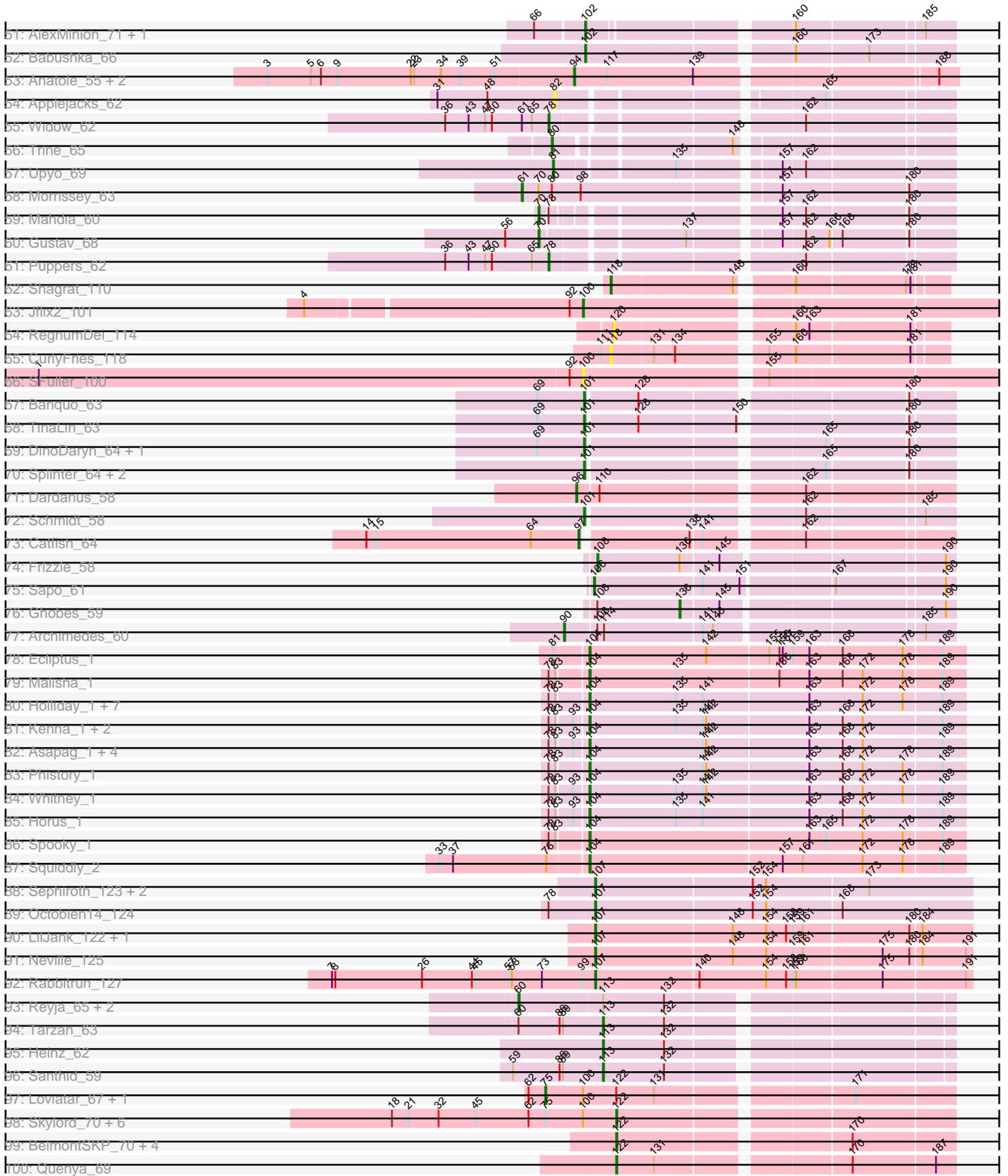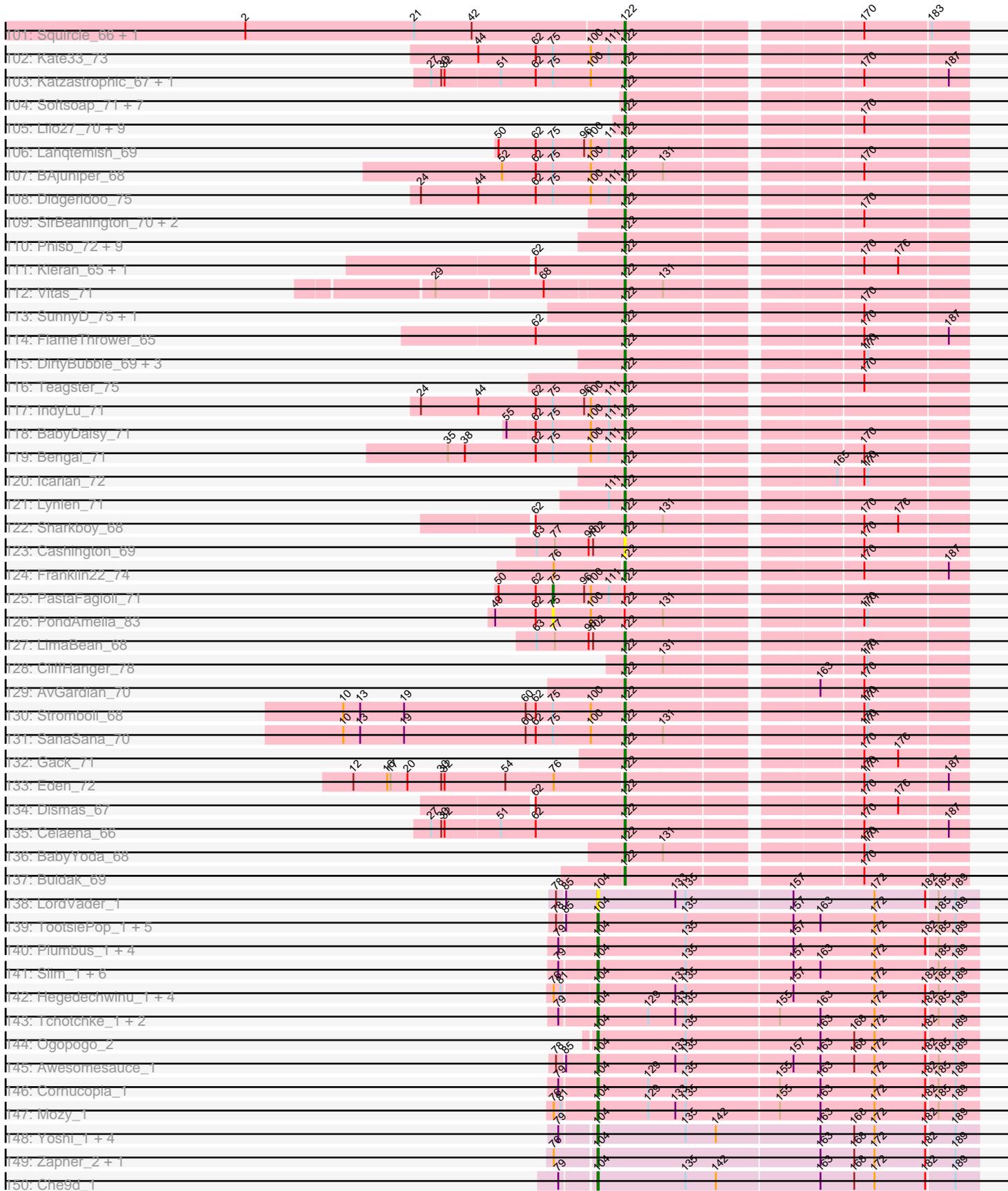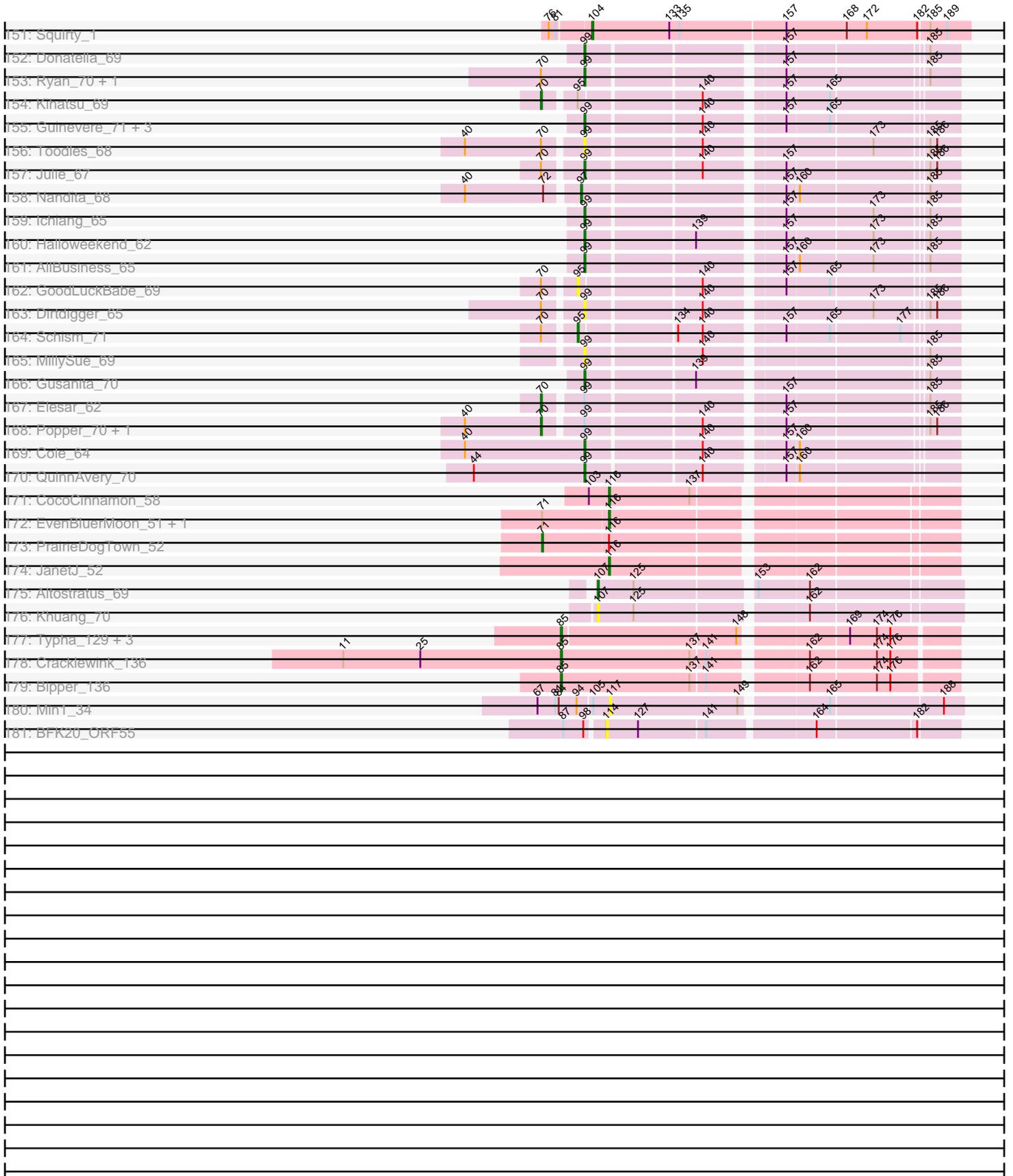# Pham 290737

Pham 290737

Pham 290737

Pham 290737

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 290737 Report

This analysis was run 03/28/26 on database version 641.

Pham number 290737 has 373 members, 45 are drafts.

Phages represented in each track:
• Track 1 : Savage2526_61, Immaculata_62, TattModd_61, Wawa_62, Korra_62, Cholula_62, BrotherBLo_62, Potatoes_62, Rozby_60, Riverdale_61, Carpal_61, Zorro_62, Kalizoi_62, Beethoven_63
• Track 2 : Vulture_60, HunterDalle_60
• Track 3 : Misaeng_61
• Track 4 : Bennie_63
• Track 5 : OurGirlNessie_59, Makoto_60, Lennox_61, WonderBoy_59, Pterodactyl_61, ChewChew_61
• Track 6 : Herb_60, Maria1952_59, Sergei_60, Daiboju_60, KingBob_60, Temper16_60
• Track 7 : Huntingdon_61
• Track 8 : Kittykat_65, Preamble_64
• Track 9 : Litotes_62, CallieOMalley_62
• Track 10 : MamaPearl_60, Urla_62, EstebanJulior_60
• Track 11 : Christian_61, PitaDog_61
• Track 12 : Aledel_60, Riovina_60, Eunoia_62, OMalley_60, AustinPowers_60
• Track 13 : Glenn_64, RAP15_63, MrGloopy_62, MeganNoll_63, Dino_62, Scuttle_61, Vallejo_62, Fluke_62
• Track 14 : DreamTeam_61, Gisselle_61
• Track 15 : Nubia_61
• Track 16 : AppleCider_61
• Track 17 : Oxynfrius_62, Joann_63
• Track 18 : Bodacious_61, CristinaYang_61, Lasagna_59, Nancia_61, LilStuart_60
• Track 19 : Chridison_57, Supakev_60
• Track 20 : Greenhouse_61, Albanese_61
• Track 21 : HeadNerd_62, Huckleberry_62, Moki_62
• Track 22 : Canowicakte_62, MrBoss_63, Suppi_62, Graynor_65, PartyCup_62, Wayne_64
• Track 23 : PinkFriday_61, Pumancara_61
• Track 24 : GreenHearts_62, Lakshmi_61
• Track 25 : RcigaStruga_62
• Track 26 : BigMack_61
• Track 27 : Lucy_60, DrRobert_59
• Track 28 : Jumboset_62
• Track 29 : Basilisk_66
• Track 30 : KendraB23_76, Toad24_68
• Track 31 : TaylorSipht_65

- Track 32 : Orcanus_65
- Track 33 : Jamun_63
- Track 34 : Chickaboom_66, WileyE_66, Brynnie_64
- Track 35 : Abidatro_66
- Track 36 : Vulpecula_64
- Track 37 : Eesa_65, Zixiang_67
- Track 38 : Galaxy_65
- Track 39 : Ruchi_64
- Track 40 : LittleTokyo_73, Cygnet_73
- Track 41 : Melons_73
- Track 42 : Lunar_73
- Track 43 : Kepler_75, Amelia_71, Cote_75, Daob_71, OtsoOtso_72, Colusalem_71, Polka_71, PhirstandPhine_78, Coral_72
- Track 44 : Antrice_75
- Track 45 : Bibble12_75, Pineda_74
- Track 46 : Kuleana_76
- Track 47 : Zhuangyuan_77
- Track 48 : Renna12_72
- Track 49 : Glotell_71, DanHam62_70, RedFox_71, Atlantica_70, HamCheese_69, KHumphrey_70, Juno112_69, AmiCi24_68, Oppalora_68, Laphuphu24k_68, Fingolfin_70, Amphitrite_69, Camara_69, Rattail_71, PhluffyCoco_68, AdoptaAdorbs_68
- Track 50 : Azaz_72, Leona_68
- Track 51 : AlexMinion_71, StuartMinion_61
- Track 52 : Babushka_66
- Track 53 : Anatole_55, E1_55, B3_57
- Track 54 : Applejacks_62
- Track 55 : Widow_62
- Track 56 : Trine_65
- Track 57 : Upyo_69
- Track 58 : Morrissey_63
- Track 59 : Mahdia_60
- Track 60 : Gustav_68
- Track 61 : Puppers_62
- Track 62 : Shagrat_110
- Track 63 : Jflix2_101
- Track 64 : RegnumDei_114
- Track 65 : CurlyFries_118
- Track 66 : SFuller_100
- Track 67 : Banquo_63
- Track 68 : TinaLin_63
- Track 69 : DinoDaryn_64, Huffy_64
- Track 70 : Splinter_64, TZGordon_65, Vendetta_64
- Track 71 : Dardanus_58
- Track 72 : Schmidt_58
- Track 73 : Catfish_64
- Track 74 : Frizzle_58
- Track 75 : Sapo_61
- Track 76 : Ghobes_59
- Track 77 : Archimedes_60
- Track 78 : Ecliptus_1
- Track 79 : Malisha_1

- Track 80 : Holliday_1, LitninMcQueen_1, BotCity_1, Kamaru_1, Budski_1, CheeseTouch_1, Phabuloso_1, ODay_1
- Track 81 : Kenna_1, Periwinkle_1, Lutum_1
- Track 82 : Asapag_1, Getalong_1, BENtherdunthat_1, Leroy_1, Frickyeah_1
- Track 83 : Phistory_1
- Track 84 : Whitney_1
- Track 85 : Horus_1
- Track 86 : Spooky_1
- Track 87 : Squiddly_2
- Track 88 : Sephiroth_123, Kudefre_128, Syleon_128
- Track 89 : Octobien14_124
- Track 90 : LilJank_122, Trax_126
- Track 91 : Neville_125
- Track 92 : Rabbitrun_127
- Track 93 : Reyja_65, Hibiscus_63, Jojo24_63
- Track 94 : Tarzan_63
- Track 95 : Heinz_62
- Track 96 : Santhid_59
- Track 97 : Loviatar_67, Akino08_66
- Track 98 : Skylord_70, Clayda5_72, Armstrong_70, Rollins_70, Bernstein_70, Coltrane_70, Brahms_70
- Track 99 : BelmontSKP_70, PhigPhack_73, AnnaLie_70, Arroyo_71, SansAfet_72
- Track 100 : Quenya_69
- Track 101 : Squircle_66, Olliecat_66
- Track 102 : Kate33_73
- Track 103 : Katzastrophic_67, Bachaco_66
- Track 104 : Softsoap_71, BubbaBear_68, DickRichards_68, Doobus_68, Albright_69, Milomuff_72, Solea_73, Avocadoman_69
- Track 105 : Lilo27_70, Swervy_70, Eula_69, TukTuk_70, Pecas_70, Finalfrontier_69, Jovita_68, Slay_70, Nicky22_69, AylexOG_71
- Track 106 : Lahqtemish_69
- Track 107 : BAjuniper_68
- Track 108 : Didgeridoo_75
- Track 109 : SirBeanington_70, Albedo_70, Kenzers_69
- Track 110 : Phisb_72, CupcakePrincess_71, Johnathan_70, SarBear_72, Jabb_71, QMacho_72, CroZenni_71, Burritobowl_72, MsUbiquitous_71, Abigail_70
- Track 111 : Kieran_65, Rona_66
- Track 112 : Vitas_71
- Track 113 : SunnyD_75, Shayna_75
- Track 114 : FlameThrower_65
- Track 115 : DirtyBubble_69, Elva_73, Stoor_69, WalkingDead_71
- Track 116 : Teagster_75
- Track 117 : IndyLu_71
- Track 118 : BabyDaisy_71
- Track 119 : Bengal_71
- Track 120 : Icarian_72
- Track 121 : Lynlen_71
- Track 122 : Sharkboy_68
- Track 123 : Cashington_69
- Track 124 : Franklin22_74
- Track 125 : PastaFagioli_71
- Track 126 : PondAmelia_83
- Track 127 : LimaBean_68

- Track 128 : CliffHanger_78
- Track 129 : AvGardian_70
- Track 130 : Stromboli_68
- Track 131 : SanaSana_70
- Track 132 : Gack_71
- Track 133 : Eden_72
- Track 134 : Dismas_67
- Track 135 : Celaena_66
- Track 136 : BabyYoda_68
- Track 137 : Buldak_69
- Track 138 : LordVader_1
- Track 139 : TootsiePop_1, Aloeri_1, DocMcStuffins_1, Piper2020_1, Misha28_1, ChickenDinner_1
- Track 140 : Plumbus_1, MulchExplorer_1, Job42_1, Kimberlium_1, Juice456_1
- Track 141 : Slim_1, Emmaloid_1, Starcevich_1, Totinger_1, Rialto_1, LittleShirley_1, Mova_1
- Track 142 : Hegedechwinu_1, Frankie_1, Brushbloom_1, Doomslug_1, Flathead_1
- Track 143 : Tchotchke_1, Girafales_1, Quico_1
- Track 144 : Ogopogo_2
- Track 145 : Awesomesauce_1
- Track 146 : Cornucopia_1
- Track 147 : Mozy_1
- Track 148 : Yoshi_1, Avani_1, Demsculpinboyz_1, Soul22_1, SilverChicken_1
- Track 149 : Zapner_2, Jabbawokkie_2
- Track 150 : Che9d_1
- Track 151 : Squirty_1
- Track 152 : Donatella_69
- Track 153 : Ryan_70, Yonex_69
- Track 154 : Kihatsu_69
- Track 155 : Guinevere_71, ToastyOats_69, Zaheer_69, Lenoxika_66
- Track 156 : Toodles_68
- Track 157 : Julie_67
- Track 158 : Nandita_68
- Track 159 : Ichiang_65
- Track 160 : Halloweekend_62
- Track 161 : AllBusiness_65
- Track 162 : GoodLuckBabe_69
- Track 163 : Dirtdigger_65
- Track 164 : Schism_71
- Track 165 : MillySue_69
- Track 166 : Gusanita_70
- Track 167 : Elesar_62
- Track 168 : Popper_70, IsHungry_64
- Track 169 : Cole_64
- Track 170 : QuinnAvery_70
- Track 171 : CocoCinnamon_58
- Track 172 : EvenBluerMoon_51, Aoka_54
- Track 173 : PrairieDogTown_52
- Track 174 : JanetJ_52
- Track 175 : Altostratus_69
- Track 176 : Khuang_70
- Track 177 : Typha_129, Faiyaz_132, Hilltopfarm_134, AuntGwenStacy_132
- Track 178 : Cracklewink_136

- Track 179 : Bipper_136
- Track 180 : Min1_34
- Track 181 : BFK20_ORF55

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

The start number called the most often in the published annotations is 122, it was called in 76 of the 328 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- Abigail_70, Albedo_70, Albright_69, AnnaLie_70, Armstrong_70, Arroyo_71, AvGardian_70, Avocadoman_69, AylexOG_71, BAjuniper_68, BabyDaisy_71, BabyYoda_68, Bachaco_66, BelmontSKP_70, Bengal_71, Bernstein_70, Brahms_70, BubbaBear_68, Buldak_69, Burritobowl_72, Cashington_69, Celaena_66, Clayda5_72, CliffHanger_78, Coltrane_70, CroZenni_71, CupcakePrincess_71, DickRichards_68, Didgeridoo_75, DirtyBubble_69, Dismas_67, Doobus_68, Eden_72, Elva_73, Eula_69, Finalfrontier_69, FlameThrower_65, Franklin22_74, Gack_71, Icarian_72, IndyLu_71, Jabb_71, Johnathan_70, Jovita_68, Kate33_73, Katzastrophic_67, Kenzers_69, Kieran_65, Lahqtemish_69, Lilo27_70, LimaBean_68, Lynlen_71, Milomuff_72, MsUbiquitous_71, Nicky22_69, Olliecat_66, Pecas_70, PhigPhack_73, Phisb_72, QMacho_72, Quenya_69, Rollins_70, Rona_66, SanaSana_70, SansAfet_72, SarBear_72, Sharkboy_68, Shayna_75, SirBeanington_70, Skylord_70, Slay_70, Softsoap_71, Solea_73, Squircle_66, Stoor_69, Stromboli_68, SunnyD_75, Swervy_70, Teagster_75, TukTuk_70, Vitas_71, WalkingDead_71,

Genes that have the "Most Annotated" start but do not call it:
- Akino08_66, CallieOMalley_62, Canowicakte_62, Graynor_65, Litotes_62, Loviatar_67, MrBoss_63, PartyCup_62, PastaFagioli_71, PondAmelia_83, Suppi_62, Wayne_64,

Genes that do not have the "Most Annotated" start:
- Abidatro_66, AdoptaAdorbs_68, Albanese_61, Aledel_60, AlexMinion_71, AllBusiness_65, Aloeri_1, Altostratus_69, Amelia_71, AmiCi24_68, Amphitrite_69, Anatole_55, Antrice_75, Aoka_54, AppleCider_61, Applejacks_62, Archimedes_60, Asapag_1, Atlantica_70, AuntGwenStacy_132, AustinPowers_60, Avani_1, Awesomesauce_1, Azaz_72, B3_57, BENtherdunthat_1, BFK20_ORF55, Babushka_66, Banquo_63, Basilisk_66, Beethoven_63, Bennie_63, Bibble12_75, BigMack_61, Bipper_136, Bodacious_61, BotCity_1, BrotherBLo_62, Brushbloom_1, Brynnie_64, Budski_1, Camara_69, Carpal_61, Catfish_64, Che9d_1, CheeseTouch_1, ChewChew_61, Chickaboom_66, ChickenDinner_1, Cholula_62, Chridison_57, Christian_61, CocoCinnamon_58, Cole_64, Colusalem_71, Coral_72, Cornucopia_1, Cote_75, Cracklewink_136, CristinaYang_61, CurlyFries_118, Cygnet_73, Daiboju_60, DanHam62_70, Daob_71, Dardanus_58, Demsculpinboyz_1, DinoDaryn_64, Dino_62, Dirtdigger_65, DocMcStuffins_1, Donatella_69, Doomslug_1, DrRobert_59, DreamTeam_61, E1_55, Ecliptus_1, Eesa_65, Elesar_62, Emmaloid_1, EstebanJulior_60, Eunoia_62, EvenBluerMoon_51, Faiyaz_132, Fingolfin_70, Flathead_1, Fluke_62, Frankie_1, Frickyeah_1, Frizzle_58, Galaxy_65, Getalong_1, Ghobes_59, Girafales_1, Gisselle_61, Glenn_64, Glotell_71, GoodLuckBabe_69, GreenHearts_62,

Greenhouse_61, Guinevere_71, Gusanita_70, Gustav_68, Halloweekend_62, HamCheese_69, HeadNerd_62, Hegedechwinu_1, Heinz_62, Herb_60, Hibiscus_63, Hilltopfarm_134, Holliday_1, Horus_1, Huckleberry_62, Huffy_64, HunterDalle_60, Huntingdon_61, Ichiang_65, Immaculata_62, IsHungry_64, Jabbawokkie_2, Jamun_63, JanetJ_52, Jflix2_101, Joann_63, Job42_1, Jojo24_63, Juice456_1, Julie_67, Jumboset_62, Juno112_69, KHumphrey_70, Kalizoi_62, Kamaru_1, KendraB23_76, Kenna_1, Kepler_75, Khuang_70, Kihatsu_69, Kimberlium_1, KingBob_60, Kittykat_65, Korra_62, Kudefre_128, Kuleana_76, Lakshmi_61, Laphuphu24k_68, Lasagna_59, Lennox_61, Lenoxika_66, Leona_68, Leroy_1, LilJank_122, LilStuart_60, LitninMcQueen_1, LittleShirley_1, LittleTokyo_73, LordVader_1, Lucy_60, Lunar_73, Lutum_1, Mahdia_60, Makoto_60, Malisha_1, MamaPearl_60, Maria1952_59, MeganNoll_63, Melons_73, MillySue_69, Min1_34, Misaeng_61, Misha28_1, Moki_62, Morrissey_63, Mova_1, Mozy_1, MrGloopy_62, MulchExplorer_1, Nancia_61, Nandita_68, Neville_125, Nubia_61, ODay_1, OMalley_60, Octobien14_124, Ogopogo_2, Oppalora_68, Orcanus_65, OtsoOtso_72, OurGirlNessie_59, Oxynfrius_62, Periwinkle_1, Phabuloso_1, PhirstandPhine_78, Phistory_1, PhluffyCoco_68, Pineda_74, PinkFriday_61, Piper2020_1, PitaDog_61, Plumbus_1, Polka_71, Popper_70, Potatoes_62, PrairieDogTown_52, Preamble_64, Pterodactyl_61, Pumancara_61, Puppers_62, Quico_1, QuinnAvery_70, RAP15_63, Rabbitrun_127, Rattail_71, RcigaStruga_62, RedFox_71, RegnumDei_114, Renna12_72, Reyja_65, Rialto_1, Riovina_60, Riverdale_61, Rozby_60, Ruchi_64, Ryan_70, SFuller_100, Santhid_59, Sapo_61, Savage2526_61, Schism_71, Schmidt_58, Scuttle_61, Sephiroth_123, Sergei_60, Shagrat_110, SilverChicken_1, Slim_1, Soul22_1, Splinter_64, Spooky_1, Squiddly_2, Squirty_1, Starcevich_1, StuartMinion_61, Supakev_60, Syleon_128, TZGordon_65, Tarzan_63, TattModd_61, TaylorSipht_65, Tchotchke_1, Temper16_60, TinaLin_63, Toad24_68, ToastyOats_69, Toodles_68, TootsiePop_1, Totinger_1, Trax_126, Trine_65, Typha_129, Upyo_69, Urla_62, Vallejo_62, Vendetta_64, Vulpecula_64, Vulture_60, Wawa_62, Whitney_1, Widow_62, WileyE_66, WonderBoy_59, Yonex_69, Yoshi_1, Zaheer_69, Zapner_2, Zhuangyuan_77, Zixiang_67, Zorro_62,

Summary by start number:

Start 30:
• Found in 5 of 373 (1.3%) of genes in pham
• Manual Annotations of this start: 1 of 328
• Called 20.0% of time when present
• Phage (with cluster) where this start called: Melons_73 (AS2),

Start 41:
• Found in 2 of 373 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 328
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Lunar_73 (AS2),

Start 53:
• Found in 11 of 373 (2.9%) of genes in pham
• Manual Annotations of this start: 8 of 328
• Called 81.8% of time when present
• Phage (with cluster) where this start called: Amelia_71 (AS2), Colusalem_71 (AS2), Coral_72 (AS2), Cote_75 (AS2), Daob_71 (AS2), Kepler_75 (AS2), OtsoOtso_72 (AS2), PhirstandPhine_78 (AS2), Polka_71 (AS2),

Start 60:
• Found in 6 of 373 (1.6%) of genes in pham
• Manual Annotations of this start: 3 of 328
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Hibiscus_63 (DY), Jojo24_63 (DY), Reyja_65 (DY),

Start 61:
• Found in 2 of 373 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 328
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Morrissey_63 (CD),

Start 70:
• Found in 14 of 373 (3.8%) of genes in pham
• Manual Annotations of this start: 6 of 328
• Called 42.9% of time when present
• Phage (with cluster) where this start called: Elesar_62 (FF), Gustav_68 (CD), IsHungry_64 (FF), Kihatsu_69 (FF), Mahdia_60 (CD), Popper_70 (FF),

Start 71:
• Found in 3 of 373 (0.8%) of genes in pham
• Manual Annotations of this start: 1 of 328
• Called 33.3% of time when present
• Phage (with cluster) where this start called: PrairieDogTown_52 (FO),

Start 75:
• Found in 31 of 373 (8.3%) of genes in pham
• Manual Annotations of this start: 5 of 328
• Called 19.4% of time when present
• Phage (with cluster) where this start called: Akino08_66 (EB), HunterDalle_60 (AK), Loviatar_67 (EB), PastaFagioli_71 (EB), PondAmelia_83 (EB), Vulture_60 (AK),

Start 78:
• Found in 33 of 373 (8.8%) of genes in pham
• Manual Annotations of this start: 2 of 328
• Called 6.1% of time when present
• Phage (with cluster) where this start called: Puppers_62 (CD), Widow_62 (CD),

Start 80:
• Found in 2 of 373 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 328
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Trine_65 (CD),

Start 81:
• Found in 10 of 373 (2.7%) of genes in pham
• Manual Annotations of this start: 1 of 328
• Called 10.0% of time when present
• Phage (with cluster) where this start called: Upyo_69 (CD),

Start 82:

• Found in 1 of 373 (0.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Applejacks_62 (CD),

Start 85:
• Found in 14 of 373 (3.8%) of genes in pham
• Manual Annotations of this start: 5 of 328
• Called 42.9% of time when present
• Phage (with cluster) where this start called: AuntGwenStacy_132 (Y), Bipper_136 (Y), Cracklewink_136 (Y), Faiyaz_132 (Y), Hilltopfarm_134 (Y), Typha_129 (Y),

Start 88:
• Found in 1 of 373 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 328
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kuleana_76 (AS2),

Start 90:
• Found in 1 of 373 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 328
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Archimedes_60 (DA),

Start 94:
• Found in 4 of 373 (1.1%) of genes in pham
• Manual Annotations of this start: 3 of 328
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Anatole_55 (BV), B3_57 (BV), E1_55 (BV),

Start 95:
• Found in 3 of 373 (0.8%) of genes in pham
• Manual Annotations of this start: 1 of 328
• Called 66.7% of time when present
• Phage (with cluster) where this start called: GoodLuckBabe_69 (FF), Schism_71 (FF),

Start 96:
• Found in 4 of 373 (1.1%) of genes in pham
• Manual Annotations of this start: 1 of 328
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Dardanus_58 (CU3),

Start 97:
• Found in 2 of 373 (0.5%) of genes in pham
• Manual Annotations of this start: 2 of 328
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Catfish_64 (CU5), Nandita_68 (FF),

Start 99:
• Found in 29 of 373 (7.8%) of genes in pham
• Manual Annotations of this start: 11 of 328

• Called 58.6% of time when present
• Phage (with cluster) where this start called: AllBusiness_65 (FF), Cole_64 (FF), Dirtdigger_65 (FF), Donatella_69 (FF), Guinevere_71 (FF), Gusanita_70 (FF), Halloweekend_62 (FF), Ichiang_65 (FF), Julie_67 (FF), Lenoxika_66 (FF), MillySue_69 (FF), QuinnAvery_70 (FF), Ryan_70 (FF), ToastyOats_69 (FF), Toodles_68 (FF), Yonex_69 (FF), Zaheer_69 (FF),

Start 100:
• Found in 24 of 373 (6.4%) of genes in pham
• Manual Annotations of this start: 1 of 328
• Called 8.3% of time when present
• Phage (with cluster) where this start called: Jflix2_101 (CF), SFuller_100 (CF),

Start 101:
• Found in 8 of 373 (2.1%) of genes in pham
• Manual Annotations of this start: 8 of 328
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Banquo_63 (CU1), DinoDaryn_64 (CU1), Huffy_64 (CU1), Schmidt_58 (CU4), Splinter_64 (CU1), TZGordon_65 (CU1), TinaLin_63 (CU1), Vendetta_64 (CU1),

Start 102:
• Found in 6 of 373 (1.6%) of genes in pham
• Manual Annotations of this start: 3 of 328
• Called 66.7% of time when present
• Phage (with cluster) where this start called: AlexMinion_71 (AS3), Babushka_66 (AS3), Renna12_72 (AS3), StuartMinion_61 (AS3),

Start 104:
• Found in 64 of 373 (17.2%) of genes in pham
• Manual Annotations of this start: 57 of 328
• Called 98.4% of time when present
• Phage (with cluster) where this start called: Aloeri_1 (F1), Asapag_1 (DN1), Avani_1 (F2), Awesomesauce_1 (F1), BENtherdunthat_1 (DN1), BotCity_1 (DN), Brushbloom_1 (F1), Budski_1 (DN), Che9d_1 (F2), CheeseTouch_1 (DN1), ChickenDinner_1 (F1), Cornucopia_1 (F1), Demsculpinboyz_1 (F2), DocMcStuffins_1 (F1), Doomslug_1 (F), Ecliptus_1 (DN), Emmaloid_1 (F1), Flathead_1 (F1), Frankie_1 (F1), Frickyeah_1 (DN1), Getalong_1 (DN1), Girafales_1 (F1), Hegedechwinu_1 (F1), Holliday_1 (DN1), Horus_1 (DN1), Jabbawokkie_2 (F2), Job42_1 (F1), Juice456_1 (F1), Kamaru_1 (DN1), Kenna_1 (DN1), Kimberlium_1 (F1), Leroy_1 (DN1), LitninMcQueen_1 (DN1), LittleShirley_1 (F1), LordVader_1 (F), Lutum_1 (DN1), Malisha_1 (DN), Misha28_1 (F1), Mova_1 (F1), Mozy_1 (F1), MulchExplorer_1 (F1), ODay_1 (DN), Ogopogo_2 (F1), Periwinkle_1 (DN1), Phabuloso_1 (DN1), Phistory_1 (DN1), Piper2020_1 (F1), Plumbus_1 (F1), Quico_1 (F1), Rialto_1 (F1), SilverChicken_1 (F2), Slim_1 (F1), Soul22_1 (F2), Spooky_1 (DN2), Squiddly_2 (DN2), Squirty_1 (F3), Starcevich_1 (F1), Tchotchke_1 (F1), TootsiePop_1 (F1), Totinger_1 (F1), Whitney_1 (DN1), Yoshi_1 (F2), Zapner_2 (F2),

Start 105:
• Found in 17 of 373 (4.6%) of genes in pham
• Manual Annotations of this start: 9 of 328
• Called 94.1% of time when present

• Phage (with cluster) where this start called: AdoptaAdorbs_68 (AS3), AmiCi24_68 (AS3), Amphitrite_69 (AS3), Atlantica_70 (AS3), Camara_69 (AS3), DanHam62_70 (AS3), Fingolfin_70 (AS3), Glotell_71 (AS3), HamCheese_69 (AS3), Juno112_69 (AS3), KHumphrey_70 (AS3), Laphuphu24k_68 (AS3), Oppalora_68 (AS3), PhluffyCoco_68 (AS3), Rattail_71 (AS3), RedFox_71 (AS3),

Start 106:
• Found in 1 of 373 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 328
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Sapo_61 (DA),

Start 107:
• Found in 10 of 373 (2.7%) of genes in pham
• Manual Annotations of this start: 8 of 328
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Altostratus_69 (FS), Khuang_70 (FS), Kudefre_128 (DU1), LilJank_122 (DU2), Neville_125 (DU2), Octobien14_124 (DU1), Rabbitrun_127 (DU2), Sephiroth_123 (DU1), Syleon_128 (DU1), Trax_126 (DU2),

Start 108:
• Found in 3 of 373 (0.8%) of genes in pham
• Manual Annotations of this start: 1 of 328
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Frizzle_58 (DA),

Start 109:
• Found in 7 of 373 (1.9%) of genes in pham
• Manual Annotations of this start: 1 of 328
• Called 14.3% of time when present
• Phage (with cluster) where this start called: Basilisk_66 (AS1),

Start 110:
• Found in 3 of 373 (0.8%) of genes in pham
• Manual Annotations of this start: 1 of 328
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Azaz_72 (AS3), Leona_68 (AS3),

Start 111:
• Found in 26 of 373 (7.0%) of genes in pham
• Manual Annotations of this start: 1 of 328
• Called 11.5% of time when present
• Phage (with cluster) where this start called: Bibble12_75 (AS2), Huntingdon_61 (AK), Pineda_74 (AS2),

Start 113:
• Found in 53 of 373 (14.2%) of genes in pham
• Manual Annotations of this start: 16 of 328
• Called 30.2% of time when present
• Phage (with cluster) where this start called: Bennie_63 (AK), Christian_61 (AK), Dino_62 (AK), DrRobert_59 (AK), Fluke_62 (AK), Glenn_64 (AK), Heinz_62 (DY), Lucy_60 (AK), MeganNoll_63 (AK), MrGloopy_62 (AK), PitaDog_61 (AK), RAP15_63 (AK), Santhid_59 (DY), Scuttle_61 (AK), Tarzan_63 (DY), Vallejo_62 (AK),

Start 114:
• Found in 2 of 373 (0.5%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: BFK20_ORF55 (singleton),

Start 115:
• Found in 8 of 373 (2.1%) of genes in pham
• Manual Annotations of this start: 4 of 328
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Canowicakte_62 (AK), Graynor_65 (AK), MrBoss_63 (AK), PartyCup_62 (AK), Suppi_62 (AK), Wayne_64 (AK),

Start 116:
• Found in 5 of 373 (1.3%) of genes in pham
• Manual Annotations of this start: 4 of 328
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Aoka_54 (FO), CocoCinnamon_58 (FO), EvenBluerMoon_51 (FO), JanetJ_52 (FO),

Start 117:
• Found in 4 of 373 (1.1%) of genes in pham
• No Manual Annotations of this start.
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Min1_34 (singleton),

Start 118:
• Found in 2 of 373 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 328
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CurlyFries_118 (CF), Shagrat_110 (CF),

Start 119:
• Found in 19 of 373 (5.1%) of genes in pham
• Manual Annotations of this start: 16 of 328
• Called 94.7% of time when present
• Phage (with cluster) where this start called: Abidatro_66 (AS1), Antrice_75 (AS2), Brynnie_64 (AS1), Chickaboom_66 (AS1), Cygnet_73 (AS2), Eesa_65 (AS1), Galaxy_65 (AS1), Jamun_63 (AS1), KendraB23_76 (AS1), LittleTokyo_73 (AS2), Orcanus_65 (AS1), Ruchi_64 (AS1), TaylorSipht_65 (AS1), Toad24_68 (AS1), Vulpecula_64 (AS1), WileyE_66 (AS1), Zhuangyuan_77 (AS2), Zixiang_67 (AS1),

Start 120:
• Found in 1 of 373 (0.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: RegnumDei_114 (CF),

Start 122:
• Found in 94 of 373 (25.2%) of genes in pham
• Manual Annotations of this start: 76 of 328
• Called 87.2% of time when present

• Phage (with cluster) where this start called: Abigail_70 (EB), Albedo_70 (EB), Albright_69 (EB), AnnaLie_70 (EB), Armstrong_70 (EB), Arroyo_71 (EB), AvGardian_70 (EB), Avocadoman_69 (EB), AylexOG_71 (EB), BAjuniper_68 (EB), BabyDaisy_71 (EB), BabyYoda_68 (EB), Bachaco_66 (EB), BelmontSKP_70 (EB), Bengal_71 (EB), Bernstein_70 (EB), Brahms_70 (EB), BubbaBear_68 (EB), Buldak_69 (EB), Burritobowl_72 (EB), Cashington_69 (EB), Celaena_66 (EB), Clayda5_72 (EB), CliffHanger_78 (EB), Coltrane_70 (EB), CroZenni_71 (EB), CupcakePrincess_71 (EB), DickRichards_68 (EB), Didgeridoo_75 (EB), DirtyBubble_69 (EB), Dismas_67 (EB), Doobus_68 (EB), Eden_72 (EB), Elva_73 (EB), Eula_69 (EB), Finalfrontier_69 (EB), FlameThrower_65 (EB), Franklin22_74 (EB), Gack_71 (EB), Icarian_72 (EB), IndyLu_71 (EB), Jabb_71 (EB), Johnathan_70 (EB), Jovita_68 (EB), Kate33_73 (EB), Katzastrophic_67 (EB), Kenzers_69 (EB), Kieran_65 (EB), Lahqtemish_69 (EB), Lilo27_70 (EB), LimaBean_68 (EB), Lynlen_71 (EB), Milomuff_72 (EB), MsUbiquitous_71 (EB), Nicky22_69 (EB), Olliecat_66 (EB), Pecas_70 (EB), PhigPhack_73 (EB), Phisb_72 (EB), QMacho_72 (EB), Quenya_69 (EB), Rollins_70 (EB), Rona_66 (EB), SanaSana_70 (EB), SansAfet_72 (EB), SarBear_72 (EB), Sharkboy_68 (EB), Shayna_75 (EB), SirBeanington_70 (EB), Skylord_70 (EB), Slay_70 (EB), Softsoap_71 (EB), Solea_73 (EB), Squircle_66 (EB), Stoor_69 (EB), Stromboli_68 (EB), SunnyD_75 (EB), Swervy_70 (EB), Teagster_75 (EB), TukTuk_70 (EB), Vitas_71 (EB), WalkingDead_71 (EB),

Start 123:
• Found in 1 of 373 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 328
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AppleCider_61 (AK),

Start 124:
• Found in 86 of 373 (23.1%) of genes in pham
• Manual Annotations of this start: 63 of 328
• Called 73.3% of time when present
• Phage (with cluster) where this start called: Albanese_61 (AK), Aledel_60 (AK), AustinPowers_60 (AK), Beethoven_63 (AK), BigMack_61 (AK), Bodacious_61 (AK), BrotherBLo_62 (AK), CallieOMalley_62 (AK), Carpal_61 (AK), ChewChew_61 (AK), Cholula_62 (AK), Chridison_57 (AK), CristinaYang_61 (AK), Daiboju_60 (AK), DreamTeam_61 (AK), EstebanJulior_60 (AK), Eunoia_62 (AK), Gisselle_61 (AK), GreenHearts_62 (AK), Greenhouse_61 (AK), HeadNerd_62 (AK), Herb_60 (AK), Huckleberry_62 (AK), Immaculata_62 (AK), Joann_63 (AK), Jumboset_62 (AK), Kalizoi_62 (AK), KingBob_60 (AK), Kittykat_65 (AK), Korra_62 (AK), Lakshmi_61 (AK), Lasagna_59 (AK), Lennox_61 (AK), LilStuart_60 (AK), Litotes_62 (AK), Makoto_60 (AK), MamaPearl_60 (AK), Maria1952_59 (AK), Misaeng_61 (AK), Moki_62 (AK), Nancia_61 (AK), Nubia_61 (AK), OMalley_60 (AK), OurGirlNessie_59 (AK), Oxynfrius_62 (AK), PinkFriday_61 (AK), Potatoes_62 (AK), Preamble_64 (AK), Pterodactyl_61 (AK), Pumancara_61 (AK), RcigaStruga_62 (AK), Riovina_60 (AK), Riverdale_61 (AK), Rozby_60 (AK), Savage2526_61 (AK), Sergei_60 (AK), Supakev_60 (AK), TattModd_61 (AK), Temper16_60 (AK), Urla_62 (AK), Wawa_62 (AK), WonderBoy_59 (AK), Zorro_62 (AK),

Start 136:
• Found in 2 of 373 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 328
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Ghobes_59 (DA),

Summary by clusters:

There are 28 clusters represented in this pham: DN, singleton, FS, DA, BV, FF, DY, FO, CU5, CU4, CU3, CU1, DN1, DN2, DU1, DU2, AS3, AS2, AS1, F, AK, CF, CD, Y, EB, F1, F2, F3,

Info for manual annotations of cluster AK:
•Start number 75 was manually annotated 2 times for cluster AK.
•Start number 111 was manually annotated 1 time for cluster AK.
•Start number 113 was manually annotated 13 times for cluster AK.
•Start number 115 was manually annotated 4 times for cluster AK.
•Start number 123 was manually annotated 1 time for cluster AK.
•Start number 124 was manually annotated 63 times for cluster AK.

Info for manual annotations of cluster AS1:
•Start number 109 was manually annotated 1 time for cluster AS1.
•Start number 119 was manually annotated 12 times for cluster AS1.

Info for manual annotations of cluster AS2:
•Start number 30 was manually annotated 1 time for cluster AS2.
•Start number 41 was manually annotated 1 time for cluster AS2.
•Start number 53 was manually annotated 8 times for cluster AS2.
•Start number 88 was manually annotated 1 time for cluster AS2.
•Start number 119 was manually annotated 4 times for cluster AS2.

Info for manual annotations of cluster AS3:
•Start number 102 was manually annotated 3 times for cluster AS3.
•Start number 105 was manually annotated 9 times for cluster AS3.
•Start number 110 was manually annotated 1 time for cluster AS3.

Info for manual annotations of cluster BV:
•Start number 94 was manually annotated 3 times for cluster BV.

Info for manual annotations of cluster CD:
•Start number 61 was manually annotated 1 time for cluster CD.
•Start number 70 was manually annotated 2 times for cluster CD.
•Start number 78 was manually annotated 2 times for cluster CD.
•Start number 80 was manually annotated 1 time for cluster CD.
•Start number 81 was manually annotated 1 time for cluster CD.

Info for manual annotations of cluster CF:
•Start number 100 was manually annotated 1 time for cluster CF.
•Start number 118 was manually annotated 1 time for cluster CF.

Info for manual annotations of cluster CU1:
•Start number 101 was manually annotated 7 times for cluster CU1.

Info for manual annotations of cluster CU3:
•Start number 96 was manually annotated 1 time for cluster CU3.

Info for manual annotations of cluster CU4:
•Start number 101 was manually annotated 1 time for cluster CU4.

Info for manual annotations of cluster CU5:
•Start number 97 was manually annotated 1 time for cluster CU5.

Info for manual annotations of cluster DA:
•Start number 90 was manually annotated 1 time for cluster DA.
•Start number 106 was manually annotated 1 time for cluster DA.
•Start number 108 was manually annotated 1 time for cluster DA.
•Start number 136 was manually annotated 1 time for cluster DA.

Info for manual annotations of cluster DN:
•Start number 104 was manually annotated 5 times for cluster DN.

Info for manual annotations of cluster DN1:
•Start number 104 was manually annotated 15 times for cluster DN1.

Info for manual annotations of cluster DN2:
•Start number 104 was manually annotated 2 times for cluster DN2.

Info for manual annotations of cluster DU1:
•Start number 107 was manually annotated 4 times for cluster DU1.

Info for manual annotations of cluster DU2:
•Start number 107 was manually annotated 3 times for cluster DU2.

Info for manual annotations of cluster DY:
•Start number 60 was manually annotated 3 times for cluster DY.
•Start number 113 was manually annotated 3 times for cluster DY.

Info for manual annotations of cluster EB:
•Start number 75 was manually annotated 3 times for cluster EB.
•Start number 122 was manually annotated 76 times for cluster EB.

Info for manual annotations of cluster F1:
•Start number 104 was manually annotated 27 times for cluster F1.

Info for manual annotations of cluster F2:
•Start number 104 was manually annotated 7 times for cluster F2.

Info for manual annotations of cluster F3:
•Start number 104 was manually annotated 1 time for cluster F3.

Info for manual annotations of cluster FF:
•Start number 70 was manually annotated 4 times for cluster FF.
•Start number 95 was manually annotated 1 time for cluster FF.
•Start number 97 was manually annotated 1 time for cluster FF.
•Start number 99 was manually annotated 11 times for cluster FF.

Info for manual annotations of cluster FO:
•Start number 71 was manually annotated 1 time for cluster FO.
•Start number 116 was manually annotated 4 times for cluster FO.

Info for manual annotations of cluster FS:
•Start number 107 was manually annotated 1 time for cluster FS.

Info for manual annotations of cluster Y:
•Start number 85 was manually annotated 5 times for cluster Y.

Gene Information:
Gene: Abidatro_66 Start: 38766, Stop: 39044, Start Num: 119
Candidate Starts for Abidatro_66:
(44, 38640), (Start: 119 @38766 has 16 MA's),

Gene: Abigail_70 Start: 40540, Stop: 40815, Start Num: 122
Candidate Starts for Abigail_70:
(Start: 122 @40540 has 76 MA's),

Gene: AdoptaAdorbs_68 Start: 37992, Stop: 38279, Start Num: 105
Candidate Starts for AdoptaAdorbs_68:
(Start: 105 @37992 has 9 MA's), (160, 38145), (173, 38208),

Gene: Akino08_66 Start: 42028, Stop: 42363, Start Num: 75
Candidate Starts for Akino08_66:
(62, 42013), (Start: 75 @42028 has 5 MA's), (Start: 100 @42061 has 1 MA's), (Start: 122 @42088 has 76 MA's), (131, 42121), (171, 42277),

Gene: Albanese_61 Start: 43774, Stop: 44034, Start Num: 124
Candidate Starts for Albanese_61:
(Start: 124 @43774 has 63 MA's), (126, 43780), (140, 43831), (141, 43834), (176, 43978),

Gene: Albedo_70 Start: 41350, Stop: 41625, Start Num: 122
Candidate Starts for Albedo_70:
(Start: 122 @41350 has 76 MA's), (170, 41536),

Gene: Albright_69 Start: 40420, Stop: 40695, Start Num: 122
Candidate Starts for Albright_69:
(Start: 122 @40420 has 76 MA's),

Gene: Aledel_60 Start: 43400, Stop: 43660, Start Num: 124
Candidate Starts for Aledel_60:
(Start: 75 @43331 has 5 MA's), (91, 43352), (Start: 124 @43400 has 63 MA's), (131, 43421), (144, 43472),

Gene: AlexMinion_71 Start: 37930, Stop: 38223, Start Num: 102
Candidate Starts for AlexMinion_71:
(66, 37888), (Start: 102 @37930 has 3 MA's), (160, 38089), (185, 38197),

Gene: AllBusiness_65 Start: 43063, Stop: 43359, Start Num: 99
Candidate Starts for AllBusiness_65:
(Start: 99 @43063 has 11 MA's), (157, 43219), (160, 43228), (173, 43291), (185, 43333),

Gene: Aloeri_1 Start: 42, Stop: 374, Start Num: 104

Candidate Starts for Aloeri_1:
(Start: 78 @9 has 2 MA's), (Start: 85 @15 has 5 MA's), (Start: 104 @42 has 57 MA's), (135, 120), (157, 213), (163, 237), (172, 285), (185, 339), (189, 354),

Gene: Altostratus_69 Start: 38971, Stop: 39267, Start Num: 107
Candidate Starts for Altostratus_69:
(Start: 107 @38971 has 8 MA's), (125, 39001), (153, 39097), (162, 39139),

Gene: Amelia_71 Start: 37701, Stop: 38054, Start Num: 53
Candidate Starts for Amelia_71:
(Start: 53 @37701 has 8 MA's), (Start: 111 @37767 has 1 MA's),

Gene: AmiCi24_68 Start: 38101, Stop: 38388, Start Num: 105
Candidate Starts for AmiCi24_68:
(Start: 105 @38101 has 9 MA's), (160, 38254), (173, 38317),

Gene: Amphitrite_69 Start: 38005, Stop: 38292, Start Num: 105
Candidate Starts for Amphitrite_69:
(Start: 105 @38005 has 9 MA's), (160, 38158), (173, 38221),

Gene: Anatole_55 Start: 34869, Stop: 35189, Start Num: 94
Candidate Starts for Anatole_55:
(3, 34596), (5, 34635), (6, 34644), (9, 34659), (22, 34725), (23, 34728), (34, 34752), (39, 34770), (51, 34800), (Start: 94 @34869 has 3 MA's), (117, 34899), (139, 34974), (188, 35172),

Gene: AnnaLie_70 Start: 41202, Stop: 41477, Start Num: 122
Candidate Starts for AnnaLie_70:
(Start: 122 @41202 has 76 MA's), (170, 41388),

Gene: Antrice_75 Start: 38862, Stop: 39140, Start Num: 119
Candidate Starts for Antrice_75:
(112, 38853), (Start: 119 @38862 has 16 MA's),

Gene: Aoka_54 Start: 36392, Stop: 36673, Start Num: 116
Candidate Starts for Aoka_54:
(Start: 71 @36335 has 1 MA's), (Start: 116 @36392 has 4 MA's),

Gene: AppleCider_61 Start: 43353, Stop: 43619, Start Num: 123
Candidate Starts for AppleCider_61:
(Start: 123 @43353 has 1 MA's), (Start: 124 @43359 has 63 MA's),

Gene: Applejacks_62 Start: 41851, Stop: 42168, Start Num: 82
Candidate Starts for Applejacks_62:
(31, 41746), (48, 41791), (82, 41851), (165, 42061),

Gene: Archimedes_60 Start: 44555, Stop: 44878, Start Num: 90
Candidate Starts for Archimedes_60:
(Start: 90 @44555 has 1 MA's), (Start: 108 @44582 has 1 MA's), (114, 44588), (141, 44672), (143, 44681), (185, 44852),

Gene: Armstrong_70 Start: 39580, Stop: 39855, Start Num: 122
Candidate Starts for Armstrong_70:

(18, 39382), (21, 39397), (32, 39424), (45, 39457), (62, 39505), (Start: 75 @39520 has 5 MA's), (Start: 100 @39553 has 1 MA's), (Start: 122 @39580 has 76 MA's),

Gene: Arroyo_71 Start: 41666, Stop: 41941, Start Num: 122
Candidate Starts for Arroyo_71:
(Start: 122 @41666 has 76 MA's), (170, 41852),

Gene: Asapag_1 Start: 39, Stop: 371, Start Num: 104
Candidate Starts for Asapag_1:
(Start: 78 @9 has 2 MA's), (83, 15), (93, 27), (Start: 104 @39 has 57 MA's), (141, 141), (142, 144), (163, 234), (168, 264), (172, 282), (189, 351),

Gene: Atlantica_70 Start: 38103, Stop: 38390, Start Num: 105
Candidate Starts for Atlantica_70:
(Start: 105 @38103 has 9 MA's), (160, 38256), (173, 38319),

Gene: AuntGwenStacy_132 Start: 74981, Stop: 75304, Start Num: 85
Candidate Starts for AuntGwenStacy_132:
(Start: 85 @74981 has 5 MA's), (148, 75131), (169, 75212), (174, 75236), (176, 75248),

Gene: AustinPowers_60 Start: 43422, Stop: 43682, Start Num: 124
Candidate Starts for AustinPowers_60:
(Start: 75 @43353 has 5 MA's), (91, 43374), (Start: 124 @43422 has 63 MA's), (131, 43443), (144, 43494),

Gene: AvGardian_70 Start: 41184, Stop: 41459, Start Num: 122
Candidate Starts for AvGardian_70:
(Start: 122 @41184 has 76 MA's), (163, 41334), (170, 41370),

Gene: Avani_1 Start: 38, Stop: 370, Start Num: 104
Candidate Starts for Avani_1:
(79, 11), (Start: 104 @38 has 57 MA's), (135, 116), (142, 143), (163, 233), (168, 263), (172, 281), (182, 326), (189, 350),

Gene: Avocadoman_69 Start: 40737, Stop: 41012, Start Num: 122
Candidate Starts for Avocadoman_69:
(Start: 122 @40737 has 76 MA's),

Gene: Awesomesauce_1 Start: 42, Stop: 374, Start Num: 104
Candidate Starts for Awesomesauce_1:
(Start: 78 @9 has 2 MA's), (Start: 85 @15 has 5 MA's), (Start: 104 @42 has 57 MA's), (133, 111), (135, 120), (157, 213), (163, 237), (168, 267), (172, 285), (182, 330), (185, 339), (189, 354),

Gene: AylexOG_71 Start: 41421, Stop: 41696, Start Num: 122
Candidate Starts for AylexOG_71:
(Start: 122 @41421 has 76 MA's), (170, 41607),

Gene: Azaz_72 Start: 38251, Stop: 38532, Start Num: 110
Candidate Starts for Azaz_72:
(Start: 110 @38251 has 1 MA's), (160, 38398), (173, 38461),

Gene: B3_57 Start: 35532, Stop: 35852, Start Num: 94
Candidate Starts for B3_57:

(3, 35259), (5, 35298), (6, 35307), (9, 35322), (22, 35388), (23, 35391), (34, 35415), (39, 35433), (51, 35463), (Start: 94 @35532 has 3 MA's), (117, 35562), (139, 35637), (188, 35835),

Gene: BAjuniper_68 Start: 41633, Stop: 41908, Start Num: 122
Candidate Starts for BAjuniper_68:
(52, 41528), (62, 41558), (Start: 75 @41573 has 5 MA's), (Start: 100 @41606 has 1 MA's), (Start: 122 @41633 has 76 MA's), (131, 41666), (170, 41819),

Gene: BENtherdunthat_1 Start: 39, Stop: 371, Start Num: 104
Candidate Starts for BENtherdunthat_1:
(Start: 78 @9 has 2 MA's), (83, 15), (93, 27), (Start: 104 @39 has 57 MA's), (141, 141), (142, 144), (163, 234), (168, 264), (172, 282), (189, 351),

Gene: BFK20_ORF55 Start: 42590, Stop: 42880, Start Num: 114
Candidate Starts for BFK20_ORF55:
(87, 42557), (98, 42575), (114, 42590), (127, 42617), (141, 42674), (164, 42761), (182, 42845),

Gene: Babushka_66 Start: 38003, Stop: 38302, Start Num: 102
Candidate Starts for Babushka_66:
(Start: 102 @38003 has 3 MA's), (160, 38168), (173, 38231),

Gene: BabyDaisy_71 Start: 41763, Stop: 42038, Start Num: 122
Candidate Starts for BabyDaisy_71:
(55, 41664), (62, 41688), (Start: 75 @41703 has 5 MA's), (Start: 100 @41736 has 1 MA's), (Start: 111 @41751 has 1 MA's), (Start: 122 @41763 has 76 MA's),

Gene: BabyYoda_68 Start: 41093, Stop: 41368, Start Num: 122
Candidate Starts for BabyYoda_68:
(Start: 122 @41093 has 76 MA's), (131, 41126), (170, 41279), (171, 41282),

Gene: Bachaco_66 Start: 42043, Stop: 42318, Start Num: 122
Candidate Starts for Bachaco_66:
(27, 41878), (Start: 30 @41887 has 1 MA's), (32, 41890), (51, 41938), (62, 41968), (Start: 75 @41983 has 5 MA's), (Start: 100 @42016 has 1 MA's), (Start: 122 @42043 has 76 MA's), (170, 42229), (187, 42301),

Gene: Banquo_63 Start: 39126, Stop: 39422, Start Num: 101
Candidate Starts for Banquo_63:
(69, 39084), (Start: 101 @39126 has 8 MA's), (128, 39168), (180, 39384),

Gene: Basilisk_66 Start: 38281, Stop: 38571, Start Num: 109
Candidate Starts for Basilisk_66:
(46, 38188), (62, 38218), (Start: 109 @38281 has 1 MA's), (Start: 119 @38293 has 16 MA's),

Gene: Beethoven_63 Start: 43598, Stop: 43858, Start Num: 124
Candidate Starts for Beethoven_63:
(Start: 113 @43580 has 16 MA's), (Start: 124 @43598 has 63 MA's), (130, 43616), (144, 43670),

Gene: BelmontSKP_70 Start: 41202, Stop: 41477, Start Num: 122
Candidate Starts for BelmontSKP_70:
(Start: 122 @41202 has 76 MA's), (170, 41388),

Gene: Bengal_71 Start: 41208, Stop: 41483, Start Num: 122

Candidate Starts for Bengal_71:
(35, 41055), (38, 41070), (62, 41133), (Start: 75 @41148 has 5 MA's), (Start: 100 @41181 has 1 MA's), (Start: 111 @41196 has 1 MA's), (Start: 122 @41208 has 76 MA's), (170, 41394),

Gene: Bennie_63 Start: 42720, Stop: 42998, Start Num: 113
Candidate Starts for Bennie_63:
(Start: 113 @42720 has 16 MA's), (Start: 124 @42738 has 63 MA's), (130, 42756), (144, 42810), (180, 42963),

Gene: Bernstein_70 Start: 39578, Stop: 39853, Start Num: 122
Candidate Starts for Bernstein_70:
(18, 39380), (21, 39395), (32, 39422), (45, 39455), (62, 39503), (Start: 75 @39518 has 5 MA's), (Start: 100 @39551 has 1 MA's), (Start: 122 @39578 has 76 MA's),

Gene: Bibble12_75 Start: 38337, Stop: 38624, Start Num: 111
Candidate Starts for Bibble12_75:
(Start: 53 @38274 has 8 MA's), (Start: 111 @38337 has 1 MA's),

Gene: BigMack_61 Start: 43021, Stop: 43281, Start Num: 124
Candidate Starts for BigMack_61:
(Start: 113 @43003 has 16 MA's), (Start: 124 @43021 has 63 MA's), (130, 43039), (171, 43198), (180, 43246),

Gene: Bipper_136 Start: 77103, Stop: 77429, Start Num: 85
Candidate Starts for Bipper_136:
(Start: 85 @77103 has 5 MA's), (137, 77217), (141, 77229), (162, 77304), (174, 77361), (176, 77373),

Gene: Bodacious_61 Start: 42903, Stop: 43163, Start Num: 124
Candidate Starts for Bodacious_61:
(Start: 113 @42885 has 16 MA's), (Start: 124 @42903 has 63 MA's), (130, 42921), (171, 43080), (185, 43137), (186, 43143),

Gene: BotCity_1 Start: 39, Stop: 371, Start Num: 104
Candidate Starts for BotCity_1:
(Start: 78 @9 has 2 MA's), (83, 15), (Start: 104 @39 has 57 MA's), (135, 117), (141, 141), (163, 234), (172, 282), (178, 318), (189, 351),

Gene: Brahms_70 Start: 39480, Stop: 39755, Start Num: 122
Candidate Starts for Brahms_70:
(18, 39282), (21, 39297), (32, 39324), (45, 39357), (62, 39405), (Start: 75 @39420 has 5 MA's), (Start: 100 @39453 has 1 MA's), (Start: 122 @39480 has 76 MA's),

Gene: BrotherBLo_62 Start: 43314, Stop: 43574, Start Num: 124
Candidate Starts for BrotherBLo_62:
(Start: 113 @43296 has 16 MA's), (Start: 124 @43314 has 63 MA's), (130, 43332), (144, 43386),

Gene: Brushbloom_1 Start: 40, Stop: 372, Start Num: 104
Candidate Starts for Brushbloom_1:
(76, 7), (Start: 81 @13 has 1 MA's), (Start: 104 @40 has 57 MA's), (133, 109), (135, 118), (157, 211), (172, 283), (182, 328), (185, 337), (189, 352),

Gene: Brynnie_64 Start: 38238, Stop: 38516, Start Num: 119
Candidate Starts for Brynnie_64:

(Start: 109 @38226 has 1 MA's), (Start: 119 @38238 has 16 MA's),

Gene: BubbaBear_68 Start: 41351, Stop: 41626, Start Num: 122
Candidate Starts for BubbaBear_68:
(Start: 122 @41351 has 76 MA's),

Gene: Budski_1 Start: 39, Stop: 371, Start Num: 104
Candidate Starts for Budski_1:
(Start: 78 @9 has 2 MA's), (83, 15), (Start: 104 @39 has 57 MA's), (135, 117), (141, 141), (163, 234),
(172, 282), (178, 318), (189, 351),

Gene: Buldak_69 Start: 39158, Stop: 39433, Start Num: 122
Candidate Starts for Buldak_69:
(Start: 122 @39158 has 76 MA's), (170, 39344),

Gene: Burritobowl_72 Start: 40954, Stop: 41229, Start Num: 122
Candidate Starts for Burritobowl_72:
(Start: 122 @40954 has 76 MA's),

Gene: CallieOMalley_62 Start: 43522, Stop: 43782, Start Num: 124
Candidate Starts for CallieOMalley_62:
(Start: 99 @43489 has 11 MA's), (Start: 115 @43510 has 4 MA's), (Start: 122 @43516 has 76 MA's),
(Start: 124 @43522 has 63 MA's),

Gene: Camara_69 Start: 37993, Stop: 38280, Start Num: 105
Candidate Starts for Camara_69:
(Start: 105 @37993 has 9 MA's), (160, 38146), (173, 38209),

Gene: Canowicakte_62 Start: 43562, Stop: 43834, Start Num: 115
Candidate Starts for Canowicakte_62:
(Start: 99 @43541 has 11 MA's), (Start: 115 @43562 has 4 MA's), (Start: 122 @43568 has 76 MA's),
(Start: 124 @43574 has 63 MA's),

Gene: Carpal_61 Start: 43369, Stop: 43629, Start Num: 124
Candidate Starts for Carpal_61:
(Start: 113 @43351 has 16 MA's), (Start: 124 @43369 has 63 MA's), (130, 43387), (144, 43441),

Gene: Cashington_69 Start: 41137, Stop: 41412, Start Num: 122
Candidate Starts for Cashington_69:
(63, 41062), (77, 41077), (98, 41107), (Start: 102 @41110 has 3 MA's), (Start: 122 @41137 has 76
MA's), (170, 41323),

Gene: Catfish_64 Start: 41148, Stop: 41444, Start Num: 97
Candidate Starts for Catfish_64:
(14, 40959), (15, 40968), (64, 41106), (Start: 97 @41148 has 2 MA's), (138, 41235), (141, 41244),
(162, 41319),

Gene: Celaena_66 Start: 41809, Stop: 42084, Start Num: 122
Candidate Starts for Celaena_66:
(27, 41641), (Start: 30 @41650 has 1 MA's), (32, 41653), (51, 41701), (62, 41731), (Start: 122 @41809
has 76 MA's), (170, 41995), (187, 42067),

Gene: Che9d_1 Start: 48, Stop: 380, Start Num: 104

Candidate Starts for Che9d_1:
(79, 21), (Start: 104 @48 has 57 MA's), (135, 126), (142, 153), (163, 243), (168, 273), (172, 291), (182, 336), (189, 360),

Gene: CheeseTouch_1 Start: 39, Stop: 371, Start Num: 104
Candidate Starts for CheeseTouch_1:
(Start: 78 @9 has 2 MA's), (83, 15), (Start: 104 @39 has 57 MA's), (135, 117), (141, 141), (163, 234), (172, 282), (178, 318), (189, 351),

Gene: ChewChew_61 Start: 43103, Stop: 43363, Start Num: 124
Candidate Starts for ChewChew_61:
(Start: 113 @43085 has 16 MA's), (Start: 124 @43103 has 63 MA's), (130, 43121), (145, 43178), (171, 43280), (185, 43337), (186, 43343),

Gene: Chickaboom_66 Start: 38402, Stop: 38680, Start Num: 119
Candidate Starts for Chickaboom_66:
(Start: 109 @38390 has 1 MA's), (Start: 119 @38402 has 16 MA's),

Gene: ChickenDinner_1 Start: 42, Stop: 374, Start Num: 104
Candidate Starts for ChickenDinner_1:
(Start: 78 @9 has 2 MA's), (Start: 85 @15 has 5 MA's), (Start: 104 @42 has 57 MA's), (135, 120), (157, 213), (163, 237), (172, 285), (185, 339), (189, 354),

Gene: Cholula_62 Start: 43324, Stop: 43584, Start Num: 124
Candidate Starts for Cholula_62:
(Start: 113 @43306 has 16 MA's), (Start: 124 @43324 has 63 MA's), (130, 43342), (144, 43396),

Gene: Chridison_57 Start: 42676, Stop: 42936, Start Num: 124
Candidate Starts for Chridison_57:
(Start: 75 @42607 has 5 MA's), (91, 42628), (Start: 124 @42676 has 63 MA's), (130, 42694), (131, 42697), (144, 42748),

Gene: Christian_61 Start: 42727, Stop: 43005, Start Num: 113
Candidate Starts for Christian_61:
(Start: 113 @42727 has 16 MA's), (Start: 124 @42745 has 63 MA's), (130, 42763), (145, 42820), (171, 42922), (185, 42979), (186, 42985),

Gene: Clayda5_72 Start: 39546, Stop: 39821, Start Num: 122
Candidate Starts for Clayda5_72:
(18, 39348), (21, 39363), (32, 39390), (45, 39423), (62, 39471), (Start: 75 @39486 has 5 MA's), (Start: 100 @39519 has 1 MA's), (Start: 122 @39546 has 76 MA's),

Gene: CliffHanger_78 Start: 40817, Stop: 41092, Start Num: 122
Candidate Starts for CliffHanger_78:
(Start: 122 @40817 has 76 MA's), (131, 40850), (170, 41003), (171, 41006),

Gene: CocoCinnamon_58 Start: 36037, Stop: 36318, Start Num: 116
Candidate Starts for CocoCinnamon_58:
(103, 36019), (Start: 116 @36037 has 4 MA's), (137, 36106),

Gene: Cole_64 Start: 41483, Stop: 41779, Start Num: 99
Candidate Starts for Cole_64:
(40, 41378), (Start: 99 @41483 has 11 MA's), (140, 41579), (157, 41639), (160, 41648),

Gene: Coltrane_70 Start: 39480, Stop: 39755, Start Num: 122
Candidate Starts for Coltrane_70:
(18, 39282), (21, 39297), (32, 39324), (45, 39357), (62, 39405), (Start: 75 @39420 has 5 MA's), (Start: 100 @39453 has 1 MA's), (Start: 122 @39480 has 76 MA's),

Gene: Colusalem_71 Start: 37678, Stop: 38028, Start Num: 53
Candidate Starts for Colusalem_71:
(Start: 53 @37678 has 8 MA's), (Start: 111 @37741 has 1 MA's),

Gene: Coral_72 Start: 37893, Stop: 38243, Start Num: 53
Candidate Starts for Coral_72:
(Start: 53 @37893 has 8 MA's), (Start: 111 @37956 has 1 MA's),

Gene: Cornucopia_1 Start: 41, Stop: 373, Start Num: 104
Candidate Starts for Cornucopia_1:
(79, 11), (Start: 104 @41 has 57 MA's), (129, 86), (135, 119), (155, 200), (163, 236), (172, 284), (182, 329), (185, 338), (189, 353),

Gene: Cote_75 Start: 38617, Stop: 38970, Start Num: 53
Candidate Starts for Cote_75:
(Start: 53 @38617 has 8 MA's), (Start: 111 @38683 has 1 MA's),

Gene: Cracklewink_136 Start: 76262, Stop: 76588, Start Num: 85
Candidate Starts for Cracklewink_136:
(11, 76067), (25, 76136), (Start: 85 @76262 has 5 MA's), (137, 76376), (141, 76388), (162, 76463), (174, 76520), (176, 76532),

Gene: CristinaYang_61 Start: 43030, Stop: 43290, Start Num: 124
Candidate Starts for CristinaYang_61:
(Start: 113 @43012 has 16 MA's), (Start: 124 @43030 has 63 MA's), (130, 43048), (171, 43207), (185, 43264), (186, 43270),

Gene: CroZenni_71 Start: 41008, Stop: 41283, Start Num: 122
Candidate Starts for CroZenni_71:
(Start: 122 @41008 has 76 MA's),

Gene: CupcakePrincess_71 Start: 41251, Stop: 41526, Start Num: 122
Candidate Starts for CupcakePrincess_71:
(Start: 122 @41251 has 76 MA's),

Gene: CurlyFries_118 Start: 57838, Stop: 58110, Start Num: 118
Candidate Starts for CurlyFries_118:
(Start: 111 @57829 has 1 MA's), (Start: 118 @57838 has 1 MA's), (131, 57874), (134, 57892), (155, 57961), (160, 57982), (181, 58081),

Gene: Cygnet_73 Start: 39144, Stop: 39422, Start Num: 119
Candidate Starts for Cygnet_73:
(Start: 119 @39144 has 16 MA's), (170, 39336),

Gene: Daiboju_60 Start: 43614, Stop: 43871, Start Num: 124
Candidate Starts for Daiboju_60:
(121, 43605), (Start: 124 @43614 has 63 MA's), (130, 43632), (146, 43689), (166, 43767),

Gene: DanHam62_70 Start: 38102, Stop: 38389, Start Num: 105
Candidate Starts for DanHam62_70:
(Start: 105 @38102 has 9 MA's), (160, 38255), (173, 38318),

Gene: Daob_71 Start: 37543, Stop: 37893, Start Num: 53
Candidate Starts for Daob_71:
(Start: 53 @37543 has 8 MA's), (Start: 111 @37606 has 1 MA's),

Gene: Dardanus_58 Start: 37373, Stop: 37678, Start Num: 96
Candidate Starts for Dardanus_58:
(Start: 96 @37373 has 1 MA's), (Start: 110 @37391 has 1 MA's), (162, 37553),

Gene: Demsculpinboyz_1 Start: 38, Stop: 370, Start Num: 104
Candidate Starts for Demsculpinboyz_1:
(79, 11), (Start: 104 @38 has 57 MA's), (135, 116), (142, 143), (163, 233), (168, 263), (172, 281), (182, 326), (189, 350),

Gene: DickRichards_68 Start: 40877, Stop: 41152, Start Num: 122
Candidate Starts for DickRichards_68:
(Start: 122 @40877 has 76 MA's),

Gene: Didgeridoo_75 Start: 42192, Stop: 42467, Start Num: 122
Candidate Starts for Didgeridoo_75:
(24, 42015), (44, 42066), (62, 42117), (Start: 75 @42132 has 5 MA's), (Start: 100 @42165 has 1 MA's), (Start: 111 @42180 has 1 MA's), (Start: 122 @42192 has 76 MA's),

Gene: Dino_62 Start: 43208, Stop: 43486, Start Num: 113
Candidate Starts for Dino_62:
(Start: 113 @43208 has 16 MA's), (Start: 124 @43226 has 63 MA's), (130, 43244), (144, 43298),

Gene: DinoDaryn_64 Start: 39227, Stop: 39523, Start Num: 101
Candidate Starts for DinoDaryn_64:
(69, 39185), (Start: 101 @39227 has 8 MA's), (165, 39416), (180, 39485),

Gene: Dirtdigger_65 Start: 41774, Stop: 42070, Start Num: 99
Candidate Starts for Dirtdigger_65:
(Start: 70 @41744 has 6 MA's), (Start: 99 @41774 has 11 MA's), (140, 41870), (173, 42002), (185, 42044), (186, 42050),

Gene: DirtyBubble_69 Start: 41228, Stop: 41503, Start Num: 122
Candidate Starts for DirtyBubble_69:
(Start: 122 @41228 has 76 MA's), (170, 41414), (171, 41417),

Gene: Dismas_67 Start: 41256, Stop: 41531, Start Num: 122
Candidate Starts for Dismas_67:
(62, 41181), (Start: 122 @41256 has 76 MA's), (170, 41442), (176, 41472),

Gene: DocMcStuffins_1 Start: 42, Stop: 374, Start Num: 104
Candidate Starts for DocMcStuffins_1:
(Start: 78 @9 has 2 MA's), (Start: 85 @15 has 5 MA's), (Start: 104 @42 has 57 MA's), (135, 120), (157, 213), (163, 237), (172, 285), (185, 339), (189, 354),

Gene: Donatella_69 Start: 42522, Stop: 42818, Start Num: 99
Candidate Starts for Donatella_69:
(Start: 99 @42522 has 11 MA's), (157, 42678), (185, 42792),

Gene: Doobus_68 Start: 40732, Stop: 41007, Start Num: 122
Candidate Starts for Doobus_68:
(Start: 122 @40732 has 76 MA's),

Gene: Doomslug_1 Start: 40, Stop: 372, Start Num: 104
Candidate Starts for Doomslug_1:
(76, 7), (Start: 81 @13 has 1 MA's), (Start: 104 @40 has 57 MA's), (133, 109), (135, 118), (157, 211),
(172, 283), (182, 328), (185, 337), (189, 352),

Gene: DrRobert_59 Start: 42246, Stop: 42524, Start Num: 113
Candidate Starts for DrRobert_59:
(Start: 113 @42246 has 16 MA's), (Start: 124 @42264 has 63 MA's), (130, 42282), (171, 42441), (185,
42498), (186, 42504),

Gene: DreamTeam_61 Start: 42752, Stop: 43012, Start Num: 124
Candidate Starts for DreamTeam_61:
(Start: 113 @42734 has 16 MA's), (Start: 124 @42752 has 63 MA's), (130, 42770), (145, 42827), (166,
42908),

Gene: E1_55 Start: 34794, Stop: 35114, Start Num: 94
Candidate Starts for E1_55:
(3, 34521), (5, 34560), (6, 34569), (9, 34584), (22, 34650), (23, 34653), (34, 34677), (39, 34695), (51,
34725), (Start: 94 @34794 has 3 MA's), (117, 34824), (139, 34899), (188, 35097),

Gene: Ecliptus_1 Start: 40, Stop: 372, Start Num: 104
Candidate Starts for Ecliptus_1:
(Start: 81 @13 has 1 MA's), (Start: 104 @40 has 57 MA's), (142, 145), (155, 199), (156, 208), (157,
211), (159, 220), (163, 235), (168, 265), (178, 319), (189, 352),

Gene: Eden_72 Start: 40483, Stop: 40758, Start Num: 122
Candidate Starts for Eden_72:
(12, 40246), (16, 40276), (17, 40279), (20, 40294), (Start: 30 @40324 has 1 MA's), (32, 40327), (54,
40381), (76, 40423), (Start: 122 @40483 has 76 MA's), (170, 40669), (171, 40672), (187, 40741),

Gene: Eesa_65 Start: 39439, Stop: 39717, Start Num: 119
Candidate Starts for Eesa_65:
(Start: 119 @39439 has 16 MA's), (190, 39709),

Gene: Elesar_62 Start: 42571, Stop: 42897, Start Num: 70
Candidate Starts for Elesar_62:
(Start: 70 @42571 has 6 MA's), (Start: 99 @42601 has 11 MA's), (157, 42757), (185, 42871),

Gene: Elva_73 Start: 41675, Stop: 41950, Start Num: 122
Candidate Starts for Elva_73:
(Start: 122 @41675 has 76 MA's), (170, 41861), (171, 41864),

Gene: Emmaloid_1 Start: 41, Stop: 373, Start Num: 104
Candidate Starts for Emmaloid_1:

(79, 11), (Start: 104 @41 has 57 MA's), (135, 119), (157, 212), (163, 236), (172, 284), (185, 338), (189, 353),

Gene: EstebanJulior_60 Start: 43409, Stop: 43669, Start Num: 124
Candidate Starts for EstebanJulior_60:
(Start: 124 @43409 has 63 MA's), (130, 43427), (145, 43484),

Gene: Eula_69 Start: 40916, Stop: 41191, Start Num: 122
Candidate Starts for Eula_69:
(Start: 122 @40916 has 76 MA's), (170, 41102),

Gene: Eunoia_62 Start: 44077, Stop: 44337, Start Num: 124
Candidate Starts for Eunoia_62:
(Start: 75 @44008 has 5 MA's), (91, 44029), (Start: 124 @44077 has 63 MA's), (131, 44098), (144, 44149),

Gene: EvenBluerMoon_51 Start: 35879, Stop: 36160, Start Num: 116
Candidate Starts for EvenBluerMoon_51:
(Start: 71 @35822 has 1 MA's), (Start: 116 @35879 has 4 MA's),

Gene: Faiyaz_132 Start: 75303, Stop: 75626, Start Num: 85
Candidate Starts for Faiyaz_132:
(Start: 85 @75303 has 5 MA's), (148, 75453), (169, 75534), (174, 75558), (176, 75570),

Gene: Finalfrontier_69 Start: 41583, Stop: 41858, Start Num: 122
Candidate Starts for Finalfrontier_69:
(Start: 122 @41583 has 76 MA's), (170, 41769),

Gene: Fingolfin_70 Start: 38104, Stop: 38391, Start Num: 105
Candidate Starts for Fingolfin_70:
(Start: 105 @38104 has 9 MA's), (160, 38257), (173, 38320),

Gene: FlameThrower_65 Start: 40846, Stop: 41121, Start Num: 122
Candidate Starts for FlameThrower_65:
(62, 40768), (Start: 122 @40846 has 76 MA's), (170, 41032), (187, 41104),

Gene: Flathead_1 Start: 40, Stop: 372, Start Num: 104
Candidate Starts for Flathead_1:
(76, 7), (Start: 81 @13 has 1 MA's), (Start: 104 @40 has 57 MA's), (133, 109), (135, 118), (157, 211), (172, 283), (182, 328), (185, 337), (189, 352),

Gene: Fluke_62 Start: 43458, Stop: 43736, Start Num: 113
Candidate Starts for Fluke_62:
(Start: 113 @43458 has 16 MA's), (Start: 124 @43476 has 63 MA's), (130, 43494), (144, 43548),

Gene: Frankie_1 Start: 40, Stop: 372, Start Num: 104
Candidate Starts for Frankie_1:
(76, 7), (Start: 81 @13 has 1 MA's), (Start: 104 @40 has 57 MA's), (133, 109), (135, 118), (157, 211), (172, 283), (182, 328), (185, 337), (189, 352),

Gene: Franklin22_74 Start: 40216, Stop: 40491, Start Num: 122
Candidate Starts for Franklin22_74:
(76, 40156), (Start: 122 @40216 has 76 MA's), (170, 40402), (187, 40474),

Gene: Frickyeah_1 Start: 39, Stop: 371, Start Num: 104
Candidate Starts for Frickyeah_1:
(Start: 78 @9 has 2 MA's), (83, 15), (93, 27), (Start: 104 @39 has 57 MA's), (141, 141), (142, 144), (163, 234), (168, 264), (172, 282), (189, 351),

Gene: Frizzle_58 Start: 45018, Stop: 45314, Start Num: 108
Candidate Starts for Frizzle_58:
(Start: 108 @45018 has 1 MA's), (Start: 136 @45090 has 1 MA's), (145, 45123), (190, 45306),

Gene: Gack_71 Start: 40197, Stop: 40472, Start Num: 122
Candidate Starts for Gack_71:
(Start: 122 @40197 has 76 MA's), (170, 40383), (176, 40413),

Gene: Galaxy_65 Start: 37453, Stop: 37731, Start Num: 119
Candidate Starts for Galaxy_65:
(36, 37303), (44, 37327), (57, 37360), (Start: 119 @37453 has 16 MA's), (173, 37660),

Gene: Getalong_1 Start: 39, Stop: 371, Start Num: 104
Candidate Starts for Getalong_1:
(Start: 78 @9 has 2 MA's), (83, 15), (93, 27), (Start: 104 @39 has 57 MA's), (141, 141), (142, 144), (163, 234), (168, 264), (172, 282), (189, 351),

Gene: Ghobes_59 Start: 45003, Stop: 45227, Start Num: 136
Candidate Starts for Ghobes_59:
(Start: 108 @44931 has 1 MA's), (Start: 136 @45003 has 1 MA's), (145, 45036), (190, 45219),

Gene: Girafales_1 Start: 41, Stop: 373, Start Num: 104
Candidate Starts for Girafales_1:
(79, 11), (Start: 104 @41 has 57 MA's), (129, 86), (133, 110), (135, 119), (155, 200), (163, 236), (172, 284), (182, 329), (185, 338), (189, 353),

Gene: Gisselle_61 Start: 42752, Stop: 43012, Start Num: 124
Candidate Starts for Gisselle_61:
(Start: 113 @42734 has 16 MA's), (Start: 124 @42752 has 63 MA's), (130, 42770), (145, 42827), (166, 42908),

Gene: Glenn_64 Start: 44035, Stop: 44313, Start Num: 113
Candidate Starts for Glenn_64:
(Start: 113 @44035 has 16 MA's), (Start: 124 @44053 has 63 MA's), (130, 44071), (144, 44125),

Gene: Glotell_71 Start: 38150, Stop: 38437, Start Num: 105
Candidate Starts for Glotell_71:
(Start: 105 @38150 has 9 MA's), (160, 38303), (173, 38366),

Gene: GoodLuckBabe_69 Start: 41904, Stop: 42203, Start Num: 95
Candidate Starts for GoodLuckBabe_69:
(Start: 70 @41880 has 6 MA's), (Start: 95 @41904 has 1 MA's), (140, 42003), (157, 42063), (165, 42099),

Gene: Graynor_65 Start: 43171, Stop: 43443, Start Num: 115
Candidate Starts for Graynor_65:

(Start: 99 @43150 has 11 MA's), (Start: 115 @43171 has 4 MA's), (Start: 122 @43177 has 76 MA's), (Start: 124 @43183 has 63 MA's),

Gene: GreenHearts_62 Start: 43911, Stop: 44171, Start Num: 124
Candidate Starts for GreenHearts_62:
(Start: 124 @43911 has 63 MA's), (126, 43917), (140, 43968), (141, 43971), (144, 43983), (176, 44115),

Gene: Greenhouse_61 Start: 43637, Stop: 43897, Start Num: 124
Candidate Starts for Greenhouse_61:
(Start: 124 @43637 has 63 MA's), (126, 43643), (140, 43694), (141, 43697), (176, 43841),

Gene: Guinevere_71 Start: 41765, Stop: 42061, Start Num: 99
Candidate Starts for Guinevere_71:
(Start: 99 @41765 has 11 MA's), (140, 41861), (157, 41921), (165, 41957),

Gene: Gusanita_70 Start: 42391, Stop: 42687, Start Num: 99
Candidate Starts for Gusanita_70:
(Start: 99 @42391 has 11 MA's), (139, 42481), (185, 42661),

Gene: Gustav_68 Start: 43674, Stop: 44000, Start Num: 70
Candidate Starts for Gustav_68:
(56, 43644), (Start: 70 @43674 has 6 MA's), (137, 43788), (157, 43857), (162, 43875), (166, 43896), (168, 43905), (180, 43962),

Gene: Halloweekend_62 Start: 41095, Stop: 41391, Start Num: 99
Candidate Starts for Halloweekend_62:
(Start: 99 @41095 has 11 MA's), (139, 41185), (157, 41251), (173, 41323), (185, 41365),

Gene: HamCheese_69 Start: 38089, Stop: 38376, Start Num: 105
Candidate Starts for HamCheese_69:
(Start: 105 @38089 has 9 MA's), (160, 38242), (173, 38305),

Gene: HeadNerd_62 Start: 42632, Stop: 42892, Start Num: 124
Candidate Starts for HeadNerd_62:
(Start: 113 @42614 has 16 MA's), (Start: 124 @42632 has 63 MA's), (130, 42650), (145, 42707), (171, 42809), (180, 42857),

Gene: Hegedechwinu_1 Start: 40, Stop: 372, Start Num: 104
Candidate Starts for Hegedechwinu_1:
(76, 7), (Start: 81 @13 has 1 MA's), (Start: 104 @40 has 57 MA's), (133, 109), (135, 118), (157, 211), (172, 283), (182, 328), (185, 337), (189, 352),

Gene: Heinz_62 Start: 39746, Stop: 40030, Start Num: 113
Candidate Starts for Heinz_62:
(Start: 113 @39746 has 16 MA's), (132, 39800),

Gene: Herb_60 Start: 43613, Stop: 43870, Start Num: 124
Candidate Starts for Herb_60:
(121, 43604), (Start: 124 @43613 has 63 MA's), (130, 43631), (146, 43688), (166, 43766),

Gene: Hibiscus_63 Start: 39480, Stop: 39836, Start Num: 60
Candidate Starts for Hibiscus_63:

(Start: 60 @39480 has 3 MA's), (Start: 113 @39552 has 16 MA's), (132, 39606),

Gene: Hilltopfarm_134 Start: 76128, Stop: 76451, Start Num: 85
Candidate Starts for Hilltopfarm_134:
(Start: 85 @76128 has 5 MA's), (148, 76278), (169, 76359), (174, 76383), (176, 76395),

Gene: Holliday_1 Start: 39, Stop: 371, Start Num: 104
Candidate Starts for Holliday_1:
(Start: 78 @9 has 2 MA's), (83, 15), (Start: 104 @39 has 57 MA's), (135, 117), (141, 141), (163, 234), (172, 282), (178, 318), (189, 351),

Gene: Horus_1 Start: 39, Stop: 371, Start Num: 104
Candidate Starts for Horus_1:
(Start: 78 @9 has 2 MA's), (83, 15), (93, 27), (Start: 104 @39 has 57 MA's), (135, 117), (141, 141), (163, 234), (168, 264), (172, 282), (189, 351),

Gene: Huckleberry_62 Start: 42636, Stop: 42896, Start Num: 124
Candidate Starts for Huckleberry_62:
(Start: 113 @42618 has 16 MA's), (Start: 124 @42636 has 63 MA's), (130, 42654), (145, 42711), (171, 42813), (180, 42861),

Gene: Huffy_64 Start: 39227, Stop: 39523, Start Num: 101
Candidate Starts for Huffy_64:
(69, 39185), (Start: 101 @39227 has 8 MA's), (165, 39416), (180, 39485),

Gene: HunterDalle_60 Start: 42928, Stop: 43257, Start Num: 75
Candidate Starts for HunterDalle_60:
(Start: 75 @42928 has 5 MA's), (91, 42949), (Start: 124 @42997 has 63 MA's), (130, 43015), (131, 43018), (144, 43069),

Gene: Huntingdon_61 Start: 43533, Stop: 43811, Start Num: 111
Candidate Starts for Huntingdon_61:
(Start: 111 @43533 has 1 MA's), (Start: 124 @43551 has 63 MA's), (140, 43608), (141, 43611), (144, 43623), (176, 43755),

Gene: Icarian_72 Start: 41856, Stop: 42131, Start Num: 122
Candidate Starts for Icarian_72:
(Start: 122 @41856 has 76 MA's), (165, 42021), (170, 42042), (171, 42045),

Gene: Ichiang_65 Start: 41204, Stop: 41500, Start Num: 99
Candidate Starts for Ichiang_65:
(Start: 99 @41204 has 11 MA's), (157, 41360), (173, 41432), (185, 41474),

Gene: Immaculata_62 Start: 43324, Stop: 43584, Start Num: 124
Candidate Starts for Immaculata_62:
(Start: 113 @43306 has 16 MA's), (Start: 124 @43324 has 63 MA's), (130, 43342), (144, 43396),

Gene: IndyLu_71 Start: 41495, Stop: 41770, Start Num: 122
Candidate Starts for IndyLu_71:
(24, 41318), (44, 41369), (62, 41420), (Start: 75 @41435 has 5 MA's), (Start: 96 @41462 has 1 MA's), (Start: 100 @41468 has 1 MA's), (Start: 111 @41483 has 1 MA's), (Start: 122 @41495 has 76 MA's),

Gene: IsHungry_64 Start: 40246, Stop: 40572, Start Num: 70

Candidate Starts for IsHungry_64:
(40, 40180), (Start: 70 @40246 has 6 MA's), (Start: 99 @40276 has 11 MA's), (140, 40372), (157, 40432), (185, 40546), (186, 40552),

Gene: Jabb_71 Start: 41251, Stop: 41526, Start Num: 122
Candidate Starts for Jabb_71:
(Start: 122 @41251 has 76 MA's),

Gene: Jabbawokkie_2 Start: 561, Stop: 893, Start Num: 104
Candidate Starts for Jabbawokkie_2:
(76, 528), (Start: 104 @561 has 57 MA's), (163, 756), (168, 786), (172, 804), (182, 849), (189, 873),

Gene: Jamun_63 Start: 38467, Stop: 38745, Start Num: 119
Candidate Starts for Jamun_63:
(28, 38326), (77, 38413), (Start: 104 @38449 has 57 MA's), (Start: 109 @38455 has 1 MA's), (Start: 119 @38467 has 16 MA's),

Gene: JanetJ_52 Start: 36634, Stop: 36915, Start Num: 116
Candidate Starts for JanetJ_52:
(Start: 116 @36634 has 4 MA's),

Gene: Jflix2_101 Start: 58160, Stop: 58510, Start Num: 100
Candidate Starts for Jflix2_101:
(4, 57923), (92, 58148), (Start: 100 @58160 has 1 MA's),

Gene: Joann_63 Start: 43843, Stop: 44103, Start Num: 124
Candidate Starts for Joann_63:
(Start: 124 @43843 has 63 MA's), (140, 43900), (141, 43903), (176, 44047),

Gene: Job42_1 Start: 41, Stop: 373, Start Num: 104
Candidate Starts for Job42_1:
(79, 11), (Start: 104 @41 has 57 MA's), (135, 119), (157, 212), (172, 284), (182, 329), (185, 338), (189, 353),

Gene: Johnathan_70 Start: 40508, Stop: 40783, Start Num: 122
Candidate Starts for Johnathan_70:
(Start: 122 @40508 has 76 MA's),

Gene: Jojo24_63 Start: 40163, Stop: 40516, Start Num: 60
Candidate Starts for Jojo24_63:
(Start: 60 @40163 has 3 MA's), (Start: 113 @40235 has 16 MA's), (132, 40289),

Gene: Jovita_68 Start: 40684, Stop: 40959, Start Num: 122
Candidate Starts for Jovita_68:
(Start: 122 @40684 has 76 MA's), (170, 40870),

Gene: Juice456_1 Start: 41, Stop: 373, Start Num: 104
Candidate Starts for Juice456_1:
(79, 11), (Start: 104 @41 has 57 MA's), (135, 119), (157, 212), (172, 284), (182, 329), (185, 338), (189, 353),

Gene: Julie_67 Start: 41903, Stop: 42199, Start Num: 99
Candidate Starts for Julie_67:

(Start: 70 @41873 has 6 MA's), (Start: 99 @41903 has 11 MA's), (140, 41999), (157, 42059), (185, 42173), (186, 42179),

Gene: Jumboset_62 Start: 43444, Stop: 43704, Start Num: 124
Candidate Starts for Jumboset_62:
(Start: 113 @43426 has 16 MA's), (Start: 124 @43444 has 63 MA's), (130, 43462), (141, 43504), (144, 43516),

Gene: Juno112_69 Start: 38104, Stop: 38391, Start Num: 105
Candidate Starts for Juno112_69:
(Start: 105 @38104 has 9 MA's), (160, 38257), (173, 38320),

Gene: KHumphrey_70 Start: 37978, Stop: 38265, Start Num: 105
Candidate Starts for KHumphrey_70:
(Start: 105 @37978 has 9 MA's), (160, 38131), (173, 38194),

Gene: Kalizoi_62 Start: 43182, Stop: 43442, Start Num: 124
Candidate Starts for Kalizoi_62:
(Start: 113 @43164 has 16 MA's), (Start: 124 @43182 has 63 MA's), (130, 43200), (144, 43254),

Gene: Kamaru_1 Start: 39, Stop: 371, Start Num: 104
Candidate Starts for Kamaru_1:
(Start: 78 @9 has 2 MA's), (83, 15), (Start: 104 @39 has 57 MA's), (135, 117), (141, 141), (163, 234), (172, 282), (178, 318), (189, 351),

Gene: Kate33_73 Start: 41226, Stop: 41501, Start Num: 122
Candidate Starts for Kate33_73:
(44, 41100), (62, 41151), (Start: 75 @41166 has 5 MA's), (Start: 100 @41199 has 1 MA's), (Start: 111 @41214 has 1 MA's), (Start: 122 @41226 has 76 MA's),

Gene: Katzastrophic_67 Start: 41352, Stop: 41627, Start Num: 122
Candidate Starts for Katzastrophic_67:
(27, 41187), (Start: 30 @41196 has 1 MA's), (32, 41199), (51, 41247), (62, 41277), (Start: 75 @41292 has 5 MA's), (Start: 100 @41325 has 1 MA's), (Start: 122 @41352 has 76 MA's), (170, 41538), (187, 41610),

Gene: KendraB23_76 Start: 39417, Stop: 39695, Start Num: 119
Candidate Starts for KendraB23_76:
(74, 39363), (Start: 119 @39417 has 16 MA's), (190, 39687),

Gene: Kenna_1 Start: 39, Stop: 371, Start Num: 104
Candidate Starts for Kenna_1:
(Start: 78 @9 has 2 MA's), (83, 15), (93, 27), (Start: 104 @39 has 57 MA's), (135, 117), (141, 141), (142, 144), (163, 234), (168, 264), (172, 282), (189, 351),

Gene: Kenzers_69 Start: 40798, Stop: 41073, Start Num: 122
Candidate Starts for Kenzers_69:
(Start: 122 @40798 has 76 MA's), (170, 40984),

Gene: Kepler_75 Start: 38025, Stop: 38375, Start Num: 53
Candidate Starts for Kepler_75:
(Start: 53 @38025 has 8 MA's), (Start: 111 @38088 has 1 MA's),

Gene: Khuang_70 Start: 39192, Stop: 39488, Start Num: 107
Candidate Starts for Khuang_70:
(Start: 107 @39192 has 8 MA's), (125, 39222), (162, 39360),

Gene: Kieran_65 Start: 41080, Stop: 41355, Start Num: 122
Candidate Starts for Kieran_65:
(62, 41005), (Start: 122 @41080 has 76 MA's), (170, 41266), (176, 41296),

Gene: Kihatsu_69 Start: 42860, Stop: 43183, Start Num: 70
Candidate Starts for Kihatsu_69:
(Start: 70 @42860 has 6 MA's), (Start: 95 @42884 has 1 MA's), (140, 42983), (157, 43043), (165, 43079),

Gene: Kimberlium_1 Start: 41, Stop: 373, Start Num: 104
Candidate Starts for Kimberlium_1:
(79, 11), (Start: 104 @41 has 57 MA's), (135, 119), (157, 212), (172, 284), (182, 329), (185, 338), (189, 353),

Gene: KingBob_60 Start: 43614, Stop: 43871, Start Num: 124
Candidate Starts for KingBob_60:
(121, 43605), (Start: 124 @43614 has 63 MA's), (130, 43632), (146, 43689), (166, 43767),

Gene: Kittykat_65 Start: 43266, Stop: 43526, Start Num: 124
Candidate Starts for Kittykat_65:
(Start: 113 @43248 has 16 MA's), (Start: 124 @43266 has 63 MA's), (130, 43284), (145, 43341), (166, 43422), (171, 43443),

Gene: Korra_62 Start: 43371, Stop: 43631, Start Num: 124
Candidate Starts for Korra_62:
(Start: 113 @43353 has 16 MA's), (Start: 124 @43371 has 63 MA's), (130, 43389), (144, 43443),

Gene: Kudefre_128 Start: 69247, Stop: 69579, Start Num: 107
Candidate Starts for Kudefre_128:
(Start: 107 @69247 has 8 MA's), (152, 69385), (154, 69397), (173, 69487),

Gene: Kuleana_76 Start: 38455, Stop: 38775, Start Num: 88
Candidate Starts for Kuleana_76:
(Start: 41 @38371 has 1 MA's), (Start: 88 @38455 has 1 MA's), (Start: 111 @38488 has 1 MA's),

Gene: Lahqtemish_69 Start: 41710, Stop: 41985, Start Num: 122
Candidate Starts for Lahqtemish_69:
(50, 41602), (62, 41635), (Start: 75 @41650 has 5 MA's), (Start: 96 @41677 has 1 MA's), (Start: 100 @41683 has 1 MA's), (Start: 111 @41698 has 1 MA's), (Start: 122 @41710 has 76 MA's),

Gene: Lakshmi_61 Start: 43678, Stop: 43938, Start Num: 124
Candidate Starts for Lakshmi_61:
(Start: 124 @43678 has 63 MA's), (126, 43684), (140, 43735), (141, 43738), (144, 43750), (176, 43882),

Gene: Laphuphu24k_68 Start: 38089, Stop: 38376, Start Num: 105
Candidate Starts for Laphuphu24k_68:
(Start: 105 @38089 has 9 MA's), (160, 38242), (173, 38305),

Gene: Lasagna_59 Start: 42266, Stop: 42526, Start Num: 124
Candidate Starts for Lasagna_59:
(Start: 113 @42248 has 16 MA's), (Start: 124 @42266 has 63 MA's), (130, 42284), (171, 42443), (185, 42500), (186, 42506),

Gene: Lennox_61 Start: 42751, Stop: 43011, Start Num: 124
Candidate Starts for Lennox_61:
(Start: 113 @42733 has 16 MA's), (Start: 124 @42751 has 63 MA's), (130, 42769), (145, 42826), (171, 42928), (185, 42985), (186, 42991),

Gene: Lenoxika_66 Start: 41766, Stop: 42062, Start Num: 99
Candidate Starts for Lenoxika_66:
(Start: 99 @41766 has 11 MA's), (140, 41862), (157, 41922), (165, 41958),

Gene: Leona_68 Start: 38237, Stop: 38518, Start Num: 110
Candidate Starts for Leona_68:
(Start: 110 @38237 has 1 MA's), (160, 38384), (173, 38447),

Gene: Leroy_1 Start: 39, Stop: 371, Start Num: 104
Candidate Starts for Leroy_1:
(Start: 78 @9 has 2 MA's), (83, 15), (93, 27), (Start: 104 @39 has 57 MA's), (141, 141), (142, 144), (163, 234), (168, 264), (172, 282), (189, 351),

Gene: LilJank_122 Start: 71012, Stop: 71341, Start Num: 107
Candidate Starts for LilJank_122:
(Start: 107 @71012 has 8 MA's), (148, 71132), (154, 71162), (158, 71180), (159, 71186), (161, 71195), (180, 71288), (184, 71297),

Gene: LilStuart_60 Start: 42614, Stop: 42874, Start Num: 124
Candidate Starts for LilStuart_60:
(Start: 113 @42596 has 16 MA's), (Start: 124 @42614 has 63 MA's), (130, 42632), (171, 42791), (185, 42848), (186, 42854),

Gene: Lilo27_70 Start: 41100, Stop: 41375, Start Num: 122
Candidate Starts for Lilo27_70:
(Start: 122 @41100 has 76 MA's), (170, 41286),

Gene: LimaBean_68 Start: 40790, Stop: 41065, Start Num: 122
Candidate Starts for LimaBean_68:
(63, 40715), (77, 40730), (98, 40760), (Start: 102 @40763 has 3 MA's), (Start: 122 @40790 has 76 MA's),

Gene: LitninMcQueen_1 Start: 39, Stop: 371, Start Num: 104
Candidate Starts for LitninMcQueen_1:
(Start: 78 @9 has 2 MA's), (83, 15), (Start: 104 @39 has 57 MA's), (135, 117), (141, 141), (163, 234), (172, 282), (178, 318), (189, 351),

Gene: Litotes_62 Start: 43156, Stop: 43416, Start Num: 124
Candidate Starts for Litotes_62:
(Start: 99 @43123 has 11 MA's), (Start: 115 @43144 has 4 MA's), (Start: 122 @43150 has 76 MA's), (Start: 124 @43156 has 63 MA's),

Gene: LittleShirley_1 Start: 41, Stop: 373, Start Num: 104

Candidate Starts for LittleShirley_1:
(79, 11), (Start: 104 @41 has 57 MA's), (135, 119), (157, 212), (163, 236), (172, 284), (185, 338), (189, 353),

Gene: LittleTokyo_73 Start: 38604, Stop: 38882, Start Num: 119
Candidate Starts for LittleTokyo_73:
(Start: 119 @38604 has 16 MA's), (170, 38796),

Gene: LordVader_1 Start: 42, Stop: 374, Start Num: 104
Candidate Starts for LordVader_1:
(Start: 78 @9 has 2 MA's), (Start: 85 @15 has 5 MA's), (Start: 104 @42 has 57 MA's), (133, 111), (135, 120), (157, 213), (172, 285), (182, 330), (185, 339), (189, 354),

Gene: Loviatar_67 Start: 42044, Stop: 42379, Start Num: 75
Candidate Starts for Loviatar_67:
(62, 42029), (Start: 75 @42044 has 5 MA's), (Start: 100 @42077 has 1 MA's), (Start: 122 @42104 has 76 MA's), (131, 42137), (171, 42293),

Gene: Lucy_60 Start: 42591, Stop: 42869, Start Num: 113
Candidate Starts for Lucy_60:
(Start: 113 @42591 has 16 MA's), (Start: 124 @42609 has 63 MA's), (130, 42627), (171, 42786), (185, 42843), (186, 42849),

Gene: Lunar_73 Start: 37996, Stop: 38376, Start Num: 41
Candidate Starts for Lunar_73:
(Start: 41 @37996 has 1 MA's), (Start: 111 @38089 has 1 MA's),

Gene: Lutum_1 Start: 39, Stop: 371, Start Num: 104
Candidate Starts for Lutum_1:
(Start: 78 @9 has 2 MA's), (83, 15), (93, 27), (Start: 104 @39 has 57 MA's), (135, 117), (141, 141), (142, 144), (163, 234), (168, 264), (172, 282), (189, 351),

Gene: Lynlen_71 Start: 40984, Stop: 41259, Start Num: 122
Candidate Starts for Lynlen_71:
(Start: 111 @40972 has 1 MA's), (Start: 122 @40984 has 76 MA's),

Gene: Mahdia_60 Start: 41790, Stop: 42113, Start Num: 70
Candidate Starts for Mahdia_60:
(Start: 70 @41790 has 6 MA's), (Start: 78 @41796 has 2 MA's), (157, 41970), (162, 41988), (180, 42075),

Gene: Makoto_60 Start: 42571, Stop: 42831, Start Num: 124
Candidate Starts for Makoto_60:
(Start: 113 @42553 has 16 MA's), (Start: 124 @42571 has 63 MA's), (130, 42589), (145, 42646), (171, 42748), (185, 42805), (186, 42811),

Gene: Malisha_1 Start: 39, Stop: 371, Start Num: 104
Candidate Starts for Malisha_1:
(Start: 78 @9 has 2 MA's), (83, 15), (Start: 104 @39 has 57 MA's), (135, 117), (156, 207), (163, 234), (168, 264), (172, 282), (178, 318), (189, 351),

Gene: MamaPearl_60 Start: 43409, Stop: 43669, Start Num: 124
Candidate Starts for MamaPearl_60:

(Start: 124 @43409 has 63 MA's), (130, 43427), (145, 43484),

Gene: Maria1952_59 Start: 43613, Stop: 43870, Start Num: 124
Candidate Starts for Maria1952_59:
(121, 43604), (Start: 124 @43613 has 63 MA's), (130, 43631), (146, 43688), (166, 43766),

Gene: MeganNoll_63 Start: 43904, Stop: 44182, Start Num: 113
Candidate Starts for MeganNoll_63:
(Start: 113 @43904 has 16 MA's), (Start: 124 @43922 has 63 MA's), (130, 43940), (144, 43994),

Gene: Melons_73 Start: 37979, Stop: 38383, Start Num: 30
Candidate Starts for Melons_73:
(Start: 30 @37979 has 1 MA's), (Start: 111 @38096 has 1 MA's),

Gene: MillySue_69 Start: 41794, Stop: 42090, Start Num: 99
Candidate Starts for MillySue_69:
(Start: 99 @41794 has 11 MA's), (140, 41890), (185, 42064),

Gene: Milomuff_72 Start: 41357, Stop: 41632, Start Num: 122
Candidate Starts for Milomuff_72:
(Start: 122 @41357 has 76 MA's),

Gene: Min1_34 Start: 16506, Stop: 16799, Start Num: 117
Candidate Starts for Min1_34:
(67, 16446), (Start: 81 @16461 has 1 MA's), (84, 16464), (Start: 94 @16479 has 3 MA's), (Start: 105 @16491 has 9 MA's), (117, 16506), (149, 16617), (165, 16686), (188, 16782),

Gene: Misaeng_61 Start: 43477, Stop: 43737, Start Num: 124
Candidate Starts for Misaeng_61:
(Start: 124 @43477 has 63 MA's), (140, 43534), (141, 43537), (144, 43549), (176, 43681),

Gene: Misha28_1 Start: 42, Stop: 374, Start Num: 104
Candidate Starts for Misha28_1:
(Start: 78 @9 has 2 MA's), (Start: 85 @15 has 5 MA's), (Start: 104 @42 has 57 MA's), (135, 120), (157, 213), (163, 237), (172, 285), (185, 339), (189, 354),

Gene: Moki_62 Start: 42825, Stop: 43085, Start Num: 124
Candidate Starts for Moki_62:
(Start: 113 @42807 has 16 MA's), (Start: 124 @42825 has 63 MA's), (130, 42843), (145, 42900), (171, 43002), (180, 43050),

Gene: Morrissey_63 Start: 43651, Stop: 44007, Start Num: 61
Candidate Starts for Morrissey_63:
(Start: 61 @43651 has 1 MA's), (Start: 70 @43666 has 6 MA's), (Start: 80 @43678 has 1 MA's), (98, 43702), (157, 43864), (180, 43969),

Gene: Mova_1 Start: 41, Stop: 373, Start Num: 104
Candidate Starts for Mova_1:
(79, 11), (Start: 104 @41 has 57 MA's), (135, 119), (157, 212), (163, 236), (172, 284), (185, 338), (189, 353),

Gene: Mozy_1 Start: 40, Stop: 372, Start Num: 104
Candidate Starts for Mozy_1:

(76, 7), (Start: 81 @13 has 1 MA's), (Start: 104 @40 has 57 MA's), (129, 85), (133, 109), (135, 118), (155, 199), (163, 235), (172, 283), (182, 328), (185, 337), (189, 352),

Gene: MrBoss_63 Start: 42722, Stop: 42994, Start Num: 115
Candidate Starts for MrBoss_63:
(Start: 99 @42701 has 11 MA's), (Start: 115 @42722 has 4 MA's), (Start: 122 @42728 has 76 MA's), (Start: 124 @42734 has 63 MA's),

Gene: MrGloopy_62 Start: 43347, Stop: 43625, Start Num: 113
Candidate Starts for MrGloopy_62:
(Start: 113 @43347 has 16 MA's), (Start: 124 @43365 has 63 MA's), (130, 43383), (144, 43437),

Gene: MsUbiquitous_71 Start: 41251, Stop: 41526, Start Num: 122
Candidate Starts for MsUbiquitous_71:
(Start: 122 @41251 has 76 MA's),

Gene: MulchExplorer_1 Start: 41, Stop: 373, Start Num: 104
Candidate Starts for MulchExplorer_1:
(79, 11), (Start: 104 @41 has 57 MA's), (135, 119), (157, 212), (172, 284), (182, 329), (185, 338), (189, 353),

Gene: Nancia_61 Start: 42902, Stop: 43162, Start Num: 124
Candidate Starts for Nancia_61:
(Start: 113 @42884 has 16 MA's), (Start: 124 @42902 has 63 MA's), (130, 42920), (171, 43079), (185, 43136), (186, 43142),

Gene: Nandita_68 Start: 42024, Stop: 42323, Start Num: 97
Candidate Starts for Nandita_68:
(40, 41931), (72, 42000), (Start: 97 @42024 has 2 MA's), (157, 42183), (160, 42192), (185, 42297),

Gene: Neville_125 Start: 70232, Stop: 70561, Start Num: 107
Candidate Starts for Neville_125:
(Start: 107 @70232 has 8 MA's), (148, 70352), (154, 70382), (159, 70406), (161, 70415), (175, 70484), (180, 70508), (184, 70517), (191, 70556),

Gene: Nicky22_69 Start: 41321, Stop: 41596, Start Num: 122
Candidate Starts for Nicky22_69:
(Start: 122 @41321 has 76 MA's), (170, 41507),

Gene: Nubia_61 Start: 43705, Stop: 43965, Start Num: 124
Candidate Starts for Nubia_61:
(Start: 111 @43687 has 1 MA's), (Start: 124 @43705 has 63 MA's), (140, 43762), (141, 43765), (176, 43909),

Gene: ODay_1 Start: 39, Stop: 371, Start Num: 104
Candidate Starts for ODay_1:
(Start: 78 @9 has 2 MA's), (83, 15), (Start: 104 @39 has 57 MA's), (135, 117), (141, 141), (163, 234), (172, 282), (178, 318), (189, 351),

Gene: OMalley_60 Start: 43400, Stop: 43660, Start Num: 124
Candidate Starts for OMalley_60:
(Start: 75 @43331 has 5 MA's), (91, 43352), (Start: 124 @43400 has 63 MA's), (131, 43421), (144, 43472),

Gene: Octobien14_124 Start: 67781, Stop: 68113, Start Num: 107
Candidate Starts for Octobien14_124:
(Start: 78 @67739 has 2 MA's), (Start: 107 @67781 has 8 MA's), (152, 67919), (154, 67931), (168, 67997),

Gene: Ogopogo_2 Start: 299, Stop: 631, Start Num: 104
Candidate Starts for Ogopogo_2:
(Start: 104 @299 has 57 MA's), (135, 377), (163, 494), (168, 524), (172, 542), (182, 587), (189, 611),

Gene: Olliecat_66 Start: 38762, Stop: 39037, Start Num: 122
Candidate Starts for Olliecat_66:
(2, 38429), (21, 38579), (42, 38630), (Start: 122 @38762 has 76 MA's), (170, 38948), (183, 39005),

Gene: Oppalora_68 Start: 38103, Stop: 38390, Start Num: 105
Candidate Starts for Oppalora_68:
(Start: 105 @38103 has 9 MA's), (160, 38256), (173, 38319),

Gene: Orcanus_65 Start: 39051, Stop: 39329, Start Num: 119
Candidate Starts for Orcanus_65:
(Start: 119 @39051 has 16 MA's),

Gene: OtsoOtso_72 Start: 37650, Stop: 38003, Start Num: 53
Candidate Starts for OtsoOtso_72:
(Start: 53 @37650 has 8 MA's), (Start: 111 @37716 has 1 MA's),

Gene: OurGirlNessie_59 Start: 42225, Stop: 42485, Start Num: 124
Candidate Starts for OurGirlNessie_59:
(Start: 113 @42207 has 16 MA's), (Start: 124 @42225 has 63 MA's), (130, 42243), (145, 42300), (171, 42402), (185, 42459), (186, 42465),

Gene: Oxynfrius_62 Start: 43823, Stop: 44083, Start Num: 124
Candidate Starts for Oxynfrius_62:
(Start: 124 @43823 has 63 MA's), (140, 43880), (141, 43883), (176, 44027),

Gene: PartyCup_62 Start: 43576, Stop: 43848, Start Num: 115
Candidate Starts for PartyCup_62:
(Start: 99 @43555 has 11 MA's), (Start: 115 @43576 has 4 MA's), (Start: 122 @43582 has 76 MA's), (Start: 124 @43588 has 63 MA's),

Gene: PastaFagioli_71 Start: 41718, Stop: 42053, Start Num: 75
Candidate Starts for PastaFagioli_71:
(50, 41670), (62, 41703), (Start: 75 @41718 has 5 MA's), (Start: 96 @41745 has 1 MA's), (Start: 100 @41751 has 1 MA's), (Start: 111 @41766 has 1 MA's), (Start: 122 @41778 has 76 MA's),

Gene: Pecas_70 Start: 41217, Stop: 41492, Start Num: 122
Candidate Starts for Pecas_70:
(Start: 122 @41217 has 76 MA's), (170, 41403),

Gene: Periwinkle_1 Start: 39, Stop: 371, Start Num: 104
Candidate Starts for Periwinkle_1:
(Start: 78 @9 has 2 MA's), (83, 15), (93, 27), (Start: 104 @39 has 57 MA's), (135, 117), (141, 141), (142, 144), (163, 234), (168, 264), (172, 282), (189, 351),

Gene: Phabuloso_1 Start: 39, Stop: 371, Start Num: 104
Candidate Starts for Phabuloso_1:
(Start: 78 @9 has 2 MA's), (83, 15), (Start: 104 @39 has 57 MA's), (135, 117), (141, 141), (163, 234),
(172, 282), (178, 318), (189, 351),

Gene: PhigPhack_73 Start: 41119, Stop: 41394, Start Num: 122
Candidate Starts for PhigPhack_73:
(Start: 122 @41119 has 76 MA's), (170, 41305),

Gene: PhirstandPhine_78 Start: 37839, Stop: 38192, Start Num: 53
Candidate Starts for PhirstandPhine_78:
(Start: 53 @37839 has 8 MA's), (Start: 111 @37905 has 1 MA's),

Gene: Phisb_72 Start: 41092, Stop: 41367, Start Num: 122
Candidate Starts for Phisb_72:
(Start: 122 @41092 has 76 MA's),

Gene: Phistory_1 Start: 39, Stop: 371, Start Num: 104
Candidate Starts for Phistory_1:
(Start: 78 @9 has 2 MA's), (83, 15), (Start: 104 @39 has 57 MA's), (141, 141), (142, 144), (163, 234),
(168, 264), (172, 282), (178, 318), (189, 351),

Gene: PhluffyCoco_68 Start: 38203, Stop: 38490, Start Num: 105
Candidate Starts for PhluffyCoco_68:
(Start: 105 @38203 has 9 MA's), (160, 38356), (173, 38419),

Gene: Pineda_74 Start: 38058, Stop: 38345, Start Num: 111
Candidate Starts for Pineda_74:
(Start: 53 @37995 has 8 MA's), (Start: 111 @38058 has 1 MA's),

Gene: PinkFriday_61 Start: 42959, Stop: 43216, Start Num: 124
Candidate Starts for PinkFriday_61:
(121, 42950), (Start: 124 @42959 has 63 MA's), (146, 43034), (147, 43037), (166, 43112), (186,
43196),

Gene: Piper2020_1 Start: 42, Stop: 374, Start Num: 104
Candidate Starts for Piper2020_1:
(Start: 78 @9 has 2 MA's), (Start: 85 @15 has 5 MA's), (Start: 104 @42 has 57 MA's), (135, 120), (157,
213), (163, 237), (172, 285), (185, 339), (189, 354),

Gene: PitaDog_61 Start: 42609, Stop: 42887, Start Num: 113
Candidate Starts for PitaDog_61:
(Start: 113 @42609 has 16 MA's), (Start: 124 @42627 has 63 MA's), (130, 42645), (145, 42702), (171,
42804), (185, 42861), (186, 42867),

Gene: Plumbus_1 Start: 41, Stop: 373, Start Num: 104
Candidate Starts for Plumbus_1:
(79, 11), (Start: 104 @41 has 57 MA's), (135, 119), (157, 212), (172, 284), (182, 329), (185, 338), (189,
353),

Gene: Polka_71 Start: 37650, Stop: 38003, Start Num: 53
Candidate Starts for Polka_71:

(Start: 53 @37650 has 8 MA's), (Start: 111 @37716 has 1 MA's),

Gene: PondAmelia_83 Start: 40965, Stop: 41300, Start Num: 75
Candidate Starts for PondAmelia_83:
(49, 40914), (62, 40950), (Start: 75 @40965 has 5 MA's), (Start: 100 @40998 has 1 MA's), (Start: 122 @41025 has 76 MA's), (131, 41058), (170, 41211), (171, 41214),

Gene: Popper_70 Start: 41441, Stop: 41767, Start Num: 70
Candidate Starts for Popper_70:
(40, 41375), (Start: 70 @41441 has 6 MA's), (Start: 99 @41471 has 11 MA's), (140, 41567), (157, 41627), (185, 41741), (186, 41747),

Gene: Potatoes_62 Start: 43324, Stop: 43584, Start Num: 124
Candidate Starts for Potatoes_62:
(Start: 113 @43306 has 16 MA's), (Start: 124 @43324 has 63 MA's), (130, 43342), (144, 43396),

Gene: PrairieDogTown_52 Start: 35824, Stop: 36162, Start Num: 71
Candidate Starts for PrairieDogTown_52:
(Start: 71 @35824 has 1 MA's), (Start: 116 @35881 has 4 MA's),

Gene: Preamble_64 Start: 43037, Stop: 43297, Start Num: 124
Candidate Starts for Preamble_64:
(Start: 113 @43019 has 16 MA's), (Start: 124 @43037 has 63 MA's), (130, 43055), (145, 43112), (166, 43193), (171, 43214),

Gene: Pterodactyl_61 Start: 42938, Stop: 43198, Start Num: 124
Candidate Starts for Pterodactyl_61:
(Start: 113 @42920 has 16 MA's), (Start: 124 @42938 has 63 MA's), (130, 42956), (145, 43013), (171, 43115), (185, 43172), (186, 43178),

Gene: Pumancara_61 Start: 42494, Stop: 42751, Start Num: 124
Candidate Starts for Pumancara_61:
(121, 42485), (Start: 124 @42494 has 63 MA's), (146, 42569), (147, 42572), (166, 42647), (186, 42731),

Gene: Puppers_62 Start: 41790, Stop: 42113, Start Num: 78
Candidate Starts for Puppers_62:
(36, 41697), (43, 41718), (47, 41733), (50, 41739), (65, 41775), (Start: 78 @41790 has 2 MA's), (162, 41988),

Gene: QMacho_72 Start: 41222, Stop: 41497, Start Num: 122
Candidate Starts for QMacho_72:
(Start: 122 @41222 has 76 MA's),

Gene: Quenya_69 Start: 41516, Stop: 41791, Start Num: 122
Candidate Starts for Quenya_69:
(Start: 122 @41516 has 76 MA's), (131, 41549), (170, 41702), (187, 41774),

Gene: Quico_1 Start: 41, Stop: 373, Start Num: 104
Candidate Starts for Quico_1:
(79, 11), (Start: 104 @41 has 57 MA's), (129, 86), (133, 110), (135, 119), (155, 200), (163, 236), (172, 284), (182, 329), (185, 338), (189, 353),

Gene: QuinnAvery_70 Start: 42826, Stop: 43122, Start Num: 99
Candidate Starts for QuinnAvery_70:
(44, 42730), (Start: 99 @42826 has 11 MA's), (140, 42922), (157, 42982), (160, 42991),

Gene: RAP15_63 Start: 43905, Stop: 44183, Start Num: 113
Candidate Starts for RAP15_63:
(Start: 113 @43905 has 16 MA's), (Start: 124 @43923 has 63 MA's), (130, 43941), (144, 43995),

Gene: Rabbitrun_127 Start: 71852, Stop: 72181, Start Num: 107
Candidate Starts for Rabbitrun_127:
(7, 71615), (8, 71618), (26, 71696), (44, 71741), (45, 71744), (57, 71774), (58, 71777), (73, 71804), (Start: 99 @71840 has 11 MA's), (Start: 107 @71852 has 8 MA's), (140, 71942), (154, 72002), (158, 72020), (159, 72026), (160, 72029), (175, 72104), (191, 72176),

Gene: Rattail_71 Start: 38499, Stop: 38786, Start Num: 105
Candidate Starts for Rattail_71:
(Start: 105 @38499 has 9 MA's), (160, 38652), (173, 38715),

Gene: RcigaStruga_62 Start: 43551, Stop: 43811, Start Num: 124
Candidate Starts for RcigaStruga_62:
(Start: 111 @43533 has 1 MA's), (Start: 124 @43551 has 63 MA's), (140, 43608), (141, 43611), (144, 43623), (176, 43755),

Gene: RedFox_71 Start: 38363, Stop: 38650, Start Num: 105
Candidate Starts for RedFox_71:
(Start: 105 @38363 has 9 MA's), (160, 38516), (173, 38579),

Gene: RegnumDei_114 Start: 60267, Stop: 60536, Start Num: 120
Candidate Starts for RegnumDei_114:
(120, 60267), (160, 60408), (163, 60420), (181, 60507),

Gene: Renna12_72 Start: 38798, Stop: 39091, Start Num: 102
Candidate Starts for Renna12_72:
(83, 38777), (Start: 102 @38798 has 3 MA's), (160, 38957), (173, 39020),

Gene: Reyja_65 Start: 41077, Stop: 41433, Start Num: 60
Candidate Starts for Reyja_65:
(Start: 60 @41077 has 3 MA's), (Start: 113 @41149 has 16 MA's), (132, 41203),

Gene: Rialto_1 Start: 41, Stop: 373, Start Num: 104
Candidate Starts for Rialto_1:
(79, 11), (Start: 104 @41 has 57 MA's), (135, 119), (157, 212), (163, 236), (172, 284), (185, 338), (189, 353),

Gene: Riovina_60 Start: 43400, Stop: 43660, Start Num: 124
Candidate Starts for Riovina_60:
(Start: 75 @43331 has 5 MA's), (91, 43352), (Start: 124 @43400 has 63 MA's), (131, 43421), (144, 43472),

Gene: Riverdale_61 Start: 43055, Stop: 43315, Start Num: 124
Candidate Starts for Riverdale_61:
(Start: 113 @43037 has 16 MA's), (Start: 124 @43055 has 63 MA's), (130, 43073), (144, 43127),

Gene: Rollins_70 Start: 39578, Stop: 39853, Start Num: 122
Candidate Starts for Rollins_70:
(18, 39380), (21, 39395), (32, 39422), (45, 39455), (62, 39503), (Start: 75 @39518 has 5 MA's), (Start: 100 @39551 has 1 MA's), (Start: 122 @39578 has 76 MA's),

Gene: Rona_66 Start: 41247, Stop: 41522, Start Num: 122
Candidate Starts for Rona_66:
(62, 41172), (Start: 122 @41247 has 76 MA's), (170, 41433), (176, 41463),

Gene: Rozby_60 Start: 42859, Stop: 43119, Start Num: 124
Candidate Starts for Rozby_60:
(Start: 113 @42841 has 16 MA's), (Start: 124 @42859 has 63 MA's), (130, 42877), (144, 42931),

Gene: Ruchi_64 Start: 38215, Stop: 38493, Start Num: 119
Candidate Starts for Ruchi_64:
(46, 38110), (62, 38140), (Start: 109 @38203 has 1 MA's), (Start: 119 @38215 has 16 MA's),

Gene: Ryan_70 Start: 42477, Stop: 42773, Start Num: 99
Candidate Starts for Ryan_70:
(Start: 70 @42438 has 6 MA's), (Start: 99 @42477 has 11 MA's), (157, 42633), (185, 42747),

Gene: SFuller_100 Start: 58710, Stop: 59060, Start Num: 100
Candidate Starts for SFuller_100:
(1, 58224), (92, 58698), (Start: 100 @58710 has 1 MA's), (155, 58860),

Gene: SanaSana_70 Start: 41542, Stop: 41817, Start Num: 122
Candidate Starts for SanaSana_70:
(10, 41296), (13, 41311), (19, 41350), (Start: 60 @41458 has 3 MA's), (62, 41467), (Start: 75 @41482 has 5 MA's), (Start: 100 @41515 has 1 MA's), (Start: 122 @41542 has 76 MA's), (131, 41575), (170, 41728), (171, 41731),

Gene: SansAfet_72 Start: 41068, Stop: 41343, Start Num: 122
Candidate Starts for SansAfet_72:
(Start: 122 @41068 has 76 MA's), (170, 41254),

Gene: Santhid_59 Start: 38581, Stop: 38865, Start Num: 113
Candidate Starts for Santhid_59:
(59, 38500), (86, 38542), (89, 38545), (Start: 113 @38581 has 16 MA's), (132, 38635),

Gene: Sapo_61 Start: 45211, Stop: 45513, Start Num: 106
Candidate Starts for Sapo_61:
(Start: 106 @45211 has 1 MA's), (141, 45304), (151, 45337), (167, 45412), (190, 45505),

Gene: SarBear_72 Start: 41148, Stop: 41423, Start Num: 122
Candidate Starts for SarBear_72:
(Start: 122 @41148 has 76 MA's),

Gene: Savage2526_61 Start: 43082, Stop: 43342, Start Num: 124
Candidate Starts for Savage2526_61:
(Start: 113 @43064 has 16 MA's), (Start: 124 @43082 has 63 MA's), (130, 43100), (144, 43154),

Gene: Schism_71 Start: 42712, Stop: 43011, Start Num: 95
Candidate Starts for Schism_71:

(Start: 70 @42688 has 6 MA's), (Start: 95 @42712 has 1 MA's), (134, 42790), (140, 42811), (157, 42871), (165, 42907), (177, 42967),

Gene: Schmidt_58 Start: 36837, Stop: 37133, Start Num: 101
Candidate Starts for Schmidt_58:
(Start: 101 @36837 has 8 MA's), (162, 37008), (185, 37107),

Gene: Scuttle_61 Start: 43375, Stop: 43653, Start Num: 113
Candidate Starts for Scuttle_61:
(Start: 113 @43375 has 16 MA's), (Start: 124 @43393 has 63 MA's), (130, 43411), (144, 43465),

Gene: Sephiroth_123 Start: 69017, Stop: 69349, Start Num: 107
Candidate Starts for Sephiroth_123:
(Start: 107 @69017 has 8 MA's), (152, 69155), (154, 69167), (173, 69257),

Gene: Sergei_60 Start: 43614, Stop: 43871, Start Num: 124
Candidate Starts for Sergei_60:
(121, 43605), (Start: 124 @43614 has 63 MA's), (130, 43632), (146, 43689), (166, 43767),

Gene: Shagrat_110 Start: 58151, Stop: 58423, Start Num: 118
Candidate Starts for Shagrat_110:
(Start: 118 @58151 has 1 MA's), (148, 58256), (160, 58295), (179, 58391), (181, 58394),

Gene: Sharkboy_68 Start: 41611, Stop: 41886, Start Num: 122
Candidate Starts for Sharkboy_68:
(62, 41536), (Start: 122 @41611 has 76 MA's), (131, 41644), (170, 41797), (176, 41827),

Gene: Shayna_75 Start: 41004, Stop: 41279, Start Num: 122
Candidate Starts for Shayna_75:
(Start: 122 @41004 has 76 MA's), (170, 41190),

Gene: SilverChicken_1 Start: 38, Stop: 370, Start Num: 104
Candidate Starts for SilverChicken_1:
(79, 11), (Start: 104 @38 has 57 MA's), (135, 116), (142, 143), (163, 233), (168, 263), (172, 281), (182, 326), (189, 350),

Gene: SirBeanington_70 Start: 41335, Stop: 41610, Start Num: 122
Candidate Starts for SirBeanington_70:
(Start: 122 @41335 has 76 MA's), (170, 41521),

Gene: Skylord_70 Start: 39495, Stop: 39770, Start Num: 122
Candidate Starts for Skylord_70:
(18, 39297), (21, 39312), (32, 39339), (45, 39372), (62, 39420), (Start: 75 @39435 has 5 MA's), (Start: 100 @39468 has 1 MA's), (Start: 122 @39495 has 76 MA's),

Gene: Slay_70 Start: 41458, Stop: 41733, Start Num: 122
Candidate Starts for Slay_70:
(Start: 122 @41458 has 76 MA's), (170, 41644),

Gene: Slim_1 Start: 41, Stop: 373, Start Num: 104
Candidate Starts for Slim_1:
(79, 11), (Start: 104 @41 has 57 MA's), (135, 119), (157, 212), (163, 236), (172, 284), (185, 338), (189, 353),

Gene: Softsoap_71 Start: 41189, Stop: 41464, Start Num: 122
Candidate Starts for Softsoap_71:
(Start: 122 @41189 has 76 MA's),

Gene: Solea_73 Start: 41356, Stop: 41631, Start Num: 122
Candidate Starts for Solea_73:
(Start: 122 @41356 has 76 MA's),

Gene: Soul22_1 Start: 38, Stop: 370, Start Num: 104
Candidate Starts for Soul22_1:
(79, 11), (Start: 104 @38 has 57 MA's), (135, 116), (142, 143), (163, 233), (168, 263), (172, 281), (182, 326), (189, 350),

Gene: Splinter_64 Start: 40315, Stop: 40611, Start Num: 101
Candidate Starts for Splinter_64:
(Start: 101 @40315 has 8 MA's), (165, 40504), (180, 40573),

Gene: Spooky_1 Start: 39, Stop: 371, Start Num: 104
Candidate Starts for Spooky_1:
(Start: 78 @9 has 2 MA's), (83, 15), (Start: 104 @39 has 57 MA's), (163, 234), (165, 249), (172, 282), (178, 318), (189, 351),

Gene: Squiddly_2 Start: 730, Stop: 1062, Start Num: 104
Candidate Starts for Squiddly_2:
(33, 601), (37, 613), (76, 697), (Start: 104 @730 has 57 MA's), (157, 901), (161, 919), (172, 973), (178, 1009), (189, 1042),

Gene: Squircle_66 Start: 38761, Stop: 39036, Start Num: 122
Candidate Starts for Squircle_66:
(2, 38428), (21, 38578), (42, 38629), (Start: 122 @38761 has 76 MA's), (170, 38947), (183, 39004),

Gene: Squirty_1 Start: 40, Stop: 372, Start Num: 104
Candidate Starts for Squirty_1:
(76, 7), (Start: 81 @13 has 1 MA's), (Start: 104 @40 has 57 MA's), (133, 109), (135, 118), (157, 211), (168, 265), (172, 283), (182, 328), (185, 337), (189, 352),

Gene: Starcevich_1 Start: 41, Stop: 373, Start Num: 104
Candidate Starts for Starcevich_1:
(79, 11), (Start: 104 @41 has 57 MA's), (135, 119), (157, 212), (163, 236), (172, 284), (185, 338), (189, 353),

Gene: Stoor_69 Start: 41350, Stop: 41625, Start Num: 122
Candidate Starts for Stoor_69:
(Start: 122 @41350 has 76 MA's), (170, 41536), (171, 41539),

Gene: Stromboli_68 Start: 41130, Stop: 41405, Start Num: 122
Candidate Starts for Stromboli_68:
(10, 40884), (13, 40899), (19, 40938), (Start: 60 @41046 has 3 MA's), (62, 41055), (Start: 75 @41070 has 5 MA's), (Start: 100 @41103 has 1 MA's), (Start: 122 @41130 has 76 MA's), (170, 41316), (171, 41319),

Gene: StuartMinion_61 Start: 34829, Stop: 35122, Start Num: 102

Candidate Starts for StuartMinion_61:
(66, 34787), (Start: 102 @34829 has 3 MA's), (160, 34988), (185, 35096),

Gene: SunnyD_75 Start: 41007, Stop: 41282, Start Num: 122
Candidate Starts for SunnyD_75:
(Start: 122 @41007 has 76 MA's), (170, 41193),

Gene: Supakev_60 Start: 43425, Stop: 43685, Start Num: 124
Candidate Starts for Supakev_60:
(Start: 75 @43356 has 5 MA's), (91, 43377), (Start: 124 @43425 has 63 MA's), (130, 43443), (131, 43446), (144, 43497),

Gene: Suppi_62 Start: 43562, Stop: 43834, Start Num: 115
Candidate Starts for Suppi_62:
(Start: 99 @43541 has 11 MA's), (Start: 115 @43562 has 4 MA's), (Start: 122 @43568 has 76 MA's), (Start: 124 @43574 has 63 MA's),

Gene: Swervy_70 Start: 41047, Stop: 41322, Start Num: 122
Candidate Starts for Swervy_70:
(Start: 122 @41047 has 76 MA's), (170, 41233),

Gene: Syleon_128 Start: 69768, Stop: 70100, Start Num: 107
Candidate Starts for Syleon_128:
(Start: 107 @69768 has 8 MA's), (152, 69906), (154, 69918), (173, 70008),

Gene: TZGordon_65 Start: 39203, Stop: 39499, Start Num: 101
Candidate Starts for TZGordon_65:
(Start: 101 @39203 has 8 MA's), (165, 39392), (180, 39461),

Gene: Tarzan_63 Start: 39834, Stop: 40118, Start Num: 113
Candidate Starts for Tarzan_63:
(Start: 60 @39759 has 3 MA's), (86, 39795), (89, 39798), (Start: 113 @39834 has 16 MA's), (132, 39888),

Gene: TattModd_61 Start: 43209, Stop: 43469, Start Num: 124
Candidate Starts for TattModd_61:
(Start: 113 @43191 has 16 MA's), (Start: 124 @43209 has 63 MA's), (130, 43227), (144, 43281),

Gene: TaylorSipht_65 Start: 38681, Stop: 38959, Start Num: 119
Candidate Starts for TaylorSipht_65:
(Start: 119 @38681 has 16 MA's),

Gene: Tchotchke_1 Start: 41, Stop: 373, Start Num: 104
Candidate Starts for Tchotchke_1:
(79, 11), (Start: 104 @41 has 57 MA's), (129, 86), (133, 110), (135, 119), (155, 200), (163, 236), (172, 284), (182, 329), (185, 338), (189, 353),

Gene: Teagster_75 Start: 41426, Stop: 41701, Start Num: 122
Candidate Starts for Teagster_75:
(Start: 122 @41426 has 76 MA's), (170, 41612),

Gene: Temper16_60 Start: 43614, Stop: 43871, Start Num: 124
Candidate Starts for Temper16_60:

(121, 43605), (Start: 124 @43614 has 63 MA's), (130, 43632), (146, 43689), (166, 43767),

Gene: TinaLin_63 Start: 39046, Stop: 39342, Start Num: 101
Candidate Starts for TinaLin_63:
(69, 39004), (Start: 101 @39046 has 8 MA's), (128, 39088), (150, 39172), (180, 39304),

Gene: Toad24_68 Start: 39472, Stop: 39750, Start Num: 119
Candidate Starts for Toad24_68:
(74, 39418), (Start: 119 @39472 has 16 MA's), (190, 39742),

Gene: ToastyOats_69 Start: 42136, Stop: 42432, Start Num: 99
Candidate Starts for ToastyOats_69:
(Start: 99 @42136 has 11 MA's), (140, 42232), (157, 42292), (165, 42328),

Gene: Toodles_68 Start: 42560, Stop: 42856, Start Num: 99
Candidate Starts for Toodles_68:
(40, 42464), (Start: 70 @42530 has 6 MA's), (Start: 99 @42560 has 11 MA's), (140, 42656), (173, 42788), (185, 42830), (186, 42836),

Gene: TootsiePop_1 Start: 42, Stop: 374, Start Num: 104
Candidate Starts for TootsiePop_1:
(Start: 78 @9 has 2 MA's), (Start: 85 @15 has 5 MA's), (Start: 104 @42 has 57 MA's), (135, 120), (157, 213), (163, 237), (172, 285), (185, 339), (189, 354),

Gene: Totinger_1 Start: 41, Stop: 373, Start Num: 104
Candidate Starts for Totinger_1:
(79, 11), (Start: 104 @41 has 57 MA's), (135, 119), (157, 212), (163, 236), (172, 284), (185, 338), (189, 353),

Gene: Trax_126 Start: 71052, Stop: 71381, Start Num: 107
Candidate Starts for Trax_126:
(Start: 107 @71052 has 8 MA's), (148, 71172), (154, 71202), (158, 71220), (159, 71226), (161, 71235), (180, 71328), (184, 71337),

Gene: Trine_65 Start: 43058, Stop: 43372, Start Num: 80
Candidate Starts for Trine_65:
(Start: 80 @43058 has 1 MA's), (148, 43199),

Gene: TukTuk_70 Start: 41237, Stop: 41512, Start Num: 122
Candidate Starts for TukTuk_70:
(Start: 122 @41237 has 76 MA's), (170, 41423),

Gene: Typha_129 Start: 74982, Stop: 75305, Start Num: 85
Candidate Starts for Typha_129:
(Start: 85 @74982 has 5 MA's), (148, 75132), (169, 75213), (174, 75237), (176, 75249),

Gene: Upyo_69 Start: 44979, Stop: 45296, Start Num: 81
Candidate Starts for Upyo_69:
(Start: 81 @44979 has 1 MA's), (135, 45075), (157, 45153), (162, 45171),

Gene: Urla_62 Start: 43603, Stop: 43863, Start Num: 124
Candidate Starts for Urla_62:
(Start: 124 @43603 has 63 MA's), (130, 43621), (145, 43678),

Gene: Vallejo_62 Start: 43253, Stop: 43531, Start Num: 113
Candidate Starts for Vallejo_62:
(Start: 113 @43253 has 16 MA's), (Start: 124 @43271 has 63 MA's), (130, 43289), (144, 43343),

Gene: Vendetta_64 Start: 40315, Stop: 40611, Start Num: 101
Candidate Starts for Vendetta_64:
(Start: 101 @40315 has 8 MA's), (165, 40504), (180, 40573),

Gene: Vitas_71 Start: 39646, Stop: 39921, Start Num: 122
Candidate Starts for Vitas_71:
(29, 39487), (68, 39580), (Start: 122 @39646 has 76 MA's), (131, 39679),

Gene: Vulpecula_64 Start: 37410, Stop: 37688, Start Num: 119
Candidate Starts for Vulpecula_64:
(Start: 109 @37398 has 1 MA's), (Start: 119 @37410 has 16 MA's),

Gene: Vulture_60 Start: 42928, Stop: 43257, Start Num: 75
Candidate Starts for Vulture_60:
(Start: 75 @42928 has 5 MA's), (91, 42949), (Start: 124 @42997 has 63 MA's), (130, 43015), (131, 43018), (144, 43069),

Gene: WalkingDead_71 Start: 42012, Stop: 42287, Start Num: 122
Candidate Starts for WalkingDead_71:
(Start: 122 @42012 has 76 MA's), (170, 42198), (171, 42201),

Gene: Wawa_62 Start: 43514, Stop: 43774, Start Num: 124
Candidate Starts for Wawa_62:
(Start: 113 @43496 has 16 MA's), (Start: 124 @43514 has 63 MA's), (130, 43532), (144, 43586),

Gene: Wayne_64 Start: 44019, Stop: 44291, Start Num: 115
Candidate Starts for Wayne_64:
(Start: 99 @43998 has 11 MA's), (Start: 115 @44019 has 4 MA's), (Start: 122 @44025 has 76 MA's), (Start: 124 @44031 has 63 MA's),

Gene: Whitney_1 Start: 39, Stop: 371, Start Num: 104
Candidate Starts for Whitney_1:
(Start: 78 @9 has 2 MA's), (83, 15), (93, 27), (Start: 104 @39 has 57 MA's), (135, 117), (141, 141), (142, 144), (163, 234), (168, 264), (172, 282), (178, 318), (189, 351),

Gene: Widow_62 Start: 42336, Stop: 42659, Start Num: 78
Candidate Starts for Widow_62:
(36, 42243), (43, 42264), (47, 42279), (50, 42285), (Start: 61 @42312 has 1 MA's), (65, 42321), (Start: 78 @42336 has 2 MA's), (162, 42534),

Gene: WileyE_66 Start: 38402, Stop: 38680, Start Num: 119
Candidate Starts for WileyE_66:
(Start: 109 @38390 has 1 MA's), (Start: 119 @38402 has 16 MA's),

Gene: WonderBoy_59 Start: 42399, Stop: 42659, Start Num: 124
Candidate Starts for WonderBoy_59:
(Start: 113 @42381 has 16 MA's), (Start: 124 @42399 has 63 MA's), (130, 42417), (145, 42474), (171, 42576), (185, 42633), (186, 42639),

Gene: Yonex_69 Start: 42477, Stop: 42773, Start Num: 99
Candidate Starts for Yonex_69:
(Start: 70 @42438 has 6 MA's), (Start: 99 @42477 has 11 MA's), (157, 42633), (185, 42747),

Gene: Yoshi_1 Start: 38, Stop: 370, Start Num: 104
Candidate Starts for Yoshi_1:
(79, 11), (Start: 104 @38 has 57 MA's), (135, 116), (142, 143), (163, 233), (168, 263), (172, 281), (182, 326), (189, 350),

Gene: Zaheer_69 Start: 42523, Stop: 42819, Start Num: 99
Candidate Starts for Zaheer_69:
(Start: 99 @42523 has 11 MA's), (140, 42619), (157, 42679), (165, 42715),

Gene: Zapner_2 Start: 562, Stop: 894, Start Num: 104
Candidate Starts for Zapner_2:
(76, 529), (Start: 104 @562 has 57 MA's), (163, 757), (168, 787), (172, 805), (182, 850), (189, 874),

Gene: Zhuangyuan_77 Start: 39902, Stop: 40180, Start Num: 119
Candidate Starts for Zhuangyuan_77:
(Start: 119 @39902 has 16 MA's),

Gene: Zixiang_67 Start: 38816, Stop: 39094, Start Num: 119
Candidate Starts for Zixiang_67:
(Start: 119 @38816 has 16 MA's), (190, 39086),

Gene: Zorro_62 Start: 43226, Stop: 43486, Start Num: 124
Candidate Starts for Zorro_62:
(Start: 113 @43208 has 16 MA's), (Start: 124 @43226 has 63 MA's), (130, 43244), (144, 43298),