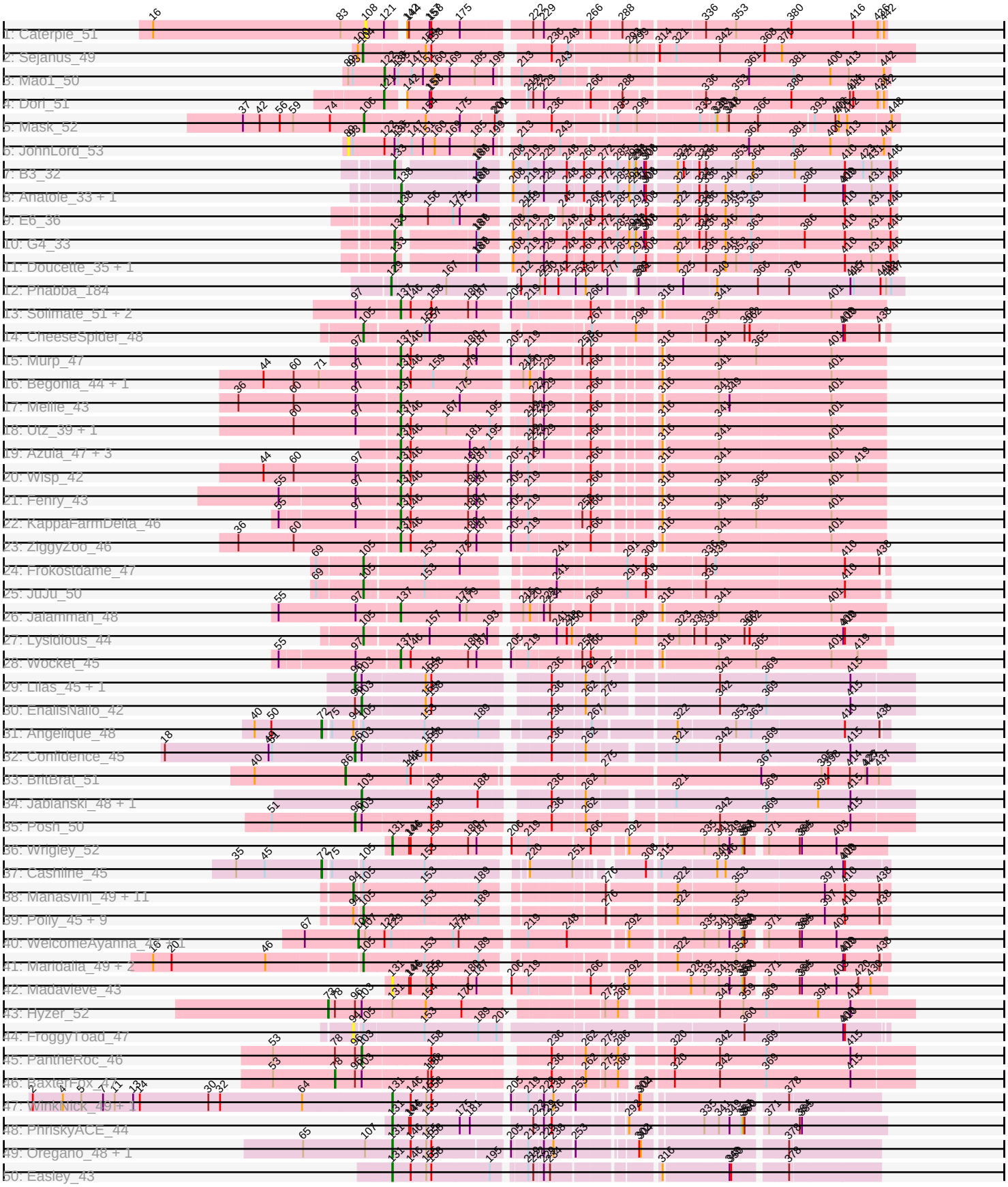
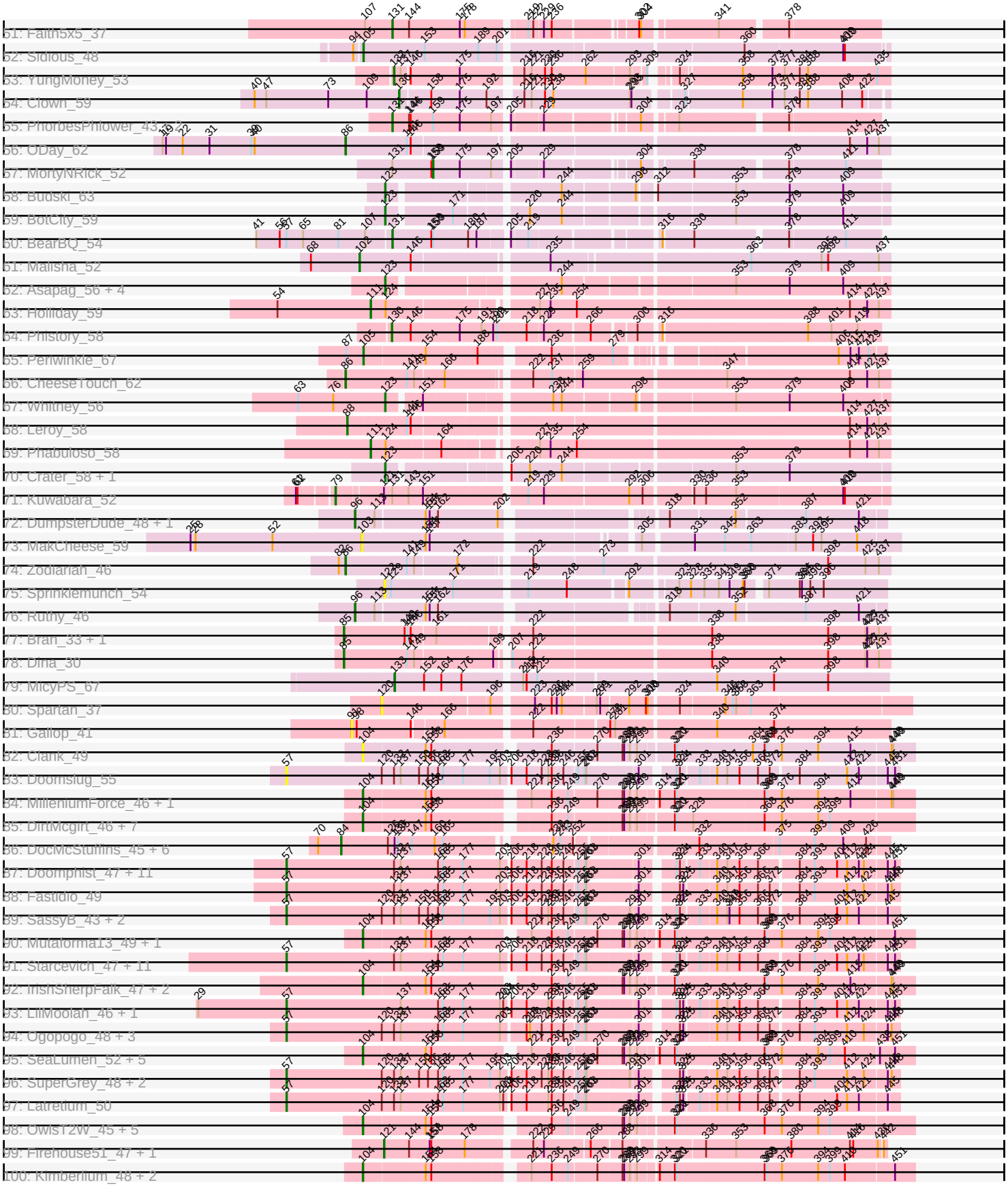
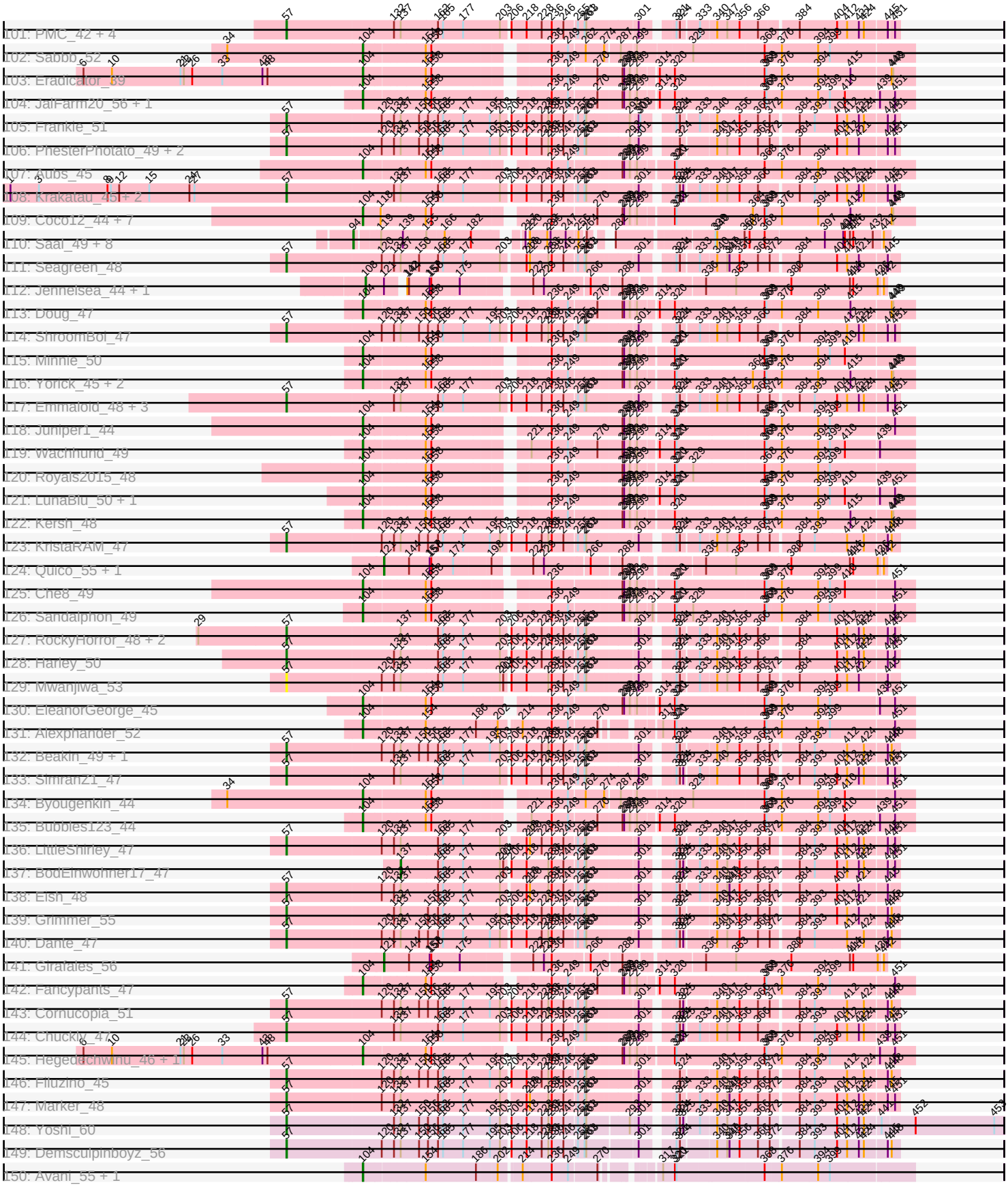
Pham 347113


1: Caterpie_51
2: Sejanus_49
3: Mao1_50
4: Dori_51
5: Mask_52
6: JohnLord_53
7: B3_32
8: Anatole_33 + 1
9: E6_36
10: G4_33
11: Doucette_35 + 1
12: Phabba_184
13: Solimate_51 + 2
14: CheeseSpider_48
15: Murp_47
16: Begonia_44 + 1
17: Mellie_43
18: Otz_39 + 1
19: Azula_47 + 3
20: Wisp_42
21: Fenry_43
22: KappaFarmDelta_46
23: ZiggyZoo_46
24: Frokostdame_47
25: JuJu_50
26: Jalamman_48
27: Lysidious_44
28: Wocket_45
29: Lilas_45 + 1
30: EnalisNallo_42
31: Angelique_48
32: Confidence_45
33: BritBrat_51
34: Jablanski_48 + 1
35: Posh_50
36: Wrigley_52
37: Cashline_45
38: Manasvini_49 + 11
39: Polly_45 + 9
40: WelcomeAyanna_48
41: Mandalla_49 + 2
42: Madavieve_43
43: Hyzer_52
44: FroggyToad_47
45: PantheRoc_46
46: BaxterFox_47
47: WinkiNick_49 + 1
48: PhriskyACE_44
49: Oregano_48 + 1
50: Easley_43

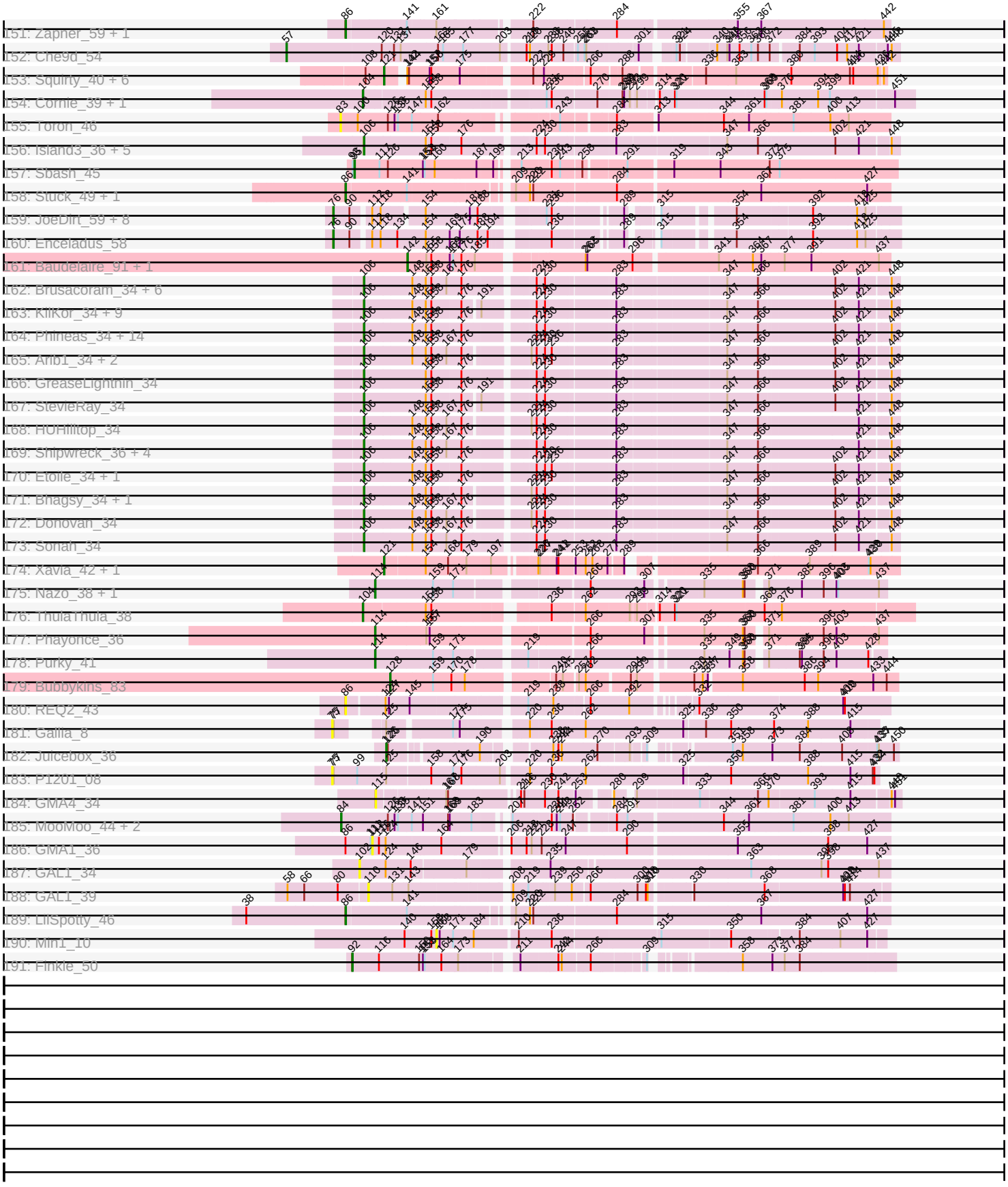
Pham 347113


51: Faith5x5_37
52: Sidious_48
53: YungMoney_53
54: Clown_59
55: PhorbesPflower_43 + 2
56: ODay_62
57: MortyNRick_52
58: Budski_63
59: BotCity_59
60: BearBQ_54
61: Malisha_52
62: Asapag_56 + 4
63: Holliday_59
64: Phistory_58
65: Periwinkle_67
66: CheeseTouch_62
67: Whitney_56
68: Leroy_58
69: Phabulosa_58
70: Crater_58 + 1
71: Kuwabara_52
72: DumpsterDude_48 + 1
73: MakCheese_59
74: Zodiarian_46
75: Sprinklemunch_54
76: Ruthy_46
77: Bran_33 + 1
78: Dina_30
79: MicyPS_67
80: Spartan_37
81: Gallop_41
82: Clank_49
83: Doomslug_55
84: MilleniumForce_46 + 1
85: DirtMcgirt_46 + 7
86: DocMcStuffins_45 + 6
87: Doomphist_47 + 11
88: Fastidio_49
89: SassyB_43 + 2
90: Mutaforma13_49 + 1
91: Starcevich_47 + 11
92: IrishSherpFalk_47 + 2
93: LilMoolah_46 + 1
94: Ogopogo_48 + 3
95: SeaLumen_52 + 5
96: SuperGrey_48 + 2
97: Latretium_50
98: OwlsT2W_45 + 5
99: Firehouse51_47 + 1
100: Kimberlium_48 + 2

Pham 347113



Pham 347113


151: Zapher_59 + 1
152: Che9d_54
153: Squirty_40 + 6
154: Cornie_39 + 1
155: Toron_46
156: Island3_36 + 5
157: Sbash_45
158: Stuck_49 + 1
159: JoeDirt_59 + 8
160: Enceladus_58
161: Baudelaire_91 + 1
162: Brusacoram_34 + 6
163: Klikor_34 + 9
164: Phineas_34 + 14
165: Arib1_34 + 2
166: GreaseLightnin_34
167: StevieRay_34
168: HOHmitop_34
169: Shipwreck_36 + 4
170: Etoile_34 + 1
171: Bhagsy_34 + 1
172: Donovan_34
173: Sonan_34
174: Xavia_42 + 1
175: Nazo_38 + 1
176: ThulaThula_38
177: Phayonce_36
178: Purky_41
179: Bubbykins_83
180: REQ2_43
181: Galla_8
182: Juicebox_36
183: P1201_08
184: GMA4_34
185: MooMoo_44 + 2
186: GMA1_36
187: GAL1_34
188: GAL1_39
189: LilSpotty_46
190: Mini_10
191: Finkie_50

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 347113 Report

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

Pham number 347113 has 397 members, 39 are drafts.

Phages represented in each track:
- Track 1 : Caterpie_51
- Track 2 : Sejanus_49
- Track 3 : Mao1_50
- Track 4 : Dori_51
- Track 5 : Mask_52
- Track 6 : JohnLord_53
- Track 7 : B3_32
- Track 8 : Anatole_33, E1_33
- Track 9 : E6_36
- Track 10 : G4_33
- Track 11 : Doucette_35, B22_33
- Track 12 : Phabba_184
- Track 13 : Soilmate_51, Blino_49, CarolAnn_48
- Track 14 : CheeseSpider_48
- Track 15 : Murp_47
- Track 16 : Begonia_44, Malachai_44
- Track 17 : Mellie_43
- Track 18 : Utz_39, Samba_44
- Track 19 : Azula_47, MissRona_47, Blueberry_46, Gambino_49
- Track 20 : Wisp_42
- Track 21 : Fenry_43
- Track 22 : KappaFarmDelta_46
- Track 23 : ZiggyZoo_46
- Track 24 : Frokostdame_47
- Track 25 : JuJu_50
- Track 26 : Jalammah_48
- Track 27 : Lysidious_44
- Track 28 : Wocket_45
- Track 29 : Lilas_45, Bradissa_43
- Track 30 : EnalisNailo_42
- Track 31 : Angelique_48
- Track 32 : Confidence_45
- Track 33 : BritBrat_51
- Track 34 : Jablanski_48, Pytheas_48
- Track 35 : Posh_50
- Track 36 : Wrigley_52
- Track 37 : Cashline_45

• Track 38 : Manasvini_49, Yeet412_43, SoilAssassin_43, Attis_43, Antonio_48, Bialota_46, Pickett_41, Kita_49, LordFarquaad_45, Dillpickles_53, Zirinka_45, EdnaMode_42
• Track 39 : Polly_45, Agueybana_50, Eudoria_48, Neobush_48, BoyNamedSue_48, AlumE_48, Trumpet_48, Zameen_48, Tayonia_48, Suscepit_48
• Track 40 : WelcomeAyanna_47, ThankyouJordi_47
• Track 41 : Maridalia_49, Bunnybear_41, SushiChef_45
• Track 42 : Madavieve_43
• Track 43 : Hyzer_52
• Track 44 : FroggyToad_47
• Track 45 : PantheRoc_46
• Track 46 : BaxterFox_47
• Track 47 : WinkNick_49, Dolores_48
• Track 48 : PhriskyACE_44
• Track 49 : Oregano_48, Annalisa_45
• Track 50 : Easley_43
• Track 51 : Faith5x5_37
• Track 52 : Sidious_48
• Track 53 : YungMoney_53
• Track 54 : Clown_59
• Track 55 : PhorbesPhlower_43, Pepperoni_38, InLimbo_43
• Track 56 : ODay_62
• Track 57 : MortyNRick_52
• Track 58 : Budski_63
• Track 59 : BotCity_59
• Track 60 : BearBQ_54
• Track 61 : Malisha_52
• Track 62 : Asapag_56, Kenna_56, Getalong_59, Birdsong_56, Lutum_61
• Track 63 : Holliday_59
• Track 64 : Phistory_58
• Track 65 : Periwinkle_67
• Track 66 : CheeseTouch_62
• Track 67 : Whitney_56
• Track 68 : Leroy_58
• Track 69 : Phabuloso_58
• Track 70 : Crater_58, Apricot_58
• Track 71 : Kuwabara_52
• Track 72 : DumpsterDude_48, ArchiDore_46
• Track 73 : MakCheese_59
• Track 74 : Zodiariah_46
• Track 75 : Sprinklemunch_54
• Track 76 : Ruthy_46
• Track 77 : Bran_33, Adelaide_30
• Track 78 : Dina_30
• Track 79 : MicyPS_67
• Track 80 : Spartan_37
• Track 81 : Gallop_41
• Track 82 : Clank_49
• Track 83 : Doomslug_55
• Track 84 : MilleniumForce_46, Violac_49
• Track 85 : DirtMcgirt_46, Leozinho_47, OlympiaSaint_47, Llij_44, UncleRicky_47, Drago_46, Tootsieroll_49, Lucia_46

• Track 86 : DocMcStuffins_45, Awesomesauce_46, ChickenDinner_45, Aloeri_46, Misha28_44, Piper2020_46, TootsiePop_44
• Track 87 : Doomphist_47, Poenanya_47, RedBird_44, Dorothy_44, Stap_46, Girr_48, Blexus_45, MisterCuddles_47, Madiba_43, BlueCrab_45, Job42_48, Ruby_46
• Track 88 : Fastidio_49
• Track 89 : SassyB_43, Estave1_48, PopTart_43
• Track 90 : Mutaforma13_49, Maravista_47
• Track 91 : Starcevich_47, Veteran_45, GigiOuiOui_44, SiSi_47, Mantra_44, Wee_50, Karhdo_46, GUmbie_45, Tweety_47, Hamulus_48, BuzzLyseyear_52, Vivum_50
• Track 92 : IrishSherpFalk_47, WillSterrel_47, Spartacus_47
• Track 93 : LilMoolah_46, Nivrat_45
• Track 94 : Ogopogo_48, DillTech15_46, DaWorst_49, Cheesepuff_53
• Track 95 : SeaLumen_52, NewHope4_49, Soul22_51, Polo2Bam_54, Enzomatic_54, Whatsapiecost_45
• Track 96 : SuperGrey_48, Brushbloom_50, Fruitloop_46
• Track 97 : Latretium_50
• Track 98 : OwlsT2W_45, TDanisky_50, Gandalph_47, EmiMonkey_44, PhlipPhlop_46, Sparkdehlily_50
• Track 99 : Firehouse51_47, DosHalletts_47
• Track 100 : Kimberlium_48, MulchExplorer_48, QuickMath_47
• Track 101 : PMC_42, Boomer_50, Topiatin_52, Pollywog_46, Rockne_45
• Track 102 : Sabbb_52
• Track 103 : Eradicator_39
• Track 104 : JalFarm20_56, Blarby_58
• Track 105 : Frankie_51
• Track 106 : PhesterPhotato_49, Phalconet_46, Okabe_43
• Track 107 : Aubs_45
• Track 108 : Krakatau_45, Beanstalk_48, MadMen_42
• Track 109 : Coco12_44, Rialto_51, BigPhil_42, Cerasum_42, Brookers_43, Sarma624_43, Kingsley_42, Velveteen_41
• Track 110 : Saal_49, Philus_50, Mattes_50, DRBy19_49, BobaPhett_49, Gorge_51, ByChance_37, SwagPigglett_52, James_50
• Track 111 : Seagreen_48
• Track 112 : Jennelsea_44, LastJedi_41
• Track 113 : Doug_47
• Track 114 : ShroomBoi_47
• Track 115 : Minnie_50
• Track 116 : Yorick_45, Plumbus_47, Phatniss_45
• Track 117 : Emmaloid_48, DotProduct_44, Totinger_47, Slim_48
• Track 118 : Juniper1_44
• Track 119 : Wachhund_49
• Track 120 : Royals2015_48
• Track 121 : LunaBlu_50, Galactic_47
• Track 122 : Kersh_48
• Track 123 : KristaRAM_47
• Track 124 : Quico_55, Florinda_57
• Track 125 : Che8_49
• Track 126 : Sandalphon_49
• Track 127 : RockyHorror_48, Phasih_45, Zerg_46
• Track 128 : Harley_50
• Track 129 : Mwanjiwa_53

• Track 130 : EleanorGeorge_45
• Track 131 : Alexphander_52
• Track 132 : Beakin_49, Jant_52
• Track 133 : SimranZ1_47
• Track 134 : Byougenkin_44
• Track 135 : Bubbles123_44
• Track 136 : LittleShirley_47
• Track 137 : BodEinwohner17_47
• Track 138 : Eish_48
• Track 139 : Grimmer_55
• Track 140 : Dante_47
• Track 141 : Girafales_56
• Track 142 : Fancypants_47
• Track 143 : Cornucopia_51
• Track 144 : Chuckly_47
• Track 145 : Hegedechwinu_46, Juice456_49
• Track 146 : Filuzino_45
• Track 147 : Marker_48
• Track 148 : Yoshi_60
• Track 149 : Demsculpinboyz_56
• Track 150 : Avani_55, Tchotchke_49
• Track 151 : Zapner_59, Jabbawokkie_61
• Track 152 : Che9d_54
• Track 153 : Squirty_40, Brocalys_43, Clifton_42, Donkeykong_46, Zizzle_51, LordVader_41, Pippy_45
• Track 154 : Cornie_39, Mahavrat_44
• Track 155 : Toron_46
• Track 156 : Island3_36, HC_34, Babsiella_36, Xula_31, Brujita_36, QueenHazel_32
• Track 157 : Sbash_45
• Track 158 : Stuck_49, Bluvara_42
• Track 159 : JoeDirt_59, CicholasNage_59, Tyson_60, Wyatt2_61, AvadaKedavra_60, Poochiewood_60, Acquire49_60, Silverleaf_60, Rose5_60
• Track 160 : Enceladus_58
• Track 161 : Baudelaire_91, Aegeus_91
• Track 162 : Brusacoram_34, Bunnies_34, Juniormint_34, Thespis_34, Ksquared_34, Jebeks_35, Atcoo_34
• Track 163 : KilKor_34, Phalm_34, Willsammy_33, StressBall_34, Glaske_34, Polkaroo_34, Jung_33, Megiddo_34, CactusJack_34, Gavriela_34
• Track 164 : Phineas_34, Kari_34, Mangethe_34, Majeke_34, Vidya_34, Chubbello_34, Phegasus_34, Fishburne_34, BronnyJr_34, Zilizebeth_34, Bartholomew_33, Venti_34, Dynamo_34, Necropolis_34, FirstPlacePfu_34
• Track 165 : Arib1_34, Langerak_34, GaloreK_34
• Track 166 : GreaseLightnin_34
• Track 167 : StevieRay_34
• Track 168 : HUHilltop_34
• Track 169 : Shipwreck_36, Pygmy_36, Camster_34, Malithi_34, Bogie_36
• Track 170 : Etoile_34, Techage_34
• Track 171 : Bhagsy_34, PeanutPie_34
• Track 172 : Donovan_34
• Track 173 : Sonah_34
• Track 174 : Xavia_42, Tortellini_40
• Track 175 : Nazo_38, BigNuz_37
• Track 176 : ThulaThula_38

• Track 177 : Phayonce_36
• Track 178 : Purky_41
• Track 179 : Bubbykins_83
• Track 180 : REQ2_43
• Track 181 : Gallia_8
• Track 182 : Juicebox_36
• Track 183 : P1201_08
• Track 184 : GMA4_34
• Track 185 : MooMoo_44, TChen_47, LunaStella_45
• Track 186 : GMA1_36
• Track 187 : GAL1_34
• Track 188 : GAL1_39
• Track 189 : LilSpotty_46
• Track 190 : Min1_10
• Track 191 : Finkle_50

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

The start number called the most often in the published annotations is 57, it was called in 72 of the 358 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Beakin_49, Beanstalk_48, Blexus_45, BlueCrab_45, Boomer_50, Brushbloom_50, BuzzLyseyear_52, Che9d_54, Cheesepuff_53, Chuckly_47, Cornucopia_51, DaWorst_49, Dante_47, Demsculpinboyz_56, DillTech15_46, Doomphist_47, Doomslug_55, Dorothy_44, DotProduct_44, Eish_48, Emmaloid_48, Estave1_48, Fastidio_49, Filuzino_45, Frankie_51, Fruitloop_46, GUmbie_45, GigiOuiOui_44, Girr_48, Grimmer_55, Hamulus_48, Harley_50, Jant_52, Job42_48, Karhdo_46, Krakatau_45, KristaRAM_47, Latretium_50, LilMoolah_46, LittleShirley_47, MadMen_42, Madiba_43, Mantra_44, Marker_48, MisterCuddles_47, Mwanjiwa_53, Nivrat_45, Ogopogo_48, Okabe_43, PMC_42, Phalconet_46, Phasih_45, PhesterPhotato_49, Poenanya_47, Pollywog_46, PopTart_43, RedBird_44, Rockne_45, RockyHorror_48, Ruby_46, SassyB_43, Seagreen_48, ShroomBoi_47, SiSi_47, SimranZ1_47, Slim_48, Stap_46, Starcevich_47, SuperGrey_48, Topiatin_52, Totinger_47, Tweety_47, Veteran_45, Vivum_50, Wee_50, Yoshi_60, Zerg_46,

Genes that have the "Most Annotated" start but do not call it:
• BearBQ_54,

Genes that do not have the "Most Annotated" start:
• Acquire49_60, Adelaide_30, Aegeus_91, Agueybana_50, Alexphander_52, Aloeri_46, AlumE_48, Anatole_33, Angelique_48, Annalisa_45, Antonio_48, Apricot_58, ArchiDore_46, Arib1_34, Asapag_56, Atcoo_34, Attis_43, Aubs_45, AvadaKedavra_60, Avani_55, Awesomesauce_46, Azula_47, B22_33, B3_32, Babsiella_36, Bartholomew_33, Baudelaire_91, BaxterFox_47, Begonia_44, Bhagsy_34, Bialota_46, BigNuz_37, BigPhil_42, Birdsong_56, Blarby_58, Blino_49, Blueberry_46, Bluvara_42, BobaPhett_49, BodEinwohner17_47, Bogie_36, BotCity_59, BoyNamedSue_48, Bradissa_43, Bran_33, BritBrat_51, Brocalys_43, BronnyJr_34, Brookers_43, Brujita_36, Brusacoram_34, Bubbles123_44,

Bubbykins_83, Budski_63, Bunnies_34, Bunnybear_41, ByChance_37, Byougenkin_44, CactusJack_34, Camster_34, CarolAnn_48, Cashline_45, Caterpie_51, Cerasum_42, Che8_49, CheeseSpider_48, CheeseTouch_62, ChickenDinner_45, Chubbello_34, CicholasNage_59, Clank_49, Clifton_42, Clown_59, Coco12_44, Confidence_45, Cornie_39, Crater_58, DRBy19_49, Dillpickles_53, Dina_30, DirtMcgirt_46, DocMcStuffins_45, Dolores_48, Donkeykong_46, Donovan_34, Dori_51, DosHalletts_47, Doucette_35, Doug_47, Drago_46, DumpsterDude_48, Dynamo_34, E1_33, E6_36, Easley_43, EdnaMode_42, EleanorGeorge_45, EmiMonkey_44, EnalisNailo_42, Enceladus_58, Enzomatic_54, Eradicator_39, Etoile_34, Eudoria_48, Faith5x5_37, Fancypants_47, Fenry_43, Finkle_50, Firehouse51_47, FirstPlacePfu_34, Fishburne_34, Florinda_57, FroggyToad_47, Frokostdame_47, G4_33, GAL1_34, GAL1_39, GMA1_36, GMA4_34, Galactic_47, Gallia_8, Gallop_41, GaloreK_34, Gambino_49, Gandalph_47, Gavriela_34, Getalong_59, Girafales_56, Glaske_34, Gorge_51, GreaseLightnin_34, HC_34, HUHilltop_34, Hegedechwinu_46, Holliday_59, Hyzer_52, InLimbo_43, IrishSherpFalk_47, Island3_36, Jabbawokkie_61, Jablanski_48, JalFarm20_56, Jalammah_48, James_50, Jebeks_35, Jennelsea_44, JoeDirt_59, JohnLord_53, JuJu_50, Juice456_49, Juicebox_36, Jung_33, Juniormint_34, Juniper1_44, KappaFarmDelta_46, Kari_34, Kenna_56, Kersh_48, KilKor_34, Kimberlium_48, Kingsley_42, Kita_49, Ksquared_34, Kuwabara_52, Langerak_34, LastJedi_41, Leozinho_47, Leroy_58, LilSpotty_46, Lilas_45, Llij_44, LordFarquaad_45, LordVader_41, Lucia_46, LunaBlu_50, LunaStella_45, Lutum_61, Lysidious_44, Madavieve_43, Mahavrat_44, Majeke_34, MakCheese_59, Malachai_44, Malisha_52, Malithi_34, Manasvini_49, Mangethe_34, Mao1_50, Maravista_47, Maridalia_49, Mask_52, Mattes_50, Megiddo_34, Mellie_43, MicyPS_67, MilleniumForce_46, Min1_10, Minnie_50, Misha28_44, MissRona_47, MooMoo_44, MortyNRick_52, MulchExplorer_48, Murp_47, Mutaforma13_49, Nazo_38, Necropolis_34, Neobush_48, NewHope4_49, ODay_62, OlympiaSaint_47, Oregano_48, OwlsT2W_45, P1201_08, PantheRoc_46, PeanutPie_34, Pepperoni_38, Periwinkle_67, Phabba_184, Phabuloso_58, Phalm_34, Phatniss_45, Phayonce_36, Phegasus_34, Philus_50, Phineas_34, Phistory_58, PhlipPhlop_46, PhorbesPhlower_43, PhriskyACE_44, Pickett_41, Piper2020_46, Pippy_45, Plumbus_47, Polkaroo_34, Polly_45, Polo2Bam_54, Poochiewood_60, Posh_50, Purky_41, Pygmy_36, Pytheas_48, QueenHazel_32, QuickMath_47, Quico_55, REQ2_43, Rialto_51, Rose5_60, Royals2015_48, Ruthy_46, Saal_49, Sabbb_52, Samba_44, Sandalphon_49, Sarma624_43, Sbash_45, SeaLumen_52, Sejanus_49, Shipwreck_36, Sidious_48, Silverleaf_60, SoilAssassin_43, Soilmate_51, Sonah_34, Soul22_51, Sparkdehlily_50, Spartacus_47, Spartan_37, Sprinklemunch_54, Squirty_40, StevieRay_34, StressBall_34, Stuck_49, Suscepit_48, SushiChef_45, SwagPigglett_52, TChen_47, TDanisky_50, Tayonia_48, Tchotchke_49, Techage_34, ThankyouJordi_47, Thespis_34, ThulaThula_38, TootsiePop_44, Tootsieroll_49, Toron_46, Tortellini_40, Trumpet_48, Tyson_60, UncleRicky_47, Utz_39, Velveteen_41, Venti_34, Vidya_34, Violac_49, Wachhund_49, WelcomeAyanna_47, Whatsapiecost_45, Whitney_56, WillSterrel_47, Willsammy_33, WinkNick_49, Wisp_42, Wocket_45, Wrigley_52, Wyatt2_61, Xavia_42, Xula_31, Yeet412_43, Yorick_45, YungMoney_53, Zameen_48, Zapner_59, ZiggyZoo_46, Zilizebeth_34, Zirinka_45, Zizzle_51, Zodiariah_46,

Summary by start number:

Start 57:
• Found in 78 of 397 (19.6%) of genes in pham
• Manual Annotations of this start: 72 of 358

• Called 98.7% of time when present
• Phage (with cluster) where this start called: Beakin_49 (F1), Beanstalk_48 (F1), Blexus_45 (F1), BlueCrab_45 (F1), Boomer_50 (F1), Brushbloom_50 (F1), BuzzLyseyear_52 (F1), Che9d_54 (F2), Cheesepuff_53 (F1), Chuckly_47 (F1), Cornucopia_51 (F1), DaWorst_49 (F1), Dante_47 (F1), Demsculpinboyz_56 (F2), DillTech15_46 (F1), Doomphist_47 (F1), Doomslug_55 (F), Dorothy_44 (F1), DotProduct_44 (F1), Eish_48 (F1), Emmaloid_48 (F1), Estave1_48 (F1), Fastidio_49 (F1), Filuzino_45 (F1), Frankie_51 (F1), Fruitloop_46 (F1), GUmbie_45 (F1), GigiOuiOui_44 (F1), Girr_48 (F1), Grimmer_55 (F1), Hamulus_48 (F1), Harley_50 (F1), Jant_52 (F1), Job42_48 (F1), Karhdo_46 (F1), Krakatau_45 (F1), KristaRAM_47 (F1), Latretium_50 (F1), LilMoolah_46 (F1), LittleShirley_47 (F1), MadMen_42 (F1), Madiba_43 (F1), Mantra_44 (F1), Marker_48 (F1), MisterCuddles_47 (F1), Mwanjiwa_53 (F1), Nivrat_45 (F1), Ogopogo_48 (F1), Okabe_43 (F8), PMC_42 (F1), Phalconet_46 (F1), Phasih_45 (F1), PhesterPhotato_49 (F1), Poenanya_47 (F1), Pollywog_46 (F1), PopTart_43 (F1), RedBird_44 (F1), Rockne_45 (F1), RockyHorror_48 (F1), Ruby_46 (F1), SassyB_43 (F1), Seagreen_48 (F1), ShroomBoi_47 (F1), SiSi_47 (F1), SimranZ1_47 (F1), Slim_48 (F1), Stap_46 (F1), Starcevich_47 (F1), SuperGrey_48 (F1), Topiatin_52 (F1), Totinger_47 (F1), Tweety_47 (F1), Veteran_45 (F1), Vivum_50 (F1), Wee_50 (F1), Yoshi_60 (F2), Zerg_46 (F1),

Start 72:
• Found in 2 of 397 (0.5%) of genes in pham
• Manual Annotations of this start: 2 of 358
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Angelique_48 (CY1), Cashline_45 (CY6),

Start 73:
• Found in 2 of 397 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 358
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Hyzer_52 (CZ1),

Start 75:
• Found in 4 of 397 (1.0%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Gallia_8 (singleton), P1201_08 (singleton),

Start 76:
• Found in 11 of 397 (2.8%) of genes in pham
• Manual Annotations of this start: 9 of 358
• Called 90.9% of time when present
• Phage (with cluster) where this start called: Acquire49_60 (L1), AvadaKedavra_60 (L1), CicholasNage_59 (L1), Enceladus_58 (L1), JoeDirt_59 (L1), Poochiewood_60 (L1), Rose5_60 (L1), Silverleaf_60 (L1), Tyson_60 (L1), Wyatt2_61 (L1),

Start 78:
• Found in 3 of 397 (0.8%) of genes in pham
• Manual Annotations of this start: 1 of 358
• Called 33.3% of time when present

• Phage (with cluster) where this start called: BaxterFox_47 (CZ3),

Start 79:
• Found in 1 of 397 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 358
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kuwabara_52 (DN4),

Start 83:
• Found in 2 of 397 (0.5%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Toron_46 (F6),

Start 84:
• Found in 10 of 397 (2.5%) of genes in pham
• Manual Annotations of this start: 10 of 358
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aloeri_46 (F1), Awesomesauce_46 (F1), ChickenDinner_45 (F1), DocMcStuffins_45 (F1), LunaStella_45 (F4), Misha28_44 (F1), MooMoo_44 (singleton), Piper2020_46 (F1), TChen_47 (F4), TootsiePop_44 (F1),

Start 85:
• Found in 3 of 397 (0.8%) of genes in pham
• Manual Annotations of this start: 3 of 358
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Adelaide_30 (EP), Bran_33 (EP), Dina_30 (EP),

Start 86:
• Found in 11 of 397 (2.8%) of genes in pham
• Manual Annotations of this start: 8 of 358
• Called 90.9% of time when present
• Phage (with cluster) where this start called: Bluvara_42 (I3), BritBrat_51 (CY2), CheeseTouch_62 (DN1), Jabbawokkie_61 (F2), LilSpotty_46 (singleton), ODay_62 (DN), REQ2_43 (singleton), Stuck_49 (I2), Zapner_59 (F2), Zodiariah_46 (DW),

Start 88:
• Found in 1 of 397 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 358
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Leroy_58 (DN1),

Start 89:
• Found in 2 of 397 (0.5%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: JohnLord_53 (AD),

Start 91:
• Found in 1 of 397 (0.3%) of genes in pham
• No Manual Annotations of this start.

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gallop_41 (ES),

Start 92:
• Found in 1 of 397 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 358
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Finkle_50 (singleton),

Start 94:
• Found in 34 of 397 (8.6%) of genes in pham
• Manual Annotations of this start: 20 of 358
• Called 64.7% of time when present
• Phage (with cluster) where this start called: Antonio_48 (CZ1), Attis_43 (CZ2), Bialota_46 (CZ1), BobaPhett_49 (F1), ByChance_37 (F1), DRBy19_49 (F1), Dillpickles_53 (CZ1), EdnaMode_42 (CZ2), FroggyToad_47 (CZ2), Gorge_51 (F1), James_50 (F1), Kita_49 (CZ1), LordFarquaad_45 (CZ2), Manasvini_49 (CZ1), Mattes_50 (F1), Philus_50 (F1), Pickett_41 (CZ2), Saal_49 (F1), SoilAssassin_43 (CZ2), SwagPigglett_52 (F1), Yeet412_43 (CZ2), Zirinka_45 (CZ1),

Start 95:
• Found in 1 of 397 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 358
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Sbash_45 (I2),

Start 96:
• Found in 11 of 397 (2.8%) of genes in pham
• Manual Annotations of this start: 7 of 358
• Called 63.6% of time when present
• Phage (with cluster) where this start called: ArchiDore_46 (DW), Bradissa_43 (CY1), Confidence_45 (CY1), DumpsterDude_48 (DW), Lilas_45 (CY1), Posh_50 (CY4), Ruthy_46 (DW),

Start 101:
• Found in 2 of 397 (0.5%) of genes in pham
• Manual Annotations of this start: 2 of 358
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ThankyouJordi_47 (CZ1), WelcomeAyanna_47 (CZ1),

Start 102:
• Found in 2 of 397 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 358
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GAL1_34 (singleton), Malisha_52 (DN),

Start 103:
• Found in 11 of 397 (2.8%) of genes in pham
• Manual Annotations of this start: 4 of 358
• Called 45.5% of time when present
• Phage (with cluster) where this start called: EnalisNailo_42 (CY1), Jablanski_48 (CY3), MakCheese_59 (DW), PantheRoc_46 (CZ3), Pytheas_48 (CY3),

Start 104:
• Found in 70 of 397 (17.6%) of genes in pham
• Manual Annotations of this start: 64 of 358
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alexphander_52 (F1), Aubs_45 (F1), Avani_55 (F2), BigPhil_42 (F1), Blarby_58 (F), Brookers_43 (F1), Bubbles123_44 (F1), Byougenkin_44 (F1), Cerasum_42 (F1), Che8_49 (F1), Clank_49 (F), Coco12_44 (F1), Cornie_39 (F5), DirtMcgirt_46 (F1), Doug_47 (F1), Drago_46 (F1), EleanorGeorge_45 (F1), EmiMonkey_44 (F1), Enzomatic_54 (F1), Eradicator_39 (F1), Fancypants_47 (F1), Galactic_47 (F1), Gandalph_47 (F1), Hegedechwinu_46 (F1), IrishSherpFalk_47 (F1), JalFarm20_56 (F1), Juice456_49 (F1), Juniper1_44 (F1), Kersh_48 (F1), Kimberlium_48 (F1), Kingsley_42 (F1), Leozinho_47 (F1), Llij_44 (F1), Lucia_46 (F1), LunaBlu_50 (F1), Mahavrat_44 (F1), Maravista_47 (F1), MilleniumForce_46 (F1), Minnie_50 (F1), MulchExplorer_48 (F1), Mutaforma13_49 (F1), NewHope4_49 (F1), OlympiaSaint_47 (F1), OwlsT2W_45 (F1), Phatniss_45 (F1), PhlipPhlop_46 (F1), Plumbus_47 (F1), Polo2Bam_54 (F1), QuickMath_47 (F1), Rialto_51 (F1), Royals2015_48 (F1), Sabbb_52 (F1), Sandalphon_49 (F1), Sarma624_43 (F1), SeaLumen_52 (F1), Sejanus_49 (AD), Soul22_51 (F2), Sparkdehlily_50 (F1), Spartacus_47 (F1), TDanisky_50 (F1), Tchotchke_49 (F1), ThulaThula_38 (P5), Tootsieroll_49 (F1), UncleRicky_47 (F1), Velveteen_41 (F1), Violac_49 (F1), Wachhund_49 (F1), Whatsapiecost_45 (F1), WillSterrel_47 (F1), Yorick_45 (F1),

Start 105:
• Found in 34 of 397 (8.6%) of genes in pham
• Manual Annotations of this start: 18 of 358
• Called 55.9% of time when present
• Phage (with cluster) where this start called: Agueybana_50 (CZ1), AlumE_48 (CZ1), BoyNamedSue_48 (CZ1), Bunnybear_41 (CZ), CheeseSpider_48 (CV), Eudoria_48 (CZ1), Frokostdame_47 (CV), JuJu_50 (CV), Lysidious_44 (CV), Maridalia_49 (CZ1), Neobush_48 (CZ1), Periwinkle_67 (DN1), Polly_45 (CZ1), Sidious_48 (CZ7), Suscepit_48 (CZ1), SushiChef_45 (CZ), Tayonia_48 (CZ1), Trumpet_48 (CZ1), Zameen_48 (CZ1),

Start 106:
• Found in 56 of 397 (14.1%) of genes in pham
• Manual Annotations of this start: 51 of 358
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Arib1_34 (P1), Atcoo_34 (P1), Babsiella_36 (I1), Bartholomew_33 (P1), Bhagsy_34 (P1), Bogie_36 (P1), BronnyJr_34 (P1), Brujita_36 (I1), Brusacoram_34 (P1), Bunnies_34 (P1), CactusJack_34 (P1), Camster_34 (P1), Chubbello_34 (P1), Donovan_34 (P1), Dynamo_34 (P1), Etoile_34 (P1), FirstPlacePfu_34 (P1), Fishburne_34 (P1), GaloreK_34 (P1), Gavriela_34 (P1), Glaske_34 (P1), GreaseLightnin_34 (P1), HC_34 (I1), HUHilltop_34 (P1), Island3_36 (I1), Jebeks_35 (P1), Jung_33 (P1), Juniormint_34 (P1), Kari_34 (P1), KilKor_34 (P1), Ksquared_34 (P1), Langerak_34 (P1), Majeke_34 (P1), Malithi_34 (P1), Mangethe_34 (P1), Mask_52 (AD), Megiddo_34 (P1), Necropolis_34 (P1), PeanutPie_34 (P1), Phalm_34 (P1), Phegasus_34 (P1), Phineas_34 (P1), Polkaroo_34 (P1), Pygmy_36 (P1), QueenHazel_32 (I1), Shipwreck_36 (P1), Sonah_34 (P1), StevieRay_34 (P1), StressBall_34 (P1), Techage_34 (P1), Thespis_34 (P1), Venti_34 (P1), Vidya_34 (P1), Willsammy_33 (P1), Xula_31 (I1), Zilizebeth_34 (P1),

Start 108:
• Found in 10 of 397 (2.5%) of genes in pham
• Manual Annotations of this start: 2 of 358
• Called 30.0% of time when present
• Phage (with cluster) where this start called: Caterpie_51 (AD), Jennelsea_44 (F1), LastJedi_41 (F1),

Start 110:
• Found in 1 of 397 (0.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GAL1_39 (singleton),

Start 111:
• Found in 3 of 397 (0.8%) of genes in pham
• Manual Annotations of this start: 2 of 358
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Holliday_59 (DN1), Phabuloso_58 (DN1),

Start 112:
• Found in 11 of 397 (2.8%) of genes in pham
• No Manual Annotations of this start.
• Called 9.1% of time when present
• Phage (with cluster) where this start called: GMA1_36 (singleton),

Start 114:
• Found in 4 of 397 (1.0%) of genes in pham
• Manual Annotations of this start: 4 of 358
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BigNuz_37 (P4), Nazo_38 (P4), Phayonce_36 (P5), Purky_41 (P6),

Start 115:
• Found in 1 of 397 (0.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GMA4_34 (singleton),

Start 120:
• Found in 31 of 397 (7.8%) of genes in pham
• No Manual Annotations of this start.
• Called 3.2% of time when present
• Phage (with cluster) where this start called: Spartan_37 (ES),

Start 121:
• Found in 19 of 397 (4.8%) of genes in pham
• Manual Annotations of this start: 15 of 358
• Called 78.9% of time when present
• Phage (with cluster) where this start called: Brocalys_43 (F1), Clifton_42 (F1), Donkeykong_46 (F1), Dori_51 (AD), DosHalletts_47 (F1), Firehouse51_47 (F1), Florinda_57 (F1), Girafales_56 (F1), LordVader_41 (F), Pippy_45 (F1), Quico_55

(F1), Squirty_40 (F3), Tortellini_40 (P2), Xavia_42 (P3), Zizzle_51 (F1),

Start 122:
• Found in 5 of 397 (1.3%) of genes in pham
• Manual Annotations of this start: 1 of 358
• Called 40.0% of time when present
• Phage (with cluster) where this start called: Mao1_50 (AD), Sprinklemunch_54 (DW),

Start 123:
• Found in 10 of 397 (2.5%) of genes in pham
• Manual Annotations of this start: 10 of 358
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Apricot_58 (DN3), Asapag_56 (DN1), Birdsong_56 (DN), BotCity_59 (DN), Budski_63 (DN), Crater_58 (DN3), Getalong_59 (DN1), Kenna_56 (DN1), Lutum_61 (DN1), Whitney_56 (DN1),

Start 125:
• Found in 3 of 397 (0.8%) of genes in pham
• Manual Annotations of this start: 1 of 358
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Juicebox_36 (singleton),

Start 128:
• Found in 1 of 397 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 358
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bubbykins_83 (UNK),

Start 129:
• Found in 4 of 397 (1.0%) of genes in pham
• Manual Annotations of this start: 1 of 358
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Phabba_184 (C2),

Start 130:
• Found in 1 of 397 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 358
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Phistory_58 (DN1),

Start 131:
• Found in 17 of 397 (4.3%) of genes in pham
• Manual Annotations of this start: 11 of 358
• Called 76.5% of time when present
• Phage (with cluster) where this start called: Annalisa_45 (CZ4), BearBQ_54 (DN), Dolores_48 (CZ4), Easley_43 (CZ4), Faith5x5_37 (CZ6), InLimbo_43 (DH), Madavieve_43 (CZ1), Oregano_48 (CZ4), Pepperoni_38 (CZ), PhorbesPhlower_43 (DH), PhriskyACE_44 (CZ4), WinkNick_49 (CZ4), Wrigley_52 (CY4),

Start 132:
• Found in 73 of 397 (18.4%) of genes in pham
• Manual Annotations of this start: 1 of 358

• Called 1.4% of time when present
• Phage (with cluster) where this start called: YungMoney_53 (DC1),

Start 133:
• Found in 18 of 397 (4.5%) of genes in pham
• Manual Annotations of this start: 5 of 358
• Called 27.8% of time when present
• Phage (with cluster) where this start called: B22_33 (BW), B3_32 (BV), Doucette_35 (BW), G4_33 (BW), MicyPS_67 (EQ),

Start 136:
• Found in 1 of 397 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 358
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Clown_59 (DC2),

Start 137:
• Found in 98 of 397 (24.7%) of genes in pham
• Manual Annotations of this start: 19 of 358
• Called 20.4% of time when present
• Phage (with cluster) where this start called: Azula_47 (CV), Begonia_44 (CV), Blino_49 (CV), Blueberry_46 (CV), BodEinwohner17_47 (F1), CarolAnn_48 (CV), Fenry_43 (CV), Gambino_49 (CV), Jalammah_48 (CV), KappaFarmDelta_46 (CV), Malachai_44 (CV), Mellie_43 (CV), MissRona_47 (CV), Murp_47 (CV), Samba_44 (CV), Soilmate_51 (CV), Utz_39 (CV), Wisp_42 (CV), Wocket_45 (CV), ZiggyZoo_46 (CV),

Start 138:
• Found in 3 of 397 (0.8%) of genes in pham
• Manual Annotations of this start: 3 of 358
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Anatole_33 (BV), E1_33 (BV), E6_36 (BW),

Start 142:
• Found in 13 of 397 (3.3%) of genes in pham
• Manual Annotations of this start: 2 of 358
• Called 15.4% of time when present
• Phage (with cluster) where this start called: Aegeus_91 (L5), Baudelaire_91 (L5),

Start 159:
• Found in 11 of 397 (2.8%) of genes in pham
• Manual Annotations of this start: 1 of 358
• Called 9.1% of time when present
• Phage (with cluster) where this start called: MortyNRick_52 (DN),

Start 161:
• Found in 5 of 397 (1.3%) of genes in pham
• No Manual Annotations of this start.
• Called 20.0% of time when present
• Phage (with cluster) where this start called: Min1_10 (singleton),

Summary by clusters:

There are 49 clusters represented in this pham: DN, P2, singleton, I2, DH, P3, CZ2, CZ3, CZ1, CZ6, CZ7, CZ4, BV, BW, DW, CY6, I1, DC2, I3, CY4, EP, DN4, DN1, DN3, C2, P5, CY3, CY2, CY1, P1, P6, AD, P4, F, CZ, L5, L1, UNK, EQ, CV, ES, DC1, F1, F2, F3, F4, F5, F6, F8,

Info for manual annotations of cluster AD:
•Start number 104 was manually annotated 1 time for cluster AD.
•Start number 106 was manually annotated 1 time for cluster AD.
•Start number 121 was manually annotated 1 time for cluster AD.
•Start number 122 was manually annotated 1 time for cluster AD.

Info for manual annotations of cluster BV:
•Start number 133 was manually annotated 1 time for cluster BV.
•Start number 138 was manually annotated 2 times for cluster BV.

Info for manual annotations of cluster BW:
•Start number 133 was manually annotated 3 times for cluster BW.
•Start number 138 was manually annotated 1 time for cluster BW.

Info for manual annotations of cluster C2:
•Start number 129 was manually annotated 1 time for cluster C2.

Info for manual annotations of cluster CV:
•Start number 105 was manually annotated 4 times for cluster CV.
•Start number 137 was manually annotated 18 times for cluster CV.

Info for manual annotations of cluster CY1:
•Start number 72 was manually annotated 1 time for cluster CY1.
•Start number 96 was manually annotated 3 times for cluster CY1.
•Start number 103 was manually annotated 1 time for cluster CY1.

Info for manual annotations of cluster CY2:
•Start number 86 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster CY3:
•Start number 103 was manually annotated 2 times for cluster CY3.

Info for manual annotations of cluster CY4:
•Start number 96 was manually annotated 1 time for cluster CY4.
•Start number 131 was manually annotated 1 time for cluster CY4.

Info for manual annotations of cluster CY6:
•Start number 72 was manually annotated 1 time for cluster CY6.

Info for manual annotations of cluster CZ:
•Start number 105 was manually annotated 1 time for cluster CZ.
•Start number 131 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ1:
•Start number 73 was manually annotated 1 time for cluster CZ1.
•Start number 94 was manually annotated 5 times for cluster CZ1.
•Start number 101 was manually annotated 2 times for cluster CZ1.

•Start number 105 was manually annotated 11 times for cluster CZ1.

Info for manual annotations of cluster CZ2:
•Start number 94 was manually annotated 6 times for cluster CZ2.

Info for manual annotations of cluster CZ3:
•Start number 78 was manually annotated 1 time for cluster CZ3.
•Start number 103 was manually annotated 1 time for cluster CZ3.

Info for manual annotations of cluster CZ4:
•Start number 131 was manually annotated 6 times for cluster CZ4.

Info for manual annotations of cluster CZ6:
•Start number 131 was manually annotated 1 time for cluster CZ6.

Info for manual annotations of cluster CZ7:
•Start number 105 was manually annotated 1 time for cluster CZ7.

Info for manual annotations of cluster DC1:
•Start number 132 was manually annotated 1 time for cluster DC1.

Info for manual annotations of cluster DC2:
•Start number 136 was manually annotated 1 time for cluster DC2.

Info for manual annotations of cluster DH:
•Start number 131 was manually annotated 1 time for cluster DH.

Info for manual annotations of cluster DN:
•Start number 86 was manually annotated 1 time for cluster DN.
•Start number 102 was manually annotated 1 time for cluster DN.
•Start number 123 was manually annotated 3 times for cluster DN.
•Start number 131 was manually annotated 1 time for cluster DN.
•Start number 159 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster DN1:
•Start number 86 was manually annotated 1 time for cluster DN1.
•Start number 88 was manually annotated 1 time for cluster DN1.
•Start number 105 was manually annotated 1 time for cluster DN1.
•Start number 111 was manually annotated 2 times for cluster DN1.
•Start number 123 was manually annotated 5 times for cluster DN1.
•Start number 130 was manually annotated 1 time for cluster DN1.

Info for manual annotations of cluster DN3:
•Start number 123 was manually annotated 2 times for cluster DN3.

Info for manual annotations of cluster DN4:
•Start number 79 was manually annotated 1 time for cluster DN4.

Info for manual annotations of cluster DW:
•Start number 86 was manually annotated 1 time for cluster DW.
•Start number 96 was manually annotated 3 times for cluster DW.

Info for manual annotations of cluster EP:

•Start number 85 was manually annotated 3 times for cluster EP.

Info for manual annotations of cluster EQ:
•Start number 133 was manually annotated 1 time for cluster EQ.

Info for manual annotations of cluster F:
•Start number 121 was manually annotated 1 time for cluster F.

Info for manual annotations of cluster F1:
•Start number 57 was manually annotated 69 times for cluster F1.
•Start number 84 was manually annotated 7 times for cluster F1.
•Start number 94 was manually annotated 9 times for cluster F1.
•Start number 104 was manually annotated 59 times for cluster F1.
•Start number 108 was manually annotated 2 times for cluster F1.
•Start number 121 was manually annotated 10 times for cluster F1.
•Start number 137 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster F2:
•Start number 57 was manually annotated 3 times for cluster F2.
•Start number 86 was manually annotated 2 times for cluster F2.
•Start number 104 was manually annotated 2 times for cluster F2.

Info for manual annotations of cluster F3:
•Start number 121 was manually annotated 1 time for cluster F3.

Info for manual annotations of cluster F4:
•Start number 84 was manually annotated 2 times for cluster F4.

Info for manual annotations of cluster F5:
•Start number 104 was manually annotated 1 time for cluster F5.

Info for manual annotations of cluster I1:
•Start number 106 was manually annotated 6 times for cluster I1.

Info for manual annotations of cluster I2:
•Start number 86 was manually annotated 1 time for cluster I2.
•Start number 95 was manually annotated 1 time for cluster I2.

Info for manual annotations of cluster L1:
•Start number 76 was manually annotated 9 times for cluster L1.

Info for manual annotations of cluster L5:
•Start number 142 was manually annotated 2 times for cluster L5.

Info for manual annotations of cluster P1:
•Start number 106 was manually annotated 44 times for cluster P1.

Info for manual annotations of cluster P2:
•Start number 121 was manually annotated 1 time for cluster P2.

Info for manual annotations of cluster P3:
•Start number 121 was manually annotated 1 time for cluster P3.

Info for manual annotations of cluster P4:
•Start number 114 was manually annotated 2 times for cluster P4.

Info for manual annotations of cluster P5:
•Start number 104 was manually annotated 1 time for cluster P5.
•Start number 114 was manually annotated 1 time for cluster P5.

Info for manual annotations of cluster P6:
•Start number 114 was manually annotated 1 time for cluster P6.

Info for manual annotations of cluster UNK:
•Start number 128 was manually annotated 1 time for cluster UNK.

Gene Information:

Gene: Acquire49_60 Start: 42360, Stop: 43178, Start Num: 76
Candidate Starts for Acquire49_60:
(Start: 76 @42360 has 9 MA's), (90, 42387), (112, 42414), (118, 42426), (154, 42486), (181, 42561), (188, 42573), (231, 42663), (236, 42669), (289, 42774), (315, 42804), (354, 42909), (392, 43032), (418, 43107), (425, 43122),

Gene: Adelaide_30 Start: 26443, Stop: 27321, Start Num: 85
Candidate Starts for Adelaide_30:
(Start: 85 @26443 has 3 MA's), (140, 26545), (141, 26548), (146, 26554), (161, 26590), (222, 26728), (338, 27007), (398, 27211), (425, 27277), (427, 27280), (437, 27301),

Gene: Aegeus_91 Start: 56094, Stop: 56897, Start Num: 142
Candidate Starts for Aegeus_91:
(Start: 142 @56094 has 2 MA's), (155, 56127), (158, 56136), (169, 56169), (171, 56175), (176, 56187), (185, 56208), (262, 56373), (265, 56376), (296, 56457), (341, 56595), (364, 56655), (367, 56670), (377, 56709), (391, 56757), (437, 56877),

Gene: Agueybana_50 Start: 37589, Stop: 38413, Start Num: 105
Candidate Starts for Agueybana_50:
(Start: 94 @37577 has 20 MA's), (Start: 105 @37589 has 18 MA's), (153, 37691), (189, 37778), (276, 37949), (322, 38054), (353, 38150), (397, 38303), (410, 38339), (438, 38399),

Gene: Alexphander_52 Start: 35997, Stop: 36857, Start Num: 104
Candidate Starts for Alexphander_52:
(Start: 104 @35997 has 64 MA's), (154, 36093), (186, 36177), (202, 36210), (214, 36243), (236, 36288), (249, 36315), (270, 36363), (317, 36435), (320, 36453), (321, 36456), (368, 36603), (369, 36606), (376, 36630), (394, 36693), (399, 36714), (451, 36822),

Gene: Aloeri_46 Start: 34616, Stop: 35476, Start Num: 84
Candidate Starts for Aloeri_46:
(70, 34577), (Start: 84 @34616 has 10 MA's), (126, 34700), (Start: 133 @34712 has 5 MA's), (135, 34718), (147, 34742), (160, 34781), (165, 34796), (238, 34946), (243, 34958), (252, 34979), (332,

35162), (375, 35291), (393, 35351), (409, 35399), (426, 35438),

Gene: AlumE_48 Start: 36089, Stop: 36913, Start Num: 105
Candidate Starts for AlumE_48:
(Start: 94 @36077 has 20 MA's), (Start: 105 @36089 has 18 MA's), (153, 36191), (189, 36278), (276, 36449), (322, 36554), (353, 36650), (397, 36803), (410, 36839), (438, 36899),

Gene: Anatole_33 Start: 24569, Stop: 25372, Start Num: 138
Candidate Starts for Anatole_33:
(Start: 138 @24569 has 3 MA's), (187, 24692), (189, 24695), (208, 24734), (219, 24761), (229, 24785), (248, 24821), (260, 24848), (272, 24881), (285, 24908), (292, 24929), (297, 24938), (307, 24956), (308, 24959), (322, 25001), (332, 25031), (336, 25043), (346, 25076), (363, 25121), (386, 25211), (409, 25277), (410, 25280), (431, 25328), (446, 25361),

Gene: Angelique_48 Start: 37247, Stop: 38128, Start Num: 72
Candidate Starts for Angelique_48:
(40, 37127), (50, 37157), (Start: 72 @37247 has 2 MA's), (75, 37259), (Start: 94 @37292 has 20 MA's), (Start: 105 @37304 has 18 MA's), (153, 37406), (189, 37493), (236, 37580), (267, 37640), (322, 37769), (353, 37865), (363, 37892), (410, 38054), (438, 38114),

Gene: Annalisa_45 Start: 33306, Stop: 34055, Start Num: 131
Candidate Starts for Annalisa_45:
(65, 33153), (107, 33261), (Start: 131 @33306 has 11 MA's), (146, 33336), (155, 33363), (158, 33372), (205, 33489), (219, 33516), (229, 33540), (238, 33555), (253, 33585), (302, 33675), (304, 33678), (378, 33900),

Gene: Antonio_48 Start: 35350, Stop: 36186, Start Num: 94
Candidate Starts for Antonio_48:
(Start: 94 @35350 has 20 MA's), (Start: 105 @35362 has 18 MA's), (153, 35464), (189, 35551), (276, 35722), (322, 35827), (353, 35923), (397, 36076), (410, 36112), (438, 36172),

Gene: Apricot_58 Start: 37168, Stop: 37944, Start Num: 123
Candidate Starts for Apricot_58:
(Start: 123 @37168 has 10 MA's), (206, 37342), (220, 37372), (244, 37420), (353, 37678), (379, 37771),

Gene: ArchiDore_46 Start: 36606, Stop: 37415, Start Num: 96
Candidate Starts for ArchiDore_46:
(Start: 96 @36606 has 7 MA's), (113, 36636), (154, 36714), (157, 36720), (162, 36735), (202, 36831), (318, 37068), (352, 37170), (387, 37284), (421, 37371),

Gene: Arib1_34 Start: 27945, Stop: 28808, Start Num: 106
Candidate Starts for Arib1_34:
(Start: 106 @27945 has 51 MA's), (148, 28026), (154, 28050), (158, 28059), (167, 28086), (176, 28107), (221, 28203), (224, 28212), (230, 28227), (236, 28236), (283, 28338), (347, 28521), (366, 28575), (402, 28704), (421, 28746), (448, 28794),

Gene: Asapag_56 Start: 36674, Stop: 37453, Start Num: 123
Candidate Starts for Asapag_56:
(Start: 123 @36674 has 10 MA's), (244, 36929), (353, 37187), (379, 37280), (409, 37376),

Gene: Atcoo_34 Start: 28426, Stop: 29292, Start Num: 106
Candidate Starts for Atcoo_34:

(Start: 106 @28426 has 51 MA's), (148, 28507), (154, 28531), (158, 28540), (167, 28567), (176, 28588), (224, 28696), (230, 28711), (283, 28822), (347, 29005), (366, 29059), (402, 29188), (421, 29230), (448, 29278),

Gene: Attis_43 Start: 32483, Stop: 33319, Start Num: 94
Candidate Starts for Attis_43:
(Start: 94 @32483 has 20 MA's), (Start: 105 @32495 has 18 MA's), (153, 32597), (189, 32684), (276, 32855), (322, 32960), (353, 33056), (397, 33209), (410, 33245), (438, 33305),

Gene: Aubs_45 Start: 34886, Stop: 35752, Start Num: 104
Candidate Starts for Aubs_45:
(Start: 104 @34886 has 64 MA's), (154, 34985), (158, 34994), (236, 35165), (249, 35192), (288, 35279), (289, 35282), (293, 35288), (299, 35297), (320, 35348), (321, 35351), (368, 35498), (376, 35525), (394, 35588),

Gene: AvadaKedavra_60 Start: 42433, Stop: 43251, Start Num: 76
Candidate Starts for AvadaKedavra_60:
(Start: 76 @42433 has 9 MA's), (90, 42460), (112, 42487), (118, 42499), (154, 42559), (181, 42634), (188, 42646), (231, 42736), (236, 42742), (289, 42847), (315, 42877), (354, 42982), (392, 43105), (418, 43180), (425, 43195),

Gene: Avani_55 Start: 35200, Stop: 36060, Start Num: 104
Candidate Starts for Avani_55:
(Start: 104 @35200 has 64 MA's), (154, 35296), (186, 35380), (202, 35413), (214, 35446), (236, 35491), (249, 35518), (270, 35566), (317, 35638), (320, 35656), (321, 35659), (368, 35806), (376, 35833), (394, 35896), (399, 35917),

Gene: Awesomesauce_46 Start: 33878, Stop: 34738, Start Num: 84
Candidate Starts for Awesomesauce_46:
(70, 33839), (Start: 84 @33878 has 10 MA's), (126, 33962), (Start: 133 @33974 has 5 MA's), (135, 33980), (147, 34004), (160, 34043), (165, 34058), (238, 34208), (243, 34220), (252, 34241), (332, 34424), (375, 34553), (393, 34613), (409, 34661), (426, 34700),

Gene: Azula_47 Start: 35195, Stop: 35956, Start Num: 137
Candidate Starts for Azula_47:
(Start: 137 @35195 has 19 MA's), (146, 35210), (181, 35312), (195, 35345), (219, 35390), (222, 35399), (229, 35414), (266, 35483), (316, 35579), (341, 35669), (401, 35861),

Gene: B22_33 Start: 23699, Stop: 24502, Start Num: 133
Candidate Starts for B22_33:
(Start: 133 @23699 has 5 MA's), (187, 23822), (189, 23825), (208, 23864), (219, 23891), (229, 23915), (248, 23951), (260, 23978), (272, 24011), (285, 24038), (297, 24068), (308, 24089), (322, 24131), (336, 24173), (346, 24206), (353, 24224), (363, 24251), (410, 24410), (431, 24458), (446, 24491),

Gene: B3_32 Start: 23829, Stop: 24632, Start Num: 133
Candidate Starts for B3_32:
(Start: 133 @23829 has 5 MA's), (187, 23952), (189, 23955), (208, 23994), (219, 24021), (229, 24045), (248, 24081), (260, 24108), (272, 24141), (285, 24168), (292, 24189), (297, 24198), (298, 24201), (307, 24216), (308, 24219), (322, 24261), (326, 24270), (332, 24291), (336, 24303), (353, 24354), (364, 24384), (382, 24453), (410, 24540), (423, 24573), (431, 24588), (446, 24621),

Gene: Babsiella_36 Start: 28877, Stop: 29746, Start Num: 106
Candidate Starts for Babsiella_36:

(Start: 106 @28877 has 51 MA's), (154, 28985), (158, 28994), (176, 29042), (224, 29150), (230, 29165), (283, 29276), (347, 29459), (366, 29513), (402, 29642), (421, 29684), (448, 29732),

Gene: Bartholomew_33 Start: 27939, Stop: 28805, Start Num: 106
Candidate Starts for Bartholomew_33:
(Start: 106 @27939 has 51 MA's), (148, 28020), (154, 28044), (158, 28053), (176, 28101), (224, 28209), (230, 28224), (283, 28335), (347, 28518), (366, 28572), (402, 28701), (421, 28743), (448, 28791),

Gene: Baudelaire_91 Start: 56094, Stop: 56897, Start Num: 142
Candidate Starts for Baudelaire_91:
(Start: 142 @56094 has 2 MA's), (155, 56127), (158, 56136), (169, 56169), (171, 56175), (176, 56187), (185, 56208), (262, 56373), (265, 56376), (296, 56457), (341, 56595), (364, 56655), (367, 56670), (377, 56709), (391, 56757), (437, 56877),

Gene: BaxterFox_47 Start: 36495, Stop: 37400, Start Num: 78
Candidate Starts for BaxterFox_47:
(53, 36387), (Start: 78 @36495 has 1 MA's), (Start: 96 @36528 has 7 MA's), (Start: 103 @36540 has 4 MA's), (156, 36648), (158, 36654), (236, 36825), (262, 36879), (275, 36909), (286, 36927), (320, 36993), (342, 37068), (369, 37149), (415, 37293),

Gene: Beakin_49 Start: 35134, Stop: 36138, Start Num: 57
Candidate Starts for Beakin_49:
(Start: 57 @35134 has 72 MA's), (120, 35302), (Start: 132 @35323 has 1 MA's), (Start: 137 @35335 has 19 MA's), (150, 35368), (156, 35383), (162, 35401), (165, 35410), (177, 35446), (195, 35494), (203, 35512), (206, 35524), (218, 35551), (228, 35575), (233, 35587), (236, 35590), (246, 35611), (255, 35632), (261, 35644), (263, 35647), (301, 35731), (321, 35776), (324, 35782), (340, 35839), (347, 35857), (356, 35878), (366, 35911), (372, 35929), (384, 35971), (393, 35998), (412, 36055), (424, 36085), (445, 36121), (448, 36124),

Gene: Beanstalk_48 Start: 34763, Stop: 35770, Start Num: 57
Candidate Starts for Beanstalk_48:
(1, 34268), (3, 34319), (8, 34442), (9, 34448), (12, 34463), (15, 34517), (24, 34589), (27, 34598), (Start: 57 @34763 has 72 MA's), (Start: 132 @34955 has 1 MA's), (Start: 137 @34967 has 19 MA's), (162, 35033), (165, 35042), (177, 35078), (203, 35144), (206, 35156), (218, 35183), (228, 35207), (236, 35222), (246, 35243), (255, 35264), (261, 35276), (263, 35279), (301, 35363), (321, 35408), (324, 35414), (325, 35420), (333, 35444), (340, 35471), (347, 35489), (356, 35510), (366, 35543), (384, 35603), (393, 35630), (404, 35669), (412, 35687), (421, 35708), (424, 35717), (445, 35753), (451, 35762),

Gene: BearBQ_54 Start: 38297, Stop: 39052, Start Num: 131
Candidate Starts for BearBQ_54:
(41, 38063), (56, 38105), (Start: 57 @38117 has 72 MA's), (65, 38144), (81, 38207), (107, 38255), (Start: 131 @38297 has 11 MA's), (158, 38363), (Start: 159 @38366 has 1 MA's), (180, 38426), (187, 38438), (205, 38480), (219, 38507), (316, 38702), (330, 38753), (378, 38897), (411, 38990),

Gene: Begonia_44 Start: 35305, Stop: 36069, Start Num: 137
Candidate Starts for Begonia_44:
(44, 35065), (60, 35119), (71, 35164), (97, 35230), (Start: 137 @35305 has 19 MA's), (146, 35320), (Start: 159 @35359 has 1 MA's), (179, 35416), (215, 35494), (220, 35506), (229, 35527), (266, 35596), (316, 35692), (341, 35782), (401, 35974),

Gene: Bhagsy_34 Start: 27935, Stop: 28798, Start Num: 106

Candidate Starts for Bhagsy_34:
(Start: 106 @27935 has 51 MA's), (148, 28016), (154, 28040), (158, 28049), (176, 28097), (221, 28193), (224, 28202), (230, 28217), (283, 28328), (347, 28511), (366, 28565), (402, 28694), (421, 28736), (448, 28784),

Gene: Bialota_46 Start: 35982, Stop: 36818, Start Num: 94
Candidate Starts for Bialota_46:
(Start: 94 @35982 has 20 MA's), (Start: 105 @35994 has 18 MA's), (153, 36096), (189, 36183), (276, 36354), (322, 36459), (353, 36555), (397, 36708), (410, 36744), (438, 36804),

Gene: BigNuz_37 Start: 30064, Stop: 30867, Start Num: 114
Candidate Starts for BigNuz_37:
(Start: 114 @30064 has 4 MA's), (Start: 159 @30166 has 1 MA's), (171, 30202), (266, 30394), (307, 30490), (335, 30574), (358, 30640), (360, 30643), (371, 30667), (385, 30721), (396, 30760), (403, 30781), (405, 30784), (437, 30853),

Gene: BigPhil_42 Start: 30882, Stop: 31748, Start Num: 104
Candidate Starts for BigPhil_42:
(Start: 104 @30882 has 64 MA's), (118, 30909), (154, 30981), (158, 30990), (236, 31161), (270, 31236), (288, 31275), (289, 31278), (293, 31284), (299, 31293), (320, 31344), (321, 31347), (364, 31473), (368, 31494), (369, 31497), (376, 31521), (394, 31584), (415, 31641), (448, 31707), (449, 31710),

Gene: Birdsong_56 Start: 36895, Stop: 37674, Start Num: 123
Candidate Starts for Birdsong_56:
(Start: 123 @36895 has 10 MA's), (244, 37150), (353, 37408), (379, 37501), (409, 37597),

Gene: Blarby_58 Start: 35815, Stop: 36681, Start Num: 104
Candidate Starts for Blarby_58:
(Start: 104 @35815 has 64 MA's), (154, 35914), (158, 35923), (236, 36094), (249, 36121), (270, 36169), (288, 36208), (289, 36211), (293, 36217), (299, 36226), (314, 36253), (320, 36277), (368, 36427), (369, 36430), (376, 36454), (394, 36517), (399, 36538), (410, 36565), (439, 36622), (451, 36646),

Gene: Blexus_45 Start: 35131, Stop: 36135, Start Num: 57
Candidate Starts for Blexus_45:
(Start: 57 @35131 has 72 MA's), (Start: 132 @35320 has 1 MA's), (Start: 137 @35332 has 19 MA's), (162, 35398), (165, 35407), (177, 35443), (203, 35509), (206, 35521), (218, 35548), (228, 35572), (236, 35587), (246, 35608), (255, 35629), (261, 35641), (263, 35644), (301, 35728), (321, 35773), (324, 35779), (333, 35809), (340, 35836), (347, 35854), (356, 35875), (366, 35908), (384, 35968), (393, 35995), (404, 36034), (412, 36052), (421, 36073), (424, 36082), (445, 36118), (451, 36127),

Gene: Blino_49 Start: 38491, Stop: 39252, Start Num: 137
Candidate Starts for Blino_49:
(97, 38416), (Start: 137 @38491 has 19 MA's), (146, 38506), (158, 38542), (180, 38605), (187, 38617), (205, 38659), (219, 38686), (266, 38779), (316, 38875), (341, 38965), (401, 39157),

Gene: BlueCrab_45 Start: 34857, Stop: 35861, Start Num: 57
Candidate Starts for BlueCrab_45:
(Start: 57 @34857 has 72 MA's), (Start: 132 @35046 has 1 MA's), (Start: 137 @35058 has 19 MA's), (162, 35124), (165, 35133), (177, 35169), (203, 35235), (206, 35247), (218, 35274), (228, 35298), (236, 35313), (246, 35334), (255, 35355), (261, 35367), (263, 35370), (301, 35454), (321, 35499), (324, 35505), (333, 35535), (340, 35562), (347, 35580), (356, 35601), (366, 35634), (384, 35694),

(393, 35721), (404, 35760), (412, 35778), (421, 35799), (424, 35808), (445, 35844), (451, 35853),

Gene: Blueberry_46 Start: 35195, Stop: 35956, Start Num: 137
Candidate Starts for Blueberry_46:
(Start: 137 @35195 has 19 MA's), (146, 35210), (181, 35312), (195, 35345), (219, 35390), (222, 35399), (229, 35414), (266, 35483), (316, 35579), (341, 35669), (401, 35861),

Gene: Bluvara_42 Start: 33686, Stop: 34564, Start Num: 86
Candidate Starts for Bluvara_42:
(Start: 86 @33686 has 8 MA's), (141, 33782), (209, 33935), (220, 33959), (222, 33965), (284, 34100), (367, 34337), (427, 34523),

Gene: BobaPhett_49 Start: 36795, Stop: 37598, Start Num: 94
Candidate Starts for BobaPhett_49:
(Start: 94 @36795 has 20 MA's), (119, 36834), (139, 36870), (155, 36909), (166, 36939), (182, 36978), (217, 37041), (220, 37044), (232, 37068), (235, 37071), (247, 37095), (256, 37113), (264, 37122), (282, 37143), (339, 37299), (340, 37302), (360, 37350), (362, 37359), (368, 37386), (397, 37488), (409, 37521), (410, 37524), (414, 37533), (416, 37539), (432, 37572), (442, 37587),

Gene: BodEinwohner17_47 Start: 35274, Stop: 36077, Start Num: 137
Candidate Starts for BodEinwohner17_47:
(Start: 137 @35274 has 19 MA's), (162, 35340), (165, 35349), (177, 35385), (203, 35451), (204, 35457), (206, 35463), (218, 35490), (233, 35526), (236, 35529), (246, 35550), (255, 35571), (261, 35583), (263, 35586), (301, 35670), (321, 35715), (324, 35721), (325, 35727), (333, 35751), (340, 35778), (347, 35796), (356, 35817), (366, 35850), (384, 35910), (393, 35937), (404, 35976), (412, 35994), (421, 36015), (424, 36024), (445, 36060), (451, 36069),

Gene: Bogie_36 Start: 29722, Stop: 30588, Start Num: 106
Candidate Starts for Bogie_36:
(Start: 106 @29722 has 51 MA's), (148, 29803), (154, 29827), (158, 29836), (167, 29863), (176, 29884), (224, 29992), (230, 30007), (283, 30118), (347, 30301), (366, 30355), (421, 30526), (448, 30574),

Gene: Boomer_50 Start: 36306, Stop: 37310, Start Num: 57
Candidate Starts for Boomer_50:
(Start: 57 @36306 has 72 MA's), (Start: 132 @36495 has 1 MA's), (Start: 137 @36507 has 19 MA's), (162, 36573), (165, 36582), (177, 36618), (203, 36684), (206, 36696), (218, 36723), (228, 36747), (236, 36762), (246, 36783), (255, 36804), (261, 36816), (263, 36819), (301, 36903), (321, 36948), (324, 36954), (333, 36984), (340, 37011), (347, 37029), (356, 37050), (366, 37083), (384, 37143), (404, 37209), (412, 37227), (421, 37248), (424, 37257), (445, 37293), (451, 37302),

Gene: BotCity_59 Start: 38122, Stop: 38898, Start Num: 123
Candidate Starts for BotCity_59:
(Start: 123 @38122 has 10 MA's), (171, 38224), (220, 38326), (244, 38374), (353, 38632), (379, 38725), (409, 38821),

Gene: BoyNamedSue_48 Start: 36089, Stop: 36913, Start Num: 105
Candidate Starts for BoyNamedSue_48:
(Start: 94 @36077 has 20 MA's), (Start: 105 @36089 has 18 MA's), (153, 36191), (189, 36278), (276, 36449), (322, 36554), (353, 36650), (397, 36803), (410, 36839), (438, 36899),

Gene: Bradissa_43 Start: 35472, Stop: 36344, Start Num: 96
Candidate Starts for Bradissa_43:

(Start: 96 @35472 has 7 MA's), (Start: 103 @35484 has 4 MA's), (154, 35589), (158, 35598), (236, 35769), (262, 35823), (275, 35853), (342, 36012), (369, 36093), (415, 36237),

Gene: Bran_33 Start: 28148, Stop: 29026, Start Num: 85
Candidate Starts for Bran_33:
(Start: 85 @28148 has 3 MA's), (140, 28250), (141, 28253), (146, 28259), (161, 28295), (222, 28433), (338, 28712), (398, 28916), (425, 28982), (427, 28985), (437, 29006),

Gene: BritBrat_51 Start: 37037, Stop: 37918, Start Num: 86
Candidate Starts for BritBrat_51:
(40, 36878), (Start: 86 @37037 has 8 MA's), (141, 37139), (146, 37145), (275, 37433), (367, 37691), (395, 37796), (398, 37808), (414, 37847), (425, 37874), (427, 37877), (437, 37898),

Gene: Brocalys_43 Start: 31207, Stop: 31986, Start Num: 121
Candidate Starts for Brocalys_43:
(Start: 108 @31177 has 2 MA's), (Start: 121 @31207 has 15 MA's), (Start: 142 @31231 has 2 MA's), (144, 31234), (157, 31270), (158, 31273), (175, 31318), (222, 31426), (229, 31441), (266, 31510), (288, 31558), (336, 31675), (353, 31726), (380, 31822), (414, 31927), (416, 31933), (436, 31975), (442, 31981),

Gene: BronnyJr_34 Start: 28436, Stop: 29302, Start Num: 106
Candidate Starts for BronnyJr_34:
(Start: 106 @28436 has 51 MA's), (148, 28517), (154, 28541), (158, 28550), (176, 28598), (224, 28706), (230, 28721), (283, 28832), (347, 29015), (366, 29069), (402, 29198), (421, 29240), (448, 29288),

Gene: Brookers_43 Start: 33833, Stop: 34699, Start Num: 104
Candidate Starts for Brookers_43:
(Start: 104 @33833 has 64 MA's), (118, 33860), (154, 33932), (158, 33941), (236, 34112), (270, 34187), (288, 34226), (289, 34229), (293, 34235), (299, 34244), (320, 34295), (321, 34298), (364, 34424), (368, 34445), (369, 34448), (376, 34472), (394, 34535), (415, 34592), (448, 34658), (449, 34661),

Gene: Brujita_36 Start: 29775, Stop: 30644, Start Num: 106
Candidate Starts for Brujita_36:
(Start: 106 @29775 has 51 MA's), (154, 29883), (158, 29892), (176, 29940), (224, 30048), (230, 30063), (283, 30174), (347, 30357), (366, 30411), (402, 30540), (421, 30582), (448, 30630),

Gene: Brusacoram_34 Start: 27932, Stop: 28798, Start Num: 106
Candidate Starts for Brusacoram_34:
(Start: 106 @27932 has 51 MA's), (148, 28013), (154, 28037), (158, 28046), (167, 28073), (176, 28094), (224, 28202), (230, 28217), (283, 28328), (347, 28511), (366, 28565), (402, 28694), (421, 28736), (448, 28784),

Gene: Brushbloom_50 Start: 35774, Stop: 36778, Start Num: 57
Candidate Starts for Brushbloom_50:
(Start: 57 @35774 has 72 MA's), (120, 35942), (Start: 132 @35963 has 1 MA's), (Start: 137 @35975 has 19 MA's), (150, 36008), (156, 36023), (162, 36041), (165, 36050), (177, 36086), (195, 36134), (203, 36152), (206, 36164), (218, 36191), (228, 36215), (233, 36227), (236, 36230), (246, 36251), (255, 36272), (261, 36284), (263, 36287), (293, 36359), (301, 36371), (324, 36422), (325, 36428), (340, 36479), (347, 36497), (356, 36518), (366, 36551), (372, 36569), (384, 36611), (393, 36638), (412, 36695), (424, 36725), (445, 36761), (448, 36764),

Gene: Bubbles123_44 Start: 35595, Stop: 36461, Start Num: 104
Candidate Starts for Bubbles123_44:
(Start: 104 @35595 has 64 MA's), (154, 35694), (158, 35703), (221, 35841), (236, 35874), (249, 35901), (270, 35949), (288, 35988), (289, 35991), (293, 35997), (299, 36006), (314, 36033), (320, 36057), (368, 36207), (369, 36210), (376, 36234), (394, 36297), (399, 36318), (410, 36345), (439, 36402), (451, 36426),

Gene: Bubbykins_83 Start: 52362, Stop: 53198, Start Num: 128
Candidate Starts for Bubbykins_83:
(Start: 128 @52362 has 1 MA's), (Start: 159 @52437 has 1 MA's), (170, 52470), (178, 52491), (240, 52632), (245, 52644), (257, 52665), (262, 52677), (294, 52749), (299, 52758), (330, 52845), (334, 52860), (337, 52869), (358, 52923), (386, 53034), (394, 53058), (433, 53154), (444, 53178),

Gene: Budski_63 Start: 39082, Stop: 39861, Start Num: 123
Candidate Starts for Budski_63:
(Start: 123 @39082 has 10 MA's), (244, 39337), (298, 39451), (312, 39472), (353, 39595), (379, 39688), (409, 39784),

Gene: Bunnies_34 Start: 27953, Stop: 28819, Start Num: 106
Candidate Starts for Bunnies_34:
(Start: 106 @27953 has 51 MA's), (148, 28034), (154, 28058), (158, 28067), (167, 28094), (176, 28115), (224, 28223), (230, 28238), (283, 28349), (347, 28532), (366, 28586), (402, 28715), (421, 28757), (448, 28805),

Gene: Bunnybear_41 Start: 33762, Stop: 34586, Start Num: 105
Candidate Starts for Bunnybear_41:
(16, 33405), (20, 33438), (46, 33606), (Start: 105 @33762 has 18 MA's), (153, 33864), (189, 33951), (322, 34227), (353, 34323), (409, 34509), (410, 34512), (438, 34572),

Gene: BuzzLyseyear_52 Start: 36683, Stop: 37687, Start Num: 57
Candidate Starts for BuzzLyseyear_52:
(Start: 57 @36683 has 72 MA's), (Start: 132 @36872 has 1 MA's), (Start: 137 @36884 has 19 MA's), (162, 36950), (165, 36959), (177, 36995), (203, 37061), (206, 37073), (218, 37100), (228, 37124), (236, 37139), (246, 37160), (255, 37181), (261, 37193), (263, 37196), (301, 37280), (321, 37325), (324, 37331), (333, 37361), (340, 37388), (347, 37406), (356, 37427), (366, 37460), (384, 37520), (393, 37547), (404, 37586), (412, 37604), (421, 37625), (424, 37634), (445, 37670), (451, 37679),

Gene: ByChance_37 Start: 29879, Stop: 30682, Start Num: 94
Candidate Starts for ByChance_37:
(Start: 94 @29879 has 20 MA's), (119, 29918), (139, 29954), (155, 29993), (166, 30023), (182, 30062), (217, 30125), (220, 30128), (232, 30152), (235, 30155), (247, 30179), (256, 30197), (264, 30206), (282, 30227), (339, 30383), (340, 30386), (360, 30434), (362, 30443), (368, 30470), (397, 30572), (409, 30605), (410, 30608), (414, 30617), (416, 30623), (432, 30656), (442, 30671),

Gene: Byougenkin_44 Start: 34980, Stop: 35858, Start Num: 104
Candidate Starts for Byougenkin_44:
(34, 34740), (Start: 104 @34980 has 64 MA's), (154, 35079), (158, 35088), (236, 35259), (249, 35286), (262, 35313), (274, 35346), (287, 35370), (299, 35394), (329, 35487), (368, 35604), (369, 35607), (376, 35631), (394, 35694), (399, 35715), (410, 35742), (451, 35823),

Gene: CactusJack_34 Start: 28196, Stop: 29059, Start Num: 106
Candidate Starts for CactusJack_34:

(Start: 106 @28196 has 51 MA's), (148, 28277), (154, 28301), (158, 28310), (176, 28358), (191, 28382), (224, 28463), (230, 28478), (283, 28589), (347, 28772), (366, 28826), (402, 28955), (421, 28997), (448, 29045),

Gene: Camster_34 Start: 27969, Stop: 28835, Start Num: 106
Candidate Starts for Camster_34:
(Start: 106 @27969 has 51 MA's), (148, 28050), (154, 28074), (158, 28083), (167, 28110), (176, 28131), (224, 28239), (230, 28254), (283, 28365), (347, 28548), (366, 28602), (421, 28773), (448, 28821),

Gene: CarolAnn_48 Start: 38490, Stop: 39251, Start Num: 137
Candidate Starts for CarolAnn_48:
(97, 38415), (Start: 137 @38490 has 19 MA's), (146, 38505), (158, 38541), (180, 38604), (187, 38616), (205, 38658), (219, 38685), (266, 38778), (316, 38874), (341, 38964), (401, 39156),

Gene: Cashline_45 Start: 35939, Stop: 36781, Start Num: 72
Candidate Starts for Cashline_45:
(35, 35786), (45, 35837), (Start: 72 @35939 has 2 MA's), (75, 35951), (Start: 105 @35996 has 18 MA's), (153, 36098), (220, 36236), (251, 36299), (308, 36383), (315, 36401), (340, 36488), (346, 36503), (409, 36704), (410, 36707),

Gene: Caterpie_51 Start: 43734, Stop: 44543, Start Num: 108
Candidate Starts for Caterpie_51:
(16, 43353), (83, 43689), (Start: 108 @43734 has 2 MA's), (Start: 121 @43764 has 15 MA's), (Start: 142 @43788 has 2 MA's), (144, 43791), (157, 43827), (158, 43830), (175, 43875), (222, 43983), (229, 43998), (266, 44067), (288, 44115), (336, 44232), (353, 44283), (380, 44379), (416, 44490), (436, 44532), (442, 44538),

Gene: Cerasum_42 Start: 30900, Stop: 31766, Start Num: 104
Candidate Starts for Cerasum_42:
(Start: 104 @30900 has 64 MA's), (118, 30927), (154, 30999), (158, 31008), (236, 31179), (270, 31254), (288, 31293), (289, 31296), (293, 31302), (299, 31311), (320, 31362), (321, 31365), (364, 31491), (368, 31512), (369, 31515), (376, 31539), (394, 31602), (415, 31659), (448, 31725), (449, 31728),

Gene: Che8_49 Start: 36144, Stop: 37010, Start Num: 104
Candidate Starts for Che8_49:
(Start: 104 @36144 has 64 MA's), (154, 36243), (158, 36252), (236, 36423), (288, 36537), (289, 36540), (293, 36546), (299, 36555), (320, 36606), (321, 36609), (368, 36756), (369, 36759), (376, 36783), (394, 36846), (399, 36867), (410, 36894), (451, 36975),

Gene: Che9d_54 Start: 34668, Stop: 35669, Start Num: 57
Candidate Starts for Che9d_54:
(Start: 57 @34668 has 72 MA's), (120, 34836), (Start: 132 @34857 has 1 MA's), (Start: 137 @34869 has 19 MA's), (162, 34935), (165, 34944), (177, 34980), (203, 35046), (218, 35085), (220, 35088), (233, 35121), (236, 35124), (246, 35145), (255, 35166), (261, 35178), (263, 35181), (301, 35262), (321, 35307), (324, 35313), (340, 35370), (347, 35388), (349, 35391), (356, 35409), (363, 35430), (366, 35442), (372, 35460), (384, 35502), (393, 35529), (404, 35568), (412, 35586), (421, 35607), (445, 35652), (448, 35655),

Gene: CheeseSpider_48 Start: 33609, Stop: 34427, Start Num: 105
Candidate Starts for CheeseSpider_48:

(Start: 105 @33609 has 18 MA's), (153, 33705), (157, 33714), (267, 33939), (298, 34014), (336, 34119), (360, 34185), (362, 34194), (409, 34356), (410, 34359), (438, 34419),

Gene: CheeseTouch_62 Start: 34639, Stop: 35517, Start Num: 86
Candidate Starts for CheeseTouch_62:
(Start: 86 @34639 has 8 MA's), (141, 34738), (149, 34747), (166, 34795), (222, 34918), (237, 34945), (259, 34993), (347, 35230), (414, 35446), (427, 35476), (437, 35497),

Gene: Cheesepuff_53 Start: 37297, Stop: 38301, Start Num: 57
Candidate Starts for Cheesepuff_53:
(Start: 57 @37297 has 72 MA's), (120, 37465), (Start: 132 @37486 has 1 MA's), (Start: 137 @37498 has 19 MA's), (162, 37564), (165, 37573), (177, 37609), (203, 37675), (218, 37714), (220, 37717), (228, 37738), (236, 37753), (246, 37774), (255, 37795), (261, 37807), (263, 37810), (301, 37894), (324, 37945), (325, 37951), (340, 38002), (347, 38020), (356, 38041), (366, 38074), (372, 38092), (384, 38134), (393, 38161), (412, 38218), (424, 38248), (445, 38284), (448, 38287),

Gene: ChickenDinner_45 Start: 34616, Stop: 35476, Start Num: 84
Candidate Starts for ChickenDinner_45:
(70, 34577), (Start: 84 @34616 has 10 MA's), (126, 34700), (Start: 133 @34712 has 5 MA's), (135, 34718), (147, 34742), (160, 34781), (165, 34796), (238, 34946), (243, 34958), (252, 34979), (332, 35162), (375, 35291), (393, 35351), (409, 35399), (426, 35438),

Gene: Chubbello_34 Start: 27935, Stop: 28801, Start Num: 106
Candidate Starts for Chubbello_34:
(Start: 106 @27935 has 51 MA's), (148, 28016), (154, 28040), (158, 28049), (176, 28097), (224, 28205), (230, 28220), (283, 28331), (347, 28514), (366, 28568), (402, 28697), (421, 28739), (448, 28787),

Gene: Chuckly_47 Start: 35101, Stop: 36108, Start Num: 57
Candidate Starts for Chuckly_47:
(Start: 57 @35101 has 72 MA's), (Start: 132 @35293 has 1 MA's), (Start: 137 @35305 has 19 MA's), (162, 35371), (165, 35380), (177, 35416), (203, 35482), (206, 35494), (218, 35521), (228, 35545), (236, 35560), (246, 35581), (255, 35602), (261, 35614), (263, 35617), (301, 35701), (321, 35746), (324, 35752), (325, 35758), (333, 35782), (340, 35809), (347, 35827), (356, 35848), (366, 35881), (384, 35941), (393, 35968), (404, 36007), (412, 36025), (421, 36046), (424, 36055), (445, 36091), (451, 36100),

Gene: CicholasNage_59 Start: 42396, Stop: 43214, Start Num: 76
Candidate Starts for CicholasNage_59:
(Start: 76 @42396 has 9 MA's), (90, 42423), (112, 42450), (118, 42462), (154, 42522), (181, 42597), (188, 42609), (231, 42699), (236, 42705), (289, 42810), (315, 42840), (354, 42945), (392, 43068), (418, 43143), (425, 43158),

Gene: Clank_49 Start: 35152, Stop: 36018, Start Num: 104
Candidate Starts for Clank_49:
(Start: 104 @35152 has 64 MA's), (154, 35251), (158, 35260), (236, 35431), (270, 35506), (288, 35545), (289, 35548), (293, 35554), (299, 35563), (320, 35614), (321, 35617), (364, 35743), (368, 35764), (369, 35767), (376, 35791), (394, 35854), (415, 35911), (448, 35977), (449, 35980),

Gene: Clifton_42 Start: 31558, Stop: 32337, Start Num: 121
Candidate Starts for Clifton_42:
(Start: 108 @31528 has 2 MA's), (Start: 121 @31558 has 15 MA's), (Start: 142 @31582 has 2 MA's), (144, 31585), (157, 31621), (158, 31624), (175, 31669), (222, 31777), (229, 31792), (266, 31861),

(288, 31909), (336, 32026), (353, 32077), (380, 32173), (414, 32278), (416, 32284), (436, 32326), (442, 32332),

Gene: Clown_59 Start: 43467, Stop: 44249, Start Num: 136
Candidate Starts for Clown_59:
(40, 43209), (47, 43230), (Start: 73 @43341 has 1 MA's), (109, 43410), (Start: 136 @43467 has 1 MA's), (158, 43518), (175, 43566), (192, 43611), (216, 43656), (221, 43668), (230, 43689), (238, 43701), (293, 43833), (295, 43836), (327, 43908), (358, 44004), (373, 44055), (377, 44076), (384, 44103), (388, 44118), (408, 44178), (422, 44214),

Gene: Coco12_44 Start: 34957, Stop: 35823, Start Num: 104
Candidate Starts for Coco12_44:
(Start: 104 @34957 has 64 MA's), (118, 34984), (154, 35056), (158, 35065), (236, 35236), (270, 35311), (288, 35350), (289, 35353), (293, 35359), (299, 35368), (320, 35419), (321, 35422), (364, 35548), (368, 35569), (369, 35572), (376, 35596), (394, 35659), (415, 35716), (448, 35782), (449, 35785),

Gene: Confidence_45 Start: 33363, Stop: 34235, Start Num: 96
Candidate Starts for Confidence_45:
(18, 33027), (49, 33213), (51, 33219), (Start: 96 @33363 has 7 MA's), (Start: 103 @33375 has 4 MA's), (154, 33480), (158, 33489), (236, 33660), (262, 33714), (321, 33831), (342, 33903), (369, 33984), (415, 34128),

Gene: Cornie_39 Start: 33017, Stop: 33901, Start Num: 104
Candidate Starts for Cornie_39:
(Start: 104 @33017 has 64 MA's), (154, 33116), (158, 33125), (231, 33308), (236, 33314), (270, 33389), (288, 33428), (289, 33431), (293, 33437), (299, 33446), (314, 33473), (320, 33497), (321, 33500), (368, 33647), (369, 33650), (376, 33674), (394, 33737), (399, 33758), (451, 33866),

Gene: Cornucopia_51 Start: 36403, Stop: 37407, Start Num: 57
Candidate Starts for Cornucopia_51:
(Start: 57 @36403 has 72 MA's), (120, 36571), (Start: 132 @36592 has 1 MA's), (Start: 137 @36604 has 19 MA's), (150, 36637), (156, 36652), (162, 36670), (165, 36679), (177, 36715), (195, 36763), (203, 36781), (206, 36793), (218, 36820), (228, 36844), (233, 36856), (236, 36859), (246, 36880), (255, 36901), (261, 36913), (263, 36916), (301, 37000), (324, 37051), (325, 37057), (340, 37108), (347, 37126), (356, 37147), (366, 37180), (372, 37198), (384, 37240), (393, 37267), (412, 37324), (424, 37354), (445, 37390), (448, 37393),

Gene: Crater_58 Start: 37563, Stop: 38339, Start Num: 123
Candidate Starts for Crater_58:
(Start: 123 @37563 has 10 MA's), (206, 37737), (220, 37767), (244, 37815), (353, 38073), (379, 38166),

Gene: DRBy19_49 Start: 35582, Stop: 36385, Start Num: 94
Candidate Starts for DRBy19_49:
(Start: 94 @35582 has 20 MA's), (119, 35621), (139, 35657), (155, 35696), (166, 35726), (182, 35765), (217, 35828), (220, 35831), (232, 35855), (235, 35858), (247, 35882), (256, 35900), (264, 35909), (282, 35930), (339, 36086), (340, 36089), (360, 36137), (362, 36146), (368, 36173), (397, 36275), (409, 36308), (410, 36311), (414, 36320), (416, 36326), (432, 36359), (442, 36374),

Gene: DaWorst_49 Start: 35931, Stop: 36935, Start Num: 57
Candidate Starts for DaWorst_49:

(Start: 57 @35931 has 72 MA's), (120, 36099), (Start: 132 @36120 has 1 MA's), (Start: 137 @36132 has 19 MA's), (162, 36198), (165, 36207), (177, 36243), (203, 36309), (218, 36348), (220, 36351), (228, 36372), (236, 36387), (246, 36408), (255, 36429), (261, 36441), (263, 36444), (301, 36528), (324, 36579), (325, 36585), (340, 36636), (347, 36654), (356, 36675), (366, 36708), (372, 36726), (384, 36768), (393, 36795), (412, 36852), (424, 36882), (445, 36918), (448, 36921),

Gene: Dante_47 Start: 34836, Stop: 35840, Start Num: 57
Candidate Starts for Dante_47:
(Start: 57 @34836 has 72 MA's), (120, 35004), (Start: 132 @35025 has 1 MA's), (Start: 137 @35037 has 19 MA's), (150, 35070), (156, 35085), (162, 35103), (165, 35112), (177, 35148), (195, 35196), (203, 35214), (206, 35226), (218, 35253), (228, 35277), (233, 35289), (236, 35292), (246, 35313), (255, 35334), (261, 35346), (263, 35349), (301, 35433), (321, 35478), (324, 35484), (325, 35490), (340, 35541), (347, 35559), (356, 35580), (366, 35613), (372, 35631), (384, 35673), (393, 35700), (412, 35757), (424, 35787), (445, 35823), (448, 35826),

Gene: Demsculpinboyz_56 Start: 34780, Stop: 35781, Start Num: 57
Candidate Starts for Demsculpinboyz_56:
(Start: 57 @34780 has 72 MA's), (120, 34948), (Start: 132 @34969 has 1 MA's), (Start: 137 @34981 has 19 MA's), (150, 35014), (156, 35029), (162, 35047), (165, 35056), (177, 35092), (195, 35140), (203, 35158), (206, 35170), (218, 35197), (228, 35221), (233, 35233), (236, 35236), (246, 35257), (255, 35278), (261, 35290), (263, 35293), (301, 35374), (321, 35419), (324, 35425), (340, 35482), (347, 35500), (349, 35503), (356, 35521), (366, 35554), (372, 35572), (384, 35614), (393, 35641), (404, 35680), (412, 35698), (421, 35719), (424, 35728), (445, 35764), (448, 35767),

Gene: DillTech15_46 Start: 34346, Stop: 35350, Start Num: 57
Candidate Starts for DillTech15_46:
(Start: 57 @34346 has 72 MA's), (120, 34514), (Start: 132 @34535 has 1 MA's), (Start: 137 @34547 has 19 MA's), (162, 34613), (165, 34622), (177, 34658), (203, 34724), (218, 34763), (220, 34766), (228, 34787), (236, 34802), (246, 34823), (255, 34844), (261, 34856), (263, 34859), (301, 34943), (324, 34994), (325, 35000), (340, 35051), (347, 35069), (356, 35090), (366, 35123), (372, 35141), (384, 35183), (393, 35210), (412, 35267), (424, 35297), (445, 35333), (448, 35336),

Gene: Dillpickles_53 Start: 35394, Stop: 36230, Start Num: 94
Candidate Starts for Dillpickles_53:
(Start: 94 @35394 has 20 MA's), (Start: 105 @35406 has 18 MA's), (153, 35508), (189, 35595), (276, 35766), (322, 35871), (353, 35967), (397, 36120), (410, 36156), (438, 36216),

Gene: Dina_30 Start: 25374, Stop: 26258, Start Num: 85
Candidate Starts for Dina_30:
(Start: 85 @25374 has 3 MA's), (141, 25479), (149, 25488), (199, 25617), (207, 25629), (222, 25665), (338, 25944), (398, 26148), (425, 26214), (427, 26217), (437, 26238),

Gene: DirtMcgirt_46 Start: 34376, Stop: 35242, Start Num: 104
Candidate Starts for DirtMcgirt_46:
(Start: 104 @34376 has 64 MA's), (154, 34475), (158, 34484), (236, 34655), (249, 34682), (288, 34769), (289, 34772), (293, 34778), (299, 34787), (320, 34838), (321, 34841), (329, 34871), (368, 34988), (376, 35015), (394, 35078), (399, 35099),

Gene: DocMcStuffins_45 Start: 34616, Stop: 35476, Start Num: 84
Candidate Starts for DocMcStuffins_45:
(70, 34577), (Start: 84 @34616 has 10 MA's), (126, 34700), (Start: 133 @34712 has 5 MA's), (135, 34718), (147, 34742), (160, 34781), (165, 34796), (238, 34946), (243, 34958), (252, 34979), (332, 35162), (375, 35291), (393, 35351), (409, 35399), (426, 35438),

Gene: Dolores_48 Start: 34386, Stop: 35135, Start Num: 131
Candidate Starts for Dolores_48:
(2, 33747), (4, 33801), (5, 33834), (7, 33873), (11, 33894), (13, 33927), (14, 33939), (30, 34062), (32, 34083), (64, 34230), (Start: 131 @34386 has 11 MA's), (146, 34416), (155, 34443), (158, 34452), (205, 34569), (219, 34596), (229, 34620), (238, 34635), (253, 34665), (302, 34755), (304, 34758), (378, 34980),

Gene: Donkeykong_46 Start: 35576, Stop: 36355, Start Num: 121
Candidate Starts for Donkeykong_46:
(Start: 108 @35546 has 2 MA's), (Start: 121 @35576 has 15 MA's), (Start: 142 @35600 has 2 MA's), (144, 35603), (157, 35639), (158, 35642), (175, 35687), (222, 35795), (229, 35810), (266, 35879), (288, 35927), (336, 36044), (353, 36095), (380, 36191), (414, 36296), (416, 36302), (436, 36344), (442, 36350),

Gene: Donovan_34 Start: 27961, Stop: 28824, Start Num: 106
Candidate Starts for Donovan_34:
(Start: 106 @27961 has 51 MA's), (148, 28042), (154, 28066), (158, 28075), (167, 28102), (176, 28123), (221, 28219), (224, 28228), (230, 28243), (283, 28354), (347, 28537), (366, 28591), (402, 28720), (421, 28762), (448, 28810),

Gene: Doomphist_47 Start: 36071, Stop: 37075, Start Num: 57
Candidate Starts for Doomphist_47:
(Start: 57 @36071 has 72 MA's), (Start: 132 @36260 has 1 MA's), (Start: 137 @36272 has 19 MA's), (162, 36338), (165, 36347), (177, 36383), (203, 36449), (206, 36461), (218, 36488), (228, 36512), (236, 36527), (246, 36548), (255, 36569), (261, 36581), (263, 36584), (301, 36668), (321, 36713), (324, 36719), (333, 36749), (340, 36776), (347, 36794), (356, 36815), (366, 36848), (384, 36908), (393, 36935), (404, 36974), (412, 36992), (421, 37013), (424, 37022), (445, 37058), (451, 37067),

Gene: Doomslug_55 Start: 35048, Stop: 36052, Start Num: 57
Candidate Starts for Doomslug_55:
(Start: 57 @35048 has 72 MA's), (120, 35216), (Start: 132 @35237 has 1 MA's), (Start: 137 @35249 has 19 MA's), (150, 35282), (156, 35297), (162, 35315), (165, 35324), (177, 35360), (195, 35408), (203, 35426), (206, 35438), (218, 35465), (228, 35489), (233, 35501), (236, 35504), (246, 35525), (255, 35546), (261, 35558), (263, 35561), (301, 35645), (321, 35690), (324, 35696), (333, 35726), (340, 35753), (347, 35771), (356, 35792), (366, 35825), (372, 35843), (384, 35885), (412, 35969), (421, 35990), (445, 36035), (451, 36044),

Gene: Dori_51 Start: 44920, Stop: 45693, Start Num: 121
Candidate Starts for Dori_51:
(Start: 121 @44920 has 15 MA's), (Start: 142 @44941 has 2 MA's), (157, 44980), (158, 44983), (219, 45124), (222, 45133), (229, 45148), (266, 45217), (288, 45265), (336, 45382), (353, 45433), (380, 45529), (414, 45634), (416, 45640), (436, 45682), (442, 45688),

Gene: Dorothy_44 Start: 34870, Stop: 35874, Start Num: 57
Candidate Starts for Dorothy_44:
(Start: 57 @34870 has 72 MA's), (Start: 132 @35059 has 1 MA's), (Start: 137 @35071 has 19 MA's), (162, 35137), (165, 35146), (177, 35182), (203, 35248), (206, 35260), (218, 35287), (228, 35311), (236, 35326), (246, 35347), (255, 35368), (261, 35380), (263, 35383), (301, 35467), (321, 35512), (324, 35518), (333, 35548), (340, 35575), (347, 35593), (356, 35614), (366, 35647), (384, 35707), (393, 35734), (404, 35773), (412, 35791), (421, 35812), (424, 35821), (445, 35857), (451, 35866),

Gene: DosHalletts_47 Start: 34853, Stop: 35650, Start Num: 121

Candidate Starts for DosHalletts_47:
(Start: 121 @34853 has 15 MA's), (144, 34895), (157, 34931), (158, 34934), (178, 34988), (222, 35090), (229, 35105), (266, 35174), (288, 35222), (336, 35339), (353, 35390), (380, 35486), (414, 35591), (416, 35597), (436, 35639), (442, 35645),

Gene: DotProduct_44 Start: 34531, Stop: 35535, Start Num: 57
Candidate Starts for DotProduct_44:
(Start: 57 @34531 has 72 MA's), (Start: 132 @34720 has 1 MA's), (Start: 137 @34732 has 19 MA's), (162, 34798), (165, 34807), (177, 34843), (203, 34909), (206, 34921), (218, 34948), (228, 34972), (236, 34987), (246, 35008), (255, 35029), (261, 35041), (263, 35044), (301, 35128), (321, 35173), (324, 35179), (333, 35209), (340, 35236), (347, 35254), (356, 35275), (366, 35308), (372, 35326), (384, 35368), (393, 35395), (404, 35434), (412, 35452), (421, 35473), (424, 35482), (445, 35518), (451, 35527),

Gene: Doucette_35 Start: 25113, Stop: 25916, Start Num: 133
Candidate Starts for Doucette_35:
(Start: 133 @25113 has 5 MA's), (187, 25236), (189, 25239), (208, 25278), (219, 25305), (229, 25329), (248, 25365), (260, 25392), (272, 25425), (285, 25452), (297, 25482), (308, 25503), (322, 25545), (336, 25587), (346, 25620), (353, 25638), (363, 25665), (410, 25824), (431, 25872), (446, 25905),

Gene: Doug_47 Start: 35453, Stop: 36319, Start Num: 104
Candidate Starts for Doug_47:
(Start: 104 @35453 has 64 MA's), (154, 35552), (158, 35561), (236, 35732), (249, 35759), (270, 35807), (288, 35846), (289, 35849), (293, 35855), (299, 35864), (314, 35891), (320, 35915), (368, 36065), (369, 36068), (376, 36092), (394, 36155), (415, 36212), (448, 36278), (449, 36281),

Gene: Drago_46 Start: 34379, Stop: 35245, Start Num: 104
Candidate Starts for Drago_46:
(Start: 104 @34379 has 64 MA's), (154, 34478), (158, 34487), (236, 34658), (249, 34685), (288, 34772), (289, 34775), (293, 34781), (299, 34790), (320, 34841), (321, 34844), (329, 34874), (368, 34991), (376, 35018), (394, 35081), (399, 35102),

Gene: DumpsterDude_48 Start: 38831, Stop: 39640, Start Num: 96
Candidate Starts for DumpsterDude_48:
(Start: 96 @38831 has 7 MA's), (113, 38861), (154, 38939), (157, 38945), (162, 38960), (202, 39056), (318, 39293), (352, 39395), (387, 39509), (421, 39596),

Gene: Dynamo_34 Start: 28347, Stop: 29213, Start Num: 106
Candidate Starts for Dynamo_34:
(Start: 106 @28347 has 51 MA's), (148, 28428), (154, 28452), (158, 28461), (176, 28509), (224, 28617), (230, 28632), (283, 28743), (347, 28926), (366, 28980), (402, 29109), (421, 29151), (448, 29199),

Gene: E1_33 Start: 24569, Stop: 25372, Start Num: 138
Candidate Starts for E1_33:
(Start: 138 @24569 has 3 MA's), (187, 24692), (189, 24695), (208, 24734), (219, 24761), (229, 24785), (248, 24821), (260, 24848), (272, 24881), (285, 24908), (292, 24929), (297, 24938), (307, 24956), (308, 24959), (322, 25001), (332, 25031), (336, 25043), (346, 25076), (363, 25121), (386, 25211), (409, 25277), (410, 25280), (431, 25328), (446, 25361),

Gene: E6_36 Start: 26500, Stop: 27273, Start Num: 138
Candidate Starts for E6_36:

(Start: 138 @26500 has 3 MA's), (156, 26542), (171, 26584), (175, 26593), (215, 26680), (219, 26689), (245, 26728), (266, 26761), (272, 26782), (285, 26809), (297, 26839), (308, 26860), (322, 26902), (332, 26932), (336, 26944), (346, 26977), (353, 26995), (363, 27022), (410, 27181), (431, 27229), (446, 27262),

Gene: Easley_43 Start: 32655, Stop: 33410, Start Num: 131
Candidate Starts for Easley_43:
(Start: 131 @32655 has 11 MA's), (146, 32685), (155, 32712), (158, 32721), (195, 32820), (219, 32865), (222, 32874), (229, 32889), (234, 32898), (316, 33060), (349, 33171), (350, 33174), (378, 33255),

Gene: EdnaMode_42 Start: 31171, Stop: 32007, Start Num: 94
Candidate Starts for EdnaMode_42:
(Start: 94 @31171 has 20 MA's), (Start: 105 @31183 has 18 MA's), (153, 31285), (189, 31372), (276, 31543), (322, 31648), (353, 31744), (397, 31897), (410, 31933), (438, 31993),

Gene: Eish_48 Start: 35416, Stop: 36417, Start Num: 57
Candidate Starts for Eish_48:
(Start: 57 @35416 has 72 MA's), (120, 35584), (Start: 132 @35605 has 1 MA's), (Start: 137 @35617 has 19 MA's), (162, 35683), (165, 35692), (177, 35728), (203, 35794), (218, 35833), (220, 35836), (233, 35869), (236, 35872), (246, 35893), (255, 35914), (261, 35926), (263, 35929), (301, 36010), (321, 36055), (324, 36061), (333, 36091), (340, 36118), (347, 36136), (349, 36139), (356, 36157), (366, 36190), (372, 36208), (384, 36250), (404, 36316), (421, 36355), (445, 36400),

Gene: EleanorGeorge_45 Start: 34568, Stop: 35434, Start Num: 104
Candidate Starts for EleanorGeorge_45:
(Start: 104 @34568 has 64 MA's), (154, 34667), (158, 34676), (236, 34847), (249, 34874), (288, 34961), (289, 34964), (293, 34970), (299, 34979), (314, 35006), (320, 35030), (321, 35033), (368, 35180), (369, 35183), (376, 35207), (394, 35270), (399, 35291), (439, 35375), (451, 35399),

Gene: EmiMonkey_44 Start: 36187, Stop: 37053, Start Num: 104
Candidate Starts for EmiMonkey_44:
(Start: 104 @36187 has 64 MA's), (154, 36286), (158, 36295), (236, 36466), (249, 36493), (288, 36580), (289, 36583), (293, 36589), (299, 36598), (320, 36649), (321, 36652), (368, 36799), (376, 36826), (394, 36889), (399, 36910),

Gene: Emmaloid_48 Start: 36261, Stop: 37265, Start Num: 57
Candidate Starts for Emmaloid_48:
(Start: 57 @36261 has 72 MA's), (Start: 132 @36450 has 1 MA's), (Start: 137 @36462 has 19 MA's), (162, 36528), (165, 36537), (177, 36573), (203, 36639), (206, 36651), (218, 36678), (228, 36702), (236, 36717), (246, 36738), (255, 36759), (261, 36771), (263, 36774), (301, 36858), (321, 36903), (324, 36909), (333, 36939), (340, 36966), (347, 36984), (356, 37005), (366, 37038), (372, 37056), (384, 37098), (393, 37125), (404, 37164), (412, 37182), (421, 37203), (424, 37212), (445, 37248), (451, 37257),

Gene: EnalisNailo_42 Start: 35018, Stop: 35878, Start Num: 103
Candidate Starts for EnalisNailo_42:
(Start: 96 @35006 has 7 MA's), (Start: 103 @35018 has 4 MA's), (154, 35123), (158, 35132), (236, 35303), (262, 35357), (275, 35387), (342, 35546), (369, 35627), (415, 35771),

Gene: Enceladus_58 Start: 42233, Stop: 43060, Start Num: 76
Candidate Starts for Enceladus_58:

(Start: 76 @42233 has 9 MA's), (90, 42260), (112, 42287), (118, 42299), (134, 42326), (154, 42371), (169, 42413), (175, 42428), (188, 42458), (194, 42473), (236, 42551), (289, 42656), (315, 42686), (354, 42791), (392, 42914), (418, 42989), (425, 43004),

Gene: Enzomatic_54 Start: 35595, Stop: 36461, Start Num: 104
Candidate Starts for Enzomatic_54:
(Start: 104 @35595 has 64 MA's), (154, 35694), (158, 35703), (221, 35841), (236, 35874), (249, 35901), (270, 35949), (288, 35988), (289, 35991), (293, 35997), (299, 36006), (314, 36033), (320, 36057), (321, 36060), (368, 36207), (369, 36210), (376, 36234), (394, 36297), (399, 36318), (410, 36345), (439, 36402), (451, 36426),

Gene: Eradicator_39 Start: 33017, Stop: 33883, Start Num: 104
Candidate Starts for Eradicator_39:
(6, 32519), (10, 32570), (21, 32693), (23, 32699), (26, 32714), (33, 32768), (43, 32840), (48, 32849), (Start: 104 @33017 has 64 MA's), (154, 33116), (158, 33125), (236, 33296), (249, 33323), (270, 33371), (288, 33410), (289, 33413), (293, 33419), (299, 33428), (314, 33455), (320, 33479), (368, 33629), (369, 33632), (376, 33656), (394, 33719), (415, 33776), (448, 33842), (449, 33845),

Gene: Estave1_48 Start: 34820, Stop: 35824, Start Num: 57
Candidate Starts for Estave1_48:
(Start: 57 @34820 has 72 MA's), (120, 34988), (Start: 132 @35009 has 1 MA's), (Start: 137 @35021 has 19 MA's), (150, 35054), (156, 35069), (162, 35087), (165, 35096), (177, 35132), (195, 35180), (203, 35198), (206, 35210), (218, 35237), (228, 35261), (233, 35273), (236, 35276), (246, 35297), (255, 35318), (261, 35330), (263, 35333), (293, 35405), (301, 35417), (321, 35462), (324, 35468), (333, 35498), (340, 35525), (347, 35543), (349, 35546), (356, 35564), (366, 35597), (372, 35615), (384, 35657), (404, 35723), (412, 35741), (421, 35762), (445, 35807),

Gene: Etoile_34 Start: 27939, Stop: 28805, Start Num: 106
Candidate Starts for Etoile_34:
(Start: 106 @27939 has 51 MA's), (148, 28020), (154, 28044), (158, 28053), (176, 28101), (224, 28209), (230, 28224), (236, 28233), (283, 28335), (347, 28518), (366, 28572), (402, 28701), (421, 28743), (448, 28791),

Gene: Eudoria_48 Start: 35362, Stop: 36186, Start Num: 105
Candidate Starts for Eudoria_48:
(Start: 94 @35350 has 20 MA's), (Start: 105 @35362 has 18 MA's), (153, 35464), (189, 35551), (276, 35722), (322, 35827), (353, 35923), (397, 36076), (410, 36112), (438, 36172),

Gene: Faith5x5_37 Start: 28702, Stop: 29454, Start Num: 131
Candidate Starts for Faith5x5_37:
(107, 28657), (Start: 131 @28702 has 11 MA's), (144, 28729), (175, 28816), (178, 28825), (219, 28915), (222, 28924), (229, 28939), (236, 28951), (302, 29074), (304, 29077), (341, 29197), (378, 29299),

Gene: Fancypants_47 Start: 35868, Stop: 36734, Start Num: 104
Candidate Starts for Fancypants_47:
(Start: 104 @35868 has 64 MA's), (154, 35967), (158, 35976), (236, 36147), (249, 36174), (270, 36222), (288, 36261), (289, 36264), (293, 36270), (299, 36279), (314, 36306), (320, 36330), (368, 36480), (369, 36483), (376, 36507), (394, 36570), (399, 36591), (451, 36699),

Gene: Fastidio_49 Start: 34493, Stop: 35497, Start Num: 57
Candidate Starts for Fastidio_49:

(Start: 57 @34493 has 72 MA's), (Start: 132 @34682 has 1 MA's), (Start: 137 @34694 has 19 MA's), (162, 34760), (165, 34769), (177, 34805), (203, 34871), (206, 34883), (218, 34910), (228, 34934), (236, 34949), (246, 34970), (255, 34991), (261, 35003), (263, 35006), (301, 35090), (324, 35141), (325, 35147), (340, 35198), (347, 35216), (356, 35237), (366, 35270), (372, 35288), (384, 35330), (393, 35357), (412, 35414), (424, 35444), (445, 35480), (448, 35483),

Gene: Fenry_43 Start: 34202, Stop: 34963, Start Num: 137
Candidate Starts for Fenry_43:
(55, 33998), (97, 34127), (Start: 137 @34202 has 19 MA's), (146, 34217), (180, 34316), (187, 34328), (205, 34370), (219, 34397), (266, 34490), (316, 34586), (341, 34676), (365, 34742), (401, 34868),

Gene: Filuzino_45 Start: 34250, Stop: 35254, Start Num: 57
Candidate Starts for Filuzino_45:
(Start: 57 @34250 has 72 MA's), (120, 34418), (Start: 132 @34439 has 1 MA's), (Start: 137 @34451 has 19 MA's), (150, 34484), (156, 34499), (162, 34517), (165, 34526), (177, 34562), (195, 34610), (203, 34628), (206, 34640), (218, 34667), (228, 34691), (233, 34703), (236, 34706), (246, 34727), (255, 34748), (261, 34760), (263, 34763), (301, 34847), (324, 34898), (340, 34955), (347, 34973), (356, 34994), (366, 35027), (372, 35045), (384, 35087), (393, 35114), (412, 35171), (424, 35201), (445, 35237), (448, 35240),

Gene: Finkle_50 Start: 34311, Stop: 35156, Start Num: 92
Candidate Starts for Finkle_50:
(Start: 92 @34311 has 1 MA's), (116, 34359), (150, 34431), (151, 34437), (153, 34440), (164, 34470), (173, 34497), (211, 34575), (242, 34635), (244, 34641), (266, 34683), (309, 34767), (358, 34890), (373, 34941), (377, 34962), (384, 34989),

Gene: Firehouse51_47 Start: 36491, Stop: 37288, Start Num: 121
Candidate Starts for Firehouse51_47:
(Start: 121 @36491 has 15 MA's), (144, 36533), (157, 36569), (158, 36572), (178, 36626), (222, 36728), (229, 36743), (266, 36812), (288, 36860), (336, 36977), (353, 37028), (380, 37124), (414, 37229), (416, 37235), (436, 37277), (442, 37283),

Gene: FirstPlacePfu_34 Start: 27971, Stop: 28837, Start Num: 106
Candidate Starts for FirstPlacePfu_34:
(Start: 106 @27971 has 51 MA's), (148, 28052), (154, 28076), (158, 28085), (176, 28133), (224, 28241), (230, 28256), (283, 28367), (347, 28550), (366, 28604), (402, 28733), (421, 28775), (448, 28823),

Gene: Fishburne_34 Start: 27939, Stop: 28805, Start Num: 106
Candidate Starts for Fishburne_34:
(Start: 106 @27939 has 51 MA's), (148, 28020), (154, 28044), (158, 28053), (176, 28101), (224, 28209), (230, 28224), (283, 28335), (347, 28518), (366, 28572), (402, 28701), (421, 28743), (448, 28791),

Gene: Florinda_57 Start: 36157, Stop: 36951, Start Num: 121
Candidate Starts for Florinda_57:
(Start: 121 @36157 has 15 MA's), (144, 36199), (157, 36235), (158, 36238), (171, 36274), (198, 36334), (222, 36391), (229, 36406), (266, 36475), (288, 36523), (336, 36640), (353, 36691), (380, 36787), (414, 36892), (416, 36898), (436, 36940), (442, 36946),

Gene: Frankie_51 Start: 36473, Stop: 37477, Start Num: 57
Candidate Starts for Frankie_51:

(Start: 57 @36473 has 72 MA's), (120, 36641), (Start: 132 @36662 has 1 MA's), (Start: 137 @36674 has 19 MA's), (150, 36707), (156, 36722), (162, 36740), (165, 36749), (177, 36785), (195, 36833), (203, 36851), (206, 36863), (218, 36890), (228, 36914), (233, 36926), (236, 36929), (246, 36950), (255, 36971), (261, 36983), (263, 36986), (293, 37058), (301, 37070), (303, 37073), (321, 37115), (324, 37121), (333, 37151), (340, 37178), (356, 37217), (366, 37250), (372, 37268), (384, 37310), (393, 37337), (404, 37376), (412, 37394), (421, 37415), (424, 37424), (445, 37460), (451, 37469),

Gene: FroggyToad_47 Start: 33512, Stop: 34357, Start Num: 94
Candidate Starts for FroggyToad_47:
(Start: 94 @33512 has 20 MA's), (Start: 105 @33524 has 18 MA's), (153, 33623), (189, 33710), (201, 33740), (360, 34115), (409, 34286), (410, 34289),

Gene: Frokostdame_47 Start: 34936, Stop: 35751, Start Num: 105
Candidate Starts for Frokostdame_47:
(69, 34861), (Start: 105 @34936 has 18 MA's), (153, 35032), (175, 35089), (241, 35212), (291, 35323), (308, 35356), (336, 35443), (339, 35458), (410, 35683), (438, 35743),

Gene: Fruitloop_46 Start: 36116, Stop: 37120, Start Num: 57
Candidate Starts for Fruitloop_46:
(Start: 57 @36116 has 72 MA's), (120, 36284), (Start: 132 @36305 has 1 MA's), (Start: 137 @36317 has 19 MA's), (150, 36350), (156, 36365), (162, 36383), (165, 36392), (177, 36428), (195, 36476), (203, 36494), (206, 36506), (218, 36533), (228, 36557), (233, 36569), (236, 36572), (246, 36593), (255, 36614), (261, 36626), (263, 36629), (293, 36701), (301, 36713), (324, 36764), (325, 36770), (340, 36821), (347, 36839), (356, 36860), (366, 36893), (372, 36911), (384, 36953), (393, 36980), (412, 37037), (424, 37067), (445, 37103), (448, 37106),

Gene: G4_33 Start: 24732, Stop: 25535, Start Num: 133
Candidate Starts for G4_33:
(Start: 133 @24732 has 5 MA's), (187, 24855), (189, 24858), (208, 24897), (219, 24924), (229, 24948), (248, 24984), (260, 25011), (272, 25044), (285, 25071), (292, 25092), (297, 25101), (298, 25104), (307, 25119), (308, 25122), (322, 25164), (332, 25194), (336, 25206), (346, 25239), (363, 25284), (386, 25374), (410, 25443), (431, 25491), (446, 25524),

Gene: GAL1_34 Start: 30600, Stop: 31448, Start Num: 102
Candidate Starts for GAL1_34:
(Start: 102 @30600 has 1 MA's), (124, 30642), (146, 30684), (179, 30768), (235, 30888), (363, 31203), (395, 31326), (398, 31338), (437, 31428),

Gene: GAL1_39 Start: 32334, Stop: 33173, Start Num: 110
Candidate Starts for GAL1_39:
(58, 32199), (66, 32229), (80, 32286), (110, 32334), (Start: 131 @32376 has 11 MA's), (143, 32403), (208, 32556), (219, 32583), (239, 32622), (250, 32652), (266, 32676), (300, 32757), (308, 32772), (310, 32775), (330, 32838), (368, 32961), (409, 33096), (410, 33099), (414, 33108),

Gene: GMA1_36 Start: 26839, Stop: 27690, Start Num: 112
Candidate Starts for GMA1_36:
(Start: 86 @26791 has 8 MA's), (Start: 111 @26836 has 2 MA's), (112, 26839), (116, 26848), (124, 26860), (164, 26953), (206, 27052), (218, 27079), (221, 27088), (228, 27103), (247, 27142), (290, 27244), (355, 27421), (398, 27580), (427, 27649),

Gene: GMA4_34 Start: 28046, Stop: 28852, Start Num: 115
Candidate Starts for GMA4_34:

(115, 28046), (167, 28157), (168, 28160), (212, 28265), (216, 28271), (230, 28304), (242, 28322), (253, 28346), (280, 28388), (299, 28412), (333, 28517), (366, 28616), (370, 28634), (393, 28709), (415, 28772), (448, 28835), (451, 28841),

Gene: GUmbie_45 Start: 34760, Stop: 35764, Start Num: 57
Candidate Starts for GUmbie_45:
(Start: 57 @34760 has 72 MA's), (Start: 132 @34949 has 1 MA's), (Start: 137 @34961 has 19 MA's), (162, 35027), (165, 35036), (177, 35072), (203, 35138), (206, 35150), (218, 35177), (228, 35201), (236, 35216), (246, 35237), (255, 35258), (261, 35270), (263, 35273), (301, 35357), (321, 35402), (324, 35408), (333, 35438), (340, 35465), (347, 35483), (356, 35504), (366, 35537), (384, 35597), (393, 35624), (404, 35663), (412, 35681), (421, 35702), (424, 35711), (445, 35747), (451, 35756),

Gene: Galactic_47 Start: 35708, Stop: 36574, Start Num: 104
Candidate Starts for Galactic_47:
(Start: 104 @35708 has 64 MA's), (154, 35807), (158, 35816), (236, 35987), (249, 36014), (288, 36101), (289, 36104), (293, 36110), (299, 36119), (314, 36146), (320, 36170), (321, 36173), (368, 36320), (369, 36323), (376, 36347), (394, 36410), (399, 36431), (410, 36458), (439, 36515), (451, 36539),

Gene: Gallia_8 Start: 3136, Stop: 3990, Start Num: 75
Candidate Starts for Gallia_8:
(75, 3136), (77, 3139), (Start: 125 @3184 has 1 MA's), (171, 3289), (175, 3298), (220, 3394), (236, 3427), (262, 3487), (325, 3655), (336, 3691), (350, 3733), (374, 3808), (388, 3868), (415, 3943),

Gene: Gallop_41 Start: 31359, Stop: 32234, Start Num: 91
Candidate Starts for Gallop_41:
(91, 31359), (98, 31368), (146, 31461), (166, 31509), (222, 31644), (278, 31758), (281, 31767), (340, 31929), (374, 32028),

Gene: GaloreK_34 Start: 27935, Stop: 28798, Start Num: 106
Candidate Starts for GaloreK_34:
(Start: 106 @27935 has 51 MA's), (148, 28016), (154, 28040), (158, 28049), (167, 28076), (176, 28097), (221, 28193), (224, 28202), (230, 28217), (236, 28226), (283, 28328), (347, 28511), (366, 28565), (402, 28694), (421, 28736), (448, 28784),

Gene: Gambino_49 Start: 35195, Stop: 35956, Start Num: 137
Candidate Starts for Gambino_49:
(Start: 137 @35195 has 19 MA's), (146, 35210), (181, 35312), (195, 35345), (219, 35390), (222, 35399), (229, 35414), (266, 35483), (316, 35579), (341, 35669), (401, 35861),

Gene: Gandalph_47 Start: 34842, Stop: 35708, Start Num: 104
Candidate Starts for Gandalph_47:
(Start: 104 @34842 has 64 MA's), (154, 34941), (158, 34950), (236, 35121), (249, 35148), (288, 35235), (289, 35238), (293, 35244), (299, 35253), (320, 35304), (321, 35307), (368, 35454), (376, 35481), (394, 35544), (399, 35565),

Gene: Gavriela_34 Start: 28196, Stop: 29059, Start Num: 106
Candidate Starts for Gavriela_34:
(Start: 106 @28196 has 51 MA's), (148, 28277), (154, 28301), (158, 28310), (176, 28358), (191, 28382), (224, 28463), (230, 28478), (283, 28589), (347, 28772), (366, 28826), (402, 28955), (421, 28997), (448, 29045),

Gene: Getalong_59 Start: 38926, Stop: 39705, Start Num: 123

Candidate Starts for Getalong_59:
(Start: 123 @38926 has 10 MA's), (244, 39181), (353, 39439), (379, 39532), (409, 39628),

Gene: GigiOuiOui_44 Start: 34673, Stop: 35677, Start Num: 57
Candidate Starts for GigiOuiOui_44:
(Start: 57 @34673 has 72 MA's), (Start: 132 @34862 has 1 MA's), (Start: 137 @34874 has 19 MA's), (162, 34940), (165, 34949), (177, 34985), (203, 35051), (206, 35063), (218, 35090), (228, 35114), (236, 35129), (246, 35150), (255, 35171), (261, 35183), (263, 35186), (301, 35270), (321, 35315), (324, 35321), (333, 35351), (340, 35378), (347, 35396), (356, 35417), (366, 35450), (384, 35510), (393, 35537), (404, 35576), (412, 35594), (421, 35615), (424, 35624), (445, 35660), (451, 35669),

Gene: Girafales_56 Start: 35966, Stop: 36760, Start Num: 121
Candidate Starts for Girafales_56:
(Start: 121 @35966 has 15 MA's), (144, 36008), (157, 36044), (158, 36047), (175, 36092), (222, 36200), (229, 36215), (236, 36224), (266, 36284), (288, 36332), (336, 36449), (353, 36500), (380, 36596), (414, 36701), (416, 36707), (436, 36749), (442, 36755),

Gene: Girr_48 Start: 35732, Stop: 36736, Start Num: 57
Candidate Starts for Girr_48:
(Start: 57 @35732 has 72 MA's), (Start: 132 @35921 has 1 MA's), (Start: 137 @35933 has 19 MA's), (162, 35999), (165, 36008), (177, 36044), (203, 36110), (206, 36122), (218, 36149), (228, 36173), (236, 36188), (246, 36209), (255, 36230), (261, 36242), (263, 36245), (301, 36329), (321, 36374), (324, 36380), (333, 36410), (340, 36437), (347, 36455), (356, 36476), (366, 36509), (384, 36569), (393, 36596), (404, 36635), (412, 36653), (421, 36674), (424, 36683), (445, 36719), (451, 36728),

Gene: Glaske_34 Start: 28196, Stop: 29059, Start Num: 106
Candidate Starts for Glaske_34:
(Start: 106 @28196 has 51 MA's), (148, 28277), (154, 28301), (158, 28310), (176, 28358), (191, 28382), (224, 28463), (230, 28478), (283, 28589), (347, 28772), (366, 28826), (402, 28955), (421, 28997), (448, 29045),

Gene: Gorge_51 Start: 35716, Stop: 36519, Start Num: 94
Candidate Starts for Gorge_51:
(Start: 94 @35716 has 20 MA's), (119, 35755), (139, 35791), (155, 35830), (166, 35860), (182, 35899), (217, 35962), (220, 35965), (232, 35989), (235, 35992), (247, 36016), (256, 36034), (264, 36043), (282, 36064), (339, 36220), (340, 36223), (360, 36271), (362, 36280), (368, 36307), (397, 36409), (409, 36442), (410, 36445), (414, 36454), (416, 36460), (432, 36493), (442, 36508),

Gene: GreaseLightnin_34 Start: 28179, Stop: 29045, Start Num: 106
Candidate Starts for GreaseLightnin_34:
(Start: 106 @28179 has 51 MA's), (154, 28284), (158, 28293), (176, 28341), (224, 28449), (230, 28464), (283, 28575), (347, 28758), (366, 28812), (402, 28941), (421, 28983), (448, 29031),

Gene: Grimmer_55 Start: 37247, Stop: 38248, Start Num: 57
Candidate Starts for Grimmer_55:
(Start: 57 @37247 has 72 MA's), (Start: 132 @37436 has 1 MA's), (Start: 137 @37448 has 19 MA's), (156, 37496), (162, 37514), (165, 37523), (177, 37559), (203, 37625), (206, 37637), (218, 37664), (228, 37688), (236, 37703), (246, 37724), (255, 37745), (261, 37757), (263, 37760), (301, 37841), (321, 37886), (324, 37892), (340, 37949), (347, 37967), (356, 37988), (366, 38021), (372, 38039), (384, 38081), (393, 38108), (404, 38147), (412, 38165), (421, 38186), (445, 38231), (448, 38234),

Gene: HC_34 Start: 27658, Stop: 28527, Start Num: 106
Candidate Starts for HC_34:

(Start: 106 @27658 has 51 MA's), (154, 27766), (158, 27775), (176, 27823), (224, 27931), (230, 27946), (283, 28057), (347, 28240), (366, 28294), (402, 28423), (421, 28465), (448, 28513),

Gene: HUHilltop_34 Start: 27972, Stop: 28835, Start Num: 106
Candidate Starts for HUHilltop_34:
(Start: 106 @27972 has 51 MA's), (148, 28053), (154, 28077), (158, 28086), (167, 28113), (176, 28134), (221, 28230), (224, 28239), (230, 28254), (283, 28365), (347, 28548), (366, 28602), (421, 28773), (448, 28821),

Gene: Hamulus_48 Start: 36115, Stop: 37119, Start Num: 57
Candidate Starts for Hamulus_48:
(Start: 57 @36115 has 72 MA's), (Start: 132 @36304 has 1 MA's), (Start: 137 @36316 has 19 MA's), (162, 36382), (165, 36391), (177, 36427), (203, 36493), (206, 36505), (218, 36532), (228, 36556), (236, 36571), (246, 36592), (255, 36613), (261, 36625), (263, 36628), (301, 36712), (321, 36757), (324, 36763), (333, 36793), (340, 36820), (347, 36838), (356, 36859), (366, 36892), (384, 36952), (393, 36979), (404, 37018), (412, 37036), (421, 37057), (424, 37066), (445, 37102), (451, 37111),

Gene: Harley_50 Start: 35468, Stop: 36472, Start Num: 57
Candidate Starts for Harley_50:
(Start: 57 @35468 has 72 MA's), (Start: 132 @35657 has 1 MA's), (Start: 137 @35669 has 19 MA's), (162, 35735), (165, 35744), (177, 35780), (203, 35846), (206, 35858), (218, 35885), (228, 35909), (236, 35924), (246, 35945), (255, 35966), (261, 35978), (263, 35981), (301, 36065), (321, 36110), (324, 36116), (333, 36146), (340, 36173), (347, 36191), (356, 36212), (366, 36245), (384, 36305), (404, 36371), (412, 36389), (421, 36410), (424, 36419), (445, 36455), (451, 36464),

Gene: Hegedechwinu_46 Start: 33868, Stop: 34734, Start Num: 104
Candidate Starts for Hegedechwinu_46:
(6, 33370), (10, 33421), (21, 33544), (23, 33550), (26, 33565), (33, 33619), (43, 33691), (48, 33700), (Start: 104 @33868 has 64 MA's), (154, 33967), (158, 33976), (236, 34147), (249, 34174), (288, 34261), (289, 34264), (293, 34270), (299, 34279), (320, 34330), (321, 34333), (368, 34480), (369, 34483), (376, 34507), (394, 34570), (399, 34591), (439, 34675), (451, 34699),

Gene: Holliday_59 Start: 38259, Stop: 39098, Start Num: 111
Candidate Starts for Holliday_59:
(54, 38094), (Start: 111 @38259 has 2 MA's), (124, 38286), (227, 38502), (235, 38517), (254, 38562), (414, 39027), (427, 39057), (437, 39078),

Gene: Hyzer_52 Start: 37874, Stop: 38794, Start Num: 73
Candidate Starts for Hyzer_52:
(Start: 73 @37874 has 1 MA's), (Start: 78 @37886 has 1 MA's), (Start: 96 @37919 has 7 MA's), (Start: 103 @37931 has 4 MA's), (Start: 131 @37979 has 11 MA's), (154, 38033), (176, 38093), (275, 38303), (286, 38321), (342, 38462), (359, 38504), (369, 38543), (394, 38630), (415, 38687),

Gene: InLimbo_43 Start: 30497, Stop: 31246, Start Num: 131
Candidate Starts for InLimbo_43:
(Start: 131 @30497 has 11 MA's), (144, 30524), (146, 30527), (Start: 159 @30566 has 1 MA's), (175, 30611), (197, 30662), (205, 30680), (229, 30731), (304, 30869), (323, 30920), (378, 31091),

Gene: IrishSherpFalk_47 Start: 36049, Stop: 36915, Start Num: 104
Candidate Starts for IrishSherpFalk_47:
(Start: 104 @36049 has 64 MA's), (154, 36148), (158, 36157), (236, 36328), (249, 36355), (288, 36442), (289, 36445), (293, 36451), (299, 36460), (320, 36511), (321, 36514), (368, 36661), (369, 36664), (376, 36688), (394, 36751), (415, 36808), (448, 36874), (449, 36877),

Gene: Island3_36 Start: 29775, Stop: 30644, Start Num: 106
Candidate Starts for Island3_36:
(Start: 106 @29775 has 51 MA's), (154, 29883), (158, 29892), (176, 29940), (224, 30048), (230, 30063), (283, 30174), (347, 30357), (366, 30411), (402, 30540), (421, 30582), (448, 30630),

Gene: Jabbawokkie_61 Start: 36226, Stop: 37107, Start Num: 86
Candidate Starts for Jabbawokkie_61:
(Start: 86 @36226 has 8 MA's), (141, 36322), (161, 36367), (222, 36508), (284, 36643), (355, 36838), (367, 36880), (442, 37096),

Gene: Jablanski_48 Start: 37976, Stop: 38839, Start Num: 103
Candidate Starts for Jablanski_48:
(Start: 103 @37976 has 4 MA's), (158, 38093), (188, 38171), (236, 38264), (262, 38318), (321, 38435), (369, 38588), (394, 38675), (415, 38732),

Gene: JalFarm20_56 Start: 37874, Stop: 38740, Start Num: 104
Candidate Starts for JalFarm20_56:
(Start: 104 @37874 has 64 MA's), (154, 37973), (158, 37982), (236, 38153), (249, 38180), (270, 38228), (288, 38267), (289, 38270), (293, 38276), (299, 38285), (314, 38312), (320, 38336), (368, 38486), (369, 38489), (376, 38513), (394, 38576), (399, 38597), (410, 38624), (439, 38681), (451, 38705),

Gene: Jalammah_48 Start: 35515, Stop: 36279, Start Num: 137
Candidate Starts for Jalammah_48:
(55, 35311), (97, 35440), (Start: 137 @35515 has 19 MA's), (175, 35614), (179, 35626), (215, 35704), (220, 35716), (229, 35737), (234, 35746), (266, 35806), (316, 35902), (341, 35992), (401, 36184),

Gene: James_50 Start: 35673, Stop: 36476, Start Num: 94
Candidate Starts for James_50:
(Start: 94 @35673 has 20 MA's), (119, 35712), (139, 35748), (155, 35787), (166, 35817), (182, 35856), (217, 35919), (220, 35922), (232, 35946), (235, 35949), (247, 35973), (256, 35991), (264, 36000), (282, 36021), (339, 36177), (340, 36180), (360, 36228), (362, 36237), (368, 36264), (397, 36366), (409, 36399), (410, 36402), (414, 36411), (416, 36417), (432, 36450), (442, 36465),

Gene: Jant_52 Start: 37127, Stop: 38131, Start Num: 57
Candidate Starts for Jant_52:
(Start: 57 @37127 has 72 MA's), (120, 37295), (Start: 132 @37316 has 1 MA's), (Start: 137 @37328 has 19 MA's), (150, 37361), (156, 37376), (162, 37394), (165, 37403), (177, 37439), (195, 37487), (203, 37505), (206, 37517), (218, 37544), (228, 37568), (233, 37580), (236, 37583), (246, 37604), (255, 37625), (261, 37637), (263, 37640), (301, 37724), (321, 37769), (324, 37775), (340, 37832), (347, 37850), (356, 37871), (366, 37904), (372, 37922), (384, 37964), (393, 37991), (412, 38048), (424, 38078), (445, 38114), (448, 38117),

Gene: Jebeks_35 Start: 27924, Stop: 28790, Start Num: 106
Candidate Starts for Jebeks_35:
(Start: 106 @27924 has 51 MA's), (148, 28005), (154, 28029), (158, 28038), (167, 28065), (176, 28086), (224, 28194), (230, 28209), (283, 28320), (347, 28503), (366, 28557), (402, 28686), (421, 28728), (448, 28776),

Gene: Jennelsea_44 Start: 32831, Stop: 33640, Start Num: 108
Candidate Starts for Jennelsea_44:

(Start: 108 @32831 has 2 MA's), (Start: 121 @32861 has 15 MA's), (Start: 142 @32885 has 2 MA's), (144, 32888), (157, 32924), (158, 32927), (175, 32972), (222, 33080), (229, 33095), (266, 33164), (288, 33212), (336, 33329), (353, 33380), (380, 33476), (414, 33581), (416, 33587), (436, 33629), (442, 33635),

Gene: Job42_48 Start: 36721, Stop: 37725, Start Num: 57
Candidate Starts for Job42_48:
(Start: 57 @36721 has 72 MA's), (Start: 132 @36910 has 1 MA's), (Start: 137 @36922 has 19 MA's), (162, 36988), (165, 36997), (177, 37033), (203, 37099), (206, 37111), (218, 37138), (228, 37162), (236, 37177), (246, 37198), (255, 37219), (261, 37231), (263, 37234), (301, 37318), (321, 37363), (324, 37369), (333, 37399), (340, 37426), (347, 37444), (356, 37465), (366, 37498), (384, 37558), (393, 37585), (404, 37624), (412, 37642), (421, 37663), (424, 37672), (445, 37708), (451, 37717),

Gene: JoeDirt_59 Start: 42675, Stop: 43493, Start Num: 76
Candidate Starts for JoeDirt_59:
(Start: 76 @42675 has 9 MA's), (90, 42702), (112, 42729), (118, 42741), (154, 42801), (181, 42876), (188, 42888), (231, 42978), (236, 42984), (289, 43089), (315, 43119), (354, 43224), (392, 43347), (418, 43422), (425, 43437),

Gene: JohnLord_53 Start: 44026, Stop: 44889, Start Num: 89
Candidate Starts for JohnLord_53:
(89, 44026), (93, 44032), (Start: 122 @44089 has 1 MA's), (Start: 133 @44107 has 5 MA's), (135, 44113), (147, 44137), (151, 44155), (160, 44176), (169, 44203), (185, 44245), (199, 44275), (213, 44302), (243, 44362), (361, 44644), (381, 44719), (400, 44782), (413, 44815), (442, 44878),

Gene: JuJu_50 Start: 36277, Stop: 37092, Start Num: 105
Candidate Starts for JuJu_50:
(69, 36202), (Start: 105 @36277 has 18 MA's), (153, 36373), (241, 36553), (291, 36664), (308, 36697), (336, 36784), (410, 37024),

Gene: Juice456_49 Start: 36470, Stop: 37336, Start Num: 104
Candidate Starts for Juice456_49:
(6, 35972), (10, 36023), (21, 36146), (23, 36152), (26, 36167), (33, 36221), (43, 36293), (48, 36302), (Start: 104 @36470 has 64 MA's), (154, 36569), (158, 36578), (236, 36749), (249, 36776), (288, 36863), (289, 36866), (293, 36872), (299, 36881), (320, 36932), (321, 36935), (368, 37082), (369, 37085), (376, 37109), (394, 37172), (399, 37193), (439, 37277), (451, 37301),

Gene: Juicebox_36 Start: 30688, Stop: 31461, Start Num: 125
Candidate Starts for Juicebox_36:
(Start: 125 @30688 has 1 MA's), (126, 30691), (190, 30829), (238, 30916), (242, 30925), (244, 30931), (270, 30994), (293, 31045), (309, 31066), (351, 31171), (358, 31189), (373, 31240), (384, 31288), (408, 31363), (435, 31423), (437, 31426), (450, 31453),

Gene: Jung_33 Start: 27903, Stop: 28766, Start Num: 106
Candidate Starts for Jung_33:
(Start: 106 @27903 has 51 MA's), (148, 27984), (154, 28008), (158, 28017), (176, 28065), (191, 28089), (224, 28170), (230, 28185), (283, 28296), (347, 28479), (366, 28533), (402, 28662), (421, 28704), (448, 28752),

Gene: Juniormint_34 Start: 27975, Stop: 28841, Start Num: 106
Candidate Starts for Juniormint_34:
(Start: 106 @27975 has 51 MA's), (148, 28056), (154, 28080), (158, 28089), (167, 28116), (176, 28137), (224, 28245), (230, 28260), (283, 28371), (347, 28554), (366, 28608), (402, 28737), (421,

28779), (448, 28827),

Gene: Juniper1_44 Start: 34680, Stop: 35546, Start Num: 104
Candidate Starts for Juniper1_44:
(Start: 104 @34680 has 64 MA's), (154, 34779), (158, 34788), (236, 34959), (249, 34986), (288, 35073), (289, 35076), (293, 35082), (299, 35091), (320, 35142), (321, 35145), (368, 35292), (369, 35295), (376, 35319), (394, 35382), (399, 35403), (451, 35511),

Gene: KappaFarmDelta_46 Start: 33140, Stop: 33901, Start Num: 137
Candidate Starts for KappaFarmDelta_46:
(55, 32939), (97, 33065), (Start: 137 @33140 has 19 MA's), (146, 33155), (180, 33254), (187, 33266), (205, 33308), (219, 33335), (258, 33416), (266, 33428), (316, 33524), (341, 33614), (365, 33680), (401, 33806),

Gene: Karhdo_46 Start: 35555, Stop: 36559, Start Num: 57
Candidate Starts for Karhdo_46:
(Start: 57 @35555 has 72 MA's), (Start: 132 @35744 has 1 MA's), (Start: 137 @35756 has 19 MA's), (162, 35822), (165, 35831), (177, 35867), (203, 35933), (206, 35945), (218, 35972), (228, 35996), (236, 36011), (246, 36032), (255, 36053), (261, 36065), (263, 36068), (301, 36152), (321, 36197), (324, 36203), (333, 36233), (340, 36260), (347, 36278), (356, 36299), (366, 36332), (384, 36392), (393, 36419), (404, 36458), (412, 36476), (421, 36497), (424, 36506), (445, 36542), (451, 36551),

Gene: Kari_34 Start: 27936, Stop: 28802, Start Num: 106
Candidate Starts for Kari_34:
(Start: 106 @27936 has 51 MA's), (148, 28017), (154, 28041), (158, 28050), (176, 28098), (224, 28206), (230, 28221), (283, 28332), (347, 28515), (366, 28569), (402, 28698), (421, 28740), (448, 28788),

Gene: Kenna_56 Start: 37127, Stop: 37906, Start Num: 123
Candidate Starts for Kenna_56:
(Start: 123 @37127 has 10 MA's), (244, 37382), (353, 37640), (379, 37733), (409, 37829),

Gene: Kersh_48 Start: 36769, Stop: 37635, Start Num: 104
Candidate Starts for Kersh_48:
(Start: 104 @36769 has 64 MA's), (154, 36868), (158, 36877), (236, 37048), (249, 37075), (288, 37162), (289, 37165), (293, 37171), (299, 37180), (320, 37231), (368, 37381), (369, 37384), (376, 37408), (394, 37471), (415, 37528), (448, 37594), (449, 37597),

Gene: KilKor_34 Start: 28196, Stop: 29059, Start Num: 106
Candidate Starts for KilKor_34:
(Start: 106 @28196 has 51 MA's), (148, 28277), (154, 28301), (158, 28310), (176, 28358), (191, 28382), (224, 28463), (230, 28478), (283, 28589), (347, 28772), (366, 28826), (402, 28955), (421, 28997), (448, 29045),

Gene: Kimberlium_48 Start: 36118, Stop: 36984, Start Num: 104
Candidate Starts for Kimberlium_48:
(Start: 104 @36118 has 64 MA's), (154, 36217), (158, 36226), (221, 36364), (236, 36397), (249, 36424), (270, 36472), (288, 36511), (289, 36514), (293, 36520), (299, 36529), (314, 36556), (320, 36580), (321, 36583), (368, 36730), (369, 36733), (376, 36757), (394, 36820), (399, 36841), (410, 36868), (451, 36949),

Gene: Kingsley_42 Start: 33690, Stop: 34556, Start Num: 104
Candidate Starts for Kingsley_42:

(Start: 104 @33690 has 64 MA's), (118, 33717), (154, 33789), (158, 33798), (236, 33969), (270, 34044), (288, 34083), (289, 34086), (293, 34092), (299, 34101), (320, 34152), (321, 34155), (364, 34281), (368, 34302), (369, 34305), (376, 34329), (394, 34392), (415, 34449), (448, 34515), (449, 34518),

Gene: Kita_49 Start: 35359, Stop: 36195, Start Num: 94
Candidate Starts for Kita_49:
(Start: 94 @35359 has 20 MA's), (Start: 105 @35371 has 18 MA's), (153, 35473), (189, 35560), (276, 35731), (322, 35836), (353, 35932), (397, 36085), (410, 36121), (438, 36181),

Gene: Krakatau_45 Start: 35226, Stop: 36230, Start Num: 57
Candidate Starts for Krakatau_45:
(1, 34731), (3, 34782), (8, 34905), (9, 34911), (12, 34926), (15, 34980), (24, 35052), (27, 35061), (Start: 57 @35226 has 72 MA's), (Start: 132 @35415 has 1 MA's), (Start: 137 @35427 has 19 MA's), (162, 35493), (165, 35502), (177, 35538), (203, 35604), (206, 35616), (218, 35643), (228, 35667), (236, 35682), (246, 35703), (255, 35724), (261, 35736), (263, 35739), (301, 35823), (321, 35868), (324, 35874), (325, 35880), (333, 35904), (340, 35931), (347, 35949), (356, 35970), (366, 36003), (384, 36063), (393, 36090), (404, 36129), (412, 36147), (421, 36168), (424, 36177), (445, 36213), (451, 36222),

Gene: KristaRAM_47 Start: 36438, Stop: 37442, Start Num: 57
Candidate Starts for KristaRAM_47:
(Start: 57 @36438 has 72 MA's), (120, 36606), (Start: 132 @36627 has 1 MA's), (Start: 137 @36639 has 19 MA's), (150, 36672), (156, 36687), (162, 36705), (165, 36714), (177, 36750), (195, 36798), (203, 36816), (206, 36828), (218, 36855), (228, 36879), (233, 36891), (236, 36894), (246, 36915), (255, 36936), (261, 36948), (263, 36951), (301, 37035), (321, 37080), (324, 37086), (333, 37116), (340, 37143), (347, 37161), (356, 37182), (366, 37215), (372, 37233), (384, 37275), (393, 37302), (412, 37359), (424, 37389), (445, 37425), (448, 37428),

Gene: Ksquared_34 Start: 27953, Stop: 28819, Start Num: 106
Candidate Starts for Ksquared_34:
(Start: 106 @27953 has 51 MA's), (148, 28034), (154, 28058), (158, 28067), (167, 28094), (176, 28115), (224, 28223), (230, 28238), (283, 28349), (347, 28532), (366, 28586), (402, 28715), (421, 28757), (448, 28805),

Gene: Kuwabara_52 Start: 36557, Stop: 37444, Start Num: 79
Candidate Starts for Kuwabara_52:
(61, 36500), (62, 36503), (Start: 79 @36557 has 1 MA's), (Start: 121 @36629 has 15 MA's), (Start: 131 @36644 has 11 MA's), (143, 36671), (151, 36695), (219, 36854), (229, 36878), (292, 37013), (306, 37037), (330, 37109), (336, 37130), (353, 37181), (409, 37367), (410, 37370),

Gene: Langerak_34 Start: 27955, Stop: 28818, Start Num: 106
Candidate Starts for Langerak_34:
(Start: 106 @27955 has 51 MA's), (148, 28036), (154, 28060), (158, 28069), (167, 28096), (176, 28117), (221, 28213), (224, 28222), (230, 28237), (236, 28246), (283, 28348), (347, 28531), (366, 28585), (402, 28714), (421, 28756), (448, 28804),

Gene: LastJedi_41 Start: 31571, Stop: 32380, Start Num: 108
Candidate Starts for LastJedi_41:
(Start: 108 @31571 has 2 MA's), (Start: 121 @31601 has 15 MA's), (Start: 142 @31625 has 2 MA's), (144, 31628), (157, 31664), (158, 31667), (175, 31712), (222, 31820), (229, 31835), (266, 31904), (288, 31952), (336, 32069), (353, 32120), (380, 32216), (414, 32321), (416, 32327), (436, 32369), (442, 32375),

Gene: Latretium_50 Start: 36344, Stop: 37345, Start Num: 57
Candidate Starts for Latretium_50:
(Start: 57 @36344 has 72 MA's), (120, 36512), (Start: 132 @36533 has 1 MA's), (Start: 137 @36545 has 19 MA's), (162, 36611), (165, 36620), (177, 36656), (203, 36722), (204, 36728), (206, 36734), (218, 36761), (233, 36797), (236, 36800), (246, 36821), (255, 36842), (261, 36854), (263, 36857), (301, 36938), (321, 36983), (324, 36989), (325, 36995), (333, 37019), (340, 37046), (347, 37064), (356, 37085), (366, 37118), (372, 37136), (384, 37178), (404, 37244), (412, 37262), (421, 37283), (445, 37328),

Gene: Leozinho_47 Start: 35147, Stop: 36013, Start Num: 104
Candidate Starts for Leozinho_47:
(Start: 104 @35147 has 64 MA's), (154, 35246), (158, 35255), (236, 35426), (249, 35453), (288, 35540), (289, 35543), (293, 35549), (299, 35558), (320, 35609), (321, 35612), (329, 35642), (368, 35759), (376, 35786), (394, 35849), (399, 35870),

Gene: Leroy_58 Start: 36986, Stop: 37864, Start Num: 88
Candidate Starts for Leroy_58:
(Start: 88 @36986 has 1 MA's), (141, 37082), (146, 37088), (414, 37793), (427, 37823), (437, 37844),

Gene: LilMoolah_46 Start: 35122, Stop: 36126, Start Num: 57
Candidate Starts for LilMoolah_46:
(29, 34966), (Start: 57 @35122 has 72 MA's), (Start: 137 @35323 has 19 MA's), (162, 35389), (165, 35398), (177, 35434), (203, 35500), (204, 35506), (206, 35512), (218, 35539), (233, 35575), (236, 35578), (246, 35599), (255, 35620), (261, 35632), (263, 35635), (301, 35719), (321, 35764), (324, 35770), (325, 35776), (333, 35800), (340, 35827), (347, 35845), (356, 35866), (366, 35899), (384, 35959), (393, 35986), (404, 36025), (412, 36043), (421, 36064), (445, 36109), (451, 36118),

Gene: LilSpotty_46 Start: 32678, Stop: 33556, Start Num: 86
Candidate Starts for LilSpotty_46:
(38, 32504), (Start: 86 @32678 has 8 MA's), (141, 32774), (209, 32927), (220, 32951), (222, 32957), (284, 33092), (367, 33329), (427, 33515),

Gene: Lilas_45 Start: 36717, Stop: 37589, Start Num: 96
Candidate Starts for Lilas_45:
(Start: 96 @36717 has 7 MA's), (Start: 103 @36729 has 4 MA's), (154, 36834), (158, 36843), (236, 37014), (262, 37068), (275, 37098), (342, 37257), (369, 37338), (415, 37482),

Gene: LittleShirley_47 Start: 36153, Stop: 37157, Start Num: 57
Candidate Starts for LittleShirley_47:
(Start: 57 @36153 has 72 MA's), (120, 36321), (Start: 132 @36342 has 1 MA's), (Start: 137 @36354 has 19 MA's), (162, 36420), (165, 36429), (177, 36465), (203, 36531), (218, 36570), (220, 36573), (228, 36594), (236, 36609), (246, 36630), (255, 36651), (261, 36663), (263, 36666), (301, 36750), (321, 36795), (324, 36801), (333, 36831), (340, 36858), (347, 36876), (356, 36897), (366, 36930), (372, 36948), (384, 36990), (393, 37017), (404, 37056), (412, 37074), (421, 37095), (424, 37104), (445, 37140), (451, 37149),

Gene: Llij_44 Start: 34533, Stop: 35399, Start Num: 104
Candidate Starts for Llij_44:
(Start: 104 @34533 has 64 MA's), (154, 34632), (158, 34641), (236, 34812), (249, 34839), (288, 34926), (289, 34929), (293, 34935), (299, 34944), (320, 34995), (321, 34998), (329, 35028), (368, 35145), (376, 35172), (394, 35235), (399, 35256),

Gene: LordFarquaad_45 Start: 32464, Stop: 33300, Start Num: 94
Candidate Starts for LordFarquaad_45:
(Start: 94 @32464 has 20 MA's), (Start: 105 @32476 has 18 MA's), (153, 32578), (189, 32665), (276, 32836), (322, 32941), (353, 33037), (397, 33190), (410, 33226), (438, 33286),

Gene: LordVader_41 Start: 30204, Stop: 30983, Start Num: 121
Candidate Starts for LordVader_41:
(Start: 108 @30174 has 2 MA's), (Start: 121 @30204 has 15 MA's), (Start: 142 @30228 has 2 MA's), (144, 30231), (157, 30267), (158, 30270), (175, 30315), (222, 30423), (229, 30438), (266, 30507), (288, 30555), (336, 30672), (353, 30723), (380, 30819), (414, 30924), (416, 30930), (436, 30972), (442, 30978),

Gene: Lucia_46 Start: 34677, Stop: 35543, Start Num: 104
Candidate Starts for Lucia_46:
(Start: 104 @34677 has 64 MA's), (154, 34776), (158, 34785), (236, 34956), (249, 34983), (288, 35070), (289, 35073), (293, 35079), (299, 35088), (320, 35139), (321, 35142), (329, 35172), (368, 35289), (376, 35316), (394, 35379), (399, 35400),

Gene: LunaBlu_50 Start: 36367, Stop: 37233, Start Num: 104
Candidate Starts for LunaBlu_50:
(Start: 104 @36367 has 64 MA's), (154, 36466), (158, 36475), (236, 36646), (249, 36673), (288, 36760), (289, 36763), (293, 36769), (299, 36778), (314, 36805), (320, 36829), (321, 36832), (368, 36979), (369, 36982), (376, 37006), (394, 37069), (399, 37090), (410, 37117), (439, 37174), (451, 37198),

Gene: LunaStella_45 Start: 34115, Stop: 34981, Start Num: 84
Candidate Starts for LunaStella_45:
(Start: 84 @34115 has 10 MA's), (126, 34199), (Start: 133 @34211 has 5 MA's), (135, 34217), (147, 34241), (151, 34259), (168, 34304), (169, 34307), (183, 34343), (207, 34385), (236, 34439), (241, 34448), (243, 34454), (252, 34475), (284, 34535), (291, 34553), (344, 34694), (361, 34736), (381, 34811), (400, 34874), (413, 34907),

Gene: Lutum_61 Start: 38291, Stop: 39070, Start Num: 123
Candidate Starts for Lutum_61:
(Start: 123 @38291 has 10 MA's), (244, 38546), (353, 38804), (379, 38897), (409, 38993),

Gene: Lysidious_44 Start: 34244, Stop: 35065, Start Num: 105
Candidate Starts for Lysidious_44:
(Start: 105 @34244 has 18 MA's), (157, 34352), (193, 34442), (241, 34520), (248, 34538), (250, 34547), (298, 34646), (323, 34709), (330, 34730), (336, 34751), (360, 34817), (362, 34826), (409, 34988), (410, 34991),

Gene: MadMen_42 Start: 34172, Stop: 35179, Start Num: 57
Candidate Starts for MadMen_42:
(1, 33677), (3, 33728), (8, 33851), (9, 33857), (12, 33872), (15, 33926), (24, 33998), (27, 34007), (Start: 57 @34172 has 72 MA's), (Start: 132 @34364 has 1 MA's), (Start: 137 @34376 has 19 MA's), (162, 34442), (165, 34451), (177, 34487), (203, 34553), (206, 34565), (218, 34592), (228, 34616), (236, 34631), (246, 34652), (255, 34673), (261, 34685), (263, 34688), (301, 34772), (321, 34817), (324, 34823), (325, 34829), (333, 34853), (340, 34880), (347, 34898), (356, 34919), (366, 34952), (384, 35012), (393, 35039), (404, 35078), (412, 35096), (421, 35117), (424, 35126), (445, 35162), (451, 35171),

Gene: Madavieve_43 Start: 34739, Stop: 35503, Start Num: 131

Candidate Starts for Madavieve_43:
(Start: 131 @34739 has 11 MA's), (144, 34766), (146, 34769), (155, 34796), (158, 34805), (180, 34868), (187, 34880), (206, 34922), (219, 34949), (266, 35042), (292, 35096), (328, 35189), (335, 35210), (341, 35234), (349, 35252), (357, 35273), (358, 35276), (360, 35279), (371, 35303), (384, 35354), (385, 35357), (403, 35417), (420, 35453), (430, 35474),

Gene: Madiba_43 Start: 33464, Stop: 34468, Start Num: 57
Candidate Starts for Madiba_43:
(Start: 57 @33464 has 72 MA's), (Start: 132 @33653 has 1 MA's), (Start: 137 @33665 has 19 MA's), (162, 33731), (165, 33740), (177, 33776), (203, 33842), (206, 33854), (218, 33881), (228, 33905), (236, 33920), (246, 33941), (255, 33962), (261, 33974), (263, 33977), (301, 34061), (321, 34106), (324, 34112), (333, 34142), (340, 34169), (347, 34187), (356, 34208), (366, 34241), (384, 34301), (393, 34328), (404, 34367), (412, 34385), (421, 34406), (424, 34415), (445, 34451), (451, 34460),

Gene: Mahavrat_44 Start: 34476, Stop: 35360, Start Num: 104
Candidate Starts for Mahavrat_44:
(Start: 104 @34476 has 64 MA's), (154, 34575), (158, 34584), (231, 34767), (236, 34773), (270, 34848), (288, 34887), (289, 34890), (293, 34896), (299, 34905), (314, 34932), (320, 34956), (321, 34959), (368, 35106), (369, 35109), (376, 35133), (394, 35196), (399, 35217), (451, 35325),

Gene: Majeke_34 Start: 27977, Stop: 28843, Start Num: 106
Candidate Starts for Majeke_34:
(Start: 106 @27977 has 51 MA's), (148, 28058), (154, 28082), (158, 28091), (176, 28139), (224, 28247), (230, 28262), (283, 28373), (347, 28556), (366, 28610), (402, 28739), (421, 28781), (448, 28829),

Gene: MakCheese_59 Start: 40021, Stop: 40845, Start Num: 103
Candidate Starts for MakCheese_59:
(25, 39715), (28, 39724), (52, 39862), (Start: 103 @40021 has 4 MA's), (154, 40123), (157, 40129), (305, 40429), (331, 40504), (345, 40558), (363, 40600), (383, 40672), (392, 40699), (395, 40714), (418, 40774),

Gene: Malachai_44 Start: 35305, Stop: 36069, Start Num: 137
Candidate Starts for Malachai_44:
(44, 35065), (60, 35119), (71, 35164), (97, 35230), (Start: 137 @35305 has 19 MA's), (146, 35320), (Start: 159 @35359 has 1 MA's), (179, 35416), (215, 35494), (220, 35506), (229, 35527), (266, 35596), (316, 35692), (341, 35782), (401, 35974),

Gene: Malisha_52 Start: 35598, Stop: 36443, Start Num: 102
Candidate Starts for Malisha_52:
(68, 35511), (Start: 102 @35598 has 1 MA's), (146, 35682), (235, 35883), (363, 36198), (395, 36321), (398, 36333), (437, 36423),

Gene: Malithi_34 Start: 27862, Stop: 28728, Start Num: 106
Candidate Starts for Malithi_34:
(Start: 106 @27862 has 51 MA's), (148, 27943), (154, 27967), (158, 27976), (167, 28003), (176, 28024), (224, 28132), (230, 28147), (283, 28258), (347, 28441), (366, 28495), (421, 28666), (448, 28714),

Gene: Manasvini_49 Start: 35374, Stop: 36210, Start Num: 94
Candidate Starts for Manasvini_49:
(Start: 94 @35374 has 20 MA's), (Start: 105 @35386 has 18 MA's), (153, 35488), (189, 35575), (276, 35746), (322, 35851), (353, 35947), (397, 36100), (410, 36136), (438, 36196),

Gene: Mangethe_34 Start: 27977, Stop: 28843, Start Num: 106
Candidate Starts for Mangethe_34:
(Start: 106 @27977 has 51 MA's), (148, 28058), (154, 28082), (158, 28091), (176, 28139), (224, 28247), (230, 28262), (283, 28373), (347, 28556), (366, 28610), (402, 28739), (421, 28781), (448, 28829),

Gene: Mantra_44 Start: 34639, Stop: 35643, Start Num: 57
Candidate Starts for Mantra_44:
(Start: 57 @34639 has 72 MA's), (Start: 132 @34828 has 1 MA's), (Start: 137 @34840 has 19 MA's), (162, 34906), (165, 34915), (177, 34951), (203, 35017), (206, 35029), (218, 35056), (228, 35080), (236, 35095), (246, 35116), (255, 35137), (261, 35149), (263, 35152), (301, 35236), (321, 35281), (324, 35287), (333, 35317), (340, 35344), (347, 35362), (356, 35383), (366, 35416), (384, 35476), (393, 35503), (404, 35542), (412, 35560), (421, 35581), (424, 35590), (445, 35626), (451, 35635),

Gene: Mao1_50 Start: 43092, Stop: 43892, Start Num: 122
Candidate Starts for Mao1_50:
(89, 43029), (93, 43035), (Start: 122 @43092 has 1 MA's), (Start: 133 @43110 has 5 MA's), (135, 43116), (147, 43140), (151, 43158), (160, 43179), (169, 43206), (185, 43248), (199, 43278), (213, 43305), (243, 43365), (361, 43647), (381, 43722), (400, 43785), (413, 43818), (442, 43881),

Gene: Maravista_47 Start: 35877, Stop: 36743, Start Num: 104
Candidate Starts for Maravista_47:
(Start: 104 @35877 has 64 MA's), (154, 35976), (158, 35985), (221, 36123), (236, 36156), (249, 36183), (270, 36231), (288, 36270), (289, 36273), (293, 36279), (299, 36288), (314, 36315), (320, 36339), (321, 36342), (368, 36489), (369, 36492), (376, 36516), (394, 36579), (399, 36600), (451, 36708),

Gene: Maridalia_49 Start: 35508, Stop: 36332, Start Num: 105
Candidate Starts for Maridalia_49:
(16, 35151), (20, 35184), (46, 35352), (Start: 105 @35508 has 18 MA's), (153, 35610), (189, 35697), (322, 35973), (353, 36069), (409, 36255), (410, 36258), (438, 36318),

Gene: Marker_48 Start: 35024, Stop: 36025, Start Num: 57
Candidate Starts for Marker_48:
(Start: 57 @35024 has 72 MA's), (120, 35192), (Start: 132 @35213 has 1 MA's), (Start: 137 @35225 has 19 MA's), (162, 35291), (165, 35300), (177, 35336), (203, 35402), (218, 35441), (220, 35444), (233, 35477), (236, 35480), (246, 35501), (255, 35522), (261, 35534), (263, 35537), (301, 35618), (321, 35663), (324, 35669), (333, 35699), (340, 35726), (347, 35744), (349, 35747), (356, 35765), (366, 35798), (372, 35816), (384, 35858), (393, 35885), (404, 35924), (412, 35942), (421, 35963), (424, 35972), (445, 36008), (451, 36017),

Gene: Mask_52 Start: 46012, Stop: 46845, Start Num: 106
Candidate Starts for Mask_52:
(37, 45796), (42, 45826), (56, 45862), (59, 45886), (74, 45952), (Start: 106 @46012 has 51 MA's), (154, 46111), (175, 46168), (200, 46222), (201, 46225), (236, 46291), (285, 46387), (299, 46414), (333, 46519), (339, 46543), (340, 46546), (347, 46564), (348, 46567), (366, 46618), (393, 46705), (402, 46741), (406, 46747), (412, 46762), (448, 46831),

Gene: Mattes_50 Start: 35673, Stop: 36476, Start Num: 94
Candidate Starts for Mattes_50:
(Start: 94 @35673 has 20 MA's), (119, 35712), (139, 35748), (155, 35787), (166, 35817), (182, 35856), (217, 35919), (220, 35922), (232, 35946), (235, 35949), (247, 35973), (256, 35991), (264, 36000),

(282, 36021), (339, 36177), (340, 36180), (360, 36228), (362, 36237), (368, 36264), (397, 36366), (409, 36399), (410, 36402), (414, 36411), (416, 36417), (432, 36450), (442, 36465),

Gene: Megiddo_34 Start: 28196, Stop: 29059, Start Num: 106
Candidate Starts for Megiddo_34:
(Start: 106 @28196 has 51 MA's), (148, 28277), (154, 28301), (158, 28310), (176, 28358), (191, 28382), (224, 28463), (230, 28478), (283, 28589), (347, 28772), (366, 28826), (402, 28955), (421, 28997), (448, 29045),

Gene: Mellie_43 Start: 33024, Stop: 33788, Start Num: 137
Candidate Starts for Mellie_43:
(36, 32739), (60, 32838), (97, 32949), (Start: 137 @33024 has 19 MA's), (175, 33123), (222, 33231), (229, 33246), (266, 33315), (316, 33411), (341, 33501), (349, 33519), (401, 33693),

Gene: MicyPS_67 Start: 44107, Stop: 43298, Start Num: 133
Candidate Starts for MicyPS_67:
(Start: 133 @44107 has 5 MA's), (152, 44056), (164, 44026), (176, 43993), (215, 43900), (218, 43894), (225, 43876), (340, 43600), (374, 43501), (398, 43405),

Gene: MilleniumForce_46 Start: 35851, Stop: 36717, Start Num: 104
Candidate Starts for MilleniumForce_46:
(Start: 104 @35851 has 64 MA's), (154, 35950), (158, 35959), (221, 36097), (236, 36130), (249, 36157), (270, 36205), (288, 36244), (289, 36247), (293, 36253), (299, 36262), (314, 36289), (320, 36313), (321, 36316), (368, 36463), (369, 36466), (376, 36490), (394, 36553), (415, 36610), (448, 36676), (449, 36679),

Gene: Min1_10 Start: 3743, Stop: 4495, Start Num: 161
Candidate Starts for Min1_10:
(140, 3686), (158, 3734), (161, 3743), (163, 3749), (171, 3773), (184, 3809), (210, 3881), (236, 3935), (315, 4118), (350, 4235), (384, 4346), (407, 4418), (427, 4466),

Gene: Minnie_50 Start: 36205, Stop: 37071, Start Num: 104
Candidate Starts for Minnie_50:
(Start: 104 @36205 has 64 MA's), (154, 36304), (158, 36313), (236, 36484), (249, 36511), (288, 36598), (289, 36601), (293, 36607), (299, 36616), (320, 36667), (321, 36670), (368, 36817), (369, 36820), (376, 36844), (394, 36907), (399, 36928), (410, 36955),

Gene: Misha28_44 Start: 33883, Stop: 34743, Start Num: 84
Candidate Starts for Misha28_44:
(70, 33844), (Start: 84 @33883 has 10 MA's), (126, 33967), (Start: 133 @33979 has 5 MA's), (135, 33985), (147, 34009), (160, 34048), (165, 34063), (238, 34213), (243, 34225), (252, 34246), (332, 34429), (375, 34558), (393, 34618), (409, 34666), (426, 34705),

Gene: MissRona_47 Start: 35196, Stop: 35957, Start Num: 137
Candidate Starts for MissRona_47:
(Start: 137 @35196 has 19 MA's), (146, 35211), (181, 35313), (195, 35346), (219, 35391), (222, 35400), (229, 35415), (266, 35484), (316, 35580), (341, 35670), (401, 35862),

Gene: MisterCuddles_47 Start: 35732, Stop: 36736, Start Num: 57
Candidate Starts for MisterCuddles_47:
(Start: 57 @35732 has 72 MA's), (Start: 132 @35921 has 1 MA's), (Start: 137 @35933 has 19 MA's), (162, 35999), (165, 36008), (177, 36044), (203, 36110), (206, 36122), (218, 36149), (228, 36173), (236, 36188), (246, 36209), (255, 36230), (261, 36242), (263, 36245), (301, 36329), (321, 36374),

(324, 36380), (333, 36410), (340, 36437), (347, 36455), (356, 36476), (366, 36509), (384, 36569), (393, 36596), (404, 36635), (412, 36653), (421, 36674), (424, 36683), (445, 36719), (451, 36728),

Gene: MooMoo_44 Start: 34391, Stop: 35257, Start Num: 84
Candidate Starts for MooMoo_44:
(Start: 84 @34391 has 10 MA's), (126, 34475), (Start: 133 @34487 has 5 MA's), (135, 34493), (147, 34517), (151, 34535), (168, 34580), (169, 34583), (183, 34619), (207, 34661), (236, 34715), (241, 34724), (243, 34730), (252, 34751), (284, 34811), (291, 34829), (344, 34970), (361, 35012), (381, 35087), (400, 35150), (413, 35183),

Gene: MortyNRick_52 Start: 37928, Stop: 38608, Start Num: 159
Candidate Starts for MortyNRick_52:
(Start: 131 @37859 has 11 MA's), (158, 37925), (Start: 159 @37928 has 1 MA's), (175, 37973), (197, 38024), (205, 38042), (229, 38093), (304, 38231), (330, 38309), (378, 38453), (411, 38546),

Gene: MulchExplorer_48 Start: 36117, Stop: 36983, Start Num: 104
Candidate Starts for MulchExplorer_48:
(Start: 104 @36117 has 64 MA's), (154, 36216), (158, 36225), (221, 36363), (236, 36396), (249, 36423), (270, 36471), (288, 36510), (289, 36513), (293, 36519), (299, 36528), (314, 36555), (320, 36579), (321, 36582), (368, 36729), (369, 36732), (376, 36756), (394, 36819), (399, 36840), (410, 36867), (451, 36948),

Gene: Murp_47 Start: 36766, Stop: 37527, Start Num: 137
Candidate Starts for Murp_47:
(97, 36691), (Start: 137 @36766 has 19 MA's), (146, 36781), (180, 36880), (187, 36892), (205, 36934), (219, 36961), (258, 37042), (266, 37054), (316, 37150), (341, 37240), (365, 37306), (401, 37432),

Gene: Mutaforma13_49 Start: 36153, Stop: 37019, Start Num: 104
Candidate Starts for Mutaforma13_49:
(Start: 104 @36153 has 64 MA's), (154, 36252), (158, 36261), (221, 36399), (236, 36432), (249, 36459), (270, 36507), (288, 36546), (289, 36549), (293, 36555), (299, 36564), (314, 36591), (320, 36615), (321, 36618), (368, 36765), (369, 36768), (376, 36792), (394, 36855), (399, 36876), (451, 36984),

Gene: Mwanjiwa_53 Start: 36107, Stop: 37108, Start Num: 57
Candidate Starts for Mwanjiwa_53:
(Start: 57 @36107 has 72 MA's), (120, 36275), (Start: 132 @36296 has 1 MA's), (Start: 137 @36308 has 19 MA's), (162, 36374), (165, 36383), (177, 36419), (203, 36485), (204, 36491), (206, 36497), (218, 36524), (233, 36560), (236, 36563), (246, 36584), (255, 36605), (261, 36617), (263, 36620), (301, 36701), (321, 36746), (324, 36752), (333, 36782), (340, 36809), (347, 36827), (356, 36848), (366, 36881), (372, 36899), (384, 36941), (404, 37007), (412, 37025), (421, 37046), (445, 37091),

Gene: Nazo_38 Start: 30066, Stop: 30869, Start Num: 114
Candidate Starts for Nazo_38:
(Start: 114 @30066 has 4 MA's), (Start: 159 @30168 has 1 MA's), (171, 30204), (266, 30396), (307, 30492), (335, 30576), (358, 30642), (360, 30645), (371, 30669), (385, 30723), (396, 30762), (403, 30783), (405, 30786), (437, 30855),

Gene: Necropolis_34 Start: 27936, Stop: 28802, Start Num: 106
Candidate Starts for Necropolis_34:
(Start: 106 @27936 has 51 MA's), (148, 28017), (154, 28041), (158, 28050), (176, 28098), (224, 28206), (230, 28221), (283, 28332), (347, 28515), (366, 28569), (402, 28698), (421, 28740), (448, 28788),

Gene: Neobush_48 Start: 35356, Stop: 36180, Start Num: 105
Candidate Starts for Neobush_48:
(Start: 94 @35344 has 20 MA's), (Start: 105 @35356 has 18 MA's), (153, 35458), (189, 35545), (276, 35716), (322, 35821), (353, 35917), (397, 36070), (410, 36106), (438, 36166),

Gene: NewHope4_49 Start: 35741, Stop: 36607, Start Num: 104
Candidate Starts for NewHope4_49:
(Start: 104 @35741 has 64 MA's), (154, 35840), (158, 35849), (221, 35987), (236, 36020), (249, 36047), (270, 36095), (288, 36134), (289, 36137), (293, 36143), (299, 36152), (314, 36179), (320, 36203), (321, 36206), (368, 36353), (369, 36356), (376, 36380), (394, 36443), (399, 36464), (410, 36491), (439, 36548), (451, 36572),

Gene: Nivrat_45 Start: 34995, Stop: 35999, Start Num: 57
Candidate Starts for Nivrat_45:
(29, 34839), (Start: 57 @34995 has 72 MA's), (Start: 137 @35196 has 19 MA's), (162, 35262), (165, 35271), (177, 35307), (203, 35373), (204, 35379), (206, 35385), (218, 35412), (233, 35448), (236, 35451), (246, 35472), (255, 35493), (261, 35505), (263, 35508), (301, 35592), (321, 35637), (324, 35643), (325, 35649), (333, 35673), (340, 35700), (347, 35718), (356, 35739), (366, 35772), (384, 35832), (393, 35859), (404, 35898), (412, 35916), (421, 35937), (445, 35982), (451, 35991),

Gene: ODay_62 Start: 38884, Stop: 39768, Start Num: 86
Candidate Starts for ODay_62:
(17, 38563), (19, 38569), (22, 38599), (31, 38647), (39, 38722), (40, 38728), (Start: 86 @38884 has 8 MA's), (141, 38986), (146, 38992), (414, 39697), (427, 39727), (437, 39748),

Gene: Ogopogo_48 Start: 34646, Stop: 35650, Start Num: 57
Candidate Starts for Ogopogo_48:
(Start: 57 @34646 has 72 MA's), (120, 34814), (Start: 132 @34835 has 1 MA's), (Start: 137 @34847 has 19 MA's), (162, 34913), (165, 34922), (177, 34958), (203, 35024), (218, 35063), (220, 35066), (228, 35087), (236, 35102), (246, 35123), (255, 35144), (261, 35156), (263, 35159), (301, 35243), (324, 35294), (325, 35300), (340, 35351), (347, 35369), (356, 35390), (366, 35423), (372, 35441), (384, 35483), (393, 35510), (412, 35567), (424, 35597), (445, 35633), (448, 35636),

Gene: Okabe_43 Start: 30988, Stop: 31992, Start Num: 57
Candidate Starts for Okabe_43:
(Start: 57 @30988 has 72 MA's), (120, 31156), (Start: 132 @31177 has 1 MA's), (Start: 137 @31189 has 19 MA's), (150, 31222), (156, 31237), (162, 31255), (165, 31264), (177, 31300), (195, 31348), (203, 31366), (206, 31378), (218, 31405), (228, 31429), (233, 31441), (236, 31444), (246, 31465), (255, 31486), (261, 31498), (263, 31501), (293, 31573), (301, 31585), (324, 31636), (340, 31693), (347, 31711), (356, 31732), (366, 31765), (372, 31783), (384, 31825), (404, 31891), (412, 31909), (421, 31930), (445, 31975), (451, 31984),

Gene: OlympiaSaint_47 Start: 35172, Stop: 36038, Start Num: 104
Candidate Starts for OlympiaSaint_47:
(Start: 104 @35172 has 64 MA's), (154, 35271), (158, 35280), (236, 35451), (249, 35478), (288, 35565), (289, 35568), (293, 35574), (299, 35583), (320, 35634), (321, 35637), (329, 35667), (368, 35784), (376, 35811), (394, 35874), (399, 35895),

Gene: Oregano_48 Start: 33939, Stop: 34688, Start Num: 131
Candidate Starts for Oregano_48:
(65, 33786), (107, 33894), (Start: 131 @33939 has 11 MA's), (146, 33969), (155, 33996), (158, 34005), (205, 34122), (219, 34149), (229, 34173), (238, 34188), (253, 34218), (302, 34308), (304, 34311),

(378, 34533),

Gene: OwlsT2W_45 Start: 35172, Stop: 36038, Start Num: 104
Candidate Starts for OwlsT2W_45:
(Start: 104 @35172 has 64 MA's), (154, 35271), (158, 35280), (236, 35451), (249, 35478), (288, 35565), (289, 35568), (293, 35574), (299, 35583), (320, 35634), (321, 35637), (368, 35784), (376, 35811), (394, 35874), (399, 35895),

Gene: P1201_08 Start: 2597, Stop: 3520, Start Num: 75
Candidate Starts for P1201_08:
(75, 2597), (77, 2600), (99, 2642), (Start: 125 @2690 has 1 MA's), (158, 2765), (171, 2804), (176, 2816), (203, 2882), (220, 2924), (236, 2957), (262, 3017), (325, 3185), (350, 3263), (388, 3398), (415, 3473), (432, 3509), (434, 3512),

Gene: PMC_42 Start: 34542, Stop: 35546, Start Num: 57
Candidate Starts for PMC_42:
(Start: 57 @34542 has 72 MA's), (Start: 132 @34731 has 1 MA's), (Start: 137 @34743 has 19 MA's), (162, 34809), (165, 34818), (177, 34854), (203, 34920), (206, 34932), (218, 34959), (228, 34983), (236, 34998), (246, 35019), (255, 35040), (261, 35052), (263, 35055), (301, 35139), (321, 35184), (324, 35190), (333, 35220), (340, 35247), (347, 35265), (356, 35286), (366, 35319), (384, 35379), (404, 35445), (412, 35463), (421, 35484), (424, 35493), (445, 35529), (451, 35538),

Gene: PantheRoc_46 Start: 35515, Stop: 36375, Start Num: 103
Candidate Starts for PantheRoc_46:
(53, 35362), (Start: 78 @35470 has 1 MA's), (Start: 96 @35503 has 7 MA's), (Start: 103 @35515 has 4 MA's), (158, 35629), (236, 35800), (262, 35854), (275, 35884), (286, 35902), (320, 35968), (342, 36043), (369, 36124), (415, 36268),

Gene: PeanutPie_34 Start: 27935, Stop: 28798, Start Num: 106
Candidate Starts for PeanutPie_34:
(Start: 106 @27935 has 51 MA's), (148, 28016), (154, 28040), (158, 28049), (176, 28097), (221, 28193), (224, 28202), (230, 28217), (283, 28328), (347, 28511), (366, 28565), (402, 28694), (421, 28736), (448, 28784),

Gene: Pepperoni_38 Start: 29759, Stop: 30508, Start Num: 131
Candidate Starts for Pepperoni_38:
(Start: 131 @29759 has 11 MA's), (144, 29786), (146, 29789), (Start: 159 @29828 has 1 MA's), (175, 29873), (197, 29924), (205, 29942), (229, 29993), (304, 30131), (323, 30182), (378, 30353),

Gene: Periwinkle_67 Start: 39705, Stop: 40481, Start Num: 105
Candidate Starts for Periwinkle_67:
(87, 39675), (Start: 105 @39705 has 18 MA's), (154, 39804), (188, 39891), (236, 39984), (279, 40083), (406, 40401), (415, 40422), (421, 40437), (429, 40455),

Gene: Phabba_184 Start: 96671, Stop: 95853, Start Num: 129
Candidate Starts for Phabba_184:
(Start: 129 @96671 has 1 MA's), (167, 96584), (212, 96479), (227, 96449), (230, 96440), (242, 96422), (253, 96398), (262, 96380), (277, 96347), (299, 96314), (301, 96311), (325, 96239), (340, 96182), (366, 96110), (378, 96056), (415, 95948), (417, 95942), (440, 95894), (443, 95885), (447, 95876),

Gene: Phabuloso_58 Start: 37489, Stop: 38328, Start Num: 111
Candidate Starts for Phabuloso_58:

(Start: 111 @37489 has 2 MA's), (124, 37516), (164, 37603), (227, 37732), (235, 37747), (254, 37792), (414, 38257), (427, 38287), (437, 38308),

Gene: Phalconet_46 Start: 34873, Stop: 35877, Start Num: 57
Candidate Starts for Phalconet_46:
(Start: 57 @34873 has 72 MA's), (120, 35041), (Start: 132 @35062 has 1 MA's), (Start: 137 @35074 has 19 MA's), (150, 35107), (156, 35122), (162, 35140), (165, 35149), (177, 35185), (195, 35233), (203, 35251), (206, 35263), (218, 35290), (228, 35314), (233, 35326), (236, 35329), (246, 35350), (255, 35371), (261, 35383), (263, 35386), (293, 35458), (301, 35470), (324, 35521), (340, 35578), (347, 35596), (356, 35617), (366, 35650), (372, 35668), (384, 35710), (404, 35776), (412, 35794), (421, 35815), (445, 35860), (451, 35869),

Gene: Phalm_34 Start: 28196, Stop: 29059, Start Num: 106
Candidate Starts for Phalm_34:
(Start: 106 @28196 has 51 MA's), (148, 28277), (154, 28301), (158, 28310), (176, 28358), (191, 28382), (224, 28463), (230, 28478), (283, 28589), (347, 28772), (366, 28826), (402, 28955), (421, 28997), (448, 29045),

Gene: Phasih_45 Start: 35085, Stop: 36089, Start Num: 57
Candidate Starts for Phasih_45:
(29, 34929), (Start: 57 @35085 has 72 MA's), (Start: 137 @35286 has 19 MA's), (162, 35352), (165, 35361), (177, 35397), (203, 35463), (206, 35475), (218, 35502), (228, 35526), (236, 35541), (246, 35562), (255, 35583), (261, 35595), (263, 35598), (301, 35682), (321, 35727), (324, 35733), (333, 35763), (340, 35790), (347, 35808), (356, 35829), (366, 35862), (384, 35922), (404, 35988), (412, 36006), (421, 36027), (424, 36036), (445, 36072), (451, 36081),

Gene: Phatniss_45 Start: 35050, Stop: 35916, Start Num: 104
Candidate Starts for Phatniss_45:
(Start: 104 @35050 has 64 MA's), (154, 35149), (158, 35158), (236, 35329), (249, 35356), (288, 35443), (289, 35446), (293, 35452), (299, 35461), (320, 35512), (321, 35515), (364, 35641), (368, 35662), (369, 35665), (376, 35689), (394, 35752), (415, 35809), (448, 35875), (449, 35878),

Gene: Phayonce_36 Start: 29962, Stop: 30771, Start Num: 114
Candidate Starts for Phayonce_36:
(Start: 114 @29962 has 4 MA's), (155, 30052), (157, 30058), (266, 30298), (307, 30394), (335, 30478), (358, 30544), (360, 30547), (371, 30571), (396, 30664), (403, 30685), (437, 30757),

Gene: Phegasus_34 Start: 27944, Stop: 28810, Start Num: 106
Candidate Starts for Phegasus_34:
(Start: 106 @27944 has 51 MA's), (148, 28025), (154, 28049), (158, 28058), (176, 28106), (224, 28214), (230, 28229), (283, 28340), (347, 28523), (366, 28577), (402, 28706), (421, 28748), (448, 28796),

Gene: PhesterPhotato_49 Start: 35828, Stop: 36832, Start Num: 57
Candidate Starts for PhesterPhotato_49:
(Start: 57 @35828 has 72 MA's), (120, 35996), (Start: 132 @36017 has 1 MA's), (Start: 137 @36029 has 19 MA's), (150, 36062), (156, 36077), (162, 36095), (165, 36104), (177, 36140), (195, 36188), (203, 36206), (206, 36218), (218, 36245), (228, 36269), (233, 36281), (236, 36284), (246, 36305), (255, 36326), (261, 36338), (263, 36341), (293, 36413), (301, 36425), (324, 36476), (340, 36533), (347, 36551), (356, 36572), (366, 36605), (372, 36623), (384, 36665), (404, 36731), (412, 36749), (421, 36770), (445, 36815), (451, 36824),

Gene: Philus_50 Start: 35558, Stop: 36361, Start Num: 94

Candidate Starts for Philus_50:
(Start: 94 @35558 has 20 MA's), (119, 35597), (139, 35633), (155, 35672), (166, 35702), (182, 35741), (217, 35804), (220, 35807), (232, 35831), (235, 35834), (247, 35858), (256, 35876), (264, 35885), (282, 35906), (339, 36062), (340, 36065), (360, 36113), (362, 36122), (368, 36149), (397, 36251), (409, 36284), (410, 36287), (414, 36296), (416, 36302), (432, 36335), (442, 36350),

Gene: Phineas_34 Start: 28307, Stop: 29173, Start Num: 106
Candidate Starts for Phineas_34:
(Start: 106 @28307 has 51 MA's), (148, 28388), (154, 28412), (158, 28421), (176, 28469), (224, 28577), (230, 28592), (283, 28703), (347, 28886), (366, 28940), (402, 29069), (421, 29111), (448, 29159),

Gene: Phistory_58 Start: 36964, Stop: 37761, Start Num: 130
Candidate Starts for Phistory_58:
(Start: 130 @36964 has 1 MA's), (146, 36991), (175, 37075), (191, 37111), (199, 37132), (201, 37138), (218, 37192), (229, 37219), (266, 37288), (300, 37357), (316, 37390), (388, 37633), (401, 37675), (419, 37720),

Gene: PhlipPhlop_46 Start: 36187, Stop: 37053, Start Num: 104
Candidate Starts for PhlipPhlop_46:
(Start: 104 @36187 has 64 MA's), (154, 36286), (158, 36295), (236, 36466), (249, 36493), (288, 36580), (289, 36583), (293, 36589), (299, 36598), (320, 36649), (321, 36652), (368, 36799), (376, 36826), (394, 36889), (399, 36910),

Gene: PhorbesPhlower_43 Start: 29950, Stop: 30699, Start Num: 131
Candidate Starts for PhorbesPhlower_43:
(Start: 131 @29950 has 11 MA's), (144, 29977), (146, 29980), (Start: 159 @30019 has 1 MA's), (175, 30064), (197, 30115), (205, 30133), (229, 30184), (304, 30322), (323, 30373), (378, 30544),

Gene: PhriskyACE_44 Start: 34290, Stop: 35057, Start Num: 131
Candidate Starts for PhriskyACE_44:
(Start: 131 @34290 has 11 MA's), (144, 34317), (146, 34320), (155, 34347), (175, 34404), (181, 34422), (222, 34512), (229, 34527), (236, 34539), (292, 34650), (335, 34764), (341, 34788), (349, 34806), (357, 34827), (358, 34830), (360, 34833), (371, 34857), (384, 34908), (385, 34911),

Gene: Pickett_41 Start: 29647, Stop: 30483, Start Num: 94
Candidate Starts for Pickett_41:
(Start: 94 @29647 has 20 MA's), (Start: 105 @29659 has 18 MA's), (153, 29761), (189, 29848), (276, 30019), (322, 30124), (353, 30220), (397, 30373), (410, 30409), (438, 30469),

Gene: Piper2020_46 Start: 34599, Stop: 35459, Start Num: 84
Candidate Starts for Piper2020_46:
(70, 34560), (Start: 84 @34599 has 10 MA's), (126, 34683), (Start: 133 @34695 has 5 MA's), (135, 34701), (147, 34725), (160, 34764), (165, 34779), (238, 34929), (243, 34941), (252, 34962), (332, 35145), (375, 35274), (393, 35334), (409, 35382), (426, 35421),

Gene: Pippy_45 Start: 33164, Stop: 33943, Start Num: 121
Candidate Starts for Pippy_45:
(Start: 108 @33134 has 2 MA's), (Start: 121 @33164 has 15 MA's), (Start: 142 @33188 has 2 MA's), (144, 33191), (157, 33227), (158, 33230), (175, 33275), (222, 33383), (229, 33398), (266, 33467), (288, 33515), (336, 33632), (353, 33683), (380, 33779), (414, 33884), (416, 33890), (436, 33932), (442, 33938),

Gene: Plumbus_47 Start: 34797, Stop: 35663, Start Num: 104
Candidate Starts for Plumbus_47:
(Start: 104 @34797 has 64 MA's), (154, 34896), (158, 34905), (236, 35076), (249, 35103), (288, 35190), (289, 35193), (293, 35199), (299, 35208), (320, 35259), (321, 35262), (364, 35388), (368, 35409), (369, 35412), (376, 35436), (394, 35499), (415, 35556), (448, 35622), (449, 35625),

Gene: Poenanya_47 Start: 36071, Stop: 37075, Start Num: 57
Candidate Starts for Poenanya_47:
(Start: 57 @36071 has 72 MA's), (Start: 132 @36260 has 1 MA's), (Start: 137 @36272 has 19 MA's), (162, 36338), (165, 36347), (177, 36383), (203, 36449), (206, 36461), (218, 36488), (228, 36512), (236, 36527), (246, 36548), (255, 36569), (261, 36581), (263, 36584), (301, 36668), (321, 36713), (324, 36719), (333, 36749), (340, 36776), (347, 36794), (356, 36815), (366, 36848), (384, 36908), (393, 36935), (404, 36974), (412, 36992), (421, 37013), (424, 37022), (445, 37058), (451, 37067),

Gene: Polkaroo_34 Start: 27953, Stop: 28816, Start Num: 106
Candidate Starts for Polkaroo_34:
(Start: 106 @27953 has 51 MA's), (148, 28034), (154, 28058), (158, 28067), (176, 28115), (191, 28139), (224, 28220), (230, 28235), (283, 28346), (347, 28529), (366, 28583), (402, 28712), (421, 28754), (448, 28802),

Gene: Polly_45 Start: 34805, Stop: 35629, Start Num: 105
Candidate Starts for Polly_45:
(Start: 94 @34793 has 20 MA's), (Start: 105 @34805 has 18 MA's), (153, 34907), (189, 34994), (276, 35165), (322, 35270), (353, 35366), (397, 35519), (410, 35555), (438, 35615),

Gene: Pollywog_46 Start: 35249, Stop: 36253, Start Num: 57
Candidate Starts for Pollywog_46:
(Start: 57 @35249 has 72 MA's), (Start: 132 @35438 has 1 MA's), (Start: 137 @35450 has 19 MA's), (162, 35516), (165, 35525), (177, 35561), (203, 35627), (206, 35639), (218, 35666), (228, 35690), (236, 35705), (246, 35726), (255, 35747), (261, 35759), (263, 35762), (301, 35846), (321, 35891), (324, 35897), (333, 35927), (340, 35954), (347, 35972), (356, 35993), (366, 36026), (384, 36086), (404, 36152), (412, 36170), (421, 36191), (424, 36200), (445, 36236), (451, 36245),

Gene: Polo2Bam_54 Start: 35595, Stop: 36461, Start Num: 104
Candidate Starts for Polo2Bam_54:
(Start: 104 @35595 has 64 MA's), (154, 35694), (158, 35703), (221, 35841), (236, 35874), (249, 35901), (270, 35949), (288, 35988), (289, 35991), (293, 35997), (299, 36006), (314, 36033), (320, 36057), (321, 36060), (368, 36207), (369, 36210), (376, 36234), (394, 36297), (399, 36318), (410, 36345), (439, 36402), (451, 36426),

Gene: Poochiewood_60 Start: 42683, Stop: 43501, Start Num: 76
Candidate Starts for Poochiewood_60:
(Start: 76 @42683 has 9 MA's), (90, 42710), (112, 42737), (118, 42749), (154, 42809), (181, 42884), (188, 42896), (231, 42986), (236, 42992), (289, 43097), (315, 43127), (354, 43232), (392, 43355), (418, 43430), (425, 43445),

Gene: PopTart_43 Start: 34554, Stop: 35558, Start Num: 57
Candidate Starts for PopTart_43:
(Start: 57 @34554 has 72 MA's), (120, 34722), (Start: 132 @34743 has 1 MA's), (Start: 137 @34755 has 19 MA's), (150, 34788), (156, 34803), (162, 34821), (165, 34830), (177, 34866), (195, 34914), (203, 34932), (206, 34944), (218, 34971), (228, 34995), (233, 35007), (236, 35010), (246, 35031), (255, 35052), (261, 35064), (263, 35067), (293, 35139), (301, 35151), (321, 35196), (324, 35202), (333, 35232), (340, 35259), (347, 35277), (349, 35280), (356, 35298), (366, 35331), (372, 35349),

(384, 35391), (404, 35457), (412, 35475), (421, 35496), (445, 35541),

Gene: Posh_50 Start: 37122, Stop: 37994, Start Num: 96
Candidate Starts for Posh_50:
(51, 36978), (Start: 96 @37122 has 7 MA's), (Start: 103 @37134 has 4 MA's), (158, 37248), (236, 37419), (262, 37473), (342, 37662), (369, 37743), (415, 37887),

Gene: Purky_41 Start: 30689, Stop: 31480, Start Num: 114
Candidate Starts for Purky_41:
(Start: 114 @30689 has 4 MA's), (Start: 159 @30788 has 1 MA's), (171, 30824), (219, 30923), (266, 31016), (335, 31196), (349, 31238), (358, 31262), (360, 31265), (371, 31289), (384, 31340), (385, 31343), (396, 31382), (403, 31403), (428, 31454),

Gene: Pygmy_36 Start: 29778, Stop: 30644, Start Num: 106
Candidate Starts for Pygmy_36:
(Start: 106 @29778 has 51 MA's), (148, 29859), (154, 29883), (158, 29892), (167, 29919), (176, 29940), (224, 30048), (230, 30063), (283, 30174), (347, 30357), (366, 30411), (421, 30582), (448, 30630),

Gene: Pytheas_48 Start: 37975, Stop: 38838, Start Num: 103
Candidate Starts for Pytheas_48:
(Start: 103 @37975 has 4 MA's), (158, 38092), (188, 38170), (236, 38263), (262, 38317), (321, 38434), (369, 38587), (394, 38674), (415, 38731),

Gene: QueenHazel_32 Start: 27811, Stop: 28680, Start Num: 106
Candidate Starts for QueenHazel_32:
(Start: 106 @27811 has 51 MA's), (154, 27919), (158, 27928), (176, 27976), (224, 28084), (230, 28099), (283, 28210), (347, 28393), (366, 28447), (402, 28576), (421, 28618), (448, 28666),

Gene: QuickMath_47 Start: 36341, Stop: 37207, Start Num: 104
Candidate Starts for QuickMath_47:
(Start: 104 @36341 has 64 MA's), (154, 36440), (158, 36449), (221, 36587), (236, 36620), (249, 36647), (270, 36695), (288, 36734), (289, 36737), (293, 36743), (299, 36752), (314, 36779), (320, 36803), (321, 36806), (368, 36953), (369, 36956), (376, 36980), (394, 37043), (399, 37064), (410, 37091), (451, 37172),

Gene: Quico_55 Start: 35977, Stop: 36771, Start Num: 121
Candidate Starts for Quico_55:
(Start: 121 @35977 has 15 MA's), (144, 36019), (157, 36055), (158, 36058), (171, 36094), (198, 36154), (222, 36211), (229, 36226), (266, 36295), (288, 36343), (336, 36460), (353, 36511), (380, 36607), (414, 36712), (416, 36718), (436, 36760), (442, 36766),

Gene: REQ2_43 Start: 33255, Stop: 34112, Start Num: 86
Candidate Starts for REQ2_43:
(Start: 86 @33255 has 8 MA's), (124, 33318), (127, 33324), (145, 33360), (219, 33540), (238, 33576), (266, 33633), (292, 33699), (332, 33783), (409, 34029), (410, 34032),

Gene: RedBird_44 Start: 34882, Stop: 35886, Start Num: 57
Candidate Starts for RedBird_44:
(Start: 57 @34882 has 72 MA's), (Start: 132 @35071 has 1 MA's), (Start: 137 @35083 has 19 MA's), (162, 35149), (165, 35158), (177, 35194), (203, 35260), (206, 35272), (218, 35299), (228, 35323), (236, 35338), (246, 35359), (255, 35380), (261, 35392), (263, 35395), (301, 35479), (321, 35524), (324, 35530), (333, 35560), (340, 35587), (347, 35605), (356, 35626), (366, 35659), (384, 35719),

(393, 35746), (404, 35785), (412, 35803), (421, 35824), (424, 35833), (445, 35869), (451, 35878),

Gene: Rialto_51 Start: 37369, Stop: 38235, Start Num: 104
Candidate Starts for Rialto_51:
(Start: 104 @37369 has 64 MA's), (118, 37396), (154, 37468), (158, 37477), (236, 37648), (270, 37723), (288, 37762), (289, 37765), (293, 37771), (299, 37780), (320, 37831), (321, 37834), (364, 37960), (368, 37981), (369, 37984), (376, 38008), (394, 38071), (415, 38128), (448, 38194), (449, 38197),

Gene: Rockne_45 Start: 34542, Stop: 35546, Start Num: 57
Candidate Starts for Rockne_45:
(Start: 57 @34542 has 72 MA's), (Start: 132 @34731 has 1 MA's), (Start: 137 @34743 has 19 MA's), (162, 34809), (165, 34818), (177, 34854), (203, 34920), (206, 34932), (218, 34959), (228, 34983), (236, 34998), (246, 35019), (255, 35040), (261, 35052), (263, 35055), (301, 35139), (321, 35184), (324, 35190), (333, 35220), (340, 35247), (347, 35265), (356, 35286), (366, 35319), (384, 35379), (404, 35445), (412, 35463), (421, 35484), (424, 35493), (445, 35529), (451, 35538),

Gene: RockyHorror_48 Start: 34943, Stop: 35947, Start Num: 57
Candidate Starts for RockyHorror_48:
(29, 34787), (Start: 57 @34943 has 72 MA's), (Start: 137 @35144 has 19 MA's), (162, 35210), (165, 35219), (177, 35255), (203, 35321), (206, 35333), (218, 35360), (228, 35384), (236, 35399), (246, 35420), (255, 35441), (261, 35453), (263, 35456), (301, 35540), (321, 35585), (324, 35591), (333, 35621), (340, 35648), (347, 35666), (356, 35687), (366, 35720), (384, 35780), (404, 35846), (412, 35864), (421, 35885), (424, 35894), (445, 35930), (451, 35939),

Gene: Rose5_60 Start: 42695, Stop: 43513, Start Num: 76
Candidate Starts for Rose5_60:
(Start: 76 @42695 has 9 MA's), (90, 42722), (112, 42749), (118, 42761), (154, 42821), (181, 42896), (188, 42908), (231, 42998), (236, 43004), (289, 43109), (315, 43139), (354, 43244), (392, 43367), (418, 43442), (425, 43457),

Gene: Royals2015_48 Start: 35193, Stop: 36059, Start Num: 104
Candidate Starts for Royals2015_48:
(Start: 104 @35193 has 64 MA's), (154, 35292), (158, 35301), (236, 35472), (249, 35499), (288, 35586), (289, 35589), (293, 35595), (299, 35604), (320, 35655), (321, 35658), (329, 35688), (368, 35805), (376, 35832), (394, 35895), (399, 35916),

Gene: Ruby_46 Start: 35733, Stop: 36737, Start Num: 57
Candidate Starts for Ruby_46:
(Start: 57 @35733 has 72 MA's), (Start: 132 @35922 has 1 MA's), (Start: 137 @35934 has 19 MA's), (162, 36000), (165, 36009), (177, 36045), (203, 36111), (206, 36123), (218, 36150), (228, 36174), (236, 36189), (246, 36210), (255, 36231), (261, 36243), (263, 36246), (301, 36330), (321, 36375), (324, 36381), (333, 36411), (340, 36438), (347, 36456), (356, 36477), (366, 36510), (384, 36570), (393, 36597), (404, 36636), (412, 36654), (421, 36675), (424, 36684), (445, 36720), (451, 36729),

Gene: Ruthy_46 Start: 36193, Stop: 37002, Start Num: 96
Candidate Starts for Ruthy_46:
(Start: 96 @36193 has 7 MA's), (113, 36223), (154, 36301), (157, 36307), (162, 36322), (318, 36655), (352, 36757), (387, 36871), (421, 36958),

Gene: Saal_49 Start: 35536, Stop: 36339, Start Num: 94
Candidate Starts for Saal_49:

(Start: 94 @35536 has 20 MA's), (119, 35575), (139, 35611), (155, 35650), (166, 35680), (182, 35719), (217, 35782), (220, 35785), (232, 35809), (235, 35812), (247, 35836), (256, 35854), (264, 35863), (282, 35884), (339, 36040), (340, 36043), (360, 36091), (362, 36100), (368, 36127), (397, 36229), (409, 36262), (410, 36265), (414, 36274), (416, 36280), (432, 36313), (442, 36328),

Gene: Sabbb_52 Start: 36611, Stop: 37489, Start Num: 104
Candidate Starts for Sabbb_52:
(34, 36371), (Start: 104 @36611 has 64 MA's), (154, 36710), (158, 36719), (236, 36890), (249, 36917), (262, 36944), (274, 36977), (287, 37001), (299, 37025), (329, 37118), (368, 37235), (376, 37262), (394, 37325), (399, 37346),

Gene: Samba_44 Start: 35414, Stop: 36175, Start Num: 137
Candidate Starts for Samba_44:
(60, 35228), (97, 35339), (Start: 137 @35414 has 19 MA's), (146, 35429), (167, 35492), (195, 35564), (219, 35609), (222, 35618), (229, 35633), (266, 35702), (316, 35798), (341, 35888), (401, 36080),

Gene: Sandalphon_49 Start: 36106, Stop: 36972, Start Num: 104
Candidate Starts for Sandalphon_49:
(Start: 104 @36106 has 64 MA's), (154, 36205), (158, 36214), (236, 36385), (249, 36412), (288, 36499), (289, 36502), (293, 36508), (299, 36517), (311, 36538), (320, 36568), (321, 36571), (329, 36601), (368, 36718), (369, 36721), (376, 36745), (394, 36808), (399, 36829), (451, 36937),

Gene: Sarma624_43 Start: 30882, Stop: 31748, Start Num: 104
Candidate Starts for Sarma624_43:
(Start: 104 @30882 has 64 MA's), (118, 30909), (154, 30981), (158, 30990), (236, 31161), (270, 31236), (288, 31275), (289, 31278), (293, 31284), (299, 31293), (320, 31344), (321, 31347), (364, 31473), (368, 31494), (369, 31497), (376, 31521), (394, 31584), (415, 31641), (448, 31707), (449, 31710),

Gene: SassyB_43 Start: 34554, Stop: 35558, Start Num: 57
Candidate Starts for SassyB_43:
(Start: 57 @34554 has 72 MA's), (120, 34722), (Start: 132 @34743 has 1 MA's), (Start: 137 @34755 has 19 MA's), (150, 34788), (156, 34803), (162, 34821), (165, 34830), (177, 34866), (195, 34914), (203, 34932), (206, 34944), (218, 34971), (228, 34995), (233, 35007), (236, 35010), (246, 35031), (255, 35052), (261, 35064), (263, 35067), (293, 35139), (301, 35151), (321, 35196), (324, 35202), (333, 35232), (340, 35259), (347, 35277), (349, 35280), (356, 35298), (366, 35331), (372, 35349), (384, 35391), (404, 35457), (412, 35475), (421, 35496), (445, 35541),

Gene: Sbash_45 Start: 36382, Stop: 37266, Start Num: 95
Candidate Starts for Sbash_45:
(93, 36379), (Start: 95 @36382 has 1 MA's), (117, 36427), (126, 36442), (151, 36502), (153, 36505), (160, 36523), (187, 36595), (199, 36622), (213, 36649), (236, 36694), (243, 36709), (258, 36742), (291, 36811), (319, 36880), (343, 36958), (372, 37045), (375, 37060),

Gene: SeaLumen_52 Start: 35595, Stop: 36461, Start Num: 104
Candidate Starts for SeaLumen_52:
(Start: 104 @35595 has 64 MA's), (154, 35694), (158, 35703), (221, 35841), (236, 35874), (249, 35901), (270, 35949), (288, 35988), (289, 35991), (293, 35997), (299, 36006), (314, 36033), (320, 36057), (321, 36060), (368, 36207), (369, 36210), (376, 36234), (394, 36297), (399, 36318), (410, 36345), (439, 36402), (451, 36426),

Gene: Seagreen_48 Start: 35285, Stop: 36286, Start Num: 57
Candidate Starts for Seagreen_48:

(Start: 57 @35285 has 72 MA's), (120, 35453), (Start: 132 @35474 has 1 MA's), (Start: 137 @35486 has 19 MA's), (150, 35519), (162, 35552), (165, 35561), (177, 35597), (203, 35663), (218, 35702), (220, 35705), (233, 35738), (236, 35741), (246, 35762), (255, 35783), (261, 35795), (263, 35798), (301, 35879), (321, 35924), (324, 35930), (333, 35960), (340, 35987), (347, 36005), (349, 36008), (356, 36026), (366, 36059), (372, 36077), (384, 36119), (404, 36185), (412, 36203), (421, 36224), (445, 36269),

Gene: Sejanus_49 Start: 44587, Stop: 45456, Start Num: 104
Candidate Starts for Sejanus_49:
(100, 44581), (Start: 104 @44587 has 64 MA's), (154, 44689), (158, 44698), (236, 44869), (249, 44896), (293, 44992), (299, 45001), (314, 45028), (321, 45055), (342, 45127), (368, 45202), (376, 45229),

Gene: Shipwreck_36 Start: 29753, Stop: 30619, Start Num: 106
Candidate Starts for Shipwreck_36:
(Start: 106 @29753 has 51 MA's), (148, 29834), (154, 29858), (158, 29867), (167, 29894), (176, 29915), (224, 30023), (230, 30038), (283, 30149), (347, 30332), (366, 30386), (421, 30557), (448, 30605),

Gene: ShroomBoi_47 Start: 35208, Stop: 36212, Start Num: 57
Candidate Starts for ShroomBoi_47:
(Start: 57 @35208 has 72 MA's), (120, 35376), (Start: 132 @35397 has 1 MA's), (Start: 137 @35409 has 19 MA's), (150, 35442), (156, 35457), (162, 35475), (165, 35484), (177, 35520), (195, 35568), (203, 35586), (206, 35598), (218, 35625), (228, 35649), (233, 35661), (236, 35664), (246, 35685), (255, 35706), (261, 35718), (263, 35721), (301, 35805), (321, 35850), (324, 35856), (333, 35886), (340, 35913), (347, 35931), (356, 35952), (366, 35985), (384, 36045), (412, 36129), (421, 36150), (424, 36159), (445, 36195), (451, 36204),

Gene: SiSi_47 Start: 35103, Stop: 36107, Start Num: 57
Candidate Starts for SiSi_47:
(Start: 57 @35103 has 72 MA's), (Start: 132 @35292 has 1 MA's), (Start: 137 @35304 has 19 MA's), (162, 35370), (165, 35379), (177, 35415), (203, 35481), (206, 35493), (218, 35520), (228, 35544), (236, 35559), (246, 35580), (255, 35601), (261, 35613), (263, 35616), (301, 35700), (321, 35745), (324, 35751), (333, 35781), (340, 35808), (347, 35826), (356, 35847), (366, 35880), (384, 35940), (393, 35967), (404, 36006), (412, 36024), (421, 36045), (424, 36054), (445, 36090), (451, 36099),

Gene: Sidious_48 Start: 36674, Stop: 37510, Start Num: 105
Candidate Starts for Sidious_48:
(Start: 94 @36662 has 20 MA's), (Start: 105 @36674 has 18 MA's), (153, 36776), (189, 36863), (201, 36893), (360, 37268), (409, 37439), (410, 37442),

Gene: Silverleaf_60 Start: 42430, Stop: 43248, Start Num: 76
Candidate Starts for Silverleaf_60:
(Start: 76 @42430 has 9 MA's), (90, 42457), (112, 42484), (118, 42496), (154, 42556), (181, 42631), (188, 42643), (231, 42733), (236, 42739), (289, 42844), (315, 42874), (354, 42979), (392, 43102), (418, 43177), (425, 43192),

Gene: SimranZ1_47 Start: 34553, Stop: 35554, Start Num: 57
Candidate Starts for SimranZ1_47:
(Start: 57 @34553 has 72 MA's), (Start: 132 @34742 has 1 MA's), (Start: 137 @34754 has 19 MA's), (162, 34820), (165, 34829), (177, 34865), (203, 34931), (206, 34943), (218, 34970), (228, 34994), (236, 35009), (246, 35030), (255, 35051), (261, 35063), (263, 35066), (301, 35147), (321, 35192), (324, 35198), (325, 35204), (333, 35228), (340, 35255), (356, 35294), (366, 35327), (372, 35345),

(384, 35387), (393, 35414), (404, 35453), (412, 35471), (421, 35492), (424, 35501), (445, 35537), (451, 35546),

Gene: Slim_48 Start: 36252, Stop: 37256, Start Num: 57
Candidate Starts for Slim_48:
(Start: 57 @36252 has 72 MA's), (Start: 132 @36441 has 1 MA's), (Start: 137 @36453 has 19 MA's), (162, 36519), (165, 36528), (177, 36564), (203, 36630), (206, 36642), (218, 36669), (228, 36693), (236, 36708), (246, 36729), (255, 36750), (261, 36762), (263, 36765), (301, 36849), (321, 36894), (324, 36900), (333, 36930), (340, 36957), (347, 36975), (356, 36996), (366, 37029), (372, 37047), (384, 37089), (393, 37116), (404, 37155), (412, 37173), (421, 37194), (424, 37203), (445, 37239), (451, 37248),

Gene: SoilAssassin_43 Start: 32482, Stop: 33318, Start Num: 94
Candidate Starts for SoilAssassin_43:
(Start: 94 @32482 has 20 MA's), (Start: 105 @32494 has 18 MA's), (153, 32596), (189, 32683), (276, 32854), (322, 32959), (353, 33055), (397, 33208), (410, 33244), (438, 33304),

Gene: Soilmate_51 Start: 38490, Stop: 39251, Start Num: 137
Candidate Starts for Soilmate_51:
(97, 38415), (Start: 137 @38490 has 19 MA's), (146, 38505), (158, 38541), (180, 38604), (187, 38616), (205, 38658), (219, 38685), (266, 38778), (316, 38874), (341, 38964), (401, 39156),

Gene: Sonah_34 Start: 27925, Stop: 28791, Start Num: 106
Candidate Starts for Sonah_34:
(Start: 106 @27925 has 51 MA's), (148, 28006), (154, 28030), (158, 28039), (167, 28066), (176, 28087), (224, 28195), (230, 28210), (283, 28321), (347, 28504), (366, 28558), (402, 28687), (421, 28729), (448, 28777),

Gene: Soul22_51 Start: 35297, Stop: 36163, Start Num: 104
Candidate Starts for Soul22_51:
(Start: 104 @35297 has 64 MA's), (154, 35396), (158, 35405), (221, 35543), (236, 35576), (249, 35603), (270, 35651), (288, 35690), (289, 35693), (293, 35699), (299, 35708), (314, 35735), (320, 35759), (321, 35762), (368, 35909), (369, 35912), (376, 35936), (394, 35999), (399, 36020), (410, 36047), (439, 36104), (451, 36128),

Gene: Sparkdehlily_50 Start: 35945, Stop: 36811, Start Num: 104
Candidate Starts for Sparkdehlily_50:
(Start: 104 @35945 has 64 MA's), (154, 36044), (158, 36053), (236, 36224), (249, 36251), (288, 36338), (289, 36341), (293, 36347), (299, 36356), (320, 36407), (321, 36410), (368, 36557), (376, 36584), (394, 36647), (399, 36668),

Gene: Spartacus_47 Start: 34966, Stop: 35832, Start Num: 104
Candidate Starts for Spartacus_47:
(Start: 104 @34966 has 64 MA's), (154, 35065), (158, 35074), (236, 35245), (249, 35272), (288, 35359), (289, 35362), (293, 35368), (299, 35377), (320, 35428), (321, 35431), (368, 35578), (369, 35581), (376, 35605), (394, 35668), (415, 35725), (448, 35791), (449, 35794),

Gene: Spartan_37 Start: 33069, Stop: 33911, Start Num: 120
Candidate Starts for Spartan_37:
(120, 33069), (196, 33240), (223, 33300), (236, 33321), (241, 33330), (244, 33339), (269, 33393), (271, 33399), (292, 33444), (308, 33474), (310, 33477), (324, 33519), (346, 33594), (351, 33606), (353, 33612), (363, 33639),

Gene: Sprinklemunch_54 Start: 39274, Stop: 40071, Start Num: 122
Candidate Starts for Sprinklemunch_54:
(Start: 122 @39274 has 1 MA's), (Start: 129 @39286 has 1 MA's), (171, 39388), (219, 39499), (248, 39568), (292, 39664), (323, 39736), (328, 39757), (335, 39778), (341, 39802), (349, 39820), (358, 39844), (360, 39847), (371, 39871), (384, 39922), (385, 39925), (390, 39940), (396, 39964),

Gene: Squirty_40 Start: 32337, Stop: 33116, Start Num: 121
Candidate Starts for Squirty_40:
(Start: 108 @32307 has 2 MA's), (Start: 121 @32337 has 15 MA's), (Start: 142 @32361 has 2 MA's), (144, 32364), (157, 32400), (158, 32403), (175, 32448), (222, 32556), (229, 32571), (266, 32640), (288, 32688), (336, 32805), (353, 32856), (380, 32952), (414, 33057), (416, 33063), (436, 33105), (442, 33111),

Gene: Stap_46 Start: 34844, Stop: 35848, Start Num: 57
Candidate Starts for Stap_46:
(Start: 57 @34844 has 72 MA's), (Start: 132 @35033 has 1 MA's), (Start: 137 @35045 has 19 MA's), (162, 35111), (165, 35120), (177, 35156), (203, 35222), (206, 35234), (218, 35261), (228, 35285), (236, 35300), (246, 35321), (255, 35342), (261, 35354), (263, 35357), (301, 35441), (321, 35486), (324, 35492), (333, 35522), (340, 35549), (347, 35567), (356, 35588), (366, 35621), (384, 35681), (393, 35708), (404, 35747), (412, 35765), (421, 35786), (424, 35795), (445, 35831), (451, 35840),

Gene: Starcevich_47 Start: 35737, Stop: 36741, Start Num: 57
Candidate Starts for Starcevich_47:
(Start: 57 @35737 has 72 MA's), (Start: 132 @35926 has 1 MA's), (Start: 137 @35938 has 19 MA's), (162, 36004), (165, 36013), (177, 36049), (203, 36115), (206, 36127), (218, 36154), (228, 36178), (236, 36193), (246, 36214), (255, 36235), (261, 36247), (263, 36250), (301, 36334), (321, 36379), (324, 36385), (333, 36415), (340, 36442), (347, 36460), (356, 36481), (366, 36514), (384, 36574), (393, 36601), (404, 36640), (412, 36658), (421, 36679), (424, 36688), (445, 36724), (451, 36733),

Gene: StevieRay_34 Start: 27895, Stop: 28758, Start Num: 106
Candidate Starts for StevieRay_34:
(Start: 106 @27895 has 51 MA's), (154, 28000), (158, 28009), (176, 28057), (191, 28081), (224, 28162), (230, 28177), (283, 28288), (347, 28471), (366, 28525), (402, 28654), (421, 28696), (448, 28744),

Gene: StressBall_34 Start: 28196, Stop: 29059, Start Num: 106
Candidate Starts for StressBall_34:
(Start: 106 @28196 has 51 MA's), (148, 28277), (154, 28301), (158, 28310), (176, 28358), (191, 28382), (224, 28463), (230, 28478), (283, 28589), (347, 28772), (366, 28826), (402, 28955), (421, 28997), (448, 29045),

Gene: Stuck_49 Start: 38539, Stop: 39417, Start Num: 86
Candidate Starts for Stuck_49:
(Start: 86 @38539 has 8 MA's), (141, 38635), (209, 38788), (220, 38812), (222, 38818), (284, 38953), (367, 39190), (427, 39376),

Gene: SuperGrey_48 Start: 36177, Stop: 37181, Start Num: 57
Candidate Starts for SuperGrey_48:
(Start: 57 @36177 has 72 MA's), (120, 36345), (Start: 132 @36366 has 1 MA's), (Start: 137 @36378 has 19 MA's), (150, 36411), (156, 36426), (162, 36444), (165, 36453), (177, 36489), (195, 36537), (203, 36555), (206, 36567), (218, 36594), (228, 36618), (233, 36630), (236, 36633), (246, 36654), (255, 36675), (261, 36687), (263, 36690), (293, 36762), (301, 36774), (324, 36825), (325, 36831), (340, 36882), (347, 36900), (356, 36921), (366, 36954), (372, 36972), (384, 37014), (393, 37041),

(412, 37098), (424, 37128), (445, 37164), (448, 37167),

Gene: Suscepit_48 Start: 35363, Stop: 36187, Start Num: 105
Candidate Starts for Suscepit_48:
(Start: 94 @35351 has 20 MA's), (Start: 105 @35363 has 18 MA's), (153, 35465), (189, 35552), (276, 35723), (322, 35828), (353, 35924), (397, 36077), (410, 36113), (438, 36173),

Gene: SushiChef_45 Start: 36276, Stop: 37100, Start Num: 105
Candidate Starts for SushiChef_45:
(16, 35919), (20, 35952), (46, 36120), (Start: 105 @36276 has 18 MA's), (153, 36378), (189, 36465), (322, 36741), (353, 36837), (409, 37023), (410, 37026), (438, 37086),

Gene: SwagPigglett_52 Start: 36591, Stop: 37367, Start Num: 94
Candidate Starts for SwagPigglett_52:
(Start: 94 @36591 has 20 MA's), (119, 36630), (139, 36666), (155, 36705), (166, 36735), (182, 36774), (217, 36810), (220, 36813), (232, 36837), (235, 36840), (247, 36864), (256, 36882), (264, 36891), (282, 36912), (339, 37068), (340, 37071), (360, 37119), (362, 37128), (368, 37155), (397, 37257), (409, 37290), (410, 37293), (414, 37302), (416, 37308), (432, 37341), (442, 37356),

Gene: TChen_47 Start: 36066, Stop: 36932, Start Num: 84
Candidate Starts for TChen_47:
(Start: 84 @36066 has 10 MA's), (126, 36150), (Start: 133 @36162 has 5 MA's), (135, 36168), (147, 36192), (151, 36210), (168, 36255), (169, 36258), (183, 36294), (207, 36336), (236, 36390), (241, 36399), (243, 36405), (252, 36426), (284, 36486), (291, 36504), (344, 36645), (361, 36687), (381, 36762), (400, 36825), (413, 36858),

Gene: TDanisky_50 Start: 35945, Stop: 36811, Start Num: 104
Candidate Starts for TDanisky_50:
(Start: 104 @35945 has 64 MA's), (154, 36044), (158, 36053), (236, 36224), (249, 36251), (288, 36338), (289, 36341), (293, 36347), (299, 36356), (320, 36407), (321, 36410), (368, 36557), (376, 36584), (394, 36647), (399, 36668),

Gene: Tayonia_48 Start: 35362, Stop: 36186, Start Num: 105
Candidate Starts for Tayonia_48:
(Start: 94 @35350 has 20 MA's), (Start: 105 @35362 has 18 MA's), (153, 35464), (189, 35551), (276, 35722), (322, 35827), (353, 35923), (397, 36076), (410, 36112), (438, 36172),

Gene: Tchotchke_49 Start: 34846, Stop: 35706, Start Num: 104
Candidate Starts for Tchotchke_49:
(Start: 104 @34846 has 64 MA's), (154, 34942), (186, 35026), (202, 35059), (214, 35092), (236, 35137), (249, 35164), (270, 35212), (317, 35284), (320, 35302), (321, 35305), (368, 35452), (376, 35479), (394, 35542), (399, 35563),

Gene: Techage_34 Start: 27962, Stop: 28828, Start Num: 106
Candidate Starts for Techage_34:
(Start: 106 @27962 has 51 MA's), (148, 28043), (154, 28067), (158, 28076), (176, 28124), (224, 28232), (230, 28247), (236, 28256), (283, 28358), (347, 28541), (366, 28595), (402, 28724), (421, 28766), (448, 28814),

Gene: ThankyouJordi_47 Start: 37192, Stop: 38031, Start Num: 101
Candidate Starts for ThankyouJordi_47:
(67, 37096), (Start: 101 @37192 has 2 MA's), (107, 37204), (Start: 122 @37237 has 1 MA's), (Start: 129 @37249 has 1 MA's), (171, 37351), (174, 37360), (219, 37462), (248, 37531), (292, 37624), (335,

37738), (341, 37762), (349, 37780), (357, 37801), (358, 37804), (360, 37807), (371, 37831), (384, 37882), (385, 37885), (403, 37945),

Gene: Thespis_34 Start: 27932, Stop: 28798, Start Num: 106
Candidate Starts for Thespis_34:
(Start: 106 @27932 has 51 MA's), (148, 28013), (154, 28037), (158, 28046), (167, 28073), (176, 28094), (224, 28202), (230, 28217), (283, 28328), (347, 28511), (366, 28565), (402, 28694), (421, 28736), (448, 28784),

Gene: ThulaThula_38 Start: 31478, Stop: 32350, Start Num: 104
Candidate Starts for ThulaThula_38:
(Start: 104 @31478 has 64 MA's), (154, 31580), (158, 31589), (236, 31760), (262, 31814), (293, 31886), (299, 31895), (314, 31922), (320, 31946), (321, 31949), (368, 32096), (376, 32123),

Gene: TootsiePop_44 Start: 33883, Stop: 34743, Start Num: 84
Candidate Starts for TootsiePop_44:
(70, 33844), (Start: 84 @33883 has 10 MA's), (126, 33967), (Start: 133 @33979 has 5 MA's), (135, 33985), (147, 34009), (160, 34048), (165, 34063), (238, 34213), (243, 34225), (252, 34246), (332, 34429), (375, 34558), (393, 34618), (409, 34666), (426, 34705),

Gene: Tootsieroll_49 Start: 35136, Stop: 36002, Start Num: 104
Candidate Starts for Tootsieroll_49:
(Start: 104 @35136 has 64 MA's), (154, 35235), (158, 35244), (236, 35415), (249, 35442), (288, 35529), (289, 35532), (293, 35538), (299, 35547), (320, 35598), (321, 35601), (329, 35631), (368, 35748), (376, 35775), (394, 35838), (399, 35859),

Gene: Topiatin_52 Start: 36612, Stop: 37616, Start Num: 57
Candidate Starts for Topiatin_52:
(Start: 57 @36612 has 72 MA's), (Start: 132 @36801 has 1 MA's), (Start: 137 @36813 has 19 MA's), (162, 36879), (165, 36888), (177, 36924), (203, 36990), (206, 37002), (218, 37029), (228, 37053), (236, 37068), (246, 37089), (255, 37110), (261, 37122), (263, 37125), (301, 37209), (321, 37254), (324, 37260), (333, 37290), (340, 37317), (347, 37335), (356, 37356), (366, 37389), (384, 37449), (404, 37515), (412, 37533), (421, 37554), (424, 37563), (445, 37599), (451, 37608),

Gene: Toron_46 Start: 35382, Stop: 36251, Start Num: 83
Candidate Starts for Toron_46:
(83, 35382), (100, 35412), (126, 35466), (Start: 133 @35478 has 5 MA's), (135, 35484), (147, 35508), (162, 35553), (243, 35724), (284, 35805), (313, 35865), (344, 35964), (361, 36006), (381, 36081), (400, 36144), (413, 36177),

Gene: Tortellini_40 Start: 34462, Stop: 35259, Start Num: 121
Candidate Starts for Tortellini_40:
(Start: 121 @34462 has 15 MA's), (154, 34528), (168, 34567), (179, 34597), (197, 34636), (226, 34699), (227, 34702), (241, 34726), (242, 34729), (253, 34753), (262, 34771), (268, 34780), (277, 34804), (289, 34825), (366, 35017), (389, 35104), (429, 35209), (430, 35212),

Gene: Totinger_47 Start: 34879, Stop: 35883, Start Num: 57
Candidate Starts for Totinger_47:
(Start: 57 @34879 has 72 MA's), (Start: 132 @35068 has 1 MA's), (Start: 137 @35080 has 19 MA's), (162, 35146), (165, 35155), (177, 35191), (203, 35257), (206, 35269), (218, 35296), (228, 35320), (236, 35335), (246, 35356), (255, 35377), (261, 35389), (263, 35392), (301, 35476), (321, 35521), (324, 35527), (333, 35557), (340, 35584), (347, 35602), (356, 35623), (366, 35656), (372, 35674), (384, 35716), (393, 35743), (404, 35782), (412, 35800), (421, 35821), (424, 35830), (445, 35866),

(451, 35875),

Gene: Trumpet_48 Start: 35363, Stop: 36187, Start Num: 105
Candidate Starts for Trumpet_48:
(Start: 94 @35351 has 20 MA's), (Start: 105 @35363 has 18 MA's), (153, 35465), (189, 35552), (276, 35723), (322, 35828), (353, 35924), (397, 36077), (410, 36113), (438, 36173),

Gene: Tweety_47 Start: 35615, Stop: 36619, Start Num: 57
Candidate Starts for Tweety_47:
(Start: 57 @35615 has 72 MA's), (Start: 132 @35804 has 1 MA's), (Start: 137 @35816 has 19 MA's), (162, 35882), (165, 35891), (177, 35927), (203, 35993), (206, 36005), (218, 36032), (228, 36056), (236, 36071), (246, 36092), (255, 36113), (261, 36125), (263, 36128), (301, 36212), (321, 36257), (324, 36263), (333, 36293), (340, 36320), (347, 36338), (356, 36359), (366, 36392), (384, 36452), (393, 36479), (404, 36518), (412, 36536), (421, 36557), (424, 36566), (445, 36602), (451, 36611),

Gene: Tyson_60 Start: 42697, Stop: 43515, Start Num: 76
Candidate Starts for Tyson_60:
(Start: 76 @42697 has 9 MA's), (90, 42724), (112, 42751), (118, 42763), (154, 42823), (181, 42898), (188, 42910), (231, 43000), (236, 43006), (289, 43111), (315, 43141), (354, 43246), (392, 43369), (418, 43444), (425, 43459),

Gene: UncleRicky_47 Start: 35876, Stop: 36742, Start Num: 104
Candidate Starts for UncleRicky_47:
(Start: 104 @35876 has 64 MA's), (154, 35975), (158, 35984), (236, 36155), (249, 36182), (288, 36269), (289, 36272), (293, 36278), (299, 36287), (320, 36338), (321, 36341), (329, 36371), (368, 36488), (376, 36515), (394, 36578), (399, 36599),

Gene: Utz_39 Start: 34104, Stop: 34865, Start Num: 137
Candidate Starts for Utz_39:
(60, 33918), (97, 34029), (Start: 137 @34104 has 19 MA's), (146, 34119), (167, 34182), (195, 34254), (219, 34299), (222, 34308), (229, 34323), (266, 34392), (316, 34488), (341, 34578), (401, 34770),

Gene: Velveteen_41 Start: 30882, Stop: 31748, Start Num: 104
Candidate Starts for Velveteen_41:
(Start: 104 @30882 has 64 MA's), (118, 30909), (154, 30981), (158, 30990), (236, 31161), (270, 31236), (288, 31275), (289, 31278), (293, 31284), (299, 31293), (320, 31344), (321, 31347), (364, 31473), (368, 31494), (369, 31497), (376, 31521), (394, 31584), (415, 31641), (448, 31707), (449, 31710),

Gene: Venti_34 Start: 27939, Stop: 28805, Start Num: 106
Candidate Starts for Venti_34:
(Start: 106 @27939 has 51 MA's), (148, 28020), (154, 28044), (158, 28053), (176, 28101), (224, 28209), (230, 28224), (283, 28335), (347, 28518), (366, 28572), (402, 28701), (421, 28743), (448, 28791),

Gene: Veteran_45 Start: 34747, Stop: 35751, Start Num: 57
Candidate Starts for Veteran_45:
(Start: 57 @34747 has 72 MA's), (Start: 132 @34936 has 1 MA's), (Start: 137 @34948 has 19 MA's), (162, 35014), (165, 35023), (177, 35059), (203, 35125), (206, 35137), (218, 35164), (228, 35188), (236, 35203), (246, 35224), (255, 35245), (261, 35257), (263, 35260), (301, 35344), (321, 35389), (324, 35395), (333, 35425), (340, 35452), (347, 35470), (356, 35491), (366, 35524), (384, 35584), (393, 35611), (404, 35650), (412, 35668), (421, 35689), (424, 35698), (445, 35734), (451, 35743),

Gene: Vidya_34 Start: 27972, Stop: 28838, Start Num: 106
Candidate Starts for Vidya_34:
(Start: 106 @27972 has 51 MA's), (148, 28053), (154, 28077), (158, 28086), (176, 28134), (224, 28242), (230, 28257), (283, 28368), (347, 28551), (366, 28605), (402, 28734), (421, 28776), (448, 28824),

Gene: Violac_49 Start: 36179, Stop: 37045, Start Num: 104
Candidate Starts for Violac_49:
(Start: 104 @36179 has 64 MA's), (154, 36278), (158, 36287), (221, 36425), (236, 36458), (249, 36485), (270, 36533), (288, 36572), (289, 36575), (293, 36581), (299, 36590), (314, 36617), (320, 36641), (321, 36644), (368, 36791), (369, 36794), (376, 36818), (394, 36881), (415, 36938), (448, 37004), (449, 37007),

Gene: Vivum_50 Start: 35865, Stop: 36869, Start Num: 57
Candidate Starts for Vivum_50:
(Start: 57 @35865 has 72 MA's), (Start: 132 @36054 has 1 MA's), (Start: 137 @36066 has 19 MA's), (162, 36132), (165, 36141), (177, 36177), (203, 36243), (206, 36255), (218, 36282), (228, 36306), (236, 36321), (246, 36342), (255, 36363), (261, 36375), (263, 36378), (301, 36462), (321, 36507), (324, 36513), (333, 36543), (340, 36570), (347, 36588), (356, 36609), (366, 36642), (384, 36702), (393, 36729), (404, 36768), (412, 36786), (421, 36807), (424, 36816), (445, 36852), (451, 36861),

Gene: Wachhund_49 Start: 35066, Stop: 35932, Start Num: 104
Candidate Starts for Wachhund_49:
(Start: 104 @35066 has 64 MA's), (154, 35165), (158, 35174), (221, 35312), (236, 35345), (249, 35372), (270, 35420), (288, 35459), (289, 35462), (293, 35468), (299, 35477), (314, 35504), (320, 35528), (321, 35531), (368, 35678), (369, 35681), (376, 35705), (394, 35768), (399, 35789), (410, 35816), (439, 35873),

Gene: Wee_50 Start: 36114, Stop: 37118, Start Num: 57
Candidate Starts for Wee_50:
(Start: 57 @36114 has 72 MA's), (Start: 132 @36303 has 1 MA's), (Start: 137 @36315 has 19 MA's), (162, 36381), (165, 36390), (177, 36426), (203, 36492), (206, 36504), (218, 36531), (228, 36555), (236, 36570), (246, 36591), (255, 36612), (261, 36624), (263, 36627), (301, 36711), (321, 36756), (324, 36762), (333, 36792), (340, 36819), (347, 36837), (356, 36858), (366, 36891), (384, 36951), (393, 36978), (404, 37017), (412, 37035), (421, 37056), (424, 37065), (445, 37101), (451, 37110),

Gene: WelcomeAyanna_47 Start: 37339, Stop: 38178, Start Num: 101
Candidate Starts for WelcomeAyanna_47:
(67, 37243), (Start: 101 @37339 has 2 MA's), (107, 37351), (Start: 122 @37384 has 1 MA's), (Start: 129 @37396 has 1 MA's), (171, 37498), (174, 37507), (219, 37609), (248, 37678), (292, 37771), (335, 37885), (341, 37909), (349, 37927), (357, 37948), (358, 37951), (360, 37954), (371, 37978), (384, 38029), (385, 38032), (403, 38092),

Gene: Whatsapiecost_45 Start: 34328, Stop: 35194, Start Num: 104
Candidate Starts for Whatsapiecost_45:
(Start: 104 @34328 has 64 MA's), (154, 34427), (158, 34436), (221, 34574), (236, 34607), (249, 34634), (270, 34682), (288, 34721), (289, 34724), (293, 34730), (299, 34739), (314, 34766), (320, 34790), (321, 34793), (368, 34940), (369, 34943), (376, 34967), (394, 35030), (399, 35051), (410, 35078), (439, 35135), (451, 35159),

Gene: Whitney_56 Start: 38733, Stop: 39512, Start Num: 123
Candidate Starts for Whitney_56:

(63, 38580), (Start: 76 @38643 has 9 MA's), (Start: 123 @38733 has 10 MA's), (151, 38784), (238, 38973), (244, 38988), (298, 39102), (353, 39246), (379, 39339), (409, 39435),

Gene: WillSterrel_47 Start: 36082, Stop: 36948, Start Num: 104
Candidate Starts for WillSterrel_47:
(Start: 104 @36082 has 64 MA's), (154, 36181), (158, 36190), (236, 36361), (249, 36388), (288, 36475), (289, 36478), (293, 36484), (299, 36493), (320, 36544), (321, 36547), (368, 36694), (369, 36697), (376, 36721), (394, 36784), (415, 36841), (448, 36907), (449, 36910),

Gene: Willsammy_33 Start: 27679, Stop: 28542, Start Num: 106
Candidate Starts for Willsammy_33:
(Start: 106 @27679 has 51 MA's), (148, 27760), (154, 27784), (158, 27793), (176, 27841), (191, 27865), (224, 27946), (230, 27961), (283, 28072), (347, 28255), (366, 28309), (402, 28438), (421, 28480), (448, 28528),

Gene: WinkNick_49 Start: 34309, Stop: 35058, Start Num: 131
Candidate Starts for WinkNick_49:
(2, 33670), (4, 33724), (5, 33757), (7, 33796), (11, 33817), (13, 33850), (14, 33862), (30, 33985), (32, 34006), (64, 34153), (Start: 131 @34309 has 11 MA's), (146, 34339), (155, 34366), (158, 34375), (205, 34492), (219, 34519), (229, 34543), (238, 34558), (253, 34588), (302, 34678), (304, 34681), (378, 34903),

Gene: Wisp_42 Start: 34155, Stop: 34916, Start Num: 137
Candidate Starts for Wisp_42:
(44, 33915), (60, 33969), (97, 34080), (Start: 137 @34155 has 19 MA's), (146, 34170), (180, 34269), (187, 34281), (205, 34323), (219, 34350), (266, 34443), (316, 34539), (341, 34629), (401, 34821), (419, 34866),

Gene: Wocket_45 Start: 33305, Stop: 34066, Start Num: 137
Candidate Starts for Wocket_45:
(55, 33104), (97, 33230), (Start: 137 @33305 has 19 MA's), (146, 33320), (180, 33419), (187, 33431), (205, 33473), (219, 33500), (258, 33581), (266, 33593), (316, 33689), (341, 33779), (365, 33845), (401, 33971), (419, 34016),

Gene: Wrigley_52 Start: 36935, Stop: 37699, Start Num: 131
Candidate Starts for Wrigley_52:
(Start: 131 @36935 has 11 MA's), (144, 36962), (146, 36965), (158, 37001), (180, 37064), (187, 37076), (206, 37118), (219, 37145), (266, 37238), (292, 37292), (335, 37406), (341, 37430), (349, 37448), (357, 37469), (358, 37472), (360, 37475), (371, 37499), (384, 37550), (385, 37553), (403, 37613),

Gene: Wyatt2_61 Start: 42695, Stop: 43513, Start Num: 76
Candidate Starts for Wyatt2_61:
(Start: 76 @42695 has 9 MA's), (90, 42722), (112, 42749), (118, 42761), (154, 42821), (181, 42896), (188, 42908), (231, 42998), (236, 43004), (289, 43109), (315, 43139), (354, 43244), (392, 43367), (418, 43442), (425, 43457),

Gene: Xavia_42 Start: 35045, Stop: 35842, Start Num: 121
Candidate Starts for Xavia_42:
(Start: 121 @35045 has 15 MA's), (154, 35111), (168, 35150), (179, 35180), (197, 35219), (226, 35282), (227, 35285), (241, 35309), (242, 35312), (253, 35336), (262, 35354), (268, 35363), (277, 35387), (289, 35408), (366, 35600), (389, 35687), (429, 35792), (430, 35795),

Gene: Xula_31 Start: 27335, Stop: 28204, Start Num: 106
Candidate Starts for Xula_31:
(Start: 106 @27335 has 51 MA's), (154, 27443), (158, 27452), (176, 27500), (224, 27608), (230, 27623), (283, 27734), (347, 27917), (366, 27971), (402, 28100), (421, 28142), (448, 28190),

Gene: Yeet412_43 Start: 32483, Stop: 33319, Start Num: 94
Candidate Starts for Yeet412_43:
(Start: 94 @32483 has 20 MA's), (Start: 105 @32495 has 18 MA's), (153, 32597), (189, 32684), (276, 32855), (322, 32960), (353, 33056), (397, 33209), (410, 33245), (438, 33305),

Gene: Yorick_45 Start: 35055, Stop: 35921, Start Num: 104
Candidate Starts for Yorick_45:
(Start: 104 @35055 has 64 MA's), (154, 35154), (158, 35163), (236, 35334), (249, 35361), (288, 35448), (289, 35451), (293, 35457), (299, 35466), (320, 35517), (321, 35520), (364, 35646), (368, 35667), (369, 35670), (376, 35694), (394, 35757), (415, 35814), (448, 35880), (449, 35883),

Gene: Yoshi_60 Start: 36844, Stop: 38034, Start Num: 57
Candidate Starts for Yoshi_60:
(Start: 57 @36844 has 72 MA's), (Start: 132 @37033 has 1 MA's), (Start: 137 @37045 has 19 MA's), (150, 37078), (156, 37093), (162, 37111), (165, 37120), (177, 37156), (195, 37204), (203, 37222), (206, 37234), (218, 37261), (228, 37285), (233, 37297), (236, 37300), (246, 37321), (255, 37342), (261, 37354), (263, 37357), (293, 37426), (301, 37438), (321, 37483), (324, 37489), (325, 37495), (333, 37519), (340, 37546), (347, 37564), (356, 37585), (366, 37618), (372, 37636), (384, 37678), (393, 37705), (404, 37744), (412, 37762), (421, 37783), (424, 37792), (441, 37819), (452, 37876), (453, 38017),

Gene: YungMoney_53 Start: 42952, Stop: 43722, Start Num: 132
Candidate Starts for YungMoney_53:
(Start: 132 @42952 has 1 MA's), (Start: 137 @42964 has 19 MA's), (146, 42976), (175, 43057), (216, 43147), (221, 43159), (230, 43180), (236, 43189), (262, 43249), (293, 43321), (309, 43342), (324, 43369), (358, 43465), (373, 43516), (377, 43537), (384, 43564), (388, 43579), (435, 43699),

Gene: Zameen_48 Start: 35362, Stop: 36186, Start Num: 105
Candidate Starts for Zameen_48:
(Start: 94 @35350 has 20 MA's), (Start: 105 @35362 has 18 MA's), (153, 35464), (189, 35551), (276, 35722), (322, 35827), (353, 35923), (397, 36076), (410, 36112), (438, 36172),

Gene: Zapner_59 Start: 36227, Stop: 37108, Start Num: 86
Candidate Starts for Zapner_59:
(Start: 86 @36227 has 8 MA's), (141, 36323), (161, 36368), (222, 36509), (284, 36644), (355, 36839), (367, 36881), (442, 37097),

Gene: Zerg_46 Start: 35052, Stop: 36056, Start Num: 57
Candidate Starts for Zerg_46:
(29, 34896), (Start: 57 @35052 has 72 MA's), (Start: 137 @35253 has 19 MA's), (162, 35319), (165, 35328), (177, 35364), (203, 35430), (206, 35442), (218, 35469), (228, 35493), (236, 35508), (246, 35529), (255, 35550), (261, 35562), (263, 35565), (301, 35649), (321, 35694), (324, 35700), (333, 35730), (340, 35757), (347, 35775), (356, 35796), (366, 35829), (384, 35889), (404, 35955), (412, 35973), (421, 35994), (424, 36003), (445, 36039), (451, 36048),

Gene: ZiggyZoo_46 Start: 35375, Stop: 36136, Start Num: 137
Candidate Starts for ZiggyZoo_46:

(36, 35090), (60, 35189), (Start: 137 @35375 has 19 MA's), (146, 35390), (180, 35489), (187, 35501), (205, 35543), (219, 35570), (266, 35663), (316, 35759), (341, 35849), (401, 36041),

Gene: Zilizebeth_34 Start: 27971, Stop: 28837, Start Num: 106
Candidate Starts for Zilizebeth_34:
(Start: 106 @27971 has 51 MA's), (148, 28052), (154, 28076), (158, 28085), (176, 28133), (224, 28241), (230, 28256), (283, 28367), (347, 28550), (366, 28604), (402, 28733), (421, 28775), (448, 28823),

Gene: Zirinka_45 Start: 35970, Stop: 36806, Start Num: 94
Candidate Starts for Zirinka_45:
(Start: 94 @35970 has 20 MA's), (Start: 105 @35982 has 18 MA's), (153, 36084), (189, 36171), (276, 36342), (322, 36447), (353, 36543), (397, 36696), (410, 36732), (438, 36792),

Gene: Zizzle_51 Start: 36006, Stop: 36785, Start Num: 121
Candidate Starts for Zizzle_51:
(Start: 108 @35976 has 2 MA's), (Start: 121 @36006 has 15 MA's), (Start: 142 @36030 has 2 MA's), (144, 36033), (157, 36069), (158, 36072), (175, 36117), (222, 36225), (229, 36240), (266, 36309), (288, 36357), (336, 36474), (353, 36525), (380, 36621), (414, 36726), (416, 36732), (436, 36774), (442, 36780),

Gene: Zodiariah_46 Start: 37518, Stop: 38399, Start Num: 86
Candidate Starts for Zodiariah_46:
(82, 37506), (Start: 86 @37518 has 8 MA's), (141, 37620), (149, 37629), (172, 37698), (222, 37800), (273, 37911), (398, 38289), (425, 38355), (437, 38379),