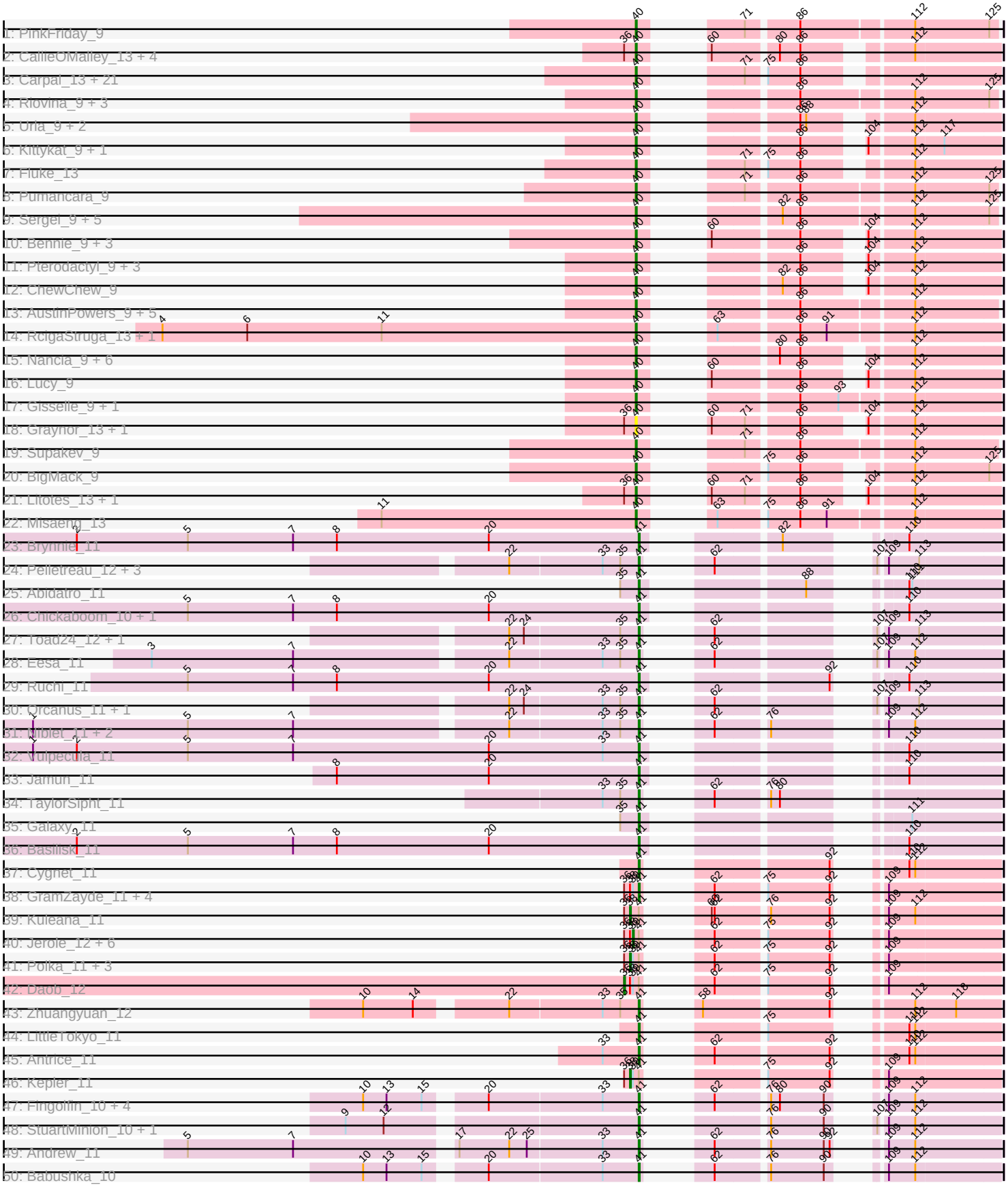
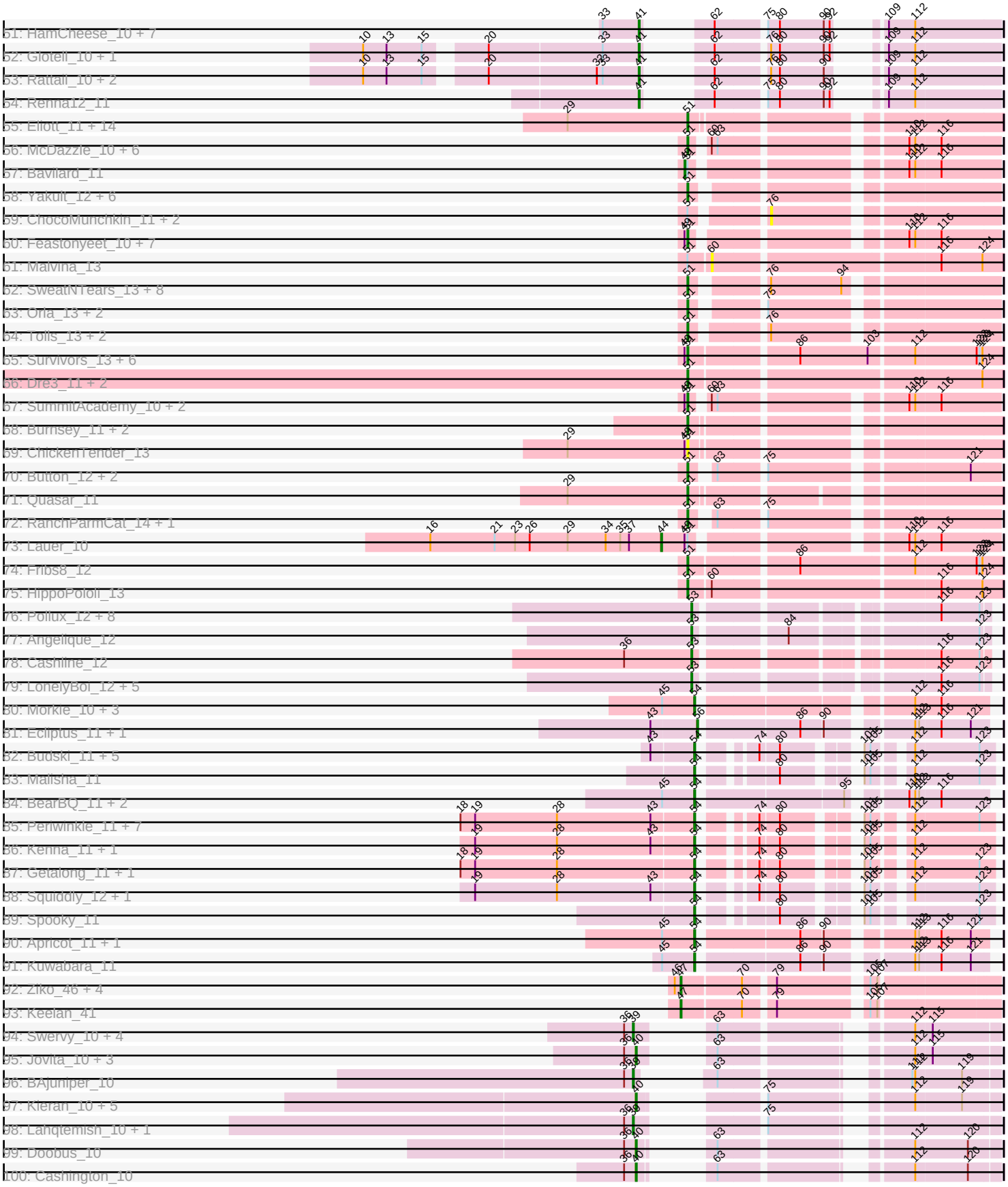
Pham 347107


1: PinkFriday_9
2: CallieOMalley_13 + 4
3: Carpal_13 + 21
4: Riovina_9 + 3
5: Orla_9 + 2
6: Kittykat_9 + 1
7: Fluke_13
8: Pumancara_9
9: Sergei_9 + 5
10: Bennie_9 + 3
11: Pterodactyl_9 + 3
12: ChewChew_9
13: AustinPowers_9 + 5
14: RcigaStruga_13 + 1
15: Nancia_9 + 6
16: Lucy_9
17: Gisselle_9 + 1
18: Graynor_13 + 1
19: Supakev_9
20: BigMack_9
21: Litotes_13 + 1
22: Misaeng_13
23: Brynnie_11
24: Pelletreau_12 + 3
25: Abidatro_11
26: Chickaboom_10 + 1
27: Toad24_12 + 1
28: Eesa_11
29: Ruchi_11
30: Orcanus_11 + 1
31: Jiblet_11 + 2
32: Vulpecula_11
33: Jamun_11
34: TaylorSpht_11
35: Galaxy_11
36: Basilisk_11
37: Cygnet_11
38: GramZayde_11 + 4
39: Kuleana_11
40: Jerole_12 + 6
41: Polka_11 + 3
42: Daob_12
43: Zhuangyuan_12
44: LittleTokyo_11
45: Anrice_11
46: Kepler_11
47: Fingolfin_10 + 4
48: StuartMinion_10 + 1
49: Andrew_11
50: Babushka_10

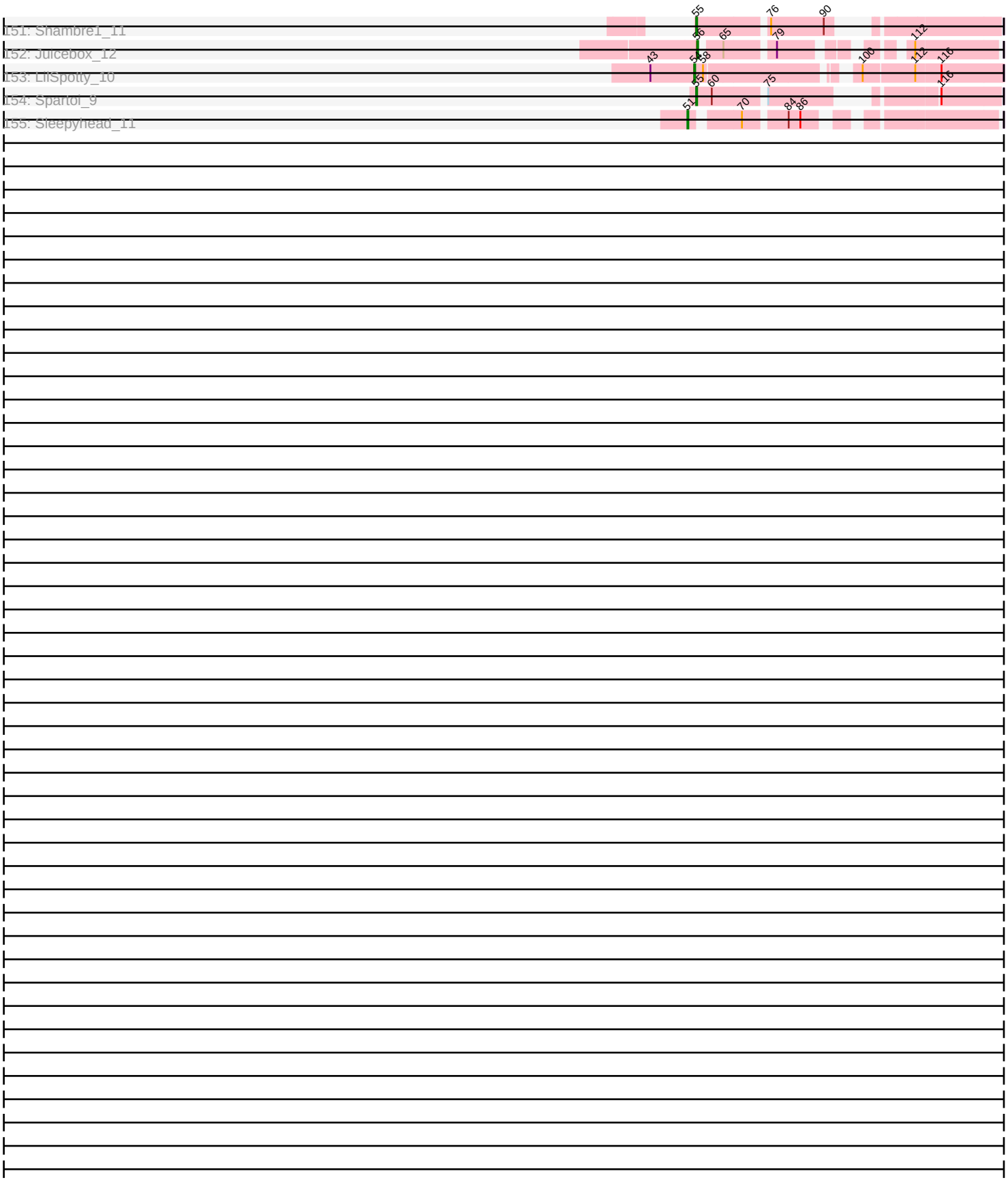
Pham 347107


51: HamCheese_10 + 7
52: Glotell_10 + 1
53: Rattail_10 + 2
54: Renna12_11
55: Elliott_11 + 14
56: McDazzle_10 + 6
57: Bavilard_11
58: Yakult_12 + 6
59: ChocoMunchkin_11 + 2
60: Feastonyeet_10 + 7
61: Malvina_13
62: SweatNTears_13 + 8
63: Orla_13 + 2
64: Tolls_13 + 2
65: Survivors_13 + 6
66: Dre3_11 + 2
67: SummitAcademy_10 + 2
68: Burnsey_11 + 2
69: ChickenTender_13
70: Button_12 + 2
71: Quasar_11
72: RanchParmCat_14 + 1
73: Lauer_10
74: Fribs8_12
75: HippoPolo11_13
76: Pollux_12 + 8
77: Angelique_12
78: Cashline_12
79: LonelyBoi_12 + 5
80: Morkie_10 + 3
81: Ecliptus_11 + 1
82: Budski_11 + 5
83: Malisha_11
84: BearBQ_11 + 2
85: Periwinkle_11 + 7
86: Kenna_11 + 1
87: Getalong_11 + 1
88: Squiddly_12 + 1
89: Spooky_11
90: Apricot_11 + 1
91: Kuwabara_11
92: Ziko_46 + 4
93: Keelan_41
94: Swervy_10 + 4
95: Jovita_10 + 3
96: BAjuniper_10
97: Kieran_10 + 5
98: Lanqtemish_10 + 1
99: Doobus_10
100: Cashington_10

Pham 347107


I01: Coltrane_9 + 7
I02: Phisb_10
I03: TukTuk_10 + 3
I04: BelmontSKP_11 + 1
I05: Solea_11 + 1
I06: Kenzers_10 + 2
I07: Eden_9
I08: CanFranMach_10
I09: DirtyBubble_10 + 2
I10: SirBeaningTon_10
I11: Akino08_10
I12: Quenya_11
I13: BubbaBear_10
I14: Johnathan_10 + 5
I15: CroZenni_10 + 3
I16: Lilo27_10
I17: WalkingDead_10
I18: Katzastrophic_10
I19: FlameThrower_10 + 2
I20: Franklin22_9
I21: Softsoap_10
I22: PondAmelia_11 + 2
I23: LimaBean_10
I24: Arroyo_11
I25: Nicky22_11
I26: Icarian_11
I27: Loviatar_10
I28: Gack_9
I29: AvGardian_10
I30: Demsculpinboyz_12 + 8
I31: Gibbzilla_11
I32: CallinAllBarbz_10
I33: BalleyBlu_10
I34: GrimEater_10 + 1
I35: Skyerus_10 + 2
I36: AnnabelLee_12 + 6
I37: Agamotto_14
I38: Makima_13 + 1
I39: LastNadila_15
I40: Studio_12
I41: Ezunna_11
I42: TripleC_15
I43: TMaxx_12
I44: Audell_15
I45: Stellammi_8
I46: Nebkiss_8 + 1
I47: Hilltopfarm_17 + 3
I48: Bipper_17
I49: Cracklewink_17
I50: DS6A_14

Pham 347107


151: Shambre1_11
152: Juicebox_12
153: LilSpotty_10
154: Spartol_9
155: Sleepyhead_11
55
76
90
56
65
79
112
43
54
58
100
112
118
55
60
75
118
51
70
84
86

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 347107 Report

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

Pham number 347107 has 412 members, 46 are drafts.

Phages represented in each track:
• Track 1 : PinkFriday_9
• Track 2 : CallieOMalley_13, AppleCider_13, Wayne_13, Suppi_13, Canowicakte_13
• Track 3 : Carpal_13, Dino_13, Cholula_13, Korra_13, Glenn_13, Kalizoi_13, Vallejo_13, Wawa_13, TattModd_13, BrotherBLo_13, RAP15_13, Jumboset_13, Rozby_13, MrGloopy_13, Riverdale_13, MeganNoll_13, Scuttle_13, Potatoes_13, Savage2526_13, Immaculata_13, Beethoven_13, Zorro_13
• Track 4 : Riovina_9, Eunoia_9, Aledel_9, OMalley_9
• Track 5 : Urla_9, EstebanJulior_9, MamaPearl_9
• Track 6 : Kittykat_9, Preamble_9
• Track 7 : Fluke_13
• Track 8 : Pumancara_9
• Track 9 : Sergei_9, Maria1952_9, Temper16_9, Daiboju_9, KingBob_9, Herb_9
• Track 10 : Bennie_9, Moki_9, Huckleberry_9, HeadNerd_9
• Track 11 : Pterodactyl_9, Lennox_9, PitaDog_9, Makoto_9
• Track 12 : ChewChew_9
• Track 13 : AustinPowers_9, DrRobert_9, Vulture_9, WonderBoy_9, Chridison_9, HunterDalle_9
• Track 14 : RcigaStruga_13, Huntingdon_13
• Track 15 : Nancia_9, Bodacious_9, Lasagna_9, OurGirlNessie_9, Christian_9, CristinaYang_9, LilStuart_9
• Track 16 : Lucy_9
• Track 17 : Gisselle_9, DreamTeam_9
• Track 18 : Graynor_13, MrBoss_13
• Track 19 : Supakev_9
• Track 20 : BigMack_9
• Track 21 : Litotes_13, PartyCup_13
• Track 22 : Misaeng_13
• Track 23 : Brynnie_11
• Track 24 : Pelletreau_12, Shen_12, Gravel_12, Amanises_12
• Track 25 : Abidatro_11
• Track 26 : Chickaboom_10, WileyE_10
• Track 27 : Toad24_12, KendraB23_12
• Track 28 : Eesa_11
• Track 29 : Ruchi_11
• Track 30 : Orcanus_11, Westrich_12
• Track 31 : Niblet_11, Chicken_11, Zixiang_11
• Track 32 : Vulpecula_11

• Track 33 : Jamun_11
• Track 34 : TaylorSipht_11
• Track 35 : Galaxy_11
• Track 36 : Basilisk_11
• Track 37 : Cygnet_11
• Track 38 : GramZayde_11, Bibble12_12, BadWillHunting_12, Damocles_12, OtsoOtso_11
• Track 39 : Kuleana_11
• Track 40 : Jerole_12, Colusalem_11, HannahPhantana_12, Bedetta_12, PhirstandPhine_12, Amelia_12, Lunar_12
• Track 41 : Polka_11, Coral_11, Melons_12, Cote_12
• Track 42 : Daob_12
• Track 43 : Zhuangyuan_12
• Track 44 : LittleTokyo_11
• Track 45 : Antrice_11
• Track 46 : Kepler_11
• Track 47 : Fingolfin_10, Oppalora_10, Juno112_10, Atlantica_10, AmiCi24_10
• Track 48 : StuartMinion_10, AlexMinion_10
• Track 49 : Andrew_11
• Track 50 : Babushka_10
• Track 51 : HamCheese_10, PhluffyCoco_10, RedFox_10, Amphitrite_10, DanHam62_10, Laphuphu24k_10, AdoptaAdorbs_10, Camara_10
• Track 52 : Glotell_10, KHumphrey_10
• Track 53 : Rattail_10, Azaz_10, Leona_10
• Track 54 : Renna12_11
• Track 55 : Eliott_11, Bubble_11, Nina_12, Starburst_12, RedBaron_13, Cozz_11, PsychoKiller_11, Typhonomachy_11, MunkgeeRoachy_11, RADical_12, Carsonalex_12, Sopespian_11, Socotra_12, Axym_11, RSchmailzl_12
• Track 56 : McDazzle_10, Mayweather_12, SheckWes_10, ElJefes_10, MAnor_11, CherryonLim_12, Pons_11
• Track 57 : Bavilard_11
• Track 58 : Yakult_12, Amok_10, AndPeggy_10, AikoCarson_10, Yarn_10, Emalyn_10, BillDoor_13
• Track 59 : ChocoMunchkin_11, CanesSauce_11, CaramelLatte_11
• Track 60 : Feastonyeet_10, Yucky_11, KayGee_11, Tarnish_11, BigChungus_10, Elinal_12, Balloona_10, Vine_12
• Track 61 : Malvina_13
• Track 62 : SweatNTears_13, MScarn_13, SketchMex_10, Troje_11, Blondies_12, Horseradish_12, Yummy_12, Biskit_12, Buttrmlkdreams_11
• Track 63 : Orla_13, Nodigi_13, Hexbug_13
• Track 64 : Tolls_13, SteamedHams_13, GTE2_09
• Track 65 : Survivors_13, MaVan_13, Wolfwood_13, Zareef_13, Wallaby_15, Azira_13, Nibbles_13
• Track 66 : Dre3_11, Cleo_11, Gibbous_11
• Track 67 : SummitAcademy_10, PotPie_11, CocoaPuff_10
• Track 68 : Burnsey_11, Agatha_11, GoldHunter_11
• Track 69 : ChickenTender_13
• Track 70 : Button_12, Jamzy_14, GiKK_14
• Track 71 : Quasar_11
• Track 72 : RanchParmCat_14, Margaret_14
• Track 73 : Lauer_10
• Track 74 : Fribs8_12
• Track 75 : HippoPololi_13

• Track 76 : Pollux_12, BritBrat_12, EMsquaredA_12, Lilas_12, Bradissa_12, Floral_12, EnalisNailo_12, Confidence_12, Marteena_12
• Track 77 : Angelique_12
• Track 78 : Cashline_12
• Track 79 : LonelyBoi_12, Posh_12, BeeGee_12, Wrigley_12, Jablanski_12, Pytheas_12
• Track 80 : Morkie_10, InLimbo_11, PhorbesPhlower_10, Lucky10_10
• Track 81 : Ecliptus_11, ODay_11
• Track 82 : Budski_11, Phabuloso_11, Kamaru_11, CheeseTouch_11, LitninMcQueen_11, Holliday_11
• Track 83 : Malisha_11
• Track 84 : BearBQ_11, MortyNRick_11, Birdsong_11
• Track 85 : Periwinkle_11, BotCity_11, Horus_11, BENtherdunthat_11, ShawBrad_11, Frickyeah_11, Leroy_11, Asapag_11
• Track 86 : Kenna_11, Lutum_11
• Track 87 : Getalong_11, Whitney_11
• Track 88 : Squiddly_12, Phistory_11
• Track 89 : Spooky_11
• Track 90 : Apricot_11, Crater_11
• Track 91 : Kuwabara_11
• Track 92 : Ziko_46, Guey18_48, Volt_45, Fryberger_43, Ronaldo_46
• Track 93 : Keelan_41
• Track 94 : Swervy_10, Slay_10, AylexOG_11, Finalfrontier_11, SarBear_10
• Track 95 : Jovita_10, Pecas_10, Eula_10, QMacho_11
• Track 96 : BAjuniper_10
• Track 97 : Kieran_10, Rona_10, Kamdara_10, Sharkboy_10, ChiliPepper_10, Dismas_10
• Track 98 : Lahqtemish_10, PastaFagioli_10
• Track 99 : Doobus_10
• Track 100 : Cashington_10
• Track 101 : Coltrane_9, Skylord_9, Clayda5_9, Rollins_9, Vitas_9, Brahms_9, Armstrong_9, Bernstein_9
• Track 102 : Phisb_10
• Track 103 : TukTuk_10, CupcakePrincess_10, Jabb_10, MsUbiquitous_10
• Track 104 : BelmontSKP_11, AnnaLie_11
• Track 105 : Solea_11, Milomuff_11
• Track 106 : Kenzers_10, Lynlen_10, Albedo_10
• Track 107 : Eden_9
• Track 108 : CanFranMach_10
• Track 109 : DirtyBubble_10, Stromboli_10, BabyYoda_10
• Track 110 : SirBeanington_10
• Track 111 : Akino08_10
• Track 112 : Quenya_11
• Track 113 : BubbaBear_10
• Track 114 : Johnathan_10, Bengal_10, Avocadoman_10, Albright_10, Abigail_10, Burritobowl_10
• Track 115 : CroZenni_10, SansAfet_10, DickRichards_10, PhigPhack_10
• Track 116 : Lilo27_10
• Track 117 : WalkingDead_10
• Track 118 : Katzastrophic_10
• Track 119 : FlameThrower_10, Celaena_10, Bachaco_10
• Track 120 : Franklin22_9
• Track 121 : Softsoap_10

• Track 122 : PondAmelia_11, Stoor_10, SanaSana_11
• Track 123 : LimaBean_10
• Track 124 : Arroyo_11
• Track 125 : Nicky22_11
• Track 126 : Icarian_11
• Track 127 : Loviatar_10
• Track 128 : Gack_9
• Track 129 : AvGardian_10
• Track 130 : Demsculpinboyz_12, Avani_12, Soul22_12, Che9d_12, Zapner_13, Blarby_13, Jabbawokkie_13, Yoshi_12, SilverChicken_12
• Track 131 : Gibbzilla_11
• Track 132 : CallinAllBarbz_10
• Track 133 : BaileyBlu_10
• Track 134 : GrimEater_10, Jankie_10
• Track 135 : Skyerus_10, Neroxid_10, Raya_10
• Track 136 : AnnabelLee_12, CardboardBox_12, ChamoyPickle_12, Neuvillette_12, Roberts_12, Gerri43_12, ChipsNGuac_12
• Track 137 : Agamotto_14
• Track 138 : Makima_13, Mireles_12
• Track 139 : LastNadiia_15
• Track 140 : Studio_12
• Track 141 : Ezurina_11
• Track 142 : TripleC_15
• Track 143 : TMaxx_12
• Track 144 : Audell_15
• Track 145 : Stellammi_8
• Track 146 : Nebkiss_8, Gaia_8
• Track 147 : Hilltopfarm_17, Typha_17, Faiyaz_17, AuntGwenStacy_17
• Track 148 : Bipper_17
• Track 149 : Cracklewink_17
• Track 150 : DS6A_14
• Track 151 : Shambre1_11
• Track 152 : Juicebox_12
• Track 153 : LilSpotty_10
• Track 154 : Spartoi_9
• Track 155 : Sleepyhead_11

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

The start number called the most often in the published annotations is 40, it was called in 133 of the 366 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Abigail_10, Albedo_10, Albright_10, Aledel_9, AnnaLie_11, AppleCider_13, Armstrong_9, Arroyo_11, AustinPowers_9, Avocadoman_10, Bachaco_10, Beethoven_13, BelmontSKP_11, Bengal_10, Bennie_9, Bernstein_9, BigMack_9, Bodacious_9, Brahms_9, BrotherBLo_13, BubbaBear_10, Burritobowl_10, CallieOMalley_13, Canowicakte_13, Carpal_13, Cashington_10, Celaena_10, ChewChew_9, ChiliPepper_10, Cholula_13, Chridison_9, Christian_9, Clayda5_9, Coltrane_9, CristinaYang_9, CroZenni_10, CupcakePrincess_10, Daiboju_9,

DickRichards_10, Dino_13, Dismas_10, Doobus_10, DrRobert_9, DreamTeam_9, Eden_9, EstebanJulior_9, Eula_10, Eunoia_9, FlameThrower_10, Fluke_13, Franklin22_9, Gack_9, Gisselle_9, Glenn_13, Graynor_13, HeadNerd_9, Herb_9, Huckleberry_9, HunterDalle_9, Huntingdon_13, Immaculata_13, Jabb_10, Johnathan_10, Jovita_10, Jumboset_13, Kalizoi_13, Kamdara_10, Katzastrophic_10, Kenzers_10, Kieran_10, KingBob_9, Kittykat_9, Korra_13, Lasagna_9, Lennox_9, LilStuart_9, Lilo27_10, LimaBean_10, Litotes_13, Loviatar_10, Lucy_9, Lynlen_10, Makoto_9, MamaPearl_9, Maria1952_9, MeganNoll_13, Milomuff_11, Misaeng_13, Moki_9, MrBoss_13, MrGloopy_13, MsUbiquitous_10, Nancia_9, Nicky22_11, OMalley_9, OurGirlNessie_9, PartyCup_13, Pecas_10, PhigPhack_10, Phisb_10, PinkFriday_9, PitaDog_9, Potatoes_13, Preamble_9, Pterodactyl_9, Pumancara_9, QMacho_11, Quenya_11, RAP15_13, RcigaStruga_13, Riovina_9, Riverdale_13, Rollins_9, Rona_10, Rozby_13, SansAfet_10, Savage2526_13, Scuttle_13, Sergei_9, Sharkboy_10, SirBeanington_10, Skylord_9, Softsoap_10, Solea_11, Supakev_9, Suppi_13, TattModd_13, Temper16_9, TukTuk_10, Urla_9, Vallejo_13, Vitas_9, Vulture_9, Wawa_13, Wayne_13, WonderBoy_9, Zorro_13,

Genes that have the "Most Annotated" start but do not call it:
• Akino08_10,

Genes that do not have the "Most Annotated" start:
• Abidatro_11, AdoptaAdorbs_10, Agamotto_14, Agatha_11, AikoCarson_10, AlexMinion_10, Amanises_12, Amelia_12, AmiCi24_10, Amok_10, Amphitrite_10, AndPeggy_10, Andrew_11, Angelique_12, AnnabelLee_12, Antrice_11, Apricot_11, Asapag_11, Atlantica_10, Audell_15, AuntGwenStacy_17, AvGardian_10, Avani_12, Axym_11, AylexOG_11, Azaz_10, Azira_13, BAjuniper_10, BENtherdunthat_11, Babushka_10, BabyYoda_10, BadWillHunting_12, BaileyBlu_10, Balloona_10, Basilisk_11, Bavilard_11, BearBQ_11, Bedetta_12, BeeGee_12, Bibble12_12, BigChungus_10, BillDoor_13, Bipper_17, Birdsong_11, Biskit_12, Blarby_13, Blondies_12, BotCity_11, Bradissa_12, BritBrat_12, Brynnie_11, Bubble_11, Budski_11, Burnsey_11, Button_12, Buttrmlkdreams_11, CallinAllBarbz_10, Camara_10, CanFranMach_10, CanesSauce_11, CaramelLatte_11, CardboardBox_12, Carsonalex_12, Cashline_12, ChamoyPickle_12, Che9d_12, CheeseTouch_11, CherryonLim_12, Chickaboom_10, ChickenTender_13, Chicken_11, ChipsNGuac_12, ChocoMunchkin_11, Cleo_11, CocoaPuff_10, Colusalem_11, Confidence_12, Coral_11, Cote_12, Cozz_11, Cracklewink_17, Crater_11, Cygnet_11, DS6A_14, Damocles_12, DanHam62_10, Daob_12, Demsculpinboyz_12, DirtyBubble_10, Dre3_11, EMsquaredA_12, Ecliptus_11, Eesa_11, ElJefes_10, Elinal_12, Eliott_11, Emalyn_10, EnalisNailo_12, Ezurina_11, Faiyaz_17, Feastonyeet_10, Finalfrontier_11, Fingolfin_10, Floral_12, Fribs8_12, Frickyeah_11, Fryberger_43, GTE2_09, Gaia_8, Galaxy_11, Gerri43_12, Getalong_11, GiKK_14, Gibbous_11, Gibbzilla_11, Glotell_10, GoldHunter_11, GramZayde_11, Gravel_12, GrimEater_10, Guey18_48, HamCheese_10, HannahPhantana_12, Hexbug_13, Hilltopfarm_17, HippoPololi_13, Holliday_11, Horseradish_12, Horus_11, Icarian_11, InLimbo_11, Jabbawokkie_13, Jablanski_12, Jamun_11, Jamzy_14, Jankie_10, Jerole_12, Juicebox_12, Juno112_10, KHumphrey_10, Kamaru_11, KayGee_11, Keelan_41, KendraB23_12, Kenna_11, Kepler_11, Kuleana_11, Kuwabara_11, Lahqtemish_10, Laphuphu24k_10, LastNadiia_15, Lauer_10, Leona_10, Leroy_11, LilSpotty_10, Lilas_12, LitninMcQueen_11, LittleTokyo_11, LonelyBoi_12, Lucky10_10, Lunar_12, Lutum_11, MAnor_11, MScarn_13, MaVan_13, Makima_13, Malisha_11, Malvina_13, Margaret_14, Marteena_12, Mayweather_12, McDazzle_10, Melons_12, Mireles_12, Morkie_10, MortyNRick_11, MunkgeeRoachy_11, Nebkiss_8, Neroxid_10,

Neuvillette_12, Nibbles_13, Niblet_11, Nina_12, Nodigi_13, ODay_11, Oppalora_10, Orcanus_11, Orla_13, OtsoOtso_11, PastaFagioli_10, Pelletreau_12, Periwinkle_11, Phabuloso_11, PhirstandPhine_12, Phistory_11, PhluffyCoco_10, PhorbesPhlower_10, Polka_11, Pollux_12, PondAmelia_11, Pons_11, Posh_12, PotPie_11, PsychoKiller_11, Pytheas_12, Quasar_11, RADical_12, RSchmailzl_12, RanchParmCat_14, Rattail_10, Raya_10, RedBaron_13, RedFox_10, Renna12_11, Roberts_12, Ronaldo_46, Ruchi_11, SanaSana_11, SarBear_10, Shambre1_11, ShawBrad_11, SheckWes_10, Shen_12, SilverChicken_12, SketchMex_10, Skyerus_10, Slay_10, Sleepyhead_11, Socotra_12, Sopespian_11, Soul22_12, Spartoi_9, Spooky_11, Squiddly_12, Starburst_12, SteamedHams_13, Stellammi_8, Stoor_10, Stromboli_10, StuartMinion_10, Studio_12, SummitAcademy_10, Survivors_13, SweatNTears_13, Swervy_10, TMaxx_12, Tarnish_11, TaylorSipht_11, Toad24_12, Tolls_13, TripleC_15, Troje_11, Typha_17, Typhonomachy_11, Vine_12, Volt_45, Vulpecula_11, WalkingDead_10, Wallaby_15, Westrich_12, Whitney_11, WileyE_10, Wolfwood_13, Wrigley_12, Yakult_12, Yarn_10, Yoshi_12, Yucky_11, Yummy_12, Zapner_13, Zareef_13, Zhuangyuan_12, Ziko_46, Zixiang_11,

Summary by start number:

Start 36:
• Found in 76 of 412 (18.4%) of genes in pham
• Manual Annotations of this start: 1 of 366
• Called 1.3% of time when present
• Phage (with cluster) where this start called: Daob_12 (AS2),

Start 38:
• Found in 19 of 412 (4.6%) of genes in pham
• Manual Annotations of this start: 6 of 366
• Called 31.6% of time when present
• Phage (with cluster) where this start called: Coral_11 (AS2), Cote_12 (AS2), Kepler_11 (AS2), Kuleana_11 (AS2), Melons_12 (AS2), Polka_11 (AS2),

Start 39:
• Found in 28 of 412 (6.8%) of genes in pham
• Manual Annotations of this start: 14 of 366
• Called 53.6% of time when present
• Phage (with cluster) where this start called: Amelia_12 (AS2), AylexOG_11 (EB), BAjuniper_10 (EB), Bedetta_12 (AS2), Colusalem_11 (AS2), Finalfrontier_11 (EB), HannahPhantana_12 (AS2), Jerole_12 (AS2), Lahqtemish_10 (EB), Lunar_12 (AS2), PastaFagioli_10 (EB), PhirstandPhine_12 (AS2), SarBear_10 (EB), Slay_10 (EB), Swervy_10 (EB),

Start 40:
• Found in 138 of 412 (33.5%) of genes in pham
• Manual Annotations of this start: 133 of 366
• Called 99.3% of time when present
• Phage (with cluster) where this start called: Abigail_10 (EB), Albedo_10 (EB), Albright_10 (EB), Aledel_9 (AK), AnnaLie_11 (EB), AppleCider_13 (AK), Armstrong_9 (EB), Arroyo_11 (EB), AustinPowers_9 (AK), Avocadoman_10 (EB), Bachaco_10 (EB), Beethoven_13 (AK), BelmontSKP_11 (EB), Bengal_10 (EB), Bennie_9 (AK), Bernstein_9 (EB), BigMack_9 (AK), Bodacious_9 (AK), Brahms_9 (EB), BrotherBLo_13 (AK), BubbaBear_10 (EB), Burritobowl_10 (EB), CallieOMalley_13 (AK), Canowicakte_13 (AK), Carpal_13 (AK), Cashington_10 (EB), Celaena_10 (EB),

ChewChew_9 (AK), ChiliPepper_10 (EB), Cholula_13 (AK), Chridison_9 (AK), Christian_9 (AK), Clayda5_9 (EB), Coltrane_9 (EB), CristinaYang_9 (AK), CroZenni_10 (EB), CupcakePrincess_10 (EB), Daiboju_9 (AK), DickRichards_10 (EB), Dino_13 (AK), Dismas_10 (EB), Doobus_10 (EB), DrRobert_9 (AK), DreamTeam_9 (AK), Eden_9 (EB), EstebanJulior_9 (AK), Eula_10 (EB), Eunoia_9 (AK), FlameThrower_10 (EB), Fluke_13 (AK), Franklin22_9 (EB), Gack_9 (EB), Gisselle_9 (AK), Glenn_13 (AK), Graynor_13 (AK), HeadNerd_9 (AK), Herb_9 (AK), Huckleberry_9 (AK), HunterDalle_9 (AK), Huntingdon_13 (AK), Immaculata_13 (AK), Jabb_10 (EB), Johnathan_10 (EB), Jovita_10 (EB), Jumboset_13 (AK), Kalizoi_13 (AK), Kamdara_10 (EB), Katzastrophic_10 (EB), Kenzers_10 (EB), Kieran_10 (EB), KingBob_9 (AK), Kittykat_9 (AK), Korra_13 (AK), Lasagna_9 (AK), Lennox_9 (AK), LilStuart_9 (AK), Lilo27_10 (EB), LimaBean_10 (EB), Litotes_13 (AK), Loviatar_10 (EB), Lucy_9 (AK), Lynlen_10 (EB), Makoto_9 (AK), MamaPearl_9 (AK), Maria1952_9 (AK), MeganNoll_13 (AK), Milomuff_11 (EB), Misaeng_13 (AK), Moki_9 (AK), MrBoss_13 (AK), MrGloopy_13 (AK), MsUbiquitous_10 (EB), Nancia_9 (AK), Nicky22_11 (EB), OMalley_9 (AK), OurGirlNessie_9 (AK), PartyCup_13 (AK), Pecas_10 (EB), PhigPhack_10 (EB), Phisb_10 (EB), PinkFriday_9 (AK), PitaDog_9 (AK), Potatoes_13 (AK), Preamble_9 (AK), Pterodactyl_9 (AK), Pumancara_9 (AK), QMacho_11 (EB), Quenya_11 (EB), RAP15_13 (AK), RcigaStruga_13 (AK), Riovina_9 (AK), Riverdale_13 (AK), Rollins_9 (EB), Rona_10 (EB), Rozby_13 (AK), SansAfet_10 (EB), Savage2526_13 (AK), Scuttle_13 (AK), Sergei_9 (AK), Sharkboy_10 (EB), SirBeanington_10 (EB), Skylord_9 (EB), Softsoap_10 (EB), Solea_11 (EB), Supakev_9 (AK), Suppi_13 (AK), TattModd_13 (AK), Temper16_9 (AK), TukTuk_10 (EB), Urla_9 (AK), Vallejo_13 (AK), Vitas_9 (EB), Vulture_9 (AK), Wawa_13 (AK), Wayne_13 (AK), WonderBoy_9 (AK), Zorro_13 (AK),

Start 41:
• Found in 69 of 412 (16.7%) of genes in pham
• Manual Annotations of this start: 43 of 366
• Called 79.7% of time when present
• Phage (with cluster) where this start called: Abidatro_11 (AS1), AdoptaAdorbs_10 (AS3), AlexMinion_10 (AS3), Amanises_12 (AS1), AmiCi24_10 (AS3), Amphitrite_10 (AS3), Andrew_11 (AS3), Antrice_11 (AS2), Atlantica_10 (AS3), Azaz_10 (AS3), Babushka_10 (AS3), BadWillHunting_12 (AS2), Basilisk_11 (AS1), Bibble12_12 (AS2), Brynnie_11 (AS1), Camara_10 (AS3), CanFranMach_10 (EB), Chickaboom_10 (AS1), Chicken_11 (AS1), Cygnet_11 (AS2), Damocles_12 (AS2), DanHam62_10 (AS3), Eesa_11 (AS1), Fingolfin_10 (AS3), Galaxy_11 (AS1), Glotell_10 (AS3), GramZayde_11 (AS2), Gravel_12 (AS1), HamCheese_10 (AS3), Jamun_11 (AS1), Juno112_10 (AS3), KHumphrey_10 (AS3), KendraB23_12 (AS1), Laphuphu24k_10 (AS3), Leona_10 (AS3), LittleTokyo_11 (AS2), Niblet_11 (AS1), Oppalora_10 (AS3), Orcanus_11 (AS1), OtsoOtso_11 (AS2), Pelletreau_12 (AS1), PhluffyCoco_10 (AS3), Rattail_10 (AS3), RedFox_10 (AS3), Renna12_11 (AS3), Ruchi_11 (AS1), Shen_12 (AS1), StuartMinion_10 (AS3), TaylorSipht_11 (AS1), Toad24_12 (AS1), Vulpecula_11 (AS1), Westrich_12 (AS1), WileyE_10 (AS1), Zhuangyuan_12 (AS2), Zixiang_11 (AS1),

Start 42:
• Found in 2 of 412 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 366
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Akino08_10 (EB),

Start 44:

• Found in 1 of 412 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 366
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Lauer_10 (CT),

Start 47:
• Found in 9 of 412 (2.2%) of genes in pham
• Manual Annotations of this start: 6 of 366
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Fryberger_43 (DP), Guey18_48 (DP), Keelan_41 (DP), Ronaldo_46 (DP), Volt_45 (DP), Ziko_46 (DP),

Start 49:
• Found in 21 of 412 (5.1%) of genes in pham
• Manual Annotations of this start: 1 of 366
• Called 4.8% of time when present
• Phage (with cluster) where this start called: Bavilard_11 (CT),

Start 50:
• Found in 3 of 412 (0.7%) of genes in pham
• Manual Annotations of this start: 3 of 366
• Called 100.0% of time when present
• Phage (with cluster) where this start called: PondAmelia_11 (EB), SanaSana_11 (EB), Stoor_10 (EB),

Start 51:
• Found in 84 of 412 (20.4%) of genes in pham
• Manual Annotations of this start: 66 of 366
• Called 92.9% of time when present
• Phage (with cluster) where this start called: Agatha_11 (CT), AikoCarson_10 (CT), Amok_10 (CT), AndPeggy_10 (CT), Axym_11 (CT), Azira_13 (CT), Balloona_10 (CT), BigChungus_10 (CT), BillDoor_13 (CT), Biskit_12 (CT), Blondies_12 (CT), Bubble_11 (CT), Burnsey_11 (CT), Button_12 (CT), Buttrmlkdreams_11 (CT), Carsonalex_12 (CT), CherryonLim_12 (CT), ChickenTender_13 (CT), Cleo_11 (CT), CocoaPuff_10 (CT), Cozz_11 (CT), Dre3_11 (CT), ElJefes_10 (CT), Elinal_12 (CT), Eliott_11 (CT), Emalyn_10 (CT), Feastonyeet_10 (CT), Fribs8_12 (CT), GTE2_09 (CT), GiKK_14 (CT), Gibbous_11 (CT), GoldHunter_11 (CT), Hexbug_13 (CT), HippoPololi_13 (CT), Horseradish_12 (CT), Jamzy_14 (CT), KayGee_11 (CT), MAnor_11 (CT), MScarn_13 (CT), MaVan_13 (CT), Margaret_14 (CT), Mayweather_12 (CT), McDazzle_10 (CT), MunkgeeRoachy_11 (CT), Nibbles_13 (CT), Nina_12 (CT), Nodigi_13 (CT), Orla_13 (CT), Pons_11 (CT), PotPie_11 (CT), PsychoKiller_11 (CT), Quasar_11 (CT), RADical_12 (CT), RSchmailzl_12 (CT), RanchParmCat_14 (CT), RedBaron_13 (CT), SheckWes_10 (CT), SketchMex_10 (CT), Sleepyhead_11 (singleton), Socotra_12 (CT), Sopespian_11 (CT), Starburst_12 (CT), SteamedHams_13 (CT), SummitAcademy_10 (CT), Survivors_13 (CT), SweatNTears_13 (CT), Tarnish_11 (CT), Tolls_13 (CT), Troje_11 (CT), Typhonomachy_11 (CT), Vine_12 (CT), Wallaby_15 (CT), Wolfwood_13 (CT), Yakult_12 (CT), Yarn_10 (CT), Yucky_11 (CT), Yummy_12 (CT), Zareef_13 (CT),

Start 53:
• Found in 32 of 412 (7.8%) of genes in pham
• Manual Annotations of this start: 29 of 366
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Angelique_12 (CY1), AvGardian_10 (EB), Avani_12 (F2), BabyYoda_10 (EB), BeeGee_12 (CY5), Blarby_13 (F), Bradissa_12 (CY1), BritBrat_12 (CY2), Cashline_12 (CY6), Che9d_12 (F2), Confidence_12 (CY1), Demsculpinboyz_12 (F2), DirtyBubble_10 (EB), EMsquaredA_12 (CY1), EnalisNailo_12 (CY1), Floral_12 (CY1), Icarian_11 (EB), Jabbawokkie_13 (F2), Jablanski_12 (CY3), Lilas_12 (CY1), LonelyBoi_12 (CY7), Marteena_12 (CY1), Pollux_12 (CY1), Posh_12 (CY4), Pytheas_12 (CY3), SilverChicken_12 (F2), Soul22_12 (F2), Stromboli_10 (EB), WalkingDead_10 (EB), Wrigley_12 (CY4), Yoshi_12 (F2), Zapner_13 (F2),

Start 54:
• Found in 53 of 412 (12.9%) of genes in pham
• Manual Annotations of this start: 46 of 366
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Agamotto_14 (FR), AnnabelLee_12 (FR), Apricot_11 (DN3), Asapag_11 (DN1), Audell_15 (FR), BENtherdunthat_11 (DN1), BearBQ_11 (DN), Birdsong_11 (DN), BotCity_11 (DN), Budski_11 (DN), CardboardBox_12 (FR), ChamoyPickle_12 (FR), CheeseTouch_11 (DN1), ChipsNGuac_12 (FR), Crater_11 (DN3), DS6A_14 (singleton), Ezurina_11 (FR), Frickyeah_11 (DN1), Gaia_8 (X), Gerri43_12 (FR), Getalong_11 (DN1), Holliday_11 (DN1), Horus_11 (DN1), InLimbo_11 (DH), Kamaru_11 (DN1), Kenna_11 (DN1), Kuwabara_11 (DN4), LastNadiia_15 (FR), Leroy_11 (DN1), LilSpotty_10 (singleton), LitninMcQueen_11 (DN1), Lucky10_10 (DH), Lutum_11 (DN1), Makima_13 (FR), Malisha_11 (DN), Mireles_12 (FR), Morkie_10 (DH), MortyNRick_11 (DN), Nebkiss_8 (X), Neuvillette_12 (FR), Periwinkle_11 (DN1), Phabuloso_11 (DN1), Phistory_11 (DN1), PhorbesPhlower_10 (DH), Roberts_12 (FR), ShawBrad_11 (DN1), Spooky_11 (DN2), Squiddly_12 (DN2), Stellammi_8 (UNK), Studio_12 (FR), TMaxx_12 (FR), TripleC_15 (FR), Whitney_11 (DN1),

Start 55:
• Found in 2 of 412 (0.5%) of genes in pham
• Manual Annotations of this start: 2 of 366
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Shambre1_11 (singleton), Spartoi_9 (singleton),

Start 56:
• Found in 4 of 412 (1.0%) of genes in pham
• Manual Annotations of this start: 4 of 366
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ecliptus_11 (DN), Gibbzilla_11 (FB), Juicebox_12 (singleton), ODay_11 (DN),

Start 57:
• Found in 3 of 412 (0.7%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Neroxid_10 (FQ2), Raya_10 (FQ2), Skyerus_10 (FQ2),

Start 60:
• Found in 33 of 412 (8.0%) of genes in pham
• Manual Annotations of this start: 4 of 366

• Called 15.2% of time when present
• Phage (with cluster) where this start called: BaileyBlu_10 (FP), CallinAllBarbz_10 (FP), GrimEater_10 (FP), Jankie_10 (FP), Malvina_13 (CT),

Start 72:
• Found in 6 of 412 (1.5%) of genes in pham
• Manual Annotations of this start: 6 of 366
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AuntGwenStacy_17 (Y), Bipper_17 (Y), Cracklewink_17 (Y), Faiyaz_17 (Y), Hilltopfarm_17 (Y), Typha_17 (Y),

Start 76:
• Found in 45 of 412 (10.9%) of genes in pham
• No Manual Annotations of this start.
• Called 6.7% of time when present
• Phage (with cluster) where this start called: CanesSauce_11 (CT), CaramelLatte_11 (CT), ChocoMunchkin_11 (CT),

Summary by clusters:

There are 30 clusters represented in this pham: DN, FP, FR, DH, CY2, CY1, FB, DP, CY3, F, DN4, DN1, DN3, DN2, AS3, AS2, AS1, CY7, CY6, CY5, CY4, AK, EB, Y, X, singleton, UNK, CT, F2, FQ2,

Info for manual annotations of cluster AK:
•Start number 40 was manually annotated 77 times for cluster AK.

Info for manual annotations of cluster AS1:
•Start number 41 was manually annotated 18 times for cluster AS1.

Info for manual annotations of cluster AS2:
•Start number 36 was manually annotated 1 time for cluster AS2.
•Start number 38 was manually annotated 6 times for cluster AS2.
•Start number 39 was manually annotated 6 times for cluster AS2.
•Start number 41 was manually annotated 5 times for cluster AS2.

Info for manual annotations of cluster AS3:
•Start number 41 was manually annotated 19 times for cluster AS3.

Info for manual annotations of cluster CT:
•Start number 44 was manually annotated 1 time for cluster CT.
•Start number 49 was manually annotated 1 time for cluster CT.
•Start number 51 was manually annotated 65 times for cluster CT.

Info for manual annotations of cluster CY1:
•Start number 53 was manually annotated 9 times for cluster CY1.

Info for manual annotations of cluster CY2:
•Start number 53 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster CY3:
•Start number 53 was manually annotated 2 times for cluster CY3.

Info for manual annotations of cluster CY4:
•Start number 53 was manually annotated 2 times for cluster CY4.

Info for manual annotations of cluster CY5:
•Start number 53 was manually annotated 1 time for cluster CY5.

Info for manual annotations of cluster CY6:
•Start number 53 was manually annotated 1 time for cluster CY6.

Info for manual annotations of cluster CY7:
•Start number 53 was manually annotated 1 time for cluster CY7.

Info for manual annotations of cluster DH:
•Start number 54 was manually annotated 3 times for cluster DH.

Info for manual annotations of cluster DN:
•Start number 54 was manually annotated 6 times for cluster DN.
•Start number 56 was manually annotated 2 times for cluster DN.

Info for manual annotations of cluster DN1:
•Start number 54 was manually annotated 16 times for cluster DN1.

Info for manual annotations of cluster DN2:
•Start number 54 was manually annotated 2 times for cluster DN2.

Info for manual annotations of cluster DN3:
•Start number 54 was manually annotated 2 times for cluster DN3.

Info for manual annotations of cluster DN4:
•Start number 54 was manually annotated 1 time for cluster DN4.

Info for manual annotations of cluster DP:
•Start number 47 was manually annotated 6 times for cluster DP.

Info for manual annotations of cluster EB:
•Start number 39 was manually annotated 8 times for cluster EB.
•Start number 40 was manually annotated 56 times for cluster EB.
•Start number 41 was manually annotated 1 time for cluster EB.
•Start number 42 was manually annotated 1 time for cluster EB.
•Start number 50 was manually annotated 3 times for cluster EB.
•Start number 53 was manually annotated 5 times for cluster EB.

Info for manual annotations of cluster F2:
•Start number 53 was manually annotated 7 times for cluster F2.

Info for manual annotations of cluster FB:
•Start number 56 was manually annotated 1 time for cluster FB.

Info for manual annotations of cluster FP:
•Start number 60 was manually annotated 4 times for cluster FP.

Info for manual annotations of cluster FR:
•Start number 54 was manually annotated 11 times for cluster FR.

Info for manual annotations of cluster UNK:
•Start number 54 was manually annotated 1 time for cluster UNK.

Info for manual annotations of cluster X:
•Start number 54 was manually annotated 2 times for cluster X.

Info for manual annotations of cluster Y:
•Start number 72 was manually annotated 6 times for cluster Y.

Gene Information:

Gene: Abidatro_11 Start: 8071, Stop: 8328, Start Num: 41
Candidate Starts for Abidatro_11:
(35, 8053), (Start: 41 @8071 has 43 MA's), (88, 8185), (110, 8239), (111, 8242),

Gene: Abigail_10 Start: 7773, Stop: 8030, Start Num: 40
Candidate Starts for Abigail_10:
(Start: 36 @7761 has 1 MA's), (Start: 40 @7773 has 133 MA's), (63, 7794), (112, 7950), (120, 8001),

Gene: AdoptaAdorbs_10 Start: 7655, Stop: 7909, Start Num: 41
Candidate Starts for AdoptaAdorbs_10:
(33, 7619), (Start: 41 @7655 has 43 MA's), (62, 7679), (75, 7724), (80, 7736), (90, 7781), (92, 7787), (109, 7799), (112, 7826),

Gene: Agamotto_14 Start: 10531, Stop: 10791, Start Num: 54
Candidate Starts for Agamotto_14:
(Start: 54 @10531 has 46 MA's), (87, 10630), (112, 10711), (113, 10714),

Gene: Agatha_11 Start: 7257, Stop: 7538, Start Num: 51
Candidate Starts for Agatha_11:
(Start: 51 @7257 has 66 MA's),

Gene: AikoCarson_10 Start: 6987, Stop: 7256, Start Num: 51
Candidate Starts for AikoCarson_10:
(Start: 51 @6987 has 66 MA's),

Gene: Akino08_10 Start: 7908, Stop: 8216, Start Num: 42
Candidate Starts for Akino08_10:
(Start: 40 @7896 has 133 MA's), (Start: 42 @7908 has 1 MA's), (75, 8022), (112, 8136),

Gene: Albedo_10 Start: 7645, Stop: 7905, Start Num: 40
Candidate Starts for Albedo_10:
(Start: 36 @7633 has 1 MA's), (Start: 40 @7645 has 133 MA's), (63, 7669), (112, 7825), (115, 7840), (120, 7876),

Gene: Albright_10 Start: 7654, Stop: 7911, Start Num: 40
Candidate Starts for Albright_10:
(Start: 36 @7642 has 1 MA's), (Start: 40 @7654 has 133 MA's), (63, 7675), (112, 7831), (120, 7882),

Gene: Aledel_9 Start: 7261, Stop: 7548, Start Num: 40
Candidate Starts for Aledel_9:
(Start: 40 @7261 has 133 MA's), (86, 7360), (112, 7468), (125, 7540),

Gene: AlexMinion_10 Start: 7681, Stop: 7935, Start Num: 41
Candidate Starts for AlexMinion_10:
(9, 7405), (12, 7444), (Start: 41 @7681 has 43 MA's), (76, 7753), (90, 7807), (107, 7819), (109, 7825), (112, 7852),

Gene: Amanises_12 Start: 8245, Stop: 8499, Start Num: 41
Candidate Starts for Amanises_12:
(22, 8116), (33, 8209), (35, 8227), (Start: 41 @8245 has 43 MA's), (62, 8269), (107, 8383), (109, 8389), (113, 8419),

Gene: Amelia_12 Start: 8244, Stop: 8504, Start Num: 39
Candidate Starts for Amelia_12:
(Start: 36 @8235 has 1 MA's), (Start: 38 @8241 has 6 MA's), (Start: 39 @8244 has 14 MA's), (Start: 41 @8250 has 43 MA's), (62, 8274), (75, 8319), (92, 8382), (109, 8394),

Gene: AmiCi24_10 Start: 7655, Stop: 7909, Start Num: 41
Candidate Starts for AmiCi24_10:
(10, 7397), (13, 7421), (15, 7457), (20, 7505), (33, 7619), (Start: 41 @7655 has 43 MA's), (62, 7679), (76, 7727), (80, 7736), (90, 7781), (109, 7799), (112, 7826),

Gene: Amok_10 Start: 6987, Stop: 7256, Start Num: 51
Candidate Starts for Amok_10:
(Start: 51 @6987 has 66 MA's),

Gene: Amphitrite_10 Start: 7653, Stop: 7907, Start Num: 41
Candidate Starts for Amphitrite_10:
(33, 7617), (Start: 41 @7653 has 43 MA's), (62, 7677), (75, 7722), (80, 7734), (90, 7779), (92, 7785), (109, 7797), (112, 7824),

Gene: AndPeggy_10 Start: 7275, Stop: 7547, Start Num: 51
Candidate Starts for AndPeggy_10:
(Start: 51 @7275 has 66 MA's),

Gene: Andrew_11 Start: 8034, Stop: 8288, Start Num: 41
Candidate Starts for Andrew_11:
(5, 7596), (7, 7704), (17, 7854), (22, 7905), (25, 7923), (33, 7998), (Start: 41 @8034 has 43 MA's), (62, 8058), (76, 8106), (90, 8160), (92, 8166), (109, 8178), (112, 8205),

Gene: Angelique_12 Start: 8007, Stop: 8264, Start Num: 53
Candidate Starts for Angelique_12:
(Start: 53 @8007 has 29 MA's), (84, 8088), (123, 8256),

Gene: AnnaLie_11 Start: 8000, Stop: 8320, Start Num: 40
Candidate Starts for AnnaLie_11:
(Start: 36 @7988 has 1 MA's), (Start: 40 @8000 has 133 MA's), (63, 8084), (111, 8237),

Gene: AnnabelLee_12 Start: 7464, Stop: 7730, Start Num: 54
Candidate Starts for AnnabelLee_12:

(Start: 54 @7464 has 46 MA's), (112, 7650), (113, 7653), (122, 7710),

Gene: Antrice_11 Start: 7990, Stop: 8244, Start Num: 41
Candidate Starts for Antrice_11:
(33, 7954), (Start: 41 @7990 has 43 MA's), (62, 8014), (92, 8122), (110, 8155), (112, 8161),

Gene: AppleCider_13 Start: 10140, Stop: 10409, Start Num: 40
Candidate Starts for AppleCider_13:
(Start: 36 @10128 has 1 MA's), (Start: 40 @10140 has 133 MA's), (Start: 60 @10158 has 4 MA's), (80, 10218), (86, 10239), (112, 10326),

Gene: Apricot_11 Start: 7129, Stop: 7386, Start Num: 54
Candidate Starts for Apricot_11:
(45, 7096), (Start: 54 @7129 has 46 MA's), (86, 7222), (90, 7243), (112, 7315), (113, 7318), (116, 7339), (121, 7369),

Gene: Armstrong_9 Start: 7425, Stop: 7688, Start Num: 40
Candidate Starts for Armstrong_9:
(31, 7368), (Start: 40 @7425 has 133 MA's), (43, 7440), (63, 7455), (106, 7572), (116, 7632), (121, 7662),

Gene: Arroyo_11 Start: 8124, Stop: 8381, Start Num: 40
Candidate Starts for Arroyo_11:
(Start: 36 @8112 has 1 MA's), (Start: 40 @8124 has 133 MA's), (63, 8145), (111, 8298), (112, 8301), (115, 8316), (120, 8352),

Gene: Asapag_11 Start: 6824, Stop: 7048, Start Num: 54
Candidate Starts for Asapag_11:
(18, 6587), (19, 6602), (28, 6686), (43, 6782), (Start: 54 @6824 has 46 MA's), (74, 6863), (80, 6881), (101, 6938), (105, 6944), (112, 6971), (123, 7034),

Gene: Atlantica_10 Start: 7655, Stop: 7909, Start Num: 41
Candidate Starts for Atlantica_10:
(10, 7397), (13, 7421), (15, 7457), (20, 7505), (33, 7619), (Start: 41 @7655 has 43 MA's), (62, 7679), (76, 7727), (80, 7736), (90, 7781), (109, 7799), (112, 7826),

Gene: Audell_15 Start: 10801, Stop: 11070, Start Num: 54
Candidate Starts for Audell_15:
(Start: 54 @10801 has 46 MA's), (112, 10990), (113, 10993),

Gene: AuntGwenStacy_17 Start: 11749, Stop: 11997, Start Num: 72
Candidate Starts for AuntGwenStacy_17:
(52, 11692), (Start: 72 @11749 has 6 MA's), (83, 11791), (100, 11866), (113, 11914), (121, 11965), (125, 11983),

Gene: AustinPowers_9 Start: 7262, Stop: 7549, Start Num: 40
Candidate Starts for AustinPowers_9:
(Start: 40 @7262 has 133 MA's), (86, 7361), (112, 7469),

Gene: AvGardian_10 Start: 7705, Stop: 7968, Start Num: 53
Candidate Starts for AvGardian_10:
(48, 7699), (Start: 53 @7705 has 29 MA's), (63, 7732),

Gene: Avani_12 Start: 6948, Stop: 7220, Start Num: 53
Candidate Starts for Avani_12:
(Start: 53 @6948 has 29 MA's), (75, 7008), (76, 7011), (86, 7041), (90, 7065), (98, 7095), (114, 7155),

Gene: Avocadoman_10 Start: 7712, Stop: 7969, Start Num: 40
Candidate Starts for Avocadoman_10:
(Start: 36 @7700 has 1 MA's), (Start: 40 @7712 has 133 MA's), (63, 7733), (112, 7889), (120, 7940),

Gene: Axym_11 Start: 7257, Stop: 7538, Start Num: 51
Candidate Starts for Axym_11:
(29, 7134), (Start: 51 @7257 has 66 MA's),

Gene: AylexOG_11 Start: 7993, Stop: 8256, Start Num: 39
Candidate Starts for AylexOG_11:
(Start: 36 @7984 has 1 MA's), (Start: 39 @7993 has 14 MA's), (63, 8020), (112, 8176), (115, 8191),

Gene: Azaz_10 Start: 7706, Stop: 7960, Start Num: 41
Candidate Starts for Azaz_10:
(10, 7448), (13, 7472), (15, 7508), (20, 7556), (32, 7664), (33, 7670), (Start: 41 @7706 has 43 MA's), (62, 7730), (76, 7778), (80, 7787), (90, 7832), (109, 7850), (112, 7877),

Gene: Azira_13 Start: 8163, Stop: 8462, Start Num: 51
Candidate Starts for Azira_13:
(Start: 49 @8160 has 1 MA's), (Start: 51 @8163 has 66 MA's), (86, 8265), (103, 8334), (112, 8376), (122, 8436), (123, 8439), (124, 8442),

Gene: BAjuniper_10 Start: 7595, Stop: 7852, Start Num: 39
Candidate Starts for BAjuniper_10:
(Start: 36 @7586 has 1 MA's), (Start: 39 @7595 has 14 MA's), (63, 7616), (111, 7769), (112, 7772), (119, 7817),

Gene: BENtherdunthat_11 Start: 6824, Stop: 7048, Start Num: 54
Candidate Starts for BENtherdunthat_11:
(18, 6587), (19, 6602), (28, 6686), (43, 6782), (Start: 54 @6824 has 46 MA's), (74, 6863), (80, 6881), (101, 6938), (105, 6944), (112, 6971), (123, 7034),

Gene: Babushka_10 Start: 7703, Stop: 7957, Start Num: 41
Candidate Starts for Babushka_10:
(10, 7445), (13, 7469), (15, 7505), (20, 7553), (33, 7667), (Start: 41 @7703 has 43 MA's), (62, 7727), (76, 7775), (90, 7829), (109, 7847), (112, 7874),

Gene: BabyYoda_10 Start: 7899, Stop: 8162, Start Num: 53
Candidate Starts for BabyYoda_10:
(Start: 53 @7899 has 29 MA's), (58, 7911), (63, 7926), (106, 8043), (112, 8082), (115, 8097),

Gene: Bachaco_10 Start: 7786, Stop: 8049, Start Num: 40
Candidate Starts for Bachaco_10:
(Start: 36 @7774 has 1 MA's), (Start: 40 @7786 has 133 MA's), (63, 7813), (69, 7831), (106, 7930), (112, 7969),

Gene: BadWillHunting_12 Start: 8250, Stop: 8504, Start Num: 41
Candidate Starts for BadWillHunting_12:

(Start: 36 @8235 has 1 MA's), (Start: 38 @8241 has 6 MA's), (Start: 39 @8244 has 14 MA's), (Start: 41 @8250 has 43 MA's), (62, 8274), (75, 8319), (92, 8382), (109, 8394),

Gene: BaileyBlu_10 Start: 6510, Stop: 6782, Start Num: 60
Candidate Starts for BaileyBlu_10:
(Start: 60 @6510 has 4 MA's), (66, 6525), (73, 6546), (76, 6570), (78, 6573), (80, 6579), (112, 6699),

Gene: Balloona_10 Start: 7029, Stop: 7301, Start Num: 51
Candidate Starts for Balloona_10:
(Start: 49 @7026 has 1 MA's), (Start: 51 @7029 has 66 MA's), (110, 7212), (112, 7218), (116, 7242),

Gene: Basilisk_11 Start: 8395, Stop: 8652, Start Num: 41
Candidate Starts for Basilisk_11:
(2, 7819), (5, 7933), (7, 8041), (8, 8086), (20, 8242), (Start: 41 @8395 has 43 MA's), (110, 8563),

Gene: Bavilard_11 Start: 7806, Stop: 8081, Start Num: 49
Candidate Starts for Bavilard_11:
(Start: 49 @7806 has 1 MA's), (Start: 51 @7809 has 66 MA's), (110, 7992), (112, 7998), (116, 8022),

Gene: BearBQ_11 Start: 7129, Stop: 7386, Start Num: 54
Candidate Starts for BearBQ_11:
(45, 7096), (Start: 54 @7129 has 46 MA's), (95, 7264), (110, 7309), (112, 7315), (113, 7318), (116, 7339),

Gene: Bedetta_12 Start: 8244, Stop: 8504, Start Num: 39
Candidate Starts for Bedetta_12:
(Start: 36 @8235 has 1 MA's), (Start: 38 @8241 has 6 MA's), (Start: 39 @8244 has 14 MA's), (Start: 41 @8250 has 43 MA's), (62, 8274), (75, 8319), (92, 8382), (109, 8394),

Gene: BeeGee_12 Start: 8009, Stop: 8266, Start Num: 53
Candidate Starts for BeeGee_12:
(Start: 53 @8009 has 29 MA's), (116, 8219), (123, 8258),

Gene: Beethoven_13 Start: 10100, Stop: 10369, Start Num: 40
Candidate Starts for Beethoven_13:
(Start: 40 @10100 has 133 MA's), (71, 10151), (75, 10166), (86, 10199),

Gene: BelmontSKP_11 Start: 8000, Stop: 8320, Start Num: 40
Candidate Starts for BelmontSKP_11:
(Start: 36 @7988 has 1 MA's), (Start: 40 @8000 has 133 MA's), (63, 8084), (111, 8237),

Gene: Bengal_10 Start: 7654, Stop: 7911, Start Num: 40
Candidate Starts for Bengal_10:
(Start: 36 @7642 has 1 MA's), (Start: 40 @7654 has 133 MA's), (63, 7675), (112, 7831), (120, 7882),

Gene: Bennie_9 Start: 7245, Stop: 7514, Start Num: 40
Candidate Starts for Bennie_9:
(Start: 40 @7245 has 133 MA's), (Start: 60 @7263 has 4 MA's), (86, 7344), (104, 7389), (112, 7431),

Gene: Bernstein_9 Start: 7485, Stop: 7748, Start Num: 40
Candidate Starts for Bernstein_9:
(31, 7428), (Start: 40 @7485 has 133 MA's), (43, 7500), (63, 7515), (106, 7632), (116, 7692), (121, 7722),

Gene: Bibble12_12 Start: 8253, Stop: 8507, Start Num: 41
Candidate Starts for Bibble12_12:
(Start: 36 @8238 has 1 MA's), (Start: 38 @8244 has 6 MA's), (Start: 39 @8247 has 14 MA's), (Start: 41 @8253 has 43 MA's), (62, 8277), (75, 8322), (92, 8385), (109, 8397),

Gene: BigChungus_10 Start: 7054, Stop: 7326, Start Num: 51
Candidate Starts for BigChungus_10:
(Start: 49 @7051 has 1 MA's), (Start: 51 @7054 has 66 MA's), (110, 7237), (112, 7243), (116, 7267),

Gene: BigMack_9 Start: 7245, Stop: 7514, Start Num: 40
Candidate Starts for BigMack_9:
(Start: 40 @7245 has 133 MA's), (75, 7311), (86, 7344), (112, 7431), (125, 7503),

Gene: BillDoor_13 Start: 7240, Stop: 7512, Start Num: 51
Candidate Starts for BillDoor_13:
(Start: 51 @7240 has 66 MA's),

Gene: Bipper_17 Start: 11835, Stop: 12083, Start Num: 72
Candidate Starts for Bipper_17:
(52, 11778), (Start: 72 @11835 has 6 MA's), (96, 11934), (100, 11952), (102, 11955), (113, 12000),

Gene: Birdsong_11 Start: 7129, Stop: 7386, Start Num: 54
Candidate Starts for Birdsong_11:
(45, 7096), (Start: 54 @7129 has 46 MA's), (95, 7264), (110, 7309), (112, 7315), (113, 7318), (116, 7339),

Gene: Biskit_12 Start: 7241, Stop: 7519, Start Num: 51
Candidate Starts for Biskit_12:
(Start: 51 @7241 has 66 MA's), (76, 7310), (94, 7382),

Gene: Blarby_13 Start: 7472, Stop: 7744, Start Num: 53
Candidate Starts for Blarby_13:
(Start: 53 @7472 has 29 MA's), (75, 7532), (76, 7535), (86, 7565), (90, 7589), (98, 7619), (114, 7679),

Gene: Blondies_12 Start: 7236, Stop: 7505, Start Num: 51
Candidate Starts for Blondies_12:
(Start: 51 @7236 has 66 MA's), (76, 7296), (94, 7368),

Gene: Bodacious_9 Start: 7243, Stop: 7512, Start Num: 40
Candidate Starts for Bodacious_9:
(Start: 40 @7243 has 133 MA's), (80, 7321), (86, 7342), (112, 7429),

Gene: BotCity_11 Start: 6822, Stop: 7046, Start Num: 54
Candidate Starts for BotCity_11:
(18, 6585), (19, 6600), (28, 6684), (43, 6780), (Start: 54 @6822 has 46 MA's), (74, 6861), (80, 6879), (101, 6936), (105, 6942), (112, 6969), (123, 7032),

Gene: Bradissa_12 Start: 8013, Stop: 8270, Start Num: 53
Candidate Starts for Bradissa_12:
(Start: 53 @8013 has 29 MA's), (116, 8223), (123, 8262),

Gene: Brahms_9 Start: 7425, Stop: 7688, Start Num: 40

Candidate Starts for Brahms_9:
(31, 7368), (Start: 40 @7425 has 133 MA's), (43, 7440), (63, 7455), (106, 7572), (116, 7632), (121, 7662),

Gene: BritBrat_12 Start: 8015, Stop: 8272, Start Num: 53
Candidate Starts for BritBrat_12:
(Start: 53 @8015 has 29 MA's), (116, 8225), (123, 8264),

Gene: BrotherBLo_13 Start: 10107, Stop: 10376, Start Num: 40
Candidate Starts for BrotherBLo_13:
(Start: 40 @10107 has 133 MA's), (71, 10158), (75, 10173), (86, 10206),

Gene: Brynnie_11 Start: 8207, Stop: 8464, Start Num: 41
Candidate Starts for Brynnie_11:
(2, 7631), (5, 7745), (7, 7853), (8, 7898), (20, 8054), (Start: 41 @8207 has 43 MA's), (82, 8297), (110, 8375),

Gene: BubbaBear_10 Start: 7645, Stop: 7905, Start Num: 40
Candidate Starts for BubbaBear_10:
(Start: 36 @7633 has 1 MA's), (Start: 40 @7645 has 133 MA's), (63, 7669), (112, 7825), (115, 7840),

Gene: Bubble_11 Start: 7257, Stop: 7538, Start Num: 51
Candidate Starts for Bubble_11:
(29, 7134), (Start: 51 @7257 has 66 MA's),

Gene: Budski_11 Start: 6829, Stop: 7053, Start Num: 54
Candidate Starts for Budski_11:
(43, 6787), (Start: 54 @6829 has 46 MA's), (74, 6868), (80, 6886), (101, 6943), (105, 6949), (112, 6976), (123, 7039),

Gene: Burnsey_11 Start: 7258, Stop: 7539, Start Num: 51
Candidate Starts for Burnsey_11:
(Start: 51 @7258 has 66 MA's),

Gene: Burritobowl_10 Start: 7681, Stop: 7938, Start Num: 40
Candidate Starts for Burritobowl_10:
(Start: 36 @7669 has 1 MA's), (Start: 40 @7681 has 133 MA's), (63, 7702), (112, 7858), (120, 7909),

Gene: Button_12 Start: 7274, Stop: 7543, Start Num: 51
Candidate Starts for Button_12:
(Start: 51 @7274 has 66 MA's), (63, 7289), (75, 7331), (121, 7514),

Gene: Buttrmlkdreams_11 Start: 7235, Stop: 7504, Start Num: 51
Candidate Starts for Buttrmlkdreams_11:
(Start: 51 @7235 has 66 MA's), (76, 7295), (94, 7367),

Gene: CallieOMalley_13 Start: 10140, Stop: 10409, Start Num: 40
Candidate Starts for CallieOMalley_13:
(Start: 36 @10128 has 1 MA's), (Start: 40 @10140 has 133 MA's), (Start: 60 @10158 has 4 MA's), (80, 10218), (86, 10239), (112, 10326),

Gene: CallinAllBarbz_10 Start: 6520, Stop: 6792, Start Num: 60
Candidate Starts for CallinAllBarbz_10:

(Start: 60 @6520 has 4 MA's), (66, 6535), (104, 6667), (112, 6709),

Gene: Camara_10 Start: 7656, Stop: 7910, Start Num: 41
Candidate Starts for Camara_10:
(33, 7620), (Start: 41 @7656 has 43 MA's), (62, 7680), (75, 7725), (80, 7737), (90, 7782), (92, 7788), (109, 7800), (112, 7827),

Gene: CanFranMach_10 Start: 7671, Stop: 7928, Start Num: 41
Candidate Starts for CanFranMach_10:
(Start: 41 @7671 has 43 MA's), (75, 7734), (112, 7848), (115, 7863),

Gene: CanesSauce_11 Start: 7339, Stop: 7548, Start Num: 76
Candidate Starts for CanesSauce_11:
(Start: 51 @7276 has 66 MA's), (76, 7339),

Gene: Canowicakte_13 Start: 10175, Stop: 10444, Start Num: 40
Candidate Starts for Canowicakte_13:
(Start: 36 @10163 has 1 MA's), (Start: 40 @10175 has 133 MA's), (Start: 60 @10193 has 4 MA's), (80, 10253), (86, 10274), (112, 10361),

Gene: CaramelLatte_11 Start: 7339, Stop: 7548, Start Num: 76
Candidate Starts for CaramelLatte_11:
(Start: 51 @7276 has 66 MA's), (76, 7339),

Gene: CardboardBox_12 Start: 7464, Stop: 7730, Start Num: 54
Candidate Starts for CardboardBox_12:
(Start: 54 @7464 has 46 MA's), (112, 7650), (113, 7653), (122, 7710),

Gene: Carpal_13 Start: 10107, Stop: 10376, Start Num: 40
Candidate Starts for Carpal_13:
(Start: 40 @10107 has 133 MA's), (71, 10158), (75, 10173), (86, 10206),

Gene: Carsonalex_12 Start: 7314, Stop: 7595, Start Num: 51
Candidate Starts for Carsonalex_12:
(29, 7191), (Start: 51 @7314 has 66 MA's),

Gene: Cashington_10 Start: 7671, Stop: 7928, Start Num: 40
Candidate Starts for Cashington_10:
(Start: 36 @7659 has 1 MA's), (Start: 40 @7671 has 133 MA's), (63, 7692), (112, 7848), (120, 7899),

Gene: Cashline_12 Start: 7862, Stop: 8119, Start Num: 53
Candidate Starts for Cashline_12:
(Start: 36 @7793 has 1 MA's), (Start: 53 @7862 has 29 MA's), (116, 8072), (123, 8111),

Gene: Celaena_10 Start: 7723, Stop: 7986, Start Num: 40
Candidate Starts for Celaena_10:
(Start: 36 @7711 has 1 MA's), (Start: 40 @7723 has 133 MA's), (63, 7750), (69, 7768), (106, 7867), (112, 7906),

Gene: ChamoyPickle_12 Start: 7464, Stop: 7730, Start Num: 54
Candidate Starts for ChamoyPickle_12:
(Start: 54 @7464 has 46 MA's), (112, 7650), (113, 7653), (122, 7710),

Gene: Che9d_12 Start: 6957, Stop: 7229, Start Num: 53
Candidate Starts for Che9d_12:
(Start: 53 @6957 has 29 MA's), (75, 7017), (76, 7020), (86, 7050), (90, 7074), (98, 7104), (114, 7164),

Gene: CheeseTouch_11 Start: 6829, Stop: 7053, Start Num: 54
Candidate Starts for CheeseTouch_11:
(43, 6787), (Start: 54 @6829 has 46 MA's), (74, 6868), (80, 6886), (101, 6943), (105, 6949), (112, 6976), (123, 7039),

Gene: CherryonLim_12 Start: 7780, Stop: 8052, Start Num: 51
Candidate Starts for CherryonLim_12:
(Start: 51 @7780 has 66 MA's), (Start: 60 @7792 has 4 MA's), (63, 7798), (110, 7963), (112, 7969), (116, 7993),

Gene: ChewChew_9 Start: 7242, Stop: 7511, Start Num: 40
Candidate Starts for ChewChew_9:
(Start: 40 @7242 has 133 MA's), (82, 7323), (86, 7341), (104, 7386), (112, 7428),

Gene: Chickaboom_10 Start: 7752, Stop: 8009, Start Num: 41
Candidate Starts for Chickaboom_10:
(5, 7290), (7, 7398), (8, 7443), (20, 7599), (Start: 41 @7752 has 43 MA's), (110, 7920),

Gene: Chicken_11 Start: 8034, Stop: 8288, Start Num: 41
Candidate Starts for Chicken_11:
(1, 7434), (5, 7593), (7, 7701), (22, 7905), (33, 7998), (35, 8016), (Start: 41 @8034 has 43 MA's), (62, 8058), (76, 8106), (109, 8178), (112, 8205),

Gene: ChickenTender_13 Start: 7300, Stop: 7581, Start Num: 51
Candidate Starts for ChickenTender_13:
(29, 7177), (Start: 49 @7297 has 1 MA's), (Start: 51 @7300 has 66 MA's),

Gene: ChiliPepper_10 Start: 7882, Stop: 8139, Start Num: 40
Candidate Starts for ChiliPepper_10:
(Start: 40 @7882 has 133 MA's), (75, 7945), (112, 8059), (119, 8104),

Gene: ChipsNGuac_12 Start: 7464, Stop: 7730, Start Num: 54
Candidate Starts for ChipsNGuac_12:
(Start: 54 @7464 has 46 MA's), (112, 7650), (113, 7653), (122, 7710),

Gene: ChocoMunchkin_11 Start: 7339, Stop: 7548, Start Num: 76
Candidate Starts for ChocoMunchkin_11:
(Start: 51 @7276 has 66 MA's), (76, 7339),

Gene: Cholula_13 Start: 10152, Stop: 10421, Start Num: 40
Candidate Starts for Cholula_13:
(Start: 40 @10152 has 133 MA's), (71, 10203), (75, 10218), (86, 10251),

Gene: Chridison_9 Start: 7262, Stop: 7549, Start Num: 40
Candidate Starts for Chridison_9:
(Start: 40 @7262 has 133 MA's), (86, 7361), (112, 7469),

Gene: Christian_9 Start: 7243, Stop: 7512, Start Num: 40
Candidate Starts for Christian_9:

(Start: 40 @7243 has 133 MA's), (80, 7321), (86, 7342), (112, 7429),

Gene: Clayda5_9 Start: 7425, Stop: 7688, Start Num: 40
Candidate Starts for Clayda5_9:
(31, 7368), (Start: 40 @7425 has 133 MA's), (43, 7440), (63, 7455), (106, 7572), (116, 7632), (121, 7662),

Gene: Cleo_11 Start: 7463, Stop: 7762, Start Num: 51
Candidate Starts for Cleo_11:
(Start: 51 @7463 has 66 MA's), (124, 7742),

Gene: CocoaPuff_10 Start: 7029, Stop: 7301, Start Num: 51
Candidate Starts for CocoaPuff_10:
(Start: 49 @7026 has 1 MA's), (Start: 51 @7029 has 66 MA's), (Start: 60 @7041 has 4 MA's), (63, 7047), (110, 7212), (112, 7218), (116, 7242),

Gene: Coltrane_9 Start: 7425, Stop: 7688, Start Num: 40
Candidate Starts for Coltrane_9:
(31, 7368), (Start: 40 @7425 has 133 MA's), (43, 7440), (63, 7455), (106, 7572), (116, 7632), (121, 7662),

Gene: Colusalem_11 Start: 8083, Stop: 8343, Start Num: 39
Candidate Starts for Colusalem_11:
(Start: 36 @8074 has 1 MA's), (Start: 38 @8080 has 6 MA's), (Start: 39 @8083 has 14 MA's), (Start: 41 @8089 has 43 MA's), (62, 8113), (75, 8158), (92, 8221), (109, 8233),

Gene: Confidence_12 Start: 8009, Stop: 8266, Start Num: 53
Candidate Starts for Confidence_12:
(Start: 53 @8009 has 29 MA's), (116, 8219), (123, 8258),

Gene: Coral_11 Start: 8080, Stop: 8343, Start Num: 38
Candidate Starts for Coral_11:
(Start: 36 @8074 has 1 MA's), (Start: 38 @8080 has 6 MA's), (Start: 39 @8083 has 14 MA's), (Start: 41 @8089 has 43 MA's), (62, 8113), (75, 8158), (92, 8221), (109, 8233),

Gene: Cote_12 Start: 8241, Stop: 8504, Start Num: 38
Candidate Starts for Cote_12:
(Start: 36 @8235 has 1 MA's), (Start: 38 @8241 has 6 MA's), (Start: 39 @8244 has 14 MA's), (Start: 41 @8250 has 43 MA's), (62, 8274), (75, 8319), (92, 8382), (109, 8394),

Gene: Cozz_11 Start: 7258, Stop: 7539, Start Num: 51
Candidate Starts for Cozz_11:
(29, 7135), (Start: 51 @7258 has 66 MA's),

Gene: Cracklewink_17 Start: 11835, Stop: 12083, Start Num: 72
Candidate Starts for Cracklewink_17:
(52, 11778), (Start: 72 @11835 has 6 MA's), (100, 11952), (102, 11955), (113, 12000),

Gene: Crater_11 Start: 7129, Stop: 7386, Start Num: 54
Candidate Starts for Crater_11:
(45, 7096), (Start: 54 @7129 has 46 MA's), (86, 7222), (90, 7243), (112, 7315), (113, 7318), (116, 7339), (121, 7369),

Gene: CristinaYang_9 Start: 7243, Stop: 7512, Start Num: 40
Candidate Starts for CristinaYang_9:
(Start: 40 @7243 has 133 MA's), (80, 7321), (86, 7342), (112, 7429),

Gene: CroZenni_10 Start: 7654, Stop: 7911, Start Num: 40
Candidate Starts for CroZenni_10:
(Start: 36 @7642 has 1 MA's), (Start: 40 @7654 has 133 MA's), (63, 7675), (111, 7828), (112, 7831), (115, 7846), (120, 7882),

Gene: CupcakePrincess_10 Start: 7631, Stop: 7951, Start Num: 40
Candidate Starts for CupcakePrincess_10:
(Start: 36 @7619 has 1 MA's), (Start: 40 @7631 has 133 MA's), (63, 7715), (112, 7871), (115, 7886),

Gene: Cygnet_11 Start: 8032, Stop: 8286, Start Num: 41
Candidate Starts for Cygnet_11:
(Start: 41 @8032 has 43 MA's), (92, 8164), (110, 8197), (112, 8203),

Gene: DS6A_14 Start: 10056, Stop: 10361, Start Num: 54
Candidate Starts for DS6A_14:
(Start: 54 @10056 has 46 MA's), (Start: 60 @10074 has 4 MA's), (77, 10134), (81, 10143), (100, 10224), (116, 10302),

Gene: Daiboju_9 Start: 7263, Stop: 7550, Start Num: 40
Candidate Starts for Daiboju_9:
(Start: 40 @7263 has 133 MA's), (82, 7344), (86, 7362), (112, 7470), (125, 7542),

Gene: Damocles_12 Start: 8250, Stop: 8504, Start Num: 41
Candidate Starts for Damocles_12:
(Start: 36 @8235 has 1 MA's), (Start: 38 @8241 has 6 MA's), (Start: 39 @8244 has 14 MA's), (Start: 41 @8250 has 43 MA's), (62, 8274), (75, 8319), (92, 8382), (109, 8394),

Gene: DanHam62_10 Start: 7655, Stop: 7909, Start Num: 41
Candidate Starts for DanHam62_10:
(33, 7619), (Start: 41 @7655 has 43 MA's), (62, 7679), (75, 7724), (80, 7736), (90, 7781), (92, 7787), (109, 7799), (112, 7826),

Gene: Daob_12 Start: 8238, Stop: 8507, Start Num: 36
Candidate Starts for Daob_12:
(Start: 36 @8238 has 1 MA's), (Start: 38 @8244 has 6 MA's), (Start: 39 @8247 has 14 MA's), (Start: 41 @8253 has 43 MA's), (62, 8277), (75, 8322), (92, 8385), (109, 8397),

Gene: Demsculpinboyz_12 Start: 6948, Stop: 7220, Start Num: 53
Candidate Starts for Demsculpinboyz_12:
(Start: 53 @6948 has 29 MA's), (75, 7008), (76, 7011), (86, 7041), (90, 7065), (98, 7095), (114, 7155),

Gene: DickRichards_10 Start: 8148, Stop: 8405, Start Num: 40
Candidate Starts for DickRichards_10:
(Start: 36 @8136 has 1 MA's), (Start: 40 @8148 has 133 MA's), (63, 8169), (111, 8322), (112, 8325), (115, 8340), (120, 8376),

Gene: Dino_13 Start: 10106, Stop: 10375, Start Num: 40
Candidate Starts for Dino_13:
(Start: 40 @10106 has 133 MA's), (71, 10157), (75, 10172), (86, 10205),

Gene: DirtyBubble_10 Start: 7907, Stop: 8170, Start Num: 53
Candidate Starts for DirtyBubble_10:
(Start: 53 @7907 has 29 MA's), (58, 7919), (63, 7934), (106, 8051), (112, 8090), (115, 8105),

Gene: Dismas_10 Start: 7882, Stop: 8139, Start Num: 40
Candidate Starts for Dismas_10:
(Start: 40 @7882 has 133 MA's), (75, 7945), (112, 8059), (119, 8104),

Gene: Doobus_10 Start: 7885, Stop: 8142, Start Num: 40
Candidate Starts for Doobus_10:
(Start: 36 @7873 has 1 MA's), (Start: 40 @7885 has 133 MA's), (63, 7906), (112, 8062), (120, 8113),

Gene: DrRobert_9 Start: 7243, Stop: 7512, Start Num: 40
Candidate Starts for DrRobert_9:
(Start: 40 @7243 has 133 MA's), (86, 7342), (112, 7429),

Gene: Dre3_11 Start: 7410, Stop: 7709, Start Num: 51
Candidate Starts for Dre3_11:
(Start: 51 @7410 has 66 MA's), (124, 7689),

Gene: DreamTeam_9 Start: 7289, Stop: 7579, Start Num: 40
Candidate Starts for DreamTeam_9:
(Start: 40 @7289 has 133 MA's), (86, 7388), (93, 7427), (112, 7496),

Gene: EMsquaredA_12 Start: 8015, Stop: 8272, Start Num: 53
Candidate Starts for EMsquaredA_12:
(Start: 53 @8015 has 29 MA's), (116, 8225), (123, 8264),

Gene: Ecliptus_11 Start: 6857, Stop: 7114, Start Num: 56
Candidate Starts for Ecliptus_11:
(43, 6812), (Start: 56 @6857 has 4 MA's), (86, 6950), (90, 6971), (112, 7043), (113, 7046), (116, 7067), (121, 7097),

Gene: Eden_9 Start: 7514, Stop: 7780, Start Num: 40
Candidate Starts for Eden_9:
(31, 7457), (Start: 40 @7514 has 133 MA's), (63, 7547), (80, 7601), (121, 7754),

Gene: Eesa_11 Start: 8248, Stop: 8502, Start Num: 41
Candidate Starts for Eesa_11:
(3, 7771), (7, 7915), (22, 8119), (33, 8212), (35, 8230), (Start: 41 @8248 has 43 MA's), (62, 8272), (107, 8386), (109, 8392), (112, 8419),

Gene: ElJefes_10 Start: 7506, Stop: 7778, Start Num: 51
Candidate Starts for ElJefes_10:
(Start: 51 @7506 has 66 MA's), (Start: 60 @7518 has 4 MA's), (63, 7524), (110, 7689), (112, 7695), (116, 7719),

Gene: Elinal_12 Start: 7035, Stop: 7307, Start Num: 51
Candidate Starts for Elinal_12:
(Start: 49 @7032 has 1 MA's), (Start: 51 @7035 has 66 MA's), (110, 7218), (112, 7224), (116, 7248),

Gene: Eliott_11 Start: 7257, Stop: 7538, Start Num: 51

Candidate Starts for Eliott_11:
(29, 7134), (Start: 51 @7257 has 66 MA's),

Gene: Emalyn_10 Start: 6986, Stop: 7255, Start Num: 51
Candidate Starts for Emalyn_10:
(Start: 51 @6986 has 66 MA's),

Gene: EnalisNailo_12 Start: 8015, Stop: 8272, Start Num: 53
Candidate Starts for EnalisNailo_12:
(Start: 53 @8015 has 29 MA's), (116, 8225), (123, 8264),

Gene: EstebanJulior_9 Start: 7287, Stop: 7556, Start Num: 40
Candidate Starts for EstebanJulior_9:
(Start: 40 @7287 has 133 MA's), (86, 7386), (88, 7392), (112, 7473),

Gene: Eula_10 Start: 7652, Stop: 7912, Start Num: 40
Candidate Starts for Eula_10:
(Start: 36 @7640 has 1 MA's), (Start: 40 @7652 has 133 MA's), (63, 7676), (112, 7832), (115, 7847),

Gene: Eunoia_9 Start: 7261, Stop: 7548, Start Num: 40
Candidate Starts for Eunoia_9:
(Start: 40 @7261 has 133 MA's), (86, 7360), (112, 7468), (125, 7540),

Gene: Ezurina_11 Start: 7029, Stop: 7298, Start Num: 54
Candidate Starts for Ezurina_11:
(Start: 54 @7029 has 46 MA's), (97, 7170), (112, 7218),

Gene: Faiyaz_17 Start: 11749, Stop: 11997, Start Num: 72
Candidate Starts for Faiyaz_17:
(52, 11692), (Start: 72 @11749 has 6 MA's), (83, 11791), (100, 11866), (113, 11914), (121, 11965), (125, 11983),

Gene: Feastonyeet_10 Start: 7054, Stop: 7326, Start Num: 51
Candidate Starts for Feastonyeet_10:
(Start: 49 @7051 has 1 MA's), (Start: 51 @7054 has 66 MA's), (110, 7237), (112, 7243), (116, 7267),

Gene: Finalfrontier_11 Start: 8160, Stop: 8423, Start Num: 39
Candidate Starts for Finalfrontier_11:
(Start: 36 @8151 has 1 MA's), (Start: 39 @8160 has 14 MA's), (63, 8187), (112, 8343), (115, 8358),

Gene: Fingolfin_10 Start: 7656, Stop: 7910, Start Num: 41
Candidate Starts for Fingolfin_10:
(10, 7398), (13, 7422), (15, 7458), (20, 7506), (33, 7620), (Start: 41 @7656 has 43 MA's), (62, 7680), (76, 7728), (80, 7737), (90, 7782), (109, 7800), (112, 7827),

Gene: FlameThrower_10 Start: 7611, Stop: 7874, Start Num: 40
Candidate Starts for FlameThrower_10:
(Start: 36 @7599 has 1 MA's), (Start: 40 @7611 has 133 MA's), (63, 7638), (69, 7656), (106, 7755), (112, 7794),

Gene: Floral_12 Start: 8015, Stop: 8272, Start Num: 53
Candidate Starts for Floral_12:
(Start: 53 @8015 has 29 MA's), (116, 8225), (123, 8264),

Gene: Fluke_13 Start: 10148, Stop: 10417, Start Num: 40
Candidate Starts for Fluke_13:
(Start: 40 @10148 has 133 MA's), (71, 10199), (75, 10214), (86, 10247), (112, 10334),

Gene: Franklin22_9 Start: 7495, Stop: 7761, Start Num: 40
Candidate Starts for Franklin22_9:
(Start: 40 @7495 has 133 MA's), (63, 7528), (112, 7681), (121, 7735),

Gene: Fribs8_12 Start: 7976, Stop: 8275, Start Num: 51
Candidate Starts for Fribs8_12:
(Start: 51 @7976 has 66 MA's), (86, 8078), (112, 8189), (122, 8249), (123, 8252), (124, 8255),

Gene: Frickyeah_11 Start: 6824, Stop: 7048, Start Num: 54
Candidate Starts for Frickyeah_11:
(18, 6587), (19, 6602), (28, 6686), (43, 6782), (Start: 54 @6824 has 46 MA's), (74, 6863), (80, 6881), (101, 6938), (105, 6944), (112, 6971), (123, 7034),

Gene: Fryberger_43 Start: 16293, Stop: 16577, Start Num: 47
Candidate Starts for Fryberger_43:
(46, 16287), (Start: 47 @16293 has 6 MA's), (70, 16350), (79, 16377), (105, 16458), (107, 16464),

Gene: GTE2_09 Start: 6936, Stop: 7208, Start Num: 51
Candidate Starts for GTE2_09:
(Start: 51 @6936 has 66 MA's), (76, 6999),

Gene: Gack_9 Start: 7565, Stop: 7828, Start Num: 40
Candidate Starts for Gack_9:
(31, 7508), (Start: 40 @7565 has 133 MA's), (63, 7595), (70, 7619), (112, 7748), (121, 7802),

Gene: Gaia_8 Start: 7366, Stop: 7629, Start Num: 54
Candidate Starts for Gaia_8:
(Start: 54 @7366 has 46 MA's), (81, 7450), (85, 7459), (89, 7483), (99, 7504), (100, 7507), (109, 7531), (116, 7582), (120, 7609),

Gene: Galaxy_11 Start: 8078, Stop: 8335, Start Num: 41
Candidate Starts for Galaxy_11:
(35, 8060), (Start: 41 @8078 has 43 MA's), (111, 8249),

Gene: Gerri43_12 Start: 7464, Stop: 7730, Start Num: 54
Candidate Starts for Gerri43_12:
(Start: 54 @7464 has 46 MA's), (112, 7650), (113, 7653), (122, 7710),

Gene: Getalong_11 Start: 6824, Stop: 7048, Start Num: 54
Candidate Starts for Getalong_11:
(18, 6587), (19, 6602), (28, 6686), (Start: 54 @6824 has 46 MA's), (74, 6863), (80, 6881), (101, 6938), (105, 6944), (112, 6971), (123, 7034),

Gene: GiKK_14 Start: 7577, Stop: 7846, Start Num: 51
Candidate Starts for GiKK_14:
(Start: 51 @7577 has 66 MA's), (63, 7592), (75, 7634), (121, 7817),

Gene: Gibbous_11 Start: 7410, Stop: 7709, Start Num: 51

Candidate Starts for Gibbous_11:
(Start: 51 @7410 has 66 MA's), (124, 7689),

Gene: Gibbzilla_11 Start: 7535, Stop: 7786, Start Num: 56
Candidate Starts for Gibbzilla_11:
(27, 7430), (30, 7466), (Start: 56 @7535 has 4 MA's), (59, 7544), (109, 7676),

Gene: Gisselle_9 Start: 7289, Stop: 7579, Start Num: 40
Candidate Starts for Gisselle_9:
(Start: 40 @7289 has 133 MA's), (86, 7388), (93, 7427), (112, 7496),

Gene: Glenn_13 Start: 10158, Stop: 10427, Start Num: 40
Candidate Starts for Glenn_13:
(Start: 40 @10158 has 133 MA's), (71, 10209), (75, 10224), (86, 10257),

Gene: Glotell_10 Start: 7655, Stop: 7909, Start Num: 41
Candidate Starts for Glotell_10:
(10, 7397), (13, 7421), (15, 7457), (20, 7505), (33, 7619), (Start: 41 @7655 has 43 MA's), (62, 7679), (76, 7727), (80, 7736), (90, 7781), (92, 7787), (109, 7799), (112, 7826),

Gene: GoldHunter_11 Start: 7258, Stop: 7539, Start Num: 51
Candidate Starts for GoldHunter_11:
(Start: 51 @7258 has 66 MA's),

Gene: GramZayde_11 Start: 8089, Stop: 8343, Start Num: 41
Candidate Starts for GramZayde_11:
(Start: 36 @8074 has 1 MA's), (Start: 38 @8080 has 6 MA's), (Start: 39 @8083 has 14 MA's), (Start: 41 @8089 has 43 MA's), (62, 8113), (75, 8158), (92, 8221), (109, 8233),

Gene: Gravel_12 Start: 8244, Stop: 8498, Start Num: 41
Candidate Starts for Gravel_12:
(22, 8115), (33, 8208), (35, 8226), (Start: 41 @8244 has 43 MA's), (62, 8268), (107, 8382), (109, 8388), (113, 8418),

Gene: Graynor_13 Start: 10164, Stop: 10433, Start Num: 40
Candidate Starts for Graynor_13:
(Start: 36 @10152 has 1 MA's), (Start: 40 @10164 has 133 MA's), (Start: 60 @10182 has 4 MA's), (71, 10215), (86, 10263), (104, 10308), (112, 10350),

Gene: GrimEater_10 Start: 6522, Stop: 6794, Start Num: 60
Candidate Starts for GrimEater_10:
(43, 6459), (Start: 60 @6522 has 4 MA's), (73, 6558), (84, 6600),

Gene: Guey18_48 Start: 17486, Stop: 17770, Start Num: 47
Candidate Starts for Guey18_48:
(46, 17480), (Start: 47 @17486 has 6 MA's), (70, 17543), (79, 17570), (105, 17651), (107, 17657),

Gene: HamCheese_10 Start: 7655, Stop: 7909, Start Num: 41
Candidate Starts for HamCheese_10:
(33, 7619), (Start: 41 @7655 has 43 MA's), (62, 7679), (75, 7724), (80, 7736), (90, 7781), (92, 7787), (109, 7799), (112, 7826),

Gene: HannahPhantana_12 Start: 8247, Stop: 8507, Start Num: 39

Candidate Starts for HannahPhantana_12:
(Start: 36 @8238 has 1 MA's), (Start: 38 @8244 has 6 MA's), (Start: 39 @8247 has 14 MA's), (Start: 41 @8253 has 43 MA's), (62, 8277), (75, 8322), (92, 8385), (109, 8397),

Gene: HeadNerd_9 Start: 7245, Stop: 7514, Start Num: 40
Candidate Starts for HeadNerd_9:
(Start: 40 @7245 has 133 MA's), (Start: 60 @7263 has 4 MA's), (86, 7344), (104, 7389), (112, 7431),

Gene: Herb_9 Start: 7263, Stop: 7550, Start Num: 40
Candidate Starts for Herb_9:
(Start: 40 @7263 has 133 MA's), (82, 7344), (86, 7362), (112, 7470), (125, 7542),

Gene: Hexbug_13 Start: 8263, Stop: 8532, Start Num: 51
Candidate Starts for Hexbug_13:
(Start: 51 @8263 has 66 MA's), (75, 8320),

Gene: Hilltopfarm_17 Start: 11779, Stop: 12027, Start Num: 72
Candidate Starts for Hilltopfarm_17:
(52, 11722), (Start: 72 @11779 has 6 MA's), (83, 11821), (100, 11896), (113, 11944), (121, 11995), (125, 12013),

Gene: HippoPololi_13 Start: 8062, Stop: 8361, Start Num: 51
Candidate Starts for HippoPololi_13:
(Start: 51 @8062 has 66 MA's), (Start: 60 @8083 has 4 MA's), (116, 8299), (124, 8341),

Gene: Holliday_11 Start: 6829, Stop: 7053, Start Num: 54
Candidate Starts for Holliday_11:
(43, 6787), (Start: 54 @6829 has 46 MA's), (74, 6868), (80, 6886), (101, 6943), (105, 6949), (112, 6976), (123, 7039),

Gene: Horseradish_12 Start: 7139, Stop: 7417, Start Num: 51
Candidate Starts for Horseradish_12:
(Start: 51 @7139 has 66 MA's), (76, 7208), (94, 7280),

Gene: Horus_11 Start: 6824, Stop: 7048, Start Num: 54
Candidate Starts for Horus_11:
(18, 6587), (19, 6602), (28, 6686), (43, 6782), (Start: 54 @6824 has 46 MA's), (74, 6863), (80, 6881), (101, 6938), (105, 6944), (112, 6971), (123, 7034),

Gene: Huckleberry_9 Start: 7245, Stop: 7514, Start Num: 40
Candidate Starts for Huckleberry_9:
(Start: 40 @7245 has 133 MA's), (Start: 60 @7263 has 4 MA's), (86, 7344), (104, 7389), (112, 7431),

Gene: HunterDalle_9 Start: 7261, Stop: 7548, Start Num: 40
Candidate Starts for HunterDalle_9:
(Start: 40 @7261 has 133 MA's), (86, 7360), (112, 7468),

Gene: Huntingdon_13 Start: 10141, Stop: 10431, Start Num: 40
Candidate Starts for Huntingdon_13:
(4, 9655), (6, 9742), (11, 9880), (Start: 40 @10141 has 133 MA's), (63, 10165), (86, 10240), (91, 10267), (112, 10348),

Gene: Icarian_11 Start: 7889, Stop: 8152, Start Num: 53

Candidate Starts for Icarian_11:
(Start: 53 @7889 has 29 MA's), (63, 7916), (112, 8072), (115, 8087),

Gene: Immaculata_13 Start: 10152, Stop: 10421, Start Num: 40
Candidate Starts for Immaculata_13:
(Start: 40 @10152 has 133 MA's), (71, 10203), (75, 10218), (86, 10251),

Gene: InLimbo_11 Start: 6300, Stop: 6557, Start Num: 54
Candidate Starts for InLimbo_11:
(45, 6267), (Start: 54 @6300 has 46 MA's), (112, 6486), (116, 6510),

Gene: Jabb_10 Start: 7631, Stop: 7951, Start Num: 40
Candidate Starts for Jabb_10:
(Start: 36 @7619 has 1 MA's), (Start: 40 @7631 has 133 MA's), (63, 7715), (112, 7871), (115, 7886),

Gene: Jabbawokkie_13 Start: 7471, Stop: 7743, Start Num: 53
Candidate Starts for Jabbawokkie_13:
(Start: 53 @7471 has 29 MA's), (75, 7531), (76, 7534), (86, 7564), (90, 7588), (98, 7618), (114, 7678),

Gene: Jablanski_12 Start: 7862, Stop: 8119, Start Num: 53
Candidate Starts for Jablanski_12:
(Start: 53 @7862 has 29 MA's), (116, 8072), (123, 8111),

Gene: Jamun_11 Start: 8419, Stop: 8676, Start Num: 41
Candidate Starts for Jamun_11:
(8, 8110), (20, 8266), (Start: 41 @8419 has 43 MA's), (110, 8587),

Gene: Jamzy_14 Start: 7587, Stop: 7856, Start Num: 51
Candidate Starts for Jamzy_14:
(Start: 51 @7587 has 66 MA's), (63, 7602), (75, 7644), (121, 7827),

Gene: Jankie_10 Start: 6521, Stop: 6793, Start Num: 60
Candidate Starts for Jankie_10:
(43, 6458), (Start: 60 @6521 has 4 MA's), (73, 6557), (84, 6599),

Gene: Jerole_12 Start: 8244, Stop: 8504, Start Num: 39
Candidate Starts for Jerole_12:
(Start: 36 @8235 has 1 MA's), (Start: 38 @8241 has 6 MA's), (Start: 39 @8244 has 14 MA's), (Start: 41 @8250 has 43 MA's), (62, 8274), (75, 8319), (92, 8382), (109, 8394),

Gene: Johnathan_10 Start: 7654, Stop: 7911, Start Num: 40
Candidate Starts for Johnathan_10:
(Start: 36 @7642 has 1 MA's), (Start: 40 @7654 has 133 MA's), (63, 7675), (112, 7831), (120, 7882),

Gene: Jovita_10 Start: 7753, Stop: 8013, Start Num: 40
Candidate Starts for Jovita_10:
(Start: 36 @7741 has 1 MA's), (Start: 40 @7753 has 133 MA's), (63, 7777), (112, 7933), (115, 7948),

Gene: Juicebox_12 Start: 8597, Stop: 8833, Start Num: 56
Candidate Starts for Juicebox_12:
(Start: 56 @8597 has 4 MA's), (65, 8615), (79, 8660), (112, 8753),

Gene: Jumboset_13 Start: 10101, Stop: 10370, Start Num: 40

Candidate Starts for Jumboset_13:
(Start: 40 @10101 has 133 MA's), (71, 10152), (75, 10167), (86, 10200),

Gene: Juno112_10 Start: 7656, Stop: 7910, Start Num: 41
Candidate Starts for Juno112_10:
(10, 7398), (13, 7422), (15, 7458), (20, 7506), (33, 7620), (Start: 41 @7656 has 43 MA's), (62, 7680), (76, 7728), (80, 7737), (90, 7782), (109, 7800), (112, 7827),

Gene: KHumphrey_10 Start: 7655, Stop: 7909, Start Num: 41
Candidate Starts for KHumphrey_10:
(10, 7397), (13, 7421), (15, 7457), (20, 7505), (33, 7619), (Start: 41 @7655 has 43 MA's), (62, 7679), (76, 7727), (80, 7736), (90, 7781), (92, 7787), (109, 7799), (112, 7826),

Gene: Kalizoi_13 Start: 10100, Stop: 10369, Start Num: 40
Candidate Starts for Kalizoi_13:
(Start: 40 @10100 has 133 MA's), (71, 10151), (75, 10166), (86, 10199),

Gene: Kamaru_11 Start: 6829, Stop: 7053, Start Num: 54
Candidate Starts for Kamaru_11:
(43, 6787), (Start: 54 @6829 has 46 MA's), (74, 6868), (80, 6886), (101, 6943), (105, 6949), (112, 6976), (123, 7039),

Gene: Kamdara_10 Start: 7881, Stop: 8138, Start Num: 40
Candidate Starts for Kamdara_10:
(Start: 40 @7881 has 133 MA's), (75, 7944), (112, 8058), (119, 8103),

Gene: Katzastrophic_10 Start: 7786, Stop: 8049, Start Num: 40
Candidate Starts for Katzastrophic_10:
(Start: 36 @7774 has 1 MA's), (Start: 40 @7786 has 133 MA's), (63, 7813), (69, 7831), (106, 7930), (112, 7969),

Gene: KayGee_11 Start: 7035, Stop: 7307, Start Num: 51
Candidate Starts for KayGee_11:
(Start: 49 @7032 has 1 MA's), (Start: 51 @7035 has 66 MA's), (110, 7218), (112, 7224), (116, 7248),

Gene: Keelan_41 Start: 16268, Stop: 16552, Start Num: 47
Candidate Starts for Keelan_41:
(Start: 47 @16268 has 6 MA's), (70, 16325), (79, 16352), (105, 16433), (107, 16439),

Gene: KendraB23_12 Start: 8245, Stop: 8499, Start Num: 41
Candidate Starts for KendraB23_12:
(22, 8116), (24, 8131), (35, 8227), (Start: 41 @8245 has 43 MA's), (62, 8269), (107, 8383), (109, 8389), (113, 8419),

Gene: Kenna_11 Start: 6824, Stop: 7048, Start Num: 54
Candidate Starts for Kenna_11:
(19, 6602), (28, 6686), (43, 6782), (Start: 54 @6824 has 46 MA's), (74, 6863), (80, 6881), (101, 6938), (105, 6944), (112, 6971),

Gene: Kenzers_10 Start: 7668, Stop: 7928, Start Num: 40
Candidate Starts for Kenzers_10:
(Start: 36 @7656 has 1 MA's), (Start: 40 @7668 has 133 MA's), (63, 7692), (112, 7848), (115, 7863), (120, 7899),

Gene: Kepler_11 Start: 8079, Stop: 8342, Start Num: 38
Candidate Starts for Kepler_11:
(Start: 36 @8073 has 1 MA's), (Start: 38 @8079 has 6 MA's), (Start: 39 @8082 has 14 MA's), (Start: 41 @8088 has 43 MA's), (75, 8157), (92, 8220), (109, 8232),

Gene: Kieran_10 Start: 7885, Stop: 8142, Start Num: 40
Candidate Starts for Kieran_10:
(Start: 40 @7885 has 133 MA's), (75, 7948), (112, 8062), (119, 8107),

Gene: KingBob_9 Start: 7263, Stop: 7550, Start Num: 40
Candidate Starts for KingBob_9:
(Start: 40 @7263 has 133 MA's), (82, 7344), (86, 7362), (112, 7470), (125, 7542),

Gene: Kittykat_9 Start: 7286, Stop: 7555, Start Num: 40
Candidate Starts for Kittykat_9:
(Start: 40 @7286 has 133 MA's), (86, 7385), (104, 7430), (112, 7472), (117, 7499),

Gene: Korra_13 Start: 10106, Stop: 10375, Start Num: 40
Candidate Starts for Korra_13:
(Start: 40 @10106 has 133 MA's), (71, 10157), (75, 10172), (86, 10205),

Gene: Kuleana_11 Start: 8039, Stop: 8302, Start Num: 38
Candidate Starts for Kuleana_11:
(Start: 36 @8033 has 1 MA's), (Start: 38 @8039 has 6 MA's), (Start: 41 @8048 has 43 MA's), (Start: 60 @8069 has 4 MA's), (62, 8072), (76, 8120), (92, 8180), (109, 8192), (112, 8219),

Gene: Kuwabara_11 Start: 7129, Stop: 7386, Start Num: 54
Candidate Starts for Kuwabara_11:
(45, 7096), (Start: 54 @7129 has 46 MA's), (86, 7222), (90, 7243), (112, 7315), (113, 7318), (116, 7339), (121, 7369),

Gene: Lahqtemish_10 Start: 7738, Stop: 8001, Start Num: 39
Candidate Starts for Lahqtemish_10:
(Start: 36 @7729 has 1 MA's), (Start: 39 @7738 has 14 MA's), (75, 7807),

Gene: Laphuphu24k_10 Start: 7655, Stop: 7909, Start Num: 41
Candidate Starts for Laphuphu24k_10:
(33, 7619), (Start: 41 @7655 has 43 MA's), (62, 7679), (75, 7724), (80, 7736), (90, 7781), (92, 7787), (109, 7799), (112, 7826),

Gene: Lasagna_9 Start: 7243, Stop: 7512, Start Num: 40
Candidate Starts for Lasagna_9:
(Start: 40 @7243 has 133 MA's), (80, 7321), (86, 7342), (112, 7429),

Gene: LastNadiia_15 Start: 9753, Stop: 10022, Start Num: 54
Candidate Starts for LastNadiia_15:
(Start: 54 @9753 has 46 MA's), (112, 9942), (113, 9945),

Gene: Lauer_10 Start: 7057, Stop: 7356, Start Num: 44
Candidate Starts for Lauer_10:
(16, 6820), (21, 6886), (23, 6907), (26, 6922), (29, 6961), (34, 7000), (35, 7015), (37, 7024), (Start: 44 @7057 has 1 MA's), (Start: 49 @7081 has 1 MA's), (Start: 51 @7084 has 66 MA's), (110, 7267), (112,

7273), (116, 7297),

Gene: Lennox_9 Start: 7243, Stop: 7512, Start Num: 40
Candidate Starts for Lennox_9:
(Start: 40 @7243 has 133 MA's), (86, 7342), (104, 7387), (112, 7429),

Gene: Leona_10 Start: 7706, Stop: 7960, Start Num: 41
Candidate Starts for Leona_10:
(10, 7448), (13, 7472), (15, 7508), (20, 7556), (32, 7664), (33, 7670), (Start: 41 @7706 has 43 MA's), (62, 7730), (76, 7778), (80, 7787), (90, 7832), (109, 7850), (112, 7877),

Gene: Leroy_11 Start: 6825, Stop: 7049, Start Num: 54
Candidate Starts for Leroy_11:
(18, 6588), (19, 6603), (28, 6687), (43, 6783), (Start: 54 @6825 has 46 MA's), (74, 6864), (80, 6882), (101, 6939), (105, 6945), (112, 6972), (123, 7035),

Gene: LilSpotty_10 Start: 6830, Stop: 7105, Start Num: 54
Candidate Starts for LilSpotty_10:
(43, 6785), (Start: 54 @6830 has 46 MA's), (58, 6839), (100, 6968), (112, 7019), (116, 7043),

Gene: LilStuart_9 Start: 7243, Stop: 7512, Start Num: 40
Candidate Starts for LilStuart_9:
(Start: 40 @7243 has 133 MA's), (80, 7321), (86, 7342), (112, 7429),

Gene: Lilas_12 Start: 8015, Stop: 8272, Start Num: 53
Candidate Starts for Lilas_12:
(Start: 53 @8015 has 29 MA's), (116, 8225), (123, 8264),

Gene: Lilo27_10 Start: 7631, Stop: 7888, Start Num: 40
Candidate Starts for Lilo27_10:
(Start: 36 @7619 has 1 MA's), (Start: 40 @7631 has 133 MA's), (63, 7652), (112, 7808), (115, 7823), (120, 7859),

Gene: LimaBean_10 Start: 7654, Stop: 7911, Start Num: 40
Candidate Starts for LimaBean_10:
(Start: 36 @7642 has 1 MA's), (Start: 40 @7654 has 133 MA's), (63, 7675), (112, 7831), (120, 7882),

Gene: LitninMcQueen_11 Start: 6829, Stop: 7053, Start Num: 54
Candidate Starts for LitninMcQueen_11:
(43, 6787), (Start: 54 @6829 has 46 MA's), (74, 6868), (80, 6886), (101, 6943), (105, 6949), (112, 6976), (123, 7039),

Gene: Litotes_13 Start: 10128, Stop: 10397, Start Num: 40
Candidate Starts for Litotes_13:
(Start: 36 @10116 has 1 MA's), (Start: 40 @10128 has 133 MA's), (Start: 60 @10146 has 4 MA's), (71, 10179), (86, 10227), (104, 10272), (112, 10314),

Gene: LittleTokyo_11 Start: 7988, Stop: 8242, Start Num: 41
Candidate Starts for LittleTokyo_11:
(Start: 41 @7988 has 43 MA's), (75, 8057), (110, 8153), (112, 8159),

Gene: LonelyBoi_12 Start: 7862, Stop: 8119, Start Num: 53
Candidate Starts for LonelyBoi_12:

(Start: 53 @7862 has 29 MA's), (116, 8072), (123, 8111),

Gene: Loviatar_10 Start: 7911, Stop: 8231, Start Num: 40
Candidate Starts for Loviatar_10:
(Start: 40 @7911 has 133 MA's), (Start: 42 @7923 has 1 MA's), (75, 8037), (112, 8151),

Gene: Lucky10_10 Start: 6338, Stop: 6595, Start Num: 54
Candidate Starts for Lucky10_10:
(45, 6305), (Start: 54 @6338 has 46 MA's), (112, 6524), (116, 6548),

Gene: Lucy_9 Start: 7234, Stop: 7503, Start Num: 40
Candidate Starts for Lucy_9:
(Start: 40 @7234 has 133 MA's), (Start: 60 @7252 has 4 MA's), (86, 7333), (104, 7378), (112, 7420),

Gene: Lunar_12 Start: 8244, Stop: 8504, Start Num: 39
Candidate Starts for Lunar_12:
(Start: 36 @8235 has 1 MA's), (Start: 38 @8241 has 6 MA's), (Start: 39 @8244 has 14 MA's), (Start: 41 @8250 has 43 MA's), (62, 8274), (75, 8319), (92, 8382), (109, 8394),

Gene: Lutum_11 Start: 6824, Stop: 7048, Start Num: 54
Candidate Starts for Lutum_11:
(19, 6602), (28, 6686), (43, 6782), (Start: 54 @6824 has 46 MA's), (74, 6863), (80, 6881), (101, 6938), (105, 6944), (112, 6971),

Gene: Lynlen_10 Start: 7668, Stop: 7928, Start Num: 40
Candidate Starts for Lynlen_10:
(Start: 36 @7656 has 1 MA's), (Start: 40 @7668 has 133 MA's), (63, 7692), (112, 7848), (115, 7863), (120, 7899),

Gene: MAnor_11 Start: 7025, Stop: 7297, Start Num: 51
Candidate Starts for MAnor_11:
(Start: 51 @7025 has 66 MA's), (Start: 60 @7037 has 4 MA's), (63, 7043), (110, 7208), (112, 7214), (116, 7238),

Gene: MScarn_13 Start: 7235, Stop: 7504, Start Num: 51
Candidate Starts for MScarn_13:
(Start: 51 @7235 has 66 MA's), (76, 7295), (94, 7367),

Gene: MaVan_13 Start: 8163, Stop: 8462, Start Num: 51
Candidate Starts for MaVan_13:
(Start: 49 @8160 has 1 MA's), (Start: 51 @8163 has 66 MA's), (86, 8265), (103, 8334), (112, 8376), (122, 8436), (123, 8439), (124, 8442),

Gene: Makima_13 Start: 8837, Stop: 9106, Start Num: 54
Candidate Starts for Makima_13:
(Start: 54 @8837 has 46 MA's), (112, 9026), (113, 9029),

Gene: Makoto_9 Start: 7243, Stop: 7512, Start Num: 40
Candidate Starts for Makoto_9:
(Start: 40 @7243 has 133 MA's), (86, 7342), (104, 7387), (112, 7429),

Gene: Malisha_11 Start: 7874, Stop: 8098, Start Num: 54
Candidate Starts for Malisha_11:

(Start: 54 @7874 has 46 MA's), (80, 7931), (101, 7988), (105, 7994), (112, 8021), (123, 8084),

Gene: Malvina_13 Start: 8086, Stop: 8364, Start Num: 60
Candidate Starts for Malvina_13:
(Start: 51 @8065 has 66 MA's), (Start: 60 @8086 has 4 MA's), (116, 8302), (124, 8344),

Gene: MamaPearl_9 Start: 7287, Stop: 7556, Start Num: 40
Candidate Starts for MamaPearl_9:
(Start: 40 @7287 has 133 MA's), (86, 7386), (88, 7392), (112, 7473),

Gene: Margaret_14 Start: 7972, Stop: 8241, Start Num: 51
Candidate Starts for Margaret_14:
(Start: 51 @7972 has 66 MA's), (63, 7987), (75, 8029),

Gene: Maria1952_9 Start: 7263, Stop: 7550, Start Num: 40
Candidate Starts for Maria1952_9:
(Start: 40 @7263 has 133 MA's), (82, 7344), (86, 7362), (112, 7470), (125, 7542),

Gene: Marteena_12 Start: 8015, Stop: 8272, Start Num: 53
Candidate Starts for Marteena_12:
(Start: 53 @8015 has 29 MA's), (116, 8225), (123, 8264),

Gene: Mayweather_12 Start: 7658, Stop: 7930, Start Num: 51
Candidate Starts for Mayweather_12:
(Start: 51 @7658 has 66 MA's), (Start: 60 @7670 has 4 MA's), (63, 7676), (110, 7841), (112, 7847), (116, 7871),

Gene: McDazzle_10 Start: 7500, Stop: 7772, Start Num: 51
Candidate Starts for McDazzle_10:
(Start: 51 @7500 has 66 MA's), (Start: 60 @7512 has 4 MA's), (63, 7518), (110, 7683), (112, 7689), (116, 7713),

Gene: MeganNoll_13 Start: 10158, Stop: 10427, Start Num: 40
Candidate Starts for MeganNoll_13:
(Start: 40 @10158 has 133 MA's), (71, 10209), (75, 10224), (86, 10257),

Gene: Melons_12 Start: 8241, Stop: 8504, Start Num: 38
Candidate Starts for Melons_12:
(Start: 36 @8235 has 1 MA's), (Start: 38 @8241 has 6 MA's), (Start: 39 @8244 has 14 MA's), (Start: 41 @8250 has 43 MA's), (62, 8274), (75, 8319), (92, 8382), (109, 8394),

Gene: Milomuff_11 Start: 8040, Stop: 8297, Start Num: 40
Candidate Starts for Milomuff_11:
(Start: 36 @8028 has 1 MA's), (Start: 40 @8040 has 133 MA's), (63, 8061), (112, 8217), (115, 8232), (120, 8268),

Gene: Mireles_12 Start: 7233, Stop: 7502, Start Num: 54
Candidate Starts for Mireles_12:
(Start: 54 @7233 has 46 MA's), (112, 7422), (113, 7425),

Gene: Misaeng_13 Start: 10206, Stop: 10496, Start Num: 40
Candidate Starts for Misaeng_13:

(11, 9945), (Start: 40 @10206 has 133 MA's), (63, 10230), (75, 10272), (86, 10305), (91, 10332), (112, 10413),

Gene: Moki_9 Start: 7245, Stop: 7514, Start Num: 40
Candidate Starts for Moki_9:
(Start: 40 @7245 has 133 MA's), (Start: 60 @7263 has 4 MA's), (86, 7344), (104, 7389), (112, 7431),

Gene: Morkie_10 Start: 6300, Stop: 6557, Start Num: 54
Candidate Starts for Morkie_10:
(45, 6267), (Start: 54 @6300 has 46 MA's), (112, 6486), (116, 6510),

Gene: MortyNRick_11 Start: 7129, Stop: 7386, Start Num: 54
Candidate Starts for MortyNRick_11:
(45, 7096), (Start: 54 @7129 has 46 MA's), (95, 7264), (110, 7309), (112, 7315), (113, 7318), (116, 7339),

Gene: MrBoss_13 Start: 10128, Stop: 10397, Start Num: 40
Candidate Starts for MrBoss_13:
(Start: 36 @10116 has 1 MA's), (Start: 40 @10128 has 133 MA's), (Start: 60 @10146 has 4 MA's), (71, 10179), (86, 10227), (104, 10272), (112, 10314),

Gene: MrGloopy_13 Start: 10091, Stop: 10360, Start Num: 40
Candidate Starts for MrGloopy_13:
(Start: 40 @10091 has 133 MA's), (71, 10142), (75, 10157), (86, 10190),

Gene: MsUbiquitous_10 Start: 7631, Stop: 7951, Start Num: 40
Candidate Starts for MsUbiquitous_10:
(Start: 36 @7619 has 1 MA's), (Start: 40 @7631 has 133 MA's), (63, 7715), (112, 7871), (115, 7886),

Gene: MunkgeeRoachy_11 Start: 7305, Stop: 7586, Start Num: 51
Candidate Starts for MunkgeeRoachy_11:
(29, 7182), (Start: 51 @7305 has 66 MA's),

Gene: Nancia_9 Start: 7243, Stop: 7512, Start Num: 40
Candidate Starts for Nancia_9:
(Start: 40 @7243 has 133 MA's), (80, 7321), (86, 7342), (112, 7429),

Gene: Nebkiss_8 Start: 7367, Stop: 7630, Start Num: 54
Candidate Starts for Nebkiss_8:
(Start: 54 @7367 has 46 MA's), (81, 7451), (85, 7460), (89, 7484), (99, 7505), (100, 7508), (109, 7532), (116, 7583), (120, 7610),

Gene: Neroxid_10 Start: 6319, Stop: 6558, Start Num: 57
Candidate Starts for Neroxid_10:
(46, 6292), (Start: 47 @6298 has 6 MA's), (57, 6319), (61, 6331), (64, 6337), (71, 6364), (82, 6394), (91, 6439), (108, 6451), (116, 6505),

Gene: Neuvillette_12 Start: 7464, Stop: 7730, Start Num: 54
Candidate Starts for Neuvillette_12:
(Start: 54 @7464 has 46 MA's), (112, 7650), (113, 7653), (122, 7710),

Gene: Nibbles_13 Start: 8163, Stop: 8462, Start Num: 51
Candidate Starts for Nibbles_13:

(Start: 49 @8160 has 1 MA's), (Start: 51 @8163 has 66 MA's), (86, 8265), (103, 8334), (112, 8376), (122, 8436), (123, 8439), (124, 8442),

Gene: Niblet_11 Start: 8034, Stop: 8288, Start Num: 41
Candidate Starts for Niblet_11:
(1, 7434), (5, 7593), (7, 7701), (22, 7905), (33, 7998), (35, 8016), (Start: 41 @8034 has 43 MA's), (62, 8058), (76, 8106), (109, 8178), (112, 8205),

Gene: Nicky22_11 Start: 8102, Stop: 8359, Start Num: 40
Candidate Starts for Nicky22_11:
(Start: 36 @8090 has 1 MA's), (Start: 40 @8102 has 133 MA's), (63, 8123), (112, 8279), (115, 8294), (120, 8330),

Gene: Nina_12 Start: 8291, Stop: 8572, Start Num: 51
Candidate Starts for Nina_12:
(29, 8168), (Start: 51 @8291 has 66 MA's),

Gene: Nodigi_13 Start: 8256, Stop: 8525, Start Num: 51
Candidate Starts for Nodigi_13:
(Start: 51 @8256 has 66 MA's), (75, 8313),

Gene: ODay_11 Start: 6855, Stop: 7112, Start Num: 56
Candidate Starts for ODay_11:
(43, 6810), (Start: 56 @6855 has 4 MA's), (86, 6948), (90, 6969), (112, 7041), (113, 7044), (116, 7065), (121, 7095),

Gene: OMalley_9 Start: 7261, Stop: 7548, Start Num: 40
Candidate Starts for OMalley_9:
(Start: 40 @7261 has 133 MA's), (86, 7360), (112, 7468), (125, 7540),

Gene: Oppalora_10 Start: 7655, Stop: 7909, Start Num: 41
Candidate Starts for Oppalora_10:
(10, 7397), (13, 7421), (15, 7457), (20, 7505), (33, 7619), (Start: 41 @7655 has 43 MA's), (62, 7679), (76, 7727), (80, 7736), (90, 7781), (109, 7799), (112, 7826),

Gene: Orcanus_11 Start: 8038, Stop: 8292, Start Num: 41
Candidate Starts for Orcanus_11:
(22, 7909), (24, 7924), (33, 8002), (35, 8020), (Start: 41 @8038 has 43 MA's), (62, 8062), (107, 8176), (109, 8182), (113, 8212),

Gene: Orla_13 Start: 8260, Stop: 8529, Start Num: 51
Candidate Starts for Orla_13:
(Start: 51 @8260 has 66 MA's), (75, 8317),

Gene: OtsoOtso_11 Start: 8089, Stop: 8343, Start Num: 41
Candidate Starts for OtsoOtso_11:
(Start: 36 @8074 has 1 MA's), (Start: 38 @8080 has 6 MA's), (Start: 39 @8083 has 14 MA's), (Start: 41 @8089 has 43 MA's), (62, 8113), (75, 8158), (92, 8221), (109, 8233),

Gene: OurGirlNessie_9 Start: 7234, Stop: 7503, Start Num: 40
Candidate Starts for OurGirlNessie_9:
(Start: 40 @7234 has 133 MA's), (80, 7312), (86, 7333), (112, 7420),

Gene: PartyCup_13 Start: 10175, Stop: 10444, Start Num: 40
Candidate Starts for PartyCup_13:
(Start: 36 @10163 has 1 MA's), (Start: 40 @10175 has 133 MA's), (Start: 60 @10193 has 4 MA's), (71, 10226), (86, 10274), (104, 10319), (112, 10361),

Gene: PastaFagioli_10 Start: 7726, Stop: 7989, Start Num: 39
Candidate Starts for PastaFagioli_10:
(Start: 36 @7717 has 1 MA's), (Start: 39 @7726 has 14 MA's), (75, 7795),

Gene: Pecas_10 Start: 7652, Stop: 7912, Start Num: 40
Candidate Starts for Pecas_10:
(Start: 36 @7640 has 1 MA's), (Start: 40 @7652 has 133 MA's), (63, 7676), (112, 7832), (115, 7847),

Gene: Pelletreau_12 Start: 8244, Stop: 8498, Start Num: 41
Candidate Starts for Pelletreau_12:
(22, 8115), (33, 8208), (35, 8226), (Start: 41 @8244 has 43 MA's), (62, 8268), (107, 8382), (109, 8388), (113, 8418),

Gene: Periwinkle_11 Start: 6824, Stop: 7048, Start Num: 54
Candidate Starts for Periwinkle_11:
(18, 6587), (19, 6602), (28, 6686), (43, 6782), (Start: 54 @6824 has 46 MA's), (74, 6863), (80, 6881), (101, 6938), (105, 6944), (112, 6971), (123, 7034),

Gene: Phabuloso_11 Start: 6829, Stop: 7053, Start Num: 54
Candidate Starts for Phabuloso_11:
(43, 6787), (Start: 54 @6829 has 46 MA's), (74, 6868), (80, 6886), (101, 6943), (105, 6949), (112, 6976), (123, 7039),

Gene: PhigPhack_10 Start: 7683, Stop: 7940, Start Num: 40
Candidate Starts for PhigPhack_10:
(Start: 36 @7671 has 1 MA's), (Start: 40 @7683 has 133 MA's), (63, 7704), (111, 7857), (112, 7860), (115, 7875), (120, 7911),

Gene: PhirstandPhine_12 Start: 8244, Stop: 8504, Start Num: 39
Candidate Starts for PhirstandPhine_12:
(Start: 36 @8235 has 1 MA's), (Start: 38 @8241 has 6 MA's), (Start: 39 @8244 has 14 MA's), (Start: 41 @8250 has 43 MA's), (62, 8274), (75, 8319), (92, 8382), (109, 8394),

Gene: Phisb_10 Start: 7645, Stop: 7905, Start Num: 40
Candidate Starts for Phisb_10:
(Start: 36 @7633 has 1 MA's), (Start: 40 @7645 has 133 MA's), (63, 7669), (112, 7825), (115, 7840), (120, 7876),

Gene: Phistory_11 Start: 6813, Stop: 7037, Start Num: 54
Candidate Starts for Phistory_11:
(19, 6591), (28, 6675), (43, 6771), (Start: 54 @6813 has 46 MA's), (74, 6852), (80, 6870), (101, 6927), (105, 6933), (112, 6960), (123, 7023),

Gene: PhluffyCoco_10 Start: 7655, Stop: 7909, Start Num: 41
Candidate Starts for PhluffyCoco_10:
(33, 7619), (Start: 41 @7655 has 43 MA's), (62, 7679), (75, 7724), (80, 7736), (90, 7781), (92, 7787), (109, 7799), (112, 7826),

Gene: PhorbesPhlower_10 Start: 6300, Stop: 6557, Start Num: 54
Candidate Starts for PhorbesPhlower_10:
(45, 6267), (Start: 54 @6300 has 46 MA's), (112, 6486), (116, 6510),

Gene: PinkFriday_9 Start: 7264, Stop: 7551, Start Num: 40
Candidate Starts for PinkFriday_9:
(Start: 40 @7264 has 133 MA's), (71, 7315), (86, 7363), (112, 7471), (125, 7543),

Gene: PitaDog_9 Start: 7234, Stop: 7503, Start Num: 40
Candidate Starts for PitaDog_9:
(Start: 40 @7234 has 133 MA's), (86, 7333), (104, 7378), (112, 7420),

Gene: Polka_11 Start: 8080, Stop: 8343, Start Num: 38
Candidate Starts for Polka_11:
(Start: 36 @8074 has 1 MA's), (Start: 38 @8080 has 6 MA's), (Start: 39 @8083 has 14 MA's), (Start: 41 @8089 has 43 MA's), (62, 8113), (75, 8158), (92, 8221), (109, 8233),

Gene: Pollux_12 Start: 8015, Stop: 8272, Start Num: 53
Candidate Starts for Pollux_12:
(Start: 53 @8015 has 29 MA's), (116, 8225), (123, 8264),

Gene: PondAmelia_11 Start: 7900, Stop: 8160, Start Num: 50
Candidate Starts for PondAmelia_11:
(Start: 50 @7900 has 3 MA's), (75, 7966),

Gene: Pons_11 Start: 7037, Stop: 7309, Start Num: 51
Candidate Starts for Pons_11:
(Start: 51 @7037 has 66 MA's), (Start: 60 @7049 has 4 MA's), (63, 7055), (110, 7220), (112, 7226), (116, 7250),

Gene: Posh_12 Start: 8009, Stop: 8266, Start Num: 53
Candidate Starts for Posh_12:
(Start: 53 @8009 has 29 MA's), (116, 8219), (123, 8258),

Gene: PotPie_11 Start: 7888, Stop: 8160, Start Num: 51
Candidate Starts for PotPie_11:
(Start: 49 @7885 has 1 MA's), (Start: 51 @7888 has 66 MA's), (Start: 60 @7900 has 4 MA's), (63, 7906), (110, 8071), (112, 8077), (116, 8101),

Gene: Potatoes_13 Start: 10152, Stop: 10421, Start Num: 40
Candidate Starts for Potatoes_13:
(Start: 40 @10152 has 133 MA's), (71, 10203), (75, 10218), (86, 10251),

Gene: Preamble_9 Start: 7244, Stop: 7513, Start Num: 40
Candidate Starts for Preamble_9:
(Start: 40 @7244 has 133 MA's), (86, 7343), (104, 7388), (112, 7430), (117, 7457),

Gene: PsychoKiller_11 Start: 7257, Stop: 7538, Start Num: 51
Candidate Starts for PsychoKiller_11:
(29, 7134), (Start: 51 @7257 has 66 MA's),

Gene: Pterodactyl_9 Start: 7235, Stop: 7504, Start Num: 40
Candidate Starts for Pterodactyl_9:

(Start: 40 @7235 has 133 MA's), (86, 7334), (104, 7379), (112, 7421),

Gene: Pumancara_9 Start: 7263, Stop: 7550, Start Num: 40
Candidate Starts for Pumancara_9:
(Start: 40 @7263 has 133 MA's), (71, 7314), (86, 7362), (112, 7470), (125, 7542),

Gene: Pytheas_12 Start: 7862, Stop: 8119, Start Num: 53
Candidate Starts for Pytheas_12:
(Start: 53 @7862 has 29 MA's), (116, 8072), (123, 8111),

Gene: QMacho_11 Start: 8135, Stop: 8395, Start Num: 40
Candidate Starts for QMacho_11:
(Start: 36 @8123 has 1 MA's), (Start: 40 @8135 has 133 MA's), (63, 8159), (112, 8315), (115, 8330),

Gene: Quasar_11 Start: 7872, Stop: 8147, Start Num: 51
Candidate Starts for Quasar_11:
(29, 7749), (Start: 51 @7872 has 66 MA's),

Gene: Quenya_11 Start: 7781, Stop: 8044, Start Num: 40
Candidate Starts for Quenya_11:
(31, 7724), (Start: 40 @7781 has 133 MA's), (63, 7808), (67, 7823), (112, 7964),

Gene: RADical_12 Start: 7258, Stop: 7539, Start Num: 51
Candidate Starts for RADical_12:
(29, 7135), (Start: 51 @7258 has 66 MA's),

Gene: RAP15_13 Start: 10158, Stop: 10427, Start Num: 40
Candidate Starts for RAP15_13:
(Start: 40 @10158 has 133 MA's), (71, 10209), (75, 10224), (86, 10257),

Gene: RSchmailzl_12 Start: 7398, Stop: 7679, Start Num: 51
Candidate Starts for RSchmailzl_12:
(29, 7275), (Start: 51 @7398 has 66 MA's),

Gene: RanchParmCat_14 Start: 7972, Stop: 8241, Start Num: 51
Candidate Starts for RanchParmCat_14:
(Start: 51 @7972 has 66 MA's), (63, 7987), (75, 8029),

Gene: Rattail_10 Start: 7706, Stop: 7960, Start Num: 41
Candidate Starts for Rattail_10:
(10, 7448), (13, 7472), (15, 7508), (20, 7556), (32, 7664), (33, 7670), (Start: 41 @7706 has 43 MA's), (62, 7730), (76, 7778), (80, 7787), (90, 7832), (109, 7850), (112, 7877),

Gene: Raya_10 Start: 6319, Stop: 6558, Start Num: 57
Candidate Starts for Raya_10:
(46, 6292), (Start: 47 @6298 has 6 MA's), (57, 6319), (61, 6331), (64, 6337), (71, 6364), (82, 6394), (91, 6439), (108, 6451), (116, 6505),

Gene: RcigaStruga_13 Start: 10141, Stop: 10431, Start Num: 40
Candidate Starts for RcigaStruga_13:
(4, 9655), (6, 9742), (11, 9880), (Start: 40 @10141 has 133 MA's), (63, 10165), (86, 10240), (91, 10267), (112, 10348),

Gene: RedBaron_13 Start: 7302, Stop: 7583, Start Num: 51
Candidate Starts for RedBaron_13:
(29, 7179), (Start: 51 @7302 has 66 MA's),

Gene: RedFox_10 Start: 7655, Stop: 7909, Start Num: 41
Candidate Starts for RedFox_10:
(33, 7619), (Start: 41 @7655 has 43 MA's), (62, 7679), (75, 7724), (80, 7736), (90, 7781), (92, 7787), (109, 7799), (112, 7826),

Gene: Renna12_11 Start: 7855, Stop: 8109, Start Num: 41
Candidate Starts for Renna12_11:
(Start: 41 @7855 has 43 MA's), (62, 7879), (75, 7924), (80, 7936), (90, 7981), (92, 7987), (109, 7999), (112, 8026),

Gene: Riovina_9 Start: 7261, Stop: 7548, Start Num: 40
Candidate Starts for Riovina_9:
(Start: 40 @7261 has 133 MA's), (86, 7360), (112, 7468), (125, 7540),

Gene: Riverdale_13 Start: 10089, Stop: 10358, Start Num: 40
Candidate Starts for Riverdale_13:
(Start: 40 @10089 has 133 MA's), (71, 10140), (75, 10155), (86, 10188),

Gene: Roberts_12 Start: 7464, Stop: 7730, Start Num: 54
Candidate Starts for Roberts_12:
(Start: 54 @7464 has 46 MA's), (112, 7650), (113, 7653), (122, 7710),

Gene: Rollins_9 Start: 7485, Stop: 7748, Start Num: 40
Candidate Starts for Rollins_9:
(31, 7428), (Start: 40 @7485 has 133 MA's), (43, 7500), (63, 7515), (106, 7632), (116, 7692), (121, 7722),

Gene: Rona_10 Start: 7882, Stop: 8139, Start Num: 40
Candidate Starts for Rona_10:
(Start: 40 @7882 has 133 MA's), (75, 7945), (112, 8059), (119, 8104),

Gene: Ronaldo_46 Start: 17223, Stop: 17507, Start Num: 47
Candidate Starts for Ronaldo_46:
(46, 17217), (Start: 47 @17223 has 6 MA's), (70, 17280), (79, 17307), (105, 17388), (107, 17394),

Gene: Rozby_13 Start: 10089, Stop: 10358, Start Num: 40
Candidate Starts for Rozby_13:
(Start: 40 @10089 has 133 MA's), (71, 10140), (75, 10155), (86, 10188),

Gene: Ruchi_11 Start: 8341, Stop: 8598, Start Num: 41
Candidate Starts for Ruchi_11:
(5, 7879), (7, 7987), (8, 8032), (20, 8188), (Start: 41 @8341 has 43 MA's), (92, 8479), (110, 8509),

Gene: SanaSana_11 Start: 7900, Stop: 8160, Start Num: 50
Candidate Starts for SanaSana_11:
(Start: 50 @7900 has 3 MA's), (75, 7966),

Gene: SansAfet_10 Start: 7665, Stop: 7922, Start Num: 40
Candidate Starts for SansAfet_10:

(Start: 36 @7653 has 1 MA's), (Start: 40 @7665 has 133 MA's), (63, 7686), (111, 7839), (112, 7842), (115, 7857), (120, 7893),

Gene: SarBear_10 Start: 7625, Stop: 7888, Start Num: 39
Candidate Starts for SarBear_10:
(Start: 36 @7616 has 1 MA's), (Start: 39 @7625 has 14 MA's), (63, 7652), (112, 7808), (115, 7823),

Gene: Savage2526_13 Start: 10152, Stop: 10421, Start Num: 40
Candidate Starts for Savage2526_13:
(Start: 40 @10152 has 133 MA's), (71, 10203), (75, 10218), (86, 10251),

Gene: Scuttle_13 Start: 10158, Stop: 10427, Start Num: 40
Candidate Starts for Scuttle_13:
(Start: 40 @10158 has 133 MA's), (71, 10209), (75, 10224), (86, 10257),

Gene: Sergei_9 Start: 7263, Stop: 7550, Start Num: 40
Candidate Starts for Sergei_9:
(Start: 40 @7263 has 133 MA's), (82, 7344), (86, 7362), (112, 7470), (125, 7542),

Gene: Shambre1_11 Start: 8534, Stop: 8782, Start Num: 55
Candidate Starts for Shambre1_11:
(Start: 55 @8534 has 2 MA's), (76, 8600), (90, 8654),

Gene: Sharkboy_10 Start: 7881, Stop: 8138, Start Num: 40
Candidate Starts for Sharkboy_10:
(Start: 40 @7881 has 133 MA's), (75, 7944), (112, 8058), (119, 8103),

Gene: ShawBrad_11 Start: 6829, Stop: 7053, Start Num: 54
Candidate Starts for ShawBrad_11:
(18, 6592), (19, 6607), (28, 6691), (43, 6787), (Start: 54 @6829 has 46 MA's), (74, 6868), (80, 6886), (101, 6943), (105, 6949), (112, 6976), (123, 7039),

Gene: SheckWes_10 Start: 7025, Stop: 7297, Start Num: 51
Candidate Starts for SheckWes_10:
(Start: 51 @7025 has 66 MA's), (Start: 60 @7037 has 4 MA's), (63, 7043), (110, 7208), (112, 7214), (116, 7238),

Gene: Shen_12 Start: 8245, Stop: 8499, Start Num: 41
Candidate Starts for Shen_12:
(22, 8116), (33, 8209), (35, 8227), (Start: 41 @8245 has 43 MA's), (62, 8269), (107, 8383), (109, 8389), (113, 8419),

Gene: SilverChicken_12 Start: 6948, Stop: 7220, Start Num: 53
Candidate Starts for SilverChicken_12:
(Start: 53 @6948 has 29 MA's), (75, 7008), (76, 7011), (86, 7041), (90, 7065), (98, 7095), (114, 7155),

Gene: SirBeanington_10 Start: 7654, Stop: 7914, Start Num: 40
Candidate Starts for SirBeanington_10:
(Start: 36 @7642 has 1 MA's), (Start: 40 @7654 has 133 MA's), (63, 7678), (112, 7834), (120, 7885),

Gene: SketchMex_10 Start: 7241, Stop: 7519, Start Num: 51
Candidate Starts for SketchMex_10:
(Start: 51 @7241 has 66 MA's), (76, 7310), (94, 7382),

Gene: Skyerus_10 Start: 6319, Stop: 6558, Start Num: 57
Candidate Starts for Skyerus_10:
(46, 6292), (Start: 47 @6298 has 6 MA's), (57, 6319), (61, 6331), (64, 6337), (71, 6364), (82, 6394), (91, 6439), (108, 6451), (116, 6505),

Gene: Skylord_9 Start: 7425, Stop: 7688, Start Num: 40
Candidate Starts for Skylord_9:
(31, 7368), (Start: 40 @7425 has 133 MA's), (43, 7440), (63, 7455), (106, 7572), (116, 7632), (121, 7662),

Gene: Slay_10 Start: 8101, Stop: 8364, Start Num: 39
Candidate Starts for Slay_10:
(Start: 36 @8092 has 1 MA's), (Start: 39 @8101 has 14 MA's), (63, 8128), (112, 8284), (115, 8299),

Gene: Sleepyhead_11 Start: 7625, Stop: 7879, Start Num: 51
Candidate Starts for Sleepyhead_11:
(Start: 51 @7625 has 66 MA's), (70, 7667), (84, 7706), (86, 7718),

Gene: Socotra_12 Start: 7257, Stop: 7538, Start Num: 51
Candidate Starts for Socotra_12:
(29, 7134), (Start: 51 @7257 has 66 MA's),

Gene: Softsoap_10 Start: 7654, Stop: 7911, Start Num: 40
Candidate Starts for Softsoap_10:
(Start: 36 @7642 has 1 MA's), (Start: 40 @7654 has 133 MA's), (112, 7831), (120, 7882),

Gene: Solea_11 Start: 8040, Stop: 8297, Start Num: 40
Candidate Starts for Solea_11:
(Start: 36 @8028 has 1 MA's), (Start: 40 @8040 has 133 MA's), (63, 8061), (112, 8217), (115, 8232), (120, 8268),

Gene: Sopespian_11 Start: 7257, Stop: 7538, Start Num: 51
Candidate Starts for Sopespian_11:
(29, 7134), (Start: 51 @7257 has 66 MA's),

Gene: Soul22_12 Start: 6947, Stop: 7219, Start Num: 53
Candidate Starts for Soul22_12:
(Start: 53 @6947 has 29 MA's), (75, 7007), (76, 7010), (86, 7040), (90, 7064), (98, 7094), (114, 7154),

Gene: Spartoi_9 Start: 6351, Stop: 6599, Start Num: 55
Candidate Starts for Spartoi_9:
(Start: 55 @6351 has 2 MA's), (Start: 60 @6366 has 4 MA's), (75, 6414), (116, 6540),

Gene: Spooky_11 Start: 6822, Stop: 7046, Start Num: 54
Candidate Starts for Spooky_11:
(Start: 54 @6822 has 46 MA's), (80, 6879), (101, 6936), (105, 6942), (123, 7032),

Gene: Squiddly_12 Start: 7509, Stop: 7733, Start Num: 54
Candidate Starts for Squiddly_12:
(19, 7287), (28, 7371), (43, 7467), (Start: 54 @7509 has 46 MA's), (74, 7548), (80, 7566), (101, 7623), (105, 7629), (112, 7656), (123, 7719),

Gene: Starburst_12 Start: 7257, Stop: 7538, Start Num: 51
Candidate Starts for Starburst_12:
(29, 7134), (Start: 51 @7257 has 66 MA's),

Gene: SteamedHams_13 Start: 7276, Stop: 7548, Start Num: 51
Candidate Starts for SteamedHams_13:
(Start: 51 @7276 has 66 MA's), (76, 7339),

Gene: Stellammi_8 Start: 6263, Stop: 6532, Start Num: 54
Candidate Starts for Stellammi_8:
(Start: 54 @6263 has 46 MA's), (63, 6278), (68, 6293), (77, 6332), (81, 6341), (85, 6350), (89, 6374), (99, 6395), (100, 6398), (109, 6422),

Gene: Stoor_10 Start: 7897, Stop: 8157, Start Num: 50
Candidate Starts for Stoor_10:
(Start: 50 @7897 has 3 MA's), (75, 7963),

Gene: Stromboli_10 Start: 7898, Stop: 8161, Start Num: 53
Candidate Starts for Stromboli_10:
(Start: 53 @7898 has 29 MA's), (58, 7910), (63, 7925), (106, 8042), (112, 8081), (115, 8096),

Gene: StuartMinion_10 Start: 7681, Stop: 7935, Start Num: 41
Candidate Starts for StuartMinion_10:
(9, 7405), (12, 7444), (Start: 41 @7681 has 43 MA's), (76, 7753), (90, 7807), (107, 7819), (109, 7825), (112, 7852),

Gene: Studio_12 Start: 7220, Stop: 7489, Start Num: 54
Candidate Starts for Studio_12:
(Start: 39 @7157 has 14 MA's), (Start: 54 @7220 has 46 MA's), (97, 7361),

Gene: SummitAcademy_10 Start: 7103, Stop: 7375, Start Num: 51
Candidate Starts for SummitAcademy_10:
(Start: 49 @7100 has 1 MA's), (Start: 51 @7103 has 66 MA's), (Start: 60 @7115 has 4 MA's), (63, 7121), (110, 7286), (112, 7292), (116, 7316),

Gene: Supakev_9 Start: 7263, Stop: 7550, Start Num: 40
Candidate Starts for Supakev_9:
(Start: 40 @7263 has 133 MA's), (71, 7314), (86, 7362), (112, 7470),

Gene: Suppi_13 Start: 10175, Stop: 10444, Start Num: 40
Candidate Starts for Suppi_13:
(Start: 36 @10163 has 1 MA's), (Start: 40 @10175 has 133 MA's), (Start: 60 @10193 has 4 MA's), (80, 10253), (86, 10274), (112, 10361),

Gene: Survivors_13 Start: 8017, Stop: 8316, Start Num: 51
Candidate Starts for Survivors_13:
(Start: 49 @8014 has 1 MA's), (Start: 51 @8017 has 66 MA's), (86, 8119), (103, 8188), (112, 8230), (122, 8290), (123, 8293), (124, 8296),

Gene: SweatNTears_13 Start: 7761, Stop: 8030, Start Num: 51
Candidate Starts for SweatNTears_13:
(Start: 51 @7761 has 66 MA's), (76, 7821), (94, 7893),

Gene: Swervy_10 Start: 7625, Stop: 7888, Start Num: 39
Candidate Starts for Swervy_10:
(Start: 36 @7616 has 1 MA's), (Start: 39 @7625 has 14 MA's), (63, 7652), (112, 7808), (115, 7823),

Gene: TMaxx_12 Start: 7340, Stop: 7600, Start Num: 54
Candidate Starts for TMaxx_12:
(Start: 54 @7340 has 46 MA's), (87, 7439), (112, 7520), (113, 7523),

Gene: Tarnish_11 Start: 7402, Stop: 7674, Start Num: 51
Candidate Starts for Tarnish_11:
(Start: 49 @7399 has 1 MA's), (Start: 51 @7402 has 66 MA's), (110, 7585), (112, 7591), (116, 7615),

Gene: TattModd_13 Start: 10152, Stop: 10421, Start Num: 40
Candidate Starts for TattModd_13:
(Start: 40 @10152 has 133 MA's), (71, 10203), (75, 10218), (86, 10251),

Gene: TaylorSipht_11 Start: 8123, Stop: 8377, Start Num: 41
Candidate Starts for TaylorSipht_11:
(33, 8087), (35, 8105), (Start: 41 @8123 has 43 MA's), (62, 8147), (76, 8195), (80, 8204),

Gene: Temper16_9 Start: 7263, Stop: 7550, Start Num: 40
Candidate Starts for Temper16_9:
(Start: 40 @7263 has 133 MA's), (82, 7344), (86, 7362), (112, 7470), (125, 7542),

Gene: Toad24_12 Start: 8245, Stop: 8499, Start Num: 41
Candidate Starts for Toad24_12:
(22, 8116), (24, 8131), (35, 8227), (Start: 41 @8245 has 43 MA's), (62, 8269), (107, 8383), (109, 8389), (113, 8419),

Gene: Tolls_13 Start: 7279, Stop: 7551, Start Num: 51
Candidate Starts for Tolls_13:
(Start: 51 @7279 has 66 MA's), (76, 7342),

Gene: TripleC_15 Start: 10834, Stop: 11106, Start Num: 54
Candidate Starts for TripleC_15:
(Start: 39 @10771 has 14 MA's), (Start: 54 @10834 has 46 MA's), (113, 11029),

Gene: Troje_11 Start: 7235, Stop: 7504, Start Num: 51
Candidate Starts for Troje_11:
(Start: 51 @7235 has 66 MA's), (76, 7295), (94, 7367),

Gene: TukTuk_10 Start: 7628, Stop: 7948, Start Num: 40
Candidate Starts for TukTuk_10:
(Start: 36 @7616 has 1 MA's), (Start: 40 @7628 has 133 MA's), (63, 7712), (112, 7868), (115, 7883),

Gene: Typha_17 Start: 11749, Stop: 11997, Start Num: 72
Candidate Starts for Typha_17:
(52, 11692), (Start: 72 @11749 has 6 MA's), (83, 11791), (100, 11866), (113, 11914), (121, 11965), (125, 11983),

Gene: Typhonomachy_11 Start: 7257, Stop: 7538, Start Num: 51
Candidate Starts for Typhonomachy_11:
(29, 7134), (Start: 51 @7257 has 66 MA's),

Gene: Urla_9 Start: 7290, Stop: 7559, Start Num: 40
Candidate Starts for Urla_9:
(Start: 40 @7290 has 133 MA's), (86, 7389), (88, 7395), (112, 7476),

Gene: Vallejo_13 Start: 10090, Stop: 10359, Start Num: 40
Candidate Starts for Vallejo_13:
(Start: 40 @10090 has 133 MA's), (71, 10141), (75, 10156), (86, 10189),

Gene: Vine_12 Start: 8032, Stop: 8304, Start Num: 51
Candidate Starts for Vine_12:
(Start: 49 @8029 has 1 MA's), (Start: 51 @8032 has 66 MA's), (110, 8215), (112, 8221), (116, 8245),

Gene: Vitas_9 Start: 7425, Stop: 7688, Start Num: 40
Candidate Starts for Vitas_9:
(31, 7368), (Start: 40 @7425 has 133 MA's), (43, 7440), (63, 7455), (106, 7572), (116, 7632), (121, 7662),

Gene: Volt_45 Start: 17223, Stop: 17507, Start Num: 47
Candidate Starts for Volt_45:
(46, 17217), (Start: 47 @17223 has 6 MA's), (70, 17280), (79, 17307), (105, 17388), (107, 17394),

Gene: Vulpecula_11 Start: 8417, Stop: 8674, Start Num: 41
Candidate Starts for Vulpecula_11:
(1, 7796), (2, 7841), (5, 7955), (7, 8063), (20, 8264), (33, 8381), (Start: 41 @8417 has 43 MA's), (110, 8585),

Gene: Vulture_9 Start: 7261, Stop: 7548, Start Num: 40
Candidate Starts for Vulture_9:
(Start: 40 @7261 has 133 MA's), (86, 7360), (112, 7468),

Gene: WalkingDead_10 Start: 7885, Stop: 8148, Start Num: 53
Candidate Starts for WalkingDead_10:
(Start: 53 @7885 has 29 MA's), (63, 7912), (112, 8068), (115, 8083),

Gene: Wallaby_15 Start: 8162, Stop: 8461, Start Num: 51
Candidate Starts for Wallaby_15:
(Start: 49 @8159 has 1 MA's), (Start: 51 @8162 has 66 MA's), (86, 8264), (103, 8333), (112, 8375), (122, 8435), (123, 8438), (124, 8441),

Gene: Wawa_13 Start: 10127, Stop: 10396, Start Num: 40
Candidate Starts for Wawa_13:
(Start: 40 @10127 has 133 MA's), (71, 10178), (75, 10193), (86, 10226),

Gene: Wayne_13 Start: 10221, Stop: 10490, Start Num: 40
Candidate Starts for Wayne_13:
(Start: 36 @10209 has 1 MA's), (Start: 40 @10221 has 133 MA's), (Start: 60 @10239 has 4 MA's), (80, 10299), (86, 10320), (112, 10407),

Gene: Westrich_12 Start: 8233, Stop: 8487, Start Num: 41
Candidate Starts for Westrich_12:
(22, 8104), (24, 8119), (33, 8197), (35, 8215), (Start: 41 @8233 has 43 MA's), (62, 8257), (107, 8371), (109, 8377), (113, 8407),

Gene: Whitney_11 Start: 6824, Stop: 7048, Start Num: 54
Candidate Starts for Whitney_11:
(18, 6587), (19, 6602), (28, 6686), (Start: 54 @6824 has 46 MA's), (74, 6863), (80, 6881), (101, 6938), (105, 6944), (112, 6971), (123, 7034),

Gene: WileyE_10 Start: 7752, Stop: 8009, Start Num: 41
Candidate Starts for WileyE_10:
(5, 7290), (7, 7398), (8, 7443), (20, 7599), (Start: 41 @7752 has 43 MA's), (110, 7920),

Gene: Wolfwood_13 Start: 8162, Stop: 8461, Start Num: 51
Candidate Starts for Wolfwood_13:
(Start: 49 @8159 has 1 MA's), (Start: 51 @8162 has 66 MA's), (86, 8264), (103, 8333), (112, 8375), (122, 8435), (123, 8438), (124, 8441),

Gene: WonderBoy_9 Start: 7243, Stop: 7512, Start Num: 40
Candidate Starts for WonderBoy_9:
(Start: 40 @7243 has 133 MA's), (86, 7342), (112, 7429),

Gene: Wrigley_12 Start: 7859, Stop: 8116, Start Num: 53
Candidate Starts for Wrigley_12:
(Start: 53 @7859 has 29 MA's), (116, 8069), (123, 8108),

Gene: Yakult_12 Start: 7168, Stop: 7437, Start Num: 51
Candidate Starts for Yakult_12:
(Start: 51 @7168 has 66 MA's),

Gene: Yarn_10 Start: 7269, Stop: 7541, Start Num: 51
Candidate Starts for Yarn_10:
(Start: 51 @7269 has 66 MA's),

Gene: Yoshi_12 Start: 6947, Stop: 7219, Start Num: 53
Candidate Starts for Yoshi_12:
(Start: 53 @6947 has 29 MA's), (75, 7007), (76, 7010), (86, 7040), (90, 7064), (98, 7094), (114, 7154),

Gene: Yucky_11 Start: 7892, Stop: 8164, Start Num: 51
Candidate Starts for Yucky_11:
(Start: 49 @7889 has 1 MA's), (Start: 51 @7892 has 66 MA's), (110, 8075), (112, 8081), (116, 8105),

Gene: Yummy_12 Start: 7139, Stop: 7417, Start Num: 51
Candidate Starts for Yummy_12:
(Start: 51 @7139 has 66 MA's), (76, 7208), (94, 7280),

Gene: Zapner_13 Start: 7472, Stop: 7744, Start Num: 53
Candidate Starts for Zapner_13:
(Start: 53 @7472 has 29 MA's), (75, 7532), (76, 7535), (86, 7565), (90, 7589), (98, 7619), (114, 7679),

Gene: Zareef_13 Start: 8164, Stop: 8463, Start Num: 51
Candidate Starts for Zareef_13:
(Start: 49 @8161 has 1 MA's), (Start: 51 @8164 has 66 MA's), (86, 8266), (103, 8335), (112, 8377), (122, 8437), (123, 8440), (124, 8443),

Gene: Zhuangyuan_12 Start: 8412, Stop: 8666, Start Num: 41

Candidate Starts for Zhuangyuan_12:
(10, 8154), (14, 8205), (22, 8283), (33, 8376), (35, 8394), (Start: 41 @8412 has 43 MA's), (58, 8424), (92, 8544), (112, 8583), (118, 8622),

Gene: Ziko_46 Start: 17163, Stop: 17447, Start Num: 47
Candidate Starts for Ziko_46:
(46, 17157), (Start: 47 @17163 has 6 MA's), (70, 17220), (79, 17247), (105, 17328), (107, 17334),

Gene: Zixiang_11 Start: 8034, Stop: 8288, Start Num: 41
Candidate Starts for Zixiang_11:
(1, 7434), (5, 7593), (7, 7701), (22, 7905), (33, 7998), (35, 8016), (Start: 41 @8034 has 43 MA's), (62, 8058), (76, 8106), (109, 8178), (112, 8205),

Gene: Zorro_13 Start: 10106, Stop: 10375, Start Num: 40
Candidate Starts for Zorro_13:
(Start: 40 @10106 has 133 MA's), (71, 10157), (75, 10172), (86, 10205),