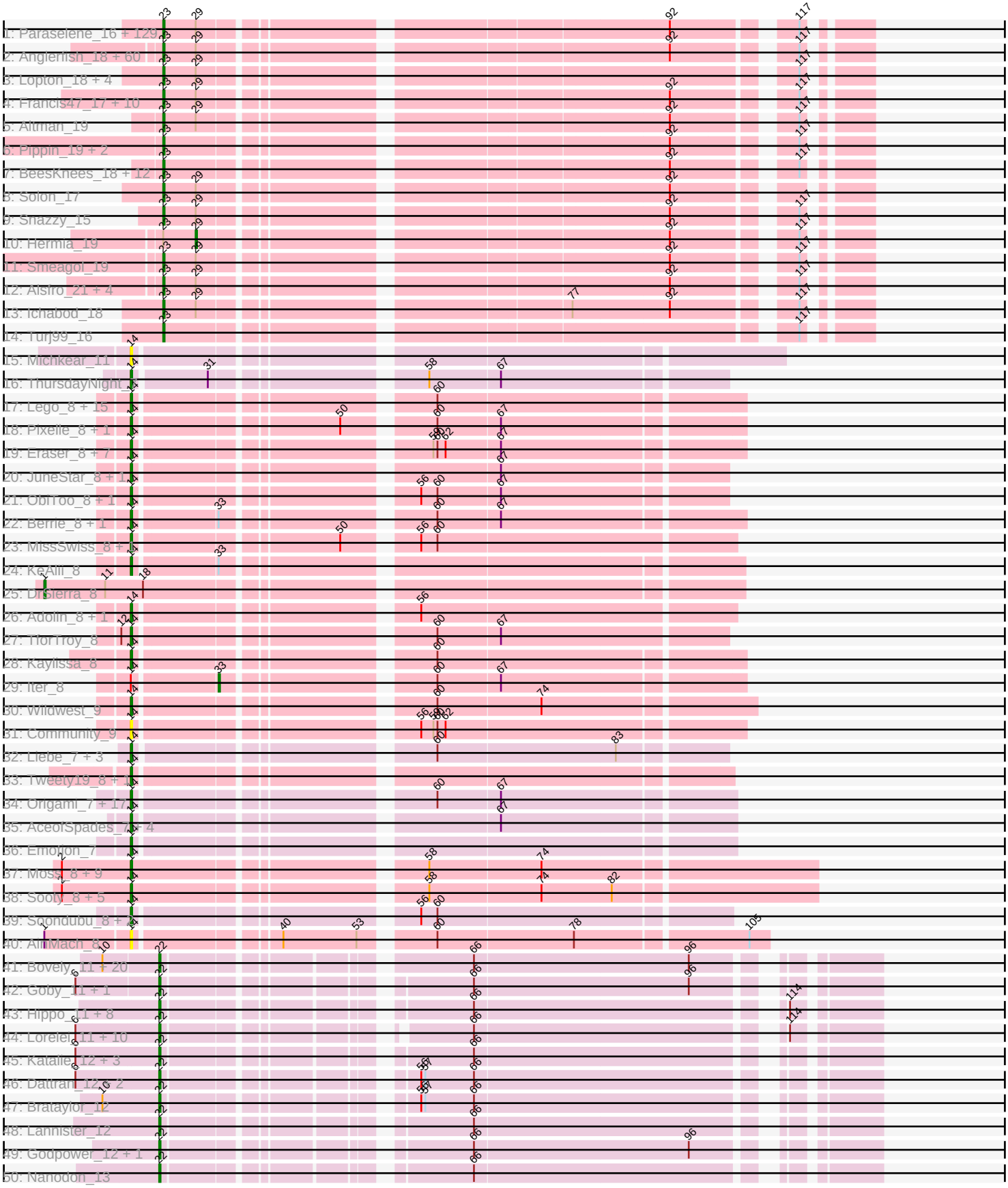
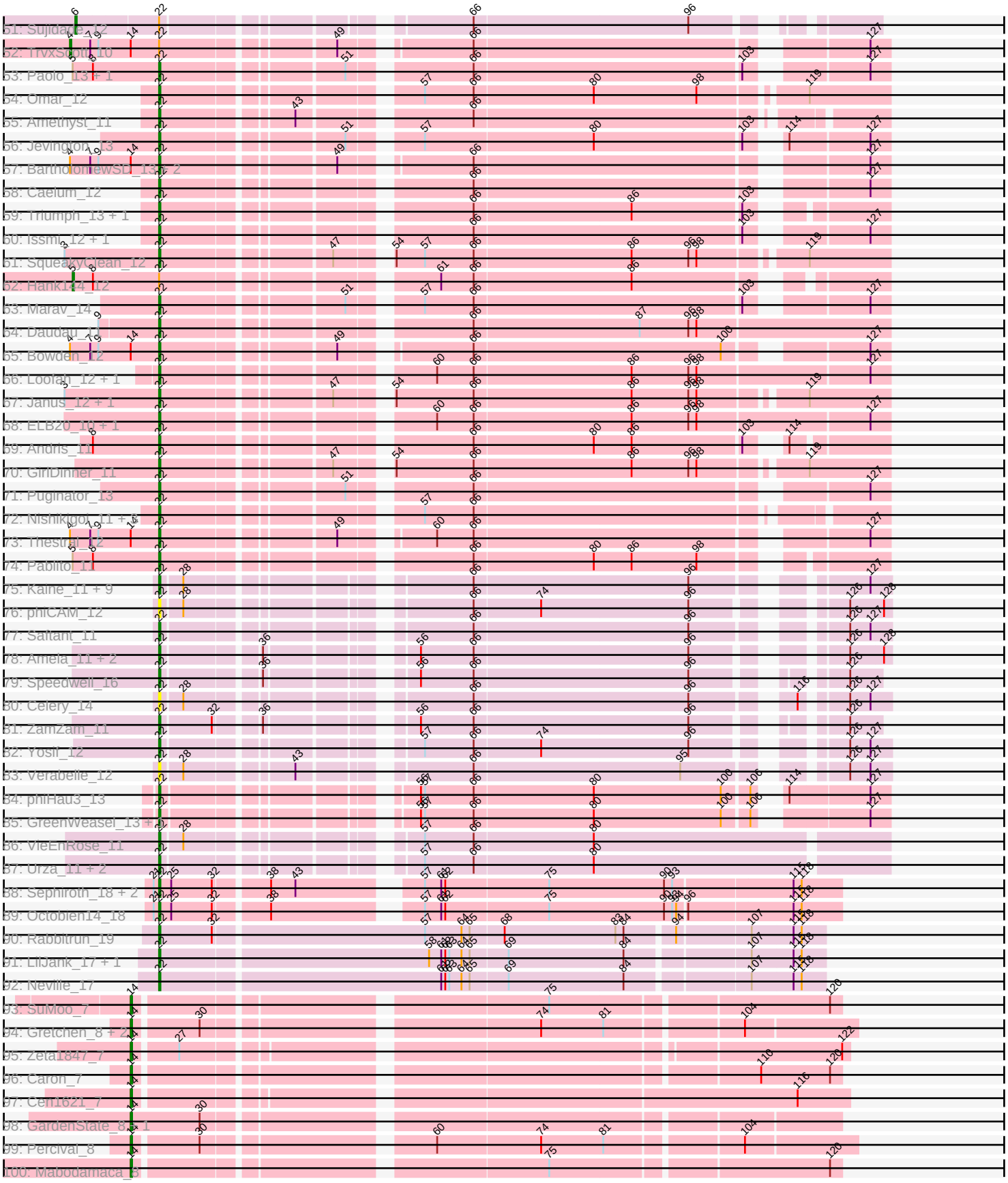
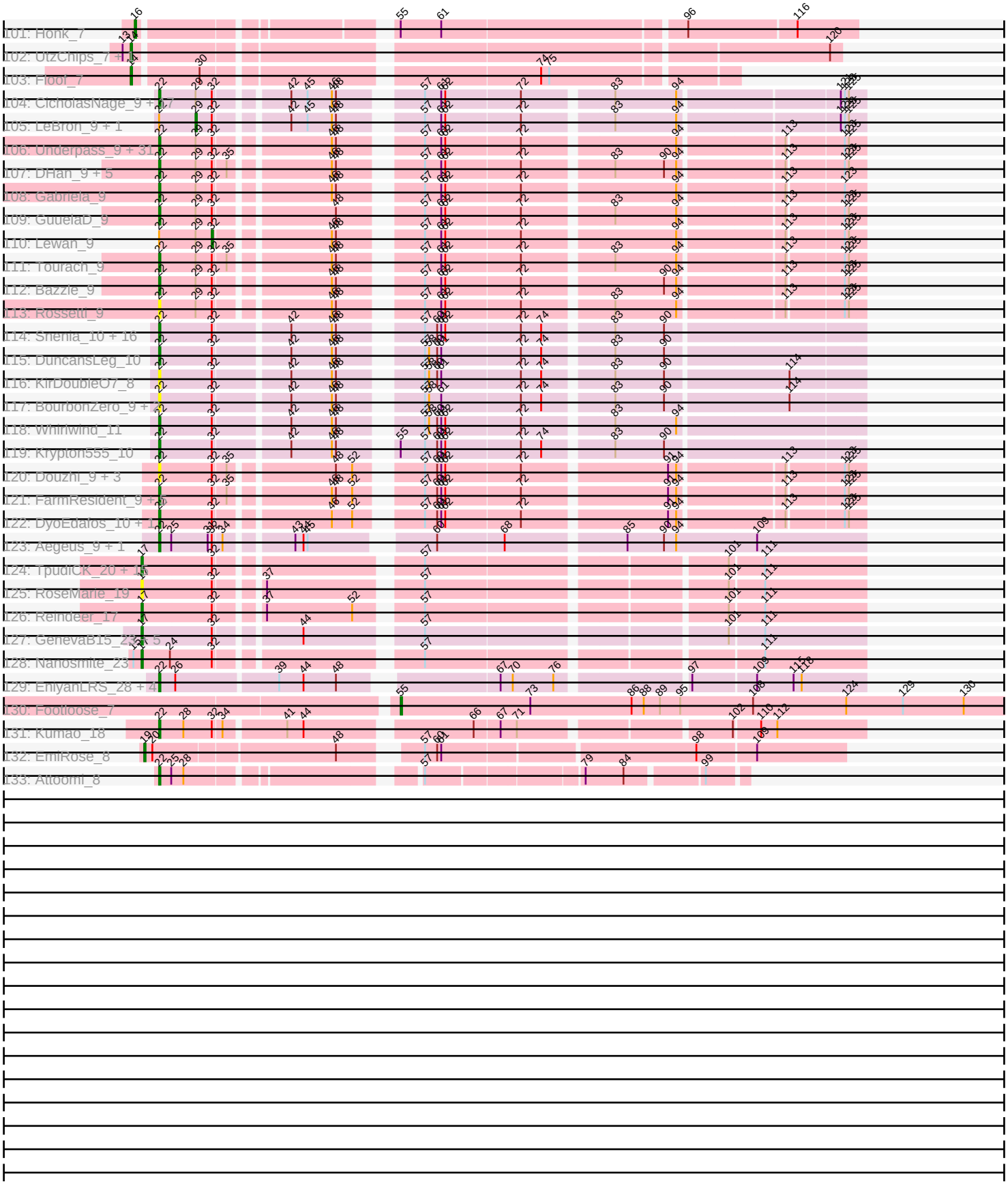
Pham 347056


1: Paraselene_16 + 129
2: Anglerfish_18 + 60
3: Lopton_18 + 4
4: Francis47_17 + 10
5: Altman_19
6: Pippin_19 + 2
7: BeesKnees_18 + 12
8: Solon_17
9: Shazzy_15
10: Hermia_19
11: Smeagol_19
12: Alsiro_21 + 4
13: Ichabod_18
14: Turj99_16
15: Michkear_11
16: ThursdayNight_15
17: Lego_8 + 15
18: Pixelle_8 + 1
19: Eraser_8 + 7
20: JuneStar_8 + 1
21: ObiToo_8 + 1
22: Bernie_8 + 1
23: MissSwiss_8 + 1
24: KeAlli_8
25: DrSierra_8
26: Adolin_8 + 1
27: ThorTroy_8
28: Kaylissa_8
29: Iter_8
30: Wildwest_9
31: Community_9
32: Liebe_7 + 3
33: Tweety19_8 + 1
34: Origami_7 + 17
35: AceofSpades_7 + 4
36: Emotion_7
37: Moss_8 + 9
38: Sooty_8 + 5
39: Spondubu_8 + 2
40: AlinMach_8
41: Bovely_11 + 20
42: Goby_11 + 1
43: Hippo_11 + 8
44: Lorelei_11 + 10
45: Kataile_12 + 3
46: Dattrani_12 + 2
47: Brataylor_12
48: Lannister_12
49: Godpower_12 + 1
50: Nanodon_13

Pham 347056



Pham 347056


I01: Honk_7
I02: UtzChips_7 + 1
I03: Floof_7
I04: CicholasNage_9 + 17
I05: LeBron_9 + 1
I06: Underpass_9 + 31
I07: DHan_9 + 5
I08: Gabriela_9
I09: GuuelaD_9
I10: Lewan_9
I11: Touracn_9
I12: Bazzle_9
I13: Rossetti_9
I14: Shenia_10 + 16
I15: DuncansLeg_10
I16: KirDoubleO7_8
I17: BourbonZero_9 + 2
I18: Whirlwind_11
I19: Krypton555_10
I20: Douzhi_9 + 3
I21: FarmResident_9 + 5
I22: DyoEdafos_10 + 1
I23: Aegeus_9 + 1
I24: TpudiCK_20 + 1
I25: RoseMarie_19
I26: Reindeer_17
I27: GenevaB15_23 + 5
I28: Nanosmite_23
I29: EnlyanLRS_28 + 4
I30: Footloose_7
I31: Kumao_18
I32: EmiRose_8
I33: Attoomi_8

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 347056 Report

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

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

Pham number 347056 has 606 members, 60 are drafts.

Phages represented in each track:
• Track 1 : Paraselene_16, Nerujay_18, Molly_18, Lamina13_17, Petp2012_19, Pepe_18, Bigfoot_16, Marco3_17, Bruns_16, Michley_17, Sorpresa_17, Pita2_19, Mryolo_16, PSullivan_19, StewieG_16, Jasper_18, Rohr_18, MaryBeth_17, ILeeKay_19, Blue_17, PattyP_19, Seanderson_18, BigPaolini_18, Hami1_19, Sumter_16, Payneful_17, Magnito_16, MPlant7149_16, Marge_18, Barriga_17, Burton_18, Graduation_19, Niza_19, Dynamix_18, Beatrix_16, Eyeball_17, Watermelon_19, Fascinus_16, Fushigi_18, SkiPole_19, Magnar_17, Gandalf20_18, Gachnar_17, Euphoria_17, Crispicous1_16, Aeneas_19, Bethlehem_17, Museum_19, Lesedi_16, ProMouse_18, McGuire_18, BPBiebs31_18, Chanagan_16, Arlo_16, Marchy_16, MilleFeuille_16, Levia_17, Sandaddy_16, DD5_18, Mule_17, Moose_16, Teodoridan_15, Pelly_18, Zeuska_18, Ringer_17, PhrostyMug_17, GageAP_19, ChristmasHams_17, Lockley_17, Abrogate_180, Tasp14_18, Maroc7_16, Fajezeel_19, Sagefire_18, Paphu_16, Swole_19, Ajay_17, KBG_18, Tote_19, Perseus_18, GrecoEtereo_18, JackSparrow_18, Dreamboat_18, Sanya_17, Rutherferd_19, BigMau_19, KyMonks1A_19, Makemake_17, Rhynn_17, Ashballer_16, Pinto_19, IgnatiusPatJac_16, Bob3_16, Blesser_17, PhineBark_16, KSSJEB_17, Pari_18, Kanely_18, Applejack_17, TwoPeat_18, Rubeus_18, Espresso_17, Killigrew_15, Atkinbua_18, Sunshine924_16, EnzoK_18, Dulcie_16, QTRlifeCrisis_17, Slagathor_18, Jerm2_18, Greg_19, SwissCheese_17, Homines_17, MrGordo_17, Trouble_17, AFIS_17, Forsytheast_16, MetalQZJ_17, Seabiscuit_19, JuliaChild_19, Jorgensen_17, BarrowTuph_16, HarryOW_18, CactusRose_16, BluSpix_17, Dexes_18, Phlippers_16, Ohno789_17, PinkPlastic_16, SpikeBT_19
• Track 2 : Anglerfish_18, Parliament_16, CartmannCramer_17, Bircsak_17, PowerRanger_17, Kenmech_20, Squee_18, Gompeii16_17, Briton15_19, Agaliana_17, ThelониousMonk_19, Peterson_20, StrongArm_16, Switzer_18, Bigchungi_17, Alvin_18, Abbyshoes_18, GMonster_16, HermioneGrange_17, Monet_19, Aldrich_18, Froghopper_18, Naira_18, Edtherson_18, HanShotFirst_17, NEHalo_17, McSinger_18, DreamCatcher_20, Carlyle_19, Buttons_18, Petruchio_17, Hope4ever_17, Zephyr_17, Treddle_19, CatBus_18, LilBib_18, Thor_17, ShortQueendom_17, Blackflame_17, DirtDevil_18, Gyzlar_19, JC27_19, Rufus_18, Doom_18, Zeeculate_16, Marcell_17, Bexan_16, GroundGoblin_18, Tripl3t_18, Noxious_19, U2_17, STLscum_18, Sibs6_19, Licorice_19, SarFire_17, Wheeler_17,

KikiBouba_19, Manatee_18, Corvo_17, Fenn_18, Dussy_18
• Track 3 : Lopton_18, Norz_19, PherrisBueller_18, Scowl_18, Big3_17
• Track 4 : Francis47_17, Papez_19, RidgeCB_17, BaconJack_19, Marsha_17, Arcanine_18, DrFeelGood_16, Rajelicia_17, Traft412_19, Smairt_18, Nhonho_17
• Track 5 : Altman_19
• Track 6 : Pippin_19, Acme_19, Ciao_17
• Track 7 : BeesKnees_18, Topgun_17, Cueylyss_17, Violet_16, PacerPaul_17, Adahisdi_18, PascalRango_16, Bones_17, LunarLander_17, Wilkins_17, ConceptII_18, Puppet_17, Oogway_16
• Track 8 : Solon_17
• Track 9 : Snazzy_15
• Track 10 : Hermia_19
• Track 11 : Smeagol_19
• Track 12 : Alsfro_21, Inyanga_16, Mkhuseli_18, Raid_17, Iqorha_16
• Track 13 : Ichabod_18
• Track 14 : Turj99_16
• Track 15 : Michkear_11
• Track 16 : ThursdayNight_7
• Track 17 : Lego_8, Flutur_8, AGrandiflora_8, Tallboi_8, JohnDoe_8, Mudpuppy_8, Tuck_9, Joemato_8, Warda_8, VResidence_8, Cyan_8, YesChef_8, Tbone_8, Tutumahutu_8, Simpson_8, Powerpuff_8
• Track 18 : Pixelle_8, Phives_9
• Track 19 : Eraser_8, Elezi_8, Asa16_8, Skelbel_8, London_8, Subaru_8, Niobe_8, Jstan_8
• Track 20 : JuneStar_8, Sue2_8
• Track 21 : ObiToo_8, Crewmate_9
• Track 22 : Berrie_8, Ascela_8
• Track 23 : MissSwiss_8, PandaPo_8
• Track 24 : KeAlii_8
• Track 25 : DrSierra_8
• Track 26 : Adolin_8, Reedo_8
• Track 27 : TforTroy_8
• Track 28 : Kaylissa_8
• Track 29 : Iter_8
• Track 30 : Wildwest_9
• Track 31 : Community_9
• Track 32 : Liebe_7, Maureen_7, MaGuCo_7, IUFootball_7
• Track 33 : Tweety19_8, Snek_8
• Track 34 : Origami_7, FiveHead_7, Nitro_8, Turab_8, JohnThicc_7, LadyAstra_7, IttyBittyPiggy_8, Amyev_8, AEgle_8, Amploria_8, Adumb2043_8, Yang_8, Cassia_8, Lizalica_8, Schaffner_8, Janeemi_9, Tian_8, Pumpkins_8
• Track 35 : AceofSpades_7, MiniMommy_7, JasmineDragon_7, ShakeItOph_7, VroomVroom_7
• Track 36 : Emotion_7
• Track 37 : Moss_8, Halsey_8, Stuu_8, Ashes_8, RockScotty_8, Giorgio_8, SpecialK_8, Mysterium_8, Beaupre_8, Gumpizza_8
• Track 38 : Sooty_8, Gambol_8, Cappuccino_8, Donkey_8, Sabourin_8, Kalimba_8
• Track 39 : Soondubu_8, DrManhattan_8, Exile_8
• Track 40 : AinMach_8
• Track 41 : Bovely_11, Oliynyk_12, Rusticus_12, Ozzie_11, Aaronocolus_11, BeardedLady_12, BryanRecycles_12, Legacy_11, Jash_12, Esperer_11, Indigo_11, Eddasa_12, SunsetPointe_11, Nerdos_11, Phettuccine_11, EnochSoames_12, Leviticus_11, Caliburn_11, Hydra_13, Unstoppable_11, Izzy_12

• Track 42 : Goby_11, Toma_11
• Track 43 : Hippo_11, Whatever_11, Snorlax_11, SarahRose_11, Chucky_11, BarryBee_13, Emaanora_13, Werner_11, TagePhighter_12
• Track 44 : Lorelei_11, Maneekul_11, Triste_11, Dwayne_11, Nabi_11, TuanPN_11, Asten_11, OzzyJ_12, Ejemplo_11, Yasdnil_11, Rana_11
• Track 45 : Katalie_12, RedBear_13, Danzina_12, South40_12
• Track 46 : Dattran_12, Celeste_11, Zemlya_12
• Track 47 : Brataylor_12
• Track 48 : Lannister_12
• Track 49 : Godpower_12, Lika_11
• Track 50 : Nanodon_13
• Track 51 : Sujidade_12
• Track 52 : TrvxScott_10
• Track 53 : Paolo_13, Zainub_13
• Track 54 : Omar_12
• Track 55 : Amethyst_11
• Track 56 : Jevington_13
• Track 57 : BartholomewSD_13, Alvy_13, TinaBelcher_11
• Track 58 : Caelum_12
• Track 59 : Triumph_13, Axiom_12
• Track 60 : Issmi_12, Superstar_13
• Track 61 : SqueakyClean_12
• Track 62 : Hank144_12
• Track 63 : Marav_14
• Track 64 : Daudau_11
• Track 65 : Bowden_12
• Track 66 : Loofah_12, Paedore_11
• Track 67 : Janus_12, Animus_12
• Track 68 : ELB20_10, R4_11
• Track 69 : Andris_11
• Track 70 : GirlDinner_11
• Track 71 : Puginator_13
• Track 72 : Nishikigoi_11, Haizum_11, Tefunt_11, Diane_11
• Track 73 : Thestral_12
• Track 74 : Pablito_11
• Track 75 : Kaine_11, Vanseggelen_14, Conan_12, ElGato_12, Dexers_10, Alsaber_12, Sudan_11, Provolone_12, Pavo_12, Jhitchelle_10
• Track 76 : phiCAM_12
• Track 77 : Saftant_11
• Track 78 : Amela_11, Verse_11, SunkenRoot_11
• Track 79 : Speedwell_16
• Track 80 : Celery_14
• Track 81 : ZamZam_11
• Track 82 : Yosif_12
• Track 83 : Verabelle_12
• Track 84 : phiHau3_13
• Track 85 : GreenWeasel_13, BroPlease_12
• Track 86 : VieEnRose_11
• Track 87 : Urza_11, Itza_11, Celia_11
• Track 88 : Sephiroth_18, Syleon_18, Kudefre_17
• Track 89 : Octobien14_18
• Track 90 : Rabbitrun_19
• Track 91 : LilJank_17, Trax_17

• Track 92 : Neville_17
• Track 93 : SuMoo_7
• Track 94 : Gretchen_8, Forester_8, SuperHands_8
• Track 95 : Zeta1847_7
• Track 96 : Caron_7
• Track 97 : Cen1621_7
• Track 98 : GardenState_8, IAmGroot_8
• Track 99 : Percival_8
• Track 100 : Mabodamaca_8
• Track 101 : Honk_7
• Track 102 : UtzChips_7, Barnstormer_7
• Track 103 : Floof_7
• Track 104 : CicholasNage_9, DirkDirk_9, OhShagHennessy_9, Zaria_9, AvadaKedavra_9, JoeDirt_9, Wamburgrxpress_9, MAckerman_9, Calm_9, Acquire49_9, Tyson_9, Wyatt2_9, Appletree2_9, Rose5_9, Enceladus_9, Silverleaf_9, Halena_9, Poochiewood_9
• Track 105 : LeBron_9, UPIE_9
• Track 106 : Underpass_9, Nicholasp3_9, BobsGarage_9, Lynnae_9, OverPar_9, Miley16_9, Zakai_9, Loadrie_9, SoJulia_9, Gardann_9, MkaliMitinis3_9, BigCheese_9, Faith1_9, ChengKai98_9, Hiraya_9, Itos_9, Netyap_9, LilDestine_9, Winky_9, Breezona_9, DrSeegs_9, Rumpelstiltskin_9, Vetrix_9, Soap141_9, Sarshaun_9, Kahlid_9, Finemlucis_9, Molivier_9, Wilder_9, Crossroads_9, Hafay_9, Wigglewiggle_9
• Track 107 : DHan_9, Baoshan_8, Claus_9, ZhongYanYuan_8, Archie_9, DanBing_8
• Track 108 : Gabriela_9
• Track 109 : GuuelaD_9
• Track 110 : Lewan_9
• Track 111 : Tourach_9
• Track 112 : Bazzle_9
• Track 113 : Rossetti_9
• Track 114 : Snenia_10, Finnry_10, MiniMac_10, MsGreen_10, Jobypre_10, Lolly9_10, Red305_10, Jubie_10, Bellis_10, Samty_10, Clautastrophe_10, Kingsolomon_10, TriFive_10, Nicholas_10, Moostard_10, MiniLon_10, Lumos_10
• Track 115 : DuncansLeg_10
• Track 116 : KirDoubleO7_8
• Track 117 : BourbonZero_9, LiyuLake_10, Ellson_10
• Track 118 : Whirlwind_11
• Track 119 : Krypton555_10
• Track 120 : Douzhi_9, PYPDinur_9, BrainDrainer_10, Sheng711_9
• Track 121 : FarmResident_9, Chaser_9, Douge_9, ChutneyChips_9, Bromden_9, Quby_9
• Track 122 : DyoEdafos_10, Kropertea_9
• Track 123 : Aegeus_9, Baudelaire_9
• Track 124 : TpudiCK_20, Izel_20, Bricole_19, IPhane7_19, KleverKiS_19, Glaske16_20, PegLeg_19, FreakyGoo_20, Skinny_20, LilhomieP_18, TyDawg_19, Diminimus_20, Auspice_19, Bongo_19, SlimJimmy_18, Dulcita_20
• Track 125 : RoseMarie_19
• Track 126 : Reindeer_17
• Track 127 : GenevaB15_23, Aziz_23, GardenSalsa_23, Estes_24, Rey_23, MrMagoo_23
• Track 128 : Nanosmite_23
• Track 129 : EniyanLRS_28, Azrael100_30, MaryV_31, Cosmo_31, Wildcat_31
• Track 130 : Footloose_7

• Track 131 : Kumao_18
• Track 132 : EmiRose_8
• Track 133 : Attoomi_8

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

The start number called the most often in the published annotations is 23, it was called in 221 of the 546 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AFIS_17, Abbyshoes_18, Abrogate_180, Acme_19, Adahisdi_18, Aeneas_19, Agaliana_17, Ajay_17, Aldrich_18, Alsfro_21, Altman_19, Alvin_18, Anglerfish_18, Applejack_17, Arcanine_18, Arlo_16, Ashballer_16, Atkinbua_18, BPBiebs31_18, BaconJack_19, Barriga_17, BarrowTuph_16, Beatrix_16, BeesKnees_18, Bethlehem_17, Bexan_16, Big3_17, BigMau_19, BigPaolini_18, Bigchungi_17, Bigfoot_16, Bircsak_17, Blackflame_17, Blesser_17, BluSpix_17, Blue_17, Bob3_16, Bones_17, Briton15_19, Bruns_16, Burton_18, Buttons_18, CactusRose_16, Carlyle_19, CartmannCramer_17, CatBus_18, Chanagan_16, ChristmasHams_17, Ciao_17, ConceptII_18, Corvo_17, Crispicous1_16, Cueylyss_17, DD5_18, Dexes_18, DirtDevil_18, Doom_18, DrFeelGood_16, DreamCatcher_20, Dreamboat_18, Dulcie_16, Dussy_18, Dynamix_18, Edtherson_18, EnzoK_18, Espresso_17, Euphoria_17, Eyeball_17, Fajezeel_19, Fascinus_16, Fenn_18, Forsytheast_16, Francis47_17, Froghopper_18, Fushigi_18, GMonster_16, Gachnar_17, GageAP_19, Gandalf20_18, Gompeii16_17, Graduation_19, GrecoEtereo_18, Greg_19, GroundGoblin_18, Gyzlar_19, Hami1_19, HanShotFirst_17, HarryOW_18, HermioneGrange_17, Homines_17, Hope4ever_17, ILeeKay_19, Ichabod_18, IgnatiusPatJac_16, Inyanga_16, Iqorha_16, JC27_19, JackSparrow_18, Jasper_18, Jerm2_18, Jorgensen_17, JuliaChild_19, KBG_18, KSSJEB_17, Kanely_18, Kenmech_20, KikiBouba_19, Killigrew_15, KyMonks1A_19, Lamina13_17, Lesedi_16, Levia_17, Licorice_19, LilBib_18, Lockley_17, Lopton_18, LunarLander_17, MPlant7149_16, Magnar_17, Magnito_16, Makemake_17, Manatee_18, Marcell_17, Marchy_16, Marco3_17, Marge_18, Maroc7_16, Marsha_17, MaryBeth_17, McGuire_18, McSinger_18, MetalQZJ_17, Michley_17, MilleFeuille_16, Mkhuseli_18, Molly_18, Monet_19, Moose_16, MrGordo_17, Mryolo_16, Mule_17, Museum_19, NEHalo_17, Naira_18, Nerujay_18, Nhonho_17, Niza_19, Norz_19, Noxious_19, Ohno789_17, Oogway_16, PSullivan_19, PacerPaul_17, Papez_19, Paphu_16, Paraselene_16, Pari_18, Parliament_16, PascalRango_16, PattyP_19, Payneful_17, Pelly_18, Pepe_18, Perseus_18, Peterson_20, Petp2012_19, Petruchio_17, PherrisBueller_18, PhineBark_16, Phlippers_16, PhrostyMug_17, PinkPlastic_16, Pinto_19, Pippin_19, Pita2_19, PowerRanger_17, ProMouse_18, Puppet_17, QTRlifeCrisis_17, Raid_17, Rajelicia_17, Rhynn_17, RidgeCB_17, Ringer_17, Rohr_18, Rubeus_18, Rufus_18, Rutherferd_19, STLscum_18, Sagefire_18, Sandaddy_16, Sanya_17, SarFire_17, Scowl_18, Seabiscuit_19, Seanderson_18, ShortQueendom_17, Sibs6_19, SkiPole_19, Slagathor_18, Smairt_18, Smeagol_19, Snazzy_15, Solon_17, Sorpresa_17, SpikeBT_19, Squee_18, StewieG_16, StrongArm_16, Sumter_16, Sunshine924_16, SwissCheese_17, Switzer_18, Swole_19, Tasp14_18, Teodoridan_15, TheloniousMonk_19, Thor_17, Topgun_17, Tote_19, Traft412_19, Treddle_19, Tripl3t_18, Trouble_17, Turj99_16, TwoPeat_18, U2_17, Violet_16, Watermelon_19, Wheeler_17, Wilkins_17, Zeeculate_16, Zephyr_17, Zeuska_18,

Genes that have the "Most Annotated" start but do not call it:
• Hermia_19,

Genes that do not have the "Most Annotated" start:
• AEgle_8, AGrandiflora_8, Aaronocolus_11, AceofSpades_7, Acquire49_9, Adolin_8, Adumb2043_8, Aegeus_9, AinMach_8, Alsaber_12, Alvy_13, Amela_11, Amethyst_11, Amploria_8, Amyev_8, Andris_11, Animus_12, Appletree2_9, Archie_9, Asa16_8, Ascela_8, Ashes_8, Asten_11, Attoomi_8, Auspice_19, AvadaKedavra_9, Axiom_12, Aziz_23, Azrael100_30, Baoshan_8, Barnstormer_7, BarryBee_13, BartholomewSD_13, Baudelaire_9, Bazzle_9, BeardedLady_12, Beaupre_8, Bellis_10, Berrie_8, BigCheese_9, BobsGarage_9, Bongo_19, BourbonZero_9, Bovely_11, Bowden_12, BrainDrainer_10, Brataylor_12, Breezona_9, Bricole_19, BroPlease_12, Bromden_9, BryanRecycles_12, Caelum_12, Caliburn_11, Calm_9, Cappuccino_8, Caron_7, Cassia_8, Celery_14, Celeste_11, Celia_11, Cen1621_7, Chaser_9, ChengKai98_9, Chucky_11, ChutneyChips_9, CicholasNage_9, Claus_9, Clautastrophe_10, Community_9, Conan_12, Cosmo_31, Crewmate_9, Crossroads_9, Cyan_8, DHan_9, DanBing_8, Danzina_12, Dattran_12, Daudau_11, Dexers_10, Diane_11, Diminimus_20, DirkDirk_9, Donkey_8, Douge_9, Douzhi_9, DrManhattan_8, DrSeegs_9, DrSierra_8, Dulcita_20, DuncansLeg_10, Dwayne_11, DyoEdafos_10, ELB20_10, Eddasa_12, Ejemplo_11, ElGato_12, Elezi_8, Ellson_10, Emaanora_13, EmiRose_8, Emotion_7, Enceladus_9, EniyanLRS_28, EnochSoames_12, Eraser_8, Esperer_11, Estes_24, Exile_8, Faith1_9, FarmResident_9, Finemlucis_9, Finnry_10, FiveHead_7, Floof_7, Flutur_8, Footloose_7, Forester_8, FreakyGoo_20, Gabriela_9, Gambol_8, Gardann_9, GardenSalsa_23, GardenState_8, GenevaB15_23, Giorgio_8, GirlDinner_11, Glaske16_20, Goby_11, Godpower_12, GreenWeasel_13, Gretchen_8, Gumpizza_8, GuuelaD_9, Hafay_9, Haizum_11, Halena_9, Halsey_8, Hank144_12, Hippo_11, Hiraya_9, Honk_7, Hydra_13, IAmGroot_8, IPhane7_19, IUFootball_7, Indigo_11, Issmi_12, Iter_8, Itos_9, IttyBittyPiggy_8, Itza_11, Izel_20, Izzy_12, Janeemi_9, Janus_12, Jash_12, JasmineDragon_7, Jevington_13, Jhitchelle_10, Jobypre_10, JoeDirt_9, Joemato_8, JohnDoe_8, JohnThicc_7, Jstan_8, Jubie_10, JuneStar_8, Kahlid_9, Kaine_11, Kalimba_8, Katalie_12, Kaylissa_8, KeAlii_8, Kingsolomon_10, KirDoubleO7_8, KleverKiS_19, Kropertea_9, Krypton555_10, Kudefre_17, Kumao_18, LadyAstra_7, Lannister_12, LeBron_9, Legacy_11, Lego_8, Leviticus_11, Lewan_9, Liebe_7, Lika_11, LilDestine_9, LilJank_17, LilhomieP_18, LiyuLake_10, Lizalica_8, Loadrie_9, Lolly9_10, London_8, Loofah_12, Lorelei_11, Lumos_10, Lynnae_9, MAckerman_9, MaGuCo_7, Mabodamaca_8, Maneekul_11, Marav_14, MaryV_31, Maureen_7, Michkear_11, Miley16_9, MiniLon_10, MiniMac_10, MiniMommy_7, MissSwiss_8, MkaliMitinis3_9, Molivier_9, Moostard_10, Moss_8, MrMagoo_23, MsGreen_10, Mudpuppy_8, Mysterium_8, Nabi_11, Nanodon_13, Nanosmite_23, Nerdos_11, Netyap_9, Neville_17, Nicholas_10, Nicholasp3_9, Niobe_8, Nishikigoi_11, Nitro_8, ObiToo_8, Octobien14_18, OhShagHennessy_9, Oliynyk_12, Omar_12, Origami_7, OverPar_9, Ozzie_11, OzzyJ_12, PYPDinur_9, Pablito_11, Paedore_11, PandaPo_8, Paolo_13, Pavo_12, PegLeg_19, Percival_8, Phettuccine_11, Phives_9, Pixelle_8, Poochiewood_9, Powerpuff_8, Provolone_12, Puginator_13, Pumpkins_8, Quby_9, R4_11, Rabbitrun_19, Rana_11, Red305_10, RedBear_13, Reedo_8, Reindeer_17, Rey_23, RockScotty_8, Rose5_9, RoseMarie_19, Rossetti_9, Rumpelstiltskin_9, Rusticus_12, Sabourin_8, Saftant_11, Samty_10, SarahRose_11, Sarshaun_9, Schaffner_8, Sephiroth_18, ShakeItOph_7, Sheng711_9, Silverleaf_9, Simpson_8, Skelbel_8, Skinny_20, SlimJimmy_18, Snek_8, Snenia_10, Snorlax_11, SoJulia_9, Soap141_9, Soondubu_8, Sooty_8, South40_12, SpecialK_8, Speedwell_16,

SqueakyClean_12, Stuu_8, SuMoo_7, Subaru_8, Sudan_11, Sue2_8, Sujidade_12, SunkenRoot_11, SunsetPointe_11, SuperHands_8, Superstar_13, Syleon_18, TagePhighter_12, Tallboi_8, Tbone_8, Tefunt_11, TforTroy_8, Thestral_12, ThursdayNight_7, Tian_8, TinaBelcher_11, Toma_11, Tourach_9, TpudiCK_20, Trax_17, TriFive_10, Triste_11, Triumph_13, TrvxScott_10, TuanPN_11, Tuck_9, Turab_8, Tutumahutu_8, Tweety19_8, TyDawg_19, Tyson_9, UPIE_9, Underpass_9, Unstoppable_11, Urza_11, UtzChips_7, VResidence_8, Vanseggelen_14, Verabelle_12, Verse_11, Vetrix_9, VieEnRose_11, VroomVroom_7, Wamburgrxpress_9, Warda_8, Werner_11, Whatever_11, Whirlwind_11, Wigglewiggle_9, Wildcat_31, Wilder_9, Wildwest_9, Winky_9, Wyatt2_9, Yang_8, Yasdnil_11, YesChef_8, Yosif_12, Zainub_13, Zakai_9, ZamZam_11, Zaria_9, Zemlya_12, Zeta1847_7, ZhongYanYuan_8, phiCAM_12, phiHau3_13,

Summary by start number:

Start 1:
• Found in 2 of 606 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 546
• Called 50.0% of time when present
• Phage (with cluster) where this start called: DrSierra_8 (AZ1),

Start 4:
• Found in 6 of 606 (1.0%) of genes in pham
• Manual Annotations of this start: 1 of 546
• Called 16.7% of time when present
• Phage (with cluster) where this start called: TrvxScott_10 (BD2),

Start 5:
• Found in 4 of 606 (0.7%) of genes in pham
• Manual Annotations of this start: 1 of 546
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Hank144_12 (BD2),

Start 6:
• Found in 21 of 606 (3.5%) of genes in pham
• Manual Annotations of this start: 1 of 546
• Called 4.8% of time when present
• Phage (with cluster) where this start called: Sujidade_12 (BD1),

Start 14:
• Found in 114 of 606 (18.8%) of genes in pham
• Manual Annotations of this start: 93 of 546
• Called 93.9% of time when present
• Phage (with cluster) where this start called: AEgle_8 (AZ1), AGrandiflora_8 (AZ1), AceofSpades_7 (AZ4), Adolin_8 (AZ1), Adumb2043_8 (AZ1), AinMach_8 (AZ7), Amploria_8 (AZ1), Amyev_8 (AZ1), Asa16_8 (AZ1), Ascela_8 (AZ1), Ashes_8 (AZ5), Barnstormer_7 (EH), Beaupre_8 (AZ5), Berrie_8 (AZ1), Cappuccino_8 (AZ5), Caron_7 (EH), Cassia_8 (AZ1), Cen1621_7 (EH), Community_9 (AZ1), Crewmate_9 (AZ1), Cyan_8 (AZ1), Donkey_8 (AZ5), DrManhattan_8 (AZ1), Elezi_8 (AZ1), Emotion_7 (AZ4), Eraser_8 (AZ1), Exile_8 (AZ6), FiveHead_7 (AZ4), Floof_7 (EH), Flutur_8 (AZ), Forester_8 (EH), Gambol_8 (AZ5), GardenState_8 (EH), Giorgio_8 (AZ5), Gretchen_8 (EH), Gumpizza_8 (AZ5), Halsey_8 (AZ5), IAmGroot_8 (EH), IUFootball_7 (AZ2), IttyBittyPiggy_8 (AZ1), Janeemi_9 (AZ1), JasmineDragon_7

(AZ4), Joemato_8 (AZ1), JohnDoe_8 (AZ1), JohnThicc_7 (AZ4), Jstan_8 (AZ1), JuneStar_8 (AZ1), Kalimba_8 (AZ5), Kaylissa_8 (AZ1), KeAlii_8 (AZ1), LadyAstra_7 (AZ4), Lego_8 (AZ1), Liebe_7 (AZ2), Lizalica_8 (AZ1), London_8 (AZ1), MaGuCo_7 (AZ2), Mabodamaca_8 (EH), Maureen_7 (AZ2), Michkear_11 (AZ), MiniMommy_7 (AZ4), MissSwiss_8 (AZ1), Moss_8 (AZ5), Mudpuppy_8 (AZ1), Mysterium_8 (AZ5), Niobe_8 (AZ1), Nitro_8 (AZ1), ObiToo_8 (AZ1), Origami_7 (AZ4), PandaPo_8 (AZ1), Percival_8 (EH), Phives_9 (AZ1), Pixelle_8 (AZ1), Powerpuff_8 (AZ1), Pumpkins_8 (AZ1), Reedo_8 (AZ1), RockScotty_8 (AZ5), Sabourin_8 (AZ5), Schaffner_8 (AZ1), ShakeItOph_7 (AZ4), Simpson_8 (AZ1), Skelbel_8 (AZ1), Snek_8 (AZ3), Soondubu_8 (AZ6), Sooty_8 (AZ5), SpecialK_8 (AZ5), Stuu_8 (AZ5), SuMoo_7 (EH), Subaru_8 (AZ1), Sue2_8 (AZ1), SuperHands_8 (EH), Tallboi_8 (AZ1), Tbone_8 (AZ1), TforTroy_8 (AZ1), ThursdayNight_7 (AZ), Tian_8 (AZ1), Tuck_9 (AZ1), Turab_8 (AZ1), Tutumahutu_8 (AZ1), Tweety19_8 (AZ3), UtzChips_7 (EH), VResidence_8 (AZ1), VroomVroom_7 (AZ4), Warda_8 (AZ1), Wildwest_9 (AZ1), Yang_8 (AZ1), YesChef_8 (AZ1), Zeta1847_7 (EH),

Start 16:
• Found in 1 of 606 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 546
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Honk_7 (EH),

Start 17:
• Found in 25 of 606 (4.1%) of genes in pham
• Manual Annotations of this start: 22 of 546
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Auspice_19 (M1), Aziz_23 (M2), Bongo_19 (M1), Bricole_19 (M1), Diminimus_20 (M1), Dulcita_20 (M1), Estes_24 (M2), FreakyGoo_20 (M1), GardenSalsa_23 (M2), GenevaB15_23 (M2), Glaske16_20 (M1), IPhane7_19 (M1), Izel_20 (M1), KleverKiS_19 (M1), LilhomieP_18 (M1), MrMagoo_23 (M2), Nanosmite_23 (M3), PegLeg_19 (M1), Reindeer_17 (M1), Rey_23 (M2), RoseMarie_19 (M1), Skinny_20 (M1), SlimJimmy_18 (M1), TpudiCK_20 (M1), TyDawg_19 (M1),

Start 19:
• Found in 1 of 606 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 546
• Called 100.0% of time when present
• Phage (with cluster) where this start called: EmiRose_8 (singleton),

Start 22:
• Found in 234 of 606 (38.6%) of genes in pham
• Manual Annotations of this start: 198 of 546
• Called 97.4% of time when present
• Phage (with cluster) where this start called: Aaronocolus_11 (BD1), Acquire49_9 (L1), Aegeus_9 (L5), Alsaber_12 (BD3), Alvy_13 (BD2), Amela_11 (BD3), Amethyst_11 (BD2), Andris_11 (BD2), Animus_12 (BD2), Appletree2_9 (L1), Archie_9 (L2), Asten_11 (BD1), Attoomi_8 (singleton), AvadaKedavra_9 (L1), Axiom_12 (BD2), Azrael100_30 (V), Baoshan_8 (L2), BarryBee_13 (BD1), BartholomewSD_13 (BD2), Baudelaire_9 (L5), Bazzle_9 (L2), BeardedLady_12 (BD1), Bellis_10 (L3), BigCheese_9 (L2), BobsGarage_9 (L2), BourbonZero_9 (L3), Bovely_11 (BD1), Bowden_12 (BD2), BrainDrainer_10 (L4), Brataylor_12 (BD1), Breezona_9 (L2), BroPlease_12 (BD4), Bromden_9 (L4), BryanRecycles_12 (BD1),

Caelum_12 (BD2), Caliburn_11 (BD1), Calm_9 (L1), Celery_14 (BD3), Celeste_11 (BD1), Celia_11 (BD6), Chaser_9 (L4), ChengKai98_9 (L2), Chucky_11 (BD1), ChutneyChips_9 (L4), CicholasNage_9 (L1), Claus_9 (L2), Clautastrophe_10 (L3), Conan_12 (BD3), Cosmo_31 (V), Crossroads_9 (L2), DHan_9 (L2), DanBing_8 (L2), Danzina_12 (BD1), Dattran_12 (BD1), Daudau_11 (BD2), Dexers_10 (BD3), Diane_11 (BD2), DirkDirk_9 (L1), Douge_9 (L4), Douzhi_9 (L4), DrSeegs_9 (L2), DuncansLeg_10 (L3), Dwayne_11 (BD1), DyoEdafos_10 (L4), ELB20_10 (BD2), Eddasa_12 (BD1), Ejemplo_11 (BD1), ElGato_12 (BD3), Ellson_10 (L3), Emaanora_13 (BD1), Enceladus_9 (L1), EniyanLRS_28 (V), EnochSoames_12 (BD1), Esperer_11 (BD1), Faith1_9 (L2), FarmResident_9 (L4), Finemlucis_9 (L2), Finnry_10 (L3), Gabriela_9 (L2), Gardann_9 (L2), GirlDinner_11 (BD2), Goby_11 (BD1), Godpower_12 (BD1), GreenWeasel_13 (BD4), GuuelaD_9 (L2), Hafay_9 (L2), Haizum_11 (BD2), Halena_9 (L1), Hippo_11 (BD1), Hiraya_9 (L2), Hydra_13 (BD1), Indigo_11 (BD1), Issmi_12 (BD2), Itos_9 (L2), Itza_11 (BD6), Izzy_12 (BD1), Janus_12 (BD2), Jash_12 (BD1), Jevington_13 (BD2), Jhitchelle_10 (BD3), Jobypre_10 (L3), JoeDirt_9 (L1), Jubie_10 (L3), Kahlid_9 (L2), Kaine_11 (BD3), Katalie_12 (BD1), Kingsolomon_10 (L3), KirDoubleO7_8 (L3), Kropertea_9 (L4), Krypton555_10 (L3), Kudefre_17 (DU1), Kumao_18 (singleton), Lannister_12 (BD1), Legacy_11 (BD1), Leviticus_11 (BD1), Lika_11 (BD1), LilDestine_9 (L2), LilJank_17 (DU2), LiyuLake_10 (L3), Loadrie_9 (L2), Lolly9_10 (L3), Loofah_12 (BD2), Lorelei_11 (BD1), Lumos_10 (L3), Lynnae_9 (L2), MAckerman_9 (L1), Maneekul_11 (BD1), Marav_14 (BD2), MaryV_31 (V), Miley16_9 (L2), MiniLon_10 (L3), MiniMac_10 (L3), MkaliMitinis3_9 (L2), Molivier_9 (L2), Moostard_10 (L3), MsGreen_10 (L3), Nabi_11 (BD1), Nanodon_13 (BD1), Nerdos_11 (BD1), Netyap_9 (L2), Neville_17 (DU2), Nicholas_10 (L3), Nicholasp3_9 (L2), Nishikigoi_11 (BD2), Octobien14_18 (DU1), OhShagHennessy_9 (L1), Oliynyk_12 (BD1), Omar_12 (BD2), OverPar_9 (L2), Ozzie_11 (BD1), OzzyJ_12 (BD1), PYPDinur_9 (L4), Pablito_11 (BD2), Paedore_11 (BD2), Paolo_13 (BD2), Pavo_12 (BD3), Phettuccine_11 (BD1), Poochiewood_9 (L1), Provolone_12 (BD3), Puginator_13 (BD2), Quby_9 (L4), R4_11 (BD2), Rabbitrun_19 (DU2), Rana_11 (BD1), Red305_10 (L3), RedBear_13 (BD1), Rose5_9 (L1), Rossetti_9 (L2), Rumpelstiltskin_9 (L2), Rusticus_12 (BD1), Saftant_11 (BD3), Samty_10 (L3), SarahRose_11 (BD1), Sarshaun_9 (L2), Sephiroth_18 (DU1), Sheng711_9 (L4), Silverleaf_9 (L1), Snenia_10 (L3), Snorlax_11 (BD1), SoJulia_9 (L2), Soap141_9 (L2), South40_12 (BD1), Speedwell_16 (BD3), SqueakyClean_12 (BD2), Sudan_11 (BD3), SunkenRoot_11 (BD3), SunsetPointe_11 (BD1), Superstar_13 (BD2), Syleon_18 (DU1), TagePhighter_12 (BD1), Tefunt_11 (BD2), Thestral_12 (BD2), TinaBelcher_11 (BD2), Toma_11 (BD1), Tourach_9 (L2), Trax_17 (DU2), TriFive_10 (L3), Triste_11 (BD1), Triumph_13 (BD2), TuanPN_11 (BD1), Tyson_9 (L1), Underpass_9 (L2), Unstoppable_11 (BD1), Urza_11 (BD6), Vanseggelen_14 (BD3), Verabelle_12 (BD3), Verse_11 (BD3), Vetrix_9 (L2), VieEnRose_11 (BD6), Wamburgrxpress_9 (L1), Werner_11 (BD1), Whatever_11 (BD1), Whirlwind_11 (L3), Wigglewiggle_9 (L2), Wildcat_31 (V), Wilder_9 (L2), Winky_9 (L2), Wyatt2_9 (L1), Yasdnil_11 (BD1), Yosif_12 (BD3), Zainub_13 (BD2), Zakai_9 (L2), ZamZam_11 (BD3), Zaria_9 (L1), Zemlya_12 (BD1), ZhongYanYuan_8 (L2), phiCAM_12 (BD3), phiHau3_13 (BD4),

Start 23:
• Found in 235 of 606 (38.8%) of genes in pham
• Manual Annotations of this start: 221 of 546
• Called 99.6% of time when present
• Phage (with cluster) where this start called: AFIS_17 (A1), Abbyshoes_18 (A1), Abrogate_180 (A1), Acme_19 (A1), Adahisdi_18 (A1), Aeneas_19 (A1), Agaliana_17 (A1), Ajay_17 (A1), Aldrich_18 (A1), Alsfro_21 (A1), Altman_19 (A1), Alvin_18 (A1),

Anglerfish_18 (A1), Applejack_17 (A1), Arcanine_18 (A1), Arlo_16 (A1), Ashballer_16 (A1), Atkinbua_18 (A1), BPBiebs31_18 (A1), BaconJack_19 (A1), Barriga_17 (A1), BarrowTuph_16 (A1), Beatrix_16 (A1), BeesKnees_18 (A1), Bethlehem_17 (A1), Bexan_16 (A1), Big3_17 (A1), BigMau_19 (A1), BigPaolini_18 (A1), Bigchungi_17 (A1), Bigfoot_16 (A1), Bircsak_17 (A1), Blackflame_17 (A1), Blesser_17 (A1), BluSpix_17 (A1), Blue_17 (A1), Bob3_16 (A1), Bones_17 (A1), Briton15_19 (A1), Bruns_16 (A1), Burton_18 (A1), Buttons_18 (A1), CactusRose_16 (A1), Carlyle_19 (A1), CartmannCramer_17 (A1), CatBus_18 (A1), Chanagan_16 (A1), ChristmasHams_17 (A1), Ciao_17 (A1), ConceptII_18 (A1), Corvo_17 (A1), Crispicous1_16 (A1), Cueylyss_17 (A1), DD5_18 (A1), Dexes_18 (A1), DirtDevil_18 (A1), Doom_18 (A1), DrFeelGood_16 (A1), DreamCatcher_20 (A1), Dreamboat_18 (A1), Dulcie_16 (A1), Dussy_18 (A1), Dynamix_18 (A1), Edtherson_18 (A1), EnzoK_18 (A1), Espresso_17 (A1), Euphoria_17 (A1), Eyeball_17 (A1), Fajezeel_19 (A1), Fascinus_16 (A1), Fenn_18 (A1), Forsytheast_16 (A1), Francis47_17 (A1), Froghopper_18 (A1), Fushigi_18 (A1), GMonster_16 (A1), Gachnar_17 (A1), GageAP_19 (A1), Gandalf20_18 (A1), Gompeii16_17 (A1), Graduation_19 (A1), GrecoEtereo_18 (A1), Greg_19 (A1), GroundGoblin_18 (A1), Gyzlar_19 (A1), Hami1_19 (A1), HanShotFirst_17 (A1), HarryOW_18 (A1), HermioneGrange_17 (A1), Homines_17 (A1), Hope4ever_17 (A1), ILeeKay_19 (A1), Ichabod_18 (A1), IgnatiusPatJac_16 (A1), Inyanga_16 (A1), Iqorha_16 (A1), JC27_19 (A1), JackSparrow_18 (A1), Jasper_18 (A1), Jerm2_18 (A1), Jorgensen_17 (A1), JuliaChild_19 (A1), KBG_18 (A1), KSSJEB_17 (A1), Kanely_18 (A1), Kenmech_20 (A1), KikiBouba_19 (A1), Killigrew_15 (A1), KyMonks1A_19 (A1), Lamina13_17 (A1), Lesedi_16 (A1), Levia_17 (A1), Licorice_19 (A1), LilBib_18 (A1), Lockley_17 (A1), Lopton_18 (A1), LunarLander_17 (A1), MPlant7149_16 (A1), Magnar_17 (A1), Magnito_16 (A1), Makemake_17 (A1), Manatee_18 (A1), Marcell_17 (A1), Marchy_16 (A1), Marco3_17 (A1), Marge_18 (A1), Maroc7_16 (A1), Marsha_17 (A1), MaryBeth_17 (A1), McGuire_18 (A1), McSinger_18 (A1), MetalQZJ_17 (A1), Michley_17 (A1), MilleFeuille_16 (A1), Mkhuseli_18 (A1), Molly_18 (A1), Monet_19 (A1), Moose_16 (A1), MrGordo_17 (A1), Mryolo_16 (A1), Mule_17 (A1), Museum_19 (A1), NEHalo_17 (A1), Naira_18 (A1), Nerujay_18 (A1), Nhonho_17 (A1), Niza_19 (A1), Norz_19 (A1), Noxious_19 (A1), Ohno789_17 (A1), Oogway_16 (A1), PSullivan_19 (A1), PacerPaul_17 (A1), Papez_19 (A1), Paphu_16 (A1), Paraselene_16 (A1), Pari_18 (A1), Parliament_16 (A1), PascalRango_16 (A1), PattyP_19 (A1), Payneful_17 (A1), Pelly_18 (A1), Pepe_18 (A1), Perseus_18 (A1), Peterson_20 (A1), Petp2012_19 (A1), Petruchio_17 (A1), PherrisBueller_18 (A1), PhineBark_16 (A1), Phlippers_16 (A1), PhrostyMug_17 (A1), PinkPlastic_16 (A1), Pinto_19 (A1), Pippin_19 (A1), Pita2_19 (A1), PowerRanger_17 (A1), ProMouse_18 (A1), Puppet_17 (A1), QTRlifeCrisis_17 (A1), Raid_17 (A1), Rajelicia_17 (A1), Rhynn_17 (A1), RidgeCB_17 (A1), Ringer_17 (A1), Rohr_18 (A1), Rubeus_18 (A1), Rufus_18 (A1), Rutherferd_19 (A1), STLscum_18 (A1), Sagefire_18 (A1), Sandaddy_16 (A1), Sanya_17 (A1), SarFire_17 (A1), Scowl_18 (A1), Seabiscuit_19 (A1), Seanderson_18 (A1), ShortQueendom_17 (A1), Sibs6_19 (A1), SkiPole_19 (A1), Slagathor_18 (A1), Smairt_18 (A1), Smeagol_19 (A1), Snazzy_15 (A1), Solon_17 (A1), Sorpresa_17 (A1), SpikeBT_19 (A1), Squee_18 (A1), StewieG_16 (A1), StrongArm_16 (A1), Sumter_16 (A1), Sunshine924_16 (A1), SwissCheese_17 (A1), Switzer_18 (A1), Swole_19 (A1), Tasp14_18 (A1), Teodoridan_15 (A1), TheloniousMonk_19 (A1), Thor_17 (A1), Topgun_17 (A1), Tote_19 (A1), Traft412_19 (A1), Treddle_19 (A1), Tripl3t_18 (A1), Trouble_17 (A1), Turj99_16 (A1), TwoPeat_18 (A1), U2_17 (A1), Violet_16 (A1), Watermelon_19 (A1), Wheeler_17 (A1), Wilkins_17 (A1), Zeeculate_16 (A1), Zephyr_17 (A1), Zeuska_18 (A1),

Start 29:

• Found in 282 of 606 (46.5%) of genes in pham
• Manual Annotations of this start: 3 of 546
• Called 1.1% of time when present
• Phage (with cluster) where this start called: Hermia_19 (A1), LeBron_9 (L1), UPIE_9 (L1),

Start 32:
• Found in 134 of 606 (22.1%) of genes in pham
• Manual Annotations of this start: 1 of 546
• Called 0.7% of time when present
• Phage (with cluster) where this start called: Lewan_9 (L2),

Start 33:
• Found in 4 of 606 (0.7%) of genes in pham
• Manual Annotations of this start: 1 of 546
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Iter_8 (AZ1),

Start 55:
• Found in 3 of 606 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 546
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Footloose_7 (singleton),

Summary by clusters:

There are 27 clusters represented in this pham: singleton, L1, M1, M3, M2, A1, BD4, BD6, BD1, BD3, BD2, DU1, DU2, EH, L4, L5, L2, L3, V, AZ, AZ1, AZ2, AZ3, AZ4, AZ5, AZ6, AZ7,

Info for manual annotations of cluster A1:
•Start number 23 was manually annotated 221 times for cluster A1.
•Start number 29 was manually annotated 1 time for cluster A1.

Info for manual annotations of cluster AZ:
•Start number 14 was manually annotated 1 time for cluster AZ.

Info for manual annotations of cluster AZ1:
•Start number 1 was manually annotated 1 time for cluster AZ1.
•Start number 14 was manually annotated 47 times for cluster AZ1.
•Start number 33 was manually annotated 1 time for cluster AZ1.

Info for manual annotations of cluster AZ2:
•Start number 14 was manually annotated 4 times for cluster AZ2.

Info for manual annotations of cluster AZ3:
•Start number 14 was manually annotated 2 times for cluster AZ3.

Info for manual annotations of cluster AZ4:
•Start number 14 was manually annotated 8 times for cluster AZ4.

Info for manual annotations of cluster AZ5:
•Start number 14 was manually annotated 16 times for cluster AZ5.

Info for manual annotations of cluster AZ6:
•Start number 14 was manually annotated 1 time for cluster AZ6.

Info for manual annotations of cluster BD1:
•Start number 6 was manually annotated 1 time for cluster BD1.
•Start number 22 was manually annotated 54 times for cluster BD1.

Info for manual annotations of cluster BD2:
•Start number 4 was manually annotated 1 time for cluster BD2.
•Start number 5 was manually annotated 1 time for cluster BD2.
•Start number 22 was manually annotated 31 times for cluster BD2.

Info for manual annotations of cluster BD3:
•Start number 22 was manually annotated 16 times for cluster BD3.

Info for manual annotations of cluster BD4:
•Start number 22 was manually annotated 3 times for cluster BD4.

Info for manual annotations of cluster BD6:
•Start number 22 was manually annotated 4 times for cluster BD6.

Info for manual annotations of cluster DU1:
•Start number 22 was manually annotated 4 times for cluster DU1.

Info for manual annotations of cluster DU2:
•Start number 22 was manually annotated 4 times for cluster DU2.

Info for manual annotations of cluster EH:
•Start number 14 was manually annotated 14 times for cluster EH.
•Start number 16 was manually annotated 1 time for cluster EH.

Info for manual annotations of cluster L1:
•Start number 22 was manually annotated 17 times for cluster L1.
•Start number 29 was manually annotated 2 times for cluster L1.

Info for manual annotations of cluster L2:
•Start number 22 was manually annotated 31 times for cluster L2.
•Start number 32 was manually annotated 1 time for cluster L2.

Info for manual annotations of cluster L3:
•Start number 22 was manually annotated 19 times for cluster L3.

Info for manual annotations of cluster L4:
•Start number 22 was manually annotated 6 times for cluster L4.

Info for manual annotations of cluster L5:
•Start number 22 was manually annotated 2 times for cluster L5.

Info for manual annotations of cluster M1:
•Start number 17 was manually annotated 15 times for cluster M1.

Info for manual annotations of cluster M2:
•Start number 17 was manually annotated 6 times for cluster M2.

Info for manual annotations of cluster M3:
•Start number 17 was manually annotated 1 time for cluster M3.

Info for manual annotations of cluster V:
•Start number 22 was manually annotated 5 times for cluster V.

Gene Information:

Gene: AEgle_8 Start: 7858, Stop: 8265, Start Num: 14
Candidate Starts for AEgle_8:
(Start: 14 @7858 has 93 MA's), (60, 8050), (67, 8095),

Gene: AFIS_17 Start: 12820, Stop: 13269, Start Num: 23
Candidate Starts for AFIS_17:
(Start: 23 @12820 has 221 MA's), (Start: 29 @12844 has 3 MA's), (92, 13156), (117, 13231),

Gene: AGrandiflora_8 Start: 7839, Stop: 8246, Start Num: 14
Candidate Starts for AGrandiflora_8:
(Start: 14 @7839 has 93 MA's), (60, 8031),

Gene: Aaronocolus_11 Start: 8395, Stop: 8847, Start Num: 22
Candidate Starts for Aaronocolus_11:
(10, 8356), (Start: 22 @8395 has 198 MA's), (66, 8587), (96, 8743),

Gene: Abbyshoes_18 Start: 13206, Stop: 13655, Start Num: 23
Candidate Starts for Abbyshoes_18:
(Start: 23 @13206 has 221 MA's), (Start: 29 @13230 has 3 MA's), (92, 13542), (117, 13617),

Gene: Abrogate_180 Start: 13578, Stop: 14027, Start Num: 23
Candidate Starts for Abrogate_180:
(Start: 23 @13578 has 221 MA's), (Start: 29 @13602 has 3 MA's), (92, 13914), (117, 13989),

Gene: AceofSpades_7 Start: 6184, Stop: 6585, Start Num: 14
Candidate Starts for AceofSpades_7:
(Start: 14 @6184 has 93 MA's), (67, 6421),

Gene: Acme_19 Start: 13256, Stop: 13705, Start Num: 23
Candidate Starts for Acme_19:
(Start: 23 @13256 has 221 MA's), (92, 13592), (117, 13667),

Gene: Acquire49_9 Start: 7246, Stop: 7713, Start Num: 22
Candidate Starts for Acquire49_9:
(Start: 22 @7246 has 198 MA's), (Start: 29 @7273 has 3 MA's), (Start: 32 @7285 has 1 MA's), (42, 7330), (45, 7342), (46, 7360), (48, 7363), (57, 7411), (61, 7423), (62, 7426), (72, 7480), (83, 7540), (94, 7585), (121, 7696), (123, 7699), (125, 7702),

Gene: Adahisdi_18 Start: 13138, Stop: 13587, Start Num: 23
Candidate Starts for Adahisdi_18:

(Start: 23 @13138 has 221 MA's), (92, 13474), (117, 13549),

Gene: Adolin_8 Start: 7854, Stop: 8258, Start Num: 14
Candidate Starts for Adolin_8:
(Start: 14 @7854 has 93 MA's), (56, 8034),

Gene: Adumb2043_8 Start: 7857, Stop: 8264, Start Num: 14
Candidate Starts for Adumb2043_8:
(Start: 14 @7857 has 93 MA's), (60, 8049), (67, 8094),

Gene: Aegeus_9 Start: 6856, Stop: 7332, Start Num: 22
Candidate Starts for Aegeus_9:
(Start: 22 @6856 has 198 MA's), (25, 6865), (31, 6892), (Start: 32 @6895 has 1 MA's), (34, 6901), (43, 6943), (44, 6949), (45, 6952), (60, 7027), (68, 7075), (85, 7156), (90, 7183), (94, 7192), (109, 7252),

Gene: Aeneas_19 Start: 13246, Stop: 13695, Start Num: 23
Candidate Starts for Aeneas_19:
(Start: 23 @13246 has 221 MA's), (Start: 29 @13270 has 3 MA's), (92, 13582), (117, 13657),

Gene: Agaliana_17 Start: 13198, Stop: 13647, Start Num: 23
Candidate Starts for Agaliana_17:
(Start: 23 @13198 has 221 MA's), (Start: 29 @13222 has 3 MA's), (92, 13534), (117, 13609),

Gene: AinMach_8 Start: 7070, Stop: 7495, Start Num: 14
Candidate Starts for AinMach_8:
(Start: 1 @7010 has 1 MA's), (Start: 14 @7070 has 93 MA's), (40, 7163), (53, 7217), (60, 7262), (78, 7361), (105, 7481),

Gene: Ajay_17 Start: 12970, Stop: 13419, Start Num: 23
Candidate Starts for Ajay_17:
(Start: 23 @12970 has 221 MA's), (Start: 29 @12994 has 3 MA's), (92, 13306), (117, 13381),

Gene: Aldrich_18 Start: 13747, Stop: 14196, Start Num: 23
Candidate Starts for Aldrich_18:
(Start: 23 @13747 has 221 MA's), (Start: 29 @13771 has 3 MA's), (92, 14083), (117, 14158),

Gene: Alsaber_12 Start: 8454, Stop: 8915, Start Num: 22
Candidate Starts for Alsaber_12:
(Start: 22 @8454 has 198 MA's), (28, 8469), (66, 8643), (96, 8799), (127, 8901),

Gene: Alsfro_21 Start: 13690, Stop: 14139, Start Num: 23
Candidate Starts for Alsfro_21:
(Start: 23 @13690 has 221 MA's), (Start: 29 @13714 has 3 MA's), (92, 14026), (117, 14101),

Gene: Altman_19 Start: 13735, Stop: 14184, Start Num: 23
Candidate Starts for Altman_19:
(Start: 23 @13735 has 221 MA's), (Start: 29 @13759 has 3 MA's), (92, 14071), (117, 14146),

Gene: Alvin_18 Start: 13456, Stop: 13905, Start Num: 23
Candidate Starts for Alvin_18:
(Start: 23 @13456 has 221 MA's), (Start: 29 @13480 has 3 MA's), (92, 13792), (117, 13867),

Gene: Alvy_13 Start: 8321, Stop: 8794, Start Num: 22

Candidate Starts for Alvy_13:
(Start: 4 @8255 has 1 MA's), (7, 8270), (9, 8276), (Start: 14 @8300 has 93 MA's), (Start: 22 @8321 has 198 MA's), (49, 8435), (66, 8516), (127, 8780),

Gene: Amela_11 Start: 8566, Stop: 9024, Start Num: 22
Candidate Starts for Amela_11:
(Start: 22 @8566 has 198 MA's), (36, 8629), (56, 8716), (66, 8755), (96, 8911), (126, 8995), (128, 9019),

Gene: Amethyst_11 Start: 8131, Stop: 8607, Start Num: 22
Candidate Starts for Amethyst_11:
(Start: 22 @8131 has 198 MA's), (43, 8218), (66, 8329),

Gene: Amploria_8 Start: 7857, Stop: 8264, Start Num: 14
Candidate Starts for Amploria_8:
(Start: 14 @7857 has 93 MA's), (60, 8049), (67, 8094),

Gene: Amyev_8 Start: 7873, Stop: 8280, Start Num: 14
Candidate Starts for Amyev_8:
(Start: 14 @7873 has 93 MA's), (60, 8065), (67, 8110),

Gene: Andris_11 Start: 8194, Stop: 8664, Start Num: 22
Candidate Starts for Andris_11:
(8, 8146), (Start: 22 @8194 has 198 MA's), (66, 8392), (80, 8479), (86, 8506), (103, 8584), (114, 8599),

Gene: Anglerfish_18 Start: 14118, Stop: 14567, Start Num: 23
Candidate Starts for Anglerfish_18:
(Start: 23 @14118 has 221 MA's), (Start: 29 @14142 has 3 MA's), (92, 14454), (117, 14529),

Gene: Animus_12 Start: 8547, Stop: 9035, Start Num: 22
Candidate Starts for Animus_12:
(3, 8478), (Start: 22 @8547 has 198 MA's), (47, 8658), (54, 8688), (66, 8745), (86, 8859), (96, 8901), (98, 8907), (119, 8976),

Gene: Applejack_17 Start: 12895, Stop: 13344, Start Num: 23
Candidate Starts for Applejack_17:
(Start: 23 @12895 has 221 MA's), (Start: 29 @12919 has 3 MA's), (92, 13231), (117, 13306),

Gene: Appletree2_9 Start: 7220, Stop: 7687, Start Num: 22
Candidate Starts for Appletree2_9:
(Start: 22 @7220 has 198 MA's), (Start: 29 @7247 has 3 MA's), (Start: 32 @7259 has 1 MA's), (42, 7304), (45, 7316), (46, 7334), (48, 7337), (57, 7385), (61, 7397), (62, 7400), (72, 7454), (83, 7514), (94, 7559), (121, 7670), (123, 7673), (125, 7676),

Gene: Arcanine_18 Start: 13137, Stop: 13586, Start Num: 23
Candidate Starts for Arcanine_18:
(Start: 23 @13137 has 221 MA's), (Start: 29 @13161 has 3 MA's), (92, 13473), (117, 13548),

Gene: Archie_9 Start: 7204, Stop: 7668, Start Num: 22
Candidate Starts for Archie_9:
(Start: 22 @7204 has 198 MA's), (Start: 29 @7231 has 3 MA's), (Start: 32 @7243 has 1 MA's), (35, 7252), (46, 7318), (48, 7321), (57, 7369), (61, 7381), (62, 7384), (72, 7438), (83, 7498), (90, 7534), (94, 7543), (113, 7615), (123, 7654), (125, 7657),

Gene: Arlo_16 Start: 12516, Stop: 12965, Start Num: 23
Candidate Starts for Arlo_16:
(Start: 23 @12516 has 221 MA's), (Start: 29 @12540 has 3 MA's), (92, 12852), (117, 12927),

Gene: Asa16_8 Start: 7826, Stop: 8233, Start Num: 14
Candidate Starts for Asa16_8:
(Start: 14 @7826 has 93 MA's), (59, 8015), (60, 8018), (62, 8024), (67, 8063),

Gene: Ascela_8 Start: 7852, Stop: 8259, Start Num: 14
Candidate Starts for Ascela_8:
(Start: 14 @7852 has 93 MA's), (Start: 33 @7909 has 1 MA's), (60, 8044), (67, 8089),

Gene: Ashballer_16 Start: 12899, Stop: 13348, Start Num: 23
Candidate Starts for Ashballer_16:
(Start: 23 @12899 has 221 MA's), (Start: 29 @12923 has 3 MA's), (92, 13235), (117, 13310),

Gene: Ashes_8 Start: 7343, Stop: 7810, Start Num: 14
Candidate Starts for Ashes_8:
(2, 7292), (Start: 14 @7343 has 93 MA's), (58, 7535), (74, 7616),

Gene: Asten_11 Start: 8357, Stop: 8806, Start Num: 22
Candidate Starts for Asten_11:
(Start: 6 @8300 has 1 MA's), (Start: 22 @8357 has 198 MA's), (66, 8546), (114, 8750),

Gene: Atkinbua_18 Start: 12870, Stop: 13319, Start Num: 23
Candidate Starts for Atkinbua_18:
(Start: 23 @12870 has 221 MA's), (Start: 29 @12894 has 3 MA's), (92, 13206), (117, 13281),

Gene: Attoomi_8 Start: 6589, Stop: 6960, Start Num: 22
Candidate Starts for Attoomi_8:
(Start: 22 @6589 has 198 MA's), (25, 6598), (28, 6607), (57, 6751), (79, 6856), (84, 6883), (99, 6934),

Gene: Auspice_19 Start: 11031, Stop: 11513, Start Num: 17
Candidate Starts for Auspice_19:
(Start: 17 @11031 has 22 MA's), (Start: 32 @11082 has 1 MA's), (57, 11211), (101, 11415), (111, 11439),

Gene: AvadaKedavra_9 Start: 7246, Stop: 7713, Start Num: 22
Candidate Starts for AvadaKedavra_9:
(Start: 22 @7246 has 198 MA's), (Start: 29 @7273 has 3 MA's), (Start: 32 @7285 has 1 MA's), (42, 7330), (45, 7342), (46, 7360), (48, 7363), (57, 7411), (61, 7423), (62, 7426), (72, 7480), (83, 7540), (94, 7585), (121, 7696), (123, 7699), (125, 7702),

Gene: Axiom_12 Start: 8226, Stop: 8696, Start Num: 22
Candidate Starts for Axiom_12:
(Start: 22 @8226 has 198 MA's), (66, 8424), (86, 8538), (103, 8616),

Gene: Aziz_23 Start: 11594, Stop: 12076, Start Num: 17
Candidate Starts for Aziz_23:
(Start: 17 @11594 has 22 MA's), (Start: 32 @11645 has 1 MA's), (44, 11699), (57, 11774), (101, 11978), (111, 12002),

Gene: Azrael100_30 Start: 14162, Stop: 14638, Start Num: 22
Candidate Starts for Azrael100_30:
(Start: 22 @14162 has 198 MA's), (26, 14174), (39, 14246), (44, 14264), (48, 14288), (67, 14387), (70, 14396), (76, 14426), (97, 14513), (109, 14558), (115, 14585), (118, 14591),

Gene: BPBiebs31_18 Start: 13162, Stop: 13611, Start Num: 23
Candidate Starts for BPBiebs31_18:
(Start: 23 @13162 has 221 MA's), (Start: 29 @13186 has 3 MA's), (92, 13498), (117, 13573),

Gene: BaconJack_19 Start: 13237, Stop: 13686, Start Num: 23
Candidate Starts for BaconJack_19:
(Start: 23 @13237 has 221 MA's), (Start: 29 @13261 has 3 MA's), (92, 13573), (117, 13648),

Gene: Baoshan_8 Start: 7059, Stop: 7523, Start Num: 22
Candidate Starts for Baoshan_8:
(Start: 22 @7059 has 198 MA's), (Start: 29 @7086 has 3 MA's), (Start: 32 @7098 has 1 MA's), (35, 7107), (46, 7173), (48, 7176), (57, 7224), (61, 7236), (62, 7239), (72, 7293), (83, 7353), (90, 7389), (94, 7398), (113, 7470), (123, 7509), (125, 7512),

Gene: Barnstormer_7 Start: 7106, Stop: 7585, Start Num: 14
Candidate Starts for Barnstormer_7:
(13, 7100), (Start: 14 @7106 has 93 MA's), (120, 7577),

Gene: Barriga_17 Start: 12765, Stop: 13214, Start Num: 23
Candidate Starts for Barriga_17:
(Start: 23 @12765 has 221 MA's), (Start: 29 @12789 has 3 MA's), (92, 13101), (117, 13176),

Gene: BarrowTuph_16 Start: 12810, Stop: 13259, Start Num: 23
Candidate Starts for BarrowTuph_16:
(Start: 23 @12810 has 221 MA's), (Start: 29 @12834 has 3 MA's), (92, 13146), (117, 13221),

Gene: BarryBee_13 Start: 8364, Stop: 8813, Start Num: 22
Candidate Starts for BarryBee_13:
(Start: 22 @8364 has 198 MA's), (66, 8553), (114, 8757),

Gene: BartholomewSD_13 Start: 8321, Stop: 8794, Start Num: 22
Candidate Starts for BartholomewSD_13:
(Start: 4 @8255 has 1 MA's), (7, 8270), (9, 8276), (Start: 14 @8300 has 93 MA's), (Start: 22 @8321 has 198 MA's), (49, 8435), (66, 8516), (127, 8780),

Gene: Baudelaire_9 Start: 6856, Stop: 7332, Start Num: 22
Candidate Starts for Baudelaire_9:
(Start: 22 @6856 has 198 MA's), (25, 6865), (31, 6892), (Start: 32 @6895 has 1 MA's), (34, 6901), (43, 6943), (44, 6949), (45, 6952), (60, 7027), (68, 7075), (85, 7156), (90, 7183), (94, 7192), (109, 7252),

Gene: Bazzle_9 Start: 7180, Stop: 7644, Start Num: 22
Candidate Starts for Bazzle_9:
(Start: 22 @7180 has 198 MA's), (Start: 29 @7207 has 3 MA's), (Start: 32 @7219 has 1 MA's), (46, 7294), (48, 7297), (57, 7345), (61, 7357), (62, 7360), (72, 7414), (90, 7510), (94, 7519), (113, 7591), (123, 7630), (125, 7633),

Gene: BeardedLady_12 Start: 8642, Stop: 9094, Start Num: 22
Candidate Starts for BeardedLady_12:

(10, 8603), (Start: 22 @8642 has 198 MA's), (66, 8834), (96, 8990),

Gene: Beatrix_16 Start: 13614, Stop: 14063, Start Num: 23
Candidate Starts for Beatrix_16:
(Start: 23 @13614 has 221 MA's), (Start: 29 @13638 has 3 MA's), (92, 13950), (117, 14025),

Gene: Beaupre_8 Start: 7344, Stop: 7811, Start Num: 14
Candidate Starts for Beaupre_8:
(2, 7293), (Start: 14 @7344 has 93 MA's), (58, 7536), (74, 7617),

Gene: BeesKnees_18 Start: 12955, Stop: 13404, Start Num: 23
Candidate Starts for BeesKnees_18:
(Start: 23 @12955 has 221 MA's), (92, 13291), (117, 13366),

Gene: Bellis_10 Start: 7367, Stop: 7843, Start Num: 22
Candidate Starts for Bellis_10:
(Start: 22 @7367 has 198 MA's), (Start: 32 @7406 has 1 MA's), (42, 7457), (46, 7487), (48, 7490), (57, 7538), (60, 7547), (61, 7550), (62, 7553), (72, 7607), (74, 7622), (83, 7667), (90, 7703),

Gene: Berrie_8 Start: 7831, Stop: 8238, Start Num: 14
Candidate Starts for Berrie_8:
(Start: 14 @7831 has 93 MA's), (Start: 33 @7888 has 1 MA's), (60, 8023), (67, 8068),

Gene: Bethlehem_17 Start: 14192, Stop: 14641, Start Num: 23
Candidate Starts for Bethlehem_17:
(Start: 23 @14192 has 221 MA's), (Start: 29 @14216 has 3 MA's), (92, 14528), (117, 14603),

Gene: Bexan_16 Start: 13900, Stop: 14349, Start Num: 23
Candidate Starts for Bexan_16:
(Start: 23 @13900 has 221 MA's), (Start: 29 @13924 has 3 MA's), (92, 14236), (117, 14311),

Gene: Big3_17 Start: 13546, Stop: 13995, Start Num: 23
Candidate Starts for Big3_17:
(Start: 23 @13546 has 221 MA's), (Start: 29 @13570 has 3 MA's), (117, 13957),

Gene: BigCheese_9 Start: 7231, Stop: 7695, Start Num: 22
Candidate Starts for BigCheese_9:
(Start: 22 @7231 has 198 MA's), (Start: 29 @7258 has 3 MA's), (Start: 32 @7270 has 1 MA's), (46, 7345), (48, 7348), (57, 7396), (61, 7408), (62, 7411), (72, 7465), (94, 7570), (113, 7642), (123, 7681), (125, 7684),

Gene: BigMau_19 Start: 13123, Stop: 13572, Start Num: 23
Candidate Starts for BigMau_19:
(Start: 23 @13123 has 221 MA's), (Start: 29 @13147 has 3 MA's), (92, 13459), (117, 13534),

Gene: BigPaolini_18 Start: 13549, Stop: 13998, Start Num: 23
Candidate Starts for BigPaolini_18:
(Start: 23 @13549 has 221 MA's), (Start: 29 @13573 has 3 MA's), (92, 13885), (117, 13960),

Gene: Bigchungi_17 Start: 12923, Stop: 13372, Start Num: 23
Candidate Starts for Bigchungi_17:
(Start: 23 @12923 has 221 MA's), (Start: 29 @12947 has 3 MA's), (92, 13259), (117, 13334),

Gene: Bigfoot_16 Start: 12651, Stop: 13100, Start Num: 23
Candidate Starts for Bigfoot_16:
(Start: 23 @12651 has 221 MA's), (Start: 29 @12675 has 3 MA's), (92, 12987), (117, 13062),

Gene: Bircsak_17 Start: 13409, Stop: 13858, Start Num: 23
Candidate Starts for Bircsak_17:
(Start: 23 @13409 has 221 MA's), (Start: 29 @13433 has 3 MA's), (92, 13745), (117, 13820),

Gene: Blackflame_17 Start: 12932, Stop: 13381, Start Num: 23
Candidate Starts for Blackflame_17:
(Start: 23 @12932 has 221 MA's), (Start: 29 @12956 has 3 MA's), (92, 13268), (117, 13343),

Gene: Blesser_17 Start: 13221, Stop: 13670, Start Num: 23
Candidate Starts for Blesser_17:
(Start: 23 @13221 has 221 MA's), (Start: 29 @13245 has 3 MA's), (92, 13557), (117, 13632),

Gene: BluSpix_17 Start: 12911, Stop: 13360, Start Num: 23
Candidate Starts for BluSpix_17:
(Start: 23 @12911 has 221 MA's), (Start: 29 @12935 has 3 MA's), (92, 13247), (117, 13322),

Gene: Blue_17 Start: 13014, Stop: 13463, Start Num: 23
Candidate Starts for Blue_17:
(Start: 23 @13014 has 221 MA's), (Start: 29 @13038 has 3 MA's), (92, 13350), (117, 13425),

Gene: Bob3_16 Start: 12463, Stop: 12912, Start Num: 23
Candidate Starts for Bob3_16:
(Start: 23 @12463 has 221 MA's), (Start: 29 @12487 has 3 MA's), (92, 12799), (117, 12874),

Gene: BobsGarage_9 Start: 7231, Stop: 7695, Start Num: 22
Candidate Starts for BobsGarage_9:
(Start: 22 @7231 has 198 MA's), (Start: 29 @7258 has 3 MA's), (Start: 32 @7270 has 1 MA's), (46, 7345), (48, 7348), (57, 7396), (61, 7408), (62, 7411), (72, 7465), (94, 7570), (113, 7642), (123, 7681), (125, 7684),

Gene: Bones_17 Start: 12652, Stop: 13101, Start Num: 23
Candidate Starts for Bones_17:
(Start: 23 @12652 has 221 MA's), (92, 12988), (117, 13063),

Gene: Bongo_19 Start: 11031, Stop: 11513, Start Num: 17
Candidate Starts for Bongo_19:
(Start: 17 @11031 has 22 MA's), (Start: 32 @11082 has 1 MA's), (57, 11211), (101, 11415), (111, 11439),

Gene: BourbonZero_9 Start: 7373, Stop: 7849, Start Num: 22
Candidate Starts for BourbonZero_9:
(Start: 22 @7373 has 198 MA's), (Start: 32 @7412 has 1 MA's), (42, 7463), (46, 7493), (48, 7496), (57, 7544), (58, 7547), (61, 7556), (72, 7613), (74, 7628), (83, 7673), (90, 7709), (114, 7796),

Gene: Bovely_11 Start: 8401, Stop: 8853, Start Num: 22
Candidate Starts for Bovely_11:
(10, 8362), (Start: 22 @8401 has 198 MA's), (66, 8593), (96, 8749),

Gene: Bowden_12 Start: 8235, Stop: 8708, Start Num: 22

Candidate Starts for Bowden_12:
(Start: 4 @8169 has 1 MA's), (7, 8184), (9, 8190), (Start: 14 @8214 has 93 MA's), (Start: 22 @8235 has 198 MA's), (49, 8349), (66, 8430), (100, 8610), (127, 8694),

Gene: BrainDrainer_10 Start: 7050, Stop: 7514, Start Num: 22
Candidate Starts for BrainDrainer_10:
(Start: 22 @7050 has 198 MA's), (Start: 32 @7089 has 1 MA's), (35, 7098), (48, 7167), (52, 7179), (57, 7215), (60, 7224), (61, 7227), (62, 7230), (72, 7284), (91, 7383), (94, 7389), (113, 7461), (123, 7500), (125, 7503),

Gene: Brataylor_12 Start: 8367, Stop: 8816, Start Num: 22
Candidate Starts for Brataylor_12:
(10, 8328), (Start: 22 @8367 has 198 MA's), (56, 8517), (57, 8520), (66, 8556),

Gene: Breezona_9 Start: 7231, Stop: 7695, Start Num: 22
Candidate Starts for Breezona_9:
(Start: 22 @7231 has 198 MA's), (Start: 29 @7258 has 3 MA's), (Start: 32 @7270 has 1 MA's), (46, 7345), (48, 7348), (57, 7396), (61, 7408), (62, 7411), (72, 7465), (94, 7570), (113, 7642), (123, 7681), (125, 7684),

Gene: Bricole_19 Start: 11030, Stop: 11512, Start Num: 17
Candidate Starts for Bricole_19:
(Start: 17 @11030 has 22 MA's), (Start: 32 @11081 has 1 MA's), (57, 11210), (101, 11414), (111, 11438),

Gene: Briton15_19 Start: 13212, Stop: 13661, Start Num: 23
Candidate Starts for Briton15_19:
(Start: 23 @13212 has 221 MA's), (Start: 29 @13236 has 3 MA's), (92, 13548), (117, 13623),

Gene: BroPlease_12 Start: 8450, Stop: 8917, Start Num: 22
Candidate Starts for BroPlease_12:
(Start: 22 @8450 has 198 MA's), (56, 8600), (57, 8603), (66, 8639), (80, 8726), (100, 8819), (106, 8837), (127, 8903),

Gene: Bromden_9 Start: 6960, Stop: 7424, Start Num: 22
Candidate Starts for Bromden_9:
(Start: 22 @6960 has 198 MA's), (Start: 32 @6999 has 1 MA's), (35, 7008), (46, 7074), (48, 7077), (52, 7089), (57, 7125), (60, 7134), (61, 7137), (62, 7140), (72, 7194), (91, 7293), (94, 7299), (113, 7371), (123, 7410), (125, 7413),

Gene: Bruns_16 Start: 12835, Stop: 13284, Start Num: 23
Candidate Starts for Bruns_16:
(Start: 23 @12835 has 221 MA's), (Start: 29 @12859 has 3 MA's), (92, 13171), (117, 13246),

Gene: BryanRecycles_12 Start: 8558, Stop: 9010, Start Num: 22
Candidate Starts for BryanRecycles_12:
(10, 8519), (Start: 22 @8558 has 198 MA's), (66, 8750), (96, 8906),

Gene: Burton_18 Start: 13033, Stop: 13482, Start Num: 23
Candidate Starts for Burton_18:
(Start: 23 @13033 has 221 MA's), (Start: 29 @13057 has 3 MA's), (92, 13369), (117, 13444),

Gene: Buttons_18 Start: 13397, Stop: 13846, Start Num: 23

Candidate Starts for Buttons_18:
(Start: 23 @13397 has 221 MA's), (Start: 29 @13421 has 3 MA's), (92, 13733), (117, 13808),

Gene: CactusRose_16 Start: 12650, Stop: 13099, Start Num: 23
Candidate Starts for CactusRose_16:
(Start: 23 @12650 has 221 MA's), (Start: 29 @12674 has 3 MA's), (92, 12986), (117, 13061),

Gene: Caelum_12 Start: 8087, Stop: 8563, Start Num: 22
Candidate Starts for Caelum_12:
(Start: 22 @8087 has 198 MA's), (66, 8285), (127, 8549),

Gene: Caliburn_11 Start: 8375, Stop: 8827, Start Num: 22
Candidate Starts for Caliburn_11:
(10, 8336), (Start: 22 @8375 has 198 MA's), (66, 8567), (96, 8723),

Gene: Calm_9 Start: 7247, Stop: 7714, Start Num: 22
Candidate Starts for Calm_9:
(Start: 22 @7247 has 198 MA's), (Start: 29 @7274 has 3 MA's), (Start: 32 @7286 has 1 MA's), (42, 7331), (45, 7343), (46, 7361), (48, 7364), (57, 7412), (61, 7424), (62, 7427), (72, 7481), (83, 7541), (94, 7586), (121, 7697), (123, 7700), (125, 7703),

Gene: Cappuccino_8 Start: 7252, Stop: 7719, Start Num: 14
Candidate Starts for Cappuccino_8:
(2, 7201), (Start: 14 @7252 has 93 MA's), (58, 7444), (74, 7525), (82, 7576),

Gene: Carlyle_19 Start: 13779, Stop: 14228, Start Num: 23
Candidate Starts for Carlyle_19:
(Start: 23 @13779 has 221 MA's), (Start: 29 @13803 has 3 MA's), (92, 14115), (117, 14190),

Gene: Caron_7 Start: 7134, Stop: 7613, Start Num: 14
Candidate Starts for Caron_7:
(Start: 14 @7134 has 93 MA's), (110, 7554), (120, 7605),

Gene: CartmannCramer_17 Start: 14747, Stop: 15196, Start Num: 23
Candidate Starts for CartmannCramer_17:
(Start: 23 @14747 has 221 MA's), (Start: 29 @14771 has 3 MA's), (92, 15083), (117, 15158),

Gene: Cassia_8 Start: 7956, Stop: 8351, Start Num: 14
Candidate Starts for Cassia_8:
(Start: 14 @7956 has 93 MA's), (60, 8148), (67, 8193),

Gene: CatBus_18 Start: 13939, Stop: 14388, Start Num: 23
Candidate Starts for CatBus_18:
(Start: 23 @13939 has 221 MA's), (Start: 29 @13963 has 3 MA's), (92, 14275), (117, 14350),

Gene: Celery_14 Start: 8413, Stop: 8874, Start Num: 22
Candidate Starts for Celery_14:
(Start: 22 @8413 has 198 MA's), (28, 8428), (66, 8602), (96, 8758), (116, 8818), (126, 8845), (127, 8860),

Gene: Celeste_11 Start: 8365, Stop: 8814, Start Num: 22
Candidate Starts for Celeste_11:
(Start: 6 @8308 has 1 MA's), (Start: 22 @8365 has 198 MA's), (56, 8515), (57, 8518), (66, 8554),

Gene: Celia_11 Start: 8664, Stop: 9149, Start Num: 22
Candidate Starts for Celia_11:
(Start: 22 @8664 has 198 MA's), (57, 8817), (66, 8853), (80, 8940),

Gene: Cen1621_7 Start: 6257, Stop: 6748, Start Num: 14
Candidate Starts for Cen1621_7:
(Start: 14 @6257 has 93 MA's), (116, 6710),

Gene: Chanagan_16 Start: 12489, Stop: 12938, Start Num: 23
Candidate Starts for Chanagan_16:
(Start: 23 @12489 has 221 MA's), (Start: 29 @12513 has 3 MA's), (92, 12825), (117, 12900),

Gene: Chaser_9 Start: 6965, Stop: 7429, Start Num: 22
Candidate Starts for Chaser_9:
(Start: 22 @6965 has 198 MA's), (Start: 32 @7004 has 1 MA's), (35, 7013), (46, 7079), (48, 7082), (52, 7094), (57, 7130), (60, 7139), (61, 7142), (62, 7145), (72, 7199), (91, 7298), (94, 7304), (113, 7376), (123, 7415), (125, 7418),

Gene: ChengKai98_9 Start: 7231, Stop: 7695, Start Num: 22
Candidate Starts for ChengKai98_9:
(Start: 22 @7231 has 198 MA's), (Start: 29 @7258 has 3 MA's), (Start: 32 @7270 has 1 MA's), (46, 7345), (48, 7348), (57, 7396), (61, 7408), (62, 7411), (72, 7465), (94, 7570), (113, 7642), (123, 7681), (125, 7684),

Gene: ChristmasHams_17 Start: 12957, Stop: 13406, Start Num: 23
Candidate Starts for ChristmasHams_17:
(Start: 23 @12957 has 221 MA's), (Start: 29 @12981 has 3 MA's), (92, 13293), (117, 13368),

Gene: Chucky_11 Start: 8365, Stop: 8814, Start Num: 22
Candidate Starts for Chucky_11:
(Start: 22 @8365 has 198 MA's), (66, 8554), (114, 8758),

Gene: ChutneyChips_9 Start: 6953, Stop: 7417, Start Num: 22
Candidate Starts for ChutneyChips_9:
(Start: 22 @6953 has 198 MA's), (Start: 32 @6992 has 1 MA's), (35, 7001), (46, 7067), (48, 7070), (52, 7082), (57, 7118), (60, 7127), (61, 7130), (62, 7133), (72, 7187), (91, 7286), (94, 7292), (113, 7364), (123, 7403), (125, 7406),

Gene: Ciao_17 Start: 12876, Stop: 13325, Start Num: 23
Candidate Starts for Ciao_17:
(Start: 23 @12876 has 221 MA's), (92, 13212), (117, 13287),

Gene: CicholasNage_9 Start: 7247, Stop: 7714, Start Num: 22
Candidate Starts for CicholasNage_9:
(Start: 22 @7247 has 198 MA's), (Start: 29 @7274 has 3 MA's), (Start: 32 @7286 has 1 MA's), (42, 7331), (45, 7343), (46, 7361), (48, 7364), (57, 7412), (61, 7424), (62, 7427), (72, 7481), (83, 7541), (94, 7586), (121, 7697), (123, 7700), (125, 7703),

Gene: Claus_9 Start: 7239, Stop: 7703, Start Num: 22
Candidate Starts for Claus_9:
(Start: 22 @7239 has 198 MA's), (Start: 29 @7266 has 3 MA's), (Start: 32 @7278 has 1 MA's), (35, 7287), (46, 7353), (48, 7356), (57, 7404), (61, 7416), (62, 7419), (72, 7473), (83, 7533), (90, 7569), (94,

7578), (113, 7650), (123, 7689), (125, 7692),

Gene: Clautastrophe_10 Start: 7371, Stop: 7847, Start Num: 22
Candidate Starts for Clautastrophe_10:
(Start: 22 @7371 has 198 MA's), (Start: 32 @7410 has 1 MA's), (42, 7461), (46, 7491), (48, 7494), (57, 7542), (60, 7551), (61, 7554), (62, 7557), (72, 7611), (74, 7626), (83, 7671), (90, 7707),

Gene: Community_9 Start: 8908, Stop: 9315, Start Num: 14
Candidate Starts for Community_9:
(Start: 14 @8908 has 93 MA's), (56, 9088), (59, 9097), (60, 9100), (62, 9106),

Gene: Conan_12 Start: 8164, Stop: 8625, Start Num: 22
Candidate Starts for Conan_12:
(Start: 22 @8164 has 198 MA's), (28, 8179), (66, 8353), (96, 8509), (127, 8611),

Gene: ConceptII_18 Start: 13371, Stop: 13820, Start Num: 23
Candidate Starts for ConceptII_18:
(Start: 23 @13371 has 221 MA's), (92, 13707), (117, 13782),

Gene: Corvo_17 Start: 13368, Stop: 13817, Start Num: 23
Candidate Starts for Corvo_17:
(Start: 23 @13368 has 221 MA's), (Start: 29 @13392 has 3 MA's), (92, 13704), (117, 13779),

Gene: Cosmo_31 Start: 14169, Stop: 14645, Start Num: 22
Candidate Starts for Cosmo_31:
(Start: 22 @14169 has 198 MA's), (26, 14181), (39, 14253), (44, 14271), (48, 14295), (67, 14394), (70, 14403), (76, 14433), (97, 14520), (109, 14565), (115, 14592), (118, 14598),

Gene: Crewmate_9 Start: 8291, Stop: 8698, Start Num: 14
Candidate Starts for Crewmate_9:
(Start: 14 @8291 has 93 MA's), (56, 8471), (60, 8483), (67, 8528),

Gene: Crispicous1_16 Start: 12360, Stop: 12809, Start Num: 23
Candidate Starts for Crispicous1_16:
(Start: 23 @12360 has 221 MA's), (Start: 29 @12384 has 3 MA's), (92, 12696), (117, 12771),

Gene: Crossroads_9 Start: 7231, Stop: 7695, Start Num: 22
Candidate Starts for Crossroads_9:
(Start: 22 @7231 has 198 MA's), (Start: 29 @7258 has 3 MA's), (Start: 32 @7270 has 1 MA's), (46, 7345), (48, 7348), (57, 7396), (61, 7408), (62, 7411), (72, 7465), (94, 7570), (113, 7642), (123, 7681), (125, 7684),

Gene: Cueylyss_17 Start: 13061, Stop: 13510, Start Num: 23
Candidate Starts for Cueylyss_17:
(Start: 23 @13061 has 221 MA's), (92, 13397), (117, 13472),

Gene: Cyan_8 Start: 7843, Stop: 8250, Start Num: 14
Candidate Starts for Cyan_8:
(Start: 14 @7843 has 93 MA's), (60, 8035),

Gene: DD5_18 Start: 13610, Stop: 14059, Start Num: 23
Candidate Starts for DD5_18:
(Start: 23 @13610 has 221 MA's), (Start: 29 @13634 has 3 MA's), (92, 13946), (117, 14021),

Gene: DHan_9 Start: 7175, Stop: 7639, Start Num: 22
Candidate Starts for DHan_9:
(Start: 22 @7175 has 198 MA's), (Start: 29 @7202 has 3 MA's), (Start: 32 @7214 has 1 MA's), (35, 7223), (46, 7289), (48, 7292), (57, 7340), (61, 7352), (62, 7355), (72, 7409), (83, 7469), (90, 7505), (94, 7514), (113, 7586), (123, 7625), (125, 7628),

Gene: DanBing_8 Start: 7058, Stop: 7522, Start Num: 22
Candidate Starts for DanBing_8:
(Start: 22 @7058 has 198 MA's), (Start: 29 @7085 has 3 MA's), (Start: 32 @7097 has 1 MA's), (35, 7106), (46, 7172), (48, 7175), (57, 7223), (61, 7235), (62, 7238), (72, 7292), (83, 7352), (90, 7388), (94, 7397), (113, 7469), (123, 7508), (125, 7511),

Gene: Danzina_12 Start: 8569, Stop: 9018, Start Num: 22
Candidate Starts for Danzina_12:
(Start: 6 @8512 has 1 MA's), (Start: 22 @8569 has 198 MA's), (66, 8758),

Gene: Dattran_12 Start: 8364, Stop: 8813, Start Num: 22
Candidate Starts for Dattran_12:
(Start: 6 @8307 has 1 MA's), (Start: 22 @8364 has 198 MA's), (56, 8514), (57, 8517), (66, 8553),

Gene: Daudau_11 Start: 8198, Stop: 8698, Start Num: 22
Candidate Starts for Daudau_11:
(9, 8156), (Start: 22 @8198 has 198 MA's), (66, 8396), (87, 8516), (96, 8552), (98, 8558),

Gene: Dexers_10 Start: 8157, Stop: 8618, Start Num: 22
Candidate Starts for Dexers_10:
(Start: 22 @8157 has 198 MA's), (28, 8172), (66, 8346), (96, 8502), (127, 8604),

Gene: Dexes_18 Start: 13576, Stop: 14025, Start Num: 23
Candidate Starts for Dexes_18:
(Start: 23 @13576 has 221 MA's), (Start: 29 @13600 has 3 MA's), (92, 13912), (117, 13987),

Gene: Diane_11 Start: 8130, Stop: 8606, Start Num: 22
Candidate Starts for Diane_11:
(Start: 22 @8130 has 198 MA's), (57, 8292), (66, 8328),

Gene: Diminimus_20 Start: 11030, Stop: 11512, Start Num: 17
Candidate Starts for Diminimus_20:
(Start: 17 @11030 has 22 MA's), (Start: 32 @11081 has 1 MA's), (57, 11210), (101, 11414), (111, 11438),

Gene: DirkDirk_9 Start: 7248, Stop: 7715, Start Num: 22
Candidate Starts for DirkDirk_9:
(Start: 22 @7248 has 198 MA's), (Start: 29 @7275 has 3 MA's), (Start: 32 @7287 has 1 MA's), (42, 7332), (45, 7344), (46, 7362), (48, 7365), (57, 7413), (61, 7425), (62, 7428), (72, 7482), (83, 7542), (94, 7587), (121, 7698), (123, 7701), (125, 7704),

Gene: DirtDevil_18 Start: 13747, Stop: 14196, Start Num: 23
Candidate Starts for DirtDevil_18:
(Start: 23 @13747 has 221 MA's), (Start: 29 @13771 has 3 MA's), (92, 14083), (117, 14158),

Gene: Donkey_8 Start: 7252, Stop: 7719, Start Num: 14

Candidate Starts for Donkey_8:
(2, 7201), (Start: 14 @7252 has 93 MA's), (58, 7444), (74, 7525), (82, 7576),

Gene: Doom_18 Start: 13634, Stop: 14083, Start Num: 23
Candidate Starts for Doom_18:
(Start: 23 @13634 has 221 MA's), (Start: 29 @13658 has 3 MA's), (92, 13970), (117, 14045),

Gene: Douge_9 Start: 6911, Stop: 7375, Start Num: 22
Candidate Starts for Douge_9:
(Start: 22 @6911 has 198 MA's), (Start: 32 @6950 has 1 MA's), (35, 6959), (46, 7025), (48, 7028), (52, 7040), (57, 7076), (60, 7085), (61, 7088), (62, 7091), (72, 7145), (91, 7244), (94, 7250), (113, 7322), (123, 7361), (125, 7364),

Gene: Douzhi_9 Start: 6911, Stop: 7375, Start Num: 22
Candidate Starts for Douzhi_9:
(Start: 22 @6911 has 198 MA's), (Start: 32 @6950 has 1 MA's), (35, 6959), (48, 7028), (52, 7040), (57, 7076), (60, 7085), (61, 7088), (62, 7091), (72, 7145), (91, 7244), (94, 7250), (113, 7322), (123, 7361), (125, 7364),

Gene: DrFeelGood_16 Start: 12986, Stop: 13435, Start Num: 23
Candidate Starts for DrFeelGood_16:
(Start: 23 @12986 has 221 MA's), (Start: 29 @13010 has 3 MA's), (92, 13322), (117, 13397),

Gene: DrManhattan_8 Start: 7844, Stop: 8248, Start Num: 14
Candidate Starts for DrManhattan_8:
(Start: 14 @7844 has 93 MA's), (56, 8024), (60, 8036),

Gene: DrSeegs_9 Start: 7231, Stop: 7695, Start Num: 22
Candidate Starts for DrSeegs_9:
(Start: 22 @7231 has 198 MA's), (Start: 29 @7258 has 3 MA's), (Start: 32 @7270 has 1 MA's), (46, 7345), (48, 7348), (57, 7396), (61, 7408), (62, 7411), (72, 7465), (94, 7570), (113, 7642), (123, 7681), (125, 7684),

Gene: DrSierra_8 Start: 7783, Stop: 8259, Start Num: 1
Candidate Starts for DrSierra_8:
(Start: 1 @7783 has 1 MA's), (11, 7828), (18, 7855),

Gene: DreamCatcher_20 Start: 14343, Stop: 14792, Start Num: 23
Candidate Starts for DreamCatcher_20:
(Start: 23 @14343 has 221 MA's), (Start: 29 @14367 has 3 MA's), (92, 14679), (117, 14754),

Gene: Dreamboat_18 Start: 12810, Stop: 13259, Start Num: 23
Candidate Starts for Dreamboat_18:
(Start: 23 @12810 has 221 MA's), (Start: 29 @12834 has 3 MA's), (92, 13146), (117, 13221),

Gene: Dulcie_16 Start: 12552, Stop: 13001, Start Num: 23
Candidate Starts for Dulcie_16:
(Start: 23 @12552 has 221 MA's), (Start: 29 @12576 has 3 MA's), (92, 12888), (117, 12963),

Gene: Dulcita_20 Start: 11030, Stop: 11512, Start Num: 17
Candidate Starts for Dulcita_20:
(Start: 17 @11030 has 22 MA's), (Start: 32 @11081 has 1 MA's), (57, 11210), (101, 11414), (111, 11438),

Gene: DuncansLeg_10 Start: 7375, Stop: 7851, Start Num: 22
Candidate Starts for DuncansLeg_10:
(Start: 22 @7375 has 198 MA's), (Start: 32 @7414 has 1 MA's), (42, 7465), (46, 7495), (48, 7498), (57, 7546), (58, 7549), (60, 7555), (61, 7558), (72, 7615), (74, 7630), (83, 7675), (90, 7711),

Gene: Dussy_18 Start: 13206, Stop: 13655, Start Num: 23
Candidate Starts for Dussy_18:
(Start: 23 @13206 has 221 MA's), (Start: 29 @13230 has 3 MA's), (92, 13542), (117, 13617),

Gene: Dwayne_11 Start: 8364, Stop: 8813, Start Num: 22
Candidate Starts for Dwayne_11:
(Start: 6 @8307 has 1 MA's), (Start: 22 @8364 has 198 MA's), (66, 8553), (114, 8757),

Gene: Dynamix_18 Start: 12962, Stop: 13411, Start Num: 23
Candidate Starts for Dynamix_18:
(Start: 23 @12962 has 221 MA's), (Start: 29 @12986 has 3 MA's), (92, 13298), (117, 13373),

Gene: DyoEdafos_10 Start: 7121, Stop: 7585, Start Num: 22
Candidate Starts for DyoEdafos_10:
(Start: 22 @7121 has 198 MA's), (Start: 32 @7160 has 1 MA's), (46, 7235), (52, 7250), (57, 7286), (60, 7295), (61, 7298), (62, 7301), (72, 7355), (91, 7454), (94, 7460), (113, 7532), (123, 7571), (125, 7574),

Gene: ELB20_10 Start: 8214, Stop: 8711, Start Num: 22
Candidate Starts for ELB20_10:
(Start: 22 @8214 has 198 MA's), (60, 8385), (66, 8412), (86, 8526), (96, 8568), (98, 8574), (127, 8697),

Gene: Eddasa_12 Start: 8558, Stop: 9010, Start Num: 22
Candidate Starts for Eddasa_12:
(10, 8519), (Start: 22 @8558 has 198 MA's), (66, 8750), (96, 8906),

Gene: Edtherson_18 Start: 13704, Stop: 14153, Start Num: 23
Candidate Starts for Edtherson_18:
(Start: 23 @13704 has 221 MA's), (Start: 29 @13728 has 3 MA's), (92, 14040), (117, 14115),

Gene: Ejemplo_11 Start: 8367, Stop: 8816, Start Num: 22
Candidate Starts for Ejemplo_11:
(Start: 6 @8310 has 1 MA's), (Start: 22 @8367 has 198 MA's), (66, 8556), (114, 8760),

Gene: ElGato_12 Start: 8167, Stop: 8628, Start Num: 22
Candidate Starts for ElGato_12:
(Start: 22 @8167 has 198 MA's), (28, 8182), (66, 8356), (96, 8512), (127, 8614),

Gene: Elezi_8 Start: 7827, Stop: 8234, Start Num: 14
Candidate Starts for Elezi_8:
(Start: 14 @7827 has 93 MA's), (59, 8016), (60, 8019), (62, 8025), (67, 8064),

Gene: Ellson_10 Start: 7383, Stop: 7859, Start Num: 22
Candidate Starts for Ellson_10:
(Start: 22 @7383 has 198 MA's), (Start: 32 @7422 has 1 MA's), (42, 7473), (46, 7503), (48, 7506), (57, 7554), (58, 7557), (61, 7566), (72, 7623), (74, 7638), (83, 7683), (90, 7719), (114, 7806),

Gene: Emaanora_13 Start: 8364, Stop: 8813, Start Num: 22

Candidate Starts for Emaanora_13:
(Start: 22 @8364 has 198 MA's), (66, 8553), (114, 8757),

Gene: EmiRose_8 Start: 7240, Stop: 7716, Start Num: 19
Candidate Starts for EmiRose_8:
(Start: 19 @7240 has 1 MA's), (20, 7246), (48, 7375), (57, 7420), (60, 7429), (61, 7432), (98, 7609), (109, 7651),

Gene: Emotion_7 Start: 6195, Stop: 6596, Start Num: 14
Candidate Starts for Emotion_7:
(Start: 14 @6195 has 93 MA's),

Gene: Enceladus_9 Start: 7248, Stop: 7715, Start Num: 22
Candidate Starts for Enceladus_9:
(Start: 22 @7248 has 198 MA's), (Start: 29 @7275 has 3 MA's), (Start: 32 @7287 has 1 MA's), (42, 7332), (45, 7344), (46, 7362), (48, 7365), (57, 7413), (61, 7425), (62, 7428), (72, 7482), (83, 7542), (94, 7587), (121, 7698), (123, 7701), (125, 7704),

Gene: EniyanLRS_28 Start: 13863, Stop: 14339, Start Num: 22
Candidate Starts for EniyanLRS_28:
(Start: 22 @13863 has 198 MA's), (26, 13875), (39, 13947), (44, 13965), (48, 13989), (67, 14088), (70, 14097), (76, 14127), (97, 14214), (109, 14259), (115, 14286), (118, 14292),

Gene: EnochSoames_12 Start: 8554, Stop: 9006, Start Num: 22
Candidate Starts for EnochSoames_12:
(10, 8515), (Start: 22 @8554 has 198 MA's), (66, 8746), (96, 8902),

Gene: EnzoK_18 Start: 13144, Stop: 13593, Start Num: 23
Candidate Starts for EnzoK_18:
(Start: 23 @13144 has 221 MA's), (Start: 29 @13168 has 3 MA's), (92, 13480), (117, 13555),

Gene: Eraser_8 Start: 7827, Stop: 8234, Start Num: 14
Candidate Starts for Eraser_8:
(Start: 14 @7827 has 93 MA's), (59, 8016), (60, 8019), (62, 8025), (67, 8064),

Gene: Esperer_11 Start: 8395, Stop: 8847, Start Num: 22
Candidate Starts for Esperer_11:
(10, 8356), (Start: 22 @8395 has 198 MA's), (66, 8587), (96, 8743),

Gene: Espresso_17 Start: 13014, Stop: 13463, Start Num: 23
Candidate Starts for Espresso_17:
(Start: 23 @13014 has 221 MA's), (Start: 29 @13038 has 3 MA's), (92, 13350), (117, 13425),

Gene: Estes_24 Start: 11731, Stop: 12213, Start Num: 17
Candidate Starts for Estes_24:
(Start: 17 @11731 has 22 MA's), (Start: 32 @11782 has 1 MA's), (44, 11836), (57, 11911), (101, 12115), (111, 12139),

Gene: Euphoria_17 Start: 12906, Stop: 13355, Start Num: 23
Candidate Starts for Euphoria_17:
(Start: 23 @12906 has 221 MA's), (Start: 29 @12930 has 3 MA's), (92, 13242), (117, 13317),

Gene: Exile_8 Start: 7864, Stop: 8262, Start Num: 14

Candidate Starts for Exile_8:
(Start: 14 @7864 has 93 MA's), (56, 8044), (60, 8056),

Gene: Eyeball_17 Start: 12645, Stop: 13094, Start Num: 23
Candidate Starts for Eyeball_17:
(Start: 23 @12645 has 221 MA's), (Start: 29 @12669 has 3 MA's), (92, 12981), (117, 13056),

Gene: Faith1_9 Start: 7231, Stop: 7695, Start Num: 22
Candidate Starts for Faith1_9:
(Start: 22 @7231 has 198 MA's), (Start: 29 @7258 has 3 MA's), (Start: 32 @7270 has 1 MA's), (46, 7345), (48, 7348), (57, 7396), (61, 7408), (62, 7411), (72, 7465), (94, 7570), (113, 7642), (123, 7681), (125, 7684),

Gene: Fajezeel_19 Start: 13225, Stop: 13674, Start Num: 23
Candidate Starts for Fajezeel_19:
(Start: 23 @13225 has 221 MA's), (Start: 29 @13249 has 3 MA's), (92, 13561), (117, 13636),

Gene: FarmResident_9 Start: 6956, Stop: 7420, Start Num: 22
Candidate Starts for FarmResident_9:
(Start: 22 @6956 has 198 MA's), (Start: 32 @6995 has 1 MA's), (35, 7004), (46, 7070), (48, 7073), (52, 7085), (57, 7121), (60, 7130), (61, 7133), (62, 7136), (72, 7190), (91, 7289), (94, 7295), (113, 7367), (123, 7406), (125, 7409),

Gene: Fascinus_16 Start: 12648, Stop: 13097, Start Num: 23
Candidate Starts for Fascinus_16:
(Start: 23 @12648 has 221 MA's), (Start: 29 @12672 has 3 MA's), (92, 12984), (117, 13059),

Gene: Fenn_18 Start: 14453, Stop: 14902, Start Num: 23
Candidate Starts for Fenn_18:
(Start: 23 @14453 has 221 MA's), (Start: 29 @14477 has 3 MA's), (92, 14789), (117, 14864),

Gene: Finemlucis_9 Start: 7231, Stop: 7695, Start Num: 22
Candidate Starts for Finemlucis_9:
(Start: 22 @7231 has 198 MA's), (Start: 29 @7258 has 3 MA's), (Start: 32 @7270 has 1 MA's), (46, 7345), (48, 7348), (57, 7396), (61, 7408), (62, 7411), (72, 7465), (94, 7570), (113, 7642), (123, 7681), (125, 7684),

Gene: Finnry_10 Start: 7368, Stop: 7844, Start Num: 22
Candidate Starts for Finnry_10:
(Start: 22 @7368 has 198 MA's), (Start: 32 @7407 has 1 MA's), (42, 7458), (46, 7488), (48, 7491), (57, 7539), (60, 7548), (61, 7551), (62, 7554), (72, 7608), (74, 7623), (83, 7668), (90, 7704),

Gene: FiveHead_7 Start: 6168, Stop: 6569, Start Num: 14
Candidate Starts for FiveHead_7:
(Start: 14 @6168 has 93 MA's), (60, 6360), (67, 6405),

Gene: Floof_7 Start: 6625, Stop: 7029, Start Num: 14
Candidate Starts for Floof_7:
(Start: 14 @6625 has 93 MA's), (30, 6670), (74, 6895), (75, 6901),

Gene: Flutur_8 Start: 7842, Stop: 8249, Start Num: 14
Candidate Starts for Flutur_8:
(Start: 14 @7842 has 93 MA's), (60, 8034),

Gene: Footloose_7 Start: 5771, Stop: 6229, Start Num: 55
Candidate Starts for Footloose_7:
(Start: 55 @5771 has 1 MA's), (73, 5867), (86, 5942), (88, 5951), (89, 5963), (95, 5978), (108, 6032), (124, 6101), (129, 6143), (130, 6188),

Gene: Forester_8 Start: 8209, Stop: 8697, Start Num: 14
Candidate Starts for Forester_8:
(Start: 14 @8209 has 93 MA's), (30, 8254), (74, 8479), (81, 8524), (104, 8617),

Gene: Forsytheast_16 Start: 12915, Stop: 13364, Start Num: 23
Candidate Starts for Forsytheast_16:
(Start: 23 @12915 has 221 MA's), (Start: 29 @12939 has 3 MA's), (92, 13251), (117, 13326),

Gene: Francis47_17 Start: 13462, Stop: 13911, Start Num: 23
Candidate Starts for Francis47_17:
(Start: 23 @13462 has 221 MA's), (Start: 29 @13486 has 3 MA's), (92, 13798), (117, 13873),

Gene: FreakyGoo_20 Start: 11031, Stop: 11513, Start Num: 17
Candidate Starts for FreakyGoo_20:
(Start: 17 @11031 has 22 MA's), (Start: 32 @11082 has 1 MA's), (57, 11211), (101, 11415), (111, 11439),

Gene: Froghopper_18 Start: 12878, Stop: 13327, Start Num: 23
Candidate Starts for Froghopper_18:
(Start: 23 @12878 has 221 MA's), (Start: 29 @12902 has 3 MA's), (92, 13214), (117, 13289),

Gene: Fushigi_18 Start: 13325, Stop: 13774, Start Num: 23
Candidate Starts for Fushigi_18:
(Start: 23 @13325 has 221 MA's), (Start: 29 @13349 has 3 MA's), (92, 13661), (117, 13736),

Gene: GMonster_16 Start: 12761, Stop: 13210, Start Num: 23
Candidate Starts for GMonster_16:
(Start: 23 @12761 has 221 MA's), (Start: 29 @12785 has 3 MA's), (92, 13097), (117, 13172),

Gene: Gabriela_9 Start: 7231, Stop: 7695, Start Num: 22
Candidate Starts for Gabriela_9:
(Start: 22 @7231 has 198 MA's), (Start: 29 @7258 has 3 MA's), (Start: 32 @7270 has 1 MA's), (46, 7345), (48, 7348), (57, 7396), (61, 7408), (62, 7411), (72, 7465), (94, 7570), (113, 7642), (123, 7681),

Gene: Gachnar_17 Start: 12936, Stop: 13385, Start Num: 23
Candidate Starts for Gachnar_17:
(Start: 23 @12936 has 221 MA's), (Start: 29 @12960 has 3 MA's), (92, 13272), (117, 13347),

Gene: GageAP_19 Start: 13642, Stop: 14091, Start Num: 23
Candidate Starts for GageAP_19:
(Start: 23 @13642 has 221 MA's), (Start: 29 @13666 has 3 MA's), (92, 13978), (117, 14053),

Gene: Gambol_8 Start: 7252, Stop: 7719, Start Num: 14
Candidate Starts for Gambol_8:
(2, 7201), (Start: 14 @7252 has 93 MA's), (58, 7444), (74, 7525), (82, 7576),

Gene: Gandalf20_18 Start: 13709, Stop: 14158, Start Num: 23

Candidate Starts for Gandalf20_18:
(Start: 23 @13709 has 221 MA's), (Start: 29 @13733 has 3 MA's), (92, 14045), (117, 14120),

Gene: Gardann_9 Start: 7231, Stop: 7695, Start Num: 22
Candidate Starts for Gardann_9:
(Start: 22 @7231 has 198 MA's), (Start: 29 @7258 has 3 MA's), (Start: 32 @7270 has 1 MA's), (46, 7345), (48, 7348), (57, 7396), (61, 7408), (62, 7411), (72, 7465), (94, 7570), (113, 7642), (123, 7681), (125, 7684),

Gene: GardenSalsa_23 Start: 11567, Stop: 12049, Start Num: 17
Candidate Starts for GardenSalsa_23:
(Start: 17 @11567 has 22 MA's), (Start: 32 @11618 has 1 MA's), (44, 11672), (57, 11747), (101, 11951), (111, 11975),

Gene: GardenState_8 Start: 7336, Stop: 7818, Start Num: 14
Candidate Starts for GardenState_8:
(Start: 14 @7336 has 93 MA's), (30, 7387),

Gene: GenevaB15_23 Start: 11594, Stop: 12076, Start Num: 17
Candidate Starts for GenevaB15_23:
(Start: 17 @11594 has 22 MA's), (Start: 32 @11645 has 1 MA's), (44, 11699), (57, 11774), (101, 11978), (111, 12002),

Gene: Giorgio_8 Start: 7345, Stop: 7812, Start Num: 14
Candidate Starts for Giorgio_8:
(2, 7294), (Start: 14 @7345 has 93 MA's), (58, 7537), (74, 7618),

Gene: GirlDinner_11 Start: 8209, Stop: 8697, Start Num: 22
Candidate Starts for GirlDinner_11:
(Start: 22 @8209 has 198 MA's), (47, 8320), (54, 8350), (66, 8407), (86, 8521), (96, 8563), (98, 8569), (119, 8638),

Gene: Glaske16_20 Start: 11030, Stop: 11512, Start Num: 17
Candidate Starts for Glaske16_20:
(Start: 17 @11030 has 22 MA's), (Start: 32 @11081 has 1 MA's), (57, 11210), (101, 11414), (111, 11438),

Gene: Goby_11 Start: 8367, Stop: 8816, Start Num: 22
Candidate Starts for Goby_11:
(Start: 6 @8310 has 1 MA's), (Start: 22 @8367 has 198 MA's), (66, 8556), (96, 8712),

Gene: Godpower_12 Start: 8382, Stop: 8831, Start Num: 22
Candidate Starts for Godpower_12:
(Start: 22 @8382 has 198 MA's), (66, 8571), (96, 8727),

Gene: Gompeii16_17 Start: 13410, Stop: 13859, Start Num: 23
Candidate Starts for Gompeii16_17:
(Start: 23 @13410 has 221 MA's), (Start: 29 @13434 has 3 MA's), (92, 13746), (117, 13821),

Gene: Graduation_19 Start: 13675, Stop: 14124, Start Num: 23
Candidate Starts for Graduation_19:
(Start: 23 @13675 has 221 MA's), (Start: 29 @13699 has 3 MA's), (92, 14011), (117, 14086),

Gene: GrecoEtereo_18 Start: 13216, Stop: 13665, Start Num: 23
Candidate Starts for GrecoEtereo_18:
(Start: 23 @13216 has 221 MA's), (Start: 29 @13240 has 3 MA's), (92, 13552), (117, 13627),

Gene: GreenWeasel_13 Start: 8459, Stop: 8926, Start Num: 22
Candidate Starts for GreenWeasel_13:
(Start: 22 @8459 has 198 MA's), (56, 8609), (57, 8612), (66, 8648), (80, 8735), (100, 8828), (106, 8846), (127, 8912),

Gene: Greg_19 Start: 13225, Stop: 13674, Start Num: 23
Candidate Starts for Greg_19:
(Start: 23 @13225 has 221 MA's), (Start: 29 @13249 has 3 MA's), (92, 13561), (117, 13636),

Gene: Gretchen_8 Start: 8203, Stop: 8691, Start Num: 14
Candidate Starts for Gretchen_8:
(Start: 14 @8203 has 93 MA's), (30, 8248), (74, 8473), (81, 8518), (104, 8611),

Gene: GroundGoblin_18 Start: 13747, Stop: 14196, Start Num: 23
Candidate Starts for GroundGoblin_18:
(Start: 23 @13747 has 221 MA's), (Start: 29 @13771 has 3 MA's), (92, 14083), (117, 14158),

Gene: Gumpizza_8 Start: 7344, Stop: 7811, Start Num: 14
Candidate Starts for Gumpizza_8:
(2, 7293), (Start: 14 @7344 has 93 MA's), (58, 7536), (74, 7617),

Gene: GuuelaD_9 Start: 7264, Stop: 7728, Start Num: 22
Candidate Starts for GuuelaD_9:
(Start: 22 @7264 has 198 MA's), (Start: 29 @7291 has 3 MA's), (Start: 32 @7303 has 1 MA's), (48, 7381), (57, 7429), (61, 7441), (62, 7444), (72, 7498), (83, 7558), (94, 7603), (113, 7675), (123, 7714), (125, 7717),

Gene: Gyzlar_19 Start: 14152, Stop: 14601, Start Num: 23
Candidate Starts for Gyzlar_19:
(Start: 23 @14152 has 221 MA's), (Start: 29 @14176 has 3 MA's), (92, 14488), (117, 14563),

Gene: Hafay_9 Start: 7264, Stop: 7728, Start Num: 22
Candidate Starts for Hafay_9:
(Start: 22 @7264 has 198 MA's), (Start: 29 @7291 has 3 MA's), (Start: 32 @7303 has 1 MA's), (46, 7378), (48, 7381), (57, 7429), (61, 7441), (62, 7444), (72, 7498), (94, 7603), (113, 7675), (123, 7714), (125, 7717),

Gene: Haizum_11 Start: 8160, Stop: 8636, Start Num: 22
Candidate Starts for Haizum_11:
(Start: 22 @8160 has 198 MA's), (57, 8322), (66, 8358),

Gene: Halena_9 Start: 7247, Stop: 7714, Start Num: 22
Candidate Starts for Halena_9:
(Start: 22 @7247 has 198 MA's), (Start: 29 @7274 has 3 MA's), (Start: 32 @7286 has 1 MA's), (42, 7331), (45, 7343), (46, 7361), (48, 7364), (57, 7412), (61, 7424), (62, 7427), (72, 7481), (83, 7541), (94, 7586), (121, 7697), (123, 7700), (125, 7703),

Gene: Halsey_8 Start: 7343, Stop: 7810, Start Num: 14
Candidate Starts for Halsey_8:

(2, 7292), (Start: 14 @7343 has 93 MA's), (58, 7535), (74, 7616),

Gene: Hami1_19 Start: 13297, Stop: 13746, Start Num: 23
Candidate Starts for Hami1_19:
(Start: 23 @13297 has 221 MA's), (Start: 29 @13321 has 3 MA's), (92, 13633), (117, 13708),

Gene: HanShotFirst_17 Start: 12831, Stop: 13280, Start Num: 23
Candidate Starts for HanShotFirst_17:
(Start: 23 @12831 has 221 MA's), (Start: 29 @12855 has 3 MA's), (92, 13167), (117, 13242),

Gene: Hank144_12 Start: 8436, Stop: 8966, Start Num: 5
Candidate Starts for Hank144_12:
(Start: 5 @8436 has 1 MA's), (8, 8451), (Start: 22 @8499 has 198 MA's), (61, 8673), (66, 8697), (86, 8811),

Gene: HarryOW_18 Start: 13216, Stop: 13665, Start Num: 23
Candidate Starts for HarryOW_18:
(Start: 23 @13216 has 221 MA's), (Start: 29 @13240 has 3 MA's), (92, 13552), (117, 13627),

Gene: Hermia_19 Start: 13963, Stop: 14388, Start Num: 29
Candidate Starts for Hermia_19:
(Start: 23 @13939 has 221 MA's), (Start: 29 @13963 has 3 MA's), (92, 14275), (117, 14350),

Gene: HermioneGrange_17 Start: 12851, Stop: 13300, Start Num: 23
Candidate Starts for HermioneGrange_17:
(Start: 23 @12851 has 221 MA's), (Start: 29 @12875 has 3 MA's), (92, 13187), (117, 13262),

Gene: Hippo_11 Start: 8364, Stop: 8813, Start Num: 22
Candidate Starts for Hippo_11:
(Start: 22 @8364 has 198 MA's), (66, 8553), (114, 8757),

Gene: Hiraya_9 Start: 7231, Stop: 7695, Start Num: 22
Candidate Starts for Hiraya_9:
(Start: 22 @7231 has 198 MA's), (Start: 29 @7258 has 3 MA's), (Start: 32 @7270 has 1 MA's), (46, 7345), (48, 7348), (57, 7396), (61, 7408), (62, 7411), (72, 7465), (94, 7570), (113, 7642), (123, 7681), (125, 7684),

Gene: Homines_17 Start: 12941, Stop: 13390, Start Num: 23
Candidate Starts for Homines_17:
(Start: 23 @12941 has 221 MA's), (Start: 29 @12965 has 3 MA's), (92, 13277), (117, 13352),

Gene: Honk_7 Start: 6227, Stop: 6709, Start Num: 16
Candidate Starts for Honk_7:
(Start: 16 @6227 has 1 MA's), (Start: 55 @6386 has 1 MA's), (61, 6416), (96, 6587), (116, 6665),

Gene: Hope4ever_17 Start: 13327, Stop: 13776, Start Num: 23
Candidate Starts for Hope4ever_17:
(Start: 23 @13327 has 221 MA's), (Start: 29 @13351 has 3 MA's), (92, 13663), (117, 13738),

Gene: Hydra_13 Start: 8923, Stop: 9375, Start Num: 22
Candidate Starts for Hydra_13:
(10, 8884), (Start: 22 @8923 has 198 MA's), (66, 9115), (96, 9271),

Gene: IAmGroot_8 Start: 7980, Stop: 8462, Start Num: 14
Candidate Starts for IAmGroot_8:
(Start: 14 @7980 has 93 MA's), (30, 8031),

Gene: ILeeKay_19 Start: 13086, Stop: 13535, Start Num: 23
Candidate Starts for ILeeKay_19:
(Start: 23 @13086 has 221 MA's), (Start: 29 @13110 has 3 MA's), (92, 13422), (117, 13497),

Gene: IPhane7_19 Start: 11031, Stop: 11513, Start Num: 17
Candidate Starts for IPhane7_19:
(Start: 17 @11031 has 22 MA's), (Start: 32 @11082 has 1 MA's), (57, 11211), (101, 11415), (111, 11439),

Gene: IUFootball_7 Start: 6336, Stop: 6731, Start Num: 14
Candidate Starts for IUFootball_7:
(Start: 14 @6336 has 93 MA's), (60, 6528), (83, 6657),

Gene: Ichabod_18 Start: 12943, Stop: 13392, Start Num: 23
Candidate Starts for Ichabod_18:
(Start: 23 @12943 has 221 MA's), (Start: 29 @12967 has 3 MA's), (77, 13210), (92, 13279), (117, 13354),

Gene: IgnatiusPatJac_16 Start: 12912, Stop: 13361, Start Num: 23
Candidate Starts for IgnatiusPatJac_16:
(Start: 23 @12912 has 221 MA's), (Start: 29 @12936 has 3 MA's), (92, 13248), (117, 13323),

Gene: Indigo_11 Start: 8395, Stop: 8847, Start Num: 22
Candidate Starts for Indigo_11:
(10, 8356), (Start: 22 @8395 has 198 MA's), (66, 8587), (96, 8743),

Gene: Inyanga_16 Start: 12689, Stop: 13138, Start Num: 23
Candidate Starts for Inyanga_16:
(Start: 23 @12689 has 221 MA's), (Start: 29 @12713 has 3 MA's), (92, 13025), (117, 13100),

Gene: Iqorha_16 Start: 12688, Stop: 13137, Start Num: 23
Candidate Starts for Iqorha_16:
(Start: 23 @12688 has 221 MA's), (Start: 29 @12712 has 3 MA's), (92, 13024), (117, 13099),

Gene: Issmi_12 Start: 8440, Stop: 8916, Start Num: 22
Candidate Starts for Issmi_12:
(Start: 22 @8440 has 198 MA's), (66, 8638), (103, 8830), (127, 8902),

Gene: Iter_8 Start: 7909, Stop: 8259, Start Num: 33
Candidate Starts for Iter_8:
(Start: 14 @7852 has 93 MA's), (Start: 33 @7909 has 1 MA's), (60, 8044), (67, 8089),

Gene: Itos_9 Start: 7231, Stop: 7695, Start Num: 22
Candidate Starts for Itos_9:
(Start: 22 @7231 has 198 MA's), (Start: 29 @7258 has 3 MA's), (Start: 32 @7270 has 1 MA's), (46, 7345), (48, 7348), (57, 7396), (61, 7408), (62, 7411), (72, 7465), (94, 7570), (113, 7642), (123, 7681), (125, 7684),

Gene: IttyBittyPiggy_8 Start: 7843, Stop: 8253, Start Num: 14

Candidate Starts for IttyBittyPiggy_8:
(Start: 14 @7843 has 93 MA's), (60, 8035), (67, 8080),

Gene: Itza_11 Start: 8587, Stop: 9072, Start Num: 22
Candidate Starts for Itza_11:
(Start: 22 @8587 has 198 MA's), (57, 8740), (66, 8776), (80, 8863),

Gene: Izel_20 Start: 11030, Stop: 11512, Start Num: 17
Candidate Starts for Izel_20:
(Start: 17 @11030 has 22 MA's), (Start: 32 @11081 has 1 MA's), (57, 11210), (101, 11414), (111, 11438),

Gene: Izzy_12 Start: 8605, Stop: 9057, Start Num: 22
Candidate Starts for Izzy_12:
(10, 8566), (Start: 22 @8605 has 198 MA's), (66, 8797), (96, 8953),

Gene: JC27_19 Start: 13822, Stop: 14271, Start Num: 23
Candidate Starts for JC27_19:
(Start: 23 @13822 has 221 MA's), (Start: 29 @13846 has 3 MA's), (92, 14158), (117, 14233),

Gene: JackSparrow_18 Start: 13253, Stop: 13702, Start Num: 23
Candidate Starts for JackSparrow_18:
(Start: 23 @13253 has 221 MA's), (Start: 29 @13277 has 3 MA's), (92, 13589), (117, 13664),

Gene: Janeemi_9 Start: 8938, Stop: 9369, Start Num: 14
Candidate Starts for Janeemi_9:
(Start: 14 @8938 has 93 MA's), (60, 9130), (67, 9175),

Gene: Janus_12 Start: 8547, Stop: 9035, Start Num: 22
Candidate Starts for Janus_12:
(3, 8478), (Start: 22 @8547 has 198 MA's), (47, 8658), (54, 8688), (66, 8745), (86, 8859), (96, 8901), (98, 8907), (119, 8976),

Gene: Jash_12 Start: 8558, Stop: 9010, Start Num: 22
Candidate Starts for Jash_12:
(10, 8519), (Start: 22 @8558 has 198 MA's), (66, 8750), (96, 8906),

Gene: JasmineDragon_7 Start: 6172, Stop: 6573, Start Num: 14
Candidate Starts for JasmineDragon_7:
(Start: 14 @6172 has 93 MA's), (67, 6409),

Gene: Jasper_18 Start: 12754, Stop: 13203, Start Num: 23
Candidate Starts for Jasper_18:
(Start: 23 @12754 has 221 MA's), (Start: 29 @12778 has 3 MA's), (92, 13090), (117, 13165),

Gene: Jerm2_18 Start: 13123, Stop: 13572, Start Num: 23
Candidate Starts for Jerm2_18:
(Start: 23 @13123 has 221 MA's), (Start: 29 @13147 has 3 MA's), (92, 13459), (117, 13534),

Gene: Jevington_13 Start: 8742, Stop: 9218, Start Num: 22
Candidate Starts for Jevington_13:
(Start: 22 @8742 has 198 MA's), (51, 8862), (57, 8904), (80, 9027), (103, 9132), (114, 9147), (127, 9204),

Gene: Jhitchelle_10 Start: 8093, Stop: 8554, Start Num: 22
Candidate Starts for Jhitchelle_10:
(Start: 22 @8093 has 198 MA's), (28, 8108), (66, 8282), (96, 8438), (127, 8540),

Gene: Jobypre_10 Start: 7371, Stop: 7847, Start Num: 22
Candidate Starts for Jobypre_10:
(Start: 22 @7371 has 198 MA's), (Start: 32 @7410 has 1 MA's), (42, 7461), (46, 7491), (48, 7494), (57, 7542), (60, 7551), (61, 7554), (62, 7557), (72, 7611), (74, 7626), (83, 7671), (90, 7707),

Gene: JoeDirt_9 Start: 7247, Stop: 7714, Start Num: 22
Candidate Starts for JoeDirt_9:
(Start: 22 @7247 has 198 MA's), (Start: 29 @7274 has 3 MA's), (Start: 32 @7286 has 1 MA's), (42, 7331), (45, 7343), (46, 7361), (48, 7364), (57, 7412), (61, 7424), (62, 7427), (72, 7481), (83, 7541), (94, 7586), (121, 7697), (123, 7700), (125, 7703),

Gene: Joemato_8 Start: 7843, Stop: 8250, Start Num: 14
Candidate Starts for Joemato_8:
(Start: 14 @7843 has 93 MA's), (60, 8035),

Gene: JohnDoe_8 Start: 7841, Stop: 8248, Start Num: 14
Candidate Starts for JohnDoe_8:
(Start: 14 @7841 has 93 MA's), (60, 8033),

Gene: JohnThicc_7 Start: 6168, Stop: 6569, Start Num: 14
Candidate Starts for JohnThicc_7:
(Start: 14 @6168 has 93 MA's), (60, 6360), (67, 6405),

Gene: Jorgensen_17 Start: 12710, Stop: 13159, Start Num: 23
Candidate Starts for Jorgensen_17:
(Start: 23 @12710 has 221 MA's), (Start: 29 @12734 has 3 MA's), (92, 13046), (117, 13121),

Gene: Jstan_8 Start: 7827, Stop: 8234, Start Num: 14
Candidate Starts for Jstan_8:
(Start: 14 @7827 has 93 MA's), (59, 8016), (60, 8019), (62, 8025), (67, 8064),

Gene: Jubie_10 Start: 7371, Stop: 7847, Start Num: 22
Candidate Starts for Jubie_10:
(Start: 22 @7371 has 198 MA's), (Start: 32 @7410 has 1 MA's), (42, 7461), (46, 7491), (48, 7494), (57, 7542), (60, 7551), (61, 7554), (62, 7557), (72, 7611), (74, 7626), (83, 7671), (90, 7707),

Gene: JuliaChild_19 Start: 13381, Stop: 13830, Start Num: 23
Candidate Starts for JuliaChild_19:
(Start: 23 @13381 has 221 MA's), (Start: 29 @13405 has 3 MA's), (92, 13717), (117, 13792),

Gene: JuneStar_8 Start: 7957, Stop: 8352, Start Num: 14
Candidate Starts for JuneStar_8:
(Start: 14 @7957 has 93 MA's), (67, 8194),

Gene: KBG_18 Start: 13831, Stop: 14280, Start Num: 23
Candidate Starts for KBG_18:
(Start: 23 @13831 has 221 MA's), (Start: 29 @13855 has 3 MA's), (92, 14167), (117, 14242),

Gene: KSSJEB_17 Start: 12728, Stop: 13177, Start Num: 23
Candidate Starts for KSSJEB_17:
(Start: 23 @12728 has 221 MA's), (Start: 29 @12752 has 3 MA's), (92, 13064), (117, 13139),

Gene: Kahlid_9 Start: 7231, Stop: 7695, Start Num: 22
Candidate Starts for Kahlid_9:
(Start: 22 @7231 has 198 MA's), (Start: 29 @7258 has 3 MA's), (Start: 32 @7270 has 1 MA's), (46, 7345), (48, 7348), (57, 7396), (61, 7408), (62, 7411), (72, 7465), (94, 7570), (113, 7642), (123, 7681), (125, 7684),

Gene: Kaine_11 Start: 8157, Stop: 8618, Start Num: 22
Candidate Starts for Kaine_11:
(Start: 22 @8157 has 198 MA's), (28, 8172), (66, 8346), (96, 8502), (127, 8604),

Gene: Kalimba_8 Start: 7252, Stop: 7719, Start Num: 14
Candidate Starts for Kalimba_8:
(2, 7201), (Start: 14 @7252 has 93 MA's), (58, 7444), (74, 7525), (82, 7576),

Gene: Kanely_18 Start: 13490, Stop: 13939, Start Num: 23
Candidate Starts for Kanely_18:
(Start: 23 @13490 has 221 MA's), (Start: 29 @13514 has 3 MA's), (92, 13826), (117, 13901),

Gene: Katalie_12 Start: 8637, Stop: 9086, Start Num: 22
Candidate Starts for Katalie_12:
(Start: 6 @8580 has 1 MA's), (Start: 22 @8637 has 198 MA's), (66, 8826),

Gene: Kaylissa_8 Start: 7844, Stop: 8251, Start Num: 14
Candidate Starts for Kaylissa_8:
(Start: 14 @7844 has 93 MA's), (60, 8036),

Gene: KeAlii_8 Start: 7870, Stop: 8277, Start Num: 14
Candidate Starts for KeAlii_8:
(Start: 14 @7870 has 93 MA's), (Start: 33 @7927 has 1 MA's),

Gene: Kenmech_20 Start: 14292, Stop: 14741, Start Num: 23
Candidate Starts for Kenmech_20:
(Start: 23 @14292 has 221 MA's), (Start: 29 @14316 has 3 MA's), (92, 14628), (117, 14703),

Gene: KikiBouba_19 Start: 13748, Stop: 14197, Start Num: 23
Candidate Starts for KikiBouba_19:
(Start: 23 @13748 has 221 MA's), (Start: 29 @13772 has 3 MA's), (92, 14084), (117, 14159),

Gene: Killigrew_15 Start: 12364, Stop: 12813, Start Num: 23
Candidate Starts for Killigrew_15:
(Start: 23 @12364 has 221 MA's), (Start: 29 @12388 has 3 MA's), (92, 12700), (117, 12775),

Gene: Kingsolomon_10 Start: 7371, Stop: 7847, Start Num: 22
Candidate Starts for Kingsolomon_10:
(Start: 22 @7371 has 198 MA's), (Start: 32 @7410 has 1 MA's), (42, 7461), (46, 7491), (48, 7494), (57, 7542), (60, 7551), (61, 7554), (62, 7557), (72, 7611), (74, 7626), (83, 7671), (90, 7707),

Gene: KirDoubleO7_8 Start: 7384, Stop: 7860, Start Num: 22
Candidate Starts for KirDoubleO7_8:

(Start: 22 @7384 has 198 MA's), (Start: 32 @7423 has 1 MA's), (42, 7474), (46, 7504), (48, 7507), (57, 7555), (58, 7558), (60, 7564), (61, 7567), (72, 7624), (74, 7639), (83, 7684), (90, 7720), (114, 7807),

Gene: KleverKiS_19 Start: 11027, Stop: 11509, Start Num: 17
Candidate Starts for KleverKiS_19:
(Start: 17 @11027 has 22 MA's), (Start: 32 @11078 has 1 MA's), (57, 11207), (101, 11411), (111, 11435),

Gene: Kropertea_9 Start: 6927, Stop: 7391, Start Num: 22
Candidate Starts for Kropertea_9:
(Start: 22 @6927 has 198 MA's), (Start: 32 @6966 has 1 MA's), (46, 7041), (52, 7056), (57, 7092), (60, 7101), (61, 7104), (62, 7107), (72, 7161), (91, 7260), (94, 7266), (113, 7338), (123, 7377), (125, 7380),

Gene: Krypton555_10 Start: 7360, Stop: 7836, Start Num: 22
Candidate Starts for Krypton555_10:
(Start: 22 @7360 has 198 MA's), (Start: 32 @7399 has 1 MA's), (42, 7450), (46, 7480), (48, 7483), (Start: 55 @7513 has 1 MA's), (57, 7531), (60, 7540), (61, 7543), (62, 7546), (72, 7600), (74, 7615), (83, 7660), (90, 7696),

Gene: Kudefre_17 Start: 10644, Stop: 11111, Start Num: 22
Candidate Starts for Kudefre_17:
(21, 10641), (Start: 22 @10644 has 198 MA's), (25, 10653), (Start: 32 @10683 has 1 MA's), (38, 10719), (43, 10737), (57, 10812), (61, 10824), (62, 10827), (75, 10902), (90, 10986), (93, 10992), (115, 11076), (118, 11082),

Gene: Kumao_18 Start: 10373, Stop: 10849, Start Num: 22
Candidate Starts for Kumao_18:
(Start: 22 @10373 has 198 MA's), (28, 10391), (Start: 32 @10412 has 1 MA's), (34, 10418), (41, 10460), (44, 10472), (66, 10583), (67, 10601), (71, 10613), (102, 10754), (110, 10772), (112, 10784),

Gene: KyMonks1A_19 Start: 13229, Stop: 13678, Start Num: 23
Candidate Starts for KyMonks1A_19:
(Start: 23 @13229 has 221 MA's), (Start: 29 @13253 has 3 MA's), (92, 13565), (117, 13640),

Gene: LadyAstra_7 Start: 6168, Stop: 6569, Start Num: 14
Candidate Starts for LadyAstra_7:
(Start: 14 @6168 has 93 MA's), (60, 6360), (67, 6405),

Gene: Lamina13_17 Start: 12505, Stop: 12954, Start Num: 23
Candidate Starts for Lamina13_17:
(Start: 23 @12505 has 221 MA's), (Start: 29 @12529 has 3 MA's), (92, 12841), (117, 12916),

Gene: Lannister_12 Start: 8385, Stop: 8834, Start Num: 22
Candidate Starts for Lannister_12:
(Start: 22 @8385 has 198 MA's), (66, 8574),

Gene: LeBron_9 Start: 7274, Stop: 7714, Start Num: 29
Candidate Starts for LeBron_9:
(Start: 22 @7247 has 198 MA's), (Start: 29 @7274 has 3 MA's), (Start: 32 @7286 has 1 MA's), (42, 7331), (45, 7343), (46, 7361), (48, 7364), (57, 7412), (61, 7424), (62, 7427), (72, 7481), (83, 7541), (94, 7586), (121, 7697), (123, 7700), (125, 7703),

Gene: Legacy_11 Start: 8366, Stop: 8818, Start Num: 22

Candidate Starts for Legacy_11:
(10, 8327), (Start: 22 @8366 has 198 MA's), (66, 8558), (96, 8714),

Gene: Lego_8 Start: 7842, Stop: 8249, Start Num: 14
Candidate Starts for Lego_8:
(Start: 14 @7842 has 93 MA's), (60, 8034),

Gene: Lesedi_16 Start: 12666, Stop: 13115, Start Num: 23
Candidate Starts for Lesedi_16:
(Start: 23 @12666 has 221 MA's), (Start: 29 @12690 has 3 MA's), (92, 13002), (117, 13077),

Gene: Levia_17 Start: 13692, Stop: 14141, Start Num: 23
Candidate Starts for Levia_17:
(Start: 23 @13692 has 221 MA's), (Start: 29 @13716 has 3 MA's), (92, 14028), (117, 14103),

Gene: Leviticus_11 Start: 8395, Stop: 8847, Start Num: 22
Candidate Starts for Leviticus_11:
(10, 8356), (Start: 22 @8395 has 198 MA's), (66, 8587), (96, 8743),

Gene: Lewan_9 Start: 7270, Stop: 7695, Start Num: 32
Candidate Starts for Lewan_9:
(Start: 22 @7231 has 198 MA's), (Start: 29 @7258 has 3 MA's), (Start: 32 @7270 has 1 MA's), (46, 7345), (48, 7348), (57, 7396), (61, 7408), (62, 7411), (72, 7465), (94, 7570), (113, 7642), (123, 7681), (125, 7684),

Gene: Licorice_19 Start: 13818, Stop: 14267, Start Num: 23
Candidate Starts for Licorice_19:
(Start: 23 @13818 has 221 MA's), (Start: 29 @13842 has 3 MA's), (92, 14154), (117, 14229),

Gene: Liebe_7 Start: 6336, Stop: 6731, Start Num: 14
Candidate Starts for Liebe_7:
(Start: 14 @6336 has 93 MA's), (60, 6528), (83, 6657),

Gene: Lika_11 Start: 8383, Stop: 8832, Start Num: 22
Candidate Starts for Lika_11:
(Start: 22 @8383 has 198 MA's), (66, 8572), (96, 8728),

Gene: LilBib_18 Start: 13748, Stop: 14197, Start Num: 23
Candidate Starts for LilBib_18:
(Start: 23 @13748 has 221 MA's), (Start: 29 @13772 has 3 MA's), (92, 14084), (117, 14159),

Gene: LilDestine_9 Start: 7231, Stop: 7695, Start Num: 22
Candidate Starts for LilDestine_9:
(Start: 22 @7231 has 198 MA's), (Start: 29 @7258 has 3 MA's), (Start: 32 @7270 has 1 MA's), (46, 7345), (48, 7348), (57, 7396), (61, 7408), (62, 7411), (72, 7465), (94, 7570), (113, 7642), (123, 7681), (125, 7684),

Gene: LilJank_17 Start: 10503, Stop: 10973, Start Num: 22
Candidate Starts for LilJank_17:
(Start: 22 @10503 has 198 MA's), (58, 10695), (61, 10704), (62, 10707), (63, 10710), (64, 10719), (65, 10725), (69, 10752), (84, 10836), (107, 10920), (115, 10950), (118, 10956),

Gene: LilhomieP_18 Start: 11031, Stop: 11513, Start Num: 17

Candidate Starts for LilhomieP_18:
(Start: 17 @11031 has 22 MA's), (Start: 32 @11082 has 1 MA's), (57, 11211), (101, 11415), (111, 11439),

Gene: LiyuLake_10 Start: 7375, Stop: 7851, Start Num: 22
Candidate Starts for LiyuLake_10:
(Start: 22 @7375 has 198 MA's), (Start: 32 @7414 has 1 MA's), (42, 7465), (46, 7495), (48, 7498), (57, 7546), (58, 7549), (61, 7558), (72, 7615), (74, 7630), (83, 7675), (90, 7711), (114, 7798),

Gene: Lizalica_8 Start: 7834, Stop: 8241, Start Num: 14
Candidate Starts for Lizalica_8:
(Start: 14 @7834 has 93 MA's), (60, 8026), (67, 8071),

Gene: Loadrie_9 Start: 7264, Stop: 7728, Start Num: 22
Candidate Starts for Loadrie_9:
(Start: 22 @7264 has 198 MA's), (Start: 29 @7291 has 3 MA's), (Start: 32 @7303 has 1 MA's), (46, 7378), (48, 7381), (57, 7429), (61, 7441), (62, 7444), (72, 7498), (94, 7603), (113, 7675), (123, 7714), (125, 7717),

Gene: Lockley_17 Start: 12843, Stop: 13292, Start Num: 23
Candidate Starts for Lockley_17:
(Start: 23 @12843 has 221 MA's), (Start: 29 @12867 has 3 MA's), (92, 13179), (117, 13254),

Gene: Lolly9_10 Start: 7378, Stop: 7854, Start Num: 22
Candidate Starts for Lolly9_10:
(Start: 22 @7378 has 198 MA's), (Start: 32 @7417 has 1 MA's), (42, 7468), (46, 7498), (48, 7501), (57, 7549), (60, 7558), (61, 7561), (62, 7564), (72, 7618), (74, 7633), (83, 7678), (90, 7714),

Gene: London_8 Start: 7827, Stop: 8234, Start Num: 14
Candidate Starts for London_8:
(Start: 14 @7827 has 93 MA's), (59, 8016), (60, 8019), (62, 8025), (67, 8064),

Gene: Loofah_12 Start: 8254, Stop: 8751, Start Num: 22
Candidate Starts for Loofah_12:
(Start: 22 @8254 has 198 MA's), (60, 8425), (66, 8452), (86, 8566), (96, 8608), (98, 8614), (127, 8737),

Gene: Lopton_18 Start: 14267, Stop: 14716, Start Num: 23
Candidate Starts for Lopton_18:
(Start: 23 @14267 has 221 MA's), (Start: 29 @14291 has 3 MA's), (117, 14678),

Gene: Lorelei_11 Start: 8361, Stop: 8804, Start Num: 22
Candidate Starts for Lorelei_11:
(Start: 6 @8304 has 1 MA's), (Start: 22 @8361 has 198 MA's), (66, 8544), (114, 8748),

Gene: Lumos_10 Start: 7371, Stop: 7847, Start Num: 22
Candidate Starts for Lumos_10:
(Start: 22 @7371 has 198 MA's), (Start: 32 @7410 has 1 MA's), (42, 7461), (46, 7491), (48, 7494), (57, 7542), (60, 7551), (61, 7554), (62, 7557), (72, 7611), (74, 7626), (83, 7671), (90, 7707),

Gene: LunarLander_17 Start: 12622, Stop: 13071, Start Num: 23
Candidate Starts for LunarLander_17:
(Start: 23 @12622 has 221 MA's), (92, 12958), (117, 13033),

Gene: Lynnae_9 Start: 7231, Stop: 7695, Start Num: 22
Candidate Starts for Lynnae_9:
(Start: 22 @7231 has 198 MA's), (Start: 29 @7258 has 3 MA's), (Start: 32 @7270 has 1 MA's), (46, 7345), (48, 7348), (57, 7396), (61, 7408), (62, 7411), (72, 7465), (94, 7570), (113, 7642), (123, 7681), (125, 7684),

Gene: MAckerman_9 Start: 7246, Stop: 7713, Start Num: 22
Candidate Starts for MAckerman_9:
(Start: 22 @7246 has 198 MA's), (Start: 29 @7273 has 3 MA's), (Start: 32 @7285 has 1 MA's), (42, 7330), (45, 7342), (46, 7360), (48, 7363), (57, 7411), (61, 7423), (62, 7426), (72, 7480), (83, 7540), (94, 7585), (121, 7696), (123, 7699), (125, 7702),

Gene: MPlant7149_16 Start: 12477, Stop: 12926, Start Num: 23
Candidate Starts for MPlant7149_16:
(Start: 23 @12477 has 221 MA's), (Start: 29 @12501 has 3 MA's), (92, 12813), (117, 12888),

Gene: MaGuCo_7 Start: 6195, Stop: 6590, Start Num: 14
Candidate Starts for MaGuCo_7:
(Start: 14 @6195 has 93 MA's), (60, 6387), (83, 6516),

Gene: Mabodamaca_8 Start: 7413, Stop: 7892, Start Num: 14
Candidate Starts for Mabodamaca_8:
(Start: 14 @7413 has 93 MA's), (75, 7689), (120, 7884),

Gene: Magnar_17 Start: 12624, Stop: 13073, Start Num: 23
Candidate Starts for Magnar_17:
(Start: 23 @12624 has 221 MA's), (Start: 29 @12648 has 3 MA's), (92, 12960), (117, 13035),

Gene: Magnito_16 Start: 12388, Stop: 12837, Start Num: 23
Candidate Starts for Magnito_16:
(Start: 23 @12388 has 221 MA's), (Start: 29 @12412 has 3 MA's), (92, 12724), (117, 12799),

Gene: Makemake_17 Start: 14117, Stop: 14566, Start Num: 23
Candidate Starts for Makemake_17:
(Start: 23 @14117 has 221 MA's), (Start: 29 @14141 has 3 MA's), (92, 14453), (117, 14528),

Gene: Manatee_18 Start: 13139, Stop: 13588, Start Num: 23
Candidate Starts for Manatee_18:
(Start: 23 @13139 has 221 MA's), (Start: 29 @13163 has 3 MA's), (92, 13475), (117, 13550),

Gene: Maneekul_11 Start: 8366, Stop: 8815, Start Num: 22
Candidate Starts for Maneekul_11:
(Start: 6 @8309 has 1 MA's), (Start: 22 @8366 has 198 MA's), (66, 8555), (114, 8759),

Gene: Marav_14 Start: 9092, Stop: 9568, Start Num: 22
Candidate Starts for Marav_14:
(Start: 22 @9092 has 198 MA's), (51, 9212), (57, 9254), (66, 9290), (103, 9482), (127, 9554),

Gene: Marcell_17 Start: 13137, Stop: 13586, Start Num: 23
Candidate Starts for Marcell_17:
(Start: 23 @13137 has 221 MA's), (Start: 29 @13161 has 3 MA's), (92, 13473), (117, 13548),

Gene: Marchy_16 Start: 12467, Stop: 12916, Start Num: 23

Candidate Starts for Marchy_16:
(Start: 23 @12467 has 221 MA's), (Start: 29 @12491 has 3 MA's), (92, 12803), (117, 12878),

Gene: Marco3_17 Start: 13112, Stop: 13561, Start Num: 23
Candidate Starts for Marco3_17:
(Start: 23 @13112 has 221 MA's), (Start: 29 @13136 has 3 MA's), (92, 13448), (117, 13523),

Gene: Marge_18 Start: 13363, Stop: 13812, Start Num: 23
Candidate Starts for Marge_18:
(Start: 23 @13363 has 221 MA's), (Start: 29 @13387 has 3 MA's), (92, 13699), (117, 13774),

Gene: Maroc7_16 Start: 12649, Stop: 13098, Start Num: 23
Candidate Starts for Maroc7_16:
(Start: 23 @12649 has 221 MA's), (Start: 29 @12673 has 3 MA's), (92, 12985), (117, 13060),

Gene: Marsha_17 Start: 13405, Stop: 13854, Start Num: 23
Candidate Starts for Marsha_17:
(Start: 23 @13405 has 221 MA's), (Start: 29 @13429 has 3 MA's), (92, 13741), (117, 13816),

Gene: MaryBeth_17 Start: 13071, Stop: 13520, Start Num: 23
Candidate Starts for MaryBeth_17:
(Start: 23 @13071 has 221 MA's), (Start: 29 @13095 has 3 MA's), (92, 13407), (117, 13482),

Gene: MaryV_31 Start: 14135, Stop: 14611, Start Num: 22
Candidate Starts for MaryV_31:
(Start: 22 @14135 has 198 MA's), (26, 14147), (39, 14219), (44, 14237), (48, 14261), (67, 14360), (70, 14369), (76, 14399), (97, 14486), (109, 14531), (115, 14558), (118, 14564),

Gene: Maureen_7 Start: 6336, Stop: 6731, Start Num: 14
Candidate Starts for Maureen_7:
(Start: 14 @6336 has 93 MA's), (60, 6528), (83, 6657),

Gene: McGuire_18 Start: 12958, Stop: 13407, Start Num: 23
Candidate Starts for McGuire_18:
(Start: 23 @12958 has 221 MA's), (Start: 29 @12982 has 3 MA's), (92, 13294), (117, 13369),

Gene: McSinger_18 Start: 13332, Stop: 13781, Start Num: 23
Candidate Starts for McSinger_18:
(Start: 23 @13332 has 221 MA's), (Start: 29 @13356 has 3 MA's), (92, 13668), (117, 13743),

Gene: MetalQZJ_17 Start: 13071, Stop: 13520, Start Num: 23
Candidate Starts for MetalQZJ_17:
(Start: 23 @13071 has 221 MA's), (Start: 29 @13095 has 3 MA's), (92, 13407), (117, 13482),

Gene: Michkear_11 Start: 9850, Stop: 10287, Start Num: 14
Candidate Starts for Michkear_11:
(Start: 14 @9850 has 93 MA's),

Gene: Michley_17 Start: 12818, Stop: 13267, Start Num: 23
Candidate Starts for Michley_17:
(Start: 23 @12818 has 221 MA's), (Start: 29 @12842 has 3 MA's), (92, 13154), (117, 13229),

Gene: Miley16_9 Start: 7231, Stop: 7695, Start Num: 22

Candidate Starts for Miley16_9:
(Start: 22 @7231 has 198 MA's), (Start: 29 @7258 has 3 MA's), (Start: 32 @7270 has 1 MA's), (46, 7345), (48, 7348), (57, 7396), (61, 7408), (62, 7411), (72, 7465), (94, 7570), (113, 7642), (123, 7681), (125, 7684),

Gene: MilleFeuille_16 Start: 12395, Stop: 12844, Start Num: 23
Candidate Starts for MilleFeuille_16:
(Start: 23 @12395 has 221 MA's), (Start: 29 @12419 has 3 MA's), (92, 12731), (117, 12806),

Gene: MiniLon_10 Start: 7378, Stop: 7854, Start Num: 22
Candidate Starts for MiniLon_10:
(Start: 22 @7378 has 198 MA's), (Start: 32 @7417 has 1 MA's), (42, 7468), (46, 7498), (48, 7501), (57, 7549), (60, 7558), (61, 7561), (62, 7564), (72, 7618), (74, 7633), (83, 7678), (90, 7714),

Gene: MiniMac_10 Start: 7379, Stop: 7855, Start Num: 22
Candidate Starts for MiniMac_10:
(Start: 22 @7379 has 198 MA's), (Start: 32 @7418 has 1 MA's), (42, 7469), (46, 7499), (48, 7502), (57, 7550), (60, 7559), (61, 7562), (62, 7565), (72, 7619), (74, 7634), (83, 7679), (90, 7715),

Gene: MiniMommy_7 Start: 6172, Stop: 6573, Start Num: 14
Candidate Starts for MiniMommy_7:
(Start: 14 @6172 has 93 MA's), (67, 6409),

Gene: MissSwiss_8 Start: 7857, Stop: 8261, Start Num: 14
Candidate Starts for MissSwiss_8:
(Start: 14 @7857 has 93 MA's), (50, 7992), (56, 8037), (60, 8049),

Gene: MkaliMitinis3_9 Start: 7231, Stop: 7695, Start Num: 22
Candidate Starts for MkaliMitinis3_9:
(Start: 22 @7231 has 198 MA's), (Start: 29 @7258 has 3 MA's), (Start: 32 @7270 has 1 MA's), (46, 7345), (48, 7348), (57, 7396), (61, 7408), (62, 7411), (72, 7465), (94, 7570), (113, 7642), (123, 7681), (125, 7684),

Gene: Mkhuseli_18 Start: 12972, Stop: 13421, Start Num: 23
Candidate Starts for Mkhuseli_18:
(Start: 23 @12972 has 221 MA's), (Start: 29 @12996 has 3 MA's), (92, 13308), (117, 13383),

Gene: Molivier_9 Start: 7237, Stop: 7701, Start Num: 22
Candidate Starts for Molivier_9:
(Start: 22 @7237 has 198 MA's), (Start: 29 @7264 has 3 MA's), (Start: 32 @7276 has 1 MA's), (46, 7351), (48, 7354), (57, 7402), (61, 7414), (62, 7417), (72, 7471), (94, 7576), (113, 7648), (123, 7687), (125, 7690),

Gene: Molly_18 Start: 12679, Stop: 13128, Start Num: 23
Candidate Starts for Molly_18:
(Start: 23 @12679 has 221 MA's), (Start: 29 @12703 has 3 MA's), (92, 13015), (117, 13090),

Gene: Monet_19 Start: 14174, Stop: 14623, Start Num: 23
Candidate Starts for Monet_19:
(Start: 23 @14174 has 221 MA's), (Start: 29 @14198 has 3 MA's), (92, 14510), (117, 14585),

Gene: Moose_16 Start: 12915, Stop: 13364, Start Num: 23
Candidate Starts for Moose_16:

(Start: 23 @12915 has 221 MA's), (Start: 29 @12939 has 3 MA's), (92, 13251), (117, 13326),

Gene: Moostard_10 Start: 7367, Stop: 7843, Start Num: 22
Candidate Starts for Moostard_10:
(Start: 22 @7367 has 198 MA's), (Start: 32 @7406 has 1 MA's), (42, 7457), (46, 7487), (48, 7490), (57, 7538), (60, 7547), (61, 7550), (62, 7553), (72, 7607), (74, 7622), (83, 7667), (90, 7703),

Gene: Moss_8 Start: 7343, Stop: 7810, Start Num: 14
Candidate Starts for Moss_8:
(2, 7292), (Start: 14 @7343 has 93 MA's), (58, 7535), (74, 7616),

Gene: MrGordo_17 Start: 12631, Stop: 13080, Start Num: 23
Candidate Starts for MrGordo_17:
(Start: 23 @12631 has 221 MA's), (Start: 29 @12655 has 3 MA's), (92, 12967), (117, 13042),

Gene: MrMagoo_23 Start: 11567, Stop: 12049, Start Num: 17
Candidate Starts for MrMagoo_23:
(Start: 17 @11567 has 22 MA's), (Start: 32 @11618 has 1 MA's), (44, 11672), (57, 11747), (101, 11951), (111, 11975),

Gene: Mryolo_16 Start: 12665, Stop: 13114, Start Num: 23
Candidate Starts for Mryolo_16:
(Start: 23 @12665 has 221 MA's), (Start: 29 @12689 has 3 MA's), (92, 13001), (117, 13076),

Gene: MsGreen_10 Start: 7371, Stop: 7847, Start Num: 22
Candidate Starts for MsGreen_10:
(Start: 22 @7371 has 198 MA's), (Start: 32 @7410 has 1 MA's), (42, 7461), (46, 7491), (48, 7494), (57, 7542), (60, 7551), (61, 7554), (62, 7557), (72, 7611), (74, 7626), (83, 7671), (90, 7707),

Gene: Mudpuppy_8 Start: 7842, Stop: 8249, Start Num: 14
Candidate Starts for Mudpuppy_8:
(Start: 14 @7842 has 93 MA's), (60, 8034),

Gene: Mule_17 Start: 12953, Stop: 13402, Start Num: 23
Candidate Starts for Mule_17:
(Start: 23 @12953 has 221 MA's), (Start: 29 @12977 has 3 MA's), (92, 13289), (117, 13364),

Gene: Museum_19 Start: 12972, Stop: 13421, Start Num: 23
Candidate Starts for Museum_19:
(Start: 23 @12972 has 221 MA's), (Start: 29 @12996 has 3 MA's), (92, 13308), (117, 13383),

Gene: Mysterium_8 Start: 7344, Stop: 7811, Start Num: 14
Candidate Starts for Mysterium_8:
(2, 7293), (Start: 14 @7344 has 93 MA's), (58, 7536), (74, 7617),

Gene: NEHalo_17 Start: 12701, Stop: 13150, Start Num: 23
Candidate Starts for NEHalo_17:
(Start: 23 @12701 has 221 MA's), (Start: 29 @12725 has 3 MA's), (92, 13037), (117, 13112),

Gene: Nabi_11 Start: 8361, Stop: 8804, Start Num: 22
Candidate Starts for Nabi_11:
(Start: 6 @8304 has 1 MA's), (Start: 22 @8361 has 198 MA's), (66, 8544), (114, 8748),

Gene: Naira_18 Start: 14453, Stop: 14902, Start Num: 23
Candidate Starts for Naira_18:
(Start: 23 @14453 has 221 MA's), (Start: 29 @14477 has 3 MA's), (92, 14789), (117, 14864),

Gene: Nanodon_13 Start: 8557, Stop: 9006, Start Num: 22
Candidate Starts for Nanodon_13:
(Start: 22 @8557 has 198 MA's), (66, 8746),

Gene: Nanosmite_23 Start: 11785, Stop: 12267, Start Num: 17
Candidate Starts for Nanosmite_23:
(15, 11779), (Start: 17 @11785 has 22 MA's), (24, 11806), (Start: 32 @11836 has 1 MA's), (57, 11965), (111, 12193),

Gene: Nerdos_11 Start: 8395, Stop: 8847, Start Num: 22
Candidate Starts for Nerdos_11:
(10, 8356), (Start: 22 @8395 has 198 MA's), (66, 8587), (96, 8743),

Gene: Nerujay_18 Start: 13377, Stop: 13826, Start Num: 23
Candidate Starts for Nerujay_18:
(Start: 23 @13377 has 221 MA's), (Start: 29 @13401 has 3 MA's), (92, 13713), (117, 13788),

Gene: Netyap_9 Start: 7231, Stop: 7695, Start Num: 22
Candidate Starts for Netyap_9:
(Start: 22 @7231 has 198 MA's), (Start: 29 @7258 has 3 MA's), (Start: 32 @7270 has 1 MA's), (46, 7345), (48, 7348), (57, 7396), (61, 7408), (62, 7411), (72, 7465), (94, 7570), (113, 7642), (123, 7681), (125, 7684),

Gene: Neville_17 Start: 10452, Stop: 10922, Start Num: 22
Candidate Starts for Neville_17:
(Start: 22 @10452 has 198 MA's), (61, 10653), (62, 10656), (63, 10659), (64, 10668), (65, 10674), (69, 10701), (84, 10785), (107, 10869), (115, 10899), (118, 10905),

Gene: Nhonho_17 Start: 13130, Stop: 13579, Start Num: 23
Candidate Starts for Nhonho_17:
(Start: 23 @13130 has 221 MA's), (Start: 29 @13154 has 3 MA's), (92, 13466), (117, 13541),

Gene: Nicholas_10 Start: 7371, Stop: 7847, Start Num: 22
Candidate Starts for Nicholas_10:
(Start: 22 @7371 has 198 MA's), (Start: 32 @7410 has 1 MA's), (42, 7461), (46, 7491), (48, 7494), (57, 7542), (60, 7551), (61, 7554), (62, 7557), (72, 7611), (74, 7626), (83, 7671), (90, 7707),

Gene: Nicholasp3_9 Start: 7231, Stop: 7695, Start Num: 22
Candidate Starts for Nicholasp3_9:
(Start: 22 @7231 has 198 MA's), (Start: 29 @7258 has 3 MA's), (Start: 32 @7270 has 1 MA's), (46, 7345), (48, 7348), (57, 7396), (61, 7408), (62, 7411), (72, 7465), (94, 7570), (113, 7642), (123, 7681), (125, 7684),

Gene: Niobe_8 Start: 7827, Stop: 8234, Start Num: 14
Candidate Starts for Niobe_8:
(Start: 14 @7827 has 93 MA's), (59, 8016), (60, 8019), (62, 8025), (67, 8064),

Gene: Nishikigoi_11 Start: 8160, Stop: 8636, Start Num: 22
Candidate Starts for Nishikigoi_11:

(Start: 22 @8160 has 198 MA's), (57, 8322), (66, 8358),

Gene: Nitro_8 Start: 7844, Stop: 8251, Start Num: 14
Candidate Starts for Nitro_8:
(Start: 14 @7844 has 93 MA's), (60, 8036), (67, 8081),

Gene: Niza_19 Start: 13988, Stop: 14437, Start Num: 23
Candidate Starts for Niza_19:
(Start: 23 @13988 has 221 MA's), (Start: 29 @14012 has 3 MA's), (92, 14324), (117, 14399),

Gene: Norz_19 Start: 13624, Stop: 14073, Start Num: 23
Candidate Starts for Norz_19:
(Start: 23 @13624 has 221 MA's), (Start: 29 @13648 has 3 MA's), (117, 14035),

Gene: Noxious_19 Start: 13939, Stop: 14388, Start Num: 23
Candidate Starts for Noxious_19:
(Start: 23 @13939 has 221 MA's), (Start: 29 @13963 has 3 MA's), (92, 14275), (117, 14350),

Gene: ObiToo_8 Start: 8041, Stop: 8436, Start Num: 14
Candidate Starts for ObiToo_8:
(Start: 14 @8041 has 93 MA's), (56, 8221), (60, 8233), (67, 8278),

Gene: Octobien14_18 Start: 11707, Stop: 12174, Start Num: 22
Candidate Starts for Octobien14_18:
(21, 11704), (Start: 22 @11707 has 198 MA's), (25, 11716), (Start: 32 @11746 has 1 MA's), (38, 11782), (57, 11875), (61, 11887), (62, 11890), (75, 11965), (90, 12049), (93, 12055), (94, 12058), (96, 12064), (115, 12139), (118, 12145),

Gene: OhShagHennessy_9 Start: 7220, Stop: 7687, Start Num: 22
Candidate Starts for OhShagHennessy_9:
(Start: 22 @7220 has 198 MA's), (Start: 29 @7247 has 3 MA's), (Start: 32 @7259 has 1 MA's), (42, 7304), (45, 7316), (46, 7334), (48, 7337), (57, 7385), (61, 7397), (62, 7400), (72, 7454), (83, 7514), (94, 7559), (121, 7670), (123, 7673), (125, 7676),

Gene: Ohno789_17 Start: 12771, Stop: 13220, Start Num: 23
Candidate Starts for Ohno789_17:
(Start: 23 @12771 has 221 MA's), (Start: 29 @12795 has 3 MA's), (92, 13107), (117, 13182),

Gene: Oliynyk_12 Start: 8558, Stop: 9010, Start Num: 22
Candidate Starts for Oliynyk_12:
(10, 8519), (Start: 22 @8558 has 198 MA's), (66, 8750), (96, 8906),

Gene: Omar_12 Start: 8382, Stop: 8870, Start Num: 22
Candidate Starts for Omar_12:
(Start: 22 @8382 has 198 MA's), (57, 8544), (66, 8580), (80, 8667), (98, 8742), (119, 8811),

Gene: Oogway_16 Start: 12883, Stop: 13332, Start Num: 23
Candidate Starts for Oogway_16:
(Start: 23 @12883 has 221 MA's), (92, 13219), (117, 13294),

Gene: Origami_7 Start: 6168, Stop: 6569, Start Num: 14
Candidate Starts for Origami_7:
(Start: 14 @6168 has 93 MA's), (60, 6360), (67, 6405),

Gene: OverPar_9 Start: 7264, Stop: 7728, Start Num: 22
Candidate Starts for OverPar_9:
(Start: 22 @7264 has 198 MA's), (Start: 29 @7291 has 3 MA's), (Start: 32 @7303 has 1 MA's), (46, 7378), (48, 7381), (57, 7429), (61, 7441), (62, 7444), (72, 7498), (94, 7603), (113, 7675), (123, 7714), (125, 7717),

Gene: Ozzie_11 Start: 8375, Stop: 8827, Start Num: 22
Candidate Starts for Ozzie_11:
(10, 8336), (Start: 22 @8375 has 198 MA's), (66, 8567), (96, 8723),

Gene: OzzyJ_12 Start: 8358, Stop: 8807, Start Num: 22
Candidate Starts for OzzyJ_12:
(Start: 6 @8301 has 1 MA's), (Start: 22 @8358 has 198 MA's), (66, 8547), (114, 8751),

Gene: PSullivan_19 Start: 13381, Stop: 13830, Start Num: 23
Candidate Starts for PSullivan_19:
(Start: 23 @13381 has 221 MA's), (Start: 29 @13405 has 3 MA's), (92, 13717), (117, 13792),

Gene: PYPDinur_9 Start: 6911, Stop: 7375, Start Num: 22
Candidate Starts for PYPDinur_9:
(Start: 22 @6911 has 198 MA's), (Start: 32 @6950 has 1 MA's), (35, 6959), (48, 7028), (52, 7040), (57, 7076), (60, 7085), (61, 7088), (62, 7091), (72, 7145), (91, 7244), (94, 7250), (113, 7322), (123, 7361), (125, 7364),

Gene: Pablito_11 Start: 8226, Stop: 8696, Start Num: 22
Candidate Starts for Pablito_11:
(Start: 5 @8163 has 1 MA's), (8, 8178), (Start: 22 @8226 has 198 MA's), (66, 8424), (80, 8511), (86, 8538), (98, 8586),

Gene: PacerPaul_17 Start: 13148, Stop: 13597, Start Num: 23
Candidate Starts for PacerPaul_17:
(Start: 23 @13148 has 221 MA's), (92, 13484), (117, 13559),

Gene: Paedore_11 Start: 8254, Stop: 8751, Start Num: 22
Candidate Starts for Paedore_11:
(Start: 22 @8254 has 198 MA's), (60, 8425), (66, 8452), (86, 8566), (96, 8608), (98, 8614), (127, 8737),

Gene: PandaPo_8 Start: 7857, Stop: 8261, Start Num: 14
Candidate Starts for PandaPo_8:
(Start: 14 @7857 has 93 MA's), (50, 7992), (56, 8037), (60, 8049),

Gene: Paolo_13 Start: 8769, Stop: 9245, Start Num: 22
Candidate Starts for Paolo_13:
(Start: 5 @8706 has 1 MA's), (8, 8721), (Start: 22 @8769 has 198 MA's), (51, 8889), (66, 8967), (103, 9159), (127, 9231),

Gene: Papez_19 Start: 14600, Stop: 15049, Start Num: 23
Candidate Starts for Papez_19:
(Start: 23 @14600 has 221 MA's), (Start: 29 @14624 has 3 MA's), (92, 14936), (117, 15011),

Gene: Paphu_16 Start: 12337, Stop: 12786, Start Num: 23
Candidate Starts for Paphu_16:

(Start: 23 @12337 has 221 MA's), (Start: 29 @12361 has 3 MA's), (92, 12673), (117, 12748),

Gene: Paraselene_16 Start: 12653, Stop: 13102, Start Num: 23
Candidate Starts for Paraselene_16:
(Start: 23 @12653 has 221 MA's), (Start: 29 @12677 has 3 MA's), (92, 12989), (117, 13064),

Gene: Pari_18 Start: 13128, Stop: 13577, Start Num: 23
Candidate Starts for Pari_18:
(Start: 23 @13128 has 221 MA's), (Start: 29 @13152 has 3 MA's), (92, 13464), (117, 13539),

Gene: Parliament_16 Start: 13017, Stop: 13466, Start Num: 23
Candidate Starts for Parliament_16:
(Start: 23 @13017 has 221 MA's), (Start: 29 @13041 has 3 MA's), (92, 13353), (117, 13428),

Gene: PascalRango_16 Start: 12572, Stop: 13021, Start Num: 23
Candidate Starts for PascalRango_16:
(Start: 23 @12572 has 221 MA's), (92, 12908), (117, 12983),

Gene: PattyP_19 Start: 13181, Stop: 13630, Start Num: 23
Candidate Starts for PattyP_19:
(Start: 23 @13181 has 221 MA's), (Start: 29 @13205 has 3 MA's), (92, 13517), (117, 13592),

Gene: Pavo_12 Start: 8437, Stop: 8898, Start Num: 22
Candidate Starts for Pavo_12:
(Start: 22 @8437 has 198 MA's), (28, 8452), (66, 8626), (96, 8782), (127, 8884),

Gene: Payneful_17 Start: 12467, Stop: 12916, Start Num: 23
Candidate Starts for Payneful_17:
(Start: 23 @12467 has 221 MA's), (Start: 29 @12491 has 3 MA's), (92, 12803), (117, 12878),

Gene: PegLeg_19 Start: 11030, Stop: 11512, Start Num: 17
Candidate Starts for PegLeg_19:
(Start: 17 @11030 has 22 MA's), (Start: 32 @11081 has 1 MA's), (57, 11210), (101, 11414), (111, 11438),

Gene: Pelly_18 Start: 13417, Stop: 13866, Start Num: 23
Candidate Starts for Pelly_18:
(Start: 23 @13417 has 221 MA's), (Start: 29 @13441 has 3 MA's), (92, 13753), (117, 13828),

Gene: Pepe_18 Start: 13372, Stop: 13821, Start Num: 23
Candidate Starts for Pepe_18:
(Start: 23 @13372 has 221 MA's), (Start: 29 @13396 has 3 MA's), (92, 13708), (117, 13783),

Gene: Percival_8 Start: 8037, Stop: 8525, Start Num: 14
Candidate Starts for Percival_8:
(Start: 14 @8037 has 93 MA's), (30, 8082), (60, 8232), (74, 8307), (81, 8352), (104, 8445),

Gene: Perseus_18 Start: 13036, Stop: 13485, Start Num: 23
Candidate Starts for Perseus_18:
(Start: 23 @13036 has 221 MA's), (Start: 29 @13060 has 3 MA's), (92, 13372), (117, 13447),

Gene: Peterson_20 Start: 14627, Stop: 15076, Start Num: 23
Candidate Starts for Peterson_20:

(Start: 23 @14627 has 221 MA's), (Start: 29 @14651 has 3 MA's), (92, 14963), (117, 15038),

Gene: Petp2012_19 Start: 13849, Stop: 14298, Start Num: 23
Candidate Starts for Petp2012_19:
(Start: 23 @13849 has 221 MA's), (Start: 29 @13873 has 3 MA's), (92, 14185), (117, 14260),

Gene: Petruchio_17 Start: 12878, Stop: 13327, Start Num: 23
Candidate Starts for Petruchio_17:
(Start: 23 @12878 has 221 MA's), (Start: 29 @12902 has 3 MA's), (92, 13214), (117, 13289),

Gene: PherrisBueller_18 Start: 12801, Stop: 13250, Start Num: 23
Candidate Starts for PherrisBueller_18:
(Start: 23 @12801 has 221 MA's), (Start: 29 @12825 has 3 MA's), (117, 13212),

Gene: Phettuccine_11 Start: 8395, Stop: 8847, Start Num: 22
Candidate Starts for Phettuccine_11:
(10, 8356), (Start: 22 @8395 has 198 MA's), (66, 8587), (96, 8743),

Gene: PhineBark_16 Start: 13692, Stop: 14141, Start Num: 23
Candidate Starts for PhineBark_16:
(Start: 23 @13692 has 221 MA's), (Start: 29 @13716 has 3 MA's), (92, 14028), (117, 14103),

Gene: Phives_9 Start: 8933, Stop: 9340, Start Num: 14
Candidate Starts for Phives_9:
(Start: 14 @8933 has 93 MA's), (50, 9068), (60, 9125), (67, 9170),

Gene: Phlippers_16 Start: 13872, Stop: 14321, Start Num: 23
Candidate Starts for Phlippers_16:
(Start: 23 @13872 has 221 MA's), (Start: 29 @13896 has 3 MA's), (92, 14208), (117, 14283),

Gene: PhrostyMug_17 Start: 12950, Stop: 13399, Start Num: 23
Candidate Starts for PhrostyMug_17:
(Start: 23 @12950 has 221 MA's), (Start: 29 @12974 has 3 MA's), (92, 13286), (117, 13361),

Gene: PinkPlastic_16 Start: 12715, Stop: 13164, Start Num: 23
Candidate Starts for PinkPlastic_16:
(Start: 23 @12715 has 221 MA's), (Start: 29 @12739 has 3 MA's), (92, 13051), (117, 13126),

Gene: Pinto_19 Start: 13032, Stop: 13481, Start Num: 23
Candidate Starts for Pinto_19:
(Start: 23 @13032 has 221 MA's), (Start: 29 @13056 has 3 MA's), (92, 13368), (117, 13443),

Gene: Pippin_19 Start: 13284, Stop: 13733, Start Num: 23
Candidate Starts for Pippin_19:
(Start: 23 @13284 has 221 MA's), (92, 13620), (117, 13695),

Gene: Pita2_19 Start: 13381, Stop: 13830, Start Num: 23
Candidate Starts for Pita2_19:
(Start: 23 @13381 has 221 MA's), (Start: 29 @13405 has 3 MA's), (92, 13717), (117, 13792),

Gene: Pixelle_8 Start: 7876, Stop: 8283, Start Num: 14
Candidate Starts for Pixelle_8:
(Start: 14 @7876 has 93 MA's), (50, 8011), (60, 8068), (67, 8113),

Gene: Poochiewood_9 Start: 7246, Stop: 7713, Start Num: 22
Candidate Starts for Poochiewood_9:
(Start: 22 @7246 has 198 MA's), (Start: 29 @7273 has 3 MA's), (Start: 32 @7285 has 1 MA's), (42, 7330), (45, 7342), (46, 7360), (48, 7363), (57, 7411), (61, 7423), (62, 7426), (72, 7480), (83, 7540), (94, 7585), (121, 7696), (123, 7699), (125, 7702),

Gene: PowerRanger_17 Start: 13508, Stop: 13957, Start Num: 23
Candidate Starts for PowerRanger_17:
(Start: 23 @13508 has 221 MA's), (Start: 29 @13532 has 3 MA's), (92, 13844), (117, 13919),

Gene: Powerpuff_8 Start: 7893, Stop: 8300, Start Num: 14
Candidate Starts for Powerpuff_8:
(Start: 14 @7893 has 93 MA's), (60, 8085),

Gene: ProMouse_18 Start: 13357, Stop: 13806, Start Num: 23
Candidate Starts for ProMouse_18:
(Start: 23 @13357 has 221 MA's), (Start: 29 @13381 has 3 MA's), (92, 13693), (117, 13768),

Gene: Provolone_12 Start: 8167, Stop: 8628, Start Num: 22
Candidate Starts for Provolone_12:
(Start: 22 @8167 has 198 MA's), (28, 8182), (66, 8356), (96, 8512), (127, 8614),

Gene: Puginator_13 Start: 8715, Stop: 9191, Start Num: 22
Candidate Starts for Puginator_13:
(Start: 22 @8715 has 198 MA's), (51, 8835), (66, 8913), (127, 9177),

Gene: Pumpkins_8 Start: 7958, Stop: 8353, Start Num: 14
Candidate Starts for Pumpkins_8:
(Start: 14 @7958 has 93 MA's), (60, 8150), (67, 8195),

Gene: Puppet_17 Start: 12954, Stop: 13403, Start Num: 23
Candidate Starts for Puppet_17:
(Start: 23 @12954 has 221 MA's), (92, 13290), (117, 13365),

Gene: QTRlifeCrisis_17 Start: 13358, Stop: 13807, Start Num: 23
Candidate Starts for QTRlifeCrisis_17:
(Start: 23 @13358 has 221 MA's), (Start: 29 @13382 has 3 MA's), (92, 13694), (117, 13769),

Gene: Quby_9 Start: 6910, Stop: 7374, Start Num: 22
Candidate Starts for Quby_9:
(Start: 22 @6910 has 198 MA's), (Start: 32 @6949 has 1 MA's), (35, 6958), (46, 7024), (48, 7027), (52, 7039), (57, 7075), (60, 7084), (61, 7087), (62, 7090), (72, 7144), (91, 7243), (94, 7249), (113, 7321), (123, 7360), (125, 7363),

Gene: R4_11 Start: 8225, Stop: 8722, Start Num: 22
Candidate Starts for R4_11:
(Start: 22 @8225 has 198 MA's), (60, 8396), (66, 8423), (86, 8537), (96, 8579), (98, 8585), (127, 8708),

Gene: Rabbitrun_19 Start: 10976, Stop: 11446, Start Num: 22
Candidate Starts for Rabbitrun_19:
(Start: 22 @10976 has 198 MA's), (Start: 32 @11015 has 1 MA's), (57, 11165), (64, 11192), (65, 11198), (68, 11222), (83, 11303), (84, 11309), (94, 11342), (107, 11393), (115, 11423), (118, 11429),

Gene: Raid_17 Start: 12642, Stop: 13091, Start Num: 23
Candidate Starts for Raid_17:
(Start: 23 @12642 has 221 MA's), (Start: 29 @12666 has 3 MA's), (92, 12978), (117, 13053),

Gene: Rajelicia_17 Start: 13166, Stop: 13615, Start Num: 23
Candidate Starts for Rajelicia_17:
(Start: 23 @13166 has 221 MA's), (Start: 29 @13190 has 3 MA's), (92, 13502), (117, 13577),

Gene: Rana_11 Start: 8361, Stop: 8804, Start Num: 22
Candidate Starts for Rana_11:
(Start: 6 @8304 has 1 MA's), (Start: 22 @8361 has 198 MA's), (66, 8544), (114, 8748),

Gene: Red305_10 Start: 7371, Stop: 7847, Start Num: 22
Candidate Starts for Red305_10:
(Start: 22 @7371 has 198 MA's), (Start: 32 @7410 has 1 MA's), (42, 7461), (46, 7491), (48, 7494), (57, 7542), (60, 7551), (61, 7554), (62, 7557), (72, 7611), (74, 7626), (83, 7671), (90, 7707),

Gene: RedBear_13 Start: 8637, Stop: 9086, Start Num: 22
Candidate Starts for RedBear_13:
(Start: 6 @8580 has 1 MA's), (Start: 22 @8637 has 198 MA's), (66, 8826),

Gene: Reedo_8 Start: 7890, Stop: 8297, Start Num: 14
Candidate Starts for Reedo_8:
(Start: 14 @7890 has 93 MA's), (56, 8070),

Gene: Reindeer_17 Start: 10883, Stop: 11365, Start Num: 17
Candidate Starts for Reindeer_17:
(Start: 17 @10883 has 22 MA's), (Start: 32 @10934 has 1 MA's), (37, 10961), (52, 11024), (57, 11063), (101, 11267), (111, 11291),

Gene: Rey_23 Start: 11802, Stop: 12284, Start Num: 17
Candidate Starts for Rey_23:
(Start: 17 @11802 has 22 MA's), (Start: 32 @11853 has 1 MA's), (44, 11907), (57, 11982), (101, 12186), (111, 12210),

Gene: Rhynn_17 Start: 12959, Stop: 13408, Start Num: 23
Candidate Starts for Rhynn_17:
(Start: 23 @12959 has 221 MA's), (Start: 29 @12983 has 3 MA's), (92, 13295), (117, 13370),

Gene: RidgeCB_17 Start: 12733, Stop: 13182, Start Num: 23
Candidate Starts for RidgeCB_17:
(Start: 23 @12733 has 221 MA's), (Start: 29 @12757 has 3 MA's), (92, 13069), (117, 13144),

Gene: Ringer_17 Start: 13217, Stop: 13666, Start Num: 23
Candidate Starts for Ringer_17:
(Start: 23 @13217 has 221 MA's), (Start: 29 @13241 has 3 MA's), (92, 13553), (117, 13628),

Gene: RockScotty_8 Start: 7343, Stop: 7810, Start Num: 14
Candidate Starts for RockScotty_8:
(2, 7292), (Start: 14 @7343 has 93 MA's), (58, 7535), (74, 7616),

Gene: Rohr_18 Start: 13156, Stop: 13605, Start Num: 23

Candidate Starts for Rohr_18:
(Start: 23 @13156 has 221 MA's), (Start: 29 @13180 has 3 MA's), (92, 13492), (117, 13567),

Gene: Rose5_9 Start: 7246, Stop: 7713, Start Num: 22
Candidate Starts for Rose5_9:
(Start: 22 @7246 has 198 MA's), (Start: 29 @7273 has 3 MA's), (Start: 32 @7285 has 1 MA's), (42, 7330), (45, 7342), (46, 7360), (48, 7363), (57, 7411), (61, 7423), (62, 7426), (72, 7480), (83, 7540), (94, 7585), (121, 7696), (123, 7699), (125, 7702),

Gene: RoseMarie_19 Start: 11274, Stop: 11756, Start Num: 17
Candidate Starts for RoseMarie_19:
(Start: 17 @11274 has 22 MA's), (Start: 32 @11325 has 1 MA's), (37, 11352), (57, 11454), (101, 11658), (111, 11682),

Gene: Rossetti_9 Start: 7231, Stop: 7695, Start Num: 22
Candidate Starts for Rossetti_9:
(Start: 22 @7231 has 198 MA's), (Start: 29 @7258 has 3 MA's), (Start: 32 @7270 has 1 MA's), (46, 7345), (48, 7348), (57, 7396), (61, 7408), (62, 7411), (72, 7465), (83, 7525), (94, 7570), (113, 7642), (123, 7681), (125, 7684),

Gene: Rubeus_18 Start: 12991, Stop: 13440, Start Num: 23
Candidate Starts for Rubeus_18:
(Start: 23 @12991 has 221 MA's), (Start: 29 @13015 has 3 MA's), (92, 13327), (117, 13402),

Gene: Rufus_18 Start: 13324, Stop: 13773, Start Num: 23
Candidate Starts for Rufus_18:
(Start: 23 @13324 has 221 MA's), (Start: 29 @13348 has 3 MA's), (92, 13660), (117, 13735),

Gene: Rumpelstiltskin_9 Start: 7231, Stop: 7695, Start Num: 22
Candidate Starts for Rumpelstiltskin_9:
(Start: 22 @7231 has 198 MA's), (Start: 29 @7258 has 3 MA's), (Start: 32 @7270 has 1 MA's), (46, 7345), (48, 7348), (57, 7396), (61, 7408), (62, 7411), (72, 7465), (94, 7570), (113, 7642), (123, 7681), (125, 7684),

Gene: Rusticus_12 Start: 8558, Stop: 9010, Start Num: 22
Candidate Starts for Rusticus_12:
(10, 8519), (Start: 22 @8558 has 198 MA's), (66, 8750), (96, 8906),

Gene: Rutherferd_19 Start: 13504, Stop: 13953, Start Num: 23
Candidate Starts for Rutherferd_19:
(Start: 23 @13504 has 221 MA's), (Start: 29 @13528 has 3 MA's), (92, 13840), (117, 13915),

Gene: STLscum_18 Start: 13367, Stop: 13816, Start Num: 23
Candidate Starts for STLscum_18:
(Start: 23 @13367 has 221 MA's), (Start: 29 @13391 has 3 MA's), (92, 13703), (117, 13778),

Gene: Sabourin_8 Start: 7252, Stop: 7719, Start Num: 14
Candidate Starts for Sabourin_8:
(2, 7201), (Start: 14 @7252 has 93 MA's), (58, 7444), (74, 7525), (82, 7576),

Gene: Saftant_11 Start: 8442, Stop: 8903, Start Num: 22
Candidate Starts for Saftant_11:
(Start: 22 @8442 has 198 MA's), (66, 8631), (96, 8787), (126, 8874), (127, 8889),

Gene: Sagefire_18 Start: 13764, Stop: 14213, Start Num: 23
Candidate Starts for Sagefire_18:
(Start: 23 @13764 has 221 MA's), (Start: 29 @13788 has 3 MA's), (92, 14100), (117, 14175),

Gene: Samty_10 Start: 7367, Stop: 7843, Start Num: 22
Candidate Starts for Samty_10:
(Start: 22 @7367 has 198 MA's), (Start: 32 @7406 has 1 MA's), (42, 7457), (46, 7487), (48, 7490), (57, 7538), (60, 7547), (61, 7550), (62, 7553), (72, 7607), (74, 7622), (83, 7667), (90, 7703),

Gene: Sandaddy_16 Start: 12879, Stop: 13328, Start Num: 23
Candidate Starts for Sandaddy_16:
(Start: 23 @12879 has 221 MA's), (Start: 29 @12903 has 3 MA's), (92, 13215), (117, 13290),

Gene: Sanya_17 Start: 13541, Stop: 13990, Start Num: 23
Candidate Starts for Sanya_17:
(Start: 23 @13541 has 221 MA's), (Start: 29 @13565 has 3 MA's), (92, 13877), (117, 13952),

Gene: SarFire_17 Start: 13033, Stop: 13482, Start Num: 23
Candidate Starts for SarFire_17:
(Start: 23 @13033 has 221 MA's), (Start: 29 @13057 has 3 MA's), (92, 13369), (117, 13444),

Gene: SarahRose_11 Start: 8364, Stop: 8813, Start Num: 22
Candidate Starts for SarahRose_11:
(Start: 22 @8364 has 198 MA's), (66, 8553), (114, 8757),

Gene: Sarshaun_9 Start: 7264, Stop: 7728, Start Num: 22
Candidate Starts for Sarshaun_9:
(Start: 22 @7264 has 198 MA's), (Start: 29 @7291 has 3 MA's), (Start: 32 @7303 has 1 MA's), (46, 7378), (48, 7381), (57, 7429), (61, 7441), (62, 7444), (72, 7498), (94, 7603), (113, 7675), (123, 7714), (125, 7717),

Gene: Schaffner_8 Start: 7952, Stop: 8347, Start Num: 14
Candidate Starts for Schaffner_8:
(Start: 14 @7952 has 93 MA's), (60, 8144), (67, 8189),

Gene: Scowl_18 Start: 13430, Stop: 13879, Start Num: 23
Candidate Starts for Scowl_18:
(Start: 23 @13430 has 221 MA's), (Start: 29 @13454 has 3 MA's), (117, 13841),

Gene: Seabiscuit_19 Start: 12965, Stop: 13414, Start Num: 23
Candidate Starts for Seabiscuit_19:
(Start: 23 @12965 has 221 MA's), (Start: 29 @12989 has 3 MA's), (92, 13301), (117, 13376),

Gene: Seanderson_18 Start: 13400, Stop: 13849, Start Num: 23
Candidate Starts for Seanderson_18:
(Start: 23 @13400 has 221 MA's), (Start: 29 @13424 has 3 MA's), (92, 13736), (117, 13811),

Gene: Sephiroth_18 Start: 10815, Stop: 11282, Start Num: 22
Candidate Starts for Sephiroth_18:
(21, 10812), (Start: 22 @10815 has 198 MA's), (25, 10824), (Start: 32 @10854 has 1 MA's), (38, 10890), (43, 10908), (57, 10983), (61, 10995), (62, 10998), (75, 11073), (90, 11157), (93, 11163), (115, 11247), (118, 11253),

Gene: ShakeItOph_7 Start: 6172, Stop: 6573, Start Num: 14
Candidate Starts for ShakeItOph_7:
(Start: 14 @6172 has 93 MA's), (67, 6409),

Gene: Sheng711_9 Start: 6911, Stop: 7375, Start Num: 22
Candidate Starts for Sheng711_9:
(Start: 22 @6911 has 198 MA's), (Start: 32 @6950 has 1 MA's), (35, 6959), (48, 7028), (52, 7040), (57, 7076), (60, 7085), (61, 7088), (62, 7091), (72, 7145), (91, 7244), (94, 7250), (113, 7322), (123, 7361), (125, 7364),

Gene: ShortQueendom_17 Start: 12839, Stop: 13288, Start Num: 23
Candidate Starts for ShortQueendom_17:
(Start: 23 @12839 has 221 MA's), (Start: 29 @12863 has 3 MA's), (92, 13175), (117, 13250),

Gene: Sibs6_19 Start: 13476, Stop: 13925, Start Num: 23
Candidate Starts for Sibs6_19:
(Start: 23 @13476 has 221 MA's), (Start: 29 @13500 has 3 MA's), (92, 13812), (117, 13887),

Gene: Silverleaf_9 Start: 7246, Stop: 7713, Start Num: 22
Candidate Starts for Silverleaf_9:
(Start: 22 @7246 has 198 MA's), (Start: 29 @7273 has 3 MA's), (Start: 32 @7285 has 1 MA's), (42, 7330), (45, 7342), (46, 7360), (48, 7363), (57, 7411), (61, 7423), (62, 7426), (72, 7480), (83, 7540), (94, 7585), (121, 7696), (123, 7699), (125, 7702),

Gene: Simpson_8 Start: 7843, Stop: 8250, Start Num: 14
Candidate Starts for Simpson_8:
(Start: 14 @7843 has 93 MA's), (60, 8035),

Gene: Skelbel_8 Start: 7827, Stop: 8234, Start Num: 14
Candidate Starts for Skelbel_8:
(Start: 14 @7827 has 93 MA's), (59, 8016), (60, 8019), (62, 8025), (67, 8064),

Gene: SkiPole_19 Start: 13053, Stop: 13502, Start Num: 23
Candidate Starts for SkiPole_19:
(Start: 23 @13053 has 221 MA's), (Start: 29 @13077 has 3 MA's), (92, 13389), (117, 13464),

Gene: Skinny_20 Start: 11031, Stop: 11513, Start Num: 17
Candidate Starts for Skinny_20:
(Start: 17 @11031 has 22 MA's), (Start: 32 @11082 has 1 MA's), (57, 11211), (101, 11415), (111, 11439),

Gene: Slagathor_18 Start: 12828, Stop: 13277, Start Num: 23
Candidate Starts for Slagathor_18:
(Start: 23 @12828 has 221 MA's), (Start: 29 @12852 has 3 MA's), (92, 13164), (117, 13239),

Gene: SlimJimmy_18 Start: 11030, Stop: 11512, Start Num: 17
Candidate Starts for SlimJimmy_18:
(Start: 17 @11030 has 22 MA's), (Start: 32 @11081 has 1 MA's), (57, 11210), (101, 11414), (111, 11438),

Gene: Smairt_18 Start: 13659, Stop: 14108, Start Num: 23
Candidate Starts for Smairt_18:

(Start: 23 @13659 has 221 MA's), (Start: 29 @13683 has 3 MA's), (92, 13995), (117, 14070),

Gene: Smeagol_19 Start: 14248, Stop: 14697, Start Num: 23
Candidate Starts for Smeagol_19:
(Start: 23 @14248 has 221 MA's), (Start: 29 @14272 has 3 MA's), (92, 14584), (117, 14659),

Gene: Snazzy_15 Start: 12348, Stop: 12797, Start Num: 23
Candidate Starts for Snazzy_15:
(Start: 23 @12348 has 221 MA's), (Start: 29 @12372 has 3 MA's), (92, 12684), (117, 12759),

Gene: Snek_8 Start: 6968, Stop: 7366, Start Num: 14
Candidate Starts for Snek_8:
(Start: 14 @6968 has 93 MA's),

Gene: Snenia_10 Start: 7372, Stop: 7848, Start Num: 22
Candidate Starts for Snenia_10:
(Start: 22 @7372 has 198 MA's), (Start: 32 @7411 has 1 MA's), (42, 7462), (46, 7492), (48, 7495), (57, 7543), (60, 7552), (61, 7555), (62, 7558), (72, 7612), (74, 7627), (83, 7672), (90, 7708),

Gene: Snorlax_11 Start: 8364, Stop: 8813, Start Num: 22
Candidate Starts for Snorlax_11:
(Start: 22 @8364 has 198 MA's), (66, 8553), (114, 8757),

Gene: SoJulia_9 Start: 7231, Stop: 7695, Start Num: 22
Candidate Starts for SoJulia_9:
(Start: 22 @7231 has 198 MA's), (Start: 29 @7258 has 3 MA's), (Start: 32 @7270 has 1 MA's), (46, 7345), (48, 7348), (57, 7396), (61, 7408), (62, 7411), (72, 7465), (94, 7570), (113, 7642), (123, 7681), (125, 7684),

Gene: Soap141_9 Start: 7264, Stop: 7728, Start Num: 22
Candidate Starts for Soap141_9:
(Start: 22 @7264 has 198 MA's), (Start: 29 @7291 has 3 MA's), (Start: 32 @7303 has 1 MA's), (46, 7378), (48, 7381), (57, 7429), (61, 7441), (62, 7444), (72, 7498), (94, 7603), (113, 7675), (123, 7714), (125, 7717),

Gene: Solon_17 Start: 13511, Stop: 13960, Start Num: 23
Candidate Starts for Solon_17:
(Start: 23 @13511 has 221 MA's), (Start: 29 @13535 has 3 MA's), (92, 13847),

Gene: Soondubu_8 Start: 7865, Stop: 8263, Start Num: 14
Candidate Starts for Soondubu_8:
(Start: 14 @7865 has 93 MA's), (56, 8045), (60, 8057),

Gene: Sooty_8 Start: 7253, Stop: 7720, Start Num: 14
Candidate Starts for Sooty_8:
(2, 7202), (Start: 14 @7253 has 93 MA's), (58, 7445), (74, 7526), (82, 7577),

Gene: Sorpresa_17 Start: 12879, Stop: 13328, Start Num: 23
Candidate Starts for Sorpresa_17:
(Start: 23 @12879 has 221 MA's), (Start: 29 @12903 has 3 MA's), (92, 13215), (117, 13290),

Gene: South40_12 Start: 8637, Stop: 9086, Start Num: 22
Candidate Starts for South40_12:

(Start: 6 @8580 has 1 MA's), (Start: 22 @8637 has 198 MA's), (66, 8826),

Gene: SpecialK_8 Start: 7250, Stop: 7717, Start Num: 14
Candidate Starts for SpecialK_8:
(2, 7199), (Start: 14 @7250 has 93 MA's), (58, 7442), (74, 7523),

Gene: Speedwell_16 Start: 10184, Stop: 10633, Start Num: 22
Candidate Starts for Speedwell_16:
(Start: 22 @10184 has 198 MA's), (36, 10247), (56, 10334), (66, 10373), (96, 10529), (126, 10610),

Gene: SpikeBT_19 Start: 13815, Stop: 14264, Start Num: 23
Candidate Starts for SpikeBT_19:
(Start: 23 @13815 has 221 MA's), (Start: 29 @13839 has 3 MA's), (92, 14151), (117, 14226),

Gene: SqueakyClean_12 Start: 8473, Stop: 8961, Start Num: 22
Candidate Starts for SqueakyClean_12:
(3, 8404), (Start: 22 @8473 has 198 MA's), (47, 8584), (54, 8614), (57, 8635), (66, 8671), (86, 8785), (96, 8827), (98, 8833), (119, 8902),

Gene: Squee_18 Start: 13649, Stop: 14098, Start Num: 23
Candidate Starts for Squee_18:
(Start: 23 @13649 has 221 MA's), (Start: 29 @13673 has 3 MA's), (92, 13985), (117, 14060),

Gene: StewieG_16 Start: 12723, Stop: 13172, Start Num: 23
Candidate Starts for StewieG_16:
(Start: 23 @12723 has 221 MA's), (Start: 29 @12747 has 3 MA's), (92, 13059), (117, 13134),

Gene: StrongArm_16 Start: 13900, Stop: 14349, Start Num: 23
Candidate Starts for StrongArm_16:
(Start: 23 @13900 has 221 MA's), (Start: 29 @13924 has 3 MA's), (92, 14236), (117, 14311),

Gene: Stuu_8 Start: 7343, Stop: 7810, Start Num: 14
Candidate Starts for Stuu_8:
(2, 7292), (Start: 14 @7343 has 93 MA's), (58, 7535), (74, 7616),

Gene: SuMoo_7 Start: 6373, Stop: 6852, Start Num: 14
Candidate Starts for SuMoo_7:
(Start: 14 @6373 has 93 MA's), (75, 6649), (120, 6844),

Gene: Subaru_8 Start: 7827, Stop: 8234, Start Num: 14
Candidate Starts for Subaru_8:
(Start: 14 @7827 has 93 MA's), (59, 8016), (60, 8019), (62, 8025), (67, 8064),

Gene: Sudan_11 Start: 8444, Stop: 8905, Start Num: 22
Candidate Starts for Sudan_11:
(Start: 22 @8444 has 198 MA's), (28, 8459), (66, 8633), (96, 8789), (127, 8891),

Gene: Sue2_8 Start: 7875, Stop: 8270, Start Num: 14
Candidate Starts for Sue2_8:
(Start: 14 @7875 has 93 MA's), (67, 8112),

Gene: Sujidade_12 Start: 8602, Stop: 9108, Start Num: 6
Candidate Starts for Sujidade_12:

(Start: 6 @8602 has 1 MA's), (Start: 22 @8659 has 198 MA's), (66, 8848), (96, 9004),

Gene: Sumter_16 Start: 12470, Stop: 12919, Start Num: 23
Candidate Starts for Sumter_16:
(Start: 23 @12470 has 221 MA's), (Start: 29 @12494 has 3 MA's), (92, 12806), (117, 12881),

Gene: SunkenRoot_11 Start: 8559, Stop: 9017, Start Num: 22
Candidate Starts for SunkenRoot_11:
(Start: 22 @8559 has 198 MA's), (36, 8622), (56, 8709), (66, 8748), (96, 8904), (126, 8988), (128, 9012),

Gene: SunsetPointe_11 Start: 8385, Stop: 8837, Start Num: 22
Candidate Starts for SunsetPointe_11:
(10, 8346), (Start: 22 @8385 has 198 MA's), (66, 8577), (96, 8733),

Gene: Sunshine924_16 Start: 12454, Stop: 12903, Start Num: 23
Candidate Starts for Sunshine924_16:
(Start: 23 @12454 has 221 MA's), (Start: 29 @12478 has 3 MA's), (92, 12790), (117, 12865),

Gene: SuperHands_8 Start: 8209, Stop: 8697, Start Num: 14
Candidate Starts for SuperHands_8:
(Start: 14 @8209 has 93 MA's), (30, 8254), (74, 8479), (81, 8524), (104, 8617),

Gene: Superstar_13 Start: 9291, Stop: 9767, Start Num: 22
Candidate Starts for Superstar_13:
(Start: 22 @9291 has 198 MA's), (66, 9489), (103, 9681), (127, 9753),

Gene: SwissCheese_17 Start: 12915, Stop: 13364, Start Num: 23
Candidate Starts for SwissCheese_17:
(Start: 23 @12915 has 221 MA's), (Start: 29 @12939 has 3 MA's), (92, 13251), (117, 13326),

Gene: Switzer_18 Start: 13071, Stop: 13520, Start Num: 23
Candidate Starts for Switzer_18:
(Start: 23 @13071 has 221 MA's), (Start: 29 @13095 has 3 MA's), (92, 13407), (117, 13482),

Gene: Swole_19 Start: 13381, Stop: 13830, Start Num: 23
Candidate Starts for Swole_19:
(Start: 23 @13381 has 221 MA's), (Start: 29 @13405 has 3 MA's), (92, 13717), (117, 13792),

Gene: Syleon_18 Start: 10737, Stop: 11204, Start Num: 22
Candidate Starts for Syleon_18:
(21, 10734), (Start: 22 @10737 has 198 MA's), (25, 10746), (Start: 32 @10776 has 1 MA's), (38, 10812), (43, 10830), (57, 10905), (61, 10917), (62, 10920), (75, 10995), (90, 11079), (93, 11085), (115, 11169), (118, 11175),

Gene: TagePhighter_12 Start: 8364, Stop: 8813, Start Num: 22
Candidate Starts for TagePhighter_12:
(Start: 22 @8364 has 198 MA's), (66, 8553), (114, 8757),

Gene: Tallboi_8 Start: 7862, Stop: 8269, Start Num: 14
Candidate Starts for Tallboi_8:
(Start: 14 @7862 has 93 MA's), (60, 8054),

Gene: Tasp14_18 Start: 13160, Stop: 13609, Start Num: 23
Candidate Starts for Tasp14_18:
(Start: 23 @13160 has 221 MA's), (Start: 29 @13184 has 3 MA's), (92, 13496), (117, 13571),

Gene: Tbone_8 Start: 7839, Stop: 8246, Start Num: 14
Candidate Starts for Tbone_8:
(Start: 14 @7839 has 93 MA's), (60, 8031),

Gene: Tefunt_11 Start: 8160, Stop: 8636, Start Num: 22
Candidate Starts for Tefunt_11:
(Start: 22 @8160 has 198 MA's), (57, 8322), (66, 8358),

Gene: Teodoridan_15 Start: 12287, Stop: 12736, Start Num: 23
Candidate Starts for Teodoridan_15:
(Start: 23 @12287 has 221 MA's), (Start: 29 @12311 has 3 MA's), (92, 12623), (117, 12698),

Gene: TforTroy_8 Start: 7981, Stop: 8379, Start Num: 14
Candidate Starts for TforTroy_8:
(12, 7975), (Start: 14 @7981 has 93 MA's), (60, 8173), (67, 8218),

Gene: TheloniousMonk_19 Start: 14195, Stop: 14644, Start Num: 23
Candidate Starts for TheloniousMonk_19:
(Start: 23 @14195 has 221 MA's), (Start: 29 @14219 has 3 MA's), (92, 14531), (117, 14606),

Gene: Thestral_12 Start: 8238, Stop: 8711, Start Num: 22
Candidate Starts for Thestral_12:
(Start: 4 @8172 has 1 MA's), (7, 8187), (9, 8193), (Start: 14 @8217 has 93 MA's), (Start: 22 @8238 has 198 MA's), (49, 8352), (60, 8406), (66, 8433), (127, 8697),

Gene: Thor_17 Start: 13033, Stop: 13482, Start Num: 23
Candidate Starts for Thor_17:
(Start: 23 @13033 has 221 MA's), (Start: 29 @13057 has 3 MA's), (92, 13369), (117, 13444),

Gene: ThursdayNight_7 Start: 6385, Stop: 6780, Start Num: 14
Candidate Starts for ThursdayNight_7:
(Start: 14 @6385 has 93 MA's), (31, 6436), (58, 6571), (67, 6622),

Gene: Tian_8 Start: 7873, Stop: 8280, Start Num: 14
Candidate Starts for Tian_8:
(Start: 14 @7873 has 93 MA's), (60, 8065), (67, 8110),

Gene: TinaBelcher_11 Start: 8186, Stop: 8659, Start Num: 22
Candidate Starts for TinaBelcher_11:
(Start: 4 @8120 has 1 MA's), (7, 8135), (9, 8141), (Start: 14 @8165 has 93 MA's), (Start: 22 @8186 has 198 MA's), (49, 8300), (66, 8381), (127, 8645),

Gene: Toma_11 Start: 8367, Stop: 8816, Start Num: 22
Candidate Starts for Toma_11:
(Start: 6 @8310 has 1 MA's), (Start: 22 @8367 has 198 MA's), (66, 8556), (96, 8712),

Gene: Topgun_17 Start: 12635, Stop: 13084, Start Num: 23
Candidate Starts for Topgun_17:
(Start: 23 @12635 has 221 MA's), (92, 12971), (117, 13046),

Gene: Tote_19 Start: 13381, Stop: 13830, Start Num: 23
Candidate Starts for Tote_19:
(Start: 23 @13381 has 221 MA's), (Start: 29 @13405 has 3 MA's), (92, 13717), (117, 13792),

Gene: Tourach_9 Start: 7244, Stop: 7708, Start Num: 22
Candidate Starts for Tourach_9:
(Start: 22 @7244 has 198 MA's), (Start: 29 @7271 has 3 MA's), (Start: 32 @7283 has 1 MA's), (35, 7292), (46, 7358), (48, 7361), (57, 7409), (61, 7421), (62, 7424), (72, 7478), (83, 7538), (94, 7583), (113, 7655), (123, 7694), (125, 7697),

Gene: TpudiCK_20 Start: 11030, Stop: 11512, Start Num: 17
Candidate Starts for TpudiCK_20:
(Start: 17 @11030 has 22 MA's), (Start: 32 @11081 has 1 MA's), (57, 11210), (101, 11414), (111, 11438),

Gene: Traft412_19 Start: 13862, Stop: 14311, Start Num: 23
Candidate Starts for Traft412_19:
(Start: 23 @13862 has 221 MA's), (Start: 29 @13886 has 3 MA's), (92, 14198), (117, 14273),

Gene: Trax_17 Start: 10452, Stop: 10922, Start Num: 22
Candidate Starts for Trax_17:
(Start: 22 @10452 has 198 MA's), (58, 10644), (61, 10653), (62, 10656), (63, 10659), (64, 10668), (65, 10674), (69, 10701), (84, 10785), (107, 10869), (115, 10899), (118, 10905),

Gene: Treddle_19 Start: 14175, Stop: 14624, Start Num: 23
Candidate Starts for Treddle_19:
(Start: 23 @14175 has 221 MA's), (Start: 29 @14199 has 3 MA's), (92, 14511), (117, 14586),

Gene: TriFive_10 Start: 7371, Stop: 7847, Start Num: 22
Candidate Starts for TriFive_10:
(Start: 22 @7371 has 198 MA's), (Start: 32 @7410 has 1 MA's), (42, 7461), (46, 7491), (48, 7494), (57, 7542), (60, 7551), (61, 7554), (62, 7557), (72, 7611), (74, 7626), (83, 7671), (90, 7707),

Gene: Tripl3t_18 Start: 13860, Stop: 14309, Start Num: 23
Candidate Starts for Tripl3t_18:
(Start: 23 @13860 has 221 MA's), (Start: 29 @13884 has 3 MA's), (92, 14196), (117, 14271),

Gene: Triste_11 Start: 8358, Stop: 8807, Start Num: 22
Candidate Starts for Triste_11:
(Start: 6 @8301 has 1 MA's), (Start: 22 @8358 has 198 MA's), (66, 8547), (114, 8751),

Gene: Triumph_13 Start: 8256, Stop: 8726, Start Num: 22
Candidate Starts for Triumph_13:
(Start: 22 @8256 has 198 MA's), (66, 8454), (86, 8568), (103, 8646),

Gene: Trouble_17 Start: 13221, Stop: 13670, Start Num: 23
Candidate Starts for Trouble_17:
(Start: 23 @13221 has 221 MA's), (Start: 29 @13245 has 3 MA's), (92, 13557), (117, 13632),

Gene: TrvxScott_10 Start: 8121, Stop: 8660, Start Num: 4
Candidate Starts for TrvxScott_10:

(Start: 4 @8121 has 1 MA's), (7, 8136), (9, 8142), (Start: 14 @8166 has 93 MA's), (Start: 22 @8187 has 198 MA's), (49, 8301), (66, 8382), (127, 8646),

Gene: TuanPN_11 Start: 8367, Stop: 8816, Start Num: 22
Candidate Starts for TuanPN_11:
(Start: 6 @8310 has 1 MA's), (Start: 22 @8367 has 198 MA's), (66, 8556), (114, 8760),

Gene: Tuck_9 Start: 8887, Stop: 9315, Start Num: 14
Candidate Starts for Tuck_9:
(Start: 14 @8887 has 93 MA's), (60, 9079),

Gene: Turab_8 Start: 7857, Stop: 8264, Start Num: 14
Candidate Starts for Turab_8:
(Start: 14 @7857 has 93 MA's), (60, 8049), (67, 8094),

Gene: Turj99_16 Start: 12659, Stop: 13108, Start Num: 23
Candidate Starts for Turj99_16:
(Start: 23 @12659 has 221 MA's), (117, 13070),

Gene: Tutumahutu_8 Start: 7893, Stop: 8300, Start Num: 14
Candidate Starts for Tutumahutu_8:
(Start: 14 @7893 has 93 MA's), (60, 8085),

Gene: Tweety19_8 Start: 6967, Stop: 7365, Start Num: 14
Candidate Starts for Tweety19_8:
(Start: 14 @6967 has 93 MA's),

Gene: TwoPeat_18 Start: 13174, Stop: 13623, Start Num: 23
Candidate Starts for TwoPeat_18:
(Start: 23 @13174 has 221 MA's), (Start: 29 @13198 has 3 MA's), (92, 13510), (117, 13585),

Gene: TyDawg_19 Start: 11031, Stop: 11513, Start Num: 17
Candidate Starts for TyDawg_19:
(Start: 17 @11031 has 22 MA's), (Start: 32 @11082 has 1 MA's), (57, 11211), (101, 11415), (111, 11439),

Gene: Tyson_9 Start: 7246, Stop: 7713, Start Num: 22
Candidate Starts for Tyson_9:
(Start: 22 @7246 has 198 MA's), (Start: 29 @7273 has 3 MA's), (Start: 32 @7285 has 1 MA's), (42, 7330), (45, 7342), (46, 7360), (48, 7363), (57, 7411), (61, 7423), (62, 7426), (72, 7480), (83, 7540), (94, 7585), (121, 7696), (123, 7699), (125, 7702),

Gene: U2_17 Start: 13077, Stop: 13526, Start Num: 23
Candidate Starts for U2_17:
(Start: 23 @13077 has 221 MA's), (Start: 29 @13101 has 3 MA's), (92, 13413), (117, 13488),

Gene: UPIE_9 Start: 7271, Stop: 7711, Start Num: 29
Candidate Starts for UPIE_9:
(Start: 22 @7244 has 198 MA's), (Start: 29 @7271 has 3 MA's), (Start: 32 @7283 has 1 MA's), (42, 7328), (45, 7340), (46, 7358), (48, 7361), (57, 7409), (61, 7421), (62, 7424), (72, 7478), (83, 7538), (94, 7583), (121, 7694), (123, 7697), (125, 7700),

Gene: Underpass_9 Start: 7231, Stop: 7695, Start Num: 22

Candidate Starts for Underpass_9:
(Start: 22 @7231 has 198 MA's), (Start: 29 @7258 has 3 MA's), (Start: 32 @7270 has 1 MA's), (46, 7345), (48, 7348), (57, 7396), (61, 7408), (62, 7411), (72, 7465), (94, 7570), (113, 7642), (123, 7681), (125, 7684),

Gene: Unstoppable_11 Start: 8386, Stop: 8838, Start Num: 22
Candidate Starts for Unstoppable_11:
(10, 8347), (Start: 22 @8386 has 198 MA's), (66, 8578), (96, 8734),

Gene: Urza_11 Start: 8599, Stop: 9084, Start Num: 22
Candidate Starts for Urza_11:
(Start: 22 @8599 has 198 MA's), (57, 8752), (66, 8788), (80, 8875),

Gene: UtzChips_7 Start: 7094, Stop: 7573, Start Num: 14
Candidate Starts for UtzChips_7:
(13, 7088), (Start: 14 @7094 has 93 MA's), (120, 7565),

Gene: VResidence_8 Start: 7916, Stop: 8323, Start Num: 14
Candidate Starts for VResidence_8:
(Start: 14 @7916 has 93 MA's), (60, 8108),

Gene: Vanseggelen_14 Start: 8092, Stop: 8553, Start Num: 22
Candidate Starts for Vanseggelen_14:
(Start: 22 @8092 has 198 MA's), (28, 8107), (66, 8281), (96, 8437), (127, 8539),

Gene: Verabelle_12 Start: 8442, Stop: 8903, Start Num: 22
Candidate Starts for Verabelle_12:
(Start: 22 @8442 has 198 MA's), (28, 8457), (43, 8526), (66, 8631), (95, 8781), (126, 8874), (127, 8889),

Gene: Verse_11 Start: 8560, Stop: 9018, Start Num: 22
Candidate Starts for Verse_11:
(Start: 22 @8560 has 198 MA's), (36, 8623), (56, 8710), (66, 8749), (96, 8905), (126, 8989), (128, 9013),

Gene: Vetrix_9 Start: 7231, Stop: 7695, Start Num: 22
Candidate Starts for Vetrix_9:
(Start: 22 @7231 has 198 MA's), (Start: 29 @7258 has 3 MA's), (Start: 32 @7270 has 1 MA's), (46, 7345), (48, 7348), (57, 7396), (61, 7408), (62, 7411), (72, 7465), (94, 7570), (113, 7642), (123, 7681), (125, 7684),

Gene: VieEnRose_11 Start: 8669, Stop: 9154, Start Num: 22
Candidate Starts for VieEnRose_11:
(Start: 22 @8669 has 198 MA's), (28, 8684), (57, 8822), (66, 8858), (80, 8945),

Gene: Violet_16 Start: 13466, Stop: 13915, Start Num: 23
Candidate Starts for Violet_16:
(Start: 23 @13466 has 221 MA's), (92, 13802), (117, 13877),

Gene: VroomVroom_7 Start: 6184, Stop: 6585, Start Num: 14
Candidate Starts for VroomVroom_7:
(Start: 14 @6184 has 93 MA's), (67, 6421),

Gene: Wamburgrxpress_9 Start: 7246, Stop: 7713, Start Num: 22
Candidate Starts for Wamburgrxpress_9:
(Start: 22 @7246 has 198 MA's), (Start: 29 @7273 has 3 MA's), (Start: 32 @7285 has 1 MA's), (42, 7330), (45, 7342), (46, 7360), (48, 7363), (57, 7411), (61, 7423), (62, 7426), (72, 7480), (83, 7540), (94, 7585), (121, 7696), (123, 7699), (125, 7702),

Gene: Warda_8 Start: 7839, Stop: 8246, Start Num: 14
Candidate Starts for Warda_8:
(Start: 14 @7839 has 93 MA's), (60, 8031),

Gene: Watermelon_19 Start: 13772, Stop: 14221, Start Num: 23
Candidate Starts for Watermelon_19:
(Start: 23 @13772 has 221 MA's), (Start: 29 @13796 has 3 MA's), (92, 14108), (117, 14183),

Gene: Werner_11 Start: 8365, Stop: 8814, Start Num: 22
Candidate Starts for Werner_11:
(Start: 22 @8365 has 198 MA's), (66, 8554), (114, 8758),

Gene: Whatever_11 Start: 8365, Stop: 8814, Start Num: 22
Candidate Starts for Whatever_11:
(Start: 22 @8365 has 198 MA's), (66, 8554), (114, 8758),

Gene: Wheeler_17 Start: 13227, Stop: 13676, Start Num: 23
Candidate Starts for Wheeler_17:
(Start: 23 @13227 has 221 MA's), (Start: 29 @13251 has 3 MA's), (92, 13563), (117, 13638),

Gene: Whirlwind_11 Start: 7365, Stop: 7841, Start Num: 22
Candidate Starts for Whirlwind_11:
(Start: 22 @7365 has 198 MA's), (Start: 32 @7404 has 1 MA's), (42, 7455), (46, 7485), (48, 7488), (57, 7536), (58, 7539), (60, 7545), (61, 7548), (62, 7551), (72, 7605), (83, 7665), (94, 7710),

Gene: Wigglewiggle_9 Start: 7264, Stop: 7728, Start Num: 22
Candidate Starts for Wigglewiggle_9:
(Start: 22 @7264 has 198 MA's), (Start: 29 @7291 has 3 MA's), (Start: 32 @7303 has 1 MA's), (46, 7378), (48, 7381), (57, 7429), (61, 7441), (62, 7444), (72, 7498), (94, 7603), (113, 7675), (123, 7714), (125, 7717),

Gene: Wildcat_31 Start: 14145, Stop: 14621, Start Num: 22
Candidate Starts for Wildcat_31:
(Start: 22 @14145 has 198 MA's), (26, 14157), (39, 14229), (44, 14247), (48, 14271), (67, 14370), (70, 14379), (76, 14409), (97, 14496), (109, 14541), (115, 14568), (118, 14574),

Gene: Wilder_9 Start: 7231, Stop: 7695, Start Num: 22
Candidate Starts for Wilder_9:
(Start: 22 @7231 has 198 MA's), (Start: 29 @7258 has 3 MA's), (Start: 32 @7270 has 1 MA's), (46, 7345), (48, 7348), (57, 7396), (61, 7408), (62, 7411), (72, 7465), (94, 7570), (113, 7642), (123, 7681), (125, 7684),

Gene: Wildwest_9 Start: 8762, Stop: 9178, Start Num: 14
Candidate Starts for Wildwest_9:
(Start: 14 @8762 has 93 MA's), (60, 8954), (74, 9029),

Gene: Wilkins_17 Start: 12635, Stop: 13084, Start Num: 23

Candidate Starts for Wilkins_17:
(Start: 23 @12635 has 221 MA's), (92, 12971), (117, 13046),

Gene: Winky_9 Start: 7231, Stop: 7695, Start Num: 22
Candidate Starts for Winky_9:
(Start: 22 @7231 has 198 MA's), (Start: 29 @7258 has 3 MA's), (Start: 32 @7270 has 1 MA's), (46, 7345), (48, 7348), (57, 7396), (61, 7408), (62, 7411), (72, 7465), (94, 7570), (113, 7642), (123, 7681), (125, 7684),

Gene: Wyatt2_9 Start: 7246, Stop: 7713, Start Num: 22
Candidate Starts for Wyatt2_9:
(Start: 22 @7246 has 198 MA's), (Start: 29 @7273 has 3 MA's), (Start: 32 @7285 has 1 MA's), (42, 7330), (45, 7342), (46, 7360), (48, 7363), (57, 7411), (61, 7423), (62, 7426), (72, 7480), (83, 7540), (94, 7585), (121, 7696), (123, 7699), (125, 7702),

Gene: Yang_8 Start: 7957, Stop: 8352, Start Num: 14
Candidate Starts for Yang_8:
(Start: 14 @7957 has 93 MA's), (60, 8149), (67, 8194),

Gene: Yasdnil_11 Start: 8363, Stop: 8812, Start Num: 22
Candidate Starts for Yasdnil_11:
(Start: 6 @8306 has 1 MA's), (Start: 22 @8363 has 198 MA's), (66, 8552), (114, 8756),

Gene: YesChef_8 Start: 7893, Stop: 8300, Start Num: 14
Candidate Starts for YesChef_8:
(Start: 14 @7893 has 93 MA's), (60, 8085),

Gene: Yosif_12 Start: 8821, Stop: 9279, Start Num: 22
Candidate Starts for Yosif_12:
(Start: 22 @8821 has 198 MA's), (57, 8974), (66, 9010), (74, 9058), (96, 9166), (126, 9250), (127, 9265),

Gene: Zainub_13 Start: 8727, Stop: 9203, Start Num: 22
Candidate Starts for Zainub_13:
(Start: 5 @8664 has 1 MA's), (8, 8679), (Start: 22 @8727 has 198 MA's), (51, 8847), (66, 8925), (103, 9117), (127, 9189),

Gene: Zakai_9 Start: 7219, Stop: 7683, Start Num: 22
Candidate Starts for Zakai_9:
(Start: 22 @7219 has 198 MA's), (Start: 29 @7246 has 3 MA's), (Start: 32 @7258 has 1 MA's), (46, 7333), (48, 7336), (57, 7384), (61, 7396), (62, 7399), (72, 7453), (94, 7558), (113, 7630), (123, 7669), (125, 7672),

Gene: ZamZam_11 Start: 8459, Stop: 8908, Start Num: 22
Candidate Starts for ZamZam_11:
(Start: 22 @8459 has 198 MA's), (Start: 32 @8495 has 1 MA's), (36, 8522), (56, 8609), (66, 8648), (96, 8804), (126, 8885),

Gene: Zaria_9 Start: 7247, Stop: 7714, Start Num: 22
Candidate Starts for Zaria_9:
(Start: 22 @7247 has 198 MA's), (Start: 29 @7274 has 3 MA's), (Start: 32 @7286 has 1 MA's), (42, 7331), (45, 7343), (46, 7361), (48, 7364), (57, 7412), (61, 7424), (62, 7427), (72, 7481), (83, 7541), (94, 7586), (121, 7697), (123, 7700), (125, 7703),

Gene: Zeeculate_16 Start: 12913, Stop: 13362, Start Num: 23
Candidate Starts for Zeeculate_16:
(Start: 23 @12913 has 221 MA's), (Start: 29 @12937 has 3 MA's), (92, 13249), (117, 13324),

Gene: Zemlya_12 Start: 8375, Stop: 8824, Start Num: 22
Candidate Starts for Zemlya_12:
(Start: 6 @8318 has 1 MA's), (Start: 22 @8375 has 198 MA's), (56, 8525), (57, 8528), (66, 8564),

Gene: Zephyr_17 Start: 13005, Stop: 13454, Start Num: 23
Candidate Starts for Zephyr_17:
(Start: 23 @13005 has 221 MA's), (Start: 29 @13029 has 3 MA's), (92, 13341), (117, 13416),

Gene: Zeta1847_7 Start: 6205, Stop: 6684, Start Num: 14
Candidate Starts for Zeta1847_7:
(Start: 14 @6205 has 93 MA's), (27, 6235), (122, 6679),

Gene: Zeuska_18 Start: 13447, Stop: 13896, Start Num: 23
Candidate Starts for Zeuska_18:
(Start: 23 @13447 has 221 MA's), (Start: 29 @13471 has 3 MA's), (92, 13783), (117, 13858),

Gene: ZhongYanYuan_8 Start: 7059, Stop: 7523, Start Num: 22
Candidate Starts for ZhongYanYuan_8:
(Start: 22 @7059 has 198 MA's), (Start: 29 @7086 has 3 MA's), (Start: 32 @7098 has 1 MA's), (35, 7107), (46, 7173), (48, 7176), (57, 7224), (61, 7236), (62, 7239), (72, 7293), (83, 7353), (90, 7389), (94, 7398), (113, 7470), (123, 7509), (125, 7512),

Gene: phiCAM_12 Start: 10223, Stop: 10681, Start Num: 22
Candidate Starts for phiCAM_12:
(Start: 22 @10223 has 198 MA's), (28, 10238), (66, 10412), (74, 10460), (96, 10568), (126, 10652), (128, 10676),

Gene: phiHau3_13 Start: 8427, Stop: 8894, Start Num: 22
Candidate Starts for phiHau3_13:
(Start: 22 @8427 has 198 MA's), (56, 8577), (57, 8580), (66, 8616), (80, 8703), (100, 8796), (106, 8814), (114, 8823), (127, 8880),