Info for manual annotations of cluster L1:
•Start number 48 was manually annotated 17 times for cluster L1.
•Start number 53 was manually annotated 2 times for cluster L1.

Info for manual annotations of cluster L2:
•Start number 48 was manually annotated 32 times for cluster L2.

Info for manual annotations of cluster L3:
•Start number 48 was manually annotated 19 times for cluster L3.

Info for manual annotations of cluster L5:
•Start number 47 was manually annotated 2 times for cluster L5.

Info for manual annotations of cluster M3:
•Start number 48 was manually annotated 1 time for cluster M3.

Info for manual annotations of cluster N:
•Start number 48 was manually annotated 13 times for cluster N.

Info for manual annotations of cluster P1:
•Start number 48 was manually annotated 1 time for cluster P1.

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

Gene Information:

Gene: 39HC_028 Start: 31303, Stop: 31689, Start Num: 48
Candidate Starts for 39HC_028:
(Start: 48 @31303 has 568 MA's), (Start: 52 @31330 has 1 MA's), (61, 31390), (77, 31504), (87, 31612),

Gene: 40BC_028 Start: 31303, Stop: 31689, Start Num: 48
Candidate Starts for 40BC_028:
(Start: 48 @31303 has 568 MA's), (Start: 52 @31330 has 1 MA's), (61, 31390), (77, 31504), (87, 31612),

Gene: ABU_34 Start: 33555, Stop: 33944, Start Num: 48
Candidate Starts for ABU_34:
(Start: 48 @33555 has 568 MA's), (Start: 51 @33579 has 1 MA's), (Start: 52 @33582 has 1 MA's), (70, 33711), (75, 33747), (90, 33882),

Gene: Abinghost_34 Start: 33448, Stop: 33831, Start Num: 48
Candidate Starts for Abinghost_34:
(Start: 48 @33448 has 568 MA's), (60, 33529), (61, 33532), (75, 33640), (81, 33697), (87, 33754), (95, 33808),

Gene: AbsoluteMadLad_33 Start: 33564, Stop: 33953, Start Num: 48
Candidate Starts for AbsoluteMadLad_33:
(Start: 48 @33564 has 568 MA's), (Start: 51 @33588 has 1 MA's), (Start: 52 @33591 has 1 MA's), (70, 33720), (75, 33756), (90, 33891),

Gene: Acadian_33 Start: 34121, Stop: 34504, Start Num: 48
Candidate Starts for Acadian_33:
(5, 33680), (10, 33764), (Start: 48 @34121 has 568 MA's), (60, 34202), (75, 34313), (81, 34370), (87, 34427),

Gene: Acquire49_22 Start: 22873, Stop: 23256, Start Num: 48
Candidate Starts for Acquire49_22:
(Start: 48 @22873 has 568 MA's), (Start: 53 @22909 has 2 MA's), (54, 22912), (63, 22969), (83, 23158), (97, 23239),

Gene: Adriana_34 Start: 33553, Stop: 33942, Start Num: 48
Candidate Starts for Adriana_34:
(Start: 48 @33553 has 568 MA's), (Start: 51 @33577 has 1 MA's), (Start: 52 @33580 has 1 MA's), (70, 33709), (75, 33745), (83, 33844), (90, 33880),

Gene: Aegeus_24 Start: 21274, Stop: 21666, Start Num: 47
Candidate Starts for Aegeus_24:
(Start: 47 @21274 has 2 MA's), (55, 21328), (61, 21364), (63, 21376), (79, 21505), (83, 21568), (86, 21583), (89, 21601), (91, 21619), (94, 21640), (98, 21655),

Gene: Aelin_33 Start: 33119, Stop: 33508, Start Num: 48
Candidate Starts for Aelin_33:
(Start: 48 @33119 has 568 MA's), (Start: 51 @33143 has 1 MA's), (Start: 52 @33146 has 1 MA's), (70, 33275), (75, 33311), (90, 33446),

Gene: Ahwei_30 Start: 32758, Stop: 33138, Start Num: 50
Candidate Starts for Ahwei_30:
(3, 32272), (16, 32431), (25, 32506), (27, 32515), (28, 32521), (37, 32650), (40, 32659), (Start: 41 @32665 has 2 MA's), (42, 32680), (44, 32692), (Start: 48 @32746 has 568 MA's), (49, 32752), (Start: 50 @32758 has 4 MA's), (Start: 53 @32782 has 2 MA's), (55, 32794), (56, 32806), (60, 32827), (61, 32830), (71, 32908), (72, 32920), (94, 33112),

Gene: Akhila_21 Start: 21535, Stop: 21918, Start Num: 48
Candidate Starts for Akhila_21:
(Start: 48 @21535 has 568 MA's), (61, 21619), (70, 21691), (77, 21733), (79, 21757), (90, 21856),

Gene: Akoma_34 Start: 33452, Stop: 33835, Start Num: 48
Candidate Starts for Akoma_34:
(Start: 48 @33452 has 568 MA's), (60, 33533), (61, 33536), (75, 33644), (81, 33701), (87, 33758), (95, 33812),

Gene: AlanGrant_32 Start: 34506, Stop: 34886, Start Num: 50
Candidate Starts for AlanGrant_32:
(16, 34179), (27, 34263), (28, 34269), (29, 34275), (37, 34398), (40, 34407), (44, 34440), (Start: 48 @34494 has 568 MA's), (49, 34500), (Start: 50 @34506 has 4 MA's), (Start: 51 @34518 has 1 MA's), (Start: 53 @34530 has 2 MA's), (55, 34542), (56, 34554), (60, 34575), (61, 34578), (71, 34656), (72, 34668), (83, 34788), (94, 34860),

Gene: Aleia_34 Start: 33160, Stop: 33525, Start Num: 51
Candidate Starts for Aleia_34:
(Start: 48 @33136 has 568 MA's), (Start: 51 @33160 has 1 MA's), (Start: 52 @33163 has 1 MA's), (70, 33292), (75, 33328), (90, 33463),

Gene: Allegro_34 Start: 33877, Stop: 34266, Start Num: 48
Candidate Starts for Allegro_34:
(Start: 48 @33877 has 568 MA's), (Start: 51 @33901 has 1 MA's), (Start: 52 @33904 has 1 MA's), (70, 34033), (75, 34069), (90, 34204),

Gene: AltPhacts_34 Start: 33542, Stop: 33931, Start Num: 48
Candidate Starts for AltPhacts_34:
(Start: 48 @33542 has 568 MA's), (Start: 51 @33566 has 1 MA's), (Start: 52 @33569 has 1 MA's), (70, 33698), (75, 33734), (90, 33869),

Gene: Altwerkus_33 Start: 33243, Stop: 33632, Start Num: 48
Candidate Starts for Altwerkus_33:
(Start: 48 @33243 has 568 MA's), (Start: 51 @33267 has 1 MA's), (Start: 52 @33270 has 1 MA's), (70, 33399), (75, 33435), (90, 33570),

Gene: Anderson_34 Start: 33548, Stop: 33937, Start Num: 48
Candidate Starts for Anderson_34:
(Start: 48 @33548 has 568 MA's), (Start: 51 @33572 has 1 MA's), (Start: 52 @33575 has 1 MA's), (70, 33704), (75, 33740), (90, 33875),

Gene: Andre_34 Start: 33547, Stop: 33936, Start Num: 48
Candidate Starts for Andre_34:
(Start: 48 @33547 has 568 MA's), (Start: 51 @33571 has 1 MA's), (Start: 52 @33574 has 1 MA's), (70, 33703), (75, 33739), (90, 33874),

Gene: AngelCake_34 Start: 33567, Stop: 33956, Start Num: 48
Candidate Starts for AngelCake_34:
(Start: 48 @33567 has 568 MA's), (Start: 51 @33591 has 1 MA's), (Start: 52 @33594 has 1 MA's), (70, 33723), (75, 33759), (90, 33894),

Gene: Antihero_30 Start: 32758, Stop: 33138, Start Num: 50
Candidate Starts for Antihero_30:
(3, 32272), (16, 32431), (25, 32506), (27, 32515), (28, 32521), (37, 32650), (40, 32659), (Start: 41 @32665 has 2 MA's), (42, 32680), (44, 32692), (Start: 48 @32746 has 568 MA's), (49, 32752), (Start: 50 @32758 has 4 MA's), (Start: 53 @32782 has 2 MA's), (55, 32794), (56, 32806), (60, 32827), (61, 32830), (71, 32908), (72, 32920), (94, 33112),

Gene: Antonia_33 Start: 33119, Stop: 33508, Start Num: 48
Candidate Starts for Antonia_33:
(Start: 48 @33119 has 568 MA's), (Start: 51 @33143 has 1 MA's), (Start: 52 @33146 has 1 MA's), (70, 33275), (75, 33311), (90, 33446),

Gene: Antsirabe_24 Start: 24629, Stop: 25018, Start Num: 48
Candidate Starts for Antsirabe_24:
(Start: 48 @24629 has 568 MA's), (56, 24689), (71, 24791), (93, 24986),

Gene: Aonishiki_34 Start: 33591, Stop: 33980, Start Num: 48
Candidate Starts for Aonishiki_34:
(Start: 48 @33591 has 568 MA's), (Start: 51 @33615 has 1 MA's), (Start: 52 @33618 has 1 MA's), (70, 33747), (75, 33783), (90, 33918),

Gene: Apex_31 Start: 33953, Stop: 34345, Start Num: 48
Candidate Starts for Apex_31:
(3, 33479), (16, 33638), (25, 33713), (28, 33728), (29, 33734), (37, 33857), (38, 33860), (40, 33866), (Start: 41 @33872 has 2 MA's), (Start: 48 @33953 has 568 MA's), (49, 33959), (Start: 50 @33965 has 4 MA's), (Start: 53 @33989 has 2 MA's), (55, 34001), (56, 34013), (60, 34034), (61, 34037), (71, 34115), (72, 34127), (94, 34319),

Gene: Apizium_33 Start: 33311, Stop: 33700, Start Num: 48
Candidate Starts for Apizium_33:
(Start: 48 @33311 has 568 MA's), (Start: 51 @33335 has 1 MA's), (Start: 52 @33338 has 1 MA's), (70, 33467), (75, 33503), (90, 33638),

Gene: Appletree2_22 Start: 22816, Stop: 23199, Start Num: 48
Candidate Starts for Appletree2_22:
(Start: 48 @22816 has 568 MA's), (Start: 53 @22852 has 2 MA's), (54, 22855), (63, 22912), (69, 22960), (83, 23101), (97, 23182),

Gene: Arbiter_34 Start: 33966, Stop: 34355, Start Num: 48
Candidate Starts for Arbiter_34:
(Start: 48 @33966 has 568 MA's), (Start: 51 @33990 has 1 MA's), (Start: 52 @33993 has 1 MA's), (70, 34122), (75, 34158), (90, 34293),

Gene: Archie_23 Start: 21766, Stop: 22152, Start Num: 48
Candidate Starts for Archie_23:
(Start: 48 @21766 has 568 MA's), (79, 21991), (82, 22024), (85, 22066), (89, 22087), (91, 22105), (98, 22141),

Gene: Ares_34 Start: 33923, Stop: 34306, Start Num: 48
Candidate Starts for Ares_34:
(Start: 48 @33923 has 568 MA's), (60, 34004), (61, 34007), (75, 34115), (81, 34172), (87, 34229),

Gene: Argie_27 Start: 30901, Stop: 31281, Start Num: 48
Candidate Starts for Argie_27:
(Start: 48 @30901 has 568 MA's), (60, 30979), (61, 30982), (75, 31090), (81, 31147), (87, 31204), (95, 31258),

Gene: Arissanae_33 Start: 26035, Stop: 26418, Start Num: 48
Candidate Starts for Arissanae_33:
(Start: 48 @26035 has 568 MA's), (80, 26278), (81, 26284), (84, 26329), (94, 26392),

Gene: Ashraf_33 Start: 33115, Stop: 33504, Start Num: 48
Candidate Starts for Ashraf_33:
(Start: 48 @33115 has 568 MA's), (Start: 51 @33139 has 1 MA's), (Start: 52 @33142 has 1 MA's), (70, 33271), (75, 33307), (90, 33442),

Gene: Athena_35 Start: 34199, Stop: 34582, Start Num: 48
Candidate Starts for Athena_35:
(Start: 48 @34199 has 568 MA's), (60, 34280), (61, 34283), (75, 34391), (81, 34448), (87, 34505), (95, 34559),

Gene: Audrey_34 Start: 33448, Stop: 33831, Start Num: 48
Candidate Starts for Audrey_34:
(Start: 48 @33448 has 568 MA's), (60, 33529), (61, 33532), (75, 33640), (81, 33697), (87, 33754), (95, 33808),

Gene: Austelle_32 Start: 34409, Stop: 34801, Start Num: 48
Candidate Starts for Austelle_32:
(3, 33935), (16, 34094), (25, 34169), (28, 34184), (29, 34190), (37, 34313), (38, 34316), (40, 34322), (Start: 41 @34328 has 2 MA's), (Start: 48 @34409 has 568 MA's), (49, 34415), (Start: 50 @34421 has

4 MA's), (Start: 53 @34445 has 2 MA's), (55, 34457), (56, 34469), (60, 34490), (61, 34493), (71, 34571), (72, 34583), (94, 34775),

Gene: AvadaKedavra_22 Start: 22883, Stop: 23266, Start Num: 48
Candidate Starts for AvadaKedavra_22:
(Start: 48 @22883 has 568 MA's), (Start: 53 @22919 has 2 MA's), (54, 22922), (63, 22979), (83, 23168), (97, 23249),

Gene: Avocado_24 Start: 24672, Stop: 25055, Start Num: 48
Candidate Starts for Avocado_24:
(Start: 48 @24672 has 568 MA's), (Start: 52 @24699 has 1 MA's), (56, 24732), (75, 24864), (88, 24981), (93, 25023),

Gene: Azuria_33 Start: 33570, Stop: 33959, Start Num: 48
Candidate Starts for Azuria_33:
(Start: 48 @33570 has 568 MA's), (Start: 51 @33594 has 1 MA's), (Start: 52 @33597 has 1 MA's), (70, 33726), (75, 33762), (90, 33897),

Gene: BabeRuth_23 Start: 21267, Stop: 21647, Start Num: 48
Candidate Starts for BabeRuth_23:
(1, 20715), (8, 20889), (14, 20943), (17, 20958), (23, 21003), (Start: 48 @21267 has 568 MA's), (57, 21327), (59, 21342), (61, 21348), (70, 21420), (77, 21462), (79, 21486), (81, 21513), (90, 21585),

Gene: Badfish_34 Start: 33577, Stop: 33966, Start Num: 48
Candidate Starts for Badfish_34:
(Start: 48 @33577 has 568 MA's), (Start: 51 @33601 has 1 MA's), (Start: 52 @33604 has 1 MA's), (70, 33733), (75, 33769), (90, 33904),

Gene: Baee_32 Start: 33932, Stop: 34321, Start Num: 48
Candidate Starts for Baee_32:
(10, 33575), (Start: 48 @33932 has 568 MA's), (Start: 53 @33971 has 2 MA's), (55, 33983), (75, 34127), (81, 34184), (87, 34241),

Gene: Baloo_34 Start: 33451, Stop: 33834, Start Num: 48
Candidate Starts for Baloo_34:
(Start: 48 @33451 has 568 MA's), (60, 33532), (61, 33535), (75, 33643), (81, 33700), (87, 33757), (95, 33811),

Gene: Bananafish_34 Start: 33886, Stop: 34275, Start Num: 48
Candidate Starts for Bananafish_34:
(Start: 48 @33886 has 568 MA's), (Start: 51 @33910 has 1 MA's), (Start: 52 @33913 has 1 MA's), (70, 34042), (75, 34078), (90, 34213),

Gene: Banjo_33 Start: 33253, Stop: 33642, Start Num: 48
Candidate Starts for Banjo_33:
(Start: 48 @33253 has 568 MA's), (Start: 51 @33277 has 1 MA's), (Start: 52 @33280 has 1 MA's), (70, 33409), (75, 33445), (90, 33580),

Gene: Baoshan_22 Start: 21375, Stop: 21761, Start Num: 48
Candidate Starts for Baoshan_22:
(Start: 48 @21375 has 568 MA's), (79, 21600), (82, 21633), (85, 21675), (89, 21696), (91, 21714), (94, 21735), (98, 21750),

Gene: Basato_35 Start: 33832, Stop: 34221, Start Num: 48
Candidate Starts for Basato_35:
(Start: 48 @33832 has 568 MA's), (Start: 51 @33856 has 1 MA's), (Start: 52 @33859 has 1 MA's), (70, 33988), (75, 34024), (90, 34159),

Gene: BatteryCK_33 Start: 33172, Stop: 33561, Start Num: 48
Candidate Starts for BatteryCK_33:
(Start: 48 @33172 has 568 MA's), (Start: 51 @33196 has 1 MA's), (Start: 52 @33199 has 1 MA's), (70, 33328), (75, 33364), (90, 33499),

Gene: Baudelaire_24 Start: 21274, Stop: 21666, Start Num: 47
Candidate Starts for Baudelaire_24:
(Start: 47 @21274 has 2 MA's), (55, 21328), (61, 21364), (63, 21376), (79, 21505), (83, 21568), (86, 21583), (89, 21601), (91, 21619), (94, 21640), (98, 21655),

Gene: Bazzle_23 Start: 21515, Stop: 21901, Start Num: 48
Candidate Starts for Bazzle_23:
(Start: 48 @21515 has 568 MA's), (79, 21740), (82, 21773), (85, 21815), (89, 21836), (91, 21854), (98, 21890),

Gene: Beaglebox_33 Start: 33274, Stop: 33663, Start Num: 48
Candidate Starts for Beaglebox_33:
(Start: 48 @33274 has 568 MA's), (Start: 51 @33298 has 1 MA's), (Start: 52 @33301 has 1 MA's), (70, 33430), (75, 33466), (90, 33601),

Gene: Bellis_23 Start: 23497, Stop: 23880, Start Num: 48
Candidate Starts for Bellis_23:
(Start: 48 @23497 has 568 MA's), (56, 23557), (80, 23740), (84, 23791), (87, 23803), (96, 23860),

Gene: Ben11_33 Start: 33270, Stop: 33653, Start Num: 48
Candidate Starts for Ben11_33:
(Start: 48 @33270 has 568 MA's), (60, 33351), (61, 33354), (75, 33462), (81, 33519), (87, 33576), (95, 33630),

Gene: Bernardo_34 Start: 33538, Stop: 33921, Start Num: 48
Candidate Starts for Bernardo_34:
(Start: 48 @33538 has 568 MA's), (60, 33619), (61, 33622), (75, 33730), (81, 33787), (87, 33844), (95, 33898),

Gene: BigCheese_23 Start: 21550, Stop: 21936, Start Num: 48
Candidate Starts for BigCheese_23:
(Start: 48 @21550 has 568 MA's), (69, 21694), (79, 21775), (82, 21808), (85, 21850), (89, 21871), (91, 21889), (94, 21910),

Gene: BigPhil_22 Start: 21480, Stop: 21863, Start Num: 48
Candidate Starts for BigPhil_22:
(8, 21102), (10, 21123), (14, 21156), (17, 21171), (23, 21216), (Start: 48 @21480 has 568 MA's), (61, 21564), (70, 21636), (77, 21678), (79, 21702), (81, 21729), (90, 21801),

Gene: BirdsNest_35 Start: 32205, Stop: 32594, Start Num: 48
Candidate Starts for BirdsNest_35:
(Start: 48 @32205 has 568 MA's), (56, 32265), (63, 32301),

Gene: Bishoperium_33 Start: 33262, Stop: 33651, Start Num: 48
Candidate Starts for Bishoperium_33:
(Start: 48 @33262 has 568 MA's), (Start: 51 @33286 has 1 MA's), (Start: 52 @33289 has 1 MA's), (70, 33418), (75, 33454), (90, 33589),

Gene: BlackStallion_34 Start: 33564, Stop: 33953, Start Num: 48
Candidate Starts for BlackStallion_34:
(Start: 48 @33564 has 568 MA's), (Start: 51 @33588 has 1 MA's), (Start: 52 @33591 has 1 MA's), (70, 33720), (75, 33756), (90, 33891),

Gene: BlacksBerry_33 Start: 33280, Stop: 33669, Start Num: 48
Candidate Starts for BlacksBerry_33:
(Start: 48 @33280 has 568 MA's), (Start: 51 @33304 has 1 MA's), (Start: 52 @33307 has 1 MA's), (70, 33436), (75, 33472), (90, 33607),

Gene: Blocker23_34 Start: 34004, Stop: 34393, Start Num: 48
Candidate Starts for Blocker23_34:
(Start: 48 @34004 has 568 MA's), (Start: 51 @34028 has 1 MA's), (Start: 52 @34031 has 1 MA's), (70, 34160), (75, 34196), (90, 34331),

Gene: BlueHusk_34 Start: 33061, Stop: 33450, Start Num: 48
Candidate Starts for BlueHusk_34:
(Start: 48 @33061 has 568 MA's), (Start: 51 @33085 has 1 MA's), (Start: 52 @33088 has 1 MA's), (70, 33217), (75, 33253), (90, 33388),

Gene: Bluephacebaby_33 Start: 33259, Stop: 33648, Start Num: 48
Candidate Starts for Bluephacebaby_33:
(Start: 48 @33259 has 568 MA's), (Start: 51 @33283 has 1 MA's), (Start: 52 @33286 has 1 MA's), (70, 33415), (75, 33451), (90, 33586),

Gene: BobbyK_31 Start: 33697, Stop: 34170, Start Num: 41
Candidate Starts for BobbyK_31:
(3, 33304), (16, 33463), (25, 33538), (28, 33553), (29, 33559), (37, 33682), (38, 33685), (40, 33691), (Start: 41 @33697 has 2 MA's), (Start: 48 @33778 has 568 MA's), (49, 33784), (Start: 50 @33790 has 4 MA's), (Start: 53 @33814 has 2 MA's), (55, 33826), (56, 33838), (60, 33859), (61, 33862), (71, 33940), (72, 33952), (94, 34144),

Gene: BobsGarage_23 Start: 21550, Stop: 21936, Start Num: 48
Candidate Starts for BobsGarage_23:
(Start: 48 @21550 has 568 MA's), (69, 21694), (79, 21775), (82, 21808), (85, 21850), (89, 21871), (91, 21889), (94, 21910),

Gene: Boehler_34 Start: 33565, Stop: 33954, Start Num: 48
Candidate Starts for Boehler_34:
(Start: 48 @33565 has 568 MA's), (Start: 51 @33589 has 1 MA's), (Start: 52 @33592 has 1 MA's), (70, 33721), (75, 33757), (83, 33856), (90, 33892),

Gene: BoogieWoogie_34 Start: 33246, Stop: 33635, Start Num: 48
Candidate Starts for BoogieWoogie_34:
(Start: 48 @33246 has 568 MA's), (Start: 51 @33270 has 1 MA's), (Start: 52 @33273 has 1 MA's), (70, 33402), (75, 33438), (90, 33573),

Gene: BourbonZero_22 Start: 23454, Stop: 23837, Start Num: 48

Candidate Starts for BourbonZero_22:
(Start: 48 @23454 has 568 MA's), (56, 23514), (80, 23697), (84, 23748), (96, 23817),

Gene: Boyle_34 Start: 34005, Stop: 34394, Start Num: 48
Candidate Starts for Boyle_34:
(Start: 48 @34005 has 568 MA's), (Start: 51 @34029 has 1 MA's), (Start: 52 @34032 has 1 MA's), (70, 34161), (75, 34197), (90, 34332),

Gene: BrainDrainer_23 Start: 22741, Stop: 23124, Start Num: 48
Candidate Starts for BrainDrainer_23:
(Start: 48 @22741 has 568 MA's), (68, 22882), (71, 22903), (83, 23026),

Gene: Breezona_23 Start: 21550, Stop: 21936, Start Num: 48
Candidate Starts for Breezona_23:
(Start: 48 @21550 has 568 MA's), (69, 21694), (79, 21775), (82, 21808), (85, 21850), (89, 21871), (91, 21889), (94, 21910),

Gene: Briakila_35 Start: 34218, Stop: 34601, Start Num: 48
Candidate Starts for Briakila_35:
(Start: 48 @34218 has 568 MA's), (55, 34266), (62, 34308), (81, 34467), (87, 34524),

Gene: Brilliant_34 Start: 33270, Stop: 33659, Start Num: 48
Candidate Starts for Brilliant_34:
(Start: 48 @33270 has 568 MA's), (Start: 51 @33294 has 1 MA's), (Start: 52 @33297 has 1 MA's), (70, 33426), (75, 33462), (90, 33597),

Gene: Brocalys_22 Start: 21294, Stop: 21674, Start Num: 48
Candidate Starts for Brocalys_22:
(12, 20964), (13, 20967), (14, 20970), (17, 20985), (20, 21021), (22, 21027), (Start: 48 @21294 has 568 MA's), (57, 21354), (70, 21447), (81, 21540), (90, 21612),

Gene: BrownCNA_32 Start: 34039, Stop: 34431, Start Num: 48
Candidate Starts for BrownCNA_32:
(32, 33919), (37, 33943), (40, 33952), (44, 33985), (Start: 48 @34039 has 568 MA's), (49, 34045), (Start: 50 @34051 has 4 MA's), (Start: 53 @34075 has 2 MA's), (55, 34087), (56, 34099), (60, 34120), (61, 34123), (71, 34201), (72, 34213), (94, 34405),

Gene: Brownie5_34 Start: 34011, Stop: 34400, Start Num: 48
Candidate Starts for Brownie5_34:
(Start: 48 @34011 has 568 MA's), (Start: 51 @34035 has 1 MA's), (Start: 52 @34038 has 1 MA's), (70, 34167), (75, 34203), (90, 34338),

Gene: Buckeye_34 Start: 33582, Stop: 33971, Start Num: 48
Candidate Starts for Buckeye_34:
(Start: 48 @33582 has 568 MA's), (Start: 51 @33606 has 1 MA's), (Start: 52 @33609 has 1 MA's), (70, 33738), (75, 33774), (90, 33909),

Gene: Burr_33 Start: 33259, Stop: 33648, Start Num: 48
Candidate Starts for Burr_33:
(Start: 48 @33259 has 568 MA's), (Start: 51 @33283 has 1 MA's), (Start: 52 @33286 has 1 MA's), (70, 33415), (75, 33451), (90, 33586),

Gene: CRB2_36 Start: 35919, Stop: 36302, Start Num: 48

Candidate Starts for CRB2_36:
(Start: 48 @35919 has 568 MA's), (56, 35979), (65, 36042), (70, 36075), (71, 36081), (90, 36240), (92, 36261),

Gene: Calamitous_34 Start: 33891, Stop: 34280, Start Num: 48
Candidate Starts for Calamitous_34:
(Start: 48 @33891 has 568 MA's), (Start: 51 @33915 has 1 MA's), (Start: 52 @33918 has 1 MA's), (70, 34047), (75, 34083), (90, 34218),

Gene: Calm_22 Start: 22887, Stop: 23270, Start Num: 48
Candidate Starts for Calm_22:
(Start: 48 @22887 has 568 MA's), (Start: 53 @22923 has 2 MA's), (54, 22926), (63, 22983), (83, 23172), (97, 23253),

Gene: CamL_34 Start: 33560, Stop: 33949, Start Num: 48
Candidate Starts for CamL_34:
(Start: 48 @33560 has 568 MA's), (Start: 51 @33584 has 1 MA's), (Start: 52 @33587 has 1 MA's), (70, 33716), (75, 33752), (90, 33887),

Gene: Cambiare_25 Start: 25137, Stop: 25520, Start Num: 48
Candidate Starts for Cambiare_25:
(Start: 48 @25137 has 568 MA's), (Start: 52 @25164 has 1 MA's), (56, 25197), (75, 25329), (88, 25446), (93, 25488),

Gene: CampRoach_34 Start: 33550, Stop: 33939, Start Num: 48
Candidate Starts for CampRoach_34:
(Start: 48 @33550 has 568 MA's), (Start: 51 @33574 has 1 MA's), (Start: 52 @33577 has 1 MA's), (70, 33706), (75, 33742), (90, 33877),

Gene: Cannibal_34 Start: 33543, Stop: 33932, Start Num: 48
Candidate Starts for Cannibal_34:
(Start: 48 @33543 has 568 MA's), (Start: 51 @33567 has 1 MA's), (Start: 52 @33570 has 1 MA's), (70, 33699), (75, 33735), (90, 33870),

Gene: Carthage_32 Start: 32472, Stop: 32861, Start Num: 48
Candidate Starts for Carthage_32:
(Start: 48 @32472 has 568 MA's), (Start: 51 @32496 has 1 MA's), (Start: 52 @32499 has 1 MA's), (70, 32628), (75, 32664), (90, 32799),

Gene: Casbah_33 Start: 33300, Stop: 33683, Start Num: 48
Candidate Starts for Casbah_33:
(Start: 48 @33300 has 568 MA's), (60, 33381), (61, 33384), (75, 33492), (81, 33549), (87, 33606), (95, 33660),

Gene: Caspiboi_33 Start: 33269, Stop: 33658, Start Num: 48
Candidate Starts for Caspiboi_33:
(Start: 48 @33269 has 568 MA's), (Start: 51 @33293 has 1 MA's), (Start: 52 @33296 has 1 MA's), (70, 33425), (75, 33461), (90, 33596),

Gene: Caterpie_30 Start: 30634, Stop: 31023, Start Num: 48
Candidate Starts for Caterpie_30:
(Start: 48 @30634 has 568 MA's), (56, 30694), (60, 30715), (74, 30823), (75, 30826), (90, 30961),

Gene: Cepens_26 Start: 30616, Stop: 30996, Start Num: 48
Candidate Starts for Cepens_26:
(Start: 48 @30616 has 568 MA's), (60, 30694), (61, 30697), (70, 30769), (75, 30805), (81, 30862), (87, 30919),

Gene: Cerasum_22 Start: 21480, Stop: 21863, Start Num: 48
Candidate Starts for Cerasum_22:
(8, 21102), (10, 21123), (14, 21156), (17, 21171), (23, 21216), (Start: 48 @21480 has 568 MA's), (61, 21564), (70, 21636), (77, 21678), (79, 21702), (81, 21729), (90, 21801),

Gene: ChaChing_34 Start: 33463, Stop: 33846, Start Num: 48
Candidate Starts for ChaChing_34:
(Start: 48 @33463 has 568 MA's), (60, 33544), (61, 33547), (75, 33655), (81, 33712), (87, 33769), (95, 33823),

Gene: Chaelin_34 Start: 33257, Stop: 33646, Start Num: 48
Candidate Starts for Chaelin_34:
(Start: 48 @33257 has 568 MA's), (Start: 51 @33281 has 1 MA's), (Start: 52 @33284 has 1 MA's), (70, 33413), (75, 33449), (90, 33584),

Gene: Chah_35 Start: 33577, Stop: 33966, Start Num: 48
Candidate Starts for Chah_35:
(Start: 48 @33577 has 568 MA's), (Start: 51 @33601 has 1 MA's), (Start: 52 @33604 has 1 MA's), (70, 33733), (75, 33769), (90, 33904),

Gene: Chalmers_34 Start: 34255, Stop: 34638, Start Num: 48
Candidate Starts for Chalmers_34:
(Start: 48 @34255 has 568 MA's), (60, 34336), (61, 34339), (75, 34447), (81, 34504), (87, 34561), (95, 34615),

Gene: Chandler_34 Start: 34231, Stop: 34614, Start Num: 48
Candidate Starts for Chandler_34:
(Start: 48 @34231 has 568 MA's), (60, 34312), (61, 34315), (75, 34423), (81, 34480), (87, 34537), (95, 34591),

Gene: Charles1_34 Start: 33545, Stop: 33934, Start Num: 48
Candidate Starts for Charles1_34:
(Start: 48 @33545 has 568 MA's), (Start: 51 @33569 has 1 MA's), (Start: 52 @33572 has 1 MA's), (70, 33701), (75, 33737), (90, 33872),

Gene: CharlieGBrown_33 Start: 33135, Stop: 33524, Start Num: 48
Candidate Starts for CharlieGBrown_33:
(Start: 48 @33135 has 568 MA's), (Start: 51 @33159 has 1 MA's), (Start: 52 @33162 has 1 MA's), (70, 33291), (75, 33327), (90, 33462),

Gene: CheetO_34 Start: 33559, Stop: 33948, Start Num: 48
Candidate Starts for CheetO_34:
(Start: 48 @33559 has 568 MA's), (Start: 51 @33583 has 1 MA's), (Start: 52 @33586 has 1 MA's), (70, 33715), (75, 33751), (90, 33886),

Gene: ChengKai98_23 Start: 21555, Stop: 21941, Start Num: 48
Candidate Starts for ChengKai98_23:

(Start: 48 @21555 has 568 MA's), (79, 21780), (82, 21813), (85, 21855), (86, 21858), (89, 21876), (91, 21894), (98, 21930),

Gene: Chentzyk_33 Start: 33321, Stop: 33704, Start Num: 48
Candidate Starts for Chentzyk_33:
(Start: 48 @33321 has 568 MA's), (60, 33402), (61, 33405), (75, 33513), (81, 33570), (87, 33627), (95, 33681),

Gene: Cher_33 Start: 33282, Stop: 33671, Start Num: 48
Candidate Starts for Cher_33:
(Start: 48 @33282 has 568 MA's), (Start: 51 @33306 has 1 MA's), (Start: 52 @33309 has 1 MA's), (70, 33438), (75, 33474), (90, 33609),

Gene: Childish_33 Start: 33285, Stop: 33674, Start Num: 48
Candidate Starts for Childish_33:
(Start: 48 @33285 has 568 MA's), (Start: 51 @33309 has 1 MA's), (Start: 52 @33312 has 1 MA's), (70, 33441), (75, 33477), (90, 33612),

Gene: ChipMunk_35 Start: 26568, Stop: 26960, Start Num: 48
Candidate Starts for ChipMunk_35:
(Start: 48 @26568 has 568 MA's), (Start: 50 @26580 has 4 MA's), (57, 26631), (77, 26772),

Gene: Chipette_35 Start: 33775, Stop: 34164, Start Num: 48
Candidate Starts for Chipette_35:
(Start: 48 @33775 has 568 MA's), (Start: 51 @33799 has 1 MA's), (Start: 52 @33802 has 1 MA's), (70, 33931), (75, 33967), (90, 34102),

Gene: Chorkpop_34 Start: 33281, Stop: 33670, Start Num: 48
Candidate Starts for Chorkpop_34:
(Start: 48 @33281 has 568 MA's), (Start: 51 @33305 has 1 MA's), (Start: 52 @33308 has 1 MA's), (70, 33437), (75, 33473), (90, 33608),

Gene: ChrisnMich_30 Start: 32750, Stop: 33130, Start Num: 50
Candidate Starts for ChrisnMich_30:
(16, 32423), (25, 32498), (27, 32507), (28, 32513), (37, 32642), (40, 32651), (Start: 41 @32657 has 2 MA's), (42, 32672), (44, 32684), (Start: 48 @32738 has 568 MA's), (49, 32744), (Start: 50 @32750 has 4 MA's), (Start: 53 @32774 has 2 MA's), (55, 32786), (56, 32798), (60, 32819), (61, 32822), (71, 32900), (72, 32912), (94, 33104),

Gene: Chuni_34 Start: 33576, Stop: 33965, Start Num: 48
Candidate Starts for Chuni_34:
(Start: 48 @33576 has 568 MA's), (Start: 51 @33600 has 1 MA's), (Start: 52 @33603 has 1 MA's), (70, 33732), (75, 33768), (90, 33903),

Gene: Chunky_34 Start: 33568, Stop: 33957, Start Num: 48
Candidate Starts for Chunky_34:
(Start: 48 @33568 has 568 MA's), (Start: 51 @33592 has 1 MA's), (Start: 52 @33595 has 1 MA's), (70, 33724), (75, 33760), (90, 33895),

Gene: Chute_34 Start: 33606, Stop: 33995, Start Num: 48
Candidate Starts for Chute_34:
(Start: 48 @33606 has 568 MA's), (Start: 51 @33630 has 1 MA's), (Start: 52 @33633 has 1 MA's), (70, 33762), (75, 33798), (90, 33933),

Gene: CicholasNage_22 Start: 22875, Stop: 23258, Start Num: 48
Candidate Starts for CicholasNage_22:
(Start: 48 @22875 has 568 MA's), (Start: 53 @22911 has 2 MA's), (54, 22914), (63, 22971), (83, 23160), (97, 23241),

Gene: Claus_23 Start: 21531, Stop: 21917, Start Num: 48
Candidate Starts for Claus_23:
(Start: 48 @21531 has 568 MA's), (79, 21756), (82, 21789), (89, 21852), (91, 21870), (94, 21891), (98, 21906),

Gene: Clautastrophe_23 Start: 23494, Stop: 23877, Start Num: 48
Candidate Starts for Clautastrophe_23:
(Start: 48 @23494 has 568 MA's), (56, 23554), (63, 23590), (80, 23737), (84, 23788), (87, 23800), (96, 23857),

Gene: Clifton_21 Start: 21607, Stop: 21987, Start Num: 48
Candidate Starts for Clifton_21:
(1, 21055), (8, 21229), (12, 21277), (13, 21280), (14, 21283), (17, 21298), (20, 21334), (22, 21340), (Start: 48 @21607 has 568 MA's), (57, 21667), (70, 21760), (81, 21853), (90, 21925),

Gene: Cloudyecho_24 Start: 24503, Stop: 24886, Start Num: 48
Candidate Starts for Cloudyecho_24:
(2, 24005), (11, 24167), (12, 24173), (19, 24215), (21, 24233), (31, 24377), (32, 24383), (35, 24395), (Start: 48 @24503 has 568 MA's), (73, 24683), (78, 24719), (83, 24788),

Gene: Cobra_34 Start: 33566, Stop: 33955, Start Num: 48
Candidate Starts for Cobra_34:
(Start: 48 @33566 has 568 MA's), (Start: 51 @33590 has 1 MA's), (Start: 52 @33593 has 1 MA's), (70, 33722), (75, 33758), (90, 33893),

Gene: Coffee_34 Start: 33994, Stop: 34383, Start Num: 48
Candidate Starts for Coffee_34:
(Start: 48 @33994 has 568 MA's), (Start: 51 @34018 has 1 MA's), (Start: 52 @34021 has 1 MA's), (70, 34150), (75, 34186), (90, 34321),

Gene: Colbert_34 Start: 33621, Stop: 34010, Start Num: 48
Candidate Starts for Colbert_34:
(Start: 48 @33621 has 568 MA's), (Start: 51 @33645 has 1 MA's), (Start: 52 @33648 has 1 MA's), (70, 33777), (75, 33813), (83, 33912), (90, 33948),

Gene: Coletti_34 Start: 33606, Stop: 33995, Start Num: 48
Candidate Starts for Coletti_34:
(Start: 48 @33606 has 568 MA's), (Start: 51 @33630 has 1 MA's), (Start: 52 @33633 has 1 MA's), (70, 33762), (75, 33798), (90, 33933),

Gene: Compostia_35 Start: 33879, Stop: 34262, Start Num: 48
Candidate Starts for Compostia_35:
(Start: 48 @33879 has 568 MA's), (Start: 53 @33915 has 2 MA's), (55, 33927), (62, 33969), (81, 34128), (87, 34185),

Gene: Cooper_31 Start: 32957, Stop: 33352, Start Num: 48
Candidate Starts for Cooper_31:

(37, 32861), (43, 32894), (Start: 48 @32957 has 568 MA's), (49, 32963), (Start: 50 @32969 has 4 MA's), (Start: 53 @32993 has 2 MA's), (56, 33017), (60, 33038), (61, 33041), (71, 33119), (72, 33131), (94, 33323),

Gene: Cornbread_33 Start: 33282, Stop: 33671, Start Num: 48
Candidate Starts for Cornbread_33:
(Start: 48 @33282 has 568 MA's), (Start: 51 @33306 has 1 MA's), (Start: 52 @33309 has 1 MA's), (70, 33438), (75, 33474), (90, 33609),

Gene: Cornobble_33 Start: 33120, Stop: 33509, Start Num: 48
Candidate Starts for Cornobble_33:
(Start: 48 @33120 has 568 MA's), (Start: 51 @33144 has 1 MA's), (Start: 52 @33147 has 1 MA's), (70, 33276), (75, 33312), (90, 33447),

Gene: Corofin_34 Start: 33474, Stop: 33857, Start Num: 48
Candidate Starts for Corofin_34:
(Start: 48 @33474 has 568 MA's), (60, 33555), (61, 33558), (75, 33666), (81, 33723), (87, 33780), (95, 33834),

Gene: Cosmolli16_33 Start: 33270, Stop: 33659, Start Num: 48
Candidate Starts for Cosmolli16_33:
(Start: 48 @33270 has 568 MA's), (Start: 51 @33294 has 1 MA's), (Start: 52 @33297 has 1 MA's), (70, 33426), (75, 33462), (83, 33561), (90, 33597),

Gene: Craff_34 Start: 33563, Stop: 33952, Start Num: 48
Candidate Starts for Craff_34:
(Start: 48 @33563 has 568 MA's), (Start: 51 @33587 has 1 MA's), (Start: 52 @33590 has 1 MA's), (70, 33719), (75, 33755), (90, 33890),

Gene: Crossroads_23 Start: 21550, Stop: 21936, Start Num: 48
Candidate Starts for Crossroads_23:
(Start: 48 @21550 has 568 MA's), (69, 21694), (79, 21775), (82, 21808), (85, 21850), (89, 21871), (91, 21889), (94, 21910),

Gene: Crownjwl_34 Start: 33336, Stop: 33725, Start Num: 48
Candidate Starts for Crownjwl_34:
(Start: 48 @33336 has 568 MA's), (Start: 51 @33360 has 1 MA's), (Start: 52 @33363 has 1 MA's), (70, 33492), (75, 33528), (90, 33663),

Gene: Crumble_21 Start: 21654, Stop: 22034, Start Num: 48
Candidate Starts for Crumble_21:
(1, 21102), (8, 21276), (12, 21324), (13, 21327), (14, 21330), (17, 21345), (20, 21381), (22, 21387), (Start: 48 @21654 has 568 MA's), (57, 21714), (70, 21807), (81, 21900), (90, 21972),

Gene: D12_26 Start: 31183, Stop: 31566, Start Num: 48
Candidate Starts for D12_26:
(Start: 48 @31183 has 568 MA's), (60, 31264), (61, 31267), (75, 31375), (87, 31489), (95, 31543),

Gene: DHan_23 Start: 21467, Stop: 21853, Start Num: 48
Candidate Starts for DHan_23:
(Start: 48 @21467 has 568 MA's), (79, 21692), (82, 21725), (89, 21788), (91, 21806), (94, 21827), (98, 21842),

Gene: DaddyDaniels_34 Start: 33254, Stop: 33643, Start Num: 48
Candidate Starts for DaddyDaniels_34:
(Start: 48 @33254 has 568 MA's), (Start: 51 @33278 has 1 MA's), (Start: 52 @33281 has 1 MA's), (70, 33410), (75, 33446), (90, 33581),

Gene: Daffy_34 Start: 33285, Stop: 33674, Start Num: 48
Candidate Starts for Daffy_34:
(Start: 48 @33285 has 568 MA's), (Start: 51 @33309 has 1 MA's), (Start: 52 @33312 has 1 MA's), (70, 33441), (75, 33477), (90, 33612),

Gene: Daisy_34 Start: 33475, Stop: 33858, Start Num: 48
Candidate Starts for Daisy_34:
(Start: 48 @33475 has 568 MA's), (60, 33556), (61, 33559), (75, 33667), (81, 33724), (87, 33781), (95, 33835),

Gene: Daka_34 Start: 33559, Stop: 33948, Start Num: 48
Candidate Starts for Daka_34:
(Start: 48 @33559 has 568 MA's), (Start: 51 @33583 has 1 MA's), (Start: 52 @33586 has 1 MA's), (70, 33715), (75, 33751), (83, 33850), (90, 33886),

Gene: DanBing_22 Start: 21371, Stop: 21757, Start Num: 48
Candidate Starts for DanBing_22:
(Start: 48 @21371 has 568 MA's), (79, 21596), (82, 21629), (85, 21671), (89, 21692), (91, 21710), (94, 21731), (98, 21746),

Gene: Dati_34 Start: 33279, Stop: 33668, Start Num: 48
Candidate Starts for Dati_34:
(Start: 48 @33279 has 568 MA's), (Start: 51 @33303 has 1 MA's), (Start: 52 @33306 has 1 MA's), (70, 33435), (75, 33471), (90, 33606),

Gene: Deenasa_34 Start: 34214, Stop: 34597, Start Num: 48
Candidate Starts for Deenasa_34:
(Start: 48 @34214 has 568 MA's), (60, 34295), (61, 34298), (75, 34406), (81, 34463), (87, 34520), (95, 34574),

Gene: DelRivs_33 Start: 33280, Stop: 33669, Start Num: 48
Candidate Starts for DelRivs_33:
(Start: 48 @33280 has 568 MA's), (Start: 51 @33304 has 1 MA's), (Start: 52 @33307 has 1 MA's), (70, 33436), (75, 33472), (90, 33607),

Gene: Derpp_33 Start: 33124, Stop: 33513, Start Num: 48
Candidate Starts for Derpp_33:
(Start: 48 @33124 has 568 MA's), (Start: 51 @33148 has 1 MA's), (Start: 52 @33151 has 1 MA's), (70, 33280), (75, 33316), (90, 33451),

Gene: Devonte_34 Start: 33439, Stop: 33822, Start Num: 48
Candidate Starts for Devonte_34:
(Start: 48 @33439 has 568 MA's), (60, 33520), (61, 33523), (75, 33631), (81, 33688), (87, 33745), (95, 33799),

Gene: Dice_33 Start: 33259, Stop: 33648, Start Num: 48
Candidate Starts for Dice_33:

(Start: 48 @33259 has 568 MA's), (Start: 51 @33283 has 1 MA's), (Start: 52 @33286 has 1 MA's), (70, 33415), (75, 33451), (90, 33586),

Gene: DigitDog_33 Start: 33714, Stop: 34103, Start Num: 48
Candidate Starts for DigitDog_33:
(5, 33273), (10, 33357), (20, 33441), (Start: 48 @33714 has 568 MA's), (55, 33762), (75, 33906), (81, 33963),

Gene: Dingo_34 Start: 33542, Stop: 33931, Start Num: 48
Candidate Starts for Dingo_34:
(Start: 48 @33542 has 568 MA's), (Start: 51 @33566 has 1 MA's), (Start: 52 @33569 has 1 MA's), (70, 33698), (75, 33734), (90, 33869),

Gene: Dione_33 Start: 33264, Stop: 33653, Start Num: 48
Candidate Starts for Dione_33:
(Start: 48 @33264 has 568 MA's), (Start: 51 @33288 has 1 MA's), (Start: 52 @33291 has 1 MA's), (70, 33420), (75, 33456), (90, 33591),

Gene: DirkDirk_22 Start: 22856, Stop: 23239, Start Num: 48
Candidate Starts for DirkDirk_22:
(Start: 48 @22856 has 568 MA's), (Start: 53 @22892 has 2 MA's), (54, 22895), (63, 22952), (83, 23141), (97, 23222),

Gene: DirtJuice_34 Start: 33548, Stop: 33937, Start Num: 48
Candidate Starts for DirtJuice_34:
(Start: 48 @33548 has 568 MA's), (Start: 51 @33572 has 1 MA's), (Start: 52 @33575 has 1 MA's), (70, 33704), (75, 33740), (90, 33875),

Gene: Doddsville_34 Start: 33278, Stop: 33667, Start Num: 48
Candidate Starts for Doddsville_34:
(Start: 48 @33278 has 568 MA's), (Start: 51 @33302 has 1 MA's), (Start: 52 @33305 has 1 MA's), (70, 33434), (75, 33470), (90, 33605),

Gene: DoesntMatter_34 Start: 33551, Stop: 33940, Start Num: 48
Candidate Starts for DoesntMatter_34:
(Start: 48 @33551 has 568 MA's), (Start: 51 @33575 has 1 MA's), (Start: 52 @33578 has 1 MA's), (70, 33707), (75, 33743), (90, 33878),

Gene: DolOn_35 Start: 33812, Stop: 34177, Start Num: 51
Candidate Starts for DolOn_35:
(Start: 48 @33788 has 568 MA's), (Start: 51 @33812 has 1 MA's), (Start: 52 @33815 has 1 MA's), (70, 33944), (75, 33980), (90, 34115),

Gene: DonSanchon_33 Start: 33258, Stop: 33647, Start Num: 48
Candidate Starts for DonSanchon_33:
(Start: 48 @33258 has 568 MA's), (Start: 51 @33282 has 1 MA's), (Start: 52 @33285 has 1 MA's), (70, 33414), (75, 33450), (83, 33549), (90, 33585),

Gene: Donny_33 Start: 34126, Stop: 34509, Start Num: 48
Candidate Starts for Donny_33:
(5, 33685), (10, 33769), (Start: 48 @34126 has 568 MA's), (60, 34207), (75, 34318), (81, 34375), (87, 34432),

Gene: Dori_30 Start: 30025, Stop: 30414, Start Num: 48
Candidate Starts for Dori_30:
(Start: 48 @30025 has 568 MA's), (56, 30085), (60, 30106), (75, 30217), (90, 30352),

Gene: Douzhi_22 Start: 22602, Stop: 22985, Start Num: 48
Candidate Starts for Douzhi_22:
(Start: 48 @22602 has 568 MA's), (68, 22743), (71, 22764), (83, 22887),

Gene: DrSeegs_23 Start: 21550, Stop: 21936, Start Num: 48
Candidate Starts for DrSeegs_23:
(Start: 48 @21550 has 568 MA's), (69, 21694), (79, 21775), (82, 21808), (85, 21850), (89, 21871), (91, 21889), (94, 21910),

Gene: DuchessDung_32 Start: 32415, Stop: 32804, Start Num: 48
Candidate Starts for DuchessDung_32:
(Start: 48 @32415 has 568 MA's), (Start: 51 @32439 has 1 MA's), (Start: 52 @32442 has 1 MA's), (70, 32571), (75, 32607), (90, 32742),

Gene: Duggie_33 Start: 33280, Stop: 33669, Start Num: 48
Candidate Starts for Duggie_33:
(Start: 48 @33280 has 568 MA's), (Start: 51 @33304 has 1 MA's), (Start: 52 @33307 has 1 MA's), (70, 33436), (75, 33472), (90, 33607),

Gene: DuncansLeg_23 Start: 23477, Stop: 23860, Start Num: 48
Candidate Starts for DuncansLeg_23:
(Start: 48 @23477 has 568 MA's), (64, 23579), (69, 23621), (80, 23720), (84, 23771), (96, 23840),

Gene: Durga_34 Start: 33578, Stop: 33967, Start Num: 48
Candidate Starts for Durga_34:
(Start: 48 @33578 has 568 MA's), (Start: 51 @33602 has 1 MA's), (Start: 52 @33605 has 1 MA's), (70, 33734), (75, 33770), (90, 33905),

Gene: Eaglehorse_34 Start: 33918, Stop: 34307, Start Num: 48
Candidate Starts for Eaglehorse_34:
(Start: 48 @33918 has 568 MA's), (Start: 51 @33942 has 1 MA's), (Start: 52 @33945 has 1 MA's), (70, 34074), (75, 34110), (90, 34245),

Gene: EastView9101_32 Start: 33776, Stop: 34159, Start Num: 48
Candidate Starts for EastView9101_32:
(5, 33335), (10, 33419), (Start: 48 @33776 has 568 MA's), (60, 33857), (75, 33968), (81, 34025), (87, 34082),

Gene: Ellson_23 Start: 23464, Stop: 23847, Start Num: 48
Candidate Starts for Ellson_23:
(Start: 48 @23464 has 568 MA's), (56, 23524), (64, 23566), (80, 23707), (84, 23758), (96, 23827),

Gene: ElvisPhasley_34 Start: 33600, Stop: 33989, Start Num: 48
Candidate Starts for ElvisPhasley_34:
(Start: 48 @33600 has 568 MA's), (Start: 51 @33624 has 1 MA's), (Start: 52 @33627 has 1 MA's), (70, 33756), (75, 33792), (90, 33927),

Gene: EmGer13_33 Start: 33119, Stop: 33508, Start Num: 48
Candidate Starts for EmGer13_33:

(Start: 48 @33119 has 568 MA's), (Start: 51 @33143 has 1 MA's), (Start: 52 @33146 has 1 MA's), (70, 33275), (75, 33311), (90, 33446),

Gene: Emiris_34 Start: 33549, Stop: 33938, Start Num: 48
Candidate Starts for Emiris_34:
(Start: 48 @33549 has 568 MA's), (Start: 51 @33573 has 1 MA's), (Start: 52 @33576 has 1 MA's), (70, 33705), (75, 33741), (90, 33876),

Gene: EmpTee_34 Start: 33558, Stop: 33947, Start Num: 48
Candidate Starts for EmpTee_34:
(Start: 48 @33558 has 568 MA's), (Start: 51 @33582 has 1 MA's), (Start: 52 @33585 has 1 MA's), (70, 33714), (75, 33750), (90, 33885),

Gene: Enceladus_22 Start: 22857, Stop: 23240, Start Num: 48
Candidate Starts for Enceladus_22:
(Start: 48 @22857 has 568 MA's), (Start: 53 @22893 has 2 MA's), (54, 22896), (63, 22953), (83, 23142), (97, 23223),

Gene: Epah_30 Start: 32758, Stop: 33138, Start Num: 50
Candidate Starts for Epah_30:
(3, 32272), (16, 32431), (25, 32506), (27, 32515), (28, 32521), (37, 32650), (40, 32659), (Start: 41 @32665 has 2 MA's), (42, 32680), (44, 32692), (Start: 48 @32746 has 568 MA's), (49, 32752), (Start: 50 @32758 has 4 MA's), (Start: 53 @32782 has 2 MA's), (55, 32794), (56, 32806), (60, 32827), (61, 32830), (71, 32908), (72, 32920), (94, 33112),

Gene: Eremos_34 Start: 33557, Stop: 33946, Start Num: 48
Candidate Starts for Eremos_34:
(Start: 48 @33557 has 568 MA's), (Start: 51 @33581 has 1 MA's), (Start: 52 @33584 has 1 MA's), (70, 33713), (75, 33749), (90, 33884),

Gene: Etaye_34 Start: 33548, Stop: 33937, Start Num: 48
Candidate Starts for Etaye_34:
(Start: 48 @33548 has 568 MA's), (Start: 51 @33572 has 1 MA's), (Start: 52 @33575 has 1 MA's), (70, 33704), (75, 33740), (90, 33875),

Gene: Eugenia_34 Start: 33567, Stop: 33956, Start Num: 48
Candidate Starts for Eugenia_34:
(Start: 48 @33567 has 568 MA's), (Start: 51 @33591 has 1 MA's), (Start: 52 @33594 has 1 MA's), (70, 33723), (75, 33759), (90, 33894),

Gene: EvilGenius_35 Start: 26576, Stop: 26968, Start Num: 48
Candidate Starts for EvilGenius_35:
(Start: 48 @26576 has 568 MA's), (Start: 50 @26588 has 4 MA's), (57, 26639), (77, 26780),

Gene: Faith1_23 Start: 21550, Stop: 21936, Start Num: 48
Candidate Starts for Faith1_23:
(Start: 48 @21550 has 568 MA's), (69, 21694), (79, 21775), (82, 21808), (85, 21850), (89, 21871), (91, 21889), (94, 21910),

Gene: Fanaw_30 Start: 33456, Stop: 33836, Start Num: 50
Candidate Starts for Fanaw_30:
(16, 33129), (25, 33204), (29, 33225), (37, 33348), (40, 33357), (Start: 41 @33363 has 2 MA's), (44, 33390), (Start: 48 @33444 has 568 MA's), (49, 33450), (Start: 50 @33456 has 4 MA's), (Start: 53

@33480 has 2 MA's), (55, 33492), (56, 33504), (60, 33525), (61, 33528), (71, 33606), (72, 33618), (94, 33810),

Gene: Fang_34 Start: 33571, Stop: 33960, Start Num: 48
Candidate Starts for Fang_34:
(Start: 48 @33571 has 568 MA's), (Start: 51 @33595 has 1 MA's), (Start: 52 @33598 has 1 MA's), (70, 33727), (75, 33763), (83, 33862), (90, 33898),

Gene: Faze9_34 Start: 34014, Stop: 34403, Start Num: 48
Candidate Starts for Faze9_34:
(Start: 48 @34014 has 568 MA's), (Start: 51 @34038 has 1 MA's), (Start: 52 @34041 has 1 MA's), (70, 34170), (75, 34206), (90, 34341),

Gene: Finemlucis_23 Start: 21558, Stop: 21944, Start Num: 48
Candidate Starts for Finemlucis_23:
(Start: 48 @21558 has 568 MA's), (69, 21702), (79, 21783), (82, 21816), (85, 21858), (89, 21879), (91, 21897), (94, 21918),

Gene: Finnry_23 Start: 23498, Stop: 23881, Start Num: 48
Candidate Starts for Finnry_23:
(Start: 48 @23498 has 568 MA's), (56, 23558), (80, 23741), (84, 23792), (87, 23804), (96, 23861),

Gene: FlagStaff_24 Start: 24498, Stop: 24881, Start Num: 48
Candidate Starts for FlagStaff_24:
(Start: 48 @24498 has 568 MA's), (54, 24537), (73, 24678), (87, 24804), (90, 24819),

Gene: Flake_34 Start: 33613, Stop: 34002, Start Num: 48
Candidate Starts for Flake_34:
(Start: 48 @33613 has 568 MA's), (Start: 51 @33637 has 1 MA's), (Start: 52 @33640 has 1 MA's), (70, 33769), (75, 33805), (90, 33940),

Gene: FleetyMac_34 Start: 33566, Stop: 33955, Start Num: 48
Candidate Starts for FleetyMac_34:
(Start: 48 @33566 has 568 MA's), (Start: 51 @33590 has 1 MA's), (Start: 52 @33593 has 1 MA's), (70, 33722), (75, 33758), (90, 33893),

Gene: FluffyNinja_34 Start: 33564, Stop: 33953, Start Num: 48
Candidate Starts for FluffyNinja_34:
(Start: 48 @33564 has 568 MA's), (Start: 51 @33588 has 1 MA's), (Start: 52 @33591 has 1 MA's), (70, 33720), (75, 33756), (90, 33891),

Gene: ForDig_28 Start: 31292, Stop: 31678, Start Num: 48
Candidate Starts for ForDig_28:
(Start: 48 @31292 has 568 MA's), (Start: 52 @31319 has 1 MA's), (61, 31379), (77, 31493), (87, 31601),

Gene: Fozzie_33 Start: 33580, Stop: 33969, Start Num: 48
Candidate Starts for Fozzie_33:
(Start: 48 @33580 has 568 MA's), (Start: 51 @33604 has 1 MA's), (Start: 52 @33607 has 1 MA's), (70, 33736), (75, 33772), (90, 33907),

Gene: Frankicide_34 Start: 33576, Stop: 33965, Start Num: 48
Candidate Starts for Frankicide_34:

(Start: 48 @33576 has 568 MA's), (Start: 51 @33600 has 1 MA's), (Start: 52 @33603 has 1 MA's), (70, 33732), (75, 33768), (90, 33903),

Gene: Frederick_31 Start: 33697, Stop: 34170, Start Num: 41
Candidate Starts for Frederick_31:
(3, 33304), (16, 33463), (25, 33538), (28, 33553), (29, 33559), (37, 33682), (38, 33685), (40, 33691), (Start: 41 @33697 has 2 MA's), (Start: 48 @33778 has 568 MA's), (49, 33784), (Start: 50 @33790 has 4 MA's), (Start: 53 @33814 has 2 MA's), (55, 33826), (56, 33838), (60, 33859), (61, 33862), (71, 33940), (72, 33952), (94, 34144),

Gene: FremontTroll_33 Start: 33318, Stop: 33707, Start Num: 48
Candidate Starts for FremontTroll_33:
(Start: 48 @33318 has 568 MA's), (Start: 51 @33342 has 1 MA's), (Start: 52 @33345 has 1 MA's), (70, 33474), (75, 33510), (90, 33645),

Gene: FrenchFry_34 Start: 34008, Stop: 34397, Start Num: 48
Candidate Starts for FrenchFry_34:
(Start: 48 @34008 has 568 MA's), (Start: 51 @34032 has 1 MA's), (Start: 52 @34035 has 1 MA's), (70, 34164), (75, 34200), (90, 34335),

Gene: Freya_33 Start: 33255, Stop: 33644, Start Num: 48
Candidate Starts for Freya_33:
(Start: 48 @33255 has 568 MA's), (Start: 51 @33279 has 1 MA's), (Start: 52 @33282 has 1 MA's), (70, 33411), (75, 33447), (83, 33546), (90, 33582),

Gene: FriarPreacher_34 Start: 33582, Stop: 33971, Start Num: 48
Candidate Starts for FriarPreacher_34:
(Start: 48 @33582 has 568 MA's), (Start: 51 @33606 has 1 MA's), (Start: 52 @33609 has 1 MA's), (70, 33738), (75, 33774), (90, 33909),

Gene: Fringe_34 Start: 33547, Stop: 33936, Start Num: 48
Candidate Starts for Fringe_34:
(Start: 48 @33547 has 568 MA's), (Start: 51 @33571 has 1 MA's), (Start: 52 @33574 has 1 MA's), (70, 33703), (75, 33739), (90, 33874),

Gene: FugateOSU_33 Start: 33260, Stop: 33649, Start Num: 48
Candidate Starts for FugateOSU_33:
(Start: 48 @33260 has 568 MA's), (Start: 51 @33284 has 1 MA's), (Start: 52 @33287 has 1 MA's), (70, 33416), (75, 33452), (83, 33551), (90, 33587),

Gene: Fulbright_23 Start: 21593, Stop: 21973, Start Num: 48
Candidate Starts for Fulbright_23:
(12, 21263), (13, 21266), (14, 21269), (20, 21320), (22, 21326), (Start: 48 @21593 has 568 MA's), (57, 21653), (70, 21746), (81, 21839), (90, 21911),

Gene: Funsized_36 Start: 36343, Stop: 36726, Start Num: 48
Candidate Starts for Funsized_36:
(Start: 48 @36343 has 568 MA's), (Start: 53 @36379 has 2 MA's), (56, 36403), (60, 36424), (61, 36427), (64, 36445), (66, 36469), (71, 36505), (76, 36538), (77, 36541),

Gene: Gabriela_23 Start: 21550, Stop: 21936, Start Num: 48
Candidate Starts for Gabriela_23:

(Start: 48 @21550 has 568 MA's), (69, 21694), (79, 21775), (82, 21808), (85, 21850), (89, 21871), (91, 21889), (94, 21910),

Gene: Gadjet_35 Start: 33462, Stop: 33845, Start Num: 48
Candidate Starts for Gadjet_35:
(Start: 48 @33462 has 568 MA's), (55, 33510), (62, 33552), (81, 33711), (87, 33768),

Gene: Gail_33 Start: 25447, Stop: 25839, Start Num: 48
Candidate Starts for Gail_33:
(Start: 48 @25447 has 568 MA's), (Start: 50 @25459 has 4 MA's),

Gene: Gardann_23 Start: 21555, Stop: 21941, Start Num: 48
Candidate Starts for Gardann_23:
(Start: 48 @21555 has 568 MA's), (79, 21780), (82, 21813), (85, 21855), (86, 21858), (89, 21876), (91, 21894), (98, 21930),

Gene: Gareth_33 Start: 33263, Stop: 33652, Start Num: 48
Candidate Starts for Gareth_33:
(Start: 48 @33263 has 568 MA's), (Start: 51 @33287 has 1 MA's), (Start: 52 @33290 has 1 MA's), (70, 33419), (75, 33455), (90, 33590),

Gene: GeneCoco_34 Start: 33572, Stop: 33961, Start Num: 48
Candidate Starts for GeneCoco_34:
(Start: 48 @33572 has 568 MA's), (Start: 51 @33596 has 1 MA's), (Start: 52 @33599 has 1 MA's), (70, 33728), (75, 33764), (90, 33899),

Gene: Gervas_34 Start: 33429, Stop: 33812, Start Num: 48
Candidate Starts for Gervas_34:
(Start: 48 @33429 has 568 MA's), (60, 33510), (61, 33513), (75, 33621), (81, 33678), (87, 33735), (95, 33789),

Gene: GinPorsche_30 Start: 32746, Stop: 33138, Start Num: 48
Candidate Starts for GinPorsche_30:
(3, 32272), (16, 32431), (25, 32506), (27, 32515), (28, 32521), (37, 32650), (40, 32659), (Start: 41 @32665 has 2 MA's), (42, 32680), (44, 32692), (Start: 48 @32746 has 568 MA's), (49, 32752), (Start: 50 @32758 has 4 MA's), (Start: 53 @32782 has 2 MA's), (55, 32794), (56, 32806), (60, 32827), (61, 32830), (71, 32908), (72, 32920), (94, 33112),

Gene: Giraffe_34 Start: 33266, Stop: 33655, Start Num: 48
Candidate Starts for Giraffe_34:
(Start: 48 @33266 has 568 MA's), (Start: 51 @33290 has 1 MA's), (Start: 52 @33293 has 1 MA's), (70, 33422), (75, 33458), (90, 33593),

Gene: Glass_34 Start: 34008, Stop: 34397, Start Num: 48
Candidate Starts for Glass_34:
(Start: 48 @34008 has 568 MA's), (Start: 51 @34032 has 1 MA's), (Start: 52 @34035 has 1 MA's), (70, 34164), (75, 34200), (90, 34335),

Gene: GlenHope_35 Start: 33442, Stop: 33825, Start Num: 48
Candidate Starts for GlenHope_35:
(Start: 48 @33442 has 568 MA's), (Start: 53 @33478 has 2 MA's), (55, 33490), (62, 33532), (81, 33691), (87, 33748),

Gene: Glubnar_35 Start: 33441, Stop: 33824, Start Num: 48
Candidate Starts for Glubnar_35:
(Start: 48 @33441 has 568 MA's), (60, 33522), (75, 33633), (81, 33690), (87, 33747), (95, 33801),

Gene: Gmala1_21 Start: 31800, Stop: 32183, Start Num: 48
Candidate Starts for Gmala1_21:
(Start: 48 @31800 has 568 MA's), (55, 31848), (77, 31998),

Gene: GodPhather_27 Start: 31404, Stop: 31793, Start Num: 48
Candidate Starts for GodPhather_27:
(Start: 48 @31404 has 568 MA's), (Start: 51 @31428 has 1 MA's), (Start: 52 @31431 has 1 MA's), (70, 31560), (75, 31596), (90, 31731),

Gene: GodSpeed_24 Start: 24538, Stop: 24921, Start Num: 48
Candidate Starts for GodSpeed_24:
(Start: 48 @24538 has 568 MA's), (64, 24640), (73, 24718), (87, 24844), (90, 24859),

Gene: Godines_34 Start: 33923, Stop: 34306, Start Num: 48
Candidate Starts for Godines_34:
(Start: 48 @33923 has 568 MA's), (60, 34004), (61, 34007), (75, 34115), (81, 34172), (87, 34229),

Gene: Gophee_34 Start: 33549, Stop: 33938, Start Num: 48
Candidate Starts for Gophee_34:
(Start: 48 @33549 has 568 MA's), (Start: 51 @33573 has 1 MA's), (Start: 52 @33576 has 1 MA's), (70, 33705), (75, 33741), (90, 33876),

Gene: GordDuk1_21 Start: 31740, Stop: 32123, Start Num: 48
Candidate Starts for GordDuk1_21:
(Start: 48 @31740 has 568 MA's), (55, 31788), (77, 31938),

Gene: GordTnk2_21 Start: 31707, Stop: 32090, Start Num: 48
Candidate Starts for GordTnk2_21:
(Start: 48 @31707 has 568 MA's), (55, 31755), (77, 31905),

Gene: Grand2040_33 Start: 33281, Stop: 33670, Start Num: 48
Candidate Starts for Grand2040_33:
(Start: 48 @33281 has 568 MA's), (Start: 51 @33305 has 1 MA's), (Start: 52 @33308 has 1 MA's), (70, 33437), (75, 33473), (90, 33608),

Gene: GreaseLightnin_24 Start: 22745, Stop: 23125, Start Num: 48
Candidate Starts for GreaseLightnin_24:
(1, 22193), (8, 22367), (14, 22421), (17, 22436), (23, 22481), (Start: 48 @22745 has 568 MA's), (61, 22826), (70, 22898), (77, 22940), (79, 22964), (81, 22991), (90, 23063),

Gene: GreenChile_34 Start: 33557, Stop: 33946, Start Num: 48
Candidate Starts for GreenChile_34:
(Start: 48 @33557 has 568 MA's), (Start: 51 @33581 has 1 MA's), (Start: 52 @33584 has 1 MA's), (70, 33713), (75, 33749), (90, 33884),

Gene: GuuelaD_23 Start: 21584, Stop: 21970, Start Num: 48
Candidate Starts for GuuelaD_23:
(Start: 48 @21584 has 568 MA's), (69, 21728), (79, 21809), (82, 21842), (85, 21884), (89, 21905), (91, 21923), (94, 21944),

Gene: Gwennie1_34 Start: 33630, Stop: 34019, Start Num: 48
Candidate Starts for Gwennie1_34:
(Start: 48 @33630 has 568 MA's), (Start: 51 @33654 has 1 MA's), (Start: 52 @33657 has 1 MA's), (70, 33786), (75, 33822), (90, 33957),

Gene: Gwilliam_34 Start: 33561, Stop: 33950, Start Num: 48
Candidate Starts for Gwilliam_34:
(Start: 48 @33561 has 568 MA's), (Start: 51 @33585 has 1 MA's), (Start: 52 @33588 has 1 MA's), (70, 33717), (75, 33753), (90, 33888),

Gene: Gyarad_0034 Start: 33563, Stop: 33952, Start Num: 48
Candidate Starts for Gyarad_0034:
(Start: 48 @33563 has 568 MA's), (Start: 51 @33587 has 1 MA's), (Start: 52 @33590 has 1 MA's), (70, 33719), (75, 33755), (90, 33890),

Gene: HSavage_34 Start: 33567, Stop: 33956, Start Num: 48
Candidate Starts for HSavage_34:
(Start: 48 @33567 has 568 MA's), (Start: 51 @33591 has 1 MA's), (Start: 52 @33594 has 1 MA's), (70, 33723), (75, 33759), (90, 33894),

Gene: Hafay_23 Start: 21583, Stop: 21969, Start Num: 48
Candidate Starts for Hafay_23:
(Start: 48 @21583 has 568 MA's), (69, 21727), (79, 21808), (82, 21841), (85, 21883), (89, 21904), (91, 21922), (94, 21943),

Gene: Haimas_34 Start: 33558, Stop: 33947, Start Num: 48
Candidate Starts for Haimas_34:
(Start: 48 @33558 has 568 MA's), (Start: 51 @33582 has 1 MA's), (Start: 52 @33585 has 1 MA's), (70, 33714), (75, 33750), (90, 33885),

Gene: Haleema_33 Start: 33281, Stop: 33670, Start Num: 48
Candidate Starts for Haleema_33:
(Start: 48 @33281 has 568 MA's), (Start: 51 @33305 has 1 MA's), (Start: 52 @33308 has 1 MA's), (70, 33437), (75, 33473), (90, 33608),

Gene: Halena_22 Start: 22884, Stop: 23267, Start Num: 48
Candidate Starts for Halena_22:
(Start: 48 @22884 has 568 MA's), (Start: 53 @22920 has 2 MA's), (54, 22923), (63, 22980), (83, 23169), (97, 23250),

Gene: Halfpint_33 Start: 33268, Stop: 33651, Start Num: 48
Candidate Starts for Halfpint_33:
(Start: 48 @33268 has 568 MA's), (55, 33316), (62, 33358), (81, 33517), (87, 33574),

Gene: Hally898_30 Start: 32770, Stop: 33150, Start Num: 50
Candidate Starts for Hally898_30:
(3, 32284), (16, 32443), (25, 32518), (27, 32527), (28, 32533), (37, 32662), (40, 32671), (Start: 41 @32677 has 2 MA's), (42, 32692), (44, 32704), (Start: 48 @32758 has 568 MA's), (49, 32764), (Start: 50 @32770 has 4 MA's), (Start: 53 @32794 has 2 MA's), (55, 32806), (56, 32818), (60, 32839), (61, 32842), (71, 32920), (72, 32932), (94, 33124),

Gene: Hamish_34 Start: 33550, Stop: 33939, Start Num: 48

Candidate Starts for Hamish_34:
(Start: 48 @33550 has 568 MA's), (Start: 51 @33574 has 1 MA's), (Start: 52 @33577 has 1 MA's), (70, 33706), (75, 33742), (90, 33877),

Gene: Hanako_23 Start: 21267, Stop: 21647, Start Num: 48
Candidate Starts for Hanako_23:
(1, 20715), (8, 20889), (14, 20943), (17, 20958), (23, 21003), (Start: 48 @21267 has 568 MA's), (57, 21327), (59, 21342), (61, 21348), (70, 21420), (77, 21462), (79, 21486), (81, 21513), (90, 21585),

Gene: Hangman_31 Start: 33770, Stop: 34162, Start Num: 48
Candidate Starts for Hangman_31:
(33, 33653), (37, 33674), (38, 33677), (44, 33716), (Start: 48 @33770 has 568 MA's), (49, 33776), (Start: 50 @33782 has 4 MA's), (Start: 53 @33806 has 2 MA's), (55, 33818), (56, 33830), (60, 33851), (61, 33854), (71, 33932), (72, 33944), (94, 34136),

Gene: Happabalu_34 Start: 33306, Stop: 33668, Start Num: 52
Candidate Starts for Happabalu_34:
(Start: 48 @33279 has 568 MA's), (Start: 51 @33303 has 1 MA's), (Start: 52 @33306 has 1 MA's), (70, 33435), (75, 33471), (90, 33606),

Gene: Hartsy_34 Start: 33601, Stop: 33990, Start Num: 48
Candidate Starts for Hartsy_34:
(Start: 48 @33601 has 568 MA's), (Start: 51 @33625 has 1 MA's), (Start: 52 @33628 has 1 MA's), (70, 33757), (75, 33793), (90, 33928),

Gene: Harvey_34 Start: 33576, Stop: 33965, Start Num: 48
Candidate Starts for Harvey_34:
(Start: 48 @33576 has 568 MA's), (Start: 51 @33600 has 1 MA's), (Start: 52 @33603 has 1 MA's), (70, 33732), (75, 33768), (90, 33903),

Gene: HarveySr_34 Start: 33435, Stop: 33818, Start Num: 48
Candidate Starts for HarveySr_34:
(Start: 48 @33435 has 568 MA's), (55, 33483), (62, 33525), (81, 33684), (87, 33741),

Gene: Hashim76_37 Start: 32683, Stop: 33066, Start Num: 48
Candidate Starts for Hashim76_37:
(Start: 48 @32683 has 568 MA's), (55, 32731), (58, 32752), (65, 32806), (70, 32839), (71, 32845), (87, 32989), (92, 33025),

Gene: Heath_30 Start: 33374, Stop: 33769, Start Num: 48
Candidate Starts for Heath_30:
(3, 32900), (4, 32903), (25, 33134), (28, 33149), (36, 33269), (40, 33287), (Start: 41 @33293 has 2 MA's), (44, 33320), (Start: 48 @33374 has 568 MA's), (49, 33380), (Start: 50 @33386 has 4 MA's), (Start: 53 @33410 has 2 MA's), (55, 33422), (56, 33434), (60, 33455), (61, 33458), (71, 33536), (72, 33548), (94, 33740),

Gene: Heathcliff_34 Start: 33413, Stop: 33796, Start Num: 48
Candidate Starts for Heathcliff_34:
(Start: 48 @33413 has 568 MA's), (60, 33494), (61, 33497), (75, 33605), (81, 33662), (87, 33719), (95, 33773),

Gene: Hedgerow_34 Start: 33990, Stop: 34379, Start Num: 48
Candidate Starts for Hedgerow_34:

(Start: 48 @33990 has 568 MA's), (Start: 51 @34014 has 1 MA's), (Start: 52 @34017 has 1 MA's), (70, 34146), (75, 34182), (90, 34317),

Gene: Hekos_31 Start: 32130, Stop: 32519, Start Num: 48
Candidate Starts for Hekos_31:
(Start: 48 @32130 has 568 MA's), (Start: 51 @32154 has 1 MA's), (Start: 52 @32157 has 1 MA's), (70, 32286), (75, 32322), (90, 32457),

Gene: Held_34 Start: 33265, Stop: 33654, Start Num: 48
Candidate Starts for Held_34:
(Start: 48 @33265 has 568 MA's), (Start: 51 @33289 has 1 MA's), (Start: 52 @33292 has 1 MA's), (70, 33421), (75, 33457), (90, 33592),

Gene: HenryJackson_33 Start: 33281, Stop: 33670, Start Num: 48
Candidate Starts for HenryJackson_33:
(Start: 48 @33281 has 568 MA's), (Start: 51 @33305 has 1 MA's), (Start: 52 @33308 has 1 MA's), (70, 33437), (75, 33473), (83, 33572), (90, 33608),

Gene: Hertubise_34 Start: 33572, Stop: 33961, Start Num: 48
Candidate Starts for Hertubise_34:
(Start: 48 @33572 has 568 MA's), (Start: 51 @33596 has 1 MA's), (Start: 52 @33599 has 1 MA's), (70, 33728), (75, 33764), (83, 33863), (90, 33899),

Gene: Hetaeria_34 Start: 33574, Stop: 33963, Start Num: 48
Candidate Starts for Hetaeria_34:
(Start: 48 @33574 has 568 MA's), (Start: 51 @33598 has 1 MA's), (Start: 52 @33601 has 1 MA's), (70, 33730), (75, 33766), (90, 33901),

Gene: HighStump_33 Start: 33264, Stop: 33653, Start Num: 48
Candidate Starts for HighStump_33:
(Start: 48 @33264 has 568 MA's), (Start: 51 @33288 has 1 MA's), (Start: 52 @33291 has 1 MA's), (70, 33420), (75, 33456), (90, 33591),

Gene: Hiraya_23 Start: 21550, Stop: 21936, Start Num: 48
Candidate Starts for Hiraya_23:
(Start: 48 @21550 has 568 MA's), (69, 21694), (79, 21775), (82, 21808), (85, 21850), (89, 21871), (91, 21889), (94, 21910),

Gene: Hocus_33 Start: 33273, Stop: 33662, Start Num: 48
Candidate Starts for Hocus_33:
(Start: 48 @33273 has 568 MA's), (Start: 51 @33297 has 1 MA's), (Start: 52 @33300 has 1 MA's), (70, 33429), (75, 33465), (90, 33600),

Gene: HogWash_33 Start: 33570, Stop: 33959, Start Num: 48
Candidate Starts for HogWash_33:
(Start: 48 @33570 has 568 MA's), (Start: 51 @33594 has 1 MA's), (Start: 52 @33597 has 1 MA's), (70, 33726), (75, 33762), (90, 33897),

Gene: Holeinone_34 Start: 33870, Stop: 34259, Start Num: 48
Candidate Starts for Holeinone_34:
(Start: 48 @33870 has 568 MA's), (Start: 51 @33894 has 1 MA's), (Start: 52 @33897 has 1 MA's), (70, 34026), (75, 34062), (90, 34197),

Gene: Horchata_34 Start: 33552, Stop: 33941, Start Num: 48
Candidate Starts for Horchata_34:
(Start: 48 @33552 has 568 MA's), (Start: 51 @33576 has 1 MA's), (Start: 52 @33579 has 1 MA's), (70, 33708), (75, 33744), (90, 33879),

Gene: Hosp_026 Start: 29523, Stop: 29882, Start Num: 52
Candidate Starts for Hosp_026:
(Start: 48 @29496 has 568 MA's), (Start: 52 @29523 has 1 MA's), (61, 29583), (77, 29697), (87, 29805),

Gene: Hydro_31 Start: 33799, Stop: 34179, Start Num: 50
Candidate Starts for Hydro_31:
(16, 33472), (25, 33547), (28, 33562), (32, 33667), (37, 33691), (40, 33700), (Start: 41 @33706 has 2 MA's), (Start: 48 @33787 has 568 MA's), (49, 33793), (Start: 50 @33799 has 4 MA's), (Start: 53 @33823 has 2 MA's), (55, 33835), (56, 33847), (60, 33868), (61, 33871), (71, 33949), (72, 33961), (94, 34153),

Gene: ImtiyazSitla_33 Start: 33115, Stop: 33504, Start Num: 48
Candidate Starts for ImtiyazSitla_33:
(Start: 48 @33115 has 568 MA's), (Start: 51 @33139 has 1 MA's), (Start: 52 @33142 has 1 MA's), (70, 33271), (75, 33307), (90, 33442),

Gene: Imvubu_27 Start: 30438, Stop: 30821, Start Num: 48
Candidate Starts for Imvubu_27:
(Start: 48 @30438 has 568 MA's), (58, 30507), (61, 30522), (65, 30561), (70, 30594), (71, 30600), (92, 30780),

Gene: Inchworm_34 Start: 33550, Stop: 33939, Start Num: 48
Candidate Starts for Inchworm_34:
(Start: 48 @33550 has 568 MA's), (Start: 51 @33574 has 1 MA's), (Start: 52 @33577 has 1 MA's), (70, 33706), (75, 33742), (90, 33877),

Gene: Indlovu_31 Start: 32679, Stop: 33068, Start Num: 48
Candidate Starts for Indlovu_31:
(Start: 48 @32679 has 568 MA's), (55, 32727), (56, 32739), (65, 32802), (67, 32814), (83, 32970), (90, 33006),

Gene: Inverness_34 Start: 33564, Stop: 33953, Start Num: 48
Candidate Starts for Inverness_34:
(Start: 48 @33564 has 568 MA's), (Start: 51 @33588 has 1 MA's), (Start: 52 @33591 has 1 MA's), (70, 33720), (75, 33756), (90, 33891),

Gene: Iridessa_34 Start: 33266, Stop: 33655, Start Num: 48
Candidate Starts for Iridessa_34:
(Start: 48 @33266 has 568 MA's), (Start: 51 @33290 has 1 MA's), (Start: 52 @33293 has 1 MA's), (70, 33422), (75, 33458), (90, 33593),

Gene: Iridoclysis_34 Start: 33544, Stop: 33933, Start Num: 48
Candidate Starts for Iridoclysis_34:
(Start: 48 @33544 has 568 MA's), (Start: 51 @33568 has 1 MA's), (Start: 52 @33571 has 1 MA's), (70, 33700), (75, 33736), (90, 33871),

Gene: IsaacEli_34 Start: 33568, Stop: 33957, Start Num: 48

Candidate Starts for IsaacEli_34:
(Start: 48 @33568 has 568 MA's), (Start: 51 @33592 has 1 MA's), (Start: 52 @33595 has 1 MA's), (70, 33724), (75, 33760), (90, 33895),

Gene: Itos_23 Start: 21550, Stop: 21936, Start Num: 48
Candidate Starts for Itos_23:
(Start: 48 @21550 has 568 MA's), (69, 21694), (79, 21775), (82, 21808), (85, 21850), (89, 21871), (91, 21889), (94, 21910),

Gene: ItsyBitsy1_34 Start: 33872, Stop: 34261, Start Num: 48
Candidate Starts for ItsyBitsy1_34:
(Start: 48 @33872 has 568 MA's), (Start: 51 @33896 has 1 MA's), (Start: 52 @33899 has 1 MA's), (70, 34028), (75, 34064), (90, 34199),

Gene: JAMaL_31 Start: 33969, Stop: 34349, Start Num: 50
Candidate Starts for JAMaL_31:
(3, 33483), (16, 33642), (25, 33717), (27, 33726), (28, 33732), (37, 33861), (40, 33870), (Start: 41 @33876 has 2 MA's), (42, 33891), (44, 33903), (Start: 48 @33957 has 568 MA's), (49, 33963), (Start: 50 @33969 has 4 MA's), (Start: 53 @33993 has 2 MA's), (55, 34005), (56, 34017), (60, 34038), (61, 34041), (71, 34119), (72, 34131), (94, 34323),

Gene: JDog_33 Start: 33281, Stop: 33670, Start Num: 48
Candidate Starts for JDog_33:
(Start: 48 @33281 has 568 MA's), (Start: 51 @33305 has 1 MA's), (Start: 52 @33308 has 1 MA's), (70, 33437), (75, 33473), (90, 33608),

Gene: JacAttac_34 Start: 33550, Stop: 33939, Start Num: 48
Candidate Starts for JacAttac_34:
(Start: 48 @33550 has 568 MA's), (Start: 51 @33574 has 1 MA's), (Start: 52 @33577 has 1 MA's), (70, 33706), (75, 33742), (90, 33877),

Gene: Jackstina_31 Start: 33372, Stop: 33755, Start Num: 48
Candidate Starts for Jackstina_31:
(Start: 48 @33372 has 568 MA's), (55, 33420), (62, 33462), (81, 33621), (87, 33678),

Gene: JaguarMi_31 Start: 33264, Stop: 33644, Start Num: 50
Candidate Starts for JaguarMi_31:
(37, 33156), (40, 33165), (Start: 41 @33171 has 2 MA's), (44, 33198), (Start: 48 @33252 has 568 MA's), (49, 33258), (Start: 50 @33264 has 4 MA's), (Start: 53 @33288 has 2 MA's), (55, 33300), (56, 33312), (60, 33333), (61, 33336), (71, 33414), (72, 33426), (94, 33618),

Gene: JakeO_33 Start: 33283, Stop: 33672, Start Num: 48
Candidate Starts for JakeO_33:
(Start: 48 @33283 has 568 MA's), (Start: 51 @33307 has 1 MA's), (Start: 52 @33310 has 1 MA's), (70, 33439), (75, 33475), (90, 33610),

Gene: Jamie19_23 Start: 21267, Stop: 21647, Start Num: 48
Candidate Starts for Jamie19_23:
(1, 20715), (8, 20889), (14, 20943), (17, 20958), (23, 21003), (Start: 48 @21267 has 568 MA's), (61, 21348), (70, 21420), (77, 21462), (79, 21486), (81, 21513), (90, 21585),

Gene: JangoPhett_34 Start: 33552, Stop: 33941, Start Num: 48
Candidate Starts for JangoPhett_34:

(Start: 48 @33552 has 568 MA's), (Start: 51 @33576 has 1 MA's), (Start: 52 @33579 has 1 MA's), (70, 33708), (75, 33744), (90, 33879),

Gene: Jbug01_33 Start: 32775, Stop: 33164, Start Num: 48
Candidate Starts for Jbug01_33:
(Start: 48 @32775 has 568 MA's), (Start: 51 @32799 has 1 MA's), (Start: 52 @32802 has 1 MA's), (70, 32931), (75, 32967), (90, 33102),

Gene: Jennelsea_21 Start: 21607, Stop: 21987, Start Num: 48
Candidate Starts for Jennelsea_21:
(1, 21055), (8, 21229), (12, 21277), (13, 21280), (14, 21283), (17, 21298), (20, 21334), (22, 21340), (Start: 48 @21607 has 568 MA's), (57, 21667), (70, 21760), (81, 21853), (90, 21925),

Gene: Jeon_26 Start: 31146, Stop: 31535, Start Num: 48
Candidate Starts for Jeon_26:
(Start: 48 @31146 has 568 MA's), (Start: 51 @31170 has 1 MA's), (Start: 52 @31173 has 1 MA's), (70, 31302), (75, 31338), (90, 31473),

Gene: Jesabah_34 Start: 33283, Stop: 33672, Start Num: 48
Candidate Starts for Jesabah_34:
(Start: 48 @33283 has 568 MA's), (Start: 51 @33307 has 1 MA's), (Start: 52 @33310 has 1 MA's), (70, 33439), (75, 33475), (90, 33610),

Gene: Jillium_33 Start: 33274, Stop: 33663, Start Num: 48
Candidate Starts for Jillium_33:
(Start: 48 @33274 has 568 MA's), (Start: 51 @33298 has 1 MA's), (Start: 52 @33301 has 1 MA's), (70, 33430), (75, 33466), (83, 33565), (90, 33601),

Gene: Jiminy_33 Start: 33118, Stop: 33507, Start Num: 48
Candidate Starts for Jiminy_33:
(Start: 48 @33118 has 568 MA's), (Start: 51 @33142 has 1 MA's), (Start: 52 @33145 has 1 MA's), (70, 33274), (75, 33310), (90, 33445),

Gene: Jiraiya_33 Start: 33271, Stop: 33660, Start Num: 48
Candidate Starts for Jiraiya_33:
(Start: 48 @33271 has 568 MA's), (Start: 51 @33295 has 1 MA's), (Start: 52 @33298 has 1 MA's), (70, 33427), (75, 33463), (90, 33598),

Gene: Jobypre_23 Start: 23494, Stop: 23877, Start Num: 48
Candidate Starts for Jobypre_23:
(Start: 48 @23494 has 568 MA's), (56, 23554), (63, 23590), (80, 23737), (84, 23788), (87, 23800), (96, 23857),

Gene: JoeDirt_22 Start: 22855, Stop: 23238, Start Num: 48
Candidate Starts for JoeDirt_22:
(Start: 48 @22855 has 568 MA's), (Start: 53 @22891 has 2 MA's), (54, 22894), (63, 22951), (83, 23140), (97, 23221),

Gene: JohnLord_31 Start: 30138, Stop: 30527, Start Num: 48
Candidate Starts for JohnLord_31:
(Start: 48 @30138 has 568 MA's), (56, 30198), (60, 30219), (74, 30327), (75, 30330), (90, 30465),

Gene: Jolie1_028 Start: 31283, Stop: 31669, Start Num: 48

Candidate Starts for Jolie1_028:
(Start: 48 @31283 has 568 MA's), (Start: 52 @31310 has 1 MA's), (77, 31484), (87, 31592),

Gene: Jolie2_24 Start: 23394, Stop: 23783, Start Num: 48
Candidate Starts for Jolie2_24:
(Start: 48 @23394 has 568 MA's), (56, 23454), (71, 23556), (88, 23709), (93, 23751),

Gene: JoyceMaria_31 Start: 33773, Stop: 34165, Start Num: 48
Candidate Starts for JoyceMaria_31:
(33, 33656), (37, 33677), (38, 33680), (44, 33719), (Start: 48 @33773 has 568 MA's), (49, 33779), (Start: 50 @33785 has 4 MA's), (Start: 53 @33809 has 2 MA's), (55, 33821), (56, 33833), (60, 33854), (61, 33857), (71, 33935), (72, 33947), (94, 34139),

Gene: Jubie_23 Start: 23495, Stop: 23878, Start Num: 48
Candidate Starts for Jubie_23:
(Start: 48 @23495 has 568 MA's), (56, 23555), (63, 23591), (80, 23738), (84, 23789), (87, 23801), (96, 23858),

Gene: KLucky39_34 Start: 33562, Stop: 33951, Start Num: 48
Candidate Starts for KLucky39_34:
(Start: 48 @33562 has 568 MA's), (Start: 51 @33586 has 1 MA's), (Start: 52 @33589 has 1 MA's), (70, 33718), (75, 33754), (90, 33889),

Gene: Kahlid_23 Start: 21555, Stop: 21941, Start Num: 48
Candidate Starts for Kahlid_23:
(Start: 48 @21555 has 568 MA's), (69, 21699), (79, 21780), (82, 21813), (85, 21855), (89, 21876), (91, 21894), (94, 21915),

Gene: Kahve_33 Start: 33278, Stop: 33667, Start Num: 48
Candidate Starts for Kahve_33:
(Start: 48 @33278 has 568 MA's), (Start: 51 @33302 has 1 MA's), (Start: 52 @33305 has 1 MA's), (70, 33434), (75, 33470), (83, 33569), (90, 33605),

Gene: Kailash_34 Start: 33616, Stop: 34005, Start Num: 48
Candidate Starts for Kailash_34:
(Start: 48 @33616 has 568 MA's), (Start: 51 @33640 has 1 MA's), (Start: 52 @33643 has 1 MA's), (70, 33772), (75, 33808), (90, 33943),

Gene: Kaleb_34 Start: 34005, Stop: 34394, Start Num: 48
Candidate Starts for Kaleb_34:
(Start: 48 @34005 has 568 MA's), (Start: 51 @34029 has 1 MA's), (Start: 52 @34032 has 1 MA's), (70, 34161), (75, 34197), (90, 34332),

Gene: Kamiyu_34 Start: 33421, Stop: 33804, Start Num: 48
Candidate Starts for Kamiyu_34:
(Start: 48 @33421 has 568 MA's), (55, 33469), (62, 33511), (81, 33670), (87, 33727),

Gene: KarasumaRum_35 Start: 34269, Stop: 34658, Start Num: 48
Candidate Starts for KarasumaRum_35:
(5, 33828), (10, 33912), (20, 33996), (Start: 48 @34269 has 568 MA's), (55, 34317), (75, 34461), (81, 34518),

Gene: Karn_33 Start: 33278, Stop: 33667, Start Num: 48

Candidate Starts for Karn_33:
(Start: 48 @33278 has 568 MA's), (Start: 51 @33302 has 1 MA's), (Start: 52 @33305 has 1 MA's), (70, 33434), (75, 33470), (90, 33605),

Gene: Katniss_34 Start: 33577, Stop: 33966, Start Num: 48
Candidate Starts for Katniss_34:
(Start: 48 @33577 has 568 MA's), (Start: 51 @33601 has 1 MA's), (Start: 52 @33604 has 1 MA's), (70, 33733), (75, 33769), (83, 33868), (90, 33904),

Gene: KayaCho_28 Start: 31279, Stop: 31665, Start Num: 48
Candidate Starts for KayaCho_28:
(Start: 48 @31279 has 568 MA's), (Start: 52 @31306 has 1 MA's), (56, 31342), (61, 31366), (77, 31480), (87, 31588),

Gene: Keitherie_34 Start: 33615, Stop: 34004, Start Num: 48
Candidate Starts for Keitherie_34:
(Start: 48 @33615 has 568 MA's), (Start: 51 @33639 has 1 MA's), (Start: 52 @33642 has 1 MA's), (70, 33771), (75, 33807), (90, 33942),

Gene: Keziacharles14_33 Start: 26106, Stop: 26489, Start Num: 48
Candidate Starts for Keziacharles14_33:
(Start: 48 @26106 has 568 MA's), (Start: 50 @26118 has 4 MA's), (Start: 53 @26142 has 2 MA's), (63, 26202), (84, 26400), (87, 26412),

Gene: Khan1_33 Start: 33299, Stop: 33688, Start Num: 48
Candidate Starts for Khan1_33:
(Start: 48 @33299 has 568 MA's), (Start: 51 @33323 has 1 MA's), (Start: 52 @33326 has 1 MA's), (70, 33455), (75, 33491), (90, 33626),

Gene: Kheth_34 Start: 33893, Stop: 34282, Start Num: 48
Candidate Starts for Kheth_34:
(Start: 48 @33893 has 568 MA's), (Start: 51 @33917 has 1 MA's), (Start: 52 @33920 has 1 MA's), (70, 34049), (75, 34085), (90, 34220),

Gene: Kikipoo_34 Start: 33568, Stop: 33957, Start Num: 48
Candidate Starts for Kikipoo_34:
(Start: 48 @33568 has 568 MA's), (Start: 51 @33592 has 1 MA's), (Start: 52 @33595 has 1 MA's), (70, 33724), (75, 33760), (90, 33895),

Gene: Kimbrough_34 Start: 33270, Stop: 33659, Start Num: 48
Candidate Starts for Kimbrough_34:
(Start: 48 @33270 has 568 MA's), (Start: 51 @33294 has 1 MA's), (Start: 52 @33297 has 1 MA's), (70, 33426), (75, 33462), (90, 33597),

Gene: KingCyrus_35 Start: 26571, Stop: 26963, Start Num: 48
Candidate Starts for KingCyrus_35:
(Start: 48 @26571 has 568 MA's), (Start: 50 @26583 has 4 MA's), (56, 26631), (57, 26634), (59, 26649), (77, 26775),

Gene: KingTut_25 Start: 28939, Stop: 29328, Start Num: 48
Candidate Starts for KingTut_25:
(Start: 48 @28939 has 568 MA's), (Start: 51 @28963 has 1 MA's), (Start: 52 @28966 has 1 MA's), (70, 29095), (75, 29131), (90, 29266),

Gene: KingVeVeVe_34 Start: 33543, Stop: 33932, Start Num: 48
Candidate Starts for KingVeVeVe_34:
(Start: 48 @33543 has 568 MA's), (Start: 51 @33567 has 1 MA's), (Start: 52 @33570 has 1 MA's), (70, 33699), (75, 33735), (90, 33870),

Gene: Kingsolomon_23 Start: 23494, Stop: 23877, Start Num: 48
Candidate Starts for Kingsolomon_23:
(Start: 48 @23494 has 568 MA's), (56, 23554), (63, 23590), (80, 23737), (84, 23788), (87, 23800), (96, 23857),

Gene: KirDoubleO7_21 Start: 23486, Stop: 23869, Start Num: 48
Candidate Starts for KirDoubleO7_21:
(Start: 48 @23486 has 568 MA's), (64, 23588), (69, 23630), (80, 23729), (84, 23780), (96, 23849),

Gene: Kiwot_33 Start: 33124, Stop: 33513, Start Num: 48
Candidate Starts for Kiwot_33:
(Start: 48 @33124 has 568 MA's), (Start: 51 @33148 has 1 MA's), (Start: 52 @33151 has 1 MA's), (70, 33280), (75, 33316), (90, 33451),

Gene: KlimbOn_34 Start: 33556, Stop: 33945, Start Num: 48
Candidate Starts for KlimbOn_34:
(Start: 48 @33556 has 568 MA's), (Start: 51 @33580 has 1 MA's), (Start: 52 @33583 has 1 MA's), (70, 33712), (75, 33748), (90, 33883),

Gene: Kloppinator_34 Start: 33579, Stop: 33968, Start Num: 48
Candidate Starts for Kloppinator_34:
(Start: 48 @33579 has 568 MA's), (Start: 51 @33603 has 1 MA's), (Start: 52 @33606 has 1 MA's), (70, 33735), (75, 33771), (90, 33906),

Gene: Knocker_35 Start: 35382, Stop: 35765, Start Num: 48
Candidate Starts for Knocker_35:
(Start: 48 @35382 has 568 MA's), (Start: 51 @35406 has 1 MA's), (55, 35430), (58, 35451), (65, 35505), (67, 35517), (71, 35544), (83, 35667), (87, 35688), (90, 35703), (92, 35724),

Gene: Koella_21 Start: 21619, Stop: 21999, Start Num: 48
Candidate Starts for Koella_21:
(1, 21067), (8, 21241), (12, 21289), (13, 21292), (14, 21295), (17, 21310), (20, 21346), (22, 21352), (Start: 48 @21619 has 568 MA's), (57, 21679), (70, 21772), (81, 21865), (90, 21937),

Gene: Kolhan_34 Start: 33884, Stop: 34273, Start Num: 48
Candidate Starts for Kolhan_34:
(Start: 48 @33884 has 568 MA's), (Start: 51 @33908 has 1 MA's), (Start: 52 @33911 has 1 MA's), (70, 34040), (75, 34076), (90, 34211),

Gene: Kronus_33 Start: 34031, Stop: 34414, Start Num: 48
Candidate Starts for Kronus_33:
(Start: 48 @34031 has 568 MA's), (60, 34112), (61, 34115), (75, 34223), (81, 34280), (87, 34337), (95, 34391),

Gene: Krypton555_23 Start: 23397, Stop: 23780, Start Num: 48
Candidate Starts for Krypton555_23:
(Start: 48 @23397 has 568 MA's), (56, 23457), (80, 23640), (84, 23691), (96, 23760),

Gene: Kwadwo_33 Start: 33260, Stop: 33649, Start Num: 48
Candidate Starts for Kwadwo_33:
(Start: 48 @33260 has 568 MA's), (Start: 51 @33284 has 1 MA's), (Start: 52 @33287 has 1 MA's), (70, 33416), (75, 33452), (90, 33587),

Gene: Kwksand96_33 Start: 33129, Stop: 33518, Start Num: 48
Candidate Starts for Kwksand96_33:
(Start: 48 @33129 has 568 MA's), (Start: 51 @33153 has 1 MA's), (Start: 52 @33156 has 1 MA's), (70, 33285), (75, 33321), (90, 33456),

Gene: Labeouficaum_33 Start: 33124, Stop: 33513, Start Num: 48
Candidate Starts for Labeouficaum_33:
(Start: 48 @33124 has 568 MA's), (Start: 51 @33148 has 1 MA's), (Start: 52 @33151 has 1 MA's), (70, 33280), (75, 33316), (90, 33451),

Gene: Lambano_30 Start: 32770, Stop: 33150, Start Num: 50
Candidate Starts for Lambano_30:
(3, 32284), (16, 32443), (25, 32518), (27, 32527), (28, 32533), (37, 32662), (40, 32671), (Start: 41 @32677 has 2 MA's), (42, 32692), (44, 32704), (Start: 48 @32758 has 568 MA's), (49, 32764), (Start: 50 @32770 has 4 MA's), (Start: 53 @32794 has 2 MA's), (55, 32806), (56, 32818), (60, 32839), (61, 32842), (71, 32920), (72, 32932), (94, 33124),

Gene: Lars_34 Start: 33995, Stop: 34384, Start Num: 48
Candidate Starts for Lars_34:
(Start: 48 @33995 has 568 MA's), (Start: 51 @34019 has 1 MA's), (Start: 52 @34022 has 1 MA's), (70, 34151), (75, 34187), (90, 34322),

Gene: Larson_35 Start: 33673, Stop: 34062, Start Num: 48
Candidate Starts for Larson_35:
(Start: 48 @33673 has 568 MA's), (Start: 51 @33697 has 1 MA's), (Start: 52 @33700 has 1 MA's), (70, 33829), (75, 33865), (90, 34000),

Gene: LasagnaCat_34 Start: 33562, Stop: 33951, Start Num: 48
Candidate Starts for LasagnaCat_34:
(Start: 48 @33562 has 568 MA's), (Start: 51 @33586 has 1 MA's), (Start: 52 @33589 has 1 MA's), (70, 33718), (75, 33754), (90, 33889),

Gene: Lasso_34 Start: 33535, Stop: 33924, Start Num: 48
Candidate Starts for Lasso_34:
(Start: 48 @33535 has 568 MA's), (Start: 51 @33559 has 1 MA's), (Start: 52 @33562 has 1 MA's), (70, 33691), (75, 33727), (90, 33862),

Gene: LastJedi_21 Start: 21650, Stop: 22030, Start Num: 48
Candidate Starts for LastJedi_21:
(1, 21098), (8, 21272), (12, 21320), (13, 21323), (14, 21326), (17, 21341), (20, 21377), (22, 21383), (Start: 48 @21650 has 568 MA's), (57, 21710), (70, 21803), (81, 21896), (90, 21968),

Gene: Laurie_34 Start: 33367, Stop: 33747, Start Num: 48
Candidate Starts for Laurie_34:
(Start: 48 @33367 has 568 MA's), (60, 33445), (61, 33448), (75, 33556), (81, 33613), (87, 33670), (95, 33724),

Gene: LeBron_22 Start: 22935, Stop: 23282, Start Num: 53
Candidate Starts for LeBron_22:
(Start: 48 @22899 has 568 MA's), (Start: 53 @22935 has 2 MA's), (54, 22938), (63, 22995), (69, 23043), (83, 23184), (97, 23265),

Gene: LeeLot_34 Start: 33566, Stop: 33955, Start Num: 48
Candidate Starts for LeeLot_34:
(Start: 48 @33566 has 568 MA's), (Start: 51 @33590 has 1 MA's), (Start: 52 @33593 has 1 MA's), (70, 33722), (75, 33758), (90, 33893),

Gene: Lego3393_34 Start: 33571, Stop: 33960, Start Num: 48
Candidate Starts for Lego3393_34:
(Start: 48 @33571 has 568 MA's), (Start: 51 @33595 has 1 MA's), (Start: 52 @33598 has 1 MA's), (70, 33727), (75, 33763), (90, 33898),

Gene: Legolas_33 Start: 33276, Stop: 33665, Start Num: 48
Candidate Starts for Legolas_33:
(Start: 48 @33276 has 568 MA's), (Start: 51 @33300 has 1 MA's), (Start: 52 @33303 has 1 MA's), (70, 33432), (75, 33468), (90, 33603),

Gene: Lehmann_34 Start: 33099, Stop: 33488, Start Num: 48
Candidate Starts for Lehmann_34:
(Start: 48 @33099 has 568 MA's), (Start: 51 @33123 has 1 MA's), (Start: 52 @33126 has 1 MA's), (70, 33255), (75, 33291), (90, 33426),

Gene: LeiMonet_34 Start: 33267, Stop: 33656, Start Num: 48
Candidate Starts for LeiMonet_34:
(Start: 48 @33267 has 568 MA's), (Start: 51 @33291 has 1 MA's), (Start: 52 @33294 has 1 MA's), (70, 33423), (75, 33459), (90, 33594),

Gene: LemonSlice_34 Start: 33263, Stop: 33652, Start Num: 48
Candidate Starts for LemonSlice_34:
(Start: 48 @33263 has 568 MA's), (Start: 51 @33287 has 1 MA's), (Start: 52 @33290 has 1 MA's), (70, 33419), (75, 33455), (90, 33590),

Gene: Lemuria_25 Start: 24474, Stop: 24863, Start Num: 48
Candidate Starts for Lemuria_25:
(Start: 48 @24474 has 568 MA's), (Start: 52 @24501 has 1 MA's), (56, 24534), (88, 24789), (93, 24831),

Gene: Lephleur_34 Start: 33888, Stop: 34277, Start Num: 48
Candidate Starts for Lephleur_34:
(Start: 48 @33888 has 568 MA's), (Start: 51 @33912 has 1 MA's), (Start: 52 @33915 has 1 MA's), (70, 34044), (75, 34080), (90, 34215),

Gene: LestyG_34 Start: 33452, Stop: 33835, Start Num: 48
Candidate Starts for LestyG_34:
(Start: 48 @33452 has 568 MA's), (60, 33533), (61, 33536), (75, 33644), (81, 33701), (87, 33758), (95, 33812),

Gene: Lewan_23 Start: 21550, Stop: 21936, Start Num: 48
Candidate Starts for Lewan_23:

(Start: 48 @21550 has 568 MA's), (69, 21694), (79, 21775), (82, 21808), (85, 21850), (89, 21871), (91, 21889), (94, 21910),

Gene: LilDestine_23 Start: 21549, Stop: 21935, Start Num: 48
Candidate Starts for LilDestine_23:
(Start: 48 @21549 has 568 MA's), (69, 21693), (79, 21774), (82, 21807), (85, 21849), (89, 21870), (91, 21888), (94, 21909),

Gene: LilMcDreamy_29 Start: 32917, Stop: 33303, Start Num: 48
Candidate Starts for LilMcDreamy_29:
(Start: 48 @32917 has 568 MA's), (Start: 52 @32944 has 1 MA's), (54, 32956), (77, 33118), (87, 33226),

Gene: LilSmirk_34 Start: 33882, Stop: 34271, Start Num: 48
Candidate Starts for LilSmirk_34:
(Start: 48 @33882 has 568 MA's), (Start: 51 @33906 has 1 MA's), (Start: 52 @33909 has 1 MA's), (70, 34038), (75, 34074), (90, 34209),

Gene: LittleDigger_30 Start: 32780, Stop: 33172, Start Num: 48
Candidate Starts for LittleDigger_30:
(3, 32306), (7, 32393), (9, 32405), (15, 32462), (16, 32465), (25, 32540), (27, 32549), (28, 32555), (37, 32684), (40, 32693), (Start: 41 @32699 has 2 MA's), (42, 32714), (44, 32726), (Start: 48 @32780 has 568 MA's), (49, 32786), (Start: 50 @32792 has 4 MA's), (Start: 53 @32816 has 2 MA's), (55, 32828), (56, 32840), (60, 32861), (61, 32864), (71, 32942), (72, 32954), (94, 33146),

Gene: LittleMinkey_38 Start: 32786, Stop: 33175, Start Num: 48
Candidate Starts for LittleMinkey_38:
(Start: 48 @32786 has 568 MA's), (63, 32882), (70, 32942), (93, 33143),

Gene: LiyuLake_23 Start: 23456, Stop: 23839, Start Num: 48
Candidate Starts for LiyuLake_23:
(Start: 48 @23456 has 568 MA's), (56, 23516), (80, 23699), (84, 23750), (96, 23819),

Gene: LizLemon_34 Start: 34004, Stop: 34393, Start Num: 48
Candidate Starts for LizLemon_34:
(Start: 48 @34004 has 568 MA's), (Start: 51 @34028 has 1 MA's), (Start: 52 @34031 has 1 MA's), (70, 34160), (75, 34196), (90, 34331),

Gene: Loadrie_23 Start: 21582, Stop: 21968, Start Num: 48
Candidate Starts for Loadrie_23:
(Start: 48 @21582 has 568 MA's), (69, 21726), (79, 21807), (82, 21840), (85, 21882), (89, 21903), (91, 21921), (94, 21942),

Gene: Lolalove_31 Start: 33784, Stop: 34176, Start Num: 48
Candidate Starts for Lolalove_31:
(25, 33544), (37, 33688), (39, 33694), (40, 33697), (Start: 41 @33703 has 2 MA's), (44, 33730), (Start: 48 @33784 has 568 MA's), (49, 33790), (Start: 50 @33796 has 4 MA's), (Start: 53 @33820 has 2 MA's), (55, 33832), (56, 33844), (60, 33865), (61, 33868), (71, 33946), (72, 33958), (94, 34150),

Gene: Lolly9_23 Start: 23272, Stop: 23655, Start Num: 48
Candidate Starts for Lolly9_23:
(Start: 48 @23272 has 568 MA's), (56, 23332), (64, 23374), (80, 23515), (84, 23566), (96, 23635),

Gene: Longacauda_33 Start: 33268, Stop: 33657, Start Num: 48
Candidate Starts for Longacauda_33:
(Start: 48 @33268 has 568 MA's), (Start: 51 @33292 has 1 MA's), (Start: 52 @33295 has 1 MA's), (70, 33424), (75, 33460), (90, 33595),

Gene: Lopsy_33 Start: 33118, Stop: 33507, Start Num: 48
Candidate Starts for Lopsy_33:
(Start: 48 @33118 has 568 MA's), (Start: 51 @33142 has 1 MA's), (Start: 52 @33145 has 1 MA's), (70, 33274), (75, 33310), (83, 33409), (90, 33445),

Gene: LostAndPhound_33 Start: 33269, Stop: 33658, Start Num: 48
Candidate Starts for LostAndPhound_33:
(Start: 48 @33269 has 568 MA's), (Start: 51 @33293 has 1 MA's), (Start: 52 @33296 has 1 MA's), (70, 33425), (75, 33461), (90, 33596),

Gene: Luchador_35 Start: 26637, Stop: 27029, Start Num: 48
Candidate Starts for Luchador_35:
(Start: 48 @26637 has 568 MA's), (Start: 50 @26649 has 4 MA's), (77, 26841), (81, 26895),

Gene: LuckyMarjie_33 Start: 33278, Stop: 33667, Start Num: 48
Candidate Starts for LuckyMarjie_33:
(Start: 48 @33278 has 568 MA's), (Start: 51 @33302 has 1 MA's), (Start: 52 @33305 has 1 MA's), (70, 33434), (75, 33470), (90, 33605),

Gene: Lulumae_33 Start: 33260, Stop: 33649, Start Num: 48
Candidate Starts for Lulumae_33:
(Start: 48 @33260 has 568 MA's), (Start: 51 @33284 has 1 MA's), (Start: 52 @33287 has 1 MA's), (70, 33416), (75, 33452), (90, 33587),

Gene: Lulwa_34 Start: 33547, Stop: 33936, Start Num: 48
Candidate Starts for Lulwa_34:
(Start: 48 @33547 has 568 MA's), (Start: 51 @33571 has 1 MA's), (Start: 52 @33574 has 1 MA's), (70, 33703), (75, 33739), (90, 33874),

Gene: Lumine_33 Start: 33256, Stop: 33645, Start Num: 48
Candidate Starts for Lumine_33:
(Start: 48 @33256 has 568 MA's), (Start: 51 @33280 has 1 MA's), (Start: 52 @33283 has 1 MA's), (70, 33412), (75, 33448), (90, 33583),

Gene: Lumos_23 Start: 23491, Stop: 23874, Start Num: 48
Candidate Starts for Lumos_23:
(Start: 48 @23491 has 568 MA's), (56, 23551), (63, 23587), (80, 23734), (84, 23785), (87, 23797), (96, 23854),

Gene: Lynnae_23 Start: 21538, Stop: 21924, Start Num: 48
Candidate Starts for Lynnae_23:
(Start: 48 @21538 has 568 MA's), (69, 21682), (79, 21763), (82, 21796), (85, 21838), (89, 21859), (91, 21877), (94, 21898),

Gene: MAckerman_22 Start: 22873, Stop: 23256, Start Num: 48
Candidate Starts for MAckerman_22:
(Start: 48 @22873 has 568 MA's), (Start: 53 @22909 has 2 MA's), (54, 22912), (63, 22969), (83, 23158), (97, 23239),

Gene: MOOREtheMARYer_25 Start: 24663, Stop: 25052, Start Num: 48
Candidate Starts for MOOREtheMARYer_25:
(Start: 48 @24663 has 568 MA's),

Gene: MRabcd_33 Start: 33260, Stop: 33649, Start Num: 48
Candidate Starts for MRabcd_33:
(Start: 48 @33260 has 568 MA's), (Start: 51 @33284 has 1 MA's), (Start: 52 @33287 has 1 MA's), (70, 33416), (75, 33452), (90, 33587),

Gene: Mag7_33 Start: 33166, Stop: 33555, Start Num: 48
Candidate Starts for Mag7_33:
(Start: 48 @33166 has 568 MA's), (Start: 51 @33190 has 1 MA's), (Start: 52 @33193 has 1 MA's), (70, 33322), (75, 33358), (90, 33493),

Gene: Magic8_34 Start: 33601, Stop: 33990, Start Num: 48
Candidate Starts for Magic8_34:
(Start: 48 @33601 has 568 MA's), (Start: 51 @33625 has 1 MA's), (Start: 52 @33628 has 1 MA's), (70, 33757), (75, 33793), (90, 33928),

Gene: Magpie_30 Start: 33616, Stop: 34011, Start Num: 48
Candidate Starts for Magpie_30:
(16, 33301), (25, 33376), (26, 33382), (28, 33391), (37, 33520), (40, 33529), (Start: 41 @33535 has 2 MA's), (44, 33562), (Start: 48 @33616 has 568 MA's), (49, 33622), (Start: 50 @33628 has 4 MA's), (Start: 53 @33652 has 2 MA's), (55, 33664), (56, 33676), (60, 33697), (61, 33700), (71, 33778), (72, 33790), (94, 33982),

Gene: Mana_33 Start: 33275, Stop: 33664, Start Num: 48
Candidate Starts for Mana_33:
(Start: 48 @33275 has 568 MA's), (Start: 51 @33299 has 1 MA's), (Start: 52 @33302 has 1 MA's), (70, 33431), (75, 33467), (90, 33602),

Gene: Manad_33 Start: 33117, Stop: 33506, Start Num: 48
Candidate Starts for Manad_33:
(Start: 48 @33117 has 568 MA's), (Start: 51 @33141 has 1 MA's), (Start: 52 @33144 has 1 MA's), (70, 33273), (75, 33309), (90, 33444),

Gene: Mao1_28 Start: 29941, Stop: 30330, Start Num: 48
Candidate Starts for Mao1_28:
(Start: 48 @29941 has 568 MA's), (56, 30001), (60, 30022), (74, 30130), (75, 30133), (90, 30268),

Gene: Marley1013_34 Start: 34230, Stop: 34613, Start Num: 48
Candidate Starts for Marley1013_34:
(Start: 48 @34230 has 568 MA's), (60, 34311), (75, 34422), (81, 34479), (87, 34536), (95, 34590),

Gene: Marlia_34 Start: 33433, Stop: 33816, Start Num: 48
Candidate Starts for Marlia_34:
(Start: 48 @33433 has 568 MA's), (55, 33481), (62, 33523), (81, 33682), (87, 33739),

Gene: Maru_33 Start: 33218, Stop: 33607, Start Num: 48
Candidate Starts for Maru_33:
(Start: 48 @33218 has 568 MA's), (Start: 51 @33242 has 1 MA's), (Start: 52 @33245 has 1 MA's), (70, 33374), (75, 33410), (90, 33545),

Gene: Mask_29 Start: 29934, Stop: 30323, Start Num: 48
Candidate Starts for Mask_29:
(Start: 48 @29934 has 568 MA's), (56, 29994), (60, 30015), (75, 30126), (90, 30261),

Gene: Maskar_33 Start: 33115, Stop: 33504, Start Num: 48
Candidate Starts for Maskar_33:
(Start: 48 @33115 has 568 MA's), (Start: 51 @33139 has 1 MA's), (Start: 52 @33142 has 1 MA's), (70, 33271), (75, 33307), (90, 33442),

Gene: MasterPo_34 Start: 33891, Stop: 34280, Start Num: 48
Candidate Starts for MasterPo_34:
(Start: 48 @33891 has 568 MA's), (Start: 51 @33915 has 1 MA's), (Start: 52 @33918 has 1 MA's), (70, 34047), (75, 34083), (90, 34218),

Gene: Matalotodo_34 Start: 33561, Stop: 33950, Start Num: 48
Candidate Starts for Matalotodo_34:
(Start: 48 @33561 has 568 MA's), (Start: 51 @33585 has 1 MA's), (Start: 52 @33588 has 1 MA's), (70, 33717), (75, 33753), (90, 33888),

Gene: Mcshane_33 Start: 33258, Stop: 33647, Start Num: 48
Candidate Starts for Mcshane_33:
(Start: 48 @33258 has 568 MA's), (Start: 51 @33282 has 1 MA's), (Start: 52 @33285 has 1 MA's), (70, 33414), (75, 33450), (90, 33585),

Gene: Mecca_33 Start: 33261, Stop: 33650, Start Num: 48
Candidate Starts for Mecca_33:
(Start: 48 @33261 has 568 MA's), (Start: 51 @33285 has 1 MA's), (Start: 52 @33288 has 1 MA's), (70, 33417), (75, 33453), (90, 33588),

Gene: Megabear_26 Start: 30559, Stop: 30939, Start Num: 48
Candidate Starts for Megabear_26:
(Start: 48 @30559 has 568 MA's), (60, 30637), (61, 30640), (70, 30712), (75, 30748), (81, 30805), (87, 30862),

Gene: Megamind20_34 Start: 33283, Stop: 33672, Start Num: 48
Candidate Starts for Megamind20_34:
(Start: 48 @33283 has 568 MA's), (Start: 51 @33307 has 1 MA's), (Start: 52 @33310 has 1 MA's), (70, 33439), (75, 33475), (90, 33610),

Gene: Megatron_34 Start: 33583, Stop: 33948, Start Num: 51
Candidate Starts for Megatron_34:
(Start: 48 @33559 has 568 MA's), (Start: 51 @33583 has 1 MA's), (Start: 52 @33586 has 1 MA's), (70, 33715), (75, 33751), (90, 33886),

Gene: Melc17_34 Start: 33556, Stop: 33945, Start Num: 48
Candidate Starts for Melc17_34:
(Start: 48 @33556 has 568 MA's), (Start: 51 @33580 has 1 MA's), (Start: 52 @33583 has 1 MA's), (70, 33712), (75, 33748), (90, 33883),

Gene: MelsMeow_33 Start: 33164, Stop: 33553, Start Num: 48
Candidate Starts for MelsMeow_33:

(Start: 48 @33164 has 568 MA's), (Start: 51 @33188 has 1 MA's), (Start: 52 @33191 has 1 MA's), (70, 33320), (75, 33356), (90, 33491),

Gene: Mercurio_26 Start: 25084, Stop: 25467, Start Num: 48
Candidate Starts for Mercurio_26:
(Start: 48 @25084 has 568 MA's), (Start: 52 @25111 has 1 MA's), (56, 25144), (88, 25393), (93, 25435),

Gene: Mesh1_34 Start: 33573, Stop: 33962, Start Num: 48
Candidate Starts for Mesh1_34:
(Start: 48 @33573 has 568 MA's), (Start: 51 @33597 has 1 MA's), (Start: 52 @33600 has 1 MA's), (70, 33729), (75, 33765), (83, 33864), (90, 33900),

Gene: Mesmerelda_33 Start: 33271, Stop: 33660, Start Num: 48
Candidate Starts for Mesmerelda_33:
(Start: 48 @33271 has 568 MA's), (Start: 51 @33295 has 1 MA's), (Start: 52 @33298 has 1 MA's), (70, 33427), (75, 33463), (90, 33598),

Gene: MichaelPhcott_33 Start: 33163, Stop: 33552, Start Num: 48
Candidate Starts for MichaelPhcott_33:
(Start: 48 @33163 has 568 MA's), (Start: 51 @33187 has 1 MA's), (Start: 52 @33190 has 1 MA's), (70, 33319), (75, 33355), (90, 33490),

Gene: Mikota_34 Start: 33546, Stop: 33935, Start Num: 48
Candidate Starts for Mikota_34:
(Start: 48 @33546 has 568 MA's), (Start: 51 @33570 has 1 MA's), (Start: 52 @33573 has 1 MA's), (70, 33702), (75, 33738), (90, 33873),

Gene: MilanaBonita_21 Start: 21535, Stop: 21918, Start Num: 48
Candidate Starts for MilanaBonita_21:
(Start: 48 @21535 has 568 MA's), (61, 21619), (70, 21691), (77, 21733), (79, 21757), (90, 21856),

Gene: Miley16_23 Start: 21550, Stop: 21936, Start Num: 48
Candidate Starts for Miley16_23:
(Start: 48 @21550 has 568 MA's), (69, 21694), (79, 21775), (82, 21808), (85, 21850), (89, 21871), (91, 21889), (94, 21910),

Gene: MiniBoss_34 Start: 33552, Stop: 33941, Start Num: 48
Candidate Starts for MiniBoss_34:
(Start: 48 @33552 has 568 MA's), (Start: 51 @33576 has 1 MA's), (Start: 52 @33579 has 1 MA's), (70, 33708), (75, 33744), (90, 33879),

Gene: MiniLon_23 Start: 23272, Stop: 23655, Start Num: 48
Candidate Starts for MiniLon_23:
(Start: 48 @23272 has 568 MA's), (56, 23332), (64, 23374), (80, 23515), (84, 23566), (96, 23635),

Gene: MiniMac_23 Start: 23273, Stop: 23656, Start Num: 48
Candidate Starts for MiniMac_23:
(Start: 48 @23273 has 568 MA's), (56, 23333), (80, 23516), (84, 23567), (96, 23636),

Gene: Minnow_29 Start: 31272, Stop: 31658, Start Num: 48
Candidate Starts for Minnow_29:

(Start: 48 @31272 has 568 MA's), (Start: 52 @31299 has 1 MA's), (56, 31335), (61, 31359), (77, 31473), (87, 31581),

Gene: MitKao_34 Start: 33267, Stop: 33656, Start Num: 48
Candidate Starts for MitKao_34:
(Start: 48 @33267 has 568 MA's), (Start: 51 @33291 has 1 MA's), (Start: 52 @33294 has 1 MA's), (70, 33423), (75, 33459), (90, 33594),

Gene: Mithril_31 Start: 33788, Stop: 34180, Start Num: 48
Candidate Starts for Mithril_31:
(16, 33473), (25, 33548), (28, 33563), (32, 33668), (37, 33692), (40, 33701), (Start: 41 @33707 has 2 MA's), (Start: 48 @33788 has 568 MA's), (49, 33794), (Start: 50 @33800 has 4 MA's), (Start: 53 @33824 has 2 MA's), (55, 33836), (56, 33848), (60, 33869), (61, 33872), (71, 33950), (72, 33962), (94, 34154),

Gene: MkaliMitinis3_23 Start: 21550, Stop: 21936, Start Num: 48
Candidate Starts for MkaliMitinis3_23:
(Start: 48 @21550 has 568 MA's), (69, 21694), (79, 21775), (82, 21808), (85, 21850), (89, 21871), (91, 21889), (94, 21910),

Gene: MmasiCarm_34 Start: 33434, Stop: 33817, Start Num: 48
Candidate Starts for MmasiCarm_34:
(Start: 48 @33434 has 568 MA's), (60, 33515), (61, 33518), (75, 33626), (81, 33683), (87, 33740), (95, 33794),

Gene: Molivier_23 Start: 21556, Stop: 21942, Start Num: 48
Candidate Starts for Molivier_23:
(Start: 48 @21556 has 568 MA's), (79, 21781), (82, 21814), (85, 21856), (86, 21859), (89, 21877), (91, 21895), (98, 21931),

Gene: Moostard_23 Start: 23497, Stop: 23880, Start Num: 48
Candidate Starts for Moostard_23:
(Start: 48 @23497 has 568 MA's), (56, 23557), (80, 23740), (84, 23791), (87, 23803), (96, 23860),

Gene: Morgushi_34 Start: 33268, Stop: 33657, Start Num: 48
Candidate Starts for Morgushi_34:
(Start: 48 @33268 has 568 MA's), (Start: 51 @33292 has 1 MA's), (Start: 52 @33295 has 1 MA's), (70, 33424), (75, 33460), (90, 33595),

Gene: Mortcellus_33 Start: 34086, Stop: 34469, Start Num: 48
Candidate Starts for Mortcellus_33:
(Start: 48 @34086 has 568 MA's), (60, 34167), (61, 34170), (75, 34278), (81, 34335), (87, 34392), (95, 34446),

Gene: Morty_34 Start: 33568, Stop: 33957, Start Num: 48
Candidate Starts for Morty_34:
(Start: 48 @33568 has 568 MA's), (Start: 51 @33592 has 1 MA's), (Start: 52 @33595 has 1 MA's), (70, 33724), (75, 33760), (90, 33895),

Gene: Morty007_34 Start: 34230, Stop: 34613, Start Num: 48
Candidate Starts for Morty007_34:
(Start: 48 @34230 has 568 MA's), (60, 34311), (75, 34422), (81, 34479), (87, 34536), (95, 34590),

Gene: Mosaic_33 Start: 33273, Stop: 33662, Start Num: 48
Candidate Starts for Mosaic_33:
(Start: 48 @33273 has 568 MA's), (Start: 51 @33297 has 1 MA's), (Start: 52 @33300 has 1 MA's), (70, 33429), (75, 33465), (90, 33600),

Gene: MrPhizzler_34 Start: 33276, Stop: 33665, Start Num: 48
Candidate Starts for MrPhizzler_34:
(Start: 48 @33276 has 568 MA's), (Start: 51 @33300 has 1 MA's), (Start: 52 @33303 has 1 MA's), (70, 33432), (75, 33468), (90, 33603),

Gene: Ms6_21 Start: 21120, Stop: 21500, Start Num: 48
Candidate Starts for Ms6_21:
(1, 20568), (8, 20742), (14, 20796), (17, 20811), (23, 20856), (Start: 48 @21120 has 568 MA's), (61, 21201), (70, 21273), (77, 21315), (79, 21339), (81, 21366), (90, 21438),

Gene: MsGreen_23 Start: 23494, Stop: 23877, Start Num: 48
Candidate Starts for MsGreen_23:
(Start: 48 @23494 has 568 MA's), (56, 23554), (63, 23590), (80, 23737), (84, 23788), (87, 23800), (96, 23857),

Gene: Mudslide_31 Start: 34020, Stop: 34412, Start Num: 48
Candidate Starts for Mudslide_31:
(3, 33546), (16, 33705), (25, 33780), (28, 33795), (29, 33801), (37, 33924), (38, 33927), (40, 33933), (Start: 41 @33939 has 2 MA's), (Start: 48 @34020 has 568 MA's), (49, 34026), (Start: 50 @34032 has 4 MA's), (Start: 53 @34056 has 2 MA's), (55, 34068), (56, 34080), (60, 34101), (61, 34104), (71, 34182), (72, 34194), (94, 34386),

Gene: Mulan_33 Start: 33285, Stop: 33674, Start Num: 48
Candidate Starts for Mulan_33:
(Start: 48 @33285 has 568 MA's), (Start: 51 @33309 has 1 MA's), (Start: 52 @33312 has 1 MA's), (70, 33441), (75, 33477), (90, 33612),

Gene: Mulaychimus_34 Start: 33416, Stop: 33799, Start Num: 48
Candidate Starts for Mulaychimus_34:
(Start: 48 @33416 has 568 MA's), (60, 33497), (75, 33608), (81, 33665), (87, 33722), (95, 33776),

Gene: Murdoc_34 Start: 33560, Stop: 33949, Start Num: 48
Candidate Starts for Murdoc_34:
(Start: 48 @33560 has 568 MA's), (Start: 51 @33584 has 1 MA's), (Start: 52 @33587 has 1 MA's), (70, 33716), (75, 33752), (90, 33887),

Gene: Mutante_33 Start: 33267, Stop: 33656, Start Num: 48
Candidate Starts for Mutante_33:
(Start: 48 @33267 has 568 MA's), (Start: 51 @33291 has 1 MA's), (Start: 52 @33294 has 1 MA's), (70, 33423), (75, 33459), (90, 33594),

Gene: Mysterious_33 Start: 34392, Stop: 34781, Start Num: 48
Candidate Starts for Mysterious_33:
(Start: 48 @34392 has 568 MA's), (55, 34440), (81, 34641), (87, 34704),

Gene: Nacho_0034 Start: 33562, Stop: 33951, Start Num: 48
Candidate Starts for Nacho_0034:

(Start: 48 @33562 has 568 MA's), (Start: 51 @33586 has 1 MA's), (Start: 52 @33589 has 1 MA's), (70, 33718), (75, 33754), (90, 33889),

Gene: Nanao_30 Start: 32745, Stop: 33137, Start Num: 48
Candidate Starts for Nanao_30:
(3, 32271), (16, 32430), (25, 32505), (27, 32514), (28, 32520), (37, 32649), (40, 32658), (Start: 41 @32664 has 2 MA's), (42, 32679), (44, 32691), (Start: 48 @32745 has 568 MA's), (49, 32751), (Start: 50 @32757 has 4 MA's), (Start: 53 @32781 has 2 MA's), (55, 32793), (56, 32805), (60, 32826), (61, 32829), (71, 32907), (72, 32919), (94, 33111),

Gene: Nangang_33 Start: 34079, Stop: 34468, Start Num: 48
Candidate Starts for Nangang_33:
(5, 33638), (10, 33722), (20, 33806), (Start: 48 @34079 has 568 MA's), (55, 34127), (75, 34271), (81, 34328),

Gene: Nanosmite_37 Start: 29051, Stop: 29440, Start Num: 48
Candidate Starts for Nanosmite_37:
(Start: 48 @29051 has 568 MA's), (Start: 50 @29063 has 4 MA's), (Start: 53 @29087 has 2 MA's), (61, 29135), (62, 29141), (69, 29195), (74, 29240), (77, 29249),

Gene: Nathan_34 Start: 33598, Stop: 33987, Start Num: 48
Candidate Starts for Nathan_34:
(Start: 48 @33598 has 568 MA's), (Start: 51 @33622 has 1 MA's), (Start: 52 @33625 has 1 MA's), (70, 33754), (75, 33790), (90, 33925),

Gene: Nehemiah_32 Start: 34392, Stop: 34781, Start Num: 48
Candidate Starts for Nehemiah_32:
(Start: 48 @34392 has 568 MA's), (55, 34440), (81, 34641), (87, 34704),

Gene: Nehme_33 Start: 33318, Stop: 33683, Start Num: 51
Candidate Starts for Nehme_33:
(Start: 48 @33294 has 568 MA's), (Start: 51 @33318 has 1 MA's), (Start: 52 @33321 has 1 MA's), (70, 33450), (75, 33486), (90, 33621),

Gene: Nenae_23 Start: 21267, Stop: 21647, Start Num: 48
Candidate Starts for Nenae_23:
(1, 20715), (8, 20889), (14, 20943), (17, 20958), (23, 21003), (Start: 48 @21267 has 568 MA's), (57, 21327), (59, 21342), (61, 21348), (70, 21420), (77, 21462), (79, 21486), (81, 21513), (90, 21585),

Gene: Neos5_34 Start: 34249, Stop: 34632, Start Num: 48
Candidate Starts for Neos5_34:
(Start: 48 @34249 has 568 MA's), (60, 34330), (61, 34333), (75, 34441), (81, 34498), (87, 34555), (95, 34609),

Gene: Netyap_23 Start: 21550, Stop: 21936, Start Num: 48
Candidate Starts for Netyap_23:
(Start: 48 @21550 has 568 MA's), (69, 21694), (79, 21775), (82, 21808), (85, 21850), (89, 21871), (91, 21889), (94, 21910),

Gene: Newman_34 Start: 33559, Stop: 33948, Start Num: 48
Candidate Starts for Newman_34:
(Start: 48 @33559 has 568 MA's), (Start: 51 @33583 has 1 MA's), (Start: 52 @33586 has 1 MA's), (70, 33715), (75, 33751), (90, 33886),

Gene: NiaNia_35 Start: 33290, Stop: 33679, Start Num: 48
Candidate Starts for NiaNia_35:
(Start: 48 @33290 has 568 MA's), (Start: 51 @33314 has 1 MA's), (Start: 52 @33317 has 1 MA's), (70, 33446), (75, 33482), (90, 33617),

Gene: Nicholas_23 Start: 23494, Stop: 23877, Start Num: 48
Candidate Starts for Nicholas_23:
(Start: 48 @23494 has 568 MA's), (56, 23554), (63, 23590), (80, 23737), (84, 23788), (87, 23800), (96, 23857),

Gene: Nicholasp3_23 Start: 21555, Stop: 21941, Start Num: 48
Candidate Starts for Nicholasp3_23:
(Start: 48 @21555 has 568 MA's), (79, 21780), (82, 21813), (85, 21855), (86, 21858), (89, 21876), (91, 21894), (98, 21930),

Gene: Nicole21_34 Start: 33557, Stop: 33946, Start Num: 48
Candidate Starts for Nicole21_34:
(Start: 48 @33557 has 568 MA's), (Start: 51 @33581 has 1 MA's), (Start: 52 @33584 has 1 MA's), (70, 33713), (75, 33749), (90, 33884),

Gene: Nigel_29 Start: 32662, Stop: 33057, Start Num: 48
Candidate Starts for Nigel_29:
(18, 32368), (27, 32431), (28, 32437), (37, 32566), (40, 32575), (Start: 48 @32662 has 568 MA's), (49, 32668), (Start: 50 @32674 has 4 MA's), (Start: 53 @32698 has 2 MA's), (55, 32710), (56, 32722), (60, 32743), (61, 32746), (71, 32824), (72, 32836), (94, 33028),

Gene: Nova1_33 Start: 33216, Stop: 33605, Start Num: 48
Candidate Starts for Nova1_33:
(Start: 48 @33216 has 568 MA's), (Start: 51 @33240 has 1 MA's), (Start: 52 @33243 has 1 MA's), (70, 33372), (75, 33408), (90, 33543),

Gene: Nozo_34 Start: 34210, Stop: 34593, Start Num: 48
Candidate Starts for Nozo_34:
(Start: 48 @34210 has 568 MA's), (60, 34291), (61, 34294), (75, 34402), (81, 34459), (87, 34516), (95, 34570),

Gene: Numberten_34 Start: 33566, Stop: 33955, Start Num: 48
Candidate Starts for Numberten_34:
(Start: 48 @33566 has 568 MA's), (Start: 51 @33590 has 1 MA's), (Start: 52 @33593 has 1 MA's), (70, 33722), (75, 33758), (90, 33893),

Gene: Nyala_33 Start: 33259, Stop: 33648, Start Num: 48
Candidate Starts for Nyala_33:
(Start: 48 @33259 has 568 MA's), (Start: 51 @33283 has 1 MA's), (Start: 52 @33286 has 1 MA's), (70, 33415), (75, 33451), (90, 33586),

Gene: OSmaximus_34 Start: 33601, Stop: 33990, Start Num: 48
Candidate Starts for OSmaximus_34:
(Start: 48 @33601 has 568 MA's), (Start: 51 @33625 has 1 MA's), (Start: 52 @33628 has 1 MA's), (70, 33757), (75, 33793), (90, 33928),

Gene: Obutu_34 Start: 33434, Stop: 33817, Start Num: 48

Candidate Starts for Obutu_34:
(Start: 48 @33434 has 568 MA's), (60, 33515), (75, 33626), (81, 33683), (87, 33740), (95, 33794),

Gene: OhShagHennessy_22 Start: 22838, Stop: 23221, Start Num: 48
Candidate Starts for OhShagHennessy_22:
(Start: 48 @22838 has 568 MA's), (Start: 53 @22874 has 2 MA's), (54, 22877), (63, 22934), (83, 23123), (97, 23204),

Gene: Olak_33 Start: 33262, Stop: 33651, Start Num: 48
Candidate Starts for Olak_33:
(Start: 48 @33262 has 568 MA's), (Start: 51 @33286 has 1 MA's), (Start: 52 @33289 has 1 MA's), (70, 33418), (75, 33454), (90, 33589),

Gene: Oline_33 Start: 33128, Stop: 33517, Start Num: 48
Candidate Starts for Oline_33:
(Start: 48 @33128 has 568 MA's), (Start: 51 @33152 has 1 MA's), (Start: 52 @33155 has 1 MA's), (70, 33284), (75, 33320), (90, 33455),

Gene: Olive_34 Start: 33549, Stop: 33938, Start Num: 48
Candidate Starts for Olive_34:
(Start: 48 @33549 has 568 MA's), (Start: 51 @33573 has 1 MA's), (Start: 52 @33576 has 1 MA's), (70, 33705), (75, 33741), (90, 33876),

Gene: OliverWalter_34 Start: 33598, Stop: 33960, Start Num: 52
Candidate Starts for OliverWalter_34:
(Start: 48 @33571 has 568 MA's), (Start: 51 @33595 has 1 MA's), (Start: 52 @33598 has 1 MA's), (70, 33727), (75, 33763), (90, 33898),

Gene: Olivio_33 Start: 33303, Stop: 33686, Start Num: 48
Candidate Starts for Olivio_33:
(Start: 48 @33303 has 568 MA's), (60, 33384), (61, 33387), (75, 33495), (81, 33552), (87, 33609), (95, 33663),

Gene: Omniscient_34 Start: 33568, Stop: 33957, Start Num: 48
Candidate Starts for Omniscient_34:
(Start: 48 @33568 has 568 MA's), (Start: 51 @33592 has 1 MA's), (Start: 52 @33595 has 1 MA's), (70, 33724), (75, 33760), (90, 33895),

Gene: OneBrain_34 Start: 33267, Stop: 33656, Start Num: 48
Candidate Starts for OneBrain_34:
(Start: 48 @33267 has 568 MA's), (Start: 51 @33291 has 1 MA's), (Start: 52 @33294 has 1 MA's), (70, 33423), (75, 33459), (90, 33594),

Gene: Oosterbaan_34 Start: 33559, Stop: 33948, Start Num: 48
Candidate Starts for Oosterbaan_34:
(Start: 48 @33559 has 568 MA's), (Start: 51 @33583 has 1 MA's), (Start: 52 @33586 has 1 MA's), (70, 33715), (75, 33751), (83, 33850), (90, 33886),

Gene: Opia_34 Start: 33877, Stop: 34266, Start Num: 48
Candidate Starts for Opia_34:
(Start: 48 @33877 has 568 MA's), (Start: 51 @33901 has 1 MA's), (Start: 52 @33904 has 1 MA's), (70, 34033), (75, 34069), (90, 34204),

Gene: OrangeOswald_34 Start: 33451, Stop: 33834, Start Num: 48
Candidate Starts for OrangeOswald_34:
(Start: 48 @33451 has 568 MA's), (60, 33532), (61, 33535), (75, 33643), (81, 33700), (87, 33757), (95, 33811),

Gene: Orfeu_33 Start: 33267, Stop: 33656, Start Num: 48
Candidate Starts for Orfeu_33:
(Start: 48 @33267 has 568 MA's), (Start: 51 @33291 has 1 MA's), (Start: 52 @33294 has 1 MA's), (70, 33423), (75, 33459), (90, 33594),

Gene: Orion_34 Start: 33557, Stop: 33946, Start Num: 48
Candidate Starts for Orion_34:
(Start: 48 @33557 has 568 MA's), (Start: 51 @33581 has 1 MA's), (Start: 52 @33584 has 1 MA's), (70, 33713), (75, 33749), (83, 33848), (90, 33884),

Gene: Orwigg_33 Start: 33255, Stop: 33644, Start Num: 48
Candidate Starts for Orwigg_33:
(Start: 48 @33255 has 568 MA's), (Start: 51 @33279 has 1 MA's), (Start: 52 @33282 has 1 MA's), (70, 33411), (75, 33447), (90, 33582),

Gene: OverPar_23 Start: 21582, Stop: 21968, Start Num: 48
Candidate Starts for OverPar_23:
(Start: 48 @21582 has 568 MA's), (69, 21726), (79, 21807), (82, 21840), (85, 21882), (89, 21903), (91, 21921), (94, 21942),

Gene: P3MA_25 Start: 21993, Stop: 22385, Start Num: 48
Candidate Starts for P3MA_25:
(Start: 48 @21993 has 568 MA's), (56, 22053), (61, 22077), (63, 22089), (69, 22137), (81, 22242), (98, 22371),

Gene: PG1_34 Start: 33570, Stop: 33959, Start Num: 48
Candidate Starts for PG1_34:
(Start: 48 @33570 has 568 MA's), (Start: 51 @33594 has 1 MA's), (Start: 52 @33597 has 1 MA's), (70, 33726), (75, 33762), (83, 33861), (90, 33897),

Gene: PR_26 Start: 31160, Stop: 31543, Start Num: 48
Candidate Starts for PR_26:
(Start: 48 @31160 has 568 MA's), (60, 31241), (61, 31244), (75, 31352), (87, 31466), (95, 31520),

Gene: PYPDinur_22 Start: 22602, Stop: 22985, Start Num: 48
Candidate Starts for PYPDinur_22:
(Start: 48 @22602 has 568 MA's), (68, 22743), (71, 22764), (83, 22887),

Gene: Pace1224_24 Start: 24498, Stop: 24881, Start Num: 48
Candidate Starts for Pace1224_24:
(Start: 48 @24498 has 568 MA's), (54, 24537), (73, 24678), (87, 24804), (90, 24819),

Gene: Pacifista_33 Start: 33261, Stop: 33650, Start Num: 48
Candidate Starts for Pacifista_33:
(Start: 48 @33261 has 568 MA's), (Start: 51 @33285 has 1 MA's), (Start: 52 @33288 has 1 MA's), (70, 33417), (75, 33453), (90, 33588),

Gene: PallasAthena_33 Start: 33269, Stop: 33658, Start Num: 48

Candidate Starts for PallasAthena_33:
(Start: 48 @33269 has 568 MA's), (Start: 51 @33293 has 1 MA's), (Start: 52 @33296 has 1 MA's), (70, 33425), (75, 33461), (90, 33596),

Gene: PenguinLover67_35 Start: 35106, Stop: 35495, Start Num: 48
Candidate Starts for PenguinLover67_35:
(Start: 48 @35106 has 568 MA's), (56, 35166), (65, 35229), (67, 35241), (70, 35262), (90, 35433), (92, 35454),

Gene: Phaedrus_32 Start: 33371, Stop: 33754, Start Num: 48
Candidate Starts for Phaedrus_32:
(Start: 48 @33371 has 568 MA's), (55, 33419), (62, 33461), (81, 33620), (87, 33677),

Gene: Phamished_34 Start: 33565, Stop: 33954, Start Num: 48
Candidate Starts for Phamished_34:
(Start: 48 @33565 has 568 MA's), (Start: 51 @33589 has 1 MA's), (Start: 52 @33592 has 1 MA's), (70, 33721), (75, 33757), (90, 33892),

Gene: PhancyPhin_23 Start: 21264, Stop: 21644, Start Num: 48
Candidate Starts for PhancyPhin_23:
(1, 20712), (8, 20886), (14, 20940), (17, 20955), (23, 21000), (Start: 48 @21264 has 568 MA's), (57, 21324), (59, 21339), (61, 21345), (70, 21417), (77, 21459), (79, 21483), (81, 21510), (90, 21582),

Gene: Phantasmagoria_34 Start: 33889, Stop: 34278, Start Num: 48
Candidate Starts for Phantasmagoria_34:
(Start: 48 @33889 has 568 MA's), (Start: 51 @33913 has 1 MA's), (Start: 52 @33916 has 1 MA's), (70, 34045), (75, 34081), (90, 34216),

Gene: Phareon_34 Start: 33269, Stop: 33658, Start Num: 48
Candidate Starts for Phareon_34:
(Start: 48 @33269 has 568 MA's), (Start: 51 @33293 has 1 MA's), (Start: 52 @33296 has 1 MA's), (70, 33425), (75, 33461), (90, 33596),

Gene: PhatCats2014_34 Start: 33574, Stop: 33963, Start Num: 48
Candidate Starts for PhatCats2014_34:
(Start: 48 @33574 has 568 MA's), (Start: 51 @33598 has 1 MA's), (Start: 52 @33601 has 1 MA's), (70, 33730), (75, 33766), (83, 33865), (90, 33901),

Gene: PhatLouie_34 Start: 33563, Stop: 33952, Start Num: 48
Candidate Starts for PhatLouie_34:
(Start: 48 @33563 has 568 MA's), (Start: 51 @33587 has 1 MA's), (Start: 52 @33590 has 1 MA's), (70, 33719), (75, 33755), (90, 33890),

Gene: Phayeta_35 Start: 33316, Stop: 33699, Start Num: 48
Candidate Starts for Phayeta_35:
(Start: 48 @33316 has 568 MA's), (60, 33397), (75, 33508), (81, 33565), (87, 33622), (95, 33676),

Gene: Phelemich_33 Start: 34391, Stop: 34780, Start Num: 48
Candidate Starts for Phelemich_33:
(5, 33950), (10, 34034), (20, 34118), (Start: 48 @34391 has 568 MA's), (55, 34439), (81, 34640), (87, 34703),

Gene: PhenghisKhan_33 Start: 33169, Stop: 33558, Start Num: 48

Candidate Starts for PhenghisKhan_33:
(Start: 48 @33169 has 568 MA's), (Start: 51 @33193 has 1 MA's), (Start: 52 @33196 has 1 MA's), (70, 33325), (75, 33361), (90, 33496),

Gene: Pherdinand_34 Start: 33565, Stop: 33954, Start Num: 48
Candidate Starts for Pherdinand_34:
(Start: 48 @33565 has 568 MA's), (Start: 51 @33589 has 1 MA's), (Start: 52 @33592 has 1 MA's), (70, 33721), (75, 33757), (90, 33892),

Gene: Phergie_33 Start: 33160, Stop: 33549, Start Num: 48
Candidate Starts for Phergie_33:
(Start: 48 @33160 has 568 MA's), (Start: 51 @33184 has 1 MA's), (Start: 52 @33187 has 1 MA's), (70, 33316), (75, 33352), (90, 33487),

Gene: Philly_33 Start: 33302, Stop: 33685, Start Num: 48
Candidate Starts for Philly_33:
(Start: 48 @33302 has 568 MA's), (60, 33383), (61, 33386), (75, 33494), (81, 33551), (87, 33608), (95, 33662),

Gene: Phipps_34 Start: 33536, Stop: 33925, Start Num: 48
Candidate Starts for Phipps_34:
(Start: 48 @33536 has 568 MA's), (Start: 51 @33560 has 1 MA's), (Start: 52 @33563 has 1 MA's), (70, 33692), (75, 33728), (90, 33863),

Gene: Phleuron_33 Start: 33166, Stop: 33555, Start Num: 48
Candidate Starts for Phleuron_33:
(Start: 48 @33166 has 568 MA's), (Start: 51 @33190 has 1 MA's), (Start: 52 @33193 has 1 MA's), (70, 33322), (75, 33358), (90, 33493),

Gene: Phloss_23 Start: 21596, Stop: 21976, Start Num: 48
Candidate Starts for Phloss_23:
(12, 21266), (13, 21269), (14, 21272), (20, 21323), (22, 21329), (Start: 48 @21596 has 568 MA's), (57, 21656), (70, 21749), (81, 21842), (90, 21914),

Gene: Phlyer_34 Start: 34190, Stop: 34573, Start Num: 48
Candidate Starts for Phlyer_34:
(Start: 48 @34190 has 568 MA's), (55, 34238), (62, 34280), (81, 34439), (87, 34496),

Gene: PhrankReynolds_33 Start: 33166, Stop: 33555, Start Num: 48
Candidate Starts for PhrankReynolds_33:
(Start: 48 @33166 has 568 MA's), (Start: 51 @33190 has 1 MA's), (Start: 52 @33193 has 1 MA's), (70, 33322), (75, 33358), (90, 33493),

Gene: PhrodoBaggins_33 Start: 33553, Stop: 33942, Start Num: 48
Candidate Starts for PhrodoBaggins_33:
(Start: 48 @33553 has 568 MA's), (Start: 51 @33577 has 1 MA's), (Start: 52 @33580 has 1 MA's), (70, 33709), (75, 33745), (90, 33880),

Gene: Phunky_34 Start: 33566, Stop: 33955, Start Num: 48
Candidate Starts for Phunky_34:
(Start: 48 @33566 has 568 MA's), (Start: 51 @33590 has 1 MA's), (Start: 52 @33593 has 1 MA's), (70, 33722), (75, 33758), (90, 33893),

Gene: Piglet_0033 Start: 33673, Stop: 34062, Start Num: 48
Candidate Starts for Piglet_0033:
(Start: 48 @33673 has 568 MA's), (Start: 51 @33697 has 1 MA's), (Start: 52 @33700 has 1 MA's), (70, 33829), (75, 33865), (90, 34000),

Gene: PinheadLarry_34 Start: 33279, Stop: 33668, Start Num: 48
Candidate Starts for PinheadLarry_34:
(Start: 48 @33279 has 568 MA's), (Start: 51 @33303 has 1 MA's), (Start: 52 @33306 has 1 MA's), (70, 33435), (75, 33471), (90, 33606),

Gene: Pinkman_33 Start: 33122, Stop: 33511, Start Num: 48
Candidate Starts for Pinkman_33:
(Start: 48 @33122 has 568 MA's), (Start: 51 @33146 has 1 MA's), (Start: 52 @33149 has 1 MA's), (70, 33278), (75, 33314), (90, 33449),

Gene: Pinnie_25 Start: 25044, Stop: 25427, Start Num: 48
Candidate Starts for Pinnie_25:
(Start: 48 @25044 has 568 MA's), (68, 25185),

Gene: Pipefish_36 Start: 34843, Stop: 35226, Start Num: 48
Candidate Starts for Pipefish_36:
(Start: 48 @34843 has 568 MA's), (60, 34924), (61, 34927), (75, 35035), (81, 35092), (87, 35149),

Gene: Pippy_21 Start: 21646, Stop: 22026, Start Num: 48
Candidate Starts for Pippy_21:
(12, 21316), (13, 21319), (14, 21322), (17, 21337), (20, 21373), (22, 21379), (Start: 48 @21646 has 568 MA's), (57, 21706), (70, 21799), (81, 21892), (90, 21964),

Gene: Pipsqueak_34 Start: 33564, Stop: 33953, Start Num: 48
Candidate Starts for Pipsqueak_34:
(Start: 48 @33564 has 568 MA's), (Start: 51 @33588 has 1 MA's), (Start: 52 @33591 has 1 MA's), (70, 33720), (75, 33756), (90, 33891),

Gene: Placalicious_33 Start: 33257, Stop: 33646, Start Num: 48
Candidate Starts for Placalicious_33:
(Start: 48 @33257 has 568 MA's), (Start: 51 @33281 has 1 MA's), (Start: 52 @33284 has 1 MA's), (70, 33413), (75, 33449), (83, 33548), (90, 33584),

Gene: Plata_33 Start: 33278, Stop: 33667, Start Num: 48
Candidate Starts for Plata_33:
(Start: 48 @33278 has 568 MA's), (Start: 51 @33302 has 1 MA's), (Start: 52 @33305 has 1 MA's), (70, 33434), (75, 33470), (90, 33605),

Gene: Plmatters_34 Start: 33563, Stop: 33952, Start Num: 48
Candidate Starts for Plmatters_34:
(Start: 48 @33563 has 568 MA's), (Start: 51 @33587 has 1 MA's), (Start: 52 @33590 has 1 MA's), (70, 33719), (75, 33755), (90, 33890),

Gene: Podrick_34 Start: 33554, Stop: 33943, Start Num: 48
Candidate Starts for Podrick_34:
(Start: 48 @33554 has 568 MA's), (Start: 51 @33578 has 1 MA's), (Start: 52 @33581 has 1 MA's), (70, 33710), (75, 33746), (90, 33881),

Gene: Poochiewood_22 Start: 22873, Stop: 23256, Start Num: 48
Candidate Starts for Poochiewood_22:
(Start: 48 @22873 has 568 MA's), (Start: 53 @22909 has 2 MA's), (54, 22912), (63, 22969), (83, 23158), (97, 23239),

Gene: Pops_34 Start: 33578, Stop: 33967, Start Num: 48
Candidate Starts for Pops_34:
(Start: 48 @33578 has 568 MA's), (Start: 51 @33602 has 1 MA's), (Start: 52 @33605 has 1 MA's), (70, 33734), (75, 33770), (90, 33905),

Gene: Poster_30 Start: 32758, Stop: 33138, Start Num: 50
Candidate Starts for Poster_30:
(3, 32272), (16, 32431), (25, 32506), (27, 32515), (28, 32521), (37, 32650), (40, 32659), (Start: 41 @32665 has 2 MA's), (42, 32680), (44, 32692), (Start: 48 @32746 has 568 MA's), (49, 32752), (Start: 50 @32758 has 4 MA's), (Start: 53 @32782 has 2 MA's), (55, 32794), (56, 32806), (60, 32827), (61, 32830), (71, 32908), (72, 32920), (94, 33112),

Gene: Potter_33 Start: 33278, Stop: 33667, Start Num: 48
Candidate Starts for Potter_33:
(Start: 48 @33278 has 568 MA's), (Start: 51 @33302 has 1 MA's), (Start: 52 @33305 has 1 MA's), (70, 33434), (75, 33470), (90, 33605),

Gene: Prickles_34 Start: 33554, Stop: 33943, Start Num: 48
Candidate Starts for Prickles_34:
(Start: 48 @33554 has 568 MA's), (Start: 51 @33578 has 1 MA's), (Start: 52 @33581 has 1 MA's), (70, 33710), (75, 33746), (90, 33881),

Gene: Prince_31 Start: 33929, Stop: 34321, Start Num: 48
Candidate Starts for Prince_31:
(3, 33455), (16, 33614), (25, 33689), (28, 33704), (29, 33710), (37, 33833), (40, 33842), (Start: 41 @33848 has 2 MA's), (42, 33863), (44, 33875), (Start: 48 @33929 has 568 MA's), (49, 33935), (Start: 50 @33941 has 4 MA's), (Start: 53 @33965 has 2 MA's), (55, 33977), (56, 33989), (60, 34010), (61, 34013), (71, 34091), (72, 34103), (94, 34295),

Gene: PrinceCharming_34 Start: 33995, Stop: 34384, Start Num: 48
Candidate Starts for PrinceCharming_34:
(Start: 48 @33995 has 568 MA's), (Start: 51 @34019 has 1 MA's), (Start: 52 @34022 has 1 MA's), (70, 34151), (75, 34187), (90, 34322),

Gene: ProfessorX_34 Start: 33549, Stop: 33938, Start Num: 48
Candidate Starts for ProfessorX_34:
(Start: 48 @33549 has 568 MA's), (Start: 51 @33573 has 1 MA's), (Start: 52 @33576 has 1 MA's), (70, 33705), (75, 33741), (90, 33876),

Gene: Puhltonio_34 Start: 33570, Stop: 33959, Start Num: 48
Candidate Starts for Puhltonio_34:
(Start: 48 @33570 has 568 MA's), (Start: 51 @33594 has 1 MA's), (Start: 52 @33597 has 1 MA's), (70, 33726), (75, 33762), (90, 33897),

Gene: Purgamenstris_23 Start: 21267, Stop: 21647, Start Num: 48
Candidate Starts for Purgamenstris_23:
(1, 20715), (8, 20889), (14, 20943), (17, 20958), (23, 21003), (Start: 48 @21267 has 568 MA's), (57, 21327), (59, 21342), (61, 21348), (70, 21420), (77, 21462), (79, 21486), (81, 21513), (90, 21585),

Gene: QueenBeane_34 Start: 33560, Stop: 33949, Start Num: 48
Candidate Starts for QueenBeane_34:
(Start: 48 @33560 has 568 MA's), (Start: 51 @33584 has 1 MA's), (Start: 52 @33587 has 1 MA's), (70, 33716), (75, 33752), (90, 33887),

Gene: QueenHazel_23 Start: 22673, Stop: 23056, Start Num: 48
Candidate Starts for QueenHazel_23:
(Start: 48 @22673 has 568 MA's), (61, 22757), (77, 22871), (79, 22895), (90, 22994),

Gene: QueenPie_30 Start: 33882, Stop: 34262, Start Num: 50
Candidate Starts for QueenPie_30:
(28, 33645), (37, 33774), (40, 33783), (44, 33816), (Start: 48 @33870 has 568 MA's), (49, 33876), (Start: 50 @33882 has 4 MA's), (Start: 51 @33894 has 1 MA's), (Start: 53 @33906 has 2 MA's), (55, 33918), (56, 33930), (60, 33951), (61, 33954), (71, 34032), (72, 34044), (83, 34164), (94, 34236),

Gene: Quesadilla_35 Start: 35120, Stop: 35503, Start Num: 48
Candidate Starts for Quesadilla_35:
(Start: 48 @35120 has 568 MA's), (56, 35180), (65, 35243), (67, 35255), (70, 35276), (71, 35282), (87, 35426), (90, 35441), (92, 35462),

Gene: Quisquiliae_34 Start: 33588, Stop: 33977, Start Num: 48
Candidate Starts for Quisquiliae_34:
(Start: 48 @33588 has 568 MA's), (Start: 51 @33612 has 1 MA's), (Start: 52 @33615 has 1 MA's), (70, 33744), (75, 33780), (90, 33915),

Gene: Qyrzula_32 Start: 34008, Stop: 34391, Start Num: 48
Candidate Starts for Qyrzula_32:
(Start: 48 @34008 has 568 MA's), (60, 34089), (61, 34092), (75, 34200), (81, 34257), (87, 34314),

Gene: RagingRooster_34 Start: 33452, Stop: 33835, Start Num: 48
Candidate Starts for RagingRooster_34:
(Start: 48 @33452 has 568 MA's), (60, 33533), (61, 33536), (75, 33644), (81, 33701), (87, 33758), (95, 33812),

Gene: RawrgerThat_31 Start: 33775, Stop: 34167, Start Num: 48
Candidate Starts for RawrgerThat_31:
(3, 33301), (16, 33460), (25, 33535), (27, 33544), (28, 33550), (37, 33679), (40, 33688), (Start: 41 @33694 has 2 MA's), (42, 33709), (44, 33721), (Start: 48 @33775 has 568 MA's), (49, 33781), (Start: 50 @33787 has 4 MA's), (Start: 53 @33811 has 2 MA's), (55, 33823), (56, 33835), (60, 33856), (61, 33859), (71, 33937), (72, 33949), (94, 34141),

Gene: Reccee_33 Start: 34304, Stop: 34687, Start Num: 48
Candidate Starts for Reccee_33:
(Start: 48 @34304 has 568 MA's), (60, 34385), (75, 34496), (81, 34553), (87, 34610),

Gene: Red305_23 Start: 23494, Stop: 23877, Start Num: 48
Candidate Starts for Red305_23:
(Start: 48 @23494 has 568 MA's), (56, 23554), (63, 23590), (80, 23737), (84, 23788), (87, 23800), (96, 23857),

Gene: RedMaple_33 Start: 33567, Stop: 33956, Start Num: 48
Candidate Starts for RedMaple_33:

(Start: 48 @33567 has 568 MA's), (Start: 51 @33591 has 1 MA's), (Start: 52 @33594 has 1 MA's), (70, 33723), (75, 33759), (90, 33894),

Gene: RedRaider89_35 Start: 33787, Stop: 34176, Start Num: 48
Candidate Starts for RedRaider89_35:
(Start: 48 @33787 has 568 MA's), (Start: 51 @33811 has 1 MA's), (Start: 52 @33814 has 1 MA's), (70, 33943), (75, 33979), (90, 34114),

Gene: Redi_23 Start: 21267, Stop: 21647, Start Num: 48
Candidate Starts for Redi_23:
(1, 20715), (8, 20889), (14, 20943), (17, 20958), (23, 21003), (Start: 48 @21267 has 568 MA's), (57, 21327), (59, 21342), (61, 21348), (70, 21420), (77, 21462), (79, 21486), (81, 21513), (90, 21585),

Gene: Renkei_30 Start: 32780, Stop: 33172, Start Num: 48
Candidate Starts for Renkei_30:
(3, 32306), (7, 32393), (9, 32405), (15, 32462), (16, 32465), (25, 32540), (27, 32549), (28, 32555), (37, 32684), (40, 32693), (Start: 41 @32699 has 2 MA's), (42, 32714), (44, 32726), (Start: 48 @32780 has 568 MA's), (49, 32786), (Start: 50 @32792 has 4 MA's), (Start: 53 @32816 has 2 MA's), (55, 32828), (56, 32840), (60, 32861), (61, 32864), (71, 32942), (72, 32954), (94, 33146),

Gene: Reprobate_33 Start: 34396, Stop: 34785, Start Num: 48
Candidate Starts for Reprobate_33:
(5, 33955), (10, 34039), (20, 34123), (Start: 48 @34396 has 568 MA's), (55, 34444), (81, 34645), (87, 34708),

Gene: Rhinoforte_34 Start: 33998, Stop: 34387, Start Num: 48
Candidate Starts for Rhinoforte_34:
(Start: 48 @33998 has 568 MA's), (Start: 51 @34022 has 1 MA's), (Start: 52 @34025 has 1 MA's), (70, 34154), (75, 34190), (90, 34325),

Gene: Rich_32 Start: 33902, Stop: 34291, Start Num: 48
Candidate Starts for Rich_32:
(10, 33545), (Start: 48 @33902 has 568 MA's), (Start: 53 @33941 has 2 MA's), (55, 33953), (75, 34097), (81, 34154), (87, 34211),

Gene: Ricotta_33 Start: 33286, Stop: 33675, Start Num: 48
Candidate Starts for Ricotta_33:
(Start: 48 @33286 has 568 MA's), (Start: 51 @33310 has 1 MA's), (Start: 52 @33313 has 1 MA's), (70, 33442), (75, 33478), (90, 33613),

Gene: Riggan_34 Start: 33547, Stop: 33936, Start Num: 48
Candidate Starts for Riggan_34:
(Start: 48 @33547 has 568 MA's), (Start: 51 @33571 has 1 MA's), (Start: 52 @33574 has 1 MA's), (70, 33703), (75, 33739), (90, 33874),

Gene: Rimu_34 Start: 33296, Stop: 33685, Start Num: 48
Candidate Starts for Rimu_34:
(Start: 48 @33296 has 568 MA's), (Start: 51 @33320 has 1 MA's), (Start: 52 @33323 has 1 MA's), (70, 33452), (75, 33488), (90, 33623),

Gene: Rinkes_35 Start: 35022, Stop: 35408, Start Num: 48
Candidate Starts for Rinkes_35:

(Start: 48 @35022 has 568 MA's), (Start: 53 @35058 has 2 MA's), (56, 35085), (77, 35223), (87, 35331),

Gene: Rita130_33 Start: 34124, Stop: 34507, Start Num: 48
Candidate Starts for Rita130_33:
(5, 33683), (10, 33767), (Start: 48 @34124 has 568 MA's), (60, 34205), (75, 34316), (81, 34373), (87, 34430),

Gene: Rita1961_34 Start: 33435, Stop: 33818, Start Num: 48
Candidate Starts for Rita1961_34:
(Start: 48 @33435 has 568 MA's), (60, 33516), (75, 33627), (81, 33684), (87, 33741), (95, 33795),

Gene: Riverton_34 Start: 33568, Stop: 33957, Start Num: 48
Candidate Starts for Riverton_34:
(Start: 48 @33568 has 568 MA's), (Start: 51 @33592 has 1 MA's), (Start: 52 @33595 has 1 MA's), (70, 33724), (75, 33760), (90, 33895),

Gene: Robyn_33 Start: 33131, Stop: 33520, Start Num: 48
Candidate Starts for Robyn_33:
(Start: 48 @33131 has 568 MA's), (Start: 51 @33155 has 1 MA's), (Start: 52 @33158 has 1 MA's), (70, 33287), (75, 33323), (90, 33458),

Gene: Roliet_34 Start: 33556, Stop: 33945, Start Num: 48
Candidate Starts for Roliet_34:
(Start: 48 @33556 has 568 MA's), (Start: 51 @33580 has 1 MA's), (Start: 52 @33583 has 1 MA's), (70, 33712), (75, 33748), (90, 33883),

Gene: RomaT_34 Start: 34225, Stop: 34608, Start Num: 48
Candidate Starts for RomaT_34:
(Start: 48 @34225 has 568 MA's), (60, 34306), (61, 34309), (75, 34417), (81, 34474), (87, 34531), (95, 34585),

Gene: Roscoe_35 Start: 33794, Stop: 34183, Start Num: 48
Candidate Starts for Roscoe_35:
(Start: 48 @33794 has 568 MA's), (Start: 51 @33818 has 1 MA's), (Start: 52 @33821 has 1 MA's), (70, 33950), (75, 33986), (90, 34121),

Gene: Rose5_22 Start: 22873, Stop: 23256, Start Num: 48
Candidate Starts for Rose5_22:
(Start: 48 @22873 has 568 MA's), (Start: 53 @22909 has 2 MA's), (54, 22912), (63, 22969), (83, 23158), (97, 23239),

Gene: RoseMarie_34 Start: 30508, Stop: 30897, Start Num: 48
Candidate Starts for RoseMarie_34:
(Start: 48 @30508 has 568 MA's), (54, 30547), (56, 30568), (61, 30592), (62, 30598), (69, 30652), (76, 30703), (77, 30706), (98, 30886),

Gene: Rosebush_34 Start: 34005, Stop: 34394, Start Num: 48
Candidate Starts for Rosebush_34:
(Start: 48 @34005 has 568 MA's), (Start: 51 @34029 has 1 MA's), (Start: 52 @34032 has 1 MA's), (70, 34161), (75, 34197), (90, 34332),

Gene: Rossetti_23 Start: 21569, Stop: 21955, Start Num: 48

Candidate Starts for Rossetti_23:
(Start: 48 @21569 has 568 MA's), (79, 21794), (82, 21827), (85, 21869), (86, 21872), (89, 21890), (91, 21908), (94, 21929), (98, 21944),

Gene: Roy17_34 Start: 33260, Stop: 33649, Start Num: 48
Candidate Starts for Roy17_34:
(Start: 48 @33260 has 568 MA's), (Start: 51 @33284 has 1 MA's), (Start: 52 @33287 has 1 MA's), (70, 33416), (75, 33452), (90, 33587),

Gene: Rumpelstiltskin_23 Start: 21556, Stop: 21942, Start Num: 48
Candidate Starts for Rumpelstiltskin_23:
(Start: 48 @21556 has 568 MA's), (69, 21700), (79, 21781), (82, 21814), (85, 21856), (89, 21877), (91, 21895), (94, 21916), (98, 21931),

Gene: SDcharge11_34 Start: 33534, Stop: 33923, Start Num: 48
Candidate Starts for SDcharge11_34:
(Start: 48 @33534 has 568 MA's), (Start: 51 @33558 has 1 MA's), (Start: 52 @33561 has 1 MA's), (70, 33690), (75, 33726), (90, 33861),

Gene: Sabella_34 Start: 33882, Stop: 34271, Start Num: 48
Candidate Starts for Sabella_34:
(Start: 48 @33882 has 568 MA's), (Start: 51 @33906 has 1 MA's), (Start: 52 @33909 has 1 MA's), (70, 34038), (75, 34074), (90, 34209),

Gene: Saguaro_34 Start: 34801, Stop: 35184, Start Num: 48
Candidate Starts for Saguaro_34:
(Start: 48 @34801 has 568 MA's), (56, 34861), (65, 34924), (70, 34957), (71, 34963), (84, 35095), (85, 35098), (92, 35143),

Gene: Salazzle_34 Start: 33136, Stop: 33525, Start Num: 48
Candidate Starts for Salazzle_34:
(Start: 48 @33136 has 568 MA's), (Start: 51 @33160 has 1 MA's), (Start: 52 @33163 has 1 MA's), (70, 33292), (75, 33328), (90, 33463),

Gene: SallyH_34 Start: 33570, Stop: 33959, Start Num: 48
Candidate Starts for SallyH_34:
(Start: 48 @33570 has 568 MA's), (Start: 51 @33594 has 1 MA's), (Start: 52 @33597 has 1 MA's), (70, 33726), (75, 33762), (90, 33897),

Gene: Samaymay_34 Start: 33560, Stop: 33949, Start Num: 48
Candidate Starts for Samaymay_34:
(Start: 48 @33560 has 568 MA's), (Start: 51 @33584 has 1 MA's), (Start: 52 @33587 has 1 MA's), (70, 33716), (75, 33752), (90, 33887),

Gene: Samty_23 Start: 23497, Stop: 23880, Start Num: 48
Candidate Starts for Samty_23:
(Start: 48 @23497 has 568 MA's), (56, 23557), (80, 23740), (84, 23791), (87, 23803), (96, 23860),

Gene: Sarma624_22 Start: 21480, Stop: 21863, Start Num: 48
Candidate Starts for Sarma624_22:
(8, 21102), (10, 21123), (14, 21156), (17, 21171), (23, 21216), (Start: 48 @21480 has 568 MA's), (61, 21564), (70, 21636), (77, 21678), (79, 21702), (81, 21729), (90, 21801),

Gene: Sarshaun_23 Start: 21583, Stop: 21969, Start Num: 48
Candidate Starts for Sarshaun_23:
(Start: 48 @21583 has 568 MA's), (69, 21727), (79, 21808), (82, 21841), (85, 21883), (89, 21904), (91, 21922), (94, 21943),

Gene: SassyCat97_33 Start: 33266, Stop: 33655, Start Num: 48
Candidate Starts for SassyCat97_33:
(Start: 48 @33266 has 568 MA's), (Start: 51 @33290 has 1 MA's), (Start: 52 @33293 has 1 MA's), (70, 33422), (75, 33458), (83, 33557), (90, 33593),

Gene: Schadenfreude_33 Start: 33117, Stop: 33506, Start Num: 48
Candidate Starts for Schadenfreude_33:
(Start: 48 @33117 has 568 MA's), (Start: 51 @33141 has 1 MA's), (Start: 52 @33144 has 1 MA's), (70, 33273), (75, 33309), (90, 33444),

Gene: Schueller_33 Start: 33282, Stop: 33671, Start Num: 48
Candidate Starts for Schueller_33:
(Start: 48 @33282 has 568 MA's), (Start: 51 @33306 has 1 MA's), (Start: 52 @33309 has 1 MA's), (70, 33438), (75, 33474), (90, 33609),

Gene: Scoot17C_34 Start: 33559, Stop: 33948, Start Num: 48
Candidate Starts for Scoot17C_34:
(Start: 48 @33559 has 568 MA's), (Start: 51 @33583 has 1 MA's), (Start: 52 @33586 has 1 MA's), (70, 33715), (75, 33751), (83, 33850), (90, 33886),

Gene: Scrick_34 Start: 33284, Stop: 33673, Start Num: 48
Candidate Starts for Scrick_34:
(Start: 48 @33284 has 568 MA's), (Start: 51 @33308 has 1 MA's), (Start: 52 @33311 has 1 MA's), (70, 33440), (75, 33476), (90, 33611),

Gene: Sejanus_29 Start: 30875, Stop: 31264, Start Num: 48
Candidate Starts for Sejanus_29:
(Start: 48 @30875 has 568 MA's), (56, 30935), (60, 30956), (74, 31064), (75, 31067), (90, 31202),

Gene: Selr12_34 Start: 33287, Stop: 33676, Start Num: 48
Candidate Starts for Selr12_34:
(Start: 48 @33287 has 568 MA's), (Start: 51 @33311 has 1 MA's), (Start: 52 @33314 has 1 MA's), (70, 33443), (75, 33479), (90, 33614),

Gene: Septica_33 Start: 33570, Stop: 33959, Start Num: 48
Candidate Starts for Septica_33:
(Start: 48 @33570 has 568 MA's), (Start: 51 @33594 has 1 MA's), (Start: 52 @33597 has 1 MA's), (70, 33726), (75, 33762), (90, 33897),

Gene: Serendipitous_32 Start: 33975, Stop: 34358, Start Num: 48
Candidate Starts for Serendipitous_32:
(5, 33534), (10, 33618), (20, 33702), (Start: 48 @33975 has 568 MA's), (55, 34023), (60, 34056), (75, 34167), (81, 34224),

Gene: Serendipity_34 Start: 33584, Stop: 33973, Start Num: 48
Candidate Starts for Serendipity_34:
(Start: 48 @33584 has 568 MA's), (Start: 51 @33608 has 1 MA's), (Start: 52 @33611 has 1 MA's), (70, 33740), (75, 33776), (90, 33911),

Gene: Serpentine_0034 Start: 33565, Stop: 33954, Start Num: 48
Candidate Starts for Serpentine_0034:
(Start: 48 @33565 has 568 MA's), (Start: 51 @33589 has 1 MA's), (Start: 52 @33592 has 1 MA's), (70, 33721), (75, 33757), (90, 33892),

Gene: ShadowBud_34 Start: 33585, Stop: 33974, Start Num: 48
Candidate Starts for ShadowBud_34:
(Start: 48 @33585 has 568 MA's), (Start: 51 @33609 has 1 MA's), (Start: 52 @33612 has 1 MA's), (70, 33741), (75, 33777), (90, 33912),

Gene: Sheila_34 Start: 33602, Stop: 33991, Start Num: 48
Candidate Starts for Sheila_34:
(Start: 48 @33602 has 568 MA's), (Start: 51 @33626 has 1 MA's), (Start: 52 @33629 has 1 MA's), (70, 33758), (75, 33794), (90, 33929),

Gene: Shenandoah_34 Start: 33424, Stop: 33807, Start Num: 48
Candidate Starts for Shenandoah_34:
(Start: 48 @33424 has 568 MA's), (60, 33505), (61, 33508), (75, 33616), (81, 33673), (87, 33730), (95, 33784),

Gene: Sheng711_22 Start: 22602, Stop: 22985, Start Num: 48
Candidate Starts for Sheng711_22:
(Start: 48 @22602 has 568 MA's), (68, 22743), (71, 22764), (83, 22887),

Gene: Shenyu_33 Start: 34079, Stop: 34468, Start Num: 48
Candidate Starts for Shenyu_33:
(5, 33638), (10, 33722), (20, 33806), (Start: 48 @34079 has 568 MA's), (55, 34127), (75, 34271), (81, 34328),

Gene: ShiVal_34 Start: 33558, Stop: 33947, Start Num: 48
Candidate Starts for ShiVal_34:
(Start: 48 @33558 has 568 MA's), (Start: 51 @33582 has 1 MA's), (Start: 52 @33585 has 1 MA's), (70, 33714), (75, 33750), (90, 33885),

Gene: ShrimpFriedEgg_23 Start: 21267, Stop: 21647, Start Num: 48
Candidate Starts for ShrimpFriedEgg_23:
(1, 20715), (8, 20889), (14, 20943), (17, 20958), (23, 21003), (Start: 48 @21267 has 568 MA's), (57, 21327), (59, 21342), (61, 21348), (70, 21420), (77, 21462), (79, 21486), (81, 21513), (90, 21585),

Gene: Sigman_34 Start: 33550, Stop: 33939, Start Num: 48
Candidate Starts for Sigman_34:
(Start: 48 @33550 has 568 MA's), (Start: 51 @33574 has 1 MA's), (Start: 52 @33577 has 1 MA's), (70, 33706), (75, 33742), (90, 33877),

Gene: SilverBell_34 Start: 33580, Stop: 33969, Start Num: 48
Candidate Starts for SilverBell_34:
(Start: 48 @33580 has 568 MA's), (Start: 51 @33604 has 1 MA's), (Start: 52 @33607 has 1 MA's), (70, 33736), (75, 33772), (90, 33907),

Gene: Silverleaf_22 Start: 22873, Stop: 23256, Start Num: 48
Candidate Starts for Silverleaf_22:

(Start: 48 @22873 has 568 MA's), (Start: 53 @22909 has 2 MA's), (54, 22912), (63, 22969), (83, 23158), (97, 23239),

Gene: Simielle_33 Start: 33253, Stop: 33642, Start Num: 48
Candidate Starts for Simielle_33:
(Start: 48 @33253 has 568 MA's), (Start: 51 @33277 has 1 MA's), (Start: 52 @33280 has 1 MA's), (70, 33409), (75, 33445), (90, 33580),

Gene: SirBeauregard_34 Start: 33257, Stop: 33646, Start Num: 48
Candidate Starts for SirBeauregard_34:
(Start: 48 @33257 has 568 MA's), (Start: 51 @33281 has 1 MA's), (Start: 52 @33284 has 1 MA's), (70, 33413), (75, 33449), (90, 33584),

Gene: SirJeffery_33 Start: 34123, Stop: 34506, Start Num: 48
Candidate Starts for SirJeffery_33:
(5, 33682), (10, 33766), (Start: 48 @34123 has 568 MA's), (60, 34204), (75, 34315), (81, 34372), (87, 34429),

Gene: Skippy_34 Start: 33548, Stop: 33937, Start Num: 48
Candidate Starts for Skippy_34:
(Start: 48 @33548 has 568 MA's), (Start: 51 @33572 has 1 MA's), (Start: 52 @33575 has 1 MA's), (70, 33704), (75, 33740), (90, 33875),

Gene: Slatt_34 Start: 33574, Stop: 33963, Start Num: 48
Candidate Starts for Slatt_34:
(Start: 48 @33574 has 568 MA's), (Start: 51 @33598 has 1 MA's), (Start: 52 @33601 has 1 MA's), (70, 33730), (75, 33766), (90, 33901),

Gene: SlippinJimmy_34 Start: 34217, Stop: 34600, Start Num: 48
Candidate Starts for SlippinJimmy_34:
(Start: 48 @34217 has 568 MA's), (55, 34265), (62, 34307), (81, 34466), (87, 34523),

Gene: Snekmaggedon_23 Start: 21267, Stop: 21647, Start Num: 48
Candidate Starts for Snekmaggedon_23:
(1, 20715), (8, 20889), (14, 20943), (17, 20958), (23, 21003), (Start: 48 @21267 has 568 MA's), (61, 21348), (70, 21420), (77, 21462), (79, 21486), (81, 21513), (90, 21585),

Gene: Snenia_23 Start: 23495, Stop: 23878, Start Num: 48
Candidate Starts for Snenia_23:
(Start: 48 @23495 has 568 MA's), (56, 23555), (63, 23591), (80, 23738), (84, 23789), (87, 23801), (96, 23858),

Gene: SoJulia_24 Start: 21549, Stop: 21935, Start Num: 48
Candidate Starts for SoJulia_24:
(Start: 48 @21549 has 568 MA's), (69, 21693), (79, 21774), (82, 21807), (85, 21849), (89, 21870), (91, 21888), (94, 21909),

Gene: Soap141_23 Start: 21583, Stop: 21969, Start Num: 48
Candidate Starts for Soap141_23:
(Start: 48 @21583 has 568 MA's), (69, 21727), (79, 21808), (82, 21841), (85, 21883), (89, 21904), (91, 21922), (94, 21943),

Gene: Soile_34 Start: 33280, Stop: 33669, Start Num: 48

Candidate Starts for Soile_34:
(Start: 48 @33280 has 568 MA's), (Start: 51 @33304 has 1 MA's), (Start: 52 @33307 has 1 MA's), (70, 33436), (75, 33472), (90, 33607),

Gene: Solosis_33 Start: 33275, Stop: 33664, Start Num: 48
Candidate Starts for Solosis_33:
(Start: 48 @33275 has 568 MA's), (Start: 51 @33299 has 1 MA's), (Start: 52 @33302 has 1 MA's), (70, 33431), (75, 33467), (90, 33602),

Gene: Sophia_33 Start: 33275, Stop: 33664, Start Num: 48
Candidate Starts for Sophia_33:
(Start: 48 @33275 has 568 MA's), (Start: 51 @33299 has 1 MA's), (Start: 52 @33302 has 1 MA's), (70, 33431), (75, 33467), (90, 33602),

Gene: SororFago_33 Start: 25419, Stop: 25811, Start Num: 48
Candidate Starts for SororFago_33:
(30, 25281), (34, 25308), (37, 25323), (43, 25356), (Start: 48 @25419 has 568 MA's), (Start: 50 @25431 has 4 MA's), (67, 25560), (77, 25623),

Gene: Soto_34 Start: 33568, Stop: 33957, Start Num: 48
Candidate Starts for Soto_34:
(Start: 48 @33568 has 568 MA's), (Start: 51 @33592 has 1 MA's), (Start: 52 @33595 has 1 MA's), (70, 33724), (75, 33760), (90, 33895),

Gene: Spartan300_34 Start: 33554, Stop: 33943, Start Num: 48
Candidate Starts for Spartan300_34:
(Start: 48 @33554 has 568 MA's), (Start: 51 @33578 has 1 MA's), (Start: 52 @33581 has 1 MA's), (70, 33710), (75, 33746), (90, 33881),

Gene: Spinach_23 Start: 21267, Stop: 21647, Start Num: 48
Candidate Starts for Spinach_23:
(1, 20715), (8, 20889), (14, 20943), (17, 20958), (23, 21003), (Start: 48 @21267 has 568 MA's), (57, 21327), (59, 21342), (61, 21348), (70, 21420), (77, 21462), (79, 21486), (81, 21513), (90, 21585),

Gene: SpongeBob_23 Start: 21267, Stop: 21647, Start Num: 48
Candidate Starts for SpongeBob_23:
(1, 20715), (8, 20889), (14, 20943), (17, 20958), (23, 21003), (Start: 48 @21267 has 568 MA's), (61, 21348), (70, 21420), (77, 21462), (79, 21486), (81, 21513), (90, 21585),

Gene: Squid_34 Start: 33266, Stop: 33655, Start Num: 48
Candidate Starts for Squid_34:
(Start: 48 @33266 has 568 MA's), (Start: 51 @33290 has 1 MA's), (Start: 52 @33293 has 1 MA's), (70, 33422), (75, 33458), (83, 33557), (90, 33593),

Gene: Squiggle_34 Start: 33278, Stop: 33667, Start Num: 48
Candidate Starts for Squiggle_34:
(Start: 48 @33278 has 568 MA's), (Start: 51 @33302 has 1 MA's), (Start: 52 @33305 has 1 MA's), (70, 33434), (75, 33470), (90, 33605),

Gene: Squirty_22 Start: 21315, Stop: 21695, Start Num: 48
Candidate Starts for Squirty_22:
(12, 20985), (13, 20988), (14, 20991), (20, 21042), (22, 21048), (Start: 48 @21315 has 568 MA's), (57, 21375), (70, 21468), (81, 21561), (90, 21633),

Gene: Stargaze_24 Start: 24460, Stop: 24849, Start Num: 48
Candidate Starts for Stargaze_24:
(Start: 48 @24460 has 568 MA's), (Start: 52 @24487 has 1 MA's), (71, 24622), (88, 24775), (93, 24817), (98, 24838),

Gene: Stinger_29 Start: 32350, Stop: 32742, Start Num: 48
Candidate Starts for Stinger_29:
(27, 32119), (29, 32131), (37, 32254), (40, 32263), (44, 32296), (Start: 48 @32350 has 568 MA's), (49, 32356), (Start: 50 @32362 has 4 MA's), (Start: 51 @32374 has 1 MA's), (Start: 53 @32386 has 2 MA's), (55, 32398), (56, 32410), (60, 32431), (71, 32512), (72, 32524),

Gene: StinkyVeggy_35 Start: 34269, Stop: 34658, Start Num: 48
Candidate Starts for StinkyVeggy_35:
(5, 33828), (10, 33912), (20, 33996), (Start: 48 @34269 has 568 MA's), (55, 34317), (75, 34461), (81, 34518),

Gene: Struggle_33 Start: 33116, Stop: 33505, Start Num: 48
Candidate Starts for Struggle_33:
(Start: 48 @33116 has 568 MA's), (Start: 51 @33140 has 1 MA's), (Start: 52 @33143 has 1 MA's), (70, 33272), (75, 33308), (90, 33443),

Gene: Stuck_23 Start: 22992, Stop: 23375, Start Num: 48
Candidate Starts for Stuck_23:
(Start: 48 @22992 has 568 MA's), (61, 23076), (70, 23148), (77, 23190), (79, 23214), (90, 23313),

Gene: Suffolk_34 Start: 33565, Stop: 33954, Start Num: 48
Candidate Starts for Suffolk_34:
(Start: 48 @33565 has 568 MA's), (Start: 51 @33589 has 1 MA's), (Start: 52 @33592 has 1 MA's), (70, 33721), (75, 33757), (90, 33892),

Gene: Suigeneris_33 Start: 34126, Stop: 34509, Start Num: 48
Candidate Starts for Suigeneris_33:
(5, 33685), (10, 33769), (Start: 48 @34126 has 568 MA's), (60, 34207), (75, 34318), (81, 34375), (87, 34432),

Gene: Surely_34 Start: 33568, Stop: 33957, Start Num: 48
Candidate Starts for Surely_34:
(Start: 48 @33568 has 568 MA's), (Start: 51 @33592 has 1 MA's), (Start: 52 @33595 has 1 MA's), (70, 33724), (75, 33760), (83, 33859), (90, 33895),

Gene: SwainyDoc_34 Start: 33446, Stop: 33829, Start Num: 48
Candidate Starts for SwainyDoc_34:
(Start: 48 @33446 has 568 MA's), (60, 33527), (75, 33638), (81, 33695), (87, 33752), (95, 33806),

Gene: Swiphy_34 Start: 33563, Stop: 33952, Start Num: 48
Candidate Starts for Swiphy_34:
(Start: 48 @33563 has 568 MA's), (Start: 51 @33587 has 1 MA's), (Start: 52 @33590 has 1 MA's), (70, 33719), (75, 33755), (90, 33890),

Gene: Swish_34 Start: 33551, Stop: 33940, Start Num: 48
Candidate Starts for Swish_34:

(Start: 48 @33551 has 568 MA's), (Start: 51 @33575 has 1 MA's), (Start: 52 @33578 has 1 MA's), (70, 33707), (75, 33743), (90, 33878),

Gene: SynergyX_34 Start: 33452, Stop: 33835, Start Num: 48
Candidate Starts for SynergyX_34:
(Start: 48 @33452 has 568 MA's), (60, 33533), (61, 33536), (75, 33644), (81, 33701), (87, 33758), (95, 33812),

Gene: TA17A_35 Start: 33872, Stop: 34261, Start Num: 48
Candidate Starts for TA17A_35:
(Start: 48 @33872 has 568 MA's), (Start: 51 @33896 has 1 MA's), (Start: 52 @33899 has 1 MA's), (70, 34028), (75, 34064), (90, 34199),

Gene: TallGrassMM_34 Start: 33190, Stop: 33579, Start Num: 48
Candidate Starts for TallGrassMM_34:
(Start: 48 @33190 has 568 MA's), (Start: 51 @33214 has 1 MA's), (Start: 52 @33217 has 1 MA's), (70, 33346), (75, 33382), (90, 33517),

Gene: Taptic_26 Start: 30559, Stop: 30939, Start Num: 48
Candidate Starts for Taptic_26:
(Start: 48 @30559 has 568 MA's), (60, 30637), (61, 30640), (75, 30748), (81, 30805), (87, 30862), (95, 30916),

Gene: Taraxa_33 Start: 32766, Stop: 33155, Start Num: 48
Candidate Starts for Taraxa_33:
(Start: 48 @32766 has 568 MA's), (Start: 51 @32790 has 1 MA's), (Start: 52 @32793 has 1 MA's), (70, 32922), (75, 32958), (90, 33093),

Gene: Telesworld_33 Start: 33263, Stop: 33652, Start Num: 48
Candidate Starts for Telesworld_33:
(Start: 48 @33263 has 568 MA's), (Start: 51 @33287 has 1 MA's), (Start: 52 @33290 has 1 MA's), (70, 33419), (75, 33455), (90, 33590),

Gene: Thonko_32 Start: 31101, Stop: 31490, Start Num: 48
Candidate Starts for Thonko_32:
(Start: 48 @31101 has 568 MA's), (58, 31170), (65, 31224), (70, 31257), (92, 31449),

Gene: Thora_34 Start: 33567, Stop: 33956, Start Num: 48
Candidate Starts for Thora_34:
(Start: 48 @33567 has 568 MA's), (Start: 51 @33591 has 1 MA's), (Start: 52 @33594 has 1 MA's), (70, 33723), (75, 33759), (90, 33894),

Gene: ThreeOh3D2_34 Start: 33565, Stop: 33954, Start Num: 48
Candidate Starts for ThreeOh3D2_34:
(Start: 48 @33565 has 568 MA's), (Start: 51 @33589 has 1 MA's), (Start: 52 @33592 has 1 MA's), (70, 33721), (75, 33757), (83, 33856), (90, 33892),

Gene: Thunderbird_33 Start: 33271, Stop: 33660, Start Num: 48
Candidate Starts for Thunderbird_33:
(Start: 48 @33271 has 568 MA's), (Start: 51 @33295 has 1 MA's), (Start: 52 @33298 has 1 MA's), (70, 33427), (75, 33463), (90, 33598),

Gene: Timmi_33 Start: 33276, Stop: 33665, Start Num: 48

Candidate Starts for Timmi_33:
(Start: 48 @33276 has 568 MA's), (Start: 51 @33300 has 1 MA's), (Start: 52 @33303 has 1 MA's), (70, 33432), (75, 33468), (90, 33603),

Gene: Tinciduntsolum_35 Start: 34010, Stop: 34399, Start Num: 48
Candidate Starts for Tinciduntsolum_35:
(Start: 48 @34010 has 568 MA's), (Start: 51 @34034 has 1 MA's), (Start: 52 @34037 has 1 MA's), (70, 34166), (75, 34202), (90, 34337),

Gene: TinyTerror_34 Start: 33437, Stop: 33820, Start Num: 48
Candidate Starts for TinyTerror_34:
(Start: 48 @33437 has 568 MA's), (60, 33518), (61, 33521), (75, 33629), (81, 33686), (87, 33743), (95, 33797),

Gene: TomBombadil_34 Start: 33561, Stop: 33950, Start Num: 48
Candidate Starts for TomBombadil_34:
(Start: 48 @33561 has 568 MA's), (Start: 51 @33585 has 1 MA's), (Start: 52 @33588 has 1 MA's), (70, 33717), (75, 33753), (90, 33888),

Gene: Tomlarah_34 Start: 33552, Stop: 33941, Start Num: 48
Candidate Starts for Tomlarah_34:
(Start: 48 @33552 has 568 MA's), (Start: 51 @33576 has 1 MA's), (Start: 52 @33579 has 1 MA's), (70, 33708), (75, 33744), (90, 33879),

Gene: Toni_33 Start: 33268, Stop: 33657, Start Num: 48
Candidate Starts for Toni_33:
(Start: 48 @33268 has 568 MA's), (Start: 51 @33292 has 1 MA's), (Start: 52 @33295 has 1 MA's), (70, 33424), (75, 33460), (90, 33595),

Gene: TooFast2Furius_35 Start: 33797, Stop: 34186, Start Num: 48
Candidate Starts for TooFast2Furius_35:
(Start: 48 @33797 has 568 MA's), (Start: 51 @33821 has 1 MA's), (Start: 52 @33824 has 1 MA's), (70, 33953), (75, 33989), (90, 34124),

Gene: Tooj_34 Start: 33625, Stop: 34014, Start Num: 48
Candidate Starts for Tooj_34:
(Start: 48 @33625 has 568 MA's), (Start: 51 @33649 has 1 MA's), (Start: 52 @33652 has 1 MA's), (70, 33781), (75, 33817), (83, 33916), (90, 33952),

Gene: Tourach_23 Start: 21548, Stop: 21934, Start Num: 48
Candidate Starts for Tourach_23:
(Start: 48 @21548 has 568 MA's), (69, 21692), (79, 21773), (82, 21806), (85, 21848), (89, 21869), (91, 21887), (98, 21923),

Gene: Tres_34 Start: 33885, Stop: 34274, Start Num: 48
Candidate Starts for Tres_34:
(Start: 48 @33885 has 568 MA's), (Start: 51 @33909 has 1 MA's), (Start: 52 @33912 has 1 MA's), (70, 34041), (75, 34077), (90, 34212),

Gene: TriFive_23 Start: 23494, Stop: 23877, Start Num: 48
Candidate Starts for TriFive_23:
(Start: 48 @23494 has 568 MA's), (56, 23554), (63, 23590), (80, 23737), (84, 23788), (87, 23800), (96, 23857),

Gene: Triad_34 Start: 32429, Stop: 32818, Start Num: 48
Candidate Starts for Triad_34:
(Start: 48 @32429 has 568 MA's), (Start: 51 @32453 has 1 MA's), (Start: 52 @32456 has 1 MA's), (70, 32585), (75, 32621), (90, 32756),

Gene: True_33 Start: 33265, Stop: 33654, Start Num: 48
Candidate Starts for True_33:
(Start: 48 @33265 has 568 MA's), (Start: 51 @33289 has 1 MA's), (Start: 52 @33292 has 1 MA's), (70, 33421), (75, 33457), (90, 33592),

Gene: Trypo_34 Start: 33561, Stop: 33950, Start Num: 48
Candidate Starts for Trypo_34:
(Start: 48 @33561 has 568 MA's), (Start: 51 @33585 has 1 MA's), (Start: 52 @33588 has 1 MA's), (70, 33717), (75, 33753), (90, 33888),

Gene: Tydolla_34 Start: 34186, Stop: 34569, Start Num: 48
Candidate Starts for Tydolla_34:
(Start: 48 @34186 has 568 MA's), (60, 34267), (61, 34270), (75, 34378), (81, 34435), (87, 34492), (95, 34546),

Gene: TyrionL_33 Start: 33124, Stop: 33513, Start Num: 48
Candidate Starts for TyrionL_33:
(Start: 48 @33124 has 568 MA's), (Start: 51 @33148 has 1 MA's), (Start: 52 @33151 has 1 MA's), (70, 33280), (75, 33316), (90, 33451),

Gene: Tyson_22 Start: 22873, Stop: 23256, Start Num: 48
Candidate Starts for Tyson_22:
(Start: 48 @22873 has 568 MA's), (Start: 53 @22909 has 2 MA's), (54, 22912), (63, 22969), (83, 23158), (97, 23239),

Gene: UAch1_34 Start: 33574, Stop: 33963, Start Num: 48
Candidate Starts for UAch1_34:
(Start: 48 @33574 has 568 MA's), (Start: 51 @33598 has 1 MA's), (Start: 52 @33601 has 1 MA's), (70, 33730), (75, 33766), (90, 33901),

Gene: UPIE_22 Start: 22907, Stop: 23254, Start Num: 53
Candidate Starts for UPIE_22:
(Start: 48 @22871 has 568 MA's), (Start: 53 @22907 has 2 MA's), (54, 22910), (63, 22967), (83, 23156), (97, 23237),

Gene: UncleHowie_34 Start: 33264, Stop: 33653, Start Num: 48
Candidate Starts for UncleHowie_34:
(Start: 48 @33264 has 568 MA's), (Start: 51 @33288 has 1 MA's), (Start: 52 @33291 has 1 MA's), (70, 33420), (75, 33456), (90, 33591),

Gene: Underpass_23 Start: 21555, Stop: 21941, Start Num: 48
Candidate Starts for Underpass_23:
(Start: 48 @21555 has 568 MA's), (79, 21780), (82, 21813), (85, 21855), (86, 21858), (89, 21876), (91, 21894), (98, 21930),

Gene: Usavi_34 Start: 33565, Stop: 33954, Start Num: 48
Candidate Starts for Usavi_34:

(Start: 48 @33565 has 568 MA's), (Start: 51 @33589 has 1 MA's), (Start: 52 @33592 has 1 MA's), (70, 33721), (75, 33757), (90, 33892),

Gene: Vaishali24_33 Start: 33226, Stop: 33615, Start Num: 48
Candidate Starts for Vaishali24_33:
(Start: 48 @33226 has 568 MA's), (Start: 51 @33250 has 1 MA's), (Start: 52 @33253 has 1 MA's), (70, 33382), (75, 33418), (90, 33553),

Gene: Valjean_34 Start: 33557, Stop: 33946, Start Num: 48
Candidate Starts for Valjean_34:
(Start: 48 @33557 has 568 MA's), (Start: 51 @33581 has 1 MA's), (Start: 52 @33584 has 1 MA's), (70, 33713), (75, 33749), (90, 33884),

Gene: Vanisoa_32 Start: 25871, Stop: 26254, Start Num: 48
Candidate Starts for Vanisoa_32:
(6, 25433), (42, 25805), (45, 25826), (46, 25832), (Start: 48 @25871 has 568 MA's), (56, 25931), (81, 26120), (84, 26165),

Gene: Vaticameos_34 Start: 33255, Stop: 33644, Start Num: 48
Candidate Starts for Vaticameos_34:
(Start: 48 @33255 has 568 MA's), (Start: 51 @33279 has 1 MA's), (Start: 52 @33282 has 1 MA's), (70, 33411), (75, 33447), (90, 33582),

Gene: Vectra_33 Start: 33127, Stop: 33516, Start Num: 48
Candidate Starts for Vectra_33:
(Start: 48 @33127 has 568 MA's), (Start: 51 @33151 has 1 MA's), (Start: 52 @33154 has 1 MA's), (70, 33283), (75, 33319), (90, 33454),

Gene: Velveteen_22 Start: 21480, Stop: 21863, Start Num: 48
Candidate Starts for Velveteen_22:
(8, 21102), (10, 21123), (14, 21156), (17, 21171), (23, 21216), (Start: 48 @21480 has 568 MA's), (61, 21564), (70, 21636), (77, 21678), (79, 21702), (81, 21729), (90, 21801),

Gene: Veritas_33 Start: 33127, Stop: 33516, Start Num: 48
Candidate Starts for Veritas_33:
(Start: 48 @33127 has 568 MA's), (Start: 51 @33151 has 1 MA's), (Start: 52 @33154 has 1 MA's), (70, 33283), (75, 33319), (90, 33454),

Gene: Vetrix_23 Start: 21556, Stop: 21942, Start Num: 48
Candidate Starts for Vetrix_23:
(Start: 48 @21556 has 568 MA's), (69, 21700), (79, 21781), (82, 21814), (85, 21856), (89, 21877), (91, 21895), (94, 21916),

Gene: Vic9_00034 Start: 34364, Stop: 34744, Start Num: 48
Candidate Starts for Vic9_00034:
(Start: 48 @34364 has 568 MA's), (60, 34442), (61, 34445), (75, 34553), (81, 34610), (87, 34667), (95, 34721),

Gene: Vincenzo_32 Start: 34494, Stop: 34886, Start Num: 48
Candidate Starts for Vincenzo_32:
(16, 34179), (27, 34263), (28, 34269), (29, 34275), (37, 34398), (40, 34407), (44, 34440), (Start: 48 @34494 has 568 MA's), (49, 34500), (Start: 50 @34506 has 4 MA's), (Start: 51 @34518 has 1 MA's), (Start: 53 @34530 has 2 MA's), (55, 34542), (56, 34554), (60, 34575), (61, 34578), (71, 34656), (72,

34668), (83, 34788), (94, 34860),

Gene: VioletZ_31 Start: 33846, Stop: 34238, Start Num: 48
Candidate Starts for VioletZ_31:
(16, 33531), (25, 33606), (28, 33621), (32, 33726), (37, 33750), (40, 33759), (Start: 41 @33765 has 2 MA's), (Start: 48 @33846 has 568 MA's), (49, 33852), (Start: 50 @33858 has 4 MA's), (Start: 53 @33882 has 2 MA's), (55, 33894), (56, 33906), (60, 33927), (61, 33930), (71, 34008), (72, 34020), (94, 34212),

Gene: Virapocalypse_34 Start: 33552, Stop: 33941, Start Num: 48
Candidate Starts for Virapocalypse_34:
(Start: 48 @33552 has 568 MA's), (Start: 51 @33576 has 1 MA's), (Start: 52 @33579 has 1 MA's), (70, 33708), (75, 33744), (90, 33879),

Gene: Virgeve_33 Start: 33332, Stop: 33721, Start Num: 48
Candidate Starts for Virgeve_33:
(Start: 48 @33332 has 568 MA's), (Start: 51 @33356 has 1 MA's), (Start: 52 @33359 has 1 MA's), (70, 33488), (75, 33524), (90, 33659),

Gene: Vista_34 Start: 33565, Stop: 33954, Start Num: 48
Candidate Starts for Vista_34:
(Start: 48 @33565 has 568 MA's), (Start: 51 @33589 has 1 MA's), (Start: 52 @33592 has 1 MA's), (70, 33721), (75, 33757), (90, 33892),

Gene: Vivaldi_34 Start: 33594, Stop: 33983, Start Num: 48
Candidate Starts for Vivaldi_34:
(Start: 48 @33594 has 568 MA's), (Start: 51 @33618 has 1 MA's), (Start: 52 @33621 has 1 MA's), (70, 33750), (75, 33786), (90, 33921),

Gene: Vortex_34 Start: 33271, Stop: 33660, Start Num: 48
Candidate Starts for Vortex_34:
(Start: 48 @33271 has 568 MA's), (Start: 51 @33295 has 1 MA's), (Start: 52 @33298 has 1 MA's), (70, 33427), (75, 33463), (90, 33598),

Gene: Waleliano_31 Start: 33773, Stop: 34165, Start Num: 48
Candidate Starts for Waleliano_31:
(16, 33458), (24, 33521), (25, 33533), (27, 33542), (29, 33554), (32, 33653), (37, 33677), (40, 33686), (44, 33719), (Start: 48 @33773 has 568 MA's), (49, 33779), (Start: 50 @33785 has 4 MA's), (Start: 53 @33809 has 2 MA's), (55, 33821), (56, 33833), (60, 33854), (61, 33857), (71, 33935), (72, 33947), (94, 34139),

Gene: Wallhey_33 Start: 33128, Stop: 33517, Start Num: 48
Candidate Starts for Wallhey_33:
(Start: 48 @33128 has 568 MA's), (Start: 51 @33152 has 1 MA's), (Start: 52 @33155 has 1 MA's), (70, 33284), (75, 33320), (90, 33455),

Gene: Wamburgrxpress_22 Start: 22886, Stop: 23269, Start Num: 48
Candidate Starts for Wamburgrxpress_22:
(Start: 48 @22886 has 568 MA's), (Start: 53 @22922 has 2 MA's), (54, 22925), (63, 22982), (83, 23171), (97, 23252),

Gene: Waterdiva_34 Start: 33557, Stop: 33946, Start Num: 48
Candidate Starts for Waterdiva_34:

(Start: 48 @33557 has 568 MA's), (Start: 51 @33581 has 1 MA's), (Start: 52 @33584 has 1 MA's), (70, 33713), (75, 33749), (83, 33848), (90, 33884),

Gene: Weher20_34 Start: 33556, Stop: 33945, Start Num: 48
Candidate Starts for Weher20_34:
(Start: 48 @33556 has 568 MA's), (Start: 51 @33580 has 1 MA's), (Start: 52 @33583 has 1 MA's), (70, 33712), (75, 33748), (90, 33883),

Gene: West99_34 Start: 34005, Stop: 34394, Start Num: 48
Candidate Starts for West99_34:
(Start: 48 @34005 has 568 MA's), (Start: 51 @34029 has 1 MA's), (Start: 52 @34032 has 1 MA's), (70, 34161), (75, 34197), (90, 34332),

Gene: Whirlwind_24 Start: 23231, Stop: 23614, Start Num: 48
Candidate Starts for Whirlwind_24:
(Start: 48 @23231 has 568 MA's), (56, 23291), (80, 23474), (84, 23525), (96, 23594),

Gene: Wigglewiggle_23 Start: 21582, Stop: 21968, Start Num: 48
Candidate Starts for Wigglewiggle_23:
(Start: 48 @21582 has 568 MA's), (69, 21726), (79, 21807), (82, 21840), (85, 21882), (89, 21903), (91, 21921), (94, 21942),

Gene: Wilder_23 Start: 21555, Stop: 21941, Start Num: 48
Candidate Starts for Wilder_23:
(Start: 48 @21555 has 568 MA's), (69, 21699), (79, 21780), (82, 21813), (85, 21855), (89, 21876), (91, 21894), (94, 21915),

Gene: Windsor_33 Start: 33261, Stop: 33650, Start Num: 48
Candidate Starts for Windsor_33:
(Start: 48 @33261 has 568 MA's), (Start: 51 @33285 has 1 MA's), (Start: 52 @33288 has 1 MA's), (70, 33417), (75, 33453), (90, 33588),

Gene: Winky_23 Start: 21550, Stop: 21936, Start Num: 48
Candidate Starts for Winky_23:
(Start: 48 @21550 has 568 MA's), (69, 21694), (79, 21775), (82, 21808), (85, 21850), (89, 21871), (91, 21889), (94, 21910),

Gene: Wyatt2_22 Start: 22873, Stop: 23256, Start Num: 48
Candidate Starts for Wyatt2_22:
(Start: 48 @22873 has 568 MA's), (Start: 53 @22909 has 2 MA's), (54, 22912), (63, 22969), (83, 23158), (97, 23239),

Gene: Xavier_33 Start: 33278, Stop: 33667, Start Num: 48
Candidate Starts for Xavier_33:
(Start: 48 @33278 has 568 MA's), (Start: 51 @33302 has 1 MA's), (Start: 52 @33305 has 1 MA's), (70, 33434), (75, 33470), (90, 33605),

Gene: Xincheng_30 Start: 33240, Stop: 33620, Start Num: 50
Candidate Starts for Xincheng_30:
(37, 33132), (40, 33141), (Start: 41 @33147 has 2 MA's), (44, 33174), (Start: 48 @33228 has 568 MA's), (49, 33234), (Start: 50 @33240 has 4 MA's), (Start: 53 @33264 has 2 MA's), (55, 33276), (56, 33288), (60, 33309), (61, 33312), (71, 33390), (72, 33402), (94, 33594),

Gene: Xula_22 Start: 22195, Stop: 22578, Start Num: 48
Candidate Starts for Xula_22:
(Start: 48 @22195 has 568 MA's), (61, 22279), (77, 22393), (79, 22417), (90, 22516),

Gene: Yahalom_34 Start: 33462, Stop: 33845, Start Num: 48
Candidate Starts for Yahalom_34:
(Start: 48 @33462 has 568 MA's), (55, 33510), (62, 33552), (81, 33711), (87, 33768),

Gene: YangYin_24 Start: 24484, Stop: 24873, Start Num: 48
Candidate Starts for YangYin_24:
(Start: 48 @24484 has 568 MA's), (Start: 52 @24511 has 1 MA's), (71, 24646), (88, 24799), (93, 24841), (98, 24862),

Gene: Yinz_34 Start: 33488, Stop: 33871, Start Num: 48
Candidate Starts for Yinz_34:
(Start: 48 @33488 has 568 MA's), (55, 33536), (62, 33578), (81, 33737), (87, 33794),

Gene: Yoshand_34 Start: 33564, Stop: 33953, Start Num: 48
Candidate Starts for Yoshand_34:
(Start: 48 @33564 has 568 MA's), (Start: 51 @33588 has 1 MA's), (Start: 52 @33591 has 1 MA's), (70, 33720), (75, 33756), (90, 33891),

Gene: YouGoGlencoco_34 Start: 33559, Stop: 33948, Start Num: 48
Candidate Starts for YouGoGlencoco_34:
(Start: 48 @33559 has 568 MA's), (Start: 51 @33583 has 1 MA's), (Start: 52 @33586 has 1 MA's), (70, 33715), (75, 33751), (83, 33850), (90, 33886),

Gene: Zaider_35 Start: 33789, Stop: 34178, Start Num: 48
Candidate Starts for Zaider_35:
(Start: 48 @33789 has 568 MA's), (Start: 51 @33813 has 1 MA's), (Start: 52 @33816 has 1 MA's), (70, 33945), (75, 33981), (90, 34116),

Gene: Zakai_23 Start: 21544, Stop: 21930, Start Num: 48
Candidate Starts for Zakai_23:
(Start: 48 @21544 has 568 MA's), (69, 21688), (79, 21769), (82, 21802), (85, 21844), (89, 21865), (91, 21883), (94, 21904),

Gene: Zaria_22 Start: 22887, Stop: 23270, Start Num: 48
Candidate Starts for Zaria_22:
(Start: 48 @22887 has 568 MA's), (Start: 53 @22923 has 2 MA's), (54, 22926), (63, 22983), (83, 23172), (97, 23253),

Gene: Zelda_34 Start: 33606, Stop: 33995, Start Num: 48
Candidate Starts for Zelda_34:
(Start: 48 @33606 has 568 MA's), (Start: 51 @33630 has 1 MA's), (Start: 52 @33633 has 1 MA's), (70, 33762), (75, 33798), (90, 33933),

Gene: Zemanar_32 Start: 33776, Stop: 34168, Start Num: 48
Candidate Starts for Zemanar_32:
(16, 33461), (25, 33536), (28, 33551), (32, 33656), (37, 33680), (39, 33686), (40, 33689), (Start: 41 @33695 has 2 MA's), (44, 33722), (Start: 48 @33776 has 568 MA's), (49, 33782), (Start: 50 @33788 has 4 MA's), (Start: 53 @33812 has 2 MA's), (55, 33824), (56, 33836), (60, 33857), (61, 33860), (71, 33938), (72, 33950), (94, 34142),

Gene: Zenteno07_37 Start: 32867, Stop: 33250, Start Num: 48
Candidate Starts for Zenteno07_37:
(Start: 48 @32867 has 568 MA's), (65, 32990), (92, 33209),

Gene: ZhongYanYuan_22 Start: 21375, Stop: 21761, Start Num: 48
Candidate Starts for ZhongYanYuan_22:
(Start: 48 @21375 has 568 MA's), (79, 21600), (82, 21633), (85, 21675), (89, 21696), (91, 21714), (94, 21735), (98, 21750),

Gene: Zonia_34 Start: 33578, Stop: 33967, Start Num: 48
Candidate Starts for Zonia_34:
(Start: 48 @33578 has 568 MA's), (Start: 51 @33602 has 1 MA's), (Start: 52 @33605 has 1 MA's), (70, 33734), (75, 33770), (90, 33905),