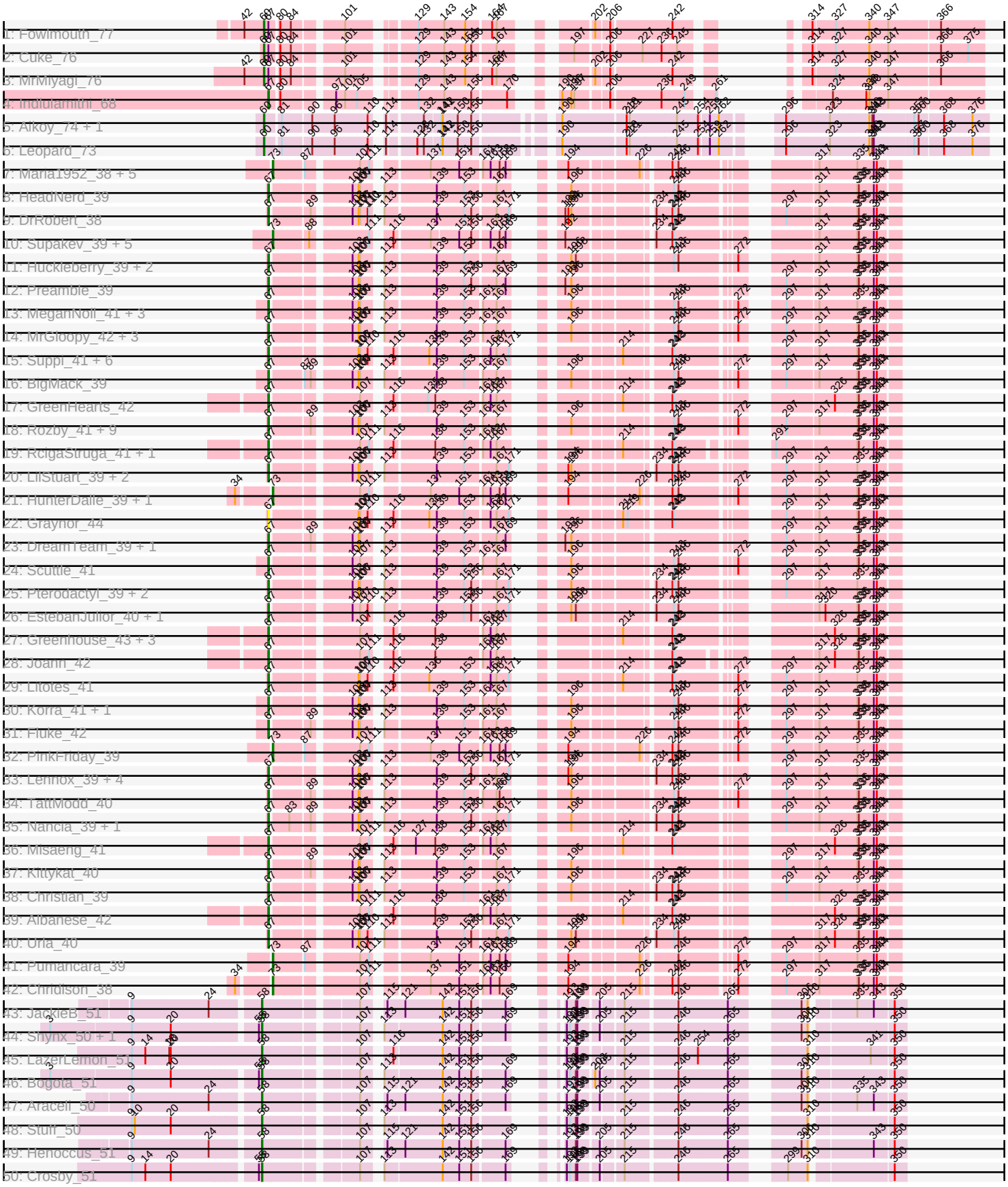
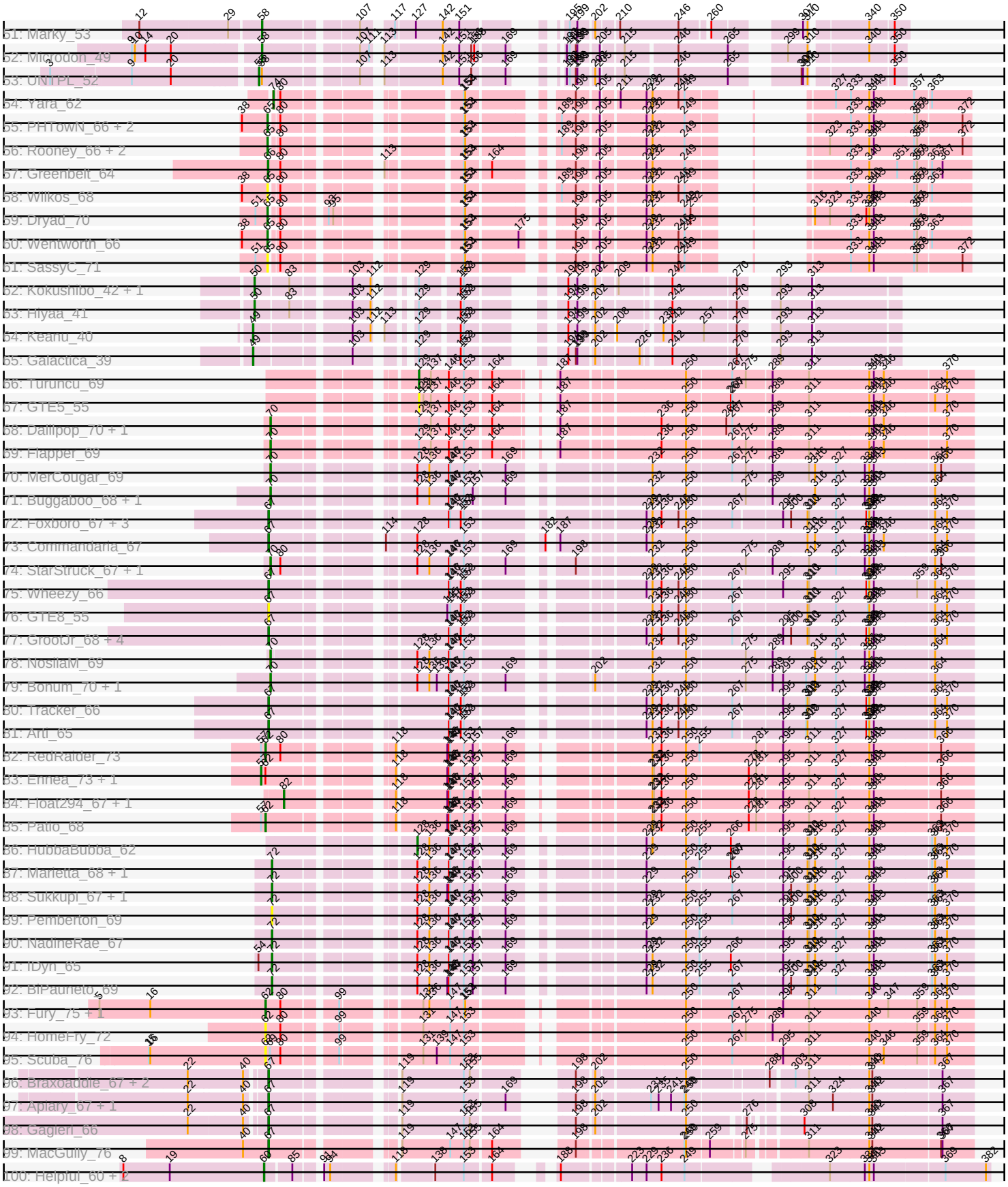
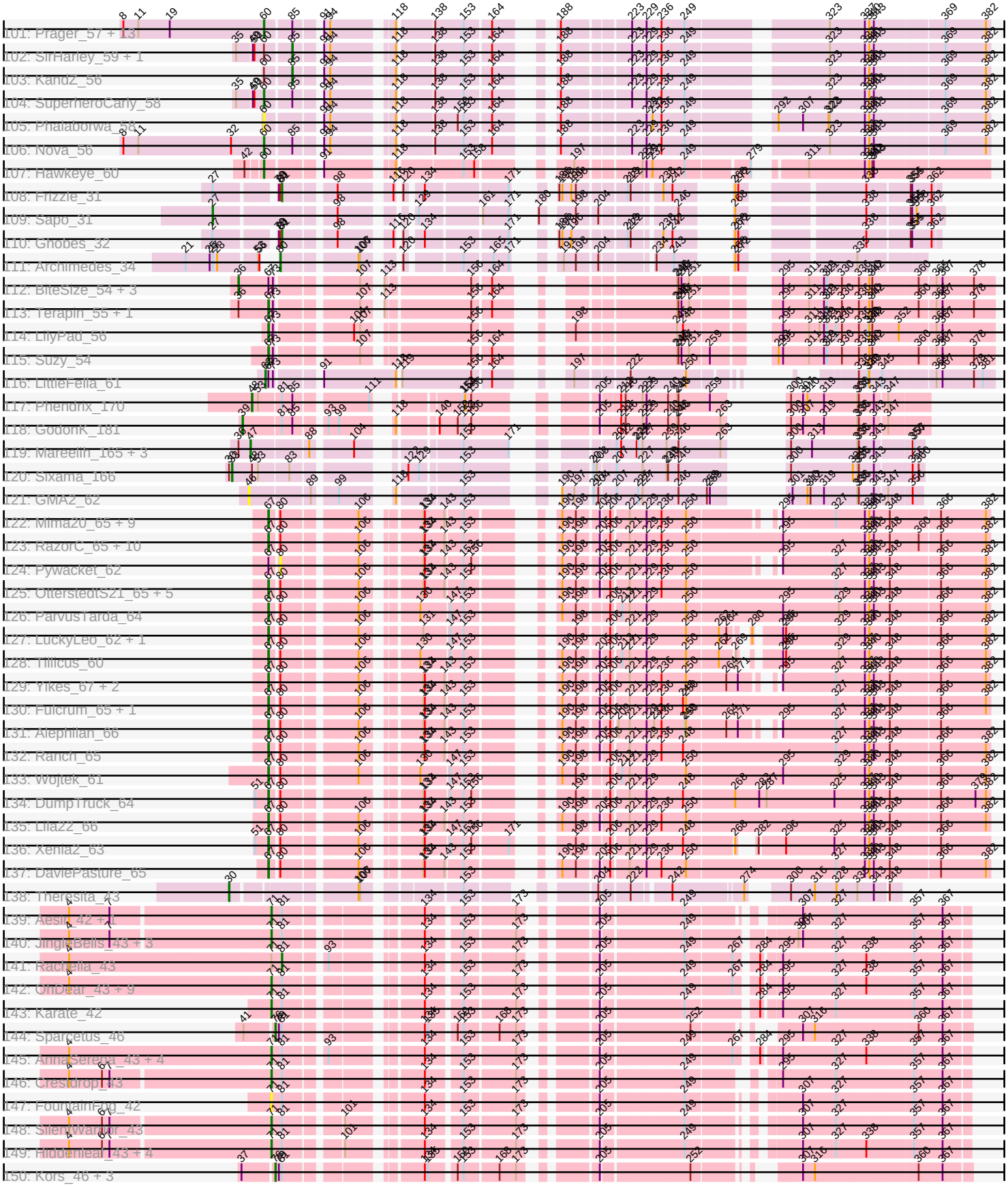
Pham 296137


1: Fowlmouth_77
2: Cuke_76
3: MrMiyagi_76
4: Indulamithi_68
5: Alkoy_74 + 1
6: Leopard_73
7: Maria1952_38 + 5
8: HeadNerd_39
9: DrRobert_38
10: Supakev_39 + 5
11: Huckleberry_39 + 2
12: Preamble_39
13: MeganNoll_41 + 3
14: MrGloopy_42 + 3
15: Suppi_41 + 6
16: BigMack_39
17: GreenHearts_42
18: Rozby_41 + 9
19: RcigaStruga_41 + 1
20: LilStuart_39 + 2
21: HunterDalle_39 + 1
22: Graynor_44
23: DreamTeam_39 + 1
24: Scuttle_41
25: Pterodactyl_39 + 2
26: EstebanJulior_40 + 1
27: Greenhouse_43 + 3
28: Joann_42
29: Litotes_41
30: Korra_41 + 1
31: Fluke_42
32: PinkFriday_39
33: Lennox_39 + 4
34: TattModd_40
35: Nancia_39 + 1
36: Misaeng_41
37: Kittykat_40
38: Christian_39
39: Albanese_42
40: Orla_40
41: Pumancara_39
42: Chrudson_38
43: JackieB_51
44: Shynx_50 + 1
45: LazerLemon_51
46: Bogota_51
47: Aracelf_50
48: Stuff_50
49: Henoccus_51
50: Crosby_51

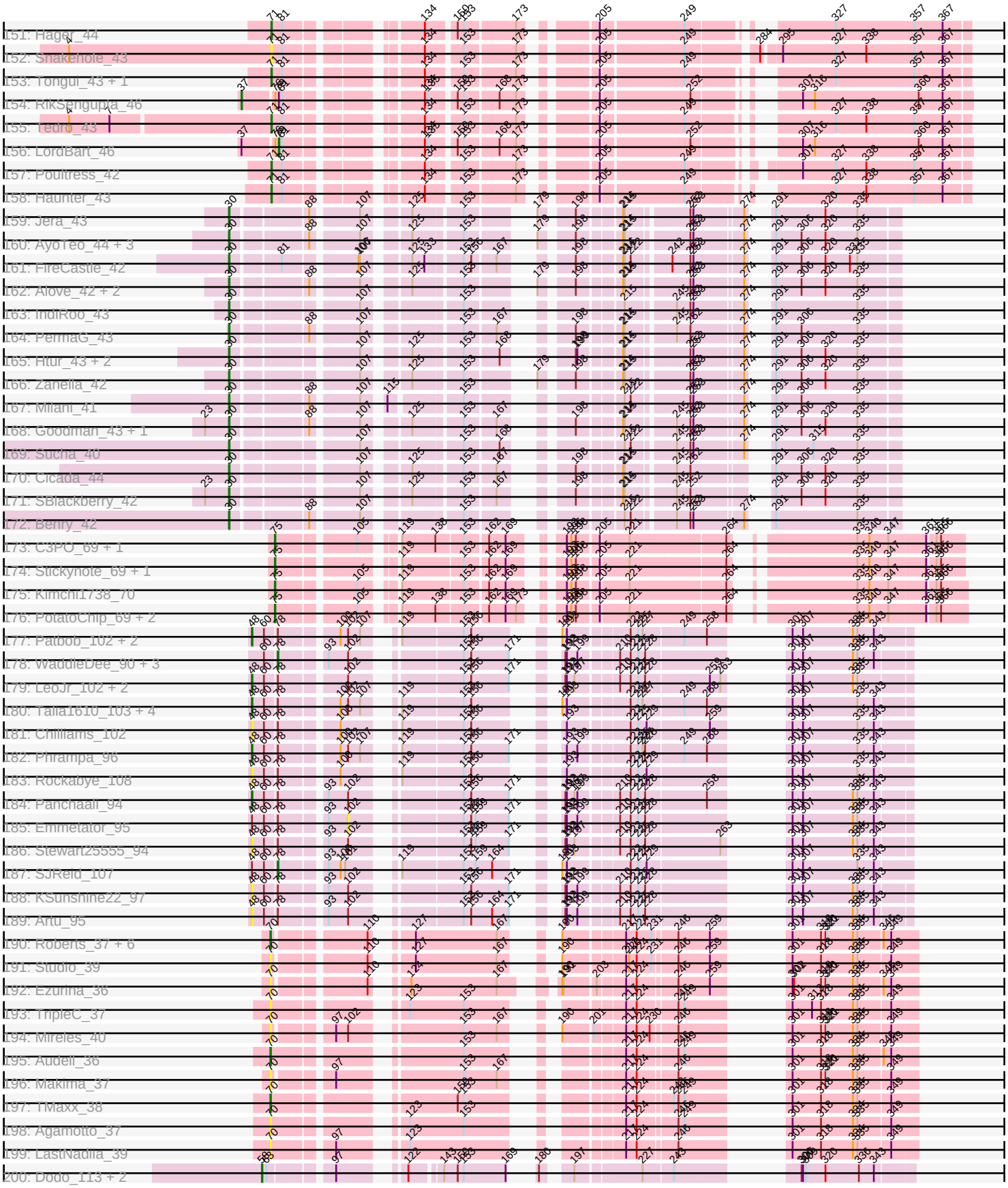
Pham 296137



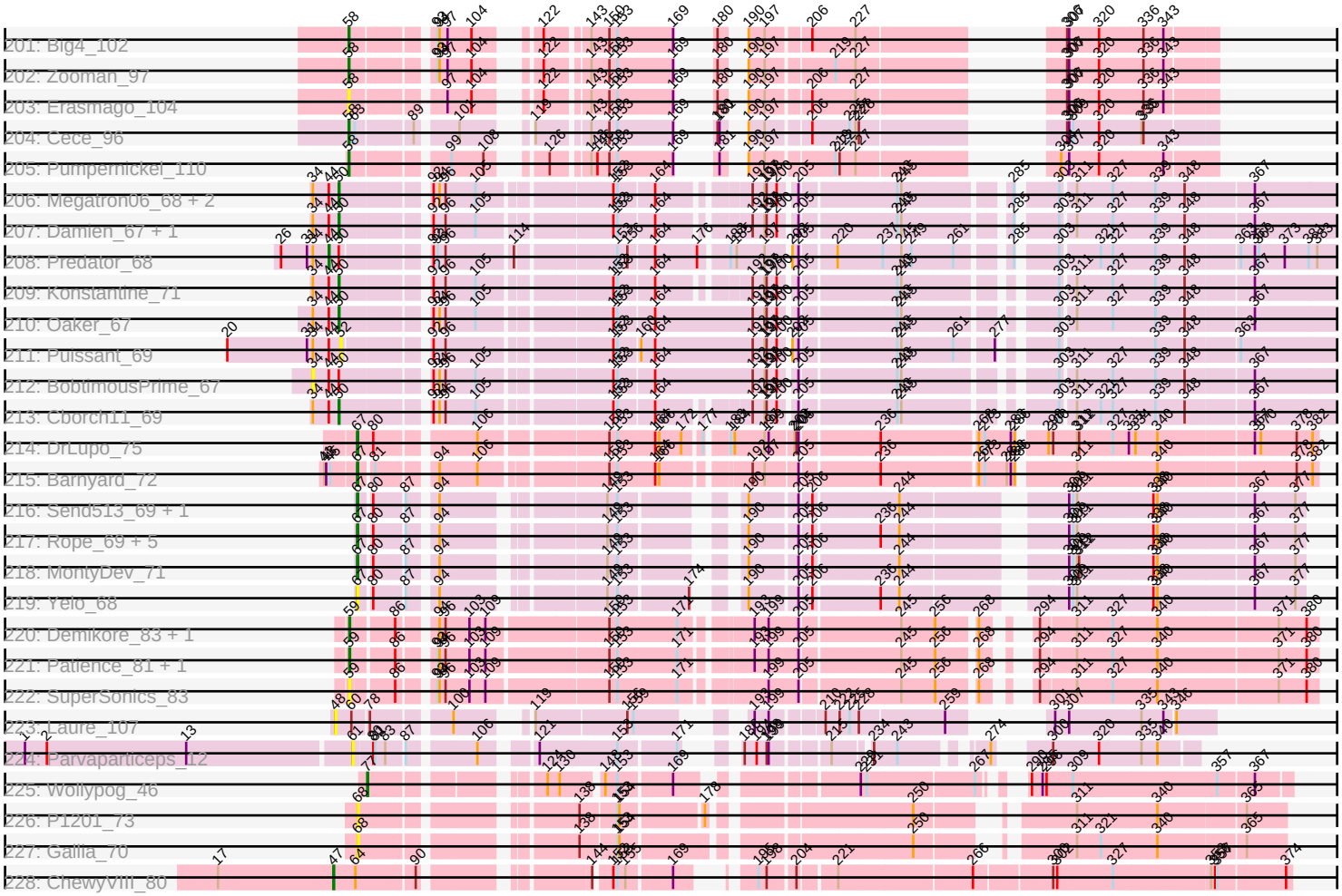
Pham 296137



Pham 296137


151: Hager_44
152: Snakehole_43
153: Tongui_43 + 1
154: RikSenguppa_46
155: Teuro_43
156: LordBart_46
157: Poultress_42
158: Haunter_43
159: Jera_43
160: AyoTeo_44 + 3
161: FireCastle_42
162: Alove_42 + 2
163: IndiRoo_43
164: PermaG_43
165: Htur_43 + 2
166: Zanella_42
167: Miiani_41
168: Goodman_43 + 1
169: Sucha_40
170: Cicada_44
171: SBlackberry_42
172: Benry_42
173: C3PO_69 + 1
174: Stickynote_69 + 1
175: Kimchi1738_70
176: PotatoChip_69 + 2
177: Patbob_102 + 2
178: WaddleDee_90 + 3
179: LeoJr_102 + 2
180: Talia1610_103 + 4
181: Chilliams_102
182: Phrampa_96
183: Rockabye_108
184: Panchaali_94
185: Emmetator_95
186: Stewart25555_94
187: SJReid_107
188: KSunshine22_97
189: Artu_95
190: Roberts_37 + 6
191: Studio_39
192: Ezurina_36
193: TripleC_37
194: Mireles_40
195: Audell_36
196: Makima_37
197: TMaxx_38
198: Agamotto_37
199: LastNadila_39
200: Dodo_113 + 2

Pham 296137


201: Big4_102
202: Zooman_97
203: Erasmago_104
204: Cece_96
205: Pumpernickel_110
206: Megatron06_68 + 2
207: Damien_67 + 1
208: Predator_68
209: Konstantine_71
210: Oaker_67
211: Puissant_69
212: BobtimousPrime_67
213: Cborch11_69
214: DrLupo_75
215: Barnyard_72
216: Send513_69 + 1
217: Rope_69 + 5
218: MontyDev_71
219: Yelo_68
220: Demikore_83 + 1
221: Patience_81 + 1
222: SuperSonics_83
223: Laure_107
224: Parvaparticeps_112
225: Wollypog_46
226: P1201_73
227: Galla_70
228: ChewyVim_80

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 296137 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296137 has 422 members, 64 are drafts.

Phages represented in each track:
- Track 1 : Fowlmouth_77
- Track 2 : Cuke_76
- Track 3 : MrMiyagi_76
- Track 4 : Indlulamithi_68
- Track 5 : Aikoy_74, Onyinye_74
- Track 6 : Leopard_73
- Track 7 : Maria1952_38, Herb_39, Temper16_39, Daiboju_39, Sergei_39, KingBob_39
- Track 8 : HeadNerd_39
- Track 9 : DrRobert_38
- Track 10 : Supakev_39, AustinPowers_39, Eunoia_39, Riovina_39, OMalley_39, Aledel_39
- Track 11 : Huckleberry_39, Moki_39, Bennie_39
- Track 12 : Preamble_39
- Track 13 : MeganNoll_41, Dino_42, Zorro_42, RAP15_42
- Track 14 : MrGloopy_42, Savage2526_42, Jumboset_42, Glenn_42
- Track 15 : Suppi_41, MrBoss_43, Wayne_41, PartyCup_42, CallieOMalley_41, AppleCider_41, Canowicakte_41
- Track 16 : BigMack_39
- Track 17 : GreenHearts_42
- Track 18 : Rozby_41, Beethoven_41, BrotherBLo_41, Riverdale_42, Kalizoi_41, Carpal_41, Immaculata_41, Cholula_41, Vallejo_42, Potatoes_41
- Track 19 : RcigaStruga_41, Huntingdon_41
- Track 20 : LilStuart_39, CristinaYang_39, ChewChew_39
- Track 21 : HunterDalle_39, Vulture_39
- Track 22 : Graynor_44
- Track 23 : DreamTeam_39, Gisselle_39
- Track 24 : Scuttle_41
- Track 25 : Pterodactyl_39, Lasagna_38, OurGirlNessie_38
- Track 26 : EstebanJulior_40, MamaPearl_40
- Track 27 : Greenhouse_43, Lakshmi_42, Nubia_42, Oxynfrius_42
- Track 28 : Joann_42
- Track 29 : Litotes_41
- Track 30 : Korra_41, Wawa_41
- Track 31 : Fluke_42
- Track 32 : PinkFriday_39
- Track 33 : Lennox_39, PitaDog_39, Makoto_39, Lucy_39, WonderBoy_38

- Track 34 : TattModd_40
- Track 35 : Nancia_39, Bodacious_39
- Track 36 : Misaeng_41
- Track 37 : Kittykat_40
- Track 38 : Christian_39
- Track 39 : Albanese_42
- Track 40 : Urla_40
- Track 41 : Pumancara_39
- Track 42 : Chridison_38
- Track 43 : JackieB_51
- Track 44 : Shynx_50, Intolerant_48
- Track 45 : LazerLemon_51
- Track 46 : Bogota_51
- Track 47 : Araceli_50
- Track 48 : Stuff_50
- Track 49 : Henoccus_51
- Track 50 : Crosby_51
- Track 51 : Marky_53
- Track 52 : Microdon_49
- Track 53 : UNTPL_52
- Track 54 : Yara_62
- Track 55 : PHTowN_66, ShakeNBake_66, Lizz_66
- Track 56 : Rooney_66, Gibson_66, Virizion_71
- Track 57 : Greenbelt_64
- Track 58 : Wilkos_68
- Track 59 : Dryad_70
- Track 60 : Wentworth_66
- Track 61 : SassyC_71
- Track 62 : Kokushibo_42, Spocter_40
- Track 63 : Hiyaa_41
- Track 64 : Keanu_40
- Track 65 : Galactica_39
- Track 66 : Turuncu_69
- Track 67 : GTE5_55
- Track 68 : Dalilpop_70, GRU1_55
- Track 69 : Flapper_69
- Track 70 : MerCougar_69
- Track 71 : Buggaboo_68, SuperSulley_68
- Track 72 : Foxboro_67, Phomeo_66, Jifall16_66, KidneyBean_67
- Track 73 : Commandaria_67
- Track 74 : StarStruck_67, Outis_67
- Track 75 : Wheezy_66
- Track 76 : GTE8_55
- Track 77 : GrootJr_68, Kurt_66, NovumRegina_66, Emianna_66, NatB6_66
- Track 78 : NosilaM_69
- Track 79 : Bonum_70, Kabluna_69
- Track 80 : Tracker_66
- Track 81 : Arti_65
- Track 82 : RedRaider_73
- Track 83 : Ennea_73, Lollipop1437_70
- Track 84 : Float294_67, Skysand_68
- Track 85 : Patio_68
- Track 86 : HubbaBubba_62

• Track 87 : Marietta_68, WhoseManz_67
• Track 88 : Sukkupi_67, Yndexa_67
• Track 89 : Pemberton_69
• Track 90 : NadineRae_67
• Track 91 : IDyn_65
• Track 92 : BiPauneto_69
• Track 93 : Fury_75, Pleakley_75
• Track 94 : HomeFry_72
• Track 95 : Scuba_76
• Track 96 : Braxoaddie_67, CoffeeBean_67, Maselop_67
• Track 97 : Apiary_67, Polyyuki_67
• Track 98 : Gagieri_66
• Track 99 : MacGully_76
• Track 100 : Helpful_60, PLot_57, Penelope2018_57
• Track 101 : Prager_57, Giuseppe_58, Butterscotch_56, Chill_59, Erk16_56, Mopey_58, PBI1_54, WaldoWhy_59, Adjutor_56, Delton_58, Visconti_58, Troll4_57, BigMama_55, Thoth_57
• Track 102 : SirHarley_59, Gumball_57
• Track 103 : KandZ_56
• Track 104 : SuperheroCarly_58
• Track 105 : Phalaborwa_58
• Track 106 : Nova_56
• Track 107 : Hawkeye_60
• Track 108 : Frizzle_31
• Track 109 : Sapo_31
• Track 110 : Ghobes_32
• Track 111 : Archimedes_34
• Track 112 : BiteSize_54, Sienna_54, Madi_54, Beyoncage_54
• Track 113 : Terapin_55, Djokovic_54
• Track 114 : LilyPad_56
• Track 115 : Suzy_54
• Track 116 : LittleFella_61
• Track 117 : Phendrix_170
• Track 118 : GodonK_181
• Track 119 : Mareelih_165, BlueNGold_164, Forza_168, Boopy_167
• Track 120 : Sixama_166
• Track 121 : GMA2_62
• Track 122 : Mima20_65, Rukungu_67, Zany_63, Rota_62, Sampudon_65, DoobyDoo_64, Erutan_65, LavAbarElk_65, MoiGyank_68, Jalebi_64
• Track 123 : RazorC_65, NovaSharks_67, Alyssamiracle_68, Avian_63, Riduram_65, Charminar_65, Rumi_66, Genamy16_68, Stormer_65, Jamemuya19_64, Astralis_65
• Track 124 : Pywacket_62
• Track 125 : OtterstedtS21_65, BirthdayBoy_67, Lambo_63, NorManre_69, Gibbin_67, Patos_69
• Track 126 : ParvusTarda_64
• Track 127 : LuckyLeo_62, Apeppi_60
• Track 128 : Tillicus_60
• Track 129 : Yikes_67, GretelLyn_65, Sadboi_66
• Track 130 : Fulcrum_65, GOATification_65
• Track 131 : Alephilan_66
• Track 132 : Ranch_65
• Track 133 : Wojtek_61
• Track 134 : DumpTruck_64

• Track 135 : Lila22_66
• Track 136 : Xenia2_63
• Track 137 : DaviePasture_65
• Track 138 : Theresita_43
• Track 139 : Aesir_42, JDawG_42
• Track 140 : JingleBells_43, Erudite_42, Dauntless_42, MortySmith_41
• Track 141 : Rachella_43
• Track 142 : OhDear_43, Potty_43, OverHedge_43, Krampus_43, CoolCookie_43, Neptune_43, Cybele_43, PhunaPhoke_43, Gilda_43, Kate_44
• Track 143 : Karate_42
• Track 144 : Sparcetus_46
• Track 145 : AnnaSerena_43, Anakin_43, Artiphact_43, Pharpay_43, NarutoRun_43
• Track 146 : Crestdrop_43
• Track 147 : FountainFog_42
• Track 148 : SilentWarrior_43
• Track 149 : Hiddenleaf_43, Chivey_43, FreddieHg_43, Annapurna_43, DannyDe_43
• Track 150 : Kors_46, TinyMiny_46, Bramble_46, Ajin_46
• Track 151 : Hager_44
• Track 152 : Snakehole_43
• Track 153 : Tongui_43, Rie18_43
• Track 154 : RikSengupta_46
• Track 155 : Tedro_43
• Track 156 : LordBart_46
• Track 157 : Poultress_42
• Track 158 : Haunter_43
• Track 159 : Jera_43
• Track 160 : AyoTeo_44, TurboVicky_43, Typher_45, Labella_45
• Track 161 : FireCastle_42
• Track 162 : Alove_42, Rootkit7_42, Olympi_44
• Track 163 : IndiRoo_43
• Track 164 : PermaG_43
• Track 165 : Htur_43, Rasovi_43, Linayshia_43
• Track 166 : Zanella_42
• Track 167 : Milani_41
• Track 168 : Goodman_43, Johann_43
• Track 169 : Sucha_40
• Track 170 : Cicada_44
• Track 171 : SBlackberry_42
• Track 172 : Benry_42
• Track 173 : C3PO_69, Cruella_69
• Track 174 : Stickynote_69, Darwin_70
• Track 175 : Kimchi1738_70
• Track 176 : PotatoChip_69, Zion_69, PeteyPab_68
• Track 177 : Patbob_102, GoldenEssence_89, FloraSnap32_103
• Track 178 : WaddleDee_90, Ellewin_91, BooTeria_99, DunneganBoMo_92
• Track 179 : LeoJr_102, Atuin_97, ReginaGlobina_102
• Track 180 : Talia1610_103, Bloom_107, Racecar_104, Mimi_103, FrostedClock_106
• Track 181 : Chilliams_102
• Track 182 : Phrampa_96
• Track 183 : Rockabye_108
• Track 184 : Panchaali_94
• Track 185 : Emmetator_95

• Track 186 : Stewart25555_94
• Track 187 : SJReid_107
• Track 188 : KSunshine22_97
• Track 189 : Artu_95
• Track 190 : Roberts_37, Gerri43_38, CardboardBox_38, AnnabelLee_37, ChipsNGuac_38, Neuvillette_37, ChamoyPickle_39
• Track 191 : Studio_39
• Track 192 : Ezurina_36
• Track 193 : TripleC_37
• Track 194 : Mireles_40
• Track 195 : Audell_36
• Track 196 : Makima_37
• Track 197 : TMaxx_38
• Track 198 : Agamotto_37
• Track 199 : LastNadiia_39
• Track 200 : Dodo_113, A3Wally_113, PauloDiaboli_113
• Track 201 : Big4_102
• Track 202 : Zooman_97
• Track 203 : Erasmago_104
• Track 204 : Cece_96
• Track 205 : Pumpernickel_110
• Track 206 : Megatron06_68, Phreeze_66, Thumb_68
• Track 207 : Damien_67, Beckerton_66
• Track 208 : Predator_68
• Track 209 : Konstantine_71
• Track 210 : Oaker_67
• Track 211 : Puissant_69
• Track 212 : BobtimousPrime_67
• Track 213 : Cborch11_69
• Track 214 : DrLupo_75
• Track 215 : Barnyard_72
• Track 216 : Send513_69, Zenon_71
• Track 217 : Rope_69, Candle_67, Papyrus_69, Nilo_71, Riparian_71, Weiss13_69
• Track 218 : MontyDev_71
• Track 219 : Yelo_68
• Track 220 : Demikore_83, Madruga_79
• Track 221 : Patience_81, Labelle_80
• Track 222 : SuperSonics_83
• Track 223 : Laure_107
• Track 224 : Parvaparticeps_12
• Track 225 : Wollypog_46
• Track 226 : P1201_73
• Track 227 : Gallia_70
• Track 228 : ChewyVIII_80

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

The start number called the most often in the published annotations is 67, it was called in 140 of the 358 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Albanese_42, Alephilan_66, Alyssamiracle_68, Apeppi_60, Apiary_67, AppleCider_41, Arti_65, Astralis_65, Avian_63, Barnyard_72, Beethoven_41, Bennie_39, BigMack_39, BirthdayBoy_67, Bodacious_39, Braxoaddie_67, BrotherBLo_41, CallieOMalley_41, Candle_67, Canowicakte_41, Carpal_41, Charminar_65, ChewChew_39, Cholula_41, Christian_39, CoffeeBean_67, Commandaria_67, CristinaYang_39, DaviePasture_65, Dino_42, Djokovic_54, DoobyDoo_64, DrLupo_75, DrRobert_38, DreamTeam_39, DumpTruck_64, Emianna_66, Erutan_65, EstebanJulior_40, Fluke_42, Foxboro_67, Fulcrum_65, GOATification_65, GTE8_55, Gagieri_66, Genamy16_68, Gibbin_67, Gisselle_39, Glenn_42, Graynor_44, GreenHearts_42, Greenhouse_43, GretelLyn_65, GrootJr_68, HeadNerd_39, Huckleberry_39, Huntingdon_41, Immaculata_41, Indlulamithi_68, Jalebi_64, Jamemuya19_64, Jifall16_66, Joann_42, Jumboset_42, Kalizoi_41, KidneyBean_67, Kittykat_40, Korra_41, Kurt_66, Lakshmi_42, Lambo_63, Lasagna_38, LavAbarElk_65, Lennox_39, LilStuart_39, Lila22_66, LilyPad_56, Litotes_41, LuckyLeo_62, Lucy_39, MacGully_76, Makoto_39, MamaPearl_40, Maselop_67, MeganNoll_41, Mima20_65, Misaeng_41, MoiGyank_68, Moki_39, MontyDev_71, MrBoss_43, MrGloopy_42, Nancia_39, NatB6_66, Nilo_71, NorManre_69, NovaSharks_67, NovumRegina_66, Nubia_42, OtterstedtS21_65, OurGirlNessie_38, Oxynfrius_42, Papyrus_69, PartyCup_42, ParvusTarda_64, Patos_69, Phomeo_66, PitaDog_39, Polyyuki_67, Potatoes_41, Preamble_39, Pterodactyl_39, RAP15_42, Ranch_65, RazorC_65, RcigaStruga_41, Riduram_65, Riparian_71, Riverdale_42, Rope_69, Rota_62, Rozby_41, Rukungu_67, Rumi_66, Sadboi_66, Sampudon_65, Savage2526_42, Scuttle_41, Send513_69, Stormer_65, Suppi_41, Suzy_54, TattModd_40, Terapin_55, Tillicus_60, Tracker_66, Urla_40, Vallejo_42, Wawa_41, Wayne_41, Weiss13_69, Wheezy_66, Wojtek_61, WonderBoy_38, Xenia2_63, Yelo_68, Yikes_67, Zany_63, Zenon_71, Zorro_42,

Genes that have the "Most Annotated" start but do not call it:
• Beyoncage_54, BiteSize_54, Cuke_76, Fowlmouth_77, LittleFella_61, Madi_54, MrMiyagi_76, Pywacket_62, Sienna_54,

Genes that do not have the "Most Annotated" start:
• A3Wally_113, Adjutor_56, Aesir_42, Agamotto_37, Aikoy_74, Ajin_46, Aledel_39, Alove_42, Anakin_43, AnnaSerena_43, AnnabelLee_37, Annapurna_43, Araceli_50, Archimedes_34, Artiphact_43, Artu_95, Atuin_97, Audell_36, AustinPowers_39, AyoTeo_44, Beckerton_66, Benry_42, BiPauneto_69, Big4_102, BigMama_55, Bloom_107, BlueNGold_164, BobtimousPrime_67, Bogota_51, Bonum_70, BooTeria_99, Boopy_167, Bramble_46, Buggaboo_68, Butterscotch_56, C3PO_69, CardboardBox_38, Cborch11_69, Cece_96, ChamoyPickle_39, ChewyVIII_80, Chill_59, Chilliams_102, ChipsNGuac_38, Chivey_43, Chridison_38, Cicada_44, CoolCookie_43, Crestdrop_43, Crosby_51, Cruella_69, Cybele_43, Daiboju_39, Dalilpop_70, Damien_67, DannyDe_43, Darwin_70, Dauntless_42, Delton_58, Demikore_83, Dodo_113, Dryad_70, DunneganBoMo_92, Ellewin_91, Emmetator_95, Ennea_73, Erasmago_104, Erk16_56, Erudite_42, Eunoia_39, Ezurina_36, FireCastle_42, Flapper_69, Float294_67, FloraSnap32_103, Forza_168, FountainFog_42, FreddieHg_43, Frizzle_31, FrostedClock_106, Fury_75, GMA2_62, GRU1_55, GTE5_55, Galactica_39, Gallia_70, Gerri43_38, Ghobes_32, Gibson_66, Gilda_43, Giuseppe_58, GodonK_181, GoldenEssence_89, Goodman_43, Greenbelt_64, Gumball_57, Hager_44, Haunter_43, Hawkeye_60, Helpful_60, Henoccus_51, Herb_39, Hiddenleaf_43, Hiyaa_41, HomeFry_72, Htur_43, HubbaBubba_62, HunterDalle_39, IDyn_65, IndiRoo_43, Intolerant_48, JDawG_42, JackieB_51, Jera_43, JingleBells_43, Johann_43, KSunshine22_97, Kabluna_69,

KandZ_56, Karate_42, Kate_44, Keanu_40, Kimchi1738_70, KingBob_39, Kokushibo_42, Konstantine_71, Kors_46, Krampus_43, Labella_45, Labelle_80, LastNadiia_39, Laure_107, LazerLemon_51, LeoJr_102, Leopard_73, Linayshia_43, Lizz_66, Lollipop1437_70, LordBart_46, Madruga_79, Makima_37, Mareelih_165, Maria1952_38, Marietta_68, Marky_53, Megatron06_68, MerCougar_69, Microdon_49, Milani_41, Mimi_103, Mireles_40, Mopey_58, MortySmith_41, NadineRae_67, NarutoRun_43, Neptune_43, Neuvillette_37, NosilaM_69, Nova_56, OMalley_39, Oaker_67, OhDear_43, Olympi_44, Onyinye_74, Outis_67, OverHedge_43, P1201_73, PBI1_54, PHTowN_66, PLot_57, Panchaali_94, Parvaparticeps_12, Patbob_102, Patience_81, Patio_68, PauloDiaboli_113, Pemberton_69, Penelope2018_57, PermaG_43, PeteyPab_68, Phalaborwa_58, Pharpay_43, Phendrix_170, Phrampa_96, Phreeze_66, PhunaPhoke_43, PinkFriday_39, Pleakley_75, PotatoChip_69, Potty_43, Poultress_42, Prager_57, Predator_68, Puissant_69, Pumancara_39, Pumpernickel_110, Racecar_104, Rachella_43, Rasovi_43, RedRaider_73, ReginaGlobina_102, Rie18_43, RikSengupta_46, Riovina_39, Roberts_37, Rockabye_108, Rooney_66, Rootkit7_42, SBlackberry_42, SJReid_107, Sapo_31, SassyC_71, Scuba_76, Sergei_39, ShakeNBake_66, Shynx_50, SilentWarrior_43, SirHarley_59, Sixama_166, Skysand_68, Snakehole_43, Sparcetus_46, Spocter_40, StarStruck_67, Stewart25555_94, Stickynote_69, Studio_39, Stuff_50, Sucha_40, Sukkupi_67, Supakev_39, SuperSonics_83, SuperSulley_68, SuperheroCarly_58, TMaxx_38, Talia1610_103, Tedro_43, Temper16_39, Theresita_43, Thoth_57, Thumb_68, TinyMiny_46, Tongui_43, TripleC_37, Troll4_57, TurboVicky_43, Turuncu_69, Typher_45, UNTPL_52, Virizion_71, Visconti_58, Vulture_39, WaddleDee_90, WaldoWhy_59, Wentworth_66, WhoseManz_67, Wilkos_68, Wollypog_46, Yara_62, Yndexa_67, Zanella_42, Zion_69, Zooman_97,

Summary by start number:

Start 27:
• Found in 4 of 422 (0.9%) 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: Sapo_31 (DA),

Start 30:
• Found in 24 of 422 (5.7%) of genes in pham
• Manual Annotations of this start: 19 of 358
• Called 95.8% of time when present
• Phage (with cluster) where this start called: Alove_42 (EJ), AyoTeo_44 (EJ), Benry_42 (EJ), Cicada_44 (EJ), FireCastle_42 (EJ), Goodman_43 (EJ), Htur_43 (EJ), IndiRoo_43 (EJ), Jera_43 (EJ), Johann_43 (EJ), Labella_45 (EJ), Linayshia_43 (EJ), Milani_41 (EJ), Olympi_44 (EJ), PermaG_43 (EJ), Rasovi_43 (EJ), Rootkit7_42 (EJ), SBlackberry_42 (EJ), Sucha_40 (EJ), Theresita_43 (EA7), TurboVicky_43 (EJ), Typher_45 (EJ), Zanella_42 (EJ),

Start 33:
• Found in 1 of 422 (0.2%) 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: Sixama_166 (DS),

Start 34:

• Found in 14 of 422 (3.3%) of genes in pham
• No Manual Annotations of this start.
• Called 7.1% of time when present
• Phage (with cluster) where this start called: BobtimousPrime_67 (H1),

Start 36:
• Found in 10 of 422 (2.4%) of genes in pham
• Manual Annotations of this start: 4 of 358
• Called 40.0% of time when present
• Phage (with cluster) where this start called: Beyoncage_54 (DG1), BiteSize_54 (DG1), Madi_54 (DG1), Sienna_54 (DG1),

Start 37:
• Found in 6 of 422 (1.4%) of genes in pham
• Manual Annotations of this start: 1 of 358
• Called 16.7% of time when present
• Phage (with cluster) where this start called: RikSengupta_46 (EF),

Start 39:
• Found in 1 of 422 (0.2%) 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: GodonK_181 (DK),

Start 44:
• Found in 11 of 422 (2.6%) 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: Predator_68 (H1),

Start 46:
• Found in 1 of 422 (0.2%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GMA2_62 (DS),

Start 47:
• Found in 5 of 422 (1.2%) of genes in pham
• Manual Annotations of this start: 5 of 358
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BlueNGold_164 (DS), Boopy_167 (DS), ChewyVIII_80 (singleton), Forza_168 (DS), Mareelih_165 (DS),

Start 48:
• Found in 23 of 422 (5.5%) of genes in pham
• Manual Annotations of this start: 9 of 358
• Called 87.0% of time when present
• Phage (with cluster) where this start called: Artu_95 (FC), Atuin_97 (FC), Bloom_107 (FC), Chilliams_102 (FC), FloraSnap32_103 (FC), FrostedClock_106 (FC), GoldenEssence_89 (FC), KSunshine22_97 (FC), Laure_107 (UNK), LeoJr_102 (FC), Mimi_103 (FC), Panchaali_94 (FC), Patbob_102 (FC), Phendrix_170 (DK), Phrampa_96 (FC), Racecar_104 (FC), ReginaGlobina_102 (FC), Rockabye_108 (FC), Stewart25555_94 (FC), Talia1610_103 (FC),

Start 49:
• Found in 5 of 422 (1.2%) of genes in pham
• Manual Annotations of this start: 2 of 358
• Called 40.0% of time when present
• Phage (with cluster) where this start called: Galactica_39 (BQ), Keanu_40 (BQ),

Start 50:
• Found in 16 of 422 (3.8%) of genes in pham
• Manual Annotations of this start: 10 of 358
• Called 68.8% of time when present
• Phage (with cluster) where this start called: Beckerton_66 (H1), Cborch11_69 (H1), Damien_67 (H1), Hiyaa_41 (BQ), Kokushibo_42 (BQ), Konstantine_71 (H1), Megatron06_68 (H1), Oaker_67 (H1), Phreeze_66 (H1), Spocter_40 (BQ), Thumb_68 (H1),

Start 52:
• Found in 1 of 422 (0.2%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Puissant_69 (H1),

Start 55:
• Found in 5 of 422 (1.2%) of genes in pham
• Manual Annotations of this start: 1 of 358
• Called 20.0% of time when present
• Phage (with cluster) where this start called: UNTPL_52 (BH),

Start 57:
• Found in 4 of 422 (0.9%) of genes in pham
• Manual Annotations of this start: 2 of 358
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Ennea_73 (CR3), Lollipop1437_70 (CR3),

Start 58:
• Found in 20 of 422 (4.7%) of genes in pham
• Manual Annotations of this start: 17 of 358
• Called 95.0% of time when present
• Phage (with cluster) where this start called: A3Wally_113 (GD1), Araceli_50 (BH), Big4_102 (GD2), Bogota_51 (BH), Cece_96 (GD3), Crosby_51 (BH), Dodo_113 (GD1), Erasmago_104 (GD2), Henoccus_51 (BH), Intolerant_48 (BH), JackieB_51 (BH), LazerLemon_51 (BH), Marky_53 (BH), Microdon_49 (BH), PauloDiaboli_113 (GD1), Pumpernickel_110 (GD4), Shynx_50 (BH), Stuff_50 (BH), Zooman_97 (GD2),

Start 59:
• Found in 5 of 422 (1.2%) 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: Demikore_83 (U), Labelle_80 (U), Madruga_79 (U), Patience_81 (U), SuperSonics_83 (U),

Start 60:

• Found in 55 of 422 (13.0%) of genes in pham
• Manual Annotations of this start: 26 of 358
• Called 49.1% of time when present
• Phage (with cluster) where this start called: Adjutor_56 (D1), Aikoy_74 (AE), BigMama_55 (D1), Butterscotch_56 (D1), Chill_59 (D1), Cuke_76 (AC), Delton_58 (D1), Erk16_56 (D1), Fowlmouth_77 (AC), Giuseppe_58 (D1), Hawkeye_60 (D2), Helpful_60 (D1), Leopard_73 (AE), Mopey_58 (D1), MrMiyagi_76 (AC), Nova_56 (D1), Onyinye_74 (AE), PBI1_54 (D1), PLot_57 (D1), Penelope2018_57 (D1), Phalaborwa_58 (D1), Prager_57 (D1), SuperheroCarly_58 (D1), Thoth_57 (D1), Troll4_57 (D1), Visconti_58 (D1), WaldoWhy_59 (D1),

Start 61:
• Found in 1 of 422 (0.2%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Parvaparticeps_12 (UNK),

Start 62:
• Found in 9 of 422 (2.1%) of genes in pham
• Manual Annotations of this start: 5 of 358
• Called 77.8% of time when present
• Phage (with cluster) where this start called: Fury_75 (CR5), HomeFry_72 (CR5), LittleFella_61 (DG2), Patio_68 (CR3), Pleakley_75 (CR5), RedRaider_73 (CR3), Scuba_76 (CR5),

Start 65:
• Found in 10 of 422 (2.4%) of genes in pham
• Manual Annotations of this start: 7 of 358
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Dryad_70 (BN), Gibson_66 (BN), Lizz_66 (BN), PHTowN_66 (BN), Rooney_66 (BN), SassyC_71 (BN), ShakeNBake_66 (BN), Virizion_71 (BN), Wentworth_66 (BN), Wilkos_68 (BN),

Start 66:
• Found in 1 of 422 (0.2%) 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: Greenbelt_64 (BN),

Start 67:
• Found in 159 of 422 (37.7%) of genes in pham
• Manual Annotations of this start: 140 of 358
• Called 94.3% of time when present
• Phage (with cluster) where this start called: Albanese_42 (AK), Alephilan_66 (DV), Alyssamiracle_68 (DV), Apeppi_60 (DV), Apiary_67 (CR6), AppleCider_41 (AK), Arti_65 (CR2), Astralis_65 (DV), Avian_63 (DV), Barnyard_72 (H2), Beethoven_41 (AK), Bennie_39 (AK), BigMack_39 (AK), BirthdayBoy_67 (DV), Bodacious_39 (AK), Braxoaddie_67 (CR6), BrotherBLo_41 (AK), CallieOMalley_41 (AK), Candle_67 (R), Canowicakte_41 (AK), Carpal_41 (AK), Charminar_65 (DV), ChewChew_39 (AK), Cholula_41 (AK), Christian_39 (AK), CoffeeBean_67 (CR6), Commandaria_67 (CR2), CristinaYang_39 (AK), DaviePasture_65 (DV), Dino_42 (AK), Djokovic_54 (DG1), DoobyDoo_64 (DV), DrLupo_75 (H2), DrRobert_38 (AK), DreamTeam_39 (AK), DumpTruck_64 (DV), Emianna_66 (CR2), Erutan_65 (DV), EstebanJulior_40 (AK),

Fluke_42 (AK), Foxboro_67 (CR2), Fulcrum_65 (DV), GOATification_65 (DV), GTE8_55 (CR2), Gagieri_66 (CR6), Genamy16_68 (DV), Gibbin_67 (DV), Gisselle_39 (AK), Glenn_42 (AK), Graynor_44 (AK), GreenHearts_42 (AK), Greenhouse_43 (AK), GretelLyn_65 (DV), GrootJr_68 (CR2), HeadNerd_39 (AK), Huckleberry_39 (AK), Huntingdon_41 (AK), Immaculata_41 (AK), Indlulamithi_68 (AC), Jalebi_64 (DV), Jamemuya19_64 (DV), Jifall16_66 (CR2), Joann_42 (AK), Jumboset_42 (AK), Kalizoi_41 (AK), KidneyBean_67 (CR2), Kittykat_40 (AK), Korra_41 (AK), Kurt_66 (CR2), Lakshmi_42 (AK), Lambo_63 (DV), Lasagna_38 (AK), LavAbarElk_65 (DV), Lennox_39 (AK), LilStuart_39 (AK), Lila22_66 (DV), LilyPad_56 (DG1), Litotes_41 (AK), LuckyLeo_62 (DV), Lucy_39 (AK), MacGully_76 (CR7), Makoto_39 (AK), MamaPearl_40 (AK), Maselop_67 (CR6), MeganNoll_41 (AK), Mima20_65 (DV), Misaeng_41 (AK), MoiGyank_68 (DV), Moki_39 (AK), MontyDev_71 (R), MrBoss_43 (AK), MrGloopy_42 (AK), Nancia_39 (AK), NatB6_66 (CR2), Nilo_71 (R), NorManre_69 (DV), NovaSharks_67 (DV), NovumRegina_66 (CR2), Nubia_42 (AK), OtterstedtS21_65 (DV), OurGirlNessie_38 (AK), Oxynfrius_42 (AK), Papyrus_69 (R), PartyCup_42 (AK), ParvusTarda_64 (DV), Patos_69 (DV), Phomeo_66 (CR2), PitaDog_39 (AK), Polyyuki_67 (CR6), Potatoes_41 (AK), Preamble_39 (AK), Pterodactyl_39 (AK), RAP15_42 (AK), Ranch_65 (DV), RazorC_65 (DV), RcigaStruga_41 (AK), Riduram_65 (DV), Riparian_71 (R), Riverdale_42 (AK), Rope_69 (R), Rota_62 (DV), Rozby_41 (AK), Rukungu_67 (DV), Rumi_66 (DV), Sadboi_66 (DV), Sampudon_65 (DV), Savage2526_42 (AK), Scuttle_41 (AK), Send513_69 (R), Stormer_65 (DV), Suppi_41 (AK), Suzy_54 (DG1), TattModd_40 (AK), Terapin_55 (DG1), Tillicus_60 (DV), Tracker_66 (CR2), Urla_40 (AK), Vallejo_42 (AK), Wawa_41 (AK), Wayne_41 (AK), Weiss13_69 (R), Wheezy_66 (CR2), Wojtek_61 (DV), WonderBoy_38 (AK), Xenia2_63 (DV), Yelo_68 (R), Yikes_67 (DV), Zany_63 (DV), Zenon_71 (R), Zorro_42 (AK),

Start 68:
• Found in 2 of 422 (0.5%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gallia_70 (singleton), P1201_73 (singleton),

Start 70:
• Found in 27 of 422 (6.4%) of genes in pham
• Manual Annotations of this start: 13 of 358
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Agamotto_37 (FR), AnnabelLee_37 (FR), Audell_36 (FR), Bonum_70 (CR2), Buggaboo_68 (CR2), CardboardBox_38 (FR), ChamoyPickle_39 (FR), ChipsNGuac_38 (FR), Dalilpop_70 (CR1), Ezurina_36 (FR), Flapper_69 (CR1), GRU1_55 (CR1), Gerri43_38 (FR), Kabluna_69 (CR2), LastNadiia_39 (FR), Makima_37 (FR), MerCougar_69 (CR2), Mireles_40 (FR), Neuvillette_37 (FR), NosilaM_69 (CR2), Outis_67 (CR2), Roberts_37 (FR), StarStruck_67 (CR2), Studio_39 (FR), SuperSulley_68 (CR2), TMaxx_38 (FR), TripleC_37 (FR),

Start 71:
• Found in 38 of 422 (9.0%) of genes in pham
• Manual Annotations of this start: 34 of 358
• Called 97.4% of time when present
• Phage (with cluster) where this start called: Aesir_42 (EF), Anakin_43 (EF), AnnaSerena_43 (EF), Annapurna_43 (EF), Artiphact_43 (EF), Chivey_43 (EF),

CoolCookie_43 (EF), Crestdrop_43 (EF), Cybele_43 (EF), DannyDe_43 (EF), Dauntless_42 (EF), Erudite_42 (EF), FountainFog_42 (EF), FreddieHg_43 (EF), Gilda_43 (EF), Hager_44 (EF), Haunter_43 (EF), Hiddenleaf_43 (EF), JDawG_42 (EF), JingleBells_43 (EF), Karate_42 (EF), Kate_44 (EF), Krampus_43 (EF), MortySmith_41 (EF), NarutoRun_43 (EF), Neptune_43 (EF), OhDear_43 (EF), OverHedge_43 (EF), Pharpay_43 (EF), PhunaPhoke_43 (EF), Potty_43 (EF), Poultress_42 (EF), Rie18_43 (EF), SilentWarrior_43 (EF), Snakehole_43 (EF), Tedro_43 (EF), Tongui_43 (EF),

Start 72:
• Found in 8 of 422 (1.9%) of genes in pham
• Manual Annotations of this start: 7 of 358
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BiPauneto_69 (CR4), IDyn_65 (CR4), Marietta_68 (CR4), NadineRae_67 (CR4), Pemberton_69 (CR4), Sukkupi_67 (CR4), WhoseManz_67 (CR4), Yndexa_67 (CR4),

Start 73:
• Found in 26 of 422 (6.2%) of genes in pham
• Manual Annotations of this start: 17 of 358
• Called 65.4% of time when present
• Phage (with cluster) where this start called: Aledel_39 (AK), AustinPowers_39 (AK), Chridison_38 (AK), Daiboju_39 (AK), Eunoia_39 (AK), Herb_39 (AK), HunterDalle_39 (AK), KingBob_39 (AK), Maria1952_38 (AK), OMalley_39 (AK), PinkFriday_39 (AK), Pumancara_39 (AK), Riovina_39 (AK), Sergei_39 (AK), Supakev_39 (AK), Temper16_39 (AK), Vulture_39 (AK),

Start 74:
• Found in 1 of 422 (0.2%) 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: Yara_62 (BN),

Start 75:
• Found in 8 of 422 (1.9%) of genes in pham
• Manual Annotations of this start: 8 of 358
• Called 100.0% of time when present
• Phage (with cluster) where this start called: C3PO_69 (EN), Cruella_69 (EN), Darwin_70 (EN), Kimchi1738_70 (EN), PeteyPab_68 (EN), PotatoChip_69 (EN), Stickynote_69 (EN), Zion_69 (EN),

Start 76:
• Found in 7 of 422 (1.7%) of genes in pham
• Manual Annotations of this start: 5 of 358
• Called 71.4% of time when present
• Phage (with cluster) where this start called: Ajin_46 (EF), Bramble_46 (EF), Kors_46 (EF), Sparcetus_46 (EF), TinyMiny_46 (EF),

Start 77:
• Found in 1 of 422 (0.2%) 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: Wollypog_46 (singleton),

Start 78:
• Found in 25 of 422 (5.9%) of genes in pham
• Manual Annotations of this start: 4 of 358
• Called 20.0% of time when present
• Phage (with cluster) where this start called: BooTeria_99 (FC), DunneganBoMo_92 (FC), Ellewin_91 (FC), SJReid_107 (FC), WaddleDee_90 (FC),

Start 79:
• Found in 9 of 422 (2.1%) of genes in pham
• Manual Annotations of this start: 1 of 358
• Called 11.1% of time when present
• Phage (with cluster) where this start called: LordBart_46 (EF),

Start 80:
• Found in 82 of 422 (19.4%) of genes in pham
• Manual Annotations of this start: 1 of 358
• Called 2.4% of time when present
• Phage (with cluster) where this start called: Archimedes_34 (DA), Pywacket_62 (DV),

Start 81:
• Found in 55 of 422 (13.0%) of genes in pham
• Manual Annotations of this start: 3 of 358
• Called 5.5% of time when present
• Phage (with cluster) where this start called: Frizzle_31 (DA), Ghobes_32 (DA), Rachella_43 (EF),

Start 82:
• Found in 2 of 422 (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: Float294_67 (CR3), Skysand_68 (CR3),

Start 85:
• Found in 24 of 422 (5.7%) of genes in pham
• Manual Annotations of this start: 3 of 358
• Called 12.5% of time when present
• Phage (with cluster) where this start called: Gumball_57 (D1), KandZ_56 (D1), SirHarley_59 (D1),

Start 102:
• Found in 22 of 422 (5.2%) of genes in pham
• No Manual Annotations of this start.
• Called 4.5% of time when present
• Phage (with cluster) where this start called: Emmetator_95 (FC),

Start 128:
• Found in 19 of 422 (4.5%) of genes in pham
• Manual Annotations of this start: 1 of 358
• Called 5.3% of time when present
• Phage (with cluster) where this start called: HubbaBubba_62 (CR4),

Start 129:
• Found in 16 of 422 (3.8%) of genes in pham
• Manual Annotations of this start: 1 of 358
• Called 12.5% of time when present
• Phage (with cluster) where this start called: GTE5_55 (CR1), Turuncu_69 (CR1),

Summary by clusters:

There are 37 clusters represented in this pham: GD1, FR, GD3, GD4, DK, BN, BH, GD2, DA, FC, BQ, DV, DS, AC, EN, AE, EJ, AK, EF, DG2, R, U, singleton, UNK, EA7, CR2, CR3, CR1, CR6, CR7, CR4, CR5, H2, H1, DG1, D2, D1,

Info for manual annotations of cluster AC:
•Start number 60 was manually annotated 3 times for cluster AC.
•Start number 67 was manually annotated 1 time for cluster AC.

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

Info for manual annotations of cluster AK:
•Start number 67 was manually annotated 67 times for cluster AK.
•Start number 73 was manually annotated 17 times for cluster AK.

Info for manual annotations of cluster BH:
•Start number 55 was manually annotated 1 time for cluster BH.
•Start number 58 was manually annotated 11 times for cluster BH.

Info for manual annotations of cluster BN:
•Start number 65 was manually annotated 7 times for cluster BN.
•Start number 66 was manually annotated 1 time for cluster BN.
•Start number 74 was manually annotated 1 time for cluster BN.

Info for manual annotations of cluster BQ:
•Start number 49 was manually annotated 2 times for cluster BQ.
•Start number 50 was manually annotated 2 times for cluster BQ.

Info for manual annotations of cluster CR1:
•Start number 70 was manually annotated 2 times for cluster CR1.
•Start number 129 was manually annotated 1 time for cluster CR1.

Info for manual annotations of cluster CR2:
•Start number 67 was manually annotated 13 times for cluster CR2.
•Start number 70 was manually annotated 8 times for cluster CR2.

Info for manual annotations of cluster CR3:
•Start number 57 was manually annotated 2 times for cluster CR3.
•Start number 62 was manually annotated 2 times for cluster CR3.
•Start number 82 was manually annotated 2 times for cluster CR3.

Info for manual annotations of cluster CR4:
•Start number 72 was manually annotated 7 times for cluster CR4.
•Start number 128 was manually annotated 1 time for cluster CR4.

Info for manual annotations of cluster CR5:
•Start number 62 was manually annotated 2 times for cluster CR5.

Info for manual annotations of cluster CR6:
•Start number 67 was manually annotated 6 times for cluster CR6.

Info for manual annotations of cluster CR7:
•Start number 67 was manually annotated 1 time for cluster CR7.

Info for manual annotations of cluster D1:
•Start number 60 was manually annotated 19 times for cluster D1.
•Start number 85 was manually annotated 3 times for cluster D1.

Info for manual annotations of cluster D2:
•Start number 60 was manually annotated 1 time for cluster D2.

Info for manual annotations of cluster DA:
•Start number 27 was manually annotated 1 time for cluster DA.
•Start number 80 was manually annotated 1 time for cluster DA.
•Start number 81 was manually annotated 2 times for cluster DA.

Info for manual annotations of cluster DG1:
•Start number 36 was manually annotated 4 times for cluster DG1.
•Start number 67 was manually annotated 4 times for cluster DG1.

Info for manual annotations of cluster DG2:
•Start number 62 was manually annotated 1 time for cluster DG2.

Info for manual annotations of cluster DK:
•Start number 39 was manually annotated 1 time for cluster DK.
•Start number 48 was manually annotated 1 time for cluster DK.

Info for manual annotations of cluster DS:
•Start number 33 was manually annotated 1 time for cluster DS.
•Start number 47 was manually annotated 4 times for cluster DS.

Info for manual annotations of cluster DV:
•Start number 67 was manually annotated 37 times for cluster DV.

Info for manual annotations of cluster EA7:
•Start number 30 was manually annotated 1 time for cluster EA7.

Info for manual annotations of cluster EF:
•Start number 37 was manually annotated 1 time for cluster EF.
•Start number 71 was manually annotated 34 times for cluster EF.
•Start number 76 was manually annotated 5 times for cluster EF.
•Start number 79 was manually annotated 1 time for cluster EF.
•Start number 81 was manually annotated 1 time for cluster EF.

Info for manual annotations of cluster EJ:
•Start number 30 was manually annotated 18 times for cluster EJ.

Info for manual annotations of cluster EN:

•Start number 75 was manually annotated 8 times for cluster EN.

Info for manual annotations of cluster FC:
•Start number 48 was manually annotated 8 times for cluster FC.
•Start number 78 was manually annotated 4 times for cluster FC.

Info for manual annotations of cluster FR:
•Start number 70 was manually annotated 3 times for cluster FR.

Info for manual annotations of cluster GD1:
•Start number 58 was manually annotated 2 times for cluster GD1.

Info for manual annotations of cluster GD2:
•Start number 58 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:
•Start number 58 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster GD4:
•Start number 58 was manually annotated 1 time for cluster GD4.

Info for manual annotations of cluster H1:
•Start number 44 was manually annotated 1 time for cluster H1.
•Start number 50 was manually annotated 8 times for cluster H1.

Info for manual annotations of cluster H2:
•Start number 67 was manually annotated 2 times for cluster H2.

Info for manual annotations of cluster R:
•Start number 67 was manually annotated 9 times for cluster R.

Info for manual annotations of cluster U:
•Start number 59 was manually annotated 3 times for cluster U.

Gene Information:

Gene: A3Wally_113 Start: 77350, Stop: 76415, Start Num: 58
Candidate Starts for A3Wally_113:
(Start: 58 @77350 has 17 MA's), (63, 77341), (97, 77233), (122, 77143), (143, 77092), (150, 77065), (153, 77053), (169, 76969), (180, 76963), (197, 76924), (227, 76807), (243, 76756), (306, 76624), (307, 76621), (309, 76615), (320, 76576), (336, 76510), (343, 76483),

Gene: Adjutor_56 Start: 43047, Stop: 44225, Start Num: 60
Candidate Starts for Adjutor_56:
(8, 42765), (11, 42795), (19, 42858), (Start: 60 @43047 has 26 MA's), (Start: 85 @43095 has 3 MA's), (91, 43134), (94, 43146), (118, 43245), (138, 43308), (153, 43362), (164, 43410), (188, 43476), (223, 43590), (229, 43617), (236, 43647), (249, 43692), (323, 43926), (337, 43992), (340, 44001), (343, 44010), (369, 44136), (382, 44217),

Gene: Aesir_42 Start: 28494, Stop: 29621, Start Num: 71

Candidate Starts for Aesir_42:
(4, 28101), (7, 28182), (Start: 71 @28494 has 34 MA's), (Start: 81 @28515 has 3 MA's), (134, 28725), (153, 28788), (173, 28884), (205, 28989), (249, 29139), (307, 29307), (327, 29373), (357, 29514), (367, 29571),

Gene: Agamotto_37 Start: 27336, Stop: 26395, Start Num: 70
Candidate Starts for Agamotto_37:
(Start: 70 @27336 has 13 MA's), (123, 27135), (153, 27027), (217, 26820), (224, 26799), (246, 26733), (249, 26721), (301, 26628), (318, 26571), (334, 26508), (335, 26499), (349, 26445),

Gene: Aikoy_74 Start: 50610, Stop: 51827, Start Num: 60
Candidate Starts for Aikoy_74:
(Start: 60 @50610 has 26 MA's), (Start: 81 @50637 has 3 MA's), (90, 50691), (96, 50736), (110, 50802), (114, 50814), (132, 50874), (141, 50904), (142, 50907), (150, 50934), (156, 50961), (190, 51090), (218, 51210), (221, 51216), (245, 51306), (254, 51348), (259, 51366), (262, 51384), (296, 51447), (323, 51531), (340, 51606), (342, 51612), (343, 51615), (357, 51684), (360, 51693), (368, 51738), (376, 51795),

Gene: Ajin_46 Start: 29709, Stop: 30806, Start Num: 76
Candidate Starts for Ajin_46:
(Start: 37 @29655 has 1 MA's), (Start: 76 @29709 has 5 MA's), (Start: 79 @29712 has 1 MA's), (Start: 81 @29718 has 3 MA's), (134, 29928), (135, 29934), (150, 29979), (153, 29991), (168, 30054), (173, 30087), (205, 30192), (252, 30354), (307, 30489), (316, 30513), (360, 30705), (367, 30753),

Gene: Albanese_42 Start: 28164, Stop: 29111, Start Num: 67
Candidate Starts for Albanese_42:
(Start: 67 @28164 has 140 MA's), (107, 28311), (111, 28329), (116, 28353), (138, 28428), (161, 28509), (163, 28524), (167, 28536), (214, 28686), (242, 28755), (243, 28758), (326, 28992), (335, 29037), (336, 29040), (343, 29067), (344, 29070),

Gene: Aledel_39 Start: 27504, Stop: 28451, Start Num: 73
Candidate Starts for Aledel_39:
(Start: 73 @27504 has 17 MA's), (88, 27570), (111, 27669), (116, 27693), (137, 27759), (151, 27807), (156, 27831), (163, 27861), (168, 27879), (169, 27891), (192, 27933), (234, 28071), (242, 28092), (243, 28095), (317, 28302), (335, 28377), (336, 28380), (343, 28407), (344, 28410),

Gene: Alephilan_66 Start: 44039, Stop: 45202, Start Num: 67
Candidate Starts for Alephilan_66:
(Start: 67 @44039 has 140 MA's), (Start: 80 @44054 has 1 MA's), (106, 44183), (131, 44273), (134, 44276), (143, 44312), (153, 44345), (190, 44459), (198, 44486), (205, 44525), (206, 44540), (209, 44549), (221, 44570), (229, 44600), (233, 44615), (236, 44630), (249, 44675), (250, 44678), (264, 44753), (271, 44774), (295, 44813), (327, 44915), (337, 44969), (340, 44978), (343, 44987), (348, 45011), (366, 45104),

Gene: Alove_42 Start: 27509, Stop: 28522, Start Num: 30
Candidate Starts for Alove_42:
(Start: 30 @27509 has 19 MA's), (88, 27638), (107, 27719), (125, 27788), (153, 27872), (179, 27956), (198, 28007), (214, 28076), (215, 28079), (252, 28181), (253, 28187), (274, 28271), (291, 28286), (306, 28337), (320, 28385), (335, 28448),

Gene: Alyssamiracle_68 Start: 43081, Stop: 44298, Start Num: 67
Candidate Starts for Alyssamiracle_68:

(Start: 67 @43081 has 140 MA's), (Start: 80 @43096 has 1 MA's), (106, 43225), (131, 43315), (134, 43318), (143, 43354), (153, 43387), (190, 43501), (198, 43528), (205, 43567), (206, 43582), (221, 43612), (229, 43642), (236, 43672), (250, 43720), (295, 43909), (337, 44065), (340, 44074), (343, 44083), (348, 44107), (360, 44161), (366, 44200), (382, 44290),

Gene: Anakin_43 Start: 28820, Stop: 29974, Start Num: 71
Candidate Starts for Anakin_43:
(4, 28421), (Start: 71 @28820 has 34 MA's), (Start: 81 @28841 has 3 MA's), (93, 28910), (134, 29051), (153, 29114), (173, 29210), (205, 29315), (249, 29465), (267, 29555), (284, 29591), (295, 29621), (327, 29726), (338, 29783), (357, 29867), (367, 29924),

Gene: AnnaSerena_43 Start: 28855, Stop: 30009, Start Num: 71
Candidate Starts for AnnaSerena_43:
(4, 28456), (Start: 71 @28855 has 34 MA's), (Start: 81 @28876 has 3 MA's), (93, 28945), (134, 29086), (153, 29149), (173, 29245), (205, 29350), (249, 29500), (267, 29590), (284, 29626), (295, 29656), (327, 29761), (338, 29818), (357, 29902), (367, 29959),

Gene: AnnabelLee_37 Start: 24525, Stop: 23593, Start Num: 70
Candidate Starts for AnnabelLee_37:
(Start: 70 @24525 has 13 MA's), (110, 24366), (127, 24321), (167, 24159), (190, 24120), (217, 24018), (224, 23997), (231, 23970), (246, 23931), (259, 23871), (301, 23826), (318, 23769), (320, 23760), (321, 23757), (334, 23706), (335, 23697), (346, 23655), (349, 23643),

Gene: Annapurna_43 Start: 28123, Stop: 29250, Start Num: 71
Candidate Starts for Annapurna_43:
(4, 27730), (6, 27796), (7, 27811), (Start: 71 @28123 has 34 MA's), (Start: 81 @28144 has 3 MA's), (101, 28240), (134, 28354), (153, 28417), (173, 28513), (205, 28618), (249, 28768), (307, 28936), (327, 29002), (338, 29059), (357, 29143), (367, 29200),

Gene: Apeppi_60 Start: 43297, Stop: 44457, Start Num: 67
Candidate Starts for Apeppi_60:
(Start: 67 @43297 has 140 MA's), (Start: 80 @43312 has 1 MA's), (106, 43441), (131, 43531), (147, 43576), (153, 43603), (198, 43744), (206, 43795), (221, 43825), (229, 43855), (250, 43933), (262, 43993), (264, 44008), (280, 44029), (295, 44068), (296, 44074), (329, 44176), (337, 44224), (340, 44233), (348, 44266), (366, 44359), (382, 44449),

Gene: Apiary_67 Start: 50069, Stop: 48903, Start Num: 67
Candidate Starts for Apiary_67:
(22, 50207), (40, 50099), (Start: 67 @50069 has 140 MA's), (119, 49871), (153, 49748), (169, 49673), (198, 49610), (202, 49583), (231, 49490), (235, 49475), (241, 49451), (249, 49424), (250, 49421), (311, 49211), (324, 49163), (340, 49094), (342, 49088), (367, 48962),

Gene: AppleCider_41 Start: 27545, Stop: 28492, Start Num: 67
Candidate Starts for AppleCider_41:
(Start: 67 @27545 has 140 MA's), (106, 27689), (107, 27692), (110, 27707), (116, 27734), (136, 27797), (139, 27812), (153, 27860), (163, 27905), (167, 27917), (171, 27941), (214, 28067), (242, 28136), (243, 28139), (297, 28283), (317, 28343), (335, 28418), (336, 28421), (343, 28448), (344, 28451),

Gene: Araceli_50 Start: 35827, Stop: 36834, Start Num: 58
Candidate Starts for Araceli_50:
(9, 35590), (24, 35740), (Start: 58 @35827 has 17 MA's), (107, 35992), (115, 36022), (121, 36058), (142, 36133), (151, 36166), (156, 36190), (169, 36250), (193, 36280), (198, 36298), (199, 36301),

(205, 36334), (215, 36370), (246, 36460), (265, 36556), (306, 36655), (310, 36667), (335, 36745), (343, 36778), (350, 36811),

Gene: Archimedes_34 Start: 31001, Stop: 30105, Start Num: 80
Candidate Starts for Archimedes_34:
(21, 31136), (25, 31091), (Start: 27 @31085 has 1 MA's), (28, 31076), (53, 31007), (56, 31004), (Start: 80 @31001 has 1 MA's), (106, 30872), (107, 30869), (120, 30821), (153, 30728), (165, 30677), (171, 30647), (191, 30617), (198, 30593), (204, 30560), (234, 30476), (243, 30452), (268, 30404), (272, 30398), (335, 30227),

Gene: Arti_65 Start: 52065, Stop: 50866, Start Num: 67
Candidate Starts for Arti_65:
(Start: 67 @52065 has 140 MA's), (146, 51777), (147, 51774), (152, 51753), (153, 51747), (229, 51474), (232, 51462), (236, 51444), (246, 51411), (250, 51396), (267, 51309), (295, 51222), (309, 51180), (310, 51177), (327, 51120), (338, 51063), (339, 51060), (340, 51057), (343, 51048), (364, 50940), (370, 50916),

Gene: Artiphact_43 Start: 28844, Stop: 29998, Start Num: 71
Candidate Starts for Artiphact_43:
(4, 28445), (Start: 71 @28844 has 34 MA's), (Start: 81 @28865 has 3 MA's), (93, 28934), (134, 29075), (153, 29138), (173, 29234), (205, 29339), (249, 29489), (267, 29579), (284, 29615), (295, 29645), (327, 29750), (338, 29807), (357, 29891), (367, 29948),

Gene: Artu_95 Start: 79854, Stop: 80825, Start Num: 48
Candidate Starts for Artu_95:
(Start: 48 @79854 has 9 MA's), (Start: 60 @79878 has 26 MA's), (Start: 78 @79899 has 4 MA's), (93, 79974), (102, 80013), (153, 80187), (156, 80202), (164, 80244), (171, 80277), (192, 80304), (193, 80307), (199, 80328), (210, 80391), (222, 80412), (225, 80427), (228, 80439), (301, 80604), (307, 80625), (334, 80724), (335, 80733), (343, 80763),

Gene: Astralis_65 Start: 42660, Stop: 43877, Start Num: 67
Candidate Starts for Astralis_65:
(Start: 67 @42660 has 140 MA's), (Start: 80 @42675 has 1 MA's), (106, 42804), (131, 42894), (134, 42897), (143, 42933), (153, 42966), (190, 43080), (198, 43107), (205, 43146), (206, 43161), (221, 43191), (229, 43221), (236, 43251), (250, 43299), (295, 43488), (337, 43644), (340, 43653), (343, 43662), (348, 43686), (360, 43740), (366, 43779), (382, 43869),

Gene: Atuin_97 Start: 83319, Stop: 84290, Start Num: 48
Candidate Starts for Atuin_97:
(Start: 48 @83319 has 9 MA's), (Start: 60 @83343 has 26 MA's), (Start: 78 @83364 has 4 MA's), (102, 83478), (153, 83652), (156, 83667), (171, 83742), (192, 83769), (193, 83772), (197, 83787), (210, 83856), (222, 83877), (225, 83892), (228, 83904), (259, 84024), (263, 84045), (301, 84069), (307, 84090), (334, 84189), (335, 84198),

Gene: Audell_36 Start: 26923, Stop: 25982, Start Num: 70
Candidate Starts for Audell_36:
(Start: 70 @26923 has 13 MA's), (153, 26614), (217, 26407), (224, 26386), (246, 26320), (249, 26308), (301, 26215), (318, 26158), (334, 26095), (335, 26086), (346, 26044), (349, 26032),

Gene: AustinPowers_39 Start: 27502, Stop: 28449, Start Num: 73
Candidate Starts for AustinPowers_39:
(Start: 73 @27502 has 17 MA's), (88, 27568), (111, 27667), (116, 27691), (137, 27757), (151, 27805), (156, 27829), (163, 27859), (168, 27877), (169, 27889), (192, 27931), (234, 28069), (242, 28090),

(243, 28093), (317, 28300), (335, 28375), (336, 28378), (343, 28405), (344, 28408),

Gene: Avian_63 Start: 42809, Stop: 44026, Start Num: 67
Candidate Starts for Avian_63:
(Start: 67 @42809 has 140 MA's), (Start: 80 @42824 has 1 MA's), (106, 42953), (131, 43043), (134, 43046), (143, 43082), (153, 43115), (190, 43229), (198, 43256), (205, 43295), (206, 43310), (221, 43340), (229, 43370), (236, 43400), (250, 43448), (295, 43637), (337, 43793), (340, 43802), (343, 43811), (348, 43835), (360, 43889), (366, 43928), (382, 44018),

Gene: AyoTeo_44 Start: 27806, Stop: 28819, Start Num: 30
Candidate Starts for AyoTeo_44:
(Start: 30 @27806 has 19 MA's), (88, 27935), (107, 28016), (125, 28085), (153, 28169), (179, 28253), (198, 28304), (214, 28373), (215, 28376), (252, 28478), (253, 28484), (274, 28568), (291, 28583), (306, 28634), (320, 28682), (335, 28745),

Gene: Barnyard_72 Start: 49524, Stop: 50783, Start Num: 67
Candidate Starts for Barnyard_72:
(41, 49479), (43, 49482), (45, 49488), (Start: 67 @49524 has 140 MA's), (Start: 81 @49542 has 3 MA's), (94, 49614), (106, 49668), (150, 49833), (153, 49845), (164, 49899), (166, 49905), (192, 50010), (197, 50028), (205, 50073), (236, 50181), (268, 50316), (273, 50325), (281, 50358), (283, 50364), (286, 50370), (311, 50442), (340, 50559), (378, 50751), (382, 50775),

Gene: Beckerton_66 Start: 50602, Stop: 51891, Start Num: 50
Candidate Starts for Beckerton_66:
(34, 50563), (Start: 44 @50587 has 1 MA's), (Start: 50 @50602 has 10 MA's), (92, 50716), (96, 50734), (105, 50776), (152, 50950), (153, 50956), (164, 51007), (192, 51121), (197, 51139), (198, 51142), (200, 51157), (205, 51178), (243, 51310), (245, 51316), (285, 51454), (303, 51499), (311, 51517), (327, 51571), (339, 51631), (348, 51667), (367, 51763),

Gene: Beethoven_41 Start: 27476, Stop: 28423, Start Num: 67
Candidate Starts for Beethoven_41:
(Start: 67 @27476 has 140 MA's), (89, 27545), (103, 27608), (106, 27620), (107, 27623), (113, 27647), (139, 27743), (153, 27791), (161, 27821), (167, 27848), (196, 27920), (243, 28070), (246, 28079), (272, 28166), (297, 28214), (317, 28274), (335, 28349), (336, 28352), (343, 28379), (344, 28382),

Gene: Bennie_39 Start: 26287, Stop: 27234, Start Num: 67
Candidate Starts for Bennie_39:
(Start: 67 @26287 has 140 MA's), (103, 26419), (106, 26431), (107, 26434), (113, 26458), (139, 26554), (153, 26602), (167, 26659), (196, 26731), (198, 26740), (243, 26881), (246, 26890), (272, 26977), (317, 27085), (335, 27160), (336, 27163), (343, 27190), (344, 27193),

Gene: Benry_42 Start: 26004, Stop: 27011, Start Num: 30
Candidate Starts for Benry_42:
(Start: 30 @26004 has 19 MA's), (88, 26133), (107, 26214), (153, 26361), (215, 26568), (222, 26580), (245, 26643), (252, 26670), (253, 26676), (274, 26760), (291, 26775), (335, 26937),

Gene: Beyoncage_54 Start: 40427, Stop: 41632, Start Num: 36
Candidate Starts for Beyoncage_54:
(Start: 36 @40427 has 4 MA's), (Start: 67 @40487 has 140 MA's), (Start: 73 @40496 has 17 MA's), (107, 40634), (113, 40658), (156, 40811), (164, 40844), (245, 41090), (246, 41093), (247, 41099), (251, 41114), (295, 41234), (311, 41282), (319, 41312), (321, 41318), (330, 41348), (336, 41381), (340, 41399), (342, 41405), (360, 41486), (365, 41516), (367, 41528), (378, 41591),

Gene: BiPauneto_69 Start: 51654, Stop: 50455, Start Num: 72
Candidate Starts for BiPauneto_69:
(Start: 72 @51654 has 7 MA's), (Start: 128 @51435 has 1 MA's), (136, 51411), (145, 51375), (146, 51372), (147, 51369), (153, 51342), (157, 51324), (169, 51267), (229, 51069), (232, 51057), (250, 50991), (255, 50964), (267, 50904), (295, 50811), (300, 50796), (310, 50766), (311, 50763), (316, 50751), (327, 50709), (340, 50646), (343, 50637), (363, 50535), (364, 50529), (370, 50505),

Gene: Big4_102 Start: 76433, Stop: 75498, Start Num: 58
Candidate Starts for Big4_102:
(Start: 58 @76433 has 17 MA's), (93, 76331), (94, 76328), (97, 76316), (104, 76280), (122, 76226), (143, 76175), (150, 76148), (153, 76136), (169, 76052), (180, 76046), (190, 76031), (197, 76007), (206, 75953), (227, 75890), (306, 75707), (307, 75704), (320, 75659), (336, 75593), (343, 75566),

Gene: BigMack_39 Start: 26387, Stop: 27334, Start Num: 67
Candidate Starts for BigMack_39:
(Start: 67 @26387 has 140 MA's), (87, 26444), (89, 26456), (103, 26519), (106, 26531), (107, 26534), (113, 26558), (139, 26654), (153, 26702), (161, 26732), (167, 26759), (196, 26831), (243, 26981), (246, 26990), (272, 27077), (297, 27125), (317, 27185), (335, 27260), (336, 27263), (343, 27290), (344, 27293),

Gene: BigMama_55 Start: 43123, Stop: 44301, Start Num: 60
Candidate Starts for BigMama_55:
(8, 42841), (11, 42871), (19, 42934), (Start: 60 @43123 has 26 MA's), (Start: 85 @43171 has 3 MA's), (91, 43210), (94, 43222), (118, 43321), (138, 43384), (153, 43438), (164, 43486), (188, 43552), (223, 43666), (229, 43693), (236, 43723), (249, 43768), (323, 44002), (337, 44068), (340, 44077), (343, 44086), (369, 44212), (382, 44293),

Gene: BirthdayBoy_67 Start: 44385, Stop: 45602, Start Num: 67
Candidate Starts for BirthdayBoy_67:
(Start: 67 @44385 has 140 MA's), (Start: 80 @44400 has 1 MA's), (106, 44529), (131, 44619), (134, 44622), (143, 44658), (153, 44691), (190, 44805), (198, 44832), (205, 44871), (206, 44886), (221, 44916), (229, 44946), (236, 44976), (250, 45024), (327, 45315), (337, 45369), (340, 45378), (343, 45387), (348, 45411), (366, 45504), (382, 45594),

Gene: BiteSize_54 Start: 40513, Stop: 41718, Start Num: 36
Candidate Starts for BiteSize_54:
(Start: 36 @40513 has 4 MA's), (Start: 67 @40573 has 140 MA's), (Start: 73 @40582 has 17 MA's), (107, 40720), (113, 40744), (156, 40897), (164, 40930), (245, 41176), (246, 41179), (247, 41185), (251, 41200), (295, 41320), (311, 41368), (319, 41398), (321, 41404), (330, 41434), (336, 41467), (340, 41485), (342, 41491), (360, 41572), (365, 41602), (367, 41614), (378, 41677),

Gene: Bloom_107 Start: 83495, Stop: 84466, Start Num: 48
Candidate Starts for Bloom_107:
(Start: 48 @83495 has 9 MA's), (Start: 60 @83519 has 26 MA's), (Start: 78 @83540 has 4 MA's), (100, 83639), (102, 83654), (107, 83678), (119, 83711), (153, 83828), (156, 83843), (190, 83939), (193, 83948), (222, 84053), (225, 84068), (227, 84077), (249, 84152), (258, 84194), (301, 84245), (307, 84266), (335, 84374), (343, 84404),

Gene: BlueNGold_164 Start: 94575, Stop: 93583, Start Num: 47
Candidate Starts for BlueNGold_164:
(Start: 36 @94599 has 4 MA's), (Start: 47 @94575 has 5 MA's), (88, 94473), (104, 94401), (153, 94248), (171, 94158), (207, 94050), (212, 94041), (224, 94011), (225, 94008), (227, 93999), (239, 93954), (246, 93930), (263, 93849), (300, 93828), (313, 93786), (335, 93699), (336, 93696), (343,

93669), (356, 93606), (357, 93603),

Gene: BobtimousPrime_67 Start: 50832, Stop: 52193, Start Num: 34
Candidate Starts for BobtimousPrime_67:
(34, 50832), (Start: 44 @50856 has 1 MA's), (Start: 50 @50871 has 10 MA's), (92, 50985), (94, 50994), (96, 51003), (105, 51045), (152, 51219), (153, 51225), (164, 51276), (192, 51423), (197, 51441), (198, 51444), (200, 51459), (205, 51480), (243, 51612), (245, 51618), (303, 51801), (311, 51819), (327, 51873), (339, 51933), (348, 51969), (367, 52065),

Gene: Bodacious_39 Start: 26343, Stop: 27293, Start Num: 67
Candidate Starts for Bodacious_39:
(Start: 67 @26343 has 140 MA's), (83, 26376), (89, 26412), (103, 26475), (106, 26487), (107, 26490), (113, 26514), (139, 26610), (153, 26658), (156, 26673), (167, 26715), (171, 26739), (196, 26787), (234, 26913), (242, 26937), (243, 26940), (246, 26949), (297, 27084), (317, 27144), (335, 27219), (336, 27222), (343, 27249), (344, 27252),

Gene: Bogota_51 Start: 36181, Stop: 37179, Start Num: 58
Candidate Starts for Bogota_51:
(3, 35788), (9, 35944), (20, 36022), (Start: 55 @36175 has 1 MA's), (Start: 58 @36181 has 17 MA's), (107, 36346), (113, 36370), (142, 36478), (151, 36511), (156, 36535), (169, 36595), (193, 36625), (195, 36631), (198, 36643), (199, 36646), (202, 36670), (205, 36679), (215, 36715), (246, 36805), (265, 36901), (306, 37000), (310, 37012), (350, 37156),

Gene: Bonum_70 Start: 52948, Stop: 51740, Start Num: 70
Candidate Starts for Bonum_70:
(Start: 70 @52948 has 13 MA's), (Start: 128 @52726 has 1 MA's), (136, 52702), (139, 52687), (146, 52663), (147, 52660), (153, 52633), (169, 52558), (202, 52441), (232, 52345), (250, 52279), (275, 52168), (289, 52120), (295, 52099), (309, 52057), (316, 52039), (327, 51997), (337, 51943), (340, 51934), (343, 51925), (364, 51817),

Gene: BooTeria_99 Start: 80012, Stop: 80938, Start Num: 78
Candidate Starts for BooTeria_99:
(Start: 60 @79991 has 26 MA's), (Start: 78 @80012 has 4 MA's), (93, 80087), (102, 80126), (153, 80300), (156, 80315), (171, 80390), (192, 80417), (193, 80420), (199, 80441), (210, 80504), (222, 80525), (225, 80540), (228, 80552), (301, 80717), (307, 80738), (334, 80837), (335, 80846), (343, 80876),

Gene: Boopy_167 Start: 94586, Stop: 93594, Start Num: 47
Candidate Starts for Boopy_167:
(Start: 36 @94610 has 4 MA's), (Start: 47 @94586 has 5 MA's), (88, 94484), (104, 94412), (153, 94259), (171, 94169), (207, 94061), (212, 94052), (224, 94022), (225, 94019), (227, 94010), (239, 93965), (246, 93941), (263, 93860), (300, 93839), (313, 93797), (335, 93710), (336, 93707), (343, 93680), (356, 93617), (357, 93614),

Gene: Bramble_46 Start: 29758, Stop: 30855, Start Num: 76
Candidate Starts for Bramble_46:
(Start: 37 @29704 has 1 MA's), (Start: 76 @29758 has 5 MA's), (Start: 79 @29761 has 1 MA's), (Start: 81 @29767 has 3 MA's), (134, 29977), (135, 29983), (150, 30028), (153, 30040), (168, 30103), (173, 30136), (205, 30241), (252, 30403), (307, 30538), (316, 30562), (360, 30754), (367, 30802),

Gene: Braxoaddie_67 Start: 50055, Stop: 48892, Start Num: 67
Candidate Starts for Braxoaddie_67:

(22, 50193), (40, 50085), (Start: 67 @50055 has 140 MA's), (119, 49857), (153, 49734), (155, 49722), (198, 49596), (202, 49569), (250, 49407), (288, 49263), (303, 49224), (311, 49200), (340, 49083), (342, 49077), (367, 48951),

Gene: BrotherBLo_41 Start: 27508, Stop: 28455, Start Num: 67
Candidate Starts for BrotherBLo_41:
(Start: 67 @27508 has 140 MA's), (89, 27577), (103, 27640), (106, 27652), (107, 27655), (113, 27679), (139, 27775), (153, 27823), (161, 27853), (167, 27880), (196, 27952), (243, 28102), (246, 28111), (272, 28198), (297, 28246), (317, 28306), (335, 28381), (336, 28384), (343, 28411), (344, 28414),

Gene: Buggaboo_68 Start: 53499, Stop: 52291, Start Num: 70
Candidate Starts for Buggaboo_68:
(Start: 70 @53499 has 13 MA's), (Start: 128 @53277 has 1 MA's), (136, 53253), (146, 53214), (147, 53211), (153, 53184), (157, 53166), (169, 53109), (232, 52896), (250, 52830), (275, 52719), (289, 52671), (316, 52590), (327, 52548), (337, 52494), (340, 52485), (343, 52476), (364, 52368),

Gene: Butterscotch_56 Start: 43107, Stop: 44285, Start Num: 60
Candidate Starts for Butterscotch_56:
(8, 42825), (11, 42855), (19, 42918), (Start: 60 @43107 has 26 MA's), (Start: 85 @43155 has 3 MA's), (91, 43194), (94, 43206), (118, 43305), (138, 43368), (153, 43422), (164, 43470), (188, 43536), (223, 43650), (229, 43677), (236, 43707), (249, 43752), (323, 43986), (337, 44052), (340, 44061), (343, 44070), (369, 44196), (382, 44277),

Gene: C3PO_69 Start: 50533, Stop: 49421, Start Num: 75
Candidate Starts for C3PO_69:
(Start: 75 @50533 has 8 MA's), (105, 50398), (119, 50347), (138, 50284), (153, 50233), (162, 50191), (169, 50158), (193, 50095), (196, 50086), (198, 50077), (205, 50041), (221, 49987), (264, 49804), (335, 49615), (340, 49594), (347, 49564), (361, 49492), (365, 49477), (366, 49468),

Gene: CallieOMalley_41 Start: 27545, Stop: 28492, Start Num: 67
Candidate Starts for CallieOMalley_41:
(Start: 67 @27545 has 140 MA's), (106, 27689), (107, 27692), (110, 27707), (116, 27734), (136, 27797), (139, 27812), (153, 27860), (163, 27905), (167, 27917), (171, 27941), (214, 28067), (242, 28136), (243, 28139), (297, 28283), (317, 28343), (335, 28418), (336, 28421), (343, 28448), (344, 28451),

Gene: Candle_67 Start: 51720, Stop: 52889, Start Num: 67
Candidate Starts for Candle_67:
(Start: 67 @51720 has 140 MA's), (Start: 80 @51735 has 1 MA's), (87, 51777), (94, 51810), (149, 52011), (153, 52026), (190, 52158), (205, 52221), (206, 52236), (236, 52326), (244, 52353), (307, 52554), (309, 52560), (311, 52566), (338, 52677), (340, 52683), (367, 52815), (377, 52875),

Gene: Canowicakte_41 Start: 27580, Stop: 28527, Start Num: 67
Candidate Starts for Canowicakte_41:
(Start: 67 @27580 has 140 MA's), (106, 27724), (107, 27727), (110, 27742), (116, 27769), (136, 27832), (139, 27847), (153, 27895), (163, 27940), (167, 27952), (171, 27976), (214, 28102), (242, 28171), (243, 28174), (297, 28318), (317, 28378), (335, 28453), (336, 28456), (343, 28483), (344, 28486),

Gene: CardboardBox_38 Start: 24528, Stop: 23596, Start Num: 70
Candidate Starts for CardboardBox_38:
(Start: 70 @24528 has 13 MA's), (110, 24369), (127, 24324), (167, 24162), (190, 24123), (217, 24021), (224, 24000), (231, 23973), (246, 23934), (259, 23874), (301, 23829), (318, 23772), (320, 23763),

(321, 23760), (334, 23709), (335, 23700), (346, 23658), (349, 23646),

Gene: Carpal_41 Start: 27488, Stop: 28435, Start Num: 67
Candidate Starts for Carpal_41:
(Start: 67 @27488 has 140 MA's), (89, 27557), (103, 27620), (106, 27632), (107, 27635), (113, 27659), (139, 27755), (153, 27803), (161, 27833), (167, 27860), (196, 27932), (243, 28082), (246, 28091), (272, 28178), (297, 28226), (317, 28286), (335, 28361), (336, 28364), (343, 28391), (344, 28394),

Gene: Cborch11_69 Start: 50121, Stop: 51410, Start Num: 50
Candidate Starts for Cborch11_69:
(34, 50082), (Start: 44 @50106 has 1 MA's), (Start: 50 @50121 has 10 MA's), (92, 50235), (94, 50244), (96, 50253), (105, 50295), (152, 50469), (153, 50475), (164, 50526), (192, 50640), (197, 50658), (198, 50661), (200, 50676), (205, 50697), (243, 50829), (245, 50835), (303, 51018), (311, 51036), (321, 51072), (327, 51090), (339, 51150), (348, 51186), (367, 51282),

Gene: Cece_96 Start: 79474, Stop: 78539, Start Num: 58
Candidate Starts for Cece_96:
(Start: 58 @79474 has 17 MA's), (63, 79465), (89, 79390), (101, 79339), (119, 79279), (143, 79216), (150, 79189), (153, 79177), (169, 79093), (180, 79087), (181, 79084), (190, 79072), (197, 79048), (206, 78994), (225, 78940), (227, 78931), (228, 78928), (306, 78748), (307, 78745), (309, 78739), (320, 78700), (335, 78637), (336, 78634),

Gene: ChamoyPickle_39 Start: 25068, Stop: 24136, Start Num: 70
Candidate Starts for ChamoyPickle_39:
(Start: 70 @25068 has 13 MA's), (110, 24909), (127, 24864), (167, 24702), (190, 24663), (217, 24561), (224, 24540), (231, 24513), (246, 24474), (259, 24414), (301, 24369), (318, 24312), (320, 24303), (321, 24300), (334, 24249), (335, 24240), (346, 24198), (349, 24186),

Gene: Charminar_65 Start: 42419, Stop: 43636, Start Num: 67
Candidate Starts for Charminar_65:
(Start: 67 @42419 has 140 MA's), (Start: 80 @42434 has 1 MA's), (106, 42563), (131, 42653), (134, 42656), (143, 42692), (153, 42725), (190, 42839), (198, 42866), (205, 42905), (206, 42920), (221, 42950), (229, 42980), (236, 43010), (250, 43058), (295, 43247), (337, 43403), (340, 43412), (343, 43421), (348, 43445), (360, 43499), (366, 43538), (382, 43628),

Gene: ChewChew_39 Start: 26335, Stop: 27285, Start Num: 67
Candidate Starts for ChewChew_39:
(Start: 67 @26335 has 140 MA's), (103, 26467), (106, 26479), (107, 26482), (113, 26506), (139, 26602), (153, 26650), (167, 26707), (171, 26731), (194, 26773), (196, 26779), (234, 26905), (242, 26929), (243, 26932), (246, 26941), (297, 27076), (317, 27136), (335, 27211), (343, 27241), (344, 27244),

Gene: ChewyVIII_80 Start: 59181, Stop: 57982, Start Num: 47
Candidate Starts for ChewyVIII_80:
(17, 59355), (Start: 47 @59181 has 5 MA's), (64, 59148), (90, 59064), (144, 58863), (152, 58842), (153, 58836), (155, 58824), (169, 58761), (195, 58707), (198, 58695), (204, 58662), (221, 58614), (266, 58422), (300, 58314), (302, 58308), (327, 58227), (353, 58095), (356, 58089), (357, 58086), (374, 57990),

Gene: Chill_59 Start: 43170, Stop: 44348, Start Num: 60
Candidate Starts for Chill_59:
(8, 42888), (11, 42918), (19, 42981), (Start: 60 @43170 has 26 MA's), (Start: 85 @43218 has 3 MA's), (91, 43257), (94, 43269), (118, 43368), (138, 43431), (153, 43485), (164, 43533), (188, 43599), (223,

43713), (229, 43740), (236, 43770), (249, 43815), (323, 44049), (337, 44115), (340, 44124), (343, 44133), (369, 44259), (382, 44340),

Gene: Chilliams_102 Start: 76293, Stop: 77267, Start Num: 48
Candidate Starts for Chilliams_102:
(Start: 48 @76293 has 9 MA's), (Start: 60 @76317 has 26 MA's), (Start: 78 @76338 has 4 MA's), (100, 76437), (119, 76509), (153, 76626), (156, 76641), (193, 76746), (222, 76851), (225, 76866), (229, 76881), (259, 76998), (301, 77043), (307, 77064), (335, 77172), (343, 77202),

Gene: ChipsNGuac_38 Start: 24528, Stop: 23596, Start Num: 70
Candidate Starts for ChipsNGuac_38:
(Start: 70 @24528 has 13 MA's), (110, 24369), (127, 24324), (167, 24162), (190, 24123), (217, 24021), (224, 24000), (231, 23973), (246, 23934), (259, 23874), (301, 23829), (318, 23772), (320, 23763), (321, 23760), (334, 23709), (335, 23700), (346, 23658), (349, 23646),

Gene: Chivey_43 Start: 28072, Stop: 29199, Start Num: 71
Candidate Starts for Chivey_43:
(4, 27679), (6, 27745), (7, 27760), (Start: 71 @28072 has 34 MA's), (Start: 81 @28093 has 3 MA's), (101, 28189), (134, 28303), (153, 28366), (173, 28462), (205, 28567), (249, 28717), (307, 28885), (327, 28951), (338, 29008), (357, 29092), (367, 29149),

Gene: Cholula_41 Start: 27534, Stop: 28481, Start Num: 67
Candidate Starts for Cholula_41:
(Start: 67 @27534 has 140 MA's), (89, 27603), (103, 27666), (106, 27678), (107, 27681), (113, 27705), (139, 27801), (153, 27849), (161, 27879), (167, 27906), (196, 27978), (243, 28128), (246, 28137), (272, 28224), (297, 28272), (317, 28332), (335, 28407), (336, 28410), (343, 28437), (344, 28440),

Gene: Chridison_38 Start: 27433, Stop: 28383, Start Num: 73
Candidate Starts for Chridison_38:
(34, 27379), (Start: 73 @27433 has 17 MA's), (107, 27580), (111, 27598), (137, 27688), (151, 27739), (161, 27778), (163, 27793), (168, 27811), (194, 27871), (226, 27988), (242, 28027), (246, 28039), (272, 28126), (297, 28174), (317, 28234), (335, 28309), (336, 28312), (343, 28339), (344, 28342),

Gene: Christian_39 Start: 26331, Stop: 27281, Start Num: 67
Candidate Starts for Christian_39:
(Start: 67 @26331 has 140 MA's), (103, 26463), (106, 26475), (107, 26478), (113, 26502), (139, 26598), (153, 26646), (167, 26703), (171, 26727), (196, 26775), (234, 26901), (242, 26925), (243, 26928), (246, 26937), (297, 27072), (317, 27132), (335, 27207), (343, 27237), (344, 27240),

Gene: Cicada_44 Start: 27802, Stop: 28815, Start Num: 30
Candidate Starts for Cicada_44:
(Start: 30 @27802 has 19 MA's), (107, 28012), (125, 28081), (153, 28165), (167, 28222), (198, 28300), (214, 28369), (215, 28372), (245, 28447), (252, 28474), (291, 28579), (306, 28630), (320, 28678), (335, 28741),

Gene: CoffeeBean_67 Start: 50013, Stop: 48850, Start Num: 67
Candidate Starts for CoffeeBean_67:
(22, 50151), (40, 50043), (Start: 67 @50013 has 140 MA's), (119, 49815), (153, 49692), (155, 49680), (198, 49554), (202, 49527), (250, 49365), (288, 49221), (303, 49182), (311, 49158), (340, 49041), (342, 49035), (367, 48909),

Gene: Commandaria_67 Start: 53320, Stop: 52109, Start Num: 67
Candidate Starts for Commandaria_67:

(Start: 67 @53320 has 140 MA's), (114, 53140), (Start: 128 @53092 has 1 MA's), (153, 52999), (182, 52876), (187, 52867), (229, 52726), (232, 52714), (250, 52648), (310, 52420), (316, 52405), (327, 52363), (337, 52309), (339, 52303), (340, 52300), (343, 52291), (346, 52276), (364, 52183), (370, 52159),

Gene: CoolCookie_43 Start: 28850, Stop: 30004, Start Num: 71
Candidate Starts for CoolCookie_43:
(4, 28451), (Start: 71 @28850 has 34 MA's), (Start: 81 @28871 has 3 MA's), (134, 29081), (153, 29144), (173, 29240), (205, 29345), (249, 29495), (267, 29585), (284, 29621), (295, 29651), (327, 29756), (338, 29813), (357, 29897), (367, 29954),

Gene: Crestdrop_43 Start: 28106, Stop: 29230, Start Num: 71
Candidate Starts for Crestdrop_43:
(4, 27713), (6, 27779), (7, 27794), (Start: 71 @28106 has 34 MA's), (Start: 81 @28127 has 3 MA's), (134, 28337), (153, 28400), (173, 28496), (205, 28601), (249, 28751), (295, 28880), (327, 28982), (357, 29123), (367, 29180),

Gene: CristinaYang_39 Start: 26331, Stop: 27281, Start Num: 67
Candidate Starts for CristinaYang_39:
(Start: 67 @26331 has 140 MA's), (103, 26463), (106, 26475), (107, 26478), (113, 26502), (139, 26598), (153, 26646), (167, 26703), (171, 26727), (194, 26769), (196, 26775), (234, 26901), (242, 26925), (243, 26928), (246, 26937), (297, 27072), (317, 27132), (335, 27207), (343, 27237), (344, 27240),

Gene: Crosby_51 Start: 35943, Stop: 36941, Start Num: 58
Candidate Starts for Crosby_51:
(9, 35706), (14, 35733), (20, 35784), (Start: 55 @35937 has 1 MA's), (Start: 58 @35943 has 17 MA's), (107, 36108), (113, 36132), (142, 36240), (151, 36273), (156, 36297), (169, 36357), (193, 36387), (195, 36393), (198, 36405), (199, 36408), (205, 36441), (215, 36477), (246, 36567), (265, 36663), (299, 36735), (310, 36774), (350, 36918),

Gene: Cruella_69 Start: 50533, Stop: 49421, Start Num: 75
Candidate Starts for Cruella_69:
(Start: 75 @50533 has 8 MA's), (105, 50398), (119, 50347), (138, 50284), (153, 50233), (162, 50191), (169, 50158), (193, 50095), (196, 50086), (198, 50077), (205, 50041), (221, 49987), (264, 49804), (335, 49615), (340, 49594), (347, 49564), (361, 49492), (365, 49477), (366, 49468),

Gene: Cuke_76 Start: 45241, Stop: 46281, Start Num: 60
Candidate Starts for Cuke_76:
(Start: 60 @45241 has 26 MA's), (Start: 67 @45250 has 140 MA's), (Start: 80 @45265 has 1 MA's), (84, 45286), (101, 45367), (Start: 129 @45475 has 1 MA's), (143, 45526), (154, 45565), (156, 45577), (167, 45619), (197, 45700), (206, 45757), (227, 45811), (236, 45847), (245, 45877), (314, 45961), (327, 46003), (340, 46066), (347, 46096), (366, 46195), (375, 46249),

Gene: Cybele_43 Start: 28820, Stop: 29974, Start Num: 71
Candidate Starts for Cybele_43:
(4, 28421), (Start: 71 @28820 has 34 MA's), (Start: 81 @28841 has 3 MA's), (134, 29051), (153, 29114), (173, 29210), (205, 29315), (249, 29465), (267, 29555), (284, 29591), (295, 29621), (327, 29726), (338, 29783), (357, 29867), (367, 29924),

Gene: Daiboju_39 Start: 27511, Stop: 28464, Start Num: 73
Candidate Starts for Daiboju_39:

(Start: 73 @27511 has 17 MA's), (87, 27568), (107, 27658), (111, 27676), (137, 27766), (151, 27817), (161, 27856), (163, 27871), (168, 27889), (169, 27901), (194, 27949), (226, 28066), (242, 28105), (246, 28117), (317, 28315), (335, 28390), (343, 28420), (344, 28423),

Gene: Dalilpop_70 Start: 54174, Stop: 52993, Start Num: 70
Candidate Starts for Dalilpop_70:
(Start: 70 @54174 has 13 MA's), (Start: 129 @53949 has 1 MA's), (137, 53925), (146, 53889), (153, 53859), (164, 53811), (187, 53748), (236, 53577), (250, 53529), (264, 53454), (267, 53442), (289, 53370), (311, 53301), (340, 53184), (343, 53175), (346, 53160), (370, 53043),

Gene: Damien_67 Start: 50083, Stop: 51372, Start Num: 50
Candidate Starts for Damien_67:
(34, 50044), (Start: 44 @50068 has 1 MA's), (Start: 50 @50083 has 10 MA's), (92, 50197), (96, 50215), (105, 50257), (152, 50431), (153, 50437), (164, 50488), (192, 50602), (197, 50620), (198, 50623), (200, 50638), (205, 50659), (243, 50791), (245, 50797), (285, 50935), (303, 50980), (311, 50998), (327, 51052), (339, 51112), (348, 51148), (367, 51244),

Gene: DannyDe_43 Start: 28078, Stop: 29205, Start Num: 71
Candidate Starts for DannyDe_43:
(4, 27685), (6, 27751), (7, 27766), (Start: 71 @28078 has 34 MA's), (Start: 81 @28099 has 3 MA's), (101, 28195), (134, 28309), (153, 28372), (173, 28468), (205, 28573), (249, 28723), (307, 28891), (327, 28957), (338, 29014), (357, 29098), (367, 29155),

Gene: Darwin_70 Start: 49774, Stop: 48662, Start Num: 75
Candidate Starts for Darwin_70:
(Start: 75 @49774 has 8 MA's), (119, 49588), (153, 49474), (162, 49432), (169, 49399), (193, 49336), (196, 49327), (198, 49318), (205, 49282), (221, 49228), (264, 49045), (335, 48856), (340, 48835), (347, 48805), (361, 48733), (365, 48718), (366, 48709),

Gene: Dauntless_42 Start: 28400, Stop: 29557, Start Num: 71
Candidate Starts for Dauntless_42:
(4, 28007), (7, 28088), (Start: 71 @28400 has 34 MA's), (Start: 81 @28421 has 3 MA's), (134, 28631), (153, 28694), (173, 28790), (205, 28895), (249, 29045), (305, 29237), (307, 29243), (327, 29309), (357, 29450), (367, 29507),

Gene: DaviePasture_65 Start: 43993, Stop: 45210, Start Num: 67
Candidate Starts for DaviePasture_65:
(Start: 67 @43993 has 140 MA's), (Start: 80 @44008 has 1 MA's), (106, 44137), (131, 44227), (134, 44230), (143, 44266), (153, 44299), (190, 44413), (198, 44440), (205, 44479), (206, 44494), (221, 44524), (229, 44554), (236, 44584), (250, 44632), (327, 44923), (337, 44977), (340, 44986), (343, 44995), (348, 45019), (366, 45112), (382, 45202),

Gene: Delton_58 Start: 43505, Stop: 44683, Start Num: 60
Candidate Starts for Delton_58:
(8, 43223), (11, 43253), (19, 43316), (Start: 60 @43505 has 26 MA's), (Start: 85 @43553 has 3 MA's), (91, 43592), (94, 43604), (118, 43703), (138, 43766), (153, 43820), (164, 43868), (188, 43934), (223, 44048), (229, 44075), (236, 44105), (249, 44150), (323, 44384), (337, 44450), (340, 44459), (343, 44468), (369, 44594), (382, 44675),

Gene: Demikore_83 Start: 52851, Stop: 54083, Start Num: 59
Candidate Starts for Demikore_83:
(Start: 59 @52851 has 3 MA's), (86, 52905), (94, 52947), (96, 52956), (103, 52989), (109, 53013), (150, 53178), (153, 53190), (171, 53271), (193, 53355), (199, 53376), (205, 53418), (245, 53556),

(256, 53607), (268, 53658), (294, 53694), (311, 53742), (327, 53796), (340, 53859), (371, 54027), (380, 54069),

Gene: Dino_42 Start: 27635, Stop: 28582, Start Num: 67
Candidate Starts for Dino_42:
(Start: 67 @27635 has 140 MA's), (103, 27767), (106, 27779), (107, 27782), (113, 27806), (139, 27902), (153, 27950), (161, 27980), (167, 28007), (196, 28079), (243, 28229), (246, 28238), (272, 28325), (297, 28373), (317, 28433), (335, 28508), (343, 28538), (344, 28541),

Gene: Djokovic_54 Start: 40486, Stop: 41631, Start Num: 67
Candidate Starts for Djokovic_54:
(Start: 36 @40426 has 4 MA's), (Start: 67 @40486 has 140 MA's), (Start: 73 @40495 has 17 MA's), (107, 40633), (113, 40657), (156, 40810), (164, 40843), (245, 41089), (246, 41092), (247, 41098), (251, 41113), (295, 41233), (311, 41281), (319, 41311), (321, 41317), (330, 41347), (336, 41380), (340, 41398), (342, 41404), (360, 41485), (365, 41515), (367, 41527), (378, 41590),

Gene: Dodo_113 Start: 77660, Stop: 76725, Start Num: 58
Candidate Starts for Dodo_113:
(Start: 58 @77660 has 17 MA's), (63, 77651), (97, 77543), (122, 77453), (143, 77402), (150, 77375), (153, 77363), (169, 77279), (180, 77273), (197, 77234), (227, 77117), (243, 77066), (306, 76934), (307, 76931), (309, 76925), (320, 76886), (336, 76820), (343, 76793),

Gene: DoobyDoo_64 Start: 43023, Stop: 44186, Start Num: 67
Candidate Starts for DoobyDoo_64:
(Start: 67 @43023 has 140 MA's), (Start: 80 @43038 has 1 MA's), (106, 43167), (131, 43257), (134, 43260), (143, 43296), (153, 43329), (190, 43443), (198, 43470), (205, 43509), (206, 43524), (221, 43554), (229, 43584), (236, 43614), (250, 43662), (295, 43797), (327, 43899), (337, 43953), (340, 43962), (343, 43971), (348, 43995), (366, 44088), (382, 44178),

Gene: DrLupo_75 Start: 50706, Stop: 51980, Start Num: 67
Candidate Starts for DrLupo_75:
(Start: 67 @50706 has 140 MA's), (Start: 80 @50730 has 1 MA's), (106, 50859), (150, 51027), (153, 51039), (164, 51093), (166, 51099), (172, 51132), (177, 51153), (183, 51177), (184, 51183), (197, 51228), (199, 51234), (203, 51267), (204, 51270), (205, 51273), (236, 51381), (268, 51516), (273, 51525), (283, 51564), (286, 51570), (298, 51600), (300, 51606), (311, 51639), (312, 51642), (327, 51693), (331, 51717), (334, 51726), (340, 51756), (367, 51885), (370, 51894), (378, 51948), (382, 51972),

Gene: DrRobert_38 Start: 26111, Stop: 27061, Start Num: 67
Candidate Starts for DrRobert_38:
(Start: 67 @26111 has 140 MA's), (89, 26180), (103, 26243), (106, 26255), (107, 26258), (110, 26273), (111, 26276), (113, 26282), (139, 26378), (153, 26426), (156, 26441), (167, 26483), (171, 26507), (192, 26543), (194, 26549), (196, 26555), (234, 26681), (242, 26705), (243, 26708), (246, 26717), (297, 26852), (317, 26912), (335, 26987), (336, 26990), (343, 27017), (344, 27020),

Gene: DreamTeam_39 Start: 26441, Stop: 27388, Start Num: 67
Candidate Starts for DreamTeam_39:
(Start: 67 @26441 has 140 MA's), (89, 26510), (103, 26573), (106, 26585), (107, 26588), (113, 26612), (139, 26708), (153, 26756), (167, 26813), (169, 26831), (192, 26873), (196, 26885), (297, 27179), (317, 27239), (335, 27314), (336, 27317), (343, 27344), (344, 27347),

Gene: Dryad_70 Start: 48069, Stop: 47071, Start Num: 65
Candidate Starts for Dryad_70:

(51, 48093), (Start: 65 @48069 has 7 MA's), (Start: 80 @48057 has 1 MA's), (93, 47985), (95, 47976), (153, 47778), (154, 47775), (198, 47619), (205, 47583), (229, 47508), (232, 47496), (249, 47433), (252, 47421), (316, 47364), (323, 47334), (333, 47292), (338, 47265), (340, 47259), (343, 47250), (357, 47178), (359, 47172),

Gene: DumpTruck_64 Start: 42784, Stop: 43998, Start Num: 67
Candidate Starts for DumpTruck_64:
(51, 42760), (Start: 67 @42784 has 140 MA's), (Start: 80 @42796 has 1 MA's), (131, 43015), (134, 43018), (147, 43060), (153, 43087), (156, 43102), (198, 43228), (206, 43282), (221, 43312), (229, 43342), (248, 43414), (268, 43513), (283, 43561), (287, 43576), (325, 43708), (337, 43765), (340, 43774), (343, 43783), (348, 43807), (366, 43900), (379, 43969), (382, 43990),

Gene: DunneganBoMo_92 Start: 79281, Stop: 80207, Start Num: 78
Candidate Starts for DunneganBoMo_92:
(Start: 60 @79260 has 26 MA's), (Start: 78 @79281 has 4 MA's), (93, 79356), (102, 79395), (153, 79569), (156, 79584), (171, 79659), (192, 79686), (193, 79689), (199, 79710), (210, 79773), (222, 79794), (225, 79809), (228, 79821), (301, 79986), (307, 80007), (334, 80106), (335, 80115), (343, 80145),

Gene: Ellewin_91 Start: 78692, Stop: 79618, Start Num: 78
Candidate Starts for Ellewin_91:
(Start: 60 @78671 has 26 MA's), (Start: 78 @78692 has 4 MA's), (93, 78767), (102, 78806), (153, 78980), (156, 78995), (171, 79070), (192, 79097), (193, 79100), (199, 79121), (210, 79184), (222, 79205), (225, 79220), (228, 79232), (301, 79397), (307, 79418), (334, 79517), (335, 79526), (343, 79556),

Gene: Emianna_66 Start: 53297, Stop: 52098, Start Num: 67
Candidate Starts for Emianna_66:
(Start: 67 @53297 has 140 MA's), (146, 53009), (147, 53006), (152, 52985), (153, 52979), (229, 52706), (232, 52694), (236, 52676), (246, 52643), (250, 52628), (267, 52541), (295, 52454), (300, 52439), (310, 52409), (311, 52406), (327, 52352), (338, 52295), (339, 52292), (340, 52289), (343, 52280), (364, 52172), (370, 52148),

Gene: Emmetator_95 Start: 79350, Stop: 80162, Start Num: 102
Candidate Starts for Emmetator_95:
(Start: 48 @79191 has 9 MA's), (Start: 60 @79215 has 26 MA's), (Start: 78 @79236 has 4 MA's), (93, 79311), (102, 79350), (153, 79524), (156, 79539), (159, 79548), (171, 79614), (192, 79641), (193, 79644), (199, 79665), (210, 79728), (222, 79749), (225, 79764), (228, 79776), (301, 79941), (307, 79962), (334, 80061), (335, 80070), (343, 80100),

Gene: Ennea_73 Start: 54279, Stop: 53080, Start Num: 57
Candidate Starts for Ennea_73:
(Start: 57 @54279 has 2 MA's), (Start: 62 @54270 has 5 MA's), (118, 54072), (145, 53979), (146, 53976), (147, 53973), (153, 53946), (157, 53928), (169, 53871), (232, 53676), (233, 53673), (236, 53658), (250, 53610), (278, 53496), (281, 53484), (295, 53436), (311, 53388), (327, 53334), (340, 53271), (343, 53262), (366, 53142),

Gene: Erasmago_104 Start: 74119, Stop: 73184, Start Num: 58
Candidate Starts for Erasmago_104:
(Start: 58 @74119 has 17 MA's), (97, 74002), (104, 73966), (122, 73912), (143, 73861), (150, 73834), (153, 73822), (169, 73738), (180, 73732), (190, 73717), (197, 73693), (206, 73639), (227, 73576), (306, 73393), (307, 73390), (320, 73345), (336, 73279), (343, 73252),

Gene: Erk16_56 Start: 43209, Stop: 44387, Start Num: 60
Candidate Starts for Erk16_56:
(8, 42927), (11, 42957), (19, 43020), (Start: 60 @43209 has 26 MA's), (Start: 85 @43257 has 3 MA's), (91, 43296), (94, 43308), (118, 43407), (138, 43470), (153, 43524), (164, 43572), (188, 43638), (223, 43752), (229, 43779), (236, 43809), (249, 43854), (323, 44088), (337, 44154), (340, 44163), (343, 44172), (369, 44298), (382, 44379),

Gene: Erudite_42 Start: 28400, Stop: 29557, Start Num: 71
Candidate Starts for Erudite_42:
(4, 28007), (7, 28088), (Start: 71 @28400 has 34 MA's), (Start: 81 @28421 has 3 MA's), (134, 28631), (153, 28694), (173, 28790), (205, 28895), (249, 29045), (305, 29237), (307, 29243), (327, 29309), (357, 29450), (367, 29507),

Gene: Erutan_65 Start: 43665, Stop: 44828, Start Num: 67
Candidate Starts for Erutan_65:
(Start: 67 @43665 has 140 MA's), (Start: 80 @43680 has 1 MA's), (106, 43809), (131, 43899), (134, 43902), (143, 43938), (153, 43971), (190, 44085), (198, 44112), (205, 44151), (206, 44166), (221, 44196), (229, 44226), (236, 44256), (250, 44304), (295, 44439), (327, 44541), (337, 44595), (340, 44604), (343, 44613), (348, 44637), (366, 44730), (382, 44820),

Gene: EstebanJulior_40 Start: 27489, Stop: 28439, Start Num: 67
Candidate Starts for EstebanJulior_40:
(Start: 67 @27489 has 140 MA's), (103, 27621), (107, 27636), (110, 27651), (113, 27660), (139, 27756), (153, 27804), (156, 27819), (167, 27861), (171, 27885), (196, 27933), (198, 27942), (234, 28059), (243, 28086), (246, 28095), (317, 28290), (320, 28302), (335, 28365), (336, 28368), (343, 28395), (344, 28398),

Gene: Eunoia_39 Start: 27504, Stop: 28451, Start Num: 73
Candidate Starts for Eunoia_39:
(Start: 73 @27504 has 17 MA's), (88, 27570), (111, 27669), (116, 27693), (137, 27759), (151, 27807), (156, 27831), (163, 27861), (168, 27879), (169, 27891), (192, 27933), (234, 28071), (242, 28092), (243, 28095), (317, 28302), (335, 28377), (336, 28380), (343, 28407), (344, 28410),

Gene: Ezurina_36 Start: 25615, Stop: 24653, Start Num: 70
Candidate Starts for Ezurina_36:
(Start: 70 @25615 has 13 MA's), (110, 25456), (124, 25420), (167, 25249), (190, 25180), (191, 25177), (203, 25123), (217, 25078), (224, 25057), (246, 24991), (259, 24931), (301, 24886), (302, 24883), (318, 24829), (320, 24820), (321, 24817), (334, 24766), (335, 24757), (346, 24715), (349, 24703),

Gene: FireCastle_42 Start: 27533, Stop: 28546, Start Num: 30
Candidate Starts for FireCastle_42:
(Start: 30 @27533 has 19 MA's), (Start: 81 @27614 has 3 MA's), (106, 27740), (107, 27743), (125, 27812), (133, 27836), (153, 27896), (156, 27911), (167, 27953), (198, 28031), (214, 28100), (215, 28103), (222, 28115), (242, 28169), (252, 28205), (253, 28211), (274, 28295), (291, 28310), (306, 28361), (320, 28409), (332, 28457), (335, 28472),

Gene: Flapper_69 Start: 53365, Stop: 52184, Start Num: 70
Candidate Starts for Flapper_69:
(Start: 70 @53365 has 13 MA's), (Start: 129 @53140 has 1 MA's), (137, 53116), (146, 53080), (153, 53050), (164, 53002), (187, 52939), (236, 52768), (250, 52720), (267, 52633), (275, 52609), (289, 52561), (311, 52492), (340, 52375), (343, 52366), (346, 52351), (370, 52234),

Gene: Float294_67 Start: 53958, Stop: 52795, Start Num: 82

Candidate Starts for Float294_67:
(Start: 82 @53958 has 2 MA's), (118, 53787), (145, 53694), (146, 53691), (147, 53688), (153, 53661), (157, 53643), (169, 53586), (232, 53391), (233, 53388), (236, 53373), (250, 53325), (278, 53211), (281, 53199), (295, 53151), (311, 53103), (327, 53049), (340, 52986), (343, 52977), (366, 52857),

Gene: FloraSnap32_103 Start: 82392, Stop: 83363, Start Num: 48
Candidate Starts for FloraSnap32_103:
(Start: 48 @82392 has 9 MA's), (Start: 60 @82416 has 26 MA's), (Start: 78 @82437 has 4 MA's), (100, 82536), (102, 82551), (107, 82575), (119, 82608), (153, 82725), (156, 82740), (190, 82836), (193, 82845), (222, 82950), (225, 82965), (227, 82974), (249, 83049), (258, 83091), (301, 83142), (307, 83163), (334, 83262), (335, 83271), (343, 83301),

Gene: Fluke_42 Start: 27751, Stop: 28698, Start Num: 67
Candidate Starts for Fluke_42:
(Start: 67 @27751 has 140 MA's), (89, 27820), (103, 27883), (106, 27895), (107, 27898), (113, 27922), (139, 28018), (153, 28066), (161, 28096), (167, 28123), (196, 28195), (243, 28345), (246, 28354), (272, 28441), (297, 28489), (317, 28549), (335, 28624), (336, 28627), (343, 28654), (344, 28657),

Gene: Forza_168 Start: 94503, Stop: 93511, Start Num: 47
Candidate Starts for Forza_168:
(Start: 36 @94527 has 4 MA's), (Start: 47 @94503 has 5 MA's), (88, 94401), (104, 94329), (153, 94176), (171, 94086), (207, 93978), (212, 93969), (224, 93939), (225, 93936), (227, 93927), (239, 93882), (246, 93858), (263, 93777), (300, 93756), (313, 93714), (335, 93627), (336, 93624), (343, 93597), (356, 93534), (357, 93531),

Gene: FountainFog_42 Start: 28114, Stop: 29241, Start Num: 71
Candidate Starts for FountainFog_42:
(Start: 71 @28114 has 34 MA's), (Start: 81 @28135 has 3 MA's), (134, 28345), (153, 28408), (173, 28504), (205, 28609), (249, 28759), (307, 28927), (327, 28993), (357, 29134), (367, 29191),

Gene: Fowlmouth_77 Start: 47770, Stop: 48810, Start Num: 60
Candidate Starts for Fowlmouth_77:
(42, 47731), (Start: 60 @47770 has 26 MA's), (Start: 67 @47779 has 140 MA's), (Start: 80 @47794 has 1 MA's), (84, 47815), (101, 47896), (Start: 129 @48004 has 1 MA's), (143, 48055), (154, 48094), (164, 48139), (167, 48148), (202, 48262), (206, 48286), (242, 48397), (314, 48490), (327, 48532), (340, 48595), (347, 48625), (366, 48724),

Gene: Foxboro_67 Start: 53822, Stop: 52623, Start Num: 67
Candidate Starts for Foxboro_67:
(Start: 67 @53822 has 140 MA's), (146, 53534), (147, 53531), (152, 53510), (153, 53504), (229, 53231), (232, 53219), (236, 53201), (246, 53168), (250, 53153), (267, 53066), (295, 52979), (300, 52964), (310, 52934), (311, 52931), (327, 52877), (338, 52820), (339, 52817), (340, 52814), (343, 52805), (364, 52697), (370, 52673),

Gene: FreddieHg_43 Start: 28088, Stop: 29215, Start Num: 71
Candidate Starts for FreddieHg_43:
(4, 27695), (6, 27761), (7, 27776), (Start: 71 @28088 has 34 MA's), (Start: 81 @28109 has 3 MA's), (101, 28205), (134, 28319), (153, 28382), (173, 28478), (205, 28583), (249, 28733), (307, 28901), (327, 28967), (338, 29024), (357, 29108), (367, 29165),

Gene: Frizzle_31 Start: 30097, Stop: 29171, Start Num: 81
Candidate Starts for Frizzle_31:

(Start: 27 @30205 has 1 MA's), (Start: 79 @30103 has 1 MA's), (Start: 80 @30100 has 1 MA's), (Start: 81 @30097 has 3 MA's), (98, 30010), (116, 29926), (120, 29920), (134, 29893), (171, 29746), (186, 29725), (190, 29719), (196, 29701), (198, 29692), (219, 29614), (222, 29608), (238, 29566), (242, 29554), (268, 29503), (272, 29497), (338, 29308), (354, 29227), (355, 29224), (362, 29185),

Gene: FrostedClock_106 Start: 83692, Stop: 84663, Start Num: 48
Candidate Starts for FrostedClock_106:
(Start: 48 @83692 has 9 MA's), (Start: 60 @83716 has 26 MA's), (Start: 78 @83737 has 4 MA's), (100, 83836), (102, 83851), (107, 83875), (119, 83908), (153, 84025), (156, 84040), (190, 84136), (193, 84145), (222, 84250), (225, 84265), (227, 84274), (249, 84349), (258, 84391), (301, 84442), (307, 84463), (335, 84571), (343, 84601),

Gene: Fulcrum_65 Start: 43693, Stop: 44910, Start Num: 67
Candidate Starts for Fulcrum_65:
(Start: 67 @43693 has 140 MA's), (Start: 80 @43708 has 1 MA's), (106, 43837), (131, 43927), (134, 43930), (143, 43966), (153, 43999), (190, 44113), (198, 44140), (205, 44179), (206, 44194), (221, 44224), (229, 44254), (236, 44284), (248, 44326), (250, 44332), (327, 44623), (337, 44677), (340, 44686), (343, 44695), (348, 44719), (366, 44812), (382, 44902),

Gene: Fury_75 Start: 52498, Stop: 51308, Start Num: 62
Candidate Starts for Fury_75:
(5, 52828), (16, 52726), (Start: 62 @52498 has 5 MA's), (Start: 80 @52471 has 1 MA's), (99, 52378), (131, 52255), (136, 52243), (147, 52201), (153, 52174), (154, 52171), (250, 51841), (267, 51754), (295, 51661), (311, 51613), (340, 51496), (347, 51466), (359, 51409), (364, 51379), (370, 51355),

Gene: GMA2_62 Start: 65413, Stop: 64418, Start Num: 46
Candidate Starts for GMA2_62:
(46, 65413), (89, 65302), (99, 65263), (118, 65191), (153, 65080), (190, 64966), (197, 64942), (201, 64915), (204, 64906), (207, 64879), (225, 64837), (227, 64828), (246, 64762), (258, 64708), (259, 64702), (301, 64657), (310, 64627), (312, 64621), (319, 64594), (335, 64531), (336, 64528), (343, 64501), (347, 64483), (356, 64438),

Gene: GOATification_65 Start: 43693, Stop: 44910, Start Num: 67
Candidate Starts for GOATification_65:
(Start: 67 @43693 has 140 MA's), (Start: 80 @43708 has 1 MA's), (106, 43837), (131, 43927), (134, 43930), (143, 43966), (153, 43999), (190, 44113), (198, 44140), (205, 44179), (206, 44194), (221, 44224), (229, 44254), (236, 44284), (248, 44326), (250, 44332), (327, 44623), (337, 44677), (340, 44686), (343, 44695), (348, 44719), (366, 44812), (382, 44902),

Gene: GRU1_55 Start: 45213, Stop: 44032, Start Num: 70
Candidate Starts for GRU1_55:
(Start: 70 @45213 has 13 MA's), (Start: 129 @44988 has 1 MA's), (137, 44964), (146, 44928), (153, 44898), (164, 44850), (187, 44787), (236, 44616), (250, 44568), (264, 44493), (267, 44481), (289, 44409), (311, 44340), (340, 44223), (343, 44214), (346, 44199), (370, 44082),

Gene: GTE5_55 Start: 46020, Stop: 45064, Start Num: 129
Candidate Starts for GTE5_55:
(Start: 129 @46020 has 1 MA's), (131, 46011), (137, 45996), (146, 45960), (153, 45930), (164, 45882), (187, 45819), (250, 45600), (266, 45516), (267, 45513), (289, 45441), (311, 45372), (340, 45255), (343, 45246), (346, 45231), (364, 45138), (370, 45114),

Gene: GTE8_55 Start: 46534, Stop: 45335, Start Num: 67
Candidate Starts for GTE8_55:

(Start: 67 @46534 has 140 MA's), (145, 46249), (147, 46243), (152, 46222), (153, 46216), (232, 45931), (236, 45913), (246, 45880), (250, 45865), (267, 45778), (310, 45646), (311, 45643), (327, 45589), (339, 45529), (340, 45526), (343, 45517), (364, 45409), (370, 45385),

Gene: Gagieri_66 Start: 50059, Stop: 48929, Start Num: 67
Candidate Starts for Gagieri_66:
(22, 50194), (40, 50089), (Start: 67 @50059 has 140 MA's), (119, 49861), (153, 49738), (155, 49726), (198, 49600), (202, 49573), (250, 49411), (276, 49318), (308, 49246), (340, 49120), (342, 49114), (367, 48988),

Gene: Galactica_39 Start: 28326, Stop: 29291, Start Num: 49
Candidate Starts for Galactica_39:
(Start: 49 @28326 has 2 MA's), (103, 28488), (Start: 129 @28563 has 1 MA's), (152, 28626), (153, 28632), (194, 28755), (198, 28770), (199, 28773), (202, 28797), (226, 28872), (242, 28908), (270, 29025), (293, 29064), (313, 29127),

Gene: Gallia_70 Start: 54274, Stop: 53129, Start Num: 68
Candidate Starts for Gallia_70:
(68, 54274), (138, 54016), (153, 53965), (154, 53962), (250, 53587), (311, 53422), (321, 53386), (340, 53305), (365, 53188),

Gene: Genamy16_68 Start: 43067, Stop: 44284, Start Num: 67
Candidate Starts for Genamy16_68:
(Start: 67 @43067 has 140 MA's), (Start: 80 @43082 has 1 MA's), (106, 43211), (131, 43301), (134, 43304), (143, 43340), (153, 43373), (190, 43487), (198, 43514), (205, 43553), (206, 43568), (221, 43598), (229, 43628), (236, 43658), (250, 43706), (295, 43895), (337, 44051), (340, 44060), (343, 44069), (348, 44093), (360, 44147), (366, 44186), (382, 44276),

Gene: Gerri43_38 Start: 24528, Stop: 23596, Start Num: 70
Candidate Starts for Gerri43_38:
(Start: 70 @24528 has 13 MA's), (110, 24369), (127, 24324), (167, 24162), (190, 24123), (217, 24021), (224, 24000), (231, 23973), (246, 23934), (259, 23874), (301, 23829), (318, 23772), (320, 23763), (321, 23760), (334, 23709), (335, 23700), (346, 23658), (349, 23646),

Gene: Ghobes_32 Start: 30098, Stop: 29172, Start Num: 81
Candidate Starts for Ghobes_32:
(Start: 27 @30206 has 1 MA's), (Start: 79 @30104 has 1 MA's), (Start: 80 @30101 has 1 MA's), (Start: 81 @30098 has 3 MA's), (98, 30011), (116, 29927), (120, 29921), (134, 29894), (171, 29747), (186, 29726), (190, 29720), (196, 29702), (219, 29615), (222, 29609), (238, 29567), (242, 29555), (268, 29504), (272, 29498), (338, 29309), (354, 29228), (355, 29225), (362, 29186),

Gene: Gibbin_67 Start: 44498, Stop: 45715, Start Num: 67
Candidate Starts for Gibbin_67:
(Start: 67 @44498 has 140 MA's), (Start: 80 @44513 has 1 MA's), (106, 44642), (131, 44732), (134, 44735), (143, 44771), (153, 44804), (190, 44918), (198, 44945), (205, 44984), (206, 44999), (221, 45029), (229, 45059), (236, 45089), (250, 45137), (327, 45428), (337, 45482), (340, 45491), (343, 45500), (348, 45524), (366, 45617), (382, 45707),

Gene: Gibson_66 Start: 47338, Stop: 46340, Start Num: 65
Candidate Starts for Gibson_66:
(Start: 65 @47338 has 7 MA's), (Start: 80 @47326 has 1 MA's), (153, 47047), (154, 47044), (189, 46915), (198, 46888), (205, 46852), (229, 46777), (232, 46765), (249, 46702), (323, 46603), (333, 46561), (340, 46528), (343, 46519), (357, 46447), (359, 46441), (372, 46357),

Gene: Gilda_43 Start: 28844, Stop: 29998, Start Num: 71
Candidate Starts for Gilda_43:
(4, 28445), (Start: 71 @28844 has 34 MA's), (Start: 81 @28865 has 3 MA's), (134, 29075), (153, 29138), (173, 29234), (205, 29339), (249, 29489), (267, 29579), (284, 29615), (295, 29645), (327, 29750), (338, 29807), (357, 29891), (367, 29948),

Gene: Gisselle_39 Start: 26441, Stop: 27388, Start Num: 67
Candidate Starts for Gisselle_39:
(Start: 67 @26441 has 140 MA's), (89, 26510), (103, 26573), (106, 26585), (107, 26588), (113, 26612), (139, 26708), (153, 26756), (167, 26813), (169, 26831), (192, 26873), (196, 26885), (297, 27179), (317, 27239), (335, 27314), (336, 27317), (343, 27344), (344, 27347),

Gene: Giuseppe_58 Start: 43075, Stop: 44253, Start Num: 60
Candidate Starts for Giuseppe_58:
(8, 42793), (11, 42823), (19, 42886), (Start: 60 @43075 has 26 MA's), (Start: 85 @43123 has 3 MA's), (91, 43162), (94, 43174), (118, 43273), (138, 43336), (153, 43390), (164, 43438), (188, 43504), (223, 43618), (229, 43645), (236, 43675), (249, 43720), (323, 43954), (337, 44020), (340, 44029), (343, 44038), (369, 44164), (382, 44245),

Gene: Glenn_42 Start: 27742, Stop: 28689, Start Num: 67
Candidate Starts for Glenn_42:
(Start: 67 @27742 has 140 MA's), (103, 27874), (106, 27886), (107, 27889), (113, 27913), (139, 28009), (153, 28057), (161, 28087), (167, 28114), (196, 28186), (243, 28336), (246, 28345), (272, 28432), (297, 28480), (317, 28540), (335, 28615), (336, 28618), (343, 28645), (344, 28648),

Gene: GodonK_181 Start: 91029, Stop: 90010, Start Num: 39
Candidate Starts for GodonK_181:
(Start: 39 @91029 has 1 MA's), (Start: 81 @90957 has 3 MA's), (Start: 85 @90936 has 3 MA's), (93, 90888), (99, 90867), (118, 90795), (140, 90732), (150, 90696), (153, 90684), (156, 90669), (205, 90510), (212, 90477), (216, 90468), (227, 90435), (229, 90429), (240, 90390), (245, 90372), (246, 90369), (263, 90288), (300, 90267), (307, 90243), (319, 90201), (335, 90138), (336, 90135), (343, 90108), (347, 90090),

Gene: GoldenEssence_89 Start: 77287, Stop: 78258, Start Num: 48
Candidate Starts for GoldenEssence_89:
(Start: 48 @77287 has 9 MA's), (Start: 60 @77311 has 26 MA's), (Start: 78 @77332 has 4 MA's), (100, 77431), (102, 77446), (107, 77470), (119, 77503), (153, 77620), (156, 77635), (190, 77731), (193, 77740), (222, 77845), (225, 77860), (227, 77869), (249, 77944), (258, 77986), (301, 78037), (307, 78058), (334, 78157), (335, 78166), (343, 78196),

Gene: Goodman_43 Start: 27572, Stop: 28585, Start Num: 30
Candidate Starts for Goodman_43:
(23, 27527), (Start: 30 @27572 has 19 MA's), (88, 27701), (107, 27782), (125, 27851), (153, 27935), (167, 27992), (198, 28070), (214, 28139), (215, 28142), (245, 28217), (252, 28244), (253, 28250), (274, 28334), (291, 28349), (306, 28400), (320, 28448), (335, 28511),

Gene: Graynor_44 Start: 27566, Stop: 28513, Start Num: 67
Candidate Starts for Graynor_44:
(Start: 67 @27566 has 140 MA's), (106, 27710), (107, 27713), (110, 27728), (116, 27755), (136, 27818), (139, 27833), (153, 27881), (163, 27926), (167, 27938), (171, 27962), (214, 28088), (219, 28097), (242, 28157), (243, 28160), (297, 28304), (317, 28364), (335, 28439), (336, 28442), (343, 28469), (344, 28472),

Gene: GreenHearts_42 Start: 28250, Stop: 29197, Start Num: 67
Candidate Starts for GreenHearts_42:
(Start: 67 @28250 has 140 MA's), (107, 28397), (116, 28439), (135, 28499), (138, 28514), (161, 28595), (163, 28610), (167, 28622), (214, 28772), (242, 28841), (243, 28844), (326, 29078), (335, 29123), (336, 29126), (343, 29153), (344, 29156),

Gene: Greenbelt_64 Start: 43465, Stop: 42455, Start Num: 66
Candidate Starts for Greenbelt_64:
(Start: 66 @43465 has 1 MA's), (Start: 80 @43441 has 1 MA's), (113, 43288), (153, 43162), (154, 43159), (164, 43114), (198, 43003), (205, 42967), (229, 42892), (232, 42880), (249, 42817), (333, 42676), (340, 42643), (351, 42595), (357, 42562), (359, 42556), (363, 42532), (367, 42511),

Gene: Greenhouse_43 Start: 28175, Stop: 29122, Start Num: 67
Candidate Starts for Greenhouse_43:
(Start: 67 @28175 has 140 MA's), (107, 28322), (116, 28364), (138, 28439), (161, 28520), (163, 28535), (167, 28547), (214, 28697), (242, 28766), (243, 28769), (326, 29003), (335, 29048), (336, 29051), (343, 29078), (344, 29081),

Gene: GretelLyn_65 Start: 44537, Stop: 45700, Start Num: 67
Candidate Starts for GretelLyn_65:
(Start: 67 @44537 has 140 MA's), (Start: 80 @44552 has 1 MA's), (106, 44681), (131, 44771), (134, 44774), (143, 44810), (153, 44843), (190, 44957), (198, 44984), (205, 45023), (206, 45038), (221, 45068), (229, 45098), (236, 45128), (250, 45176), (264, 45251), (271, 45272), (295, 45311), (327, 45413), (337, 45467), (340, 45476), (343, 45485), (348, 45509), (366, 45602), (382, 45692),

Gene: GrootJr_68 Start: 52691, Stop: 51492, Start Num: 67
Candidate Starts for GrootJr_68:
(Start: 67 @52691 has 140 MA's), (146, 52403), (147, 52400), (152, 52379), (153, 52373), (229, 52100), (232, 52088), (236, 52070), (246, 52037), (250, 52022), (267, 51935), (295, 51848), (300, 51833), (310, 51803), (311, 51800), (327, 51746), (338, 51689), (339, 51686), (340, 51683), (343, 51674), (364, 51566), (370, 51542),

Gene: Gumball_57 Start: 43615, Stop: 44745, Start Num: 85
Candidate Starts for Gumball_57:
(35, 43522), (Start: 49 @43549 has 2 MA's), (Start: 50 @43552 has 10 MA's), (Start: 60 @43567 has 26 MA's), (Start: 85 @43615 has 3 MA's), (91, 43654), (94, 43666), (118, 43765), (138, 43828), (153, 43882), (164, 43930), (188, 43996), (223, 44110), (229, 44137), (236, 44167), (249, 44212), (323, 44446), (337, 44512), (340, 44521), (343, 44530), (369, 44656), (382, 44737),

Gene: Hager_44 Start: 28317, Stop: 29423, Start Num: 71
Candidate Starts for Hager_44:
(Start: 71 @28317 has 34 MA's), (Start: 81 @28338 has 3 MA's), (134, 28548), (150, 28599), (153, 28611), (173, 28707), (205, 28812), (249, 28962), (327, 29175), (357, 29316), (367, 29373),

Gene: Haunter_43 Start: 28275, Stop: 29381, Start Num: 71
Candidate Starts for Haunter_43:
(Start: 71 @28275 has 34 MA's), (Start: 81 @28296 has 3 MA's), (134, 28506), (153, 28569), (173, 28665), (205, 28770), (249, 28920), (327, 29133), (338, 29190), (357, 29274), (367, 29331),

Gene: Hawkeye_60 Start: 42876, Stop: 44036, Start Num: 60
Candidate Starts for Hawkeye_60:

(42, 42849), (Start: 60 @42876 has 26 MA's), (91, 42963), (118, 43074), (153, 43191), (158, 43212), (197, 43332), (227, 43440), (229, 43446), (232, 43458), (249, 43521), (279, 43638), (311, 43695), (337, 43803), (340, 43812), (342, 43818), (343, 43821),

Gene: HeadNerd_39 Start: 26287, Stop: 27234, Start Num: 67
Candidate Starts for HeadNerd_39:
(Start: 67 @26287 has 140 MA's), (103, 26419), (106, 26431), (107, 26434), (113, 26458), (139, 26554), (153, 26602), (167, 26659), (196, 26731), (243, 26881), (246, 26890), (317, 27085), (335, 27160), (336, 27163), (343, 27190), (344, 27193),

Gene: Helpful_60 Start: 43436, Stop: 44614, Start Num: 60
Candidate Starts for Helpful_60:
(8, 43154), (19, 43247), (Start: 60 @43436 has 26 MA's), (Start: 85 @43484 has 3 MA's), (91, 43523), (94, 43535), (118, 43634), (138, 43697), (153, 43751), (164, 43799), (188, 43865), (223, 43979), (229, 44006), (236, 44036), (249, 44081), (323, 44315), (337, 44381), (340, 44390), (343, 44399), (369, 44525), (382, 44606),

Gene: Henoccus_51 Start: 35844, Stop: 36851, Start Num: 58
Candidate Starts for Henoccus_51:
(9, 35607), (24, 35757), (Start: 58 @35844 has 17 MA's), (107, 36009), (115, 36039), (121, 36075), (142, 36150), (151, 36183), (156, 36207), (169, 36267), (193, 36297), (198, 36315), (199, 36318), (205, 36351), (215, 36387), (246, 36477), (265, 36573), (306, 36672), (310, 36684), (343, 36795), (350, 36828),

Gene: Herb_39 Start: 27510, Stop: 28463, Start Num: 73
Candidate Starts for Herb_39:
(Start: 73 @27510 has 17 MA's), (87, 27567), (107, 27657), (111, 27675), (137, 27765), (151, 27816), (161, 27855), (163, 27870), (168, 27888), (169, 27900), (194, 27948), (226, 28065), (242, 28104), (246, 28116), (317, 28314), (335, 28389), (343, 28419), (344, 28422),

Gene: Hiddenleaf_43 Start: 28072, Stop: 29199, Start Num: 71
Candidate Starts for Hiddenleaf_43:
(4, 27679), (6, 27745), (7, 27760), (Start: 71 @28072 has 34 MA's), (Start: 81 @28093 has 3 MA's), (101, 28189), (134, 28303), (153, 28366), (173, 28462), (205, 28567), (249, 28717), (307, 28885), (327, 28951), (338, 29008), (357, 29092), (367, 29149),

Gene: Hiyaa_41 Start: 29720, Stop: 30685, Start Num: 50
Candidate Starts for Hiyaa_41:
(Start: 50 @29720 has 10 MA's), (83, 29783), (103, 29882), (112, 29918), (Start: 129 @29957 has 1 MA's), (152, 30020), (153, 30026), (194, 30149), (199, 30167), (202, 30191), (242, 30302), (270, 30419), (293, 30458), (313, 30521),

Gene: HomeFry_72 Start: 51202, Stop: 50012, Start Num: 62
Candidate Starts for HomeFry_72:
(Start: 62 @51202 has 5 MA's), (Start: 80 @51175 has 1 MA's), (99, 51082), (131, 50959), (147, 50905), (153, 50878), (250, 50545), (267, 50458), (275, 50434), (289, 50386), (311, 50317), (340, 50200), (359, 50113), (364, 50083), (370, 50059),

Gene: Htur_43 Start: 27973, Stop: 28986, Start Num: 30
Candidate Starts for Htur_43:
(Start: 30 @27973 has 19 MA's), (107, 28183), (125, 28252), (153, 28336), (168, 28399), (198, 28471), (199, 28474), (214, 28540), (215, 28543), (252, 28645), (253, 28651), (274, 28735), (291, 28750), (306, 28801), (320, 28849), (335, 28912),

Gene: HubbaBubba_62 Start: 48109, Stop: 47129, Start Num: 128
Candidate Starts for HubbaBubba_62:
(Start: 128 @48109 has 1 MA's), (136, 48085), (146, 48046), (147, 48043), (153, 48016), (157, 47998), (169, 47941), (229, 47743), (232, 47731), (250, 47665), (255, 47638), (266, 47581), (295, 47485), (310, 47440), (311, 47437), (316, 47425), (327, 47383), (340, 47320), (343, 47311), (363, 47209), (364, 47203), (370, 47179),

Gene: Huckleberry_39 Start: 26270, Stop: 27217, Start Num: 67
Candidate Starts for Huckleberry_39:
(Start: 67 @26270 has 140 MA's), (103, 26402), (106, 26414), (107, 26417), (113, 26441), (139, 26537), (153, 26585), (167, 26642), (196, 26714), (198, 26723), (243, 26864), (246, 26873), (272, 26960), (317, 27068), (335, 27143), (336, 27146), (343, 27173), (344, 27176),

Gene: HunterDalle_39 Start: 27432, Stop: 28382, Start Num: 73
Candidate Starts for HunterDalle_39:
(34, 27378), (Start: 73 @27432 has 17 MA's), (107, 27579), (111, 27597), (137, 27687), (151, 27738), (161, 27777), (163, 27792), (168, 27810), (169, 27822), (194, 27870), (226, 27987), (242, 28026), (246, 28038), (272, 28125), (297, 28173), (317, 28233), (335, 28308), (336, 28311), (343, 28338), (344, 28341),

Gene: Huntingdon_41 Start: 27893, Stop: 28828, Start Num: 67
Candidate Starts for Huntingdon_41:
(Start: 67 @27893 has 140 MA's), (107, 28040), (111, 28058), (116, 28082), (138, 28157), (153, 28208), (161, 28238), (163, 28253), (167, 28265), (214, 28415), (242, 28484), (243, 28487), (291, 28598), (335, 28754), (336, 28757), (343, 28784), (344, 28787),

Gene: IDyn_65 Start: 49575, Stop: 48376, Start Num: 72
Candidate Starts for IDyn_65:
(54, 49602), (Start: 72 @49575 has 7 MA's), (Start: 128 @49356 has 1 MA's), (136, 49332), (146, 49293), (147, 49290), (153, 49263), (157, 49245), (169, 49188), (229, 48990), (232, 48978), (250, 48912), (255, 48885), (266, 48828), (295, 48732), (310, 48687), (311, 48684), (316, 48672), (327, 48630), (340, 48567), (343, 48558), (363, 48456), (364, 48450), (370, 48426),

Gene: Immaculata_41 Start: 27533, Stop: 28480, Start Num: 67
Candidate Starts for Immaculata_41:
(Start: 67 @27533 has 140 MA's), (89, 27602), (103, 27665), (106, 27677), (107, 27680), (113, 27704), (139, 27800), (153, 27848), (161, 27878), (167, 27905), (196, 27977), (243, 28127), (246, 28136), (272, 28223), (297, 28271), (317, 28331), (335, 28406), (336, 28409), (343, 28436), (344, 28439),

Gene: IndiRoo_43 Start: 26273, Stop: 27280, Start Num: 30
Candidate Starts for IndiRoo_43:
(Start: 30 @26273 has 19 MA's), (107, 26483), (153, 26630), (215, 26837), (245, 26912), (252, 26939), (253, 26945), (274, 27029), (291, 27044), (335, 27206),

Gene: Indlulamithi_68 Start: 48569, Stop: 49600, Start Num: 67
Candidate Starts for Indlulamithi_68:
(Start: 67 @48569 has 140 MA's), (Start: 80 @48584 has 1 MA's), (97, 48671), (101, 48686), (105, 48710), (Start: 129 @48794 has 1 MA's), (143, 48845), (156, 48896), (170, 48959), (190, 48995), (196, 49013), (197, 49019), (206, 49076), (236, 49166), (249, 49211), (261, 49250), (324, 49316), (338, 49379), (340, 49385), (347, 49415),

Gene: Intolerant_48 Start: 35879, Stop: 36877, Start Num: 58

Candidate Starts for Intolerant_48:
(3, 35486), (9, 35642), (20, 35720), (Start: 55 @35873 has 1 MA's), (Start: 58 @35879 has 17 MA's), (107, 36044), (113, 36068), (142, 36176), (151, 36209), (156, 36233), (169, 36293), (193, 36323), (195, 36329), (198, 36341), (199, 36344), (205, 36377), (215, 36413), (246, 36503), (265, 36599), (306, 36698), (310, 36710), (350, 36854),

Gene: JDawG_42 Start: 28489, Stop: 29616, Start Num: 71
Candidate Starts for JDawG_42:
(4, 28096), (7, 28177), (Start: 71 @28489 has 34 MA's), (Start: 81 @28510 has 3 MA's), (134, 28720), (153, 28783), (173, 28879), (205, 28984), (249, 29134), (307, 29302), (327, 29368), (357, 29509), (367, 29566),

Gene: JackieB_51 Start: 35683, Stop: 36690, Start Num: 58
Candidate Starts for JackieB_51:
(9, 35446), (24, 35596), (Start: 58 @35683 has 17 MA's), (107, 35848), (115, 35878), (121, 35914), (142, 35989), (151, 36022), (156, 36046), (169, 36106), (193, 36136), (198, 36154), (199, 36157), (205, 36190), (215, 36226), (246, 36316), (265, 36412), (306, 36511), (310, 36523), (335, 36601), (343, 36634), (350, 36667),

Gene: Jalebi_64 Start: 44890, Stop: 46053, Start Num: 67
Candidate Starts for Jalebi_64:
(Start: 67 @44890 has 140 MA's), (Start: 80 @44905 has 1 MA's), (106, 45034), (131, 45124), (134, 45127), (143, 45163), (153, 45196), (190, 45310), (198, 45337), (205, 45376), (206, 45391), (221, 45421), (229, 45451), (236, 45481), (250, 45529), (295, 45664), (327, 45766), (337, 45820), (340, 45829), (343, 45838), (348, 45862), (366, 45955), (382, 46045),

Gene: Jamemuya19_64 Start: 42672, Stop: 43889, Start Num: 67
Candidate Starts for Jamemuya19_64:
(Start: 67 @42672 has 140 MA's), (Start: 80 @42687 has 1 MA's), (106, 42816), (131, 42906), (134, 42909), (143, 42945), (153, 42978), (190, 43092), (198, 43119), (205, 43158), (206, 43173), (221, 43203), (229, 43233), (236, 43263), (250, 43311), (295, 43500), (337, 43656), (340, 43665), (343, 43674), (348, 43698), (360, 43752), (366, 43791), (382, 43881),

Gene: Jera_43 Start: 26765, Stop: 27778, Start Num: 30
Candidate Starts for Jera_43:
(Start: 30 @26765 has 19 MA's), (88, 26894), (107, 26975), (125, 27044), (153, 27128), (179, 27212), (198, 27263), (214, 27332), (215, 27335), (252, 27437), (253, 27443), (274, 27527), (291, 27542), (320, 27641), (335, 27704),

Gene: Jifall16_66 Start: 53318, Stop: 52119, Start Num: 67
Candidate Starts for Jifall16_66:
(Start: 67 @53318 has 140 MA's), (146, 53030), (147, 53027), (152, 53006), (153, 53000), (229, 52727), (232, 52715), (236, 52697), (246, 52664), (250, 52649), (267, 52562), (295, 52475), (300, 52460), (310, 52430), (311, 52427), (327, 52373), (338, 52316), (339, 52313), (340, 52310), (343, 52301), (364, 52193), (370, 52169),

Gene: JingleBells_43 Start: 28193, Stop: 29350, Start Num: 71
Candidate Starts for JingleBells_43:
(4, 27800), (7, 27881), (Start: 71 @28193 has 34 MA's), (Start: 81 @28214 has 3 MA's), (134, 28424), (153, 28487), (173, 28583), (205, 28688), (249, 28838), (305, 29030), (307, 29036), (327, 29102), (357, 29243), (367, 29300),

Gene: Joann_42 Start: 28143, Stop: 29078, Start Num: 67

Candidate Starts for Joann_42:
(Start: 67 @28143 has 140 MA's), (107, 28290), (111, 28308), (116, 28332), (138, 28407), (161, 28488), (163, 28503), (167, 28515), (242, 28734), (243, 28737), (317, 28929), (326, 28959), (335, 29004), (336, 29007), (343, 29034), (344, 29037),

Gene: Johann_43 Start: 27572, Stop: 28585, Start Num: 30
Candidate Starts for Johann_43:
(23, 27527), (Start: 30 @27572 has 19 MA's), (88, 27701), (107, 27782), (125, 27851), (153, 27935), (167, 27992), (198, 28070), (214, 28139), (215, 28142), (245, 28217), (252, 28244), (253, 28250), (274, 28334), (291, 28349), (306, 28400), (320, 28448), (335, 28511),

Gene: Jumboset_42 Start: 27650, Stop: 28597, Start Num: 67
Candidate Starts for Jumboset_42:
(Start: 67 @27650 has 140 MA's), (103, 27782), (106, 27794), (107, 27797), (113, 27821), (139, 27917), (153, 27965), (161, 27995), (167, 28022), (196, 28094), (243, 28244), (246, 28253), (272, 28340), (297, 28388), (317, 28448), (335, 28523), (336, 28526), (343, 28553), (344, 28556),

Gene: KSunshine22_97 Start: 80248, Stop: 81219, Start Num: 48
Candidate Starts for KSunshine22_97:
(Start: 48 @80248 has 9 MA's), (Start: 60 @80272 has 26 MA's), (Start: 78 @80293 has 4 MA's), (93, 80368), (102, 80407), (153, 80581), (156, 80596), (171, 80671), (192, 80698), (193, 80701), (199, 80722), (210, 80785), (222, 80806), (225, 80821), (228, 80833), (301, 80998), (307, 81019), (334, 81118), (335, 81127), (343, 81157),

Gene: Kabluna_69 Start: 52277, Stop: 51069, Start Num: 70
Candidate Starts for Kabluna_69:
(Start: 70 @52277 has 13 MA's), (Start: 128 @52055 has 1 MA's), (136, 52031), (139, 52016), (146, 51992), (147, 51989), (153, 51962), (169, 51887), (202, 51770), (232, 51674), (250, 51608), (275, 51497), (289, 51449), (295, 51428), (309, 51386), (316, 51368), (327, 51326), (337, 51272), (340, 51263), (343, 51254), (364, 51146),

Gene: Kalizoi_41 Start: 27475, Stop: 28422, Start Num: 67
Candidate Starts for Kalizoi_41:
(Start: 67 @27475 has 140 MA's), (89, 27544), (103, 27607), (106, 27619), (107, 27622), (113, 27646), (139, 27742), (153, 27790), (161, 27820), (167, 27847), (196, 27919), (243, 28069), (246, 28078), (272, 28165), (297, 28213), (317, 28273), (335, 28348), (336, 28351), (343, 28378), (344, 28381),

Gene: KandZ_56 Start: 43281, Stop: 44411, Start Num: 85
Candidate Starts for KandZ_56:
(Start: 60 @43233 has 26 MA's), (Start: 85 @43281 has 3 MA's), (91, 43320), (94, 43332), (118, 43431), (138, 43494), (153, 43548), (164, 43596), (188, 43662), (223, 43776), (229, 43803), (236, 43833), (249, 43878), (323, 44112), (337, 44178), (340, 44187), (343, 44196), (369, 44322), (382, 44403),

Gene: Karate_42 Start: 28845, Stop: 29999, Start Num: 71
Candidate Starts for Karate_42:
(Start: 71 @28845 has 34 MA's), (Start: 81 @28866 has 3 MA's), (134, 29076), (153, 29139), (173, 29235), (205, 29340), (249, 29490), (284, 29616), (295, 29646), (327, 29751), (357, 29892), (367, 29949),

Gene: Kate_44 Start: 28852, Stop: 30006, Start Num: 71
Candidate Starts for Kate_44:

(4, 28453), (Start: 71 @28852 has 34 MA's), (Start: 81 @28873 has 3 MA's), (134, 29083), (153, 29146), (173, 29242), (205, 29347), (249, 29497), (267, 29587), (284, 29623), (295, 29653), (327, 29758), (338, 29815), (357, 29899), (367, 29956),

Gene: Keanu_40 Start: 29418, Stop: 30383, Start Num: 49
Candidate Starts for Keanu_40:
(Start: 49 @29418 has 2 MA's), (103, 29580), (112, 29616), (113, 29619), (Start: 129 @29655 has 1 MA's), (152, 29718), (153, 29724), (194, 29847), (199, 29865), (202, 29889), (208, 29919), (238, 29988), (242, 30000), (257, 30060), (270, 30117), (293, 30156), (313, 30219),

Gene: KidneyBean_67 Start: 53442, Stop: 52243, Start Num: 67
Candidate Starts for KidneyBean_67:
(Start: 67 @53442 has 140 MA's), (146, 53154), (147, 53151), (152, 53130), (153, 53124), (229, 52851), (232, 52839), (236, 52821), (246, 52788), (250, 52773), (267, 52686), (295, 52599), (300, 52584), (310, 52554), (311, 52551), (327, 52497), (338, 52440), (339, 52437), (340, 52434), (343, 52425), (364, 52317), (370, 52293),

Gene: Kimchi1738_70 Start: 50509, Stop: 49391, Start Num: 75
Candidate Starts for Kimchi1738_70:
(Start: 75 @50509 has 8 MA's), (105, 50374), (119, 50323), (153, 50209), (162, 50167), (169, 50134), (193, 50071), (196, 50062), (198, 50053), (205, 50017), (221, 49963), (264, 49780), (335, 49591), (340, 49570), (347, 49540), (361, 49468), (365, 49453), (366, 49444),

Gene: KingBob_39 Start: 27511, Stop: 28464, Start Num: 73
Candidate Starts for KingBob_39:
(Start: 73 @27511 has 17 MA's), (87, 27568), (107, 27658), (111, 27676), (137, 27766), (151, 27817), (161, 27856), (163, 27871), (168, 27889), (169, 27901), (194, 27949), (226, 28066), (242, 28105), (246, 28117), (317, 28315), (335, 28390), (343, 28420), (344, 28423),

Gene: Kittykat_40 Start: 26532, Stop: 27479, Start Num: 67
Candidate Starts for Kittykat_40:
(Start: 67 @26532 has 140 MA's), (89, 26601), (103, 26664), (106, 26676), (107, 26679), (113, 26703), (139, 26799), (153, 26847), (167, 26904), (196, 26976), (297, 27270), (317, 27330), (335, 27405), (336, 27408), (343, 27435), (344, 27438),

Gene: Kokushibo_42 Start: 29670, Stop: 30635, Start Num: 50
Candidate Starts for Kokushibo_42:
(Start: 50 @29670 has 10 MA's), (83, 29733), (103, 29832), (112, 29868), (Start: 129 @29907 has 1 MA's), (152, 29970), (153, 29976), (194, 30099), (199, 30117), (202, 30141), (209, 30174), (242, 30252), (270, 30369), (293, 30408), (313, 30471),

Gene: Konstantine_71 Start: 50914, Stop: 52203, Start Num: 50
Candidate Starts for Konstantine_71:
(34, 50875), (Start: 44 @50899 has 1 MA's), (Start: 50 @50914 has 10 MA's), (92, 51028), (96, 51046), (105, 51088), (152, 51262), (153, 51268), (164, 51319), (192, 51433), (197, 51451), (198, 51454), (200, 51469), (205, 51490), (243, 51622), (245, 51628), (303, 51811), (311, 51829), (327, 51883), (339, 51943), (348, 51979), (367, 52075),

Gene: Korra_41 Start: 27487, Stop: 28434, Start Num: 67
Candidate Starts for Korra_41:
(Start: 67 @27487 has 140 MA's), (103, 27619), (106, 27631), (107, 27634), (113, 27658), (139, 27754), (153, 27802), (161, 27832), (167, 27859), (196, 27931), (243, 28081), (246, 28090), (272, 28177), (297, 28225), (317, 28285), (335, 28360), (336, 28363), (343, 28390), (344, 28393),

Gene: Kors_46 Start: 29786, Stop: 30883, Start Num: 76
Candidate Starts for Kors_46:
(Start: 37 @29732 has 1 MA's), (Start: 76 @29786 has 5 MA's), (Start: 79 @29789 has 1 MA's), (Start: 81 @29795 has 3 MA's), (134, 30005), (135, 30011), (150, 30056), (153, 30068), (168, 30131), (173, 30164), (205, 30269), (252, 30431), (307, 30566), (316, 30590), (360, 30782), (367, 30830),

Gene: Krampus_43 Start: 28852, Stop: 30006, Start Num: 71
Candidate Starts for Krampus_43:
(4, 28453), (Start: 71 @28852 has 34 MA's), (Start: 81 @28873 has 3 MA's), (134, 29083), (153, 29146), (173, 29242), (205, 29347), (249, 29497), (267, 29587), (284, 29623), (295, 29653), (327, 29758), (338, 29815), (357, 29899), (367, 29956),

Gene: Kurt_66 Start: 53312, Stop: 52113, Start Num: 67
Candidate Starts for Kurt_66:
(Start: 67 @53312 has 140 MA's), (146, 53024), (147, 53021), (152, 53000), (153, 52994), (229, 52721), (232, 52709), (236, 52691), (246, 52658), (250, 52643), (267, 52556), (295, 52469), (300, 52454), (310, 52424), (311, 52421), (327, 52367), (338, 52310), (339, 52307), (340, 52304), (343, 52295), (364, 52187), (370, 52163),

Gene: Labella_45 Start: 27803, Stop: 28816, Start Num: 30
Candidate Starts for Labella_45:
(Start: 30 @27803 has 19 MA's), (88, 27932), (107, 28013), (125, 28082), (153, 28166), (179, 28250), (198, 28301), (214, 28370), (215, 28373), (252, 28475), (253, 28481), (274, 28565), (291, 28580), (306, 28631), (320, 28679), (335, 28742),

Gene: Labelle_80 Start: 52685, Stop: 53917, Start Num: 59
Candidate Starts for Labelle_80:
(Start: 59 @52685 has 3 MA's), (86, 52739), (93, 52778), (94, 52781), (96, 52790), (103, 52823), (109, 52847), (150, 53012), (153, 53024), (171, 53105), (193, 53189), (199, 53210), (205, 53252), (245, 53390), (256, 53441), (268, 53492), (294, 53528), (311, 53576), (327, 53630), (340, 53693), (371, 53861), (380, 53903),

Gene: Lakshmi_42 Start: 28138, Stop: 29085, Start Num: 67
Candidate Starts for Lakshmi_42:
(Start: 67 @28138 has 140 MA's), (107, 28285), (116, 28327), (138, 28402), (161, 28483), (163, 28498), (167, 28510), (214, 28660), (242, 28729), (243, 28732), (326, 28966), (335, 29011), (336, 29014), (343, 29041), (344, 29044),

Gene: Lambo_63 Start: 43490, Stop: 44707, Start Num: 67
Candidate Starts for Lambo_63:
(Start: 67 @43490 has 140 MA's), (Start: 80 @43505 has 1 MA's), (106, 43634), (131, 43724), (134, 43727), (143, 43763), (153, 43796), (190, 43910), (198, 43937), (205, 43976), (206, 43991), (221, 44021), (229, 44051), (236, 44081), (250, 44129), (327, 44420), (337, 44474), (340, 44483), (343, 44492), (348, 44516), (366, 44609), (382, 44699),

Gene: Lasagna_38 Start: 26108, Stop: 27058, Start Num: 67
Candidate Starts for Lasagna_38:
(Start: 67 @26108 has 140 MA's), (103, 26240), (106, 26252), (107, 26255), (113, 26279), (139, 26375), (153, 26423), (156, 26438), (167, 26480), (171, 26504), (196, 26552), (234, 26678), (242, 26702), (243, 26705), (246, 26714), (297, 26849), (317, 26909), (335, 26984), (343, 27014), (344, 27017),

Gene: LastNadiia_39 Start: 26882, Stop: 25941, Start Num: 70
Candidate Starts for LastNadiia_39:
(Start: 70 @26882 has 13 MA's), (97, 26777), (123, 26681), (217, 26366), (224, 26345), (246, 26279), (301, 26174), (318, 26117), (334, 26054), (335, 26045), (349, 25991),

Gene: Laure_107 Start: 76210, Stop: 77187, Start Num: 48
Candidate Starts for Laure_107:
(Start: 48 @76210 has 9 MA's), (Start: 60 @76234 has 26 MA's), (Start: 78 @76255 has 4 MA's), (100, 76354), (119, 76426), (156, 76558), (159, 76567), (193, 76663), (199, 76684), (210, 76747), (222, 76768), (225, 76783), (228, 76795), (259, 76915), (301, 76960), (307, 76981), (335, 77089), (343, 77119), (346, 77131),

Gene: LavAbarElk_65 Start: 43284, Stop: 44447, Start Num: 67
Candidate Starts for LavAbarElk_65:
(Start: 67 @43284 has 140 MA's), (Start: 80 @43299 has 1 MA's), (106, 43428), (131, 43518), (134, 43521), (143, 43557), (153, 43590), (190, 43704), (198, 43731), (205, 43770), (206, 43785), (221, 43815), (229, 43845), (236, 43875), (250, 43923), (295, 44058), (327, 44160), (337, 44214), (340, 44223), (343, 44232), (348, 44256), (366, 44349), (382, 44439),

Gene: LazerLemon_51 Start: 36312, Stop: 37310, Start Num: 58
Candidate Starts for LazerLemon_51:
(9, 36060), (14, 36087), (18, 36132), (20, 36135), (Start: 58 @36312 has 17 MA's), (107, 36477), (116, 36519), (142, 36609), (151, 36642), (156, 36666), (193, 36756), (198, 36774), (199, 36777), (215, 36846), (246, 36936), (254, 36975), (265, 37032), (310, 37143), (341, 37248), (350, 37287),

Gene: Lennox_39 Start: 26316, Stop: 27266, Start Num: 67
Candidate Starts for Lennox_39:
(Start: 67 @26316 has 140 MA's), (103, 26448), (106, 26460), (107, 26463), (113, 26487), (139, 26583), (153, 26631), (156, 26646), (167, 26688), (171, 26712), (194, 26754), (196, 26760), (234, 26886), (242, 26910), (243, 26913), (246, 26922), (297, 27057), (317, 27117), (335, 27192), (343, 27222), (344, 27225),

Gene: LeoJr_102 Start: 83555, Stop: 84526, Start Num: 48
Candidate Starts for LeoJr_102:
(Start: 48 @83555 has 9 MA's), (Start: 60 @83579 has 26 MA's), (Start: 78 @83600 has 4 MA's), (102, 83714), (153, 83888), (156, 83903), (171, 83978), (192, 84005), (193, 84008), (197, 84023), (210, 84092), (222, 84113), (225, 84128), (228, 84140), (259, 84260), (263, 84281), (301, 84305), (307, 84326), (334, 84425), (335, 84434),

Gene: Leopard_73 Start: 50916, Stop: 52133, Start Num: 60
Candidate Starts for Leopard_73:
(Start: 60 @50916 has 26 MA's), (Start: 81 @50943 has 3 MA's), (90, 50997), (96, 51042), (110, 51108), (114, 51120), (Start: 128 @51168 has 1 MA's), (132, 51180), (141, 51210), (142, 51213), (150, 51240), (156, 51267), (190, 51396), (218, 51516), (221, 51522), (245, 51612), (254, 51654), (259, 51672), (262, 51690), (296, 51753), (323, 51837), (340, 51912), (342, 51918), (343, 51921), (357, 51990), (360, 51999), (368, 52044), (376, 52101),

Gene: LilStuart_39 Start: 26319, Stop: 27269, Start Num: 67
Candidate Starts for LilStuart_39:
(Start: 67 @26319 has 140 MA's), (103, 26451), (106, 26463), (107, 26466), (113, 26490), (139, 26586), (153, 26634), (167, 26691), (171, 26715), (194, 26757), (196, 26763), (234, 26889), (242, 26913), (243, 26916), (246, 26925), (297, 27060), (317, 27120), (335, 27195), (343, 27225), (344, 27228),

Gene: Lila22_66 Start: 44442, Stop: 45659, Start Num: 67
Candidate Starts for Lila22_66:
(Start: 67 @44442 has 140 MA's), (Start: 80 @44457 has 1 MA's), (106, 44586), (131, 44676), (134, 44679), (143, 44715), (153, 44748), (190, 44862), (198, 44889), (205, 44928), (206, 44943), (221, 44973), (229, 45003), (236, 45033), (250, 45081), (337, 45426), (340, 45435), (343, 45444), (348, 45468), (366, 45561), (382, 45651),

Gene: LilyPad_56 Start: 41683, Stop: 42828, Start Num: 67
Candidate Starts for LilyPad_56:
(Start: 67 @41683 has 140 MA's), (Start: 73 @41692 has 17 MA's), (104, 41818), (107, 41830), (156, 42007), (198, 42112), (245, 42286), (248, 42298), (295, 42430), (311, 42478), (317, 42499), (319, 42508), (321, 42514), (327, 42532), (330, 42544), (336, 42577), (339, 42592), (340, 42595), (342, 42601), (352, 42646), (365, 42712), (367, 42724),

Gene: Linayshia_43 Start: 27941, Stop: 28954, Start Num: 30
Candidate Starts for Linayshia_43:
(Start: 30 @27941 has 19 MA's), (107, 28151), (125, 28220), (153, 28304), (168, 28367), (198, 28439), (199, 28442), (214, 28508), (215, 28511), (252, 28613), (253, 28619), (274, 28703), (291, 28718), (306, 28769), (320, 28817), (335, 28880),

Gene: Litotes_41 Start: 27533, Stop: 28480, Start Num: 67
Candidate Starts for Litotes_41:
(Start: 67 @27533 has 140 MA's), (106, 27677), (107, 27680), (110, 27695), (116, 27722), (136, 27785), (153, 27848), (163, 27893), (167, 27905), (171, 27929), (214, 28055), (242, 28124), (243, 28127), (272, 28223), (297, 28271), (317, 28331), (335, 28406), (343, 28436), (344, 28439),

Gene: LittleFella_61 Start: 43303, Stop: 44364, Start Num: 62
Candidate Starts for LittleFella_61:
(Start: 62 @43303 has 5 MA's), (Start: 67 @43309 has 140 MA's), (Start: 73 @43318 has 17 MA's), (91, 43387), (118, 43528), (119, 43531), (156, 43663), (164, 43696), (197, 43765), (222, 43852), (250, 43960), (336, 44113), (339, 44128), (340, 44131), (345, 44152), (365, 44248), (367, 44260), (378, 44323), (381, 44341),

Gene: Lizz_66 Start: 47161, Stop: 46163, Start Num: 65
Candidate Starts for Lizz_66:
(38, 47212), (Start: 65 @47161 has 7 MA's), (Start: 80 @47149 has 1 MA's), (153, 46870), (154, 46867), (189, 46738), (198, 46711), (205, 46675), (229, 46600), (232, 46588), (249, 46525), (333, 46384), (340, 46351), (343, 46342), (357, 46270), (359, 46264), (372, 46180),

Gene: Lollipop1437_70 Start: 53959, Stop: 52760, Start Num: 57
Candidate Starts for Lollipop1437_70:
(Start: 57 @53959 has 2 MA's), (Start: 62 @53950 has 5 MA's), (118, 53752), (145, 53659), (146, 53656), (147, 53653), (153, 53626), (157, 53608), (169, 53551), (232, 53356), (233, 53353), (236, 53338), (250, 53290), (278, 53176), (281, 53164), (295, 53116), (311, 53068), (327, 53014), (340, 52951), (343, 52942), (366, 52822),

Gene: LordBart_46 Start: 29698, Stop: 30792, Start Num: 79
Candidate Starts for LordBart_46:
(Start: 37 @29641 has 1 MA's), (Start: 76 @29695 has 5 MA's), (Start: 79 @29698 has 1 MA's), (Start: 81 @29704 has 3 MA's), (134, 29914), (135, 29920), (150, 29965), (153, 29977), (168, 30040), (173, 30073), (205, 30178), (252, 30340), (307, 30475), (316, 30499), (360, 30691), (367, 30739),

Gene: LuckyLeo_62 Start: 43297, Stop: 44457, Start Num: 67
Candidate Starts for LuckyLeo_62:
(Start: 67 @43297 has 140 MA's), (Start: 80 @43312 has 1 MA's), (106, 43441), (131, 43531), (147, 43576), (153, 43603), (198, 43744), (206, 43795), (221, 43825), (229, 43855), (250, 43933), (262, 43993), (264, 44008), (280, 44029), (295, 44068), (296, 44074), (329, 44176), (337, 44224), (340, 44233), (348, 44266), (366, 44359), (382, 44449),

Gene: Lucy_39 Start: 26316, Stop: 27266, Start Num: 67
Candidate Starts for Lucy_39:
(Start: 67 @26316 has 140 MA's), (103, 26448), (106, 26460), (107, 26463), (113, 26487), (139, 26583), (153, 26631), (156, 26646), (167, 26688), (171, 26712), (194, 26754), (196, 26760), (234, 26886), (242, 26910), (243, 26913), (246, 26922), (297, 27057), (317, 27117), (335, 27192), (343, 27222), (344, 27225),

Gene: MacGully_76 Start: 53240, Stop: 52086, Start Num: 67
Candidate Starts for MacGully_76:
(40, 53291), (Start: 67 @53240 has 140 MA's), (119, 53042), (147, 52946), (153, 52919), (155, 52907), (164, 52871), (198, 52781), (249, 52595), (250, 52592), (259, 52550), (275, 52490), (311, 52394), (340, 52277), (342, 52271), (366, 52148), (367, 52145),

Gene: Madi_54 Start: 40504, Stop: 41709, Start Num: 36
Candidate Starts for Madi_54:
(Start: 36 @40504 has 4 MA's), (Start: 67 @40564 has 140 MA's), (Start: 73 @40573 has 17 MA's), (107, 40711), (113, 40735), (156, 40888), (164, 40921), (245, 41167), (246, 41170), (247, 41176), (251, 41191), (295, 41311), (311, 41359), (319, 41389), (321, 41395), (330, 41425), (336, 41458), (340, 41476), (342, 41482), (360, 41563), (365, 41593), (367, 41605), (378, 41668),

Gene: Madruga_79 Start: 52639, Stop: 53871, Start Num: 59
Candidate Starts for Madruga_79:
(Start: 59 @52639 has 3 MA's), (86, 52693), (94, 52735), (96, 52744), (103, 52777), (109, 52801), (150, 52966), (153, 52978), (171, 53059), (193, 53143), (199, 53164), (205, 53206), (245, 53344), (256, 53395), (268, 53446), (294, 53482), (311, 53530), (327, 53584), (340, 53647), (371, 53815), (380, 53857),

Gene: Makima_37 Start: 25998, Stop: 25066, Start Num: 70
Candidate Starts for Makima_37:
(Start: 70 @25998 has 13 MA's), (97, 25902), (153, 25698), (167, 25632), (217, 25491), (224, 25470), (246, 25404), (301, 25299), (318, 25242), (320, 25233), (321, 25230), (334, 25179), (335, 25170), (349, 25116),

Gene: Makoto_39 Start: 26327, Stop: 27277, Start Num: 67
Candidate Starts for Makoto_39:
(Start: 67 @26327 has 140 MA's), (103, 26459), (106, 26471), (107, 26474), (113, 26498), (139, 26594), (153, 26642), (156, 26657), (167, 26699), (171, 26723), (194, 26765), (196, 26771), (234, 26897), (242, 26921), (243, 26924), (246, 26933), (297, 27068), (317, 27128), (335, 27203), (343, 27233), (344, 27236),

Gene: MamaPearl_40 Start: 27489, Stop: 28439, Start Num: 67
Candidate Starts for MamaPearl_40:
(Start: 67 @27489 has 140 MA's), (103, 27621), (107, 27636), (110, 27651), (113, 27660), (139, 27756), (153, 27804), (156, 27819), (167, 27861), (171, 27885), (196, 27933), (198, 27942), (234, 28059), (243, 28086), (246, 28095), (317, 28290), (320, 28302), (335, 28365), (336, 28368), (343, 28395), (344, 28398),

Gene: Mareelih_165 Start: 94021, Stop: 93029, Start Num: 47
Candidate Starts for Mareelih_165:
(Start: 36 @94045 has 4 MA's), (Start: 47 @94021 has 5 MA's), (88, 93919), (104, 93847), (153, 93694), (171, 93604), (207, 93496), (212, 93487), (224, 93457), (225, 93454), (227, 93445), (239, 93400), (246, 93376), (263, 93295), (300, 93274), (313, 93232), (335, 93145), (336, 93142), (343, 93115), (356, 93052), (357, 93049),

Gene: Maria1952_38 Start: 27510, Stop: 28463, Start Num: 73
Candidate Starts for Maria1952_38:
(Start: 73 @27510 has 17 MA's), (87, 27567), (107, 27657), (111, 27675), (137, 27765), (151, 27816), (161, 27855), (163, 27870), (168, 27888), (169, 27900), (194, 27948), (226, 28065), (242, 28104), (246, 28116), (317, 28314), (335, 28389), (343, 28419), (344, 28422),

Gene: Marietta_68 Start: 49875, Stop: 48676, Start Num: 72
Candidate Starts for Marietta_68:
(Start: 72 @49875 has 7 MA's), (Start: 128 @49656 has 1 MA's), (136, 49632), (146, 49593), (147, 49590), (153, 49563), (157, 49545), (169, 49488), (229, 49290), (250, 49212), (255, 49185), (266, 49128), (267, 49125), (295, 49032), (310, 48987), (311, 48984), (316, 48972), (327, 48930), (340, 48867), (343, 48858), (363, 48756), (364, 48750), (370, 48726),

Gene: Marky_53 Start: 36621, Stop: 37619, Start Num: 58
Candidate Starts for Marky_53:
(12, 36390), (29, 36564), (Start: 58 @36621 has 17 MA's), (107, 36786), (117, 36831), (127, 36867), (142, 36918), (151, 36951), (195, 37071), (199, 37086), (202, 37110), (210, 37146), (246, 37263), (260, 37311), (307, 37437), (310, 37446), (340, 37548), (350, 37590),

Gene: Maselop_67 Start: 50089, Stop: 48926, Start Num: 67
Candidate Starts for Maselop_67:
(22, 50227), (40, 50119), (Start: 67 @50089 has 140 MA's), (119, 49891), (153, 49768), (155, 49756), (198, 49630), (202, 49603), (250, 49441), (288, 49297), (303, 49258), (311, 49234), (340, 49117), (342, 49111), (367, 48985),

Gene: MeganNoll_41 Start: 27707, Stop: 28654, Start Num: 67
Candidate Starts for MeganNoll_41:
(Start: 67 @27707 has 140 MA's), (103, 27839), (106, 27851), (107, 27854), (113, 27878), (139, 27974), (153, 28022), (161, 28052), (167, 28079), (196, 28151), (243, 28301), (246, 28310), (272, 28397), (297, 28445), (317, 28505), (335, 28580), (343, 28610), (344, 28613),

Gene: Megatron06_68 Start: 50660, Stop: 51949, Start Num: 50
Candidate Starts for Megatron06_68:
(34, 50621), (Start: 44 @50645 has 1 MA's), (Start: 50 @50660 has 10 MA's), (92, 50774), (94, 50783), (96, 50792), (105, 50834), (152, 51008), (153, 51014), (164, 51065), (192, 51179), (197, 51197), (198, 51200), (200, 51215), (205, 51236), (243, 51368), (245, 51374), (285, 51512), (303, 51557), (311, 51575), (327, 51629), (339, 51689), (348, 51725), (367, 51821),

Gene: MerCougar_69 Start: 54002, Stop: 52794, Start Num: 70
Candidate Starts for MerCougar_69:
(Start: 70 @54002 has 13 MA's), (Start: 128 @53780 has 1 MA's), (136, 53756), (146, 53717), (147, 53714), (153, 53687), (169, 53612), (232, 53399), (250, 53333), (267, 53246), (275, 53222), (289, 53174), (311, 53105), (316, 53093), (327, 53051), (337, 52997), (340, 52988), (343, 52979), (364, 52871), (366, 52859),

Gene: Microdon_49 Start: 35690, Stop: 36691, Start Num: 58
Candidate Starts for Microdon_49:
(9, 35453), (10, 35459), (14, 35480), (20, 35531), (Start: 58 @35690 has 17 MA's), (107, 35855), (111, 35873), (113, 35879), (142, 35990), (151, 36023), (156, 36047), (158, 36053), (169, 36107), (193, 36137), (195, 36143), (198, 36155), (199, 36158), (205, 36191), (215, 36227), (246, 36317), (265, 36413), (299, 36485), (310, 36524), (340, 36626), (350, 36668),

Gene: Milani_41 Start: 26576, Stop: 27577, Start Num: 30
Candidate Starts for Milani_41:
(Start: 30 @26576 has 19 MA's), (88, 26705), (107, 26786), (115, 26816), (153, 26927), (215, 27134), (222, 27146), (252, 27236), (253, 27242), (274, 27326), (291, 27341), (306, 27392), (335, 27503),

Gene: Mima20_65 Start: 44053, Stop: 45216, Start Num: 67
Candidate Starts for Mima20_65:
(Start: 67 @44053 has 140 MA's), (Start: 80 @44068 has 1 MA's), (106, 44197), (131, 44287), (134, 44290), (143, 44326), (153, 44359), (190, 44473), (198, 44500), (205, 44539), (206, 44554), (221, 44584), (229, 44614), (236, 44644), (250, 44692), (295, 44827), (327, 44929), (337, 44983), (340, 44992), (343, 45001), (348, 45025), (366, 45118), (382, 45208),

Gene: Mimi_103 Start: 82842, Stop: 83813, Start Num: 48
Candidate Starts for Mimi_103:
(Start: 48 @82842 has 9 MA's), (Start: 60 @82866 has 26 MA's), (Start: 78 @82887 has 4 MA's), (100, 82986), (102, 83001), (107, 83025), (119, 83058), (153, 83175), (156, 83190), (190, 83286), (193, 83295), (222, 83400), (225, 83415), (227, 83424), (249, 83499), (258, 83541), (301, 83592), (307, 83613), (335, 83721), (343, 83751),

Gene: Mireles_40 Start: 25556, Stop: 24624, Start Num: 70
Candidate Starts for Mireles_40:
(Start: 70 @25556 has 13 MA's), (97, 25460), (102, 25436), (153, 25256), (167, 25190), (190, 25151), (201, 25100), (217, 25049), (224, 25028), (230, 25004), (246, 24962), (301, 24857), (318, 24800), (320, 24791), (321, 24788), (334, 24737), (335, 24728), (349, 24674),

Gene: Misaeng_41 Start: 28126, Stop: 29073, Start Num: 67
Candidate Starts for Misaeng_41:
(Start: 67 @28126 has 140 MA's), (107, 28273), (111, 28291), (116, 28315), (127, 28351), (138, 28390), (153, 28441), (161, 28471), (163, 28486), (167, 28498), (214, 28648), (242, 28717), (243, 28720), (326, 28954), (335, 28999), (336, 29002), (343, 29029), (344, 29032),

Gene: MoiGyank_68 Start: 44818, Stop: 45981, Start Num: 67
Candidate Starts for MoiGyank_68:
(Start: 67 @44818 has 140 MA's), (Start: 80 @44833 has 1 MA's), (106, 44962), (131, 45052), (134, 45055), (143, 45091), (153, 45124), (190, 45238), (198, 45265), (205, 45304), (206, 45319), (221, 45349), (229, 45379), (236, 45409), (250, 45457), (295, 45592), (327, 45694), (337, 45748), (340, 45757), (343, 45766), (348, 45790), (366, 45883), (382, 45973),

Gene: Moki_39 Start: 26432, Stop: 27379, Start Num: 67
Candidate Starts for Moki_39:
(Start: 67 @26432 has 140 MA's), (103, 26564), (106, 26576), (107, 26579), (113, 26603), (139, 26699), (153, 26747), (167, 26804), (196, 26876), (198, 26885), (243, 27026), (246, 27035), (272, 27122), (317, 27230), (335, 27305), (336, 27308), (343, 27335), (344, 27338),

Gene: MontyDev_71 Start: 51361, Stop: 52530, Start Num: 67
Candidate Starts for MontyDev_71:

(Start: 67 @51361 has 140 MA's), (Start: 80 @51376 has 1 MA's), (87, 51418), (94, 51451), (149, 51652), (153, 51667), (190, 51799), (205, 51862), (206, 51877), (244, 51994), (307, 52195), (309, 52201), (311, 52207), (312, 52210), (338, 52318), (340, 52324), (367, 52456), (377, 52516),

Gene: Mopey_58 Start: 43111, Stop: 44289, Start Num: 60
Candidate Starts for Mopey_58:
(8, 42829), (11, 42859), (19, 42922), (Start: 60 @43111 has 26 MA's), (Start: 85 @43159 has 3 MA's), (91, 43198), (94, 43210), (118, 43309), (138, 43372), (153, 43426), (164, 43474), (188, 43540), (223, 43654), (229, 43681), (236, 43711), (249, 43756), (323, 43990), (337, 44056), (340, 44065), (343, 44074), (369, 44200), (382, 44281),

Gene: MortySmith_41 Start: 27877, Stop: 29034, Start Num: 71
Candidate Starts for MortySmith_41:
(4, 27484), (7, 27565), (Start: 71 @27877 has 34 MA's), (Start: 81 @27898 has 3 MA's), (134, 28108), (153, 28171), (173, 28267), (205, 28372), (249, 28522), (305, 28714), (307, 28720), (327, 28786), (357, 28927), (367, 28984),

Gene: MrBoss_43 Start: 27530, Stop: 28477, Start Num: 67
Candidate Starts for MrBoss_43:
(Start: 67 @27530 has 140 MA's), (106, 27674), (107, 27677), (110, 27692), (116, 27719), (136, 27782), (139, 27797), (153, 27845), (163, 27890), (167, 27902), (171, 27926), (214, 28052), (242, 28121), (243, 28124), (297, 28268), (317, 28328), (335, 28403), (336, 28406), (343, 28433), (344, 28436),

Gene: MrGloopy_42 Start: 27636, Stop: 28583, Start Num: 67
Candidate Starts for MrGloopy_42:
(Start: 67 @27636 has 140 MA's), (103, 27768), (106, 27780), (107, 27783), (113, 27807), (139, 27903), (153, 27951), (161, 27981), (167, 28008), (196, 28080), (243, 28230), (246, 28239), (272, 28326), (297, 28374), (317, 28434), (335, 28509), (336, 28512), (343, 28539), (344, 28542),

Gene: MrMiyagi_76 Start: 48172, Stop: 49212, Start Num: 60
Candidate Starts for MrMiyagi_76:
(42, 48133), (Start: 60 @48172 has 26 MA's), (Start: 67 @48181 has 140 MA's), (Start: 80 @48196 has 1 MA's), (84, 48217), (101, 48298), (Start: 129 @48406 has 1 MA's), (143, 48457), (154, 48496), (164, 48541), (167, 48550), (202, 48664), (206, 48688), (242, 48799), (314, 48892), (327, 48934), (340, 48997), (347, 49027), (366, 49126),

Gene: NadineRae_67 Start: 49484, Stop: 48285, Start Num: 72
Candidate Starts for NadineRae_67:
(Start: 72 @49484 has 7 MA's), (Start: 128 @49265 has 1 MA's), (136, 49241), (146, 49202), (147, 49199), (153, 49172), (157, 49154), (169, 49097), (229, 48899), (250, 48821), (255, 48794), (295, 48641), (310, 48596), (311, 48593), (316, 48581), (327, 48539), (340, 48476), (343, 48467), (363, 48365), (364, 48359), (370, 48335),

Gene: Nancia_39 Start: 26343, Stop: 27293, Start Num: 67
Candidate Starts for Nancia_39:
(Start: 67 @26343 has 140 MA's), (83, 26376), (89, 26412), (103, 26475), (106, 26487), (107, 26490), (113, 26514), (139, 26610), (153, 26658), (156, 26673), (167, 26715), (171, 26739), (196, 26787), (234, 26913), (242, 26937), (243, 26940), (246, 26949), (297, 27084), (317, 27144), (335, 27219), (336, 27222), (343, 27249), (344, 27252),

Gene: NarutoRun_43 Start: 28820, Stop: 29974, Start Num: 71
Candidate Starts for NarutoRun_43:

(4, 28421), (Start: 71 @28820 has 34 MA's), (Start: 81 @28841 has 3 MA's), (93, 28910), (134, 29051), (153, 29114), (173, 29210), (205, 29315), (249, 29465), (267, 29555), (284, 29591), (295, 29621), (327, 29726), (338, 29783), (357, 29867), (367, 29924),

Gene: NatB6_66 Start: 52381, Stop: 51182, Start Num: 67
Candidate Starts for NatB6_66:
(Start: 67 @52381 has 140 MA's), (146, 52093), (147, 52090), (152, 52069), (153, 52063), (229, 51790), (232, 51778), (236, 51760), (246, 51727), (250, 51712), (267, 51625), (295, 51538), (300, 51523), (310, 51493), (311, 51490), (327, 51436), (338, 51379), (339, 51376), (340, 51373), (343, 51364), (364, 51256), (370, 51232),

Gene: Neptune_43 Start: 28820, Stop: 29974, Start Num: 71
Candidate Starts for Neptune_43:
(4, 28421), (Start: 71 @28820 has 34 MA's), (Start: 81 @28841 has 3 MA's), (134, 29051), (153, 29114), (173, 29210), (205, 29315), (249, 29465), (267, 29555), (284, 29591), (295, 29621), (327, 29726), (338, 29783), (357, 29867), (367, 29924),

Gene: Neuvillette_37 Start: 24528, Stop: 23596, Start Num: 70
Candidate Starts for Neuvillette_37:
(Start: 70 @24528 has 13 MA's), (110, 24369), (127, 24324), (167, 24162), (190, 24123), (217, 24021), (224, 24000), (231, 23973), (246, 23934), (259, 23874), (301, 23829), (318, 23772), (320, 23763), (321, 23760), (334, 23709), (335, 23700), (346, 23658), (349, 23646),

Gene: Nilo_71 Start: 51718, Stop: 52887, Start Num: 67
Candidate Starts for Nilo_71:
(Start: 67 @51718 has 140 MA's), (Start: 80 @51733 has 1 MA's), (87, 51775), (94, 51808), (149, 52009), (153, 52024), (190, 52156), (205, 52219), (206, 52234), (236, 52324), (244, 52351), (307, 52552), (309, 52558), (311, 52564), (338, 52675), (340, 52681), (367, 52813), (377, 52873),

Gene: NorManre_69 Start: 44890, Stop: 46107, Start Num: 67
Candidate Starts for NorManre_69:
(Start: 67 @44890 has 140 MA's), (Start: 80 @44905 has 1 MA's), (106, 45034), (131, 45124), (134, 45127), (143, 45163), (153, 45196), (190, 45310), (198, 45337), (205, 45376), (206, 45391), (221, 45421), (229, 45451), (236, 45481), (250, 45529), (327, 45820), (337, 45874), (340, 45883), (343, 45892), (348, 45916), (366, 46009), (382, 46099),

Gene: NosilaM_69 Start: 53310, Stop: 52105, Start Num: 70
Candidate Starts for NosilaM_69:
(Start: 70 @53310 has 13 MA's), (Start: 128 @53091 has 1 MA's), (136, 53067), (146, 53028), (147, 53025), (153, 52998), (232, 52710), (250, 52644), (275, 52533), (289, 52485), (316, 52404), (327, 52362), (337, 52308), (340, 52299), (343, 52290), (364, 52182),

Gene: Nova_56 Start: 43563, Stop: 44741, Start Num: 60
Candidate Starts for Nova_56:
(8, 43281), (11, 43311), (32, 43497), (Start: 60 @43563 has 26 MA's), (Start: 85 @43611 has 3 MA's), (91, 43650), (94, 43662), (118, 43761), (138, 43824), (153, 43878), (164, 43926), (188, 43992), (223, 44106), (229, 44133), (236, 44163), (249, 44208), (323, 44442), (337, 44508), (340, 44517), (343, 44526), (369, 44652), (382, 44733),

Gene: NovaSharks_67 Start: 42658, Stop: 43875, Start Num: 67
Candidate Starts for NovaSharks_67:
(Start: 67 @42658 has 140 MA's), (Start: 80 @42673 has 1 MA's), (106, 42802), (131, 42892), (134, 42895), (143, 42931), (153, 42964), (190, 43078), (198, 43105), (205, 43144), (206, 43159), (221,

43189), (229, 43219), (236, 43249), (250, 43297), (295, 43486), (337, 43642), (340, 43651), (343, 43660), (348, 43684), (360, 43738), (366, 43777), (382, 43867),

Gene: NovumRegina_66 Start: 52690, Stop: 51491, Start Num: 67
Candidate Starts for NovumRegina_66:
(Start: 67 @52690 has 140 MA's), (146, 52402), (147, 52399), (152, 52378), (153, 52372), (229, 52099), (232, 52087), (236, 52069), (246, 52036), (250, 52021), (267, 51934), (295, 51847), (300, 51832), (310, 51802), (311, 51799), (327, 51745), (338, 51688), (339, 51685), (340, 51682), (343, 51673), (364, 51565), (370, 51541),

Gene: Nubia_42 Start: 28083, Stop: 29030, Start Num: 67
Candidate Starts for Nubia_42:
(Start: 67 @28083 has 140 MA's), (107, 28230), (116, 28272), (138, 28347), (161, 28428), (163, 28443), (167, 28455), (214, 28605), (242, 28674), (243, 28677), (326, 28911), (335, 28956), (336, 28959), (343, 28986), (344, 28989),

Gene: OMalley_39 Start: 27504, Stop: 28451, Start Num: 73
Candidate Starts for OMalley_39:
(Start: 73 @27504 has 17 MA's), (88, 27570), (111, 27669), (116, 27693), (137, 27759), (151, 27807), (156, 27831), (163, 27861), (168, 27879), (169, 27891), (192, 27933), (234, 28071), (242, 28092), (243, 28095), (317, 28302), (335, 28377), (336, 28380), (343, 28407), (344, 28410),

Gene: Oaker_67 Start: 50680, Stop: 52002, Start Num: 50
Candidate Starts for Oaker_67:
(34, 50641), (Start: 44 @50665 has 1 MA's), (Start: 50 @50680 has 10 MA's), (92, 50794), (94, 50803), (96, 50812), (105, 50854), (152, 51028), (153, 51034), (164, 51085), (192, 51232), (197, 51250), (198, 51253), (200, 51268), (205, 51289), (243, 51421), (245, 51427), (303, 51610), (311, 51628), (327, 51682), (339, 51742), (348, 51778), (367, 51874),

Gene: OhDear_43 Start: 28818, Stop: 29972, Start Num: 71
Candidate Starts for OhDear_43:
(4, 28419), (Start: 71 @28818 has 34 MA's), (Start: 81 @28839 has 3 MA's), (134, 29049), (153, 29112), (173, 29208), (205, 29313), (249, 29463), (267, 29553), (284, 29589), (295, 29619), (327, 29724), (338, 29781), (357, 29865), (367, 29922),

Gene: Olympi_44 Start: 27608, Stop: 28621, Start Num: 30
Candidate Starts for Olympi_44:
(Start: 30 @27608 has 19 MA's), (88, 27737), (107, 27818), (125, 27887), (153, 27971), (179, 28055), (198, 28106), (214, 28175), (215, 28178), (252, 28280), (253, 28286), (274, 28370), (291, 28385), (306, 28436), (320, 28484), (335, 28547),

Gene: Onyinye_74 Start: 50783, Stop: 52000, Start Num: 60
Candidate Starts for Onyinye_74:
(Start: 60 @50783 has 26 MA's), (Start: 81 @50810 has 3 MA's), (90, 50864), (96, 50909), (110, 50975), (114, 50987), (132, 51047), (141, 51077), (142, 51080), (150, 51107), (156, 51134), (190, 51263), (218, 51383), (221, 51389), (245, 51479), (254, 51521), (259, 51539), (262, 51557), (296, 51620), (323, 51704), (340, 51779), (342, 51785), (343, 51788), (357, 51857), (360, 51866), (368, 51911), (376, 51968),

Gene: OtterstedtS21_65 Start: 43824, Stop: 45041, Start Num: 67
Candidate Starts for OtterstedtS21_65:
(Start: 67 @43824 has 140 MA's), (Start: 80 @43839 has 1 MA's), (106, 43968), (131, 44058), (134, 44061), (143, 44097), (153, 44130), (190, 44244), (198, 44271), (205, 44310), (206, 44325), (221,

44355), (229, 44385), (236, 44415), (250, 44463), (327, 44754), (337, 44808), (340, 44817), (343, 44826), (348, 44850), (366, 44943), (382, 45033),

Gene: OurGirlNessie_38 Start: 26071, Stop: 27021, Start Num: 67
Candidate Starts for OurGirlNessie_38:
(Start: 67 @26071 has 140 MA's), (103, 26203), (106, 26215), (107, 26218), (113, 26242), (139, 26338), (153, 26386), (156, 26401), (167, 26443), (171, 26467), (196, 26515), (234, 26641), (242, 26665), (243, 26668), (246, 26677), (297, 26812), (317, 26872), (335, 26947), (343, 26977), (344, 26980),

Gene: Outis_67 Start: 53139, Stop: 51931, Start Num: 70
Candidate Starts for Outis_67:
(Start: 70 @53139 has 13 MA's), (Start: 80 @53121 has 1 MA's), (Start: 128 @52917 has 1 MA's), (136, 52893), (146, 52854), (147, 52851), (153, 52824), (169, 52749), (198, 52662), (232, 52536), (250, 52470), (275, 52359), (289, 52311), (311, 52242), (327, 52188), (337, 52134), (340, 52125), (343, 52116), (364, 52008), (366, 51996),

Gene: OverHedge_43 Start: 28810, Stop: 29964, Start Num: 71
Candidate Starts for OverHedge_43:
(4, 28411), (Start: 71 @28810 has 34 MA's), (Start: 81 @28831 has 3 MA's), (134, 29041), (153, 29104), (173, 29200), (205, 29305), (249, 29455), (267, 29545), (284, 29581), (295, 29611), (327, 29716), (338, 29773), (357, 29857), (367, 29914),

Gene: Oxynfrius_42 Start: 28104, Stop: 29051, Start Num: 67
Candidate Starts for Oxynfrius_42:
(Start: 67 @28104 has 140 MA's), (107, 28251), (116, 28293), (138, 28368), (161, 28449), (163, 28464), (167, 28476), (214, 28626), (242, 28695), (243, 28698), (326, 28932), (335, 28977), (336, 28980), (343, 29007), (344, 29010),

Gene: P1201_73 Start: 54596, Stop: 53460, Start Num: 68
Candidate Starts for P1201_73:
(68, 54596), (138, 54338), (153, 54287), (154, 54284), (178, 54173), (250, 53918), (311, 53753), (340, 53636), (365, 53519),

Gene: PBI1_54 Start: 43038, Stop: 44216, Start Num: 60
Candidate Starts for PBI1_54:
(8, 42756), (11, 42786), (19, 42849), (Start: 60 @43038 has 26 MA's), (Start: 85 @43086 has 3 MA's), (91, 43125), (94, 43137), (118, 43236), (138, 43299), (153, 43353), (164, 43401), (188, 43467), (223, 43581), (229, 43608), (236, 43638), (249, 43683), (323, 43917), (337, 43983), (340, 43992), (343, 44001), (369, 44127), (382, 44208),

Gene: PHTowN_66 Start: 47159, Stop: 46161, Start Num: 65
Candidate Starts for PHTowN_66:
(38, 47210), (Start: 65 @47159 has 7 MA's), (Start: 80 @47147 has 1 MA's), (153, 46868), (154, 46865), (189, 46736), (198, 46709), (205, 46673), (229, 46598), (232, 46586), (249, 46523), (333, 46382), (340, 46349), (343, 46340), (357, 46268), (359, 46262), (372, 46178),

Gene: PLot_57 Start: 43090, Stop: 44268, Start Num: 60
Candidate Starts for PLot_57:
(8, 42808), (19, 42901), (Start: 60 @43090 has 26 MA's), (Start: 85 @43138 has 3 MA's), (91, 43177), (94, 43189), (118, 43288), (138, 43351), (153, 43405), (164, 43453), (188, 43519), (223, 43633), (229, 43660), (236, 43690), (249, 43735), (323, 43969), (337, 44035), (340, 44044), (343, 44053), (369, 44179), (382, 44260),

Gene: Panchaali_94 Start: 80207, Stop: 81178, Start Num: 48
Candidate Starts for Panchaali_94:
(Start: 48 @80207 has 9 MA's), (Start: 60 @80231 has 26 MA's), (Start: 78 @80252 has 4 MA's), (93, 80327), (102, 80366), (153, 80540), (156, 80555), (171, 80630), (192, 80657), (193, 80660), (197, 80675), (199, 80681), (210, 80744), (222, 80765), (225, 80780), (228, 80792), (258, 80906), (301, 80957), (307, 80978), (334, 81077), (335, 81086), (343, 81116),

Gene: Papyrus_69 Start: 51328, Stop: 52497, Start Num: 67
Candidate Starts for Papyrus_69:
(Start: 67 @51328 has 140 MA's), (Start: 80 @51343 has 1 MA's), (87, 51385), (94, 51418), (149, 51619), (153, 51634), (190, 51766), (205, 51829), (206, 51844), (236, 51934), (244, 51961), (307, 52162), (309, 52168), (311, 52174), (338, 52285), (340, 52291), (367, 52423), (377, 52483),

Gene: PartyCup_42 Start: 27759, Stop: 28706, Start Num: 67
Candidate Starts for PartyCup_42:
(Start: 67 @27759 has 140 MA's), (106, 27903), (107, 27906), (110, 27921), (116, 27948), (136, 28011), (139, 28026), (153, 28074), (163, 28119), (167, 28131), (171, 28155), (214, 28281), (242, 28350), (243, 28353), (297, 28497), (317, 28557), (335, 28632), (336, 28635), (343, 28662), (344, 28665),

Gene: Parvaparticeps_12 Start: 7767, Stop: 8726, Start Num: 61
Candidate Starts for Parvaparticeps_12:
(1, 7284), (2, 7317), (13, 7527), (61, 7767), (Start: 80 @7794 has 1 MA's), (Start: 81 @7797 has 3 MA's), (83, 7812), (87, 7836), (106, 7923), (121, 7983), (153, 8097), (171, 8178), (186, 8202), (194, 8220), (198, 8235), (199, 8238), (215, 8307), (234, 8352), (243, 8379), (274, 8475), (300, 8520), (320, 8589), (335, 8652), (340, 8673),

Gene: ParvusTarda_64 Start: 43199, Stop: 44413, Start Num: 67
Candidate Starts for ParvusTarda_64:
(Start: 67 @43199 has 140 MA's), (Start: 80 @43214 has 1 MA's), (106, 43343), (130, 43427), (147, 43478), (153, 43505), (190, 43619), (198, 43646), (206, 43697), (213, 43712), (221, 43727), (229, 43757), (250, 43835), (295, 44024), (329, 44132), (337, 44180), (340, 44189), (343, 44198), (348, 44222), (366, 44315), (382, 44405),

Gene: Patbob_102 Start: 83577, Stop: 84548, Start Num: 48
Candidate Starts for Patbob_102:
(Start: 48 @83577 has 9 MA's), (Start: 60 @83601 has 26 MA's), (Start: 78 @83622 has 4 MA's), (100, 83721), (102, 83736), (107, 83760), (119, 83793), (153, 83910), (156, 83925), (190, 84021), (193, 84030), (222, 84135), (225, 84150), (227, 84159), (249, 84234), (258, 84276), (301, 84327), (307, 84348), (334, 84447), (335, 84456), (343, 84486),

Gene: Patience_81 Start: 53552, Stop: 54784, Start Num: 59
Candidate Starts for Patience_81:
(Start: 59 @53552 has 3 MA's), (86, 53606), (93, 53645), (94, 53648), (96, 53657), (103, 53690), (109, 53714), (150, 53879), (153, 53891), (171, 53972), (193, 54056), (199, 54077), (205, 54119), (245, 54257), (256, 54308), (268, 54359), (294, 54395), (311, 54443), (327, 54497), (340, 54560), (371, 54728), (380, 54770),

Gene: Patio_68 Start: 53007, Stop: 51817, Start Num: 62
Candidate Starts for Patio_68:
(Start: 57 @53016 has 2 MA's), (Start: 62 @53007 has 5 MA's), (118, 52809), (145, 52716), (146, 52713), (147, 52710), (153, 52683), (157, 52665), (169, 52608), (232, 52413), (233, 52410), (236,

52395), (250, 52347), (278, 52233), (281, 52221), (295, 52173), (311, 52125), (327, 52071), (340, 52008), (343, 51999), (366, 51879),

Gene: Patos_69 Start: 44889, Stop: 46106, Start Num: 67
Candidate Starts for Patos_69:
(Start: 67 @44889 has 140 MA's), (Start: 80 @44904 has 1 MA's), (106, 45033), (131, 45123), (134, 45126), (143, 45162), (153, 45195), (190, 45309), (198, 45336), (205, 45375), (206, 45390), (221, 45420), (229, 45450), (236, 45480), (250, 45528), (327, 45819), (337, 45873), (340, 45882), (343, 45891), (348, 45915), (366, 46008), (382, 46098),

Gene: PauloDiaboli_113 Start: 76695, Stop: 75760, Start Num: 58
Candidate Starts for PauloDiaboli_113:
(Start: 58 @76695 has 17 MA's), (63, 76686), (97, 76578), (122, 76488), (143, 76437), (150, 76410), (153, 76398), (169, 76314), (180, 76308), (197, 76269), (227, 76152), (243, 76101), (306, 75969), (307, 75966), (309, 75960), (320, 75921), (336, 75855), (343, 75828),

Gene: Pemberton_69 Start: 50049, Stop: 48850, Start Num: 72
Candidate Starts for Pemberton_69:
(Start: 72 @50049 has 7 MA's), (Start: 128 @49830 has 1 MA's), (136, 49806), (146, 49767), (147, 49764), (153, 49737), (157, 49719), (169, 49662), (229, 49464), (232, 49452), (250, 49386), (255, 49359), (267, 49299), (295, 49206), (300, 49191), (310, 49161), (311, 49158), (316, 49146), (327, 49104), (340, 49041), (343, 49032), (363, 48930), (364, 48924), (370, 48900),

Gene: Penelope2018_57 Start: 43108, Stop: 44286, Start Num: 60
Candidate Starts for Penelope2018_57:
(8, 42826), (19, 42919), (Start: 60 @43108 has 26 MA's), (Start: 85 @43156 has 3 MA's), (91, 43195), (94, 43207), (118, 43306), (138, 43369), (153, 43423), (164, 43471), (188, 43537), (223, 43651), (229, 43678), (236, 43708), (249, 43753), (323, 43987), (337, 44053), (340, 44062), (343, 44071), (369, 44197), (382, 44278),

Gene: PermaG_43 Start: 27639, Stop: 28652, Start Num: 30
Candidate Starts for PermaG_43:
(Start: 30 @27639 has 19 MA's), (88, 27768), (107, 27849), (153, 28002), (167, 28059), (198, 28137), (214, 28206), (215, 28209), (245, 28284), (252, 28311), (274, 28401), (291, 28416), (306, 28467), (335, 28578),

Gene: PeteyPab_68 Start: 50318, Stop: 49200, Start Num: 75
Candidate Starts for PeteyPab_68:
(Start: 75 @50318 has 8 MA's), (105, 50183), (119, 50132), (138, 50069), (153, 50018), (162, 49976), (169, 49943), (173, 49922), (193, 49880), (196, 49871), (198, 49862), (205, 49826), (221, 49772), (264, 49589), (335, 49400), (340, 49379), (347, 49349), (361, 49277), (365, 49262), (366, 49253),

Gene: Phalaborwa_58 Start: 43258, Stop: 44436, Start Num: 60
Candidate Starts for Phalaborwa_58:
(Start: 60 @43258 has 26 MA's), (91, 43345), (94, 43357), (118, 43456), (138, 43519), (150, 43561), (153, 43573), (164, 43621), (188, 43687), (229, 43828), (232, 43840), (236, 43858), (249, 43903), (292, 44041), (307, 44083), (322, 44134), (323, 44137), (337, 44203), (340, 44212), (343, 44221), (369, 44347), (382, 44428),

Gene: Pharpay_43 Start: 28865, Stop: 30019, Start Num: 71
Candidate Starts for Pharpay_43:
(4, 28466), (Start: 71 @28865 has 34 MA's), (Start: 81 @28886 has 3 MA's), (93, 28955), (134, 29096), (153, 29159), (173, 29255), (205, 29360), (249, 29510), (267, 29600), (284, 29636), (295, 29666),

(327, 29771), (338, 29828), (357, 29912), (367, 29969),

Gene: Phendrix_170 Start: 90108, Stop: 89107, Start Num: 48
Candidate Starts for Phendrix_170:
(Start: 48 @90108 has 9 MA's), (53, 90096), (Start: 81 @90054 has 3 MA's), (Start: 85 @90033 has 3 MA's), (111, 89904), (153, 89781), (154, 89778), (156, 89766), (205, 89607), (212, 89574), (216, 89565), (227, 89532), (229, 89526), (240, 89487), (245, 89469), (246, 89466), (259, 89406), (300, 89364), (307, 89340), (310, 89331), (319, 89298), (335, 89235), (336, 89232), (343, 89205), (347, 89187),

Gene: Phomeo_66 Start: 53314, Stop: 52115, Start Num: 67
Candidate Starts for Phomeo_66:
(Start: 67 @53314 has 140 MA's), (146, 53026), (147, 53023), (152, 53002), (153, 52996), (229, 52723), (232, 52711), (236, 52693), (246, 52660), (250, 52645), (267, 52558), (295, 52471), (300, 52456), (310, 52426), (311, 52423), (327, 52369), (338, 52312), (339, 52309), (340, 52306), (343, 52297), (364, 52189), (370, 52165),

Gene: Phrampa_96 Start: 84980, Stop: 85951, Start Num: 48
Candidate Starts for Phrampa_96:
(Start: 48 @84980 has 9 MA's), (Start: 60 @85004 has 26 MA's), (Start: 78 @85025 has 4 MA's), (100, 85124), (102, 85139), (107, 85163), (119, 85196), (153, 85313), (156, 85328), (171, 85403), (193, 85433), (199, 85454), (222, 85538), (225, 85553), (227, 85562), (228, 85565), (249, 85637), (258, 85679), (301, 85730), (307, 85751), (335, 85859), (343, 85889),

Gene: Phreeze_66 Start: 49680, Stop: 50969, Start Num: 50
Candidate Starts for Phreeze_66:
(34, 49641), (Start: 44 @49665 has 1 MA's), (Start: 50 @49680 has 10 MA's), (92, 49794), (94, 49803), (96, 49812), (105, 49854), (152, 50028), (153, 50034), (164, 50085), (192, 50199), (197, 50217), (198, 50220), (200, 50235), (205, 50256), (243, 50388), (245, 50394), (285, 50532), (303, 50577), (311, 50595), (327, 50649), (339, 50709), (348, 50745), (367, 50841),

Gene: PhunaPhoke_43 Start: 28838, Stop: 29992, Start Num: 71
Candidate Starts for PhunaPhoke_43:
(4, 28439), (Start: 71 @28838 has 34 MA's), (Start: 81 @28859 has 3 MA's), (134, 29069), (153, 29132), (173, 29228), (205, 29333), (249, 29483), (267, 29573), (284, 29609), (295, 29639), (327, 29744), (338, 29801), (357, 29885), (367, 29942),

Gene: PinkFriday_39 Start: 26620, Stop: 27570, Start Num: 73
Candidate Starts for PinkFriday_39:
(Start: 73 @26620 has 17 MA's), (87, 26677), (107, 26767), (111, 26785), (137, 26875), (151, 26926), (161, 26965), (163, 26980), (168, 26998), (169, 27010), (194, 27058), (226, 27175), (242, 27214), (246, 27226), (272, 27313), (297, 27361), (317, 27421), (335, 27496), (343, 27526), (344, 27529),

Gene: PitaDog_39 Start: 26328, Stop: 27278, Start Num: 67
Candidate Starts for PitaDog_39:
(Start: 67 @26328 has 140 MA's), (103, 26460), (106, 26472), (107, 26475), (113, 26499), (139, 26595), (153, 26643), (156, 26658), (167, 26700), (171, 26724), (194, 26766), (196, 26772), (234, 26898), (242, 26922), (243, 26925), (246, 26934), (297, 27069), (317, 27129), (335, 27204), (343, 27234), (344, 27237),

Gene: Pleakley_75 Start: 52499, Stop: 51309, Start Num: 62
Candidate Starts for Pleakley_75:

(5, 52829), (16, 52727), (Start: 62 @52499 has 5 MA's), (Start: 80 @52472 has 1 MA's), (99, 52379), (131, 52256), (136, 52244), (147, 52202), (153, 52175), (154, 52172), (250, 51842), (267, 51755), (295, 51662), (311, 51614), (340, 51497), (347, 51467), (359, 51410), (364, 51380), (370, 51356),

Gene: Polyyuki_67 Start: 50081, Stop: 48915, Start Num: 67
Candidate Starts for Polyyuki_67:
(22, 50219), (40, 50111), (Start: 67 @50081 has 140 MA's), (119, 49883), (153, 49760), (169, 49685), (198, 49622), (202, 49595), (231, 49502), (235, 49487), (241, 49463), (249, 49436), (250, 49433), (311, 49223), (324, 49175), (340, 49106), (342, 49100), (367, 48974),

Gene: PotatoChip_69 Start: 50320, Stop: 49202, Start Num: 75
Candidate Starts for PotatoChip_69:
(Start: 75 @50320 has 8 MA's), (105, 50185), (119, 50134), (138, 50071), (153, 50020), (162, 49978), (169, 49945), (173, 49924), (193, 49882), (196, 49873), (198, 49864), (205, 49828), (221, 49774), (264, 49591), (335, 49402), (340, 49381), (347, 49351), (361, 49279), (365, 49264), (366, 49255),

Gene: Potatoes_41 Start: 27534, Stop: 28481, Start Num: 67
Candidate Starts for Potatoes_41:
(Start: 67 @27534 has 140 MA's), (89, 27603), (103, 27666), (106, 27678), (107, 27681), (113, 27705), (139, 27801), (153, 27849), (161, 27879), (167, 27906), (196, 27978), (243, 28128), (246, 28137), (272, 28224), (297, 28272), (317, 28332), (335, 28407), (336, 28410), (343, 28437), (344, 28440),

Gene: Potty_43 Start: 28843, Stop: 29997, Start Num: 71
Candidate Starts for Potty_43:
(4, 28444), (Start: 71 @28843 has 34 MA's), (Start: 81 @28864 has 3 MA's), (134, 29074), (153, 29137), (173, 29233), (205, 29338), (249, 29488), (267, 29578), (284, 29614), (295, 29644), (327, 29749), (338, 29806), (357, 29890), (367, 29947),

Gene: Poultress_42 Start: 29185, Stop: 30312, Start Num: 71
Candidate Starts for Poultress_42:
(Start: 71 @29185 has 34 MA's), (Start: 81 @29206 has 3 MA's), (134, 29416), (153, 29479), (173, 29575), (205, 29680), (249, 29830), (307, 29998), (327, 30064), (338, 30121), (357, 30205), (367, 30262),

Gene: Prager_57 Start: 43127, Stop: 44305, Start Num: 60
Candidate Starts for Prager_57:
(8, 42845), (11, 42875), (19, 42938), (Start: 60 @43127 has 26 MA's), (Start: 85 @43175 has 3 MA's), (91, 43214), (94, 43226), (118, 43325), (138, 43388), (153, 43442), (164, 43490), (188, 43556), (223, 43670), (229, 43697), (236, 43727), (249, 43772), (323, 44006), (337, 44072), (340, 44081), (343, 44090), (369, 44216), (382, 44297),

Gene: Preamble_39 Start: 26398, Stop: 27345, Start Num: 67
Candidate Starts for Preamble_39:
(Start: 67 @26398 has 140 MA's), (103, 26530), (106, 26542), (107, 26545), (113, 26569), (139, 26665), (153, 26713), (156, 26728), (167, 26770), (169, 26788), (192, 26830), (196, 26842), (297, 27136), (317, 27196), (335, 27271), (336, 27274), (343, 27301), (344, 27304),

Gene: Predator_68 Start: 49458, Stop: 50774, Start Num: 44
Candidate Starts for Predator_68:
(26, 49386), (31, 49425), (34, 49434), (Start: 44 @49458 has 1 MA's), (Start: 50 @49473 has 10 MA's), (92, 49578), (93, 49584), (96, 49596), (114, 49686), (153, 49818), (156, 49833), (164, 49869), (176, 49932), (183, 49971), (185, 49980), (197, 50022), (202, 50052), (205, 50061), (220, 50106), (237, 50172), (245, 50199), (249, 50214), (261, 50274), (285, 50337), (303, 50382), (321, 50436), (327,

50454), (339, 50514), (348, 50550), (363, 50625), (367, 50646), (369, 50652), (373, 50691), (381, 50727), (383, 50739),

Gene: Pterodactyl_39 Start: 26308, Stop: 27258, Start Num: 67
Candidate Starts for Pterodactyl_39:
(Start: 67 @26308 has 140 MA's), (103, 26440), (106, 26452), (107, 26455), (113, 26479), (139, 26575), (153, 26623), (156, 26638), (167, 26680), (171, 26704), (196, 26752), (234, 26878), (242, 26902), (243, 26905), (246, 26914), (297, 27049), (317, 27109), (335, 27184), (343, 27214), (344, 27217),

Gene: Puissant_69 Start: 49917, Stop: 51227, Start Num: 52
Candidate Starts for Puissant_69:
(20, 49746), (31, 49866), (34, 49875), (Start: 44 @49899 has 1 MA's), (52, 49917), (92, 50019), (96, 50037), (152, 50253), (153, 50259), (160, 50289), (164, 50310), (192, 50457), (197, 50475), (198, 50478), (200, 50493), (202, 50505), (205, 50514), (243, 50646), (245, 50652), (261, 50727), (277, 50778), (303, 50835), (339, 50967), (348, 51003), (363, 51078),

Gene: Pumancara_39 Start: 26532, Stop: 27482, Start Num: 73
Candidate Starts for Pumancara_39:
(Start: 73 @26532 has 17 MA's), (87, 26589), (107, 26679), (111, 26697), (137, 26787), (151, 26838), (161, 26877), (163, 26892), (168, 26910), (169, 26922), (194, 26970), (226, 27087), (246, 27138), (272, 27225), (297, 27273), (317, 27333), (335, 27408), (343, 27438), (344, 27441),

Gene: Pumpernickel_110 Start: 78248, Stop: 77310, Start Num: 58
Candidate Starts for Pumpernickel_110:
(Start: 58 @78248 has 17 MA's), (99, 78125), (108, 78077), (126, 78032), (143, 77990), (146, 77981), (150, 77963), (153, 77951), (169, 77867), (181, 77858), (190, 77846), (197, 77822), (219, 77735), (222, 77729), (227, 77705), (304, 77531), (307, 77519), (320, 77474), (343, 77381),

Gene: Pywacket_62 Start: 44677, Stop: 45825, Start Num: 80
Candidate Starts for Pywacket_62:
(Start: 67 @44662 has 140 MA's), (Start: 80 @44677 has 1 MA's), (106, 44806), (131, 44896), (134, 44899), (143, 44935), (153, 44968), (156, 44983), (190, 45082), (198, 45109), (205, 45148), (206, 45163), (221, 45193), (229, 45223), (236, 45253), (250, 45301), (295, 45436), (327, 45538), (337, 45592), (340, 45601), (343, 45610), (348, 45634), (366, 45727), (382, 45817),

Gene: RAP15_42 Start: 27707, Stop: 28654, Start Num: 67
Candidate Starts for RAP15_42:
(Start: 67 @27707 has 140 MA's), (103, 27839), (106, 27851), (107, 27854), (113, 27878), (139, 27974), (153, 28022), (161, 28052), (167, 28079), (196, 28151), (243, 28301), (246, 28310), (272, 28397), (297, 28445), (317, 28505), (335, 28580), (343, 28610), (344, 28613),

Gene: Racecar_104 Start: 83495, Stop: 84466, Start Num: 48
Candidate Starts for Racecar_104:
(Start: 48 @83495 has 9 MA's), (Start: 60 @83519 has 26 MA's), (Start: 78 @83540 has 4 MA's), (100, 83639), (102, 83654), (107, 83678), (119, 83711), (153, 83828), (156, 83843), (190, 83939), (193, 83948), (222, 84053), (225, 84068), (227, 84077), (249, 84152), (258, 84194), (301, 84245), (307, 84266), (335, 84374), (343, 84404),

Gene: Rachella_43 Start: 28867, Stop: 30000, Start Num: 81
Candidate Starts for Rachella_43:
(4, 28447), (Start: 71 @28846 has 34 MA's), (Start: 81 @28867 has 3 MA's), (93, 28936), (134, 29077), (153, 29140), (173, 29236), (205, 29341), (249, 29491), (267, 29581), (284, 29617), (295, 29647),

(327, 29752), (338, 29809), (357, 29893), (367, 29950),

Gene: Ranch_65 Start: 42668, Stop: 43885, Start Num: 67
Candidate Starts for Ranch_65:
(Start: 67 @42668 has 140 MA's), (Start: 80 @42683 has 1 MA's), (106, 42812), (131, 42902), (134, 42905), (143, 42941), (153, 42974), (190, 43088), (198, 43115), (205, 43154), (206, 43169), (221, 43199), (229, 43229), (236, 43259), (248, 43301), (327, 43598), (337, 43652), (340, 43661), (343, 43670), (348, 43694), (366, 43787), (382, 43877),

Gene: Rasovi_43 Start: 27973, Stop: 28986, Start Num: 30
Candidate Starts for Rasovi_43:
(Start: 30 @27973 has 19 MA's), (107, 28183), (125, 28252), (153, 28336), (168, 28399), (198, 28471), (199, 28474), (214, 28540), (215, 28543), (252, 28645), (253, 28651), (274, 28735), (291, 28750), (306, 28801), (320, 28849), (335, 28912),

Gene: RazorC_65 Start: 42812, Stop: 44029, Start Num: 67
Candidate Starts for RazorC_65:
(Start: 67 @42812 has 140 MA's), (Start: 80 @42827 has 1 MA's), (106, 42956), (131, 43046), (134, 43049), (143, 43085), (153, 43118), (190, 43232), (198, 43259), (205, 43298), (206, 43313), (221, 43343), (229, 43373), (236, 43403), (250, 43451), (295, 43640), (337, 43796), (340, 43805), (343, 43814), (348, 43838), (360, 43892), (366, 43931), (382, 44021),

Gene: RcigaStruga_41 Start: 27893, Stop: 28828, Start Num: 67
Candidate Starts for RcigaStruga_41:
(Start: 67 @27893 has 140 MA's), (107, 28040), (111, 28058), (116, 28082), (138, 28157), (153, 28208), (161, 28238), (163, 28253), (167, 28265), (214, 28415), (242, 28484), (243, 28487), (291, 28598), (335, 28754), (336, 28757), (343, 28784), (344, 28787),

Gene: RedRaider_73 Start: 55326, Stop: 54136, Start Num: 62
Candidate Starts for RedRaider_73:
(Start: 57 @55335 has 2 MA's), (Start: 62 @55326 has 5 MA's), (Start: 80 @55299 has 1 MA's), (118, 55128), (145, 55035), (146, 55032), (147, 55029), (153, 55002), (157, 54984), (169, 54927), (232, 54732), (236, 54714), (250, 54666), (255, 54639), (281, 54540), (295, 54492), (311, 54444), (327, 54390), (340, 54327), (343, 54318), (366, 54198),

Gene: ReginaGlobina_102 Start: 83120, Stop: 84091, Start Num: 48
Candidate Starts for ReginaGlobina_102:
(Start: 48 @83120 has 9 MA's), (Start: 60 @83144 has 26 MA's), (Start: 78 @83165 has 4 MA's), (102, 83279), (153, 83453), (156, 83468), (171, 83543), (192, 83570), (193, 83573), (197, 83588), (210, 83657), (222, 83678), (225, 83693), (228, 83705), (259, 83825), (263, 83846), (301, 83870), (307, 83891), (334, 83990), (335, 83999),

Gene: Riduram_65 Start: 42387, Stop: 43604, Start Num: 67
Candidate Starts for Riduram_65:
(Start: 67 @42387 has 140 MA's), (Start: 80 @42402 has 1 MA's), (106, 42531), (131, 42621), (134, 42624), (143, 42660), (153, 42693), (190, 42807), (198, 42834), (205, 42873), (206, 42888), (221, 42918), (229, 42948), (236, 42978), (250, 43026), (295, 43215), (337, 43371), (340, 43380), (343, 43389), (348, 43413), (360, 43467), (366, 43506), (382, 43596),

Gene: Rie18_43 Start: 28391, Stop: 29497, Start Num: 71
Candidate Starts for Rie18_43:
(Start: 71 @28391 has 34 MA's), (Start: 81 @28412 has 3 MA's), (134, 28622), (153, 28685), (173, 28781), (205, 28886), (249, 29036), (327, 29249), (357, 29390), (367, 29447),

Gene: RikSengupta_46 Start: 29769, Stop: 30920, Start Num: 37
Candidate Starts for RikSengupta_46:
(Start: 37 @29769 has 1 MA's), (Start: 76 @29823 has 5 MA's), (Start: 79 @29826 has 1 MA's), (Start: 81 @29832 has 3 MA's), (134, 30042), (135, 30048), (150, 30093), (153, 30105), (168, 30168), (173, 30201), (205, 30306), (252, 30468), (307, 30603), (316, 30627), (360, 30819), (367, 30867),

Gene: Riovina_39 Start: 27504, Stop: 28451, Start Num: 73
Candidate Starts for Riovina_39:
(Start: 73 @27504 has 17 MA's), (88, 27570), (111, 27669), (116, 27693), (137, 27759), (151, 27807), (156, 27831), (163, 27861), (168, 27879), (169, 27891), (192, 27933), (234, 28071), (242, 28092), (243, 28095), (317, 28302), (335, 28377), (336, 28380), (343, 28407), (344, 28410),

Gene: Riparian_71 Start: 51165, Stop: 52334, Start Num: 67
Candidate Starts for Riparian_71:
(Start: 67 @51165 has 140 MA's), (Start: 80 @51180 has 1 MA's), (87, 51222), (94, 51255), (149, 51456), (153, 51471), (190, 51603), (205, 51666), (206, 51681), (236, 51771), (244, 51798), (307, 51999), (309, 52005), (311, 52011), (338, 52122), (340, 52128), (367, 52260), (377, 52320),

Gene: Riverdale_42 Start: 27672, Stop: 28619, Start Num: 67
Candidate Starts for Riverdale_42:
(Start: 67 @27672 has 140 MA's), (89, 27741), (103, 27804), (106, 27816), (107, 27819), (113, 27843), (139, 27939), (153, 27987), (161, 28017), (167, 28044), (196, 28116), (243, 28266), (246, 28275), (272, 28362), (297, 28410), (317, 28470), (335, 28545), (336, 28548), (343, 28575), (344, 28578),

Gene: Roberts_37 Start: 24528, Stop: 23596, Start Num: 70
Candidate Starts for Roberts_37:
(Start: 70 @24528 has 13 MA's), (110, 24369), (127, 24324), (167, 24162), (190, 24123), (217, 24021), (224, 24000), (231, 23973), (246, 23934), (259, 23874), (301, 23829), (318, 23772), (320, 23763), (321, 23760), (334, 23709), (335, 23700), (346, 23658), (349, 23646),

Gene: Rockabye_108 Start: 76731, Stop: 77705, Start Num: 48
Candidate Starts for Rockabye_108:
(Start: 48 @76731 has 9 MA's), (Start: 60 @76755 has 26 MA's), (Start: 78 @76776 has 4 MA's), (100, 76875), (119, 76947), (153, 77064), (156, 77079), (193, 77184), (222, 77289), (225, 77304), (229, 77319), (301, 77481), (307, 77502), (335, 77610), (343, 77640),

Gene: Rooney_66 Start: 47314, Stop: 46316, Start Num: 65
Candidate Starts for Rooney_66:
(Start: 65 @47314 has 7 MA's), (Start: 80 @47302 has 1 MA's), (153, 47023), (154, 47020), (189, 46891), (198, 46864), (205, 46828), (229, 46753), (232, 46741), (249, 46678), (323, 46579), (333, 46537), (340, 46504), (343, 46495), (357, 46423), (359, 46417), (372, 46333),

Gene: Rootkit7_42 Start: 27509, Stop: 28522, Start Num: 30
Candidate Starts for Rootkit7_42:
(Start: 30 @27509 has 19 MA's), (88, 27638), (107, 27719), (125, 27788), (153, 27872), (179, 27956), (198, 28007), (214, 28076), (215, 28079), (252, 28181), (253, 28187), (274, 28271), (291, 28286), (306, 28337), (320, 28385), (335, 28448),

Gene: Rope_69 Start: 51321, Stop: 52490, Start Num: 67
Candidate Starts for Rope_69:
(Start: 67 @51321 has 140 MA's), (Start: 80 @51336 has 1 MA's), (87, 51378), (94, 51411), (149, 51612), (153, 51627), (190, 51759), (205, 51822), (206, 51837), (236, 51927), (244, 51954), (307,

52155), (309, 52161), (311, 52167), (338, 52278), (340, 52284), (367, 52416), (377, 52476),

Gene: Rota_62 Start: 43736, Stop: 44899, Start Num: 67
Candidate Starts for Rota_62:
(Start: 67 @43736 has 140 MA's), (Start: 80 @43751 has 1 MA's), (106, 43880), (131, 43970), (134, 43973), (143, 44009), (153, 44042), (190, 44156), (198, 44183), (205, 44222), (206, 44237), (221, 44267), (229, 44297), (236, 44327), (250, 44375), (295, 44510), (327, 44612), (337, 44666), (340, 44675), (343, 44684), (348, 44708), (366, 44801), (382, 44891),

Gene: Rozby_41 Start: 27464, Stop: 28411, Start Num: 67
Candidate Starts for Rozby_41:
(Start: 67 @27464 has 140 MA's), (89, 27533), (103, 27596), (106, 27608), (107, 27611), (113, 27635), (139, 27731), (153, 27779), (161, 27809), (167, 27836), (196, 27908), (243, 28058), (246, 28067), (272, 28154), (297, 28202), (317, 28262), (335, 28337), (336, 28340), (343, 28367), (344, 28370),

Gene: Rukungu_67 Start: 44741, Stop: 45904, Start Num: 67
Candidate Starts for Rukungu_67:
(Start: 67 @44741 has 140 MA's), (Start: 80 @44756 has 1 MA's), (106, 44885), (131, 44975), (134, 44978), (143, 45014), (153, 45047), (190, 45161), (198, 45188), (205, 45227), (206, 45242), (221, 45272), (229, 45302), (236, 45332), (250, 45380), (295, 45515), (327, 45617), (337, 45671), (340, 45680), (343, 45689), (348, 45713), (366, 45806), (382, 45896),

Gene: Rumi_66 Start: 42355, Stop: 43572, Start Num: 67
Candidate Starts for Rumi_66:
(Start: 67 @42355 has 140 MA's), (Start: 80 @42370 has 1 MA's), (106, 42499), (131, 42589), (134, 42592), (143, 42628), (153, 42661), (190, 42775), (198, 42802), (205, 42841), (206, 42856), (221, 42886), (229, 42916), (236, 42946), (250, 42994), (295, 43183), (337, 43339), (340, 43348), (343, 43357), (348, 43381), (360, 43435), (366, 43474), (382, 43564),

Gene: SBlackberry_42 Start: 27445, Stop: 28458, Start Num: 30
Candidate Starts for SBlackberry_42:
(23, 27400), (Start: 30 @27445 has 19 MA's), (107, 27655), (125, 27724), (153, 27808), (167, 27865), (198, 27943), (214, 28012), (215, 28015), (245, 28090), (252, 28117), (291, 28222), (306, 28273), (320, 28321), (335, 28384),

Gene: SJReid_107 Start: 75794, Stop: 76723, Start Num: 78
Candidate Starts for SJReid_107:
(Start: 48 @75749 has 9 MA's), (Start: 60 @75773 has 26 MA's), (Start: 78 @75794 has 4 MA's), (93, 75869), (100, 75893), (101, 75902), (119, 75965), (153, 76082), (159, 76106), (164, 76139), (190, 76193), (193, 76202), (222, 76307), (225, 76322), (229, 76337), (301, 76499), (307, 76520), (335, 76628), (343, 76658),

Gene: Sadboi_66 Start: 44538, Stop: 45701, Start Num: 67
Candidate Starts for Sadboi_66:
(Start: 67 @44538 has 140 MA's), (Start: 80 @44553 has 1 MA's), (106, 44682), (131, 44772), (134, 44775), (143, 44811), (153, 44844), (190, 44958), (198, 44985), (205, 45024), (206, 45039), (221, 45069), (229, 45099), (236, 45129), (250, 45177), (264, 45252), (271, 45273), (295, 45312), (327, 45414), (337, 45468), (340, 45477), (343, 45486), (348, 45510), (366, 45603), (382, 45693),

Gene: Sampudon_65 Start: 44890, Stop: 46053, Start Num: 67
Candidate Starts for Sampudon_65:
(Start: 67 @44890 has 140 MA's), (Start: 80 @44905 has 1 MA's), (106, 45034), (131, 45124), (134, 45127), (143, 45163), (153, 45196), (190, 45310), (198, 45337), (205, 45376), (206, 45391), (221,

45421), (229, 45451), (236, 45481), (250, 45529), (295, 45664), (327, 45766), (337, 45820), (340, 45829), (343, 45838), (348, 45862), (366, 45955), (382, 46045),

Gene: Sapo_31 Start: 30227, Stop: 29166, Start Num: 27
Candidate Starts for Sapo_31:
(Start: 27 @30227 has 1 MA's), (98, 30014), (Start: 129 @29909 has 1 MA's), (161, 29801), (171, 29750), (180, 29744), (198, 29696), (204, 29663), (246, 29546), (268, 29507), (338, 29315), (354, 29234), (355, 29231), (358, 29222), (362, 29192),

Gene: SassyC_71 Start: 48238, Stop: 47240, Start Num: 65
Candidate Starts for SassyC_71:
(51, 48262), (Start: 65 @48238 has 7 MA's), (Start: 80 @48226 has 1 MA's), (153, 47947), (154, 47944), (198, 47788), (205, 47752), (229, 47677), (232, 47665), (246, 47614), (249, 47602), (333, 47461), (340, 47428), (343, 47419), (357, 47347), (359, 47341), (372, 47257),

Gene: Savage2526_42 Start: 27701, Stop: 28648, Start Num: 67
Candidate Starts for Savage2526_42:
(Start: 67 @27701 has 140 MA's), (103, 27833), (106, 27845), (107, 27848), (113, 27872), (139, 27968), (153, 28016), (161, 28046), (167, 28073), (196, 28145), (243, 28295), (246, 28304), (272, 28391), (297, 28439), (317, 28499), (335, 28574), (336, 28577), (343, 28604), (344, 28607),

Gene: Scuba_76 Start: 52584, Stop: 51394, Start Num: 62
Candidate Starts for Scuba_76:
(15, 52815), (16, 52812), (Start: 62 @52584 has 5 MA's), (69, 52575), (Start: 80 @52557 has 1 MA's), (99, 52464), (131, 52341), (139, 52314), (147, 52287), (153, 52260), (250, 51927), (267, 51840), (295, 51747), (311, 51699), (340, 51582), (346, 51558), (359, 51495), (364, 51465), (370, 51441),

Gene: Scuttle_41 Start: 27661, Stop: 28608, Start Num: 67
Candidate Starts for Scuttle_41:
(Start: 67 @27661 has 140 MA's), (103, 27793), (107, 27808), (113, 27832), (139, 27928), (153, 27976), (161, 28006), (167, 28033), (196, 28105), (243, 28255), (246, 28264), (272, 28351), (297, 28399), (317, 28459), (335, 28534), (336, 28537), (343, 28564), (344, 28567),

Gene: Send513_69 Start: 51699, Stop: 52868, Start Num: 67
Candidate Starts for Send513_69:
(Start: 67 @51699 has 140 MA's), (Start: 80 @51714 has 1 MA's), (87, 51756), (94, 51789), (149, 51990), (153, 52005), (190, 52137), (205, 52200), (206, 52215), (244, 52332), (307, 52533), (309, 52539), (311, 52545), (338, 52656), (340, 52662), (367, 52794), (377, 52854),

Gene: Sergei_39 Start: 27511, Stop: 28464, Start Num: 73
Candidate Starts for Sergei_39:
(Start: 73 @27511 has 17 MA's), (87, 27568), (107, 27658), (111, 27676), (137, 27766), (151, 27817), (161, 27856), (163, 27871), (168, 27889), (169, 27901), (194, 27949), (226, 28066), (242, 28105), (246, 28117), (317, 28315), (335, 28390), (343, 28420), (344, 28423),

Gene: ShakeNBake_66 Start: 47186, Stop: 46188, Start Num: 65
Candidate Starts for ShakeNBake_66:
(38, 47237), (Start: 65 @47186 has 7 MA's), (Start: 80 @47174 has 1 MA's), (153, 46895), (154, 46892), (189, 46763), (198, 46736), (205, 46700), (229, 46625), (232, 46613), (249, 46550), (333, 46409), (340, 46376), (343, 46367), (357, 46295), (359, 46289), (372, 46205),

Gene: Shynx_50 Start: 36115, Stop: 37113, Start Num: 58
Candidate Starts for Shynx_50:

(3, 35722), (9, 35878), (20, 35956), (Start: 55 @36109 has 1 MA's), (Start: 58 @36115 has 17 MA's), (107, 36280), (113, 36304), (142, 36412), (151, 36445), (156, 36469), (169, 36529), (193, 36559), (195, 36565), (198, 36577), (199, 36580), (205, 36613), (215, 36649), (246, 36739), (265, 36835), (306, 36934), (310, 36946), (350, 37090),

Gene: Sienna_54 Start: 40504, Stop: 41709, Start Num: 36
Candidate Starts for Sienna_54:
(Start: 36 @40504 has 4 MA's), (Start: 67 @40564 has 140 MA's), (Start: 73 @40573 has 17 MA's), (107, 40711), (113, 40735), (156, 40888), (164, 40921), (245, 41167), (246, 41170), (247, 41176), (251, 41191), (295, 41311), (311, 41359), (319, 41389), (321, 41395), (330, 41425), (336, 41458), (340, 41476), (342, 41482), (360, 41563), (365, 41593), (367, 41605), (378, 41668),

Gene: SilentWarrior_43 Start: 28085, Stop: 29212, Start Num: 71
Candidate Starts for SilentWarrior_43:
(4, 27692), (6, 27758), (7, 27773), (Start: 71 @28085 has 34 MA's), (Start: 81 @28106 has 3 MA's), (101, 28202), (134, 28316), (153, 28379), (173, 28475), (205, 28580), (249, 28730), (307, 28898), (327, 28964), (357, 29105), (367, 29162),

Gene: SirHarley_59 Start: 43598, Stop: 44728, Start Num: 85
Candidate Starts for SirHarley_59:
(35, 43505), (Start: 49 @43532 has 2 MA's), (Start: 50 @43535 has 10 MA's), (Start: 60 @43550 has 26 MA's), (Start: 85 @43598 has 3 MA's), (91, 43637), (94, 43649), (118, 43748), (138, 43811), (153, 43865), (164, 43913), (188, 43979), (223, 44093), (229, 44120), (236, 44150), (249, 44195), (323, 44429), (337, 44495), (340, 44504), (343, 44513), (369, 44639), (382, 44720),

Gene: Sixama_166 Start: 94053, Stop: 93025, Start Num: 33
Candidate Starts for Sixama_166:
(Start: 30 @94059 has 19 MA's), (Start: 33 @94053 has 1 MA's), (Start: 48 @94014 has 9 MA's), (53, 94002), (83, 93948), (122, 93786), (Start: 129 @93765 has 1 MA's), (153, 93690), (201, 93528), (203, 93522), (207, 93492), (227, 93441), (239, 93399), (240, 93396), (246, 93375), (300, 93273), (334, 93153), (335, 93144), (336, 93141), (343, 93114), (356, 93048), (360, 93036),

Gene: Skysand_68 Start: 53458, Stop: 52295, Start Num: 82
Candidate Starts for Skysand_68:
(Start: 82 @53458 has 2 MA's), (118, 53287), (145, 53194), (146, 53191), (147, 53188), (153, 53161), (157, 53143), (169, 53086), (232, 52891), (233, 52888), (236, 52873), (250, 52825), (278, 52711), (281, 52699), (295, 52651), (311, 52603), (327, 52549), (340, 52486), (343, 52477), (366, 52357),

Gene: Snakehole_43 Start: 28023, Stop: 29177, Start Num: 71
Candidate Starts for Snakehole_43:
(4, 27624), (Start: 71 @28023 has 34 MA's), (Start: 81 @28044 has 3 MA's), (134, 28254), (153, 28317), (173, 28413), (205, 28518), (249, 28668), (284, 28794), (295, 28824), (327, 28929), (338, 28986), (357, 29070), (367, 29127),

Gene: Sparcetus_46 Start: 29700, Stop: 30797, Start Num: 76
Candidate Starts for Sparcetus_46:
(41, 29652), (Start: 76 @29700 has 5 MA's), (Start: 79 @29703 has 1 MA's), (Start: 81 @29709 has 3 MA's), (134, 29919), (135, 29925), (150, 29970), (153, 29982), (168, 30045), (173, 30078), (205, 30183), (252, 30345), (307, 30480), (316, 30504), (360, 30696), (367, 30744),

Gene: Spocter_40 Start: 29643, Stop: 30608, Start Num: 50
Candidate Starts for Spocter_40:

(Start: 50 @29643 has 10 MA's), (83, 29706), (103, 29805), (112, 29841), (Start: 129 @29880 has 1 MA's), (152, 29943), (153, 29949), (194, 30072), (199, 30090), (202, 30114), (209, 30147), (242, 30225), (270, 30342), (293, 30381), (313, 30444),

Gene: StarStruck_67 Start: 53139, Stop: 51931, Start Num: 70
Candidate Starts for StarStruck_67:
(Start: 70 @53139 has 13 MA's), (Start: 80 @53121 has 1 MA's), (Start: 128 @52917 has 1 MA's), (136, 52893), (146, 52854), (147, 52851), (153, 52824), (169, 52749), (198, 52662), (232, 52536), (250, 52470), (275, 52359), (289, 52311), (311, 52242), (327, 52188), (337, 52134), (340, 52125), (343, 52116), (364, 52008), (366, 51996),

Gene: Stewart25555_94 Start: 79965, Stop: 80936, Start Num: 48
Candidate Starts for Stewart25555_94:
(Start: 48 @79965 has 9 MA's), (Start: 60 @79989 has 26 MA's), (Start: 78 @80010 has 4 MA's), (93, 80085), (102, 80124), (153, 80298), (156, 80313), (159, 80322), (171, 80388), (192, 80415), (193, 80418), (197, 80433), (210, 80502), (222, 80523), (225, 80538), (228, 80550), (263, 80691), (301, 80715), (307, 80736), (334, 80835), (335, 80844), (343, 80874),

Gene: Stickynote_69 Start: 50521, Stop: 49409, Start Num: 75
Candidate Starts for Stickynote_69:
(Start: 75 @50521 has 8 MA's), (119, 50335), (153, 50221), (162, 50179), (169, 50146), (193, 50083), (196, 50074), (198, 50065), (205, 50029), (221, 49975), (264, 49792), (335, 49603), (340, 49582), (347, 49552), (361, 49480), (365, 49465), (366, 49456),

Gene: Stormer_65 Start: 42359, Stop: 43576, Start Num: 67
Candidate Starts for Stormer_65:
(Start: 67 @42359 has 140 MA's), (Start: 80 @42374 has 1 MA's), (106, 42503), (131, 42593), (134, 42596), (143, 42632), (153, 42665), (190, 42779), (198, 42806), (205, 42845), (206, 42860), (221, 42890), (229, 42920), (236, 42950), (250, 42998), (295, 43187), (337, 43343), (340, 43352), (343, 43361), (348, 43385), (360, 43439), (366, 43478), (382, 43568),

Gene: Studio_39 Start: 25891, Stop: 24959, Start Num: 70
Candidate Starts for Studio_39:
(Start: 70 @25891 has 13 MA's), (110, 25732), (127, 25687), (167, 25525), (190, 25486), (217, 25384), (220, 25378), (224, 25363), (231, 25336), (246, 25297), (259, 25237), (301, 25192), (318, 25135), (334, 25072), (335, 25063), (349, 25009),

Gene: Stuff_50 Start: 36182, Stop: 37180, Start Num: 58
Candidate Starts for Stuff_50:
(9, 35945), (10, 35951), (20, 36023), (Start: 58 @36182 has 17 MA's), (107, 36347), (113, 36371), (142, 36479), (151, 36512), (156, 36536), (193, 36626), (195, 36632), (198, 36644), (199, 36647), (215, 36716), (246, 36806), (265, 36902), (310, 37013), (350, 37157),

Gene: Sucha_40 Start: 25225, Stop: 26232, Start Num: 30
Candidate Starts for Sucha_40:
(Start: 30 @25225 has 19 MA's), (107, 25435), (153, 25582), (168, 25645), (215, 25789), (222, 25801), (245, 25864), (252, 25891), (253, 25897), (274, 25981), (291, 25996), (315, 26071), (335, 26158),

Gene: Sukkupi_67 Start: 51527, Stop: 50328, Start Num: 72
Candidate Starts for Sukkupi_67:
(Start: 72 @51527 has 7 MA's), (Start: 128 @51308 has 1 MA's), (136, 51284), (145, 51248), (146, 51245), (147, 51242), (153, 51215), (157, 51197), (169, 51140), (229, 50942), (250, 50864), (267, 50777), (295, 50684), (300, 50669), (310, 50639), (311, 50636), (316, 50624), (327, 50582), (340,

50519), (343, 50510), (363, 50408), (364, 50402),

Gene: Supakev_39 Start: 27504, Stop: 28451, Start Num: 73
Candidate Starts for Supakev_39:
(Start: 73 @27504 has 17 MA's), (88, 27570), (111, 27669), (116, 27693), (137, 27759), (151, 27807), (156, 27831), (163, 27861), (168, 27879), (169, 27891), (192, 27933), (234, 28071), (242, 28092), (243, 28095), (317, 28302), (335, 28377), (336, 28380), (343, 28407), (344, 28410),

Gene: SuperSonics_83 Start: 52580, Stop: 53812, Start Num: 59
Candidate Starts for SuperSonics_83:
(Start: 59 @52580 has 3 MA's), (86, 52634), (93, 52673), (94, 52676), (96, 52685), (103, 52718), (109, 52742), (150, 52907), (153, 52919), (171, 53000), (199, 53105), (205, 53147), (245, 53285), (256, 53336), (268, 53387), (294, 53423), (311, 53471), (327, 53525), (340, 53588), (371, 53756), (380, 53798),

Gene: SuperSulley_68 Start: 53499, Stop: 52291, Start Num: 70
Candidate Starts for SuperSulley_68:
(Start: 70 @53499 has 13 MA's), (Start: 128 @53277 has 1 MA's), (136, 53253), (146, 53214), (147, 53211), (153, 53184), (157, 53166), (169, 53109), (232, 52896), (250, 52830), (275, 52719), (289, 52671), (316, 52590), (327, 52548), (337, 52494), (340, 52485), (343, 52476), (364, 52368),

Gene: SuperheroCarly_58 Start: 43224, Stop: 44402, Start Num: 60
Candidate Starts for SuperheroCarly_58:
(35, 43179), (Start: 49 @43206 has 2 MA's), (Start: 50 @43209 has 10 MA's), (Start: 60 @43224 has 26 MA's), (Start: 85 @43272 has 3 MA's), (91, 43311), (94, 43323), (118, 43422), (138, 43485), (153, 43539), (164, 43587), (188, 43653), (223, 43767), (229, 43794), (236, 43824), (249, 43869), (323, 44103), (337, 44169), (340, 44178), (343, 44187), (369, 44313), (382, 44394),

Gene: Suppi_41 Start: 27580, Stop: 28527, Start Num: 67
Candidate Starts for Suppi_41:
(Start: 67 @27580 has 140 MA's), (106, 27724), (107, 27727), (110, 27742), (116, 27769), (136, 27832), (139, 27847), (153, 27895), (163, 27940), (167, 27952), (171, 27976), (214, 28102), (242, 28171), (243, 28174), (297, 28318), (317, 28378), (335, 28453), (336, 28456), (343, 28483), (344, 28486),

Gene: Suzy_54 Start: 41757, Stop: 42902, Start Num: 67
Candidate Starts for Suzy_54:
(Start: 67 @41757 has 140 MA's), (Start: 73 @41766 has 17 MA's), (107, 41904), (156, 42081), (164, 42114), (245, 42360), (246, 42363), (247, 42369), (251, 42384), (259, 42420), (292, 42495), (295, 42504), (311, 42552), (319, 42582), (321, 42588), (330, 42618), (336, 42651), (340, 42669), (342, 42675), (360, 42756), (365, 42786), (367, 42798), (378, 42861),

Gene: TMaxx_38 Start: 25180, Stop: 24239, Start Num: 70
Candidate Starts for TMaxx_38:
(Start: 70 @25180 has 13 MA's), (150, 24883), (153, 24871), (217, 24664), (224, 24643), (243, 24586), (246, 24577), (249, 24565), (301, 24472), (318, 24415), (334, 24352), (335, 24343), (349, 24289),

Gene: Talia1610_103 Start: 82860, Stop: 83831, Start Num: 48
Candidate Starts for Talia1610_103:
(Start: 48 @82860 has 9 MA's), (Start: 60 @82884 has 26 MA's), (Start: 78 @82905 has 4 MA's), (100, 83004), (102, 83019), (107, 83043), (119, 83076), (153, 83193), (156, 83208), (190, 83304), (193, 83313), (222, 83418), (225, 83433), (227, 83442), (249, 83517), (258, 83559), (301, 83610), (307, 83631), (335, 83739), (343, 83769),

Gene: TattModd_40 Start: 27321, Stop: 28268, Start Num: 67
Candidate Starts for TattModd_40:
(Start: 67 @27321 has 140 MA's), (89, 27390), (103, 27453), (106, 27465), (107, 27468), (113, 27492), (139, 27588), (153, 27636), (161, 27666), (167, 27693), (168, 27699), (196, 27765), (243, 27915), (246, 27924), (272, 28011), (297, 28059), (317, 28119), (335, 28194), (336, 28197), (343, 28224), (344, 28227),

Gene: Tedro_43 Start: 28325, Stop: 29431, Start Num: 71
Candidate Starts for Tedro_43:
(4, 27932), (7, 28013), (Start: 71 @28325 has 34 MA's), (Start: 81 @28346 has 3 MA's), (134, 28556), (153, 28619), (173, 28715), (205, 28820), (249, 28970), (327, 29183), (338, 29240), (357, 29324), (367, 29381),

Gene: Temper16_39 Start: 27511, Stop: 28464, Start Num: 73
Candidate Starts for Temper16_39:
(Start: 73 @27511 has 17 MA's), (87, 27568), (107, 27658), (111, 27676), (137, 27766), (151, 27817), (161, 27856), (163, 27871), (168, 27889), (169, 27901), (194, 27949), (226, 28066), (242, 28105), (246, 28117), (317, 28315), (335, 28390), (343, 28420), (344, 28423),

Gene: Terapin_55 Start: 40488, Stop: 41633, Start Num: 67
Candidate Starts for Terapin_55:
(Start: 36 @40428 has 4 MA's), (Start: 67 @40488 has 140 MA's), (Start: 73 @40497 has 17 MA's), (107, 40635), (113, 40659), (156, 40812), (164, 40845), (245, 41091), (246, 41094), (247, 41100), (251, 41115), (295, 41235), (311, 41283), (319, 41313), (321, 41319), (330, 41349), (336, 41382), (340, 41400), (342, 41406), (360, 41487), (365, 41517), (367, 41529), (378, 41592),

Gene: Theresita_43 Start: 26461, Stop: 27471, Start Num: 30
Candidate Starts for Theresita_43:
(Start: 30 @26461 has 19 MA's), (106, 26668), (107, 26671), (153, 26821), (204, 26989), (222, 27040), (242, 27094), (274, 27220), (300, 27265), (316, 27313), (328, 27355), (335, 27397), (343, 27427), (348, 27448),

Gene: Thoth_57 Start: 43106, Stop: 44284, Start Num: 60
Candidate Starts for Thoth_57:
(8, 42824), (11, 42854), (19, 42917), (Start: 60 @43106 has 26 MA's), (Start: 85 @43154 has 3 MA's), (91, 43193), (94, 43205), (118, 43304), (138, 43367), (153, 43421), (164, 43469), (188, 43535), (223, 43649), (229, 43676), (236, 43706), (249, 43751), (323, 43985), (337, 44051), (340, 44060), (343, 44069), (369, 44195), (382, 44276),

Gene: Thumb_68 Start: 50115, Stop: 51404, Start Num: 50
Candidate Starts for Thumb_68:
(34, 50076), (Start: 44 @50100 has 1 MA's), (Start: 50 @50115 has 10 MA's), (92, 50229), (94, 50238), (96, 50247), (105, 50289), (152, 50463), (153, 50469), (164, 50520), (192, 50634), (197, 50652), (198, 50655), (200, 50670), (205, 50691), (243, 50823), (245, 50829), (285, 50967), (303, 51012), (311, 51030), (327, 51084), (339, 51144), (348, 51180), (367, 51276),

Gene: Tillicus_60 Start: 43238, Stop: 44398, Start Num: 67
Candidate Starts for Tillicus_60:
(Start: 67 @43238 has 140 MA's), (Start: 80 @43253 has 1 MA's), (106, 43382), (130, 43466), (147, 43517), (153, 43544), (190, 43658), (198, 43685), (205, 43721), (206, 43736), (213, 43751), (221, 43766), (229, 43796), (250, 43874), (262, 43934), (269, 43961), (295, 44009), (296, 44015), (329, 44117), (337, 44165), (340, 44174), (348, 44207), (366, 44300), (382, 44390),

Gene: TinyMiny_46 Start: 29721, Stop: 30818, Start Num: 76
Candidate Starts for TinyMiny_46:
(Start: 37 @29667 has 1 MA's), (Start: 76 @29721 has 5 MA's), (Start: 79 @29724 has 1 MA's), (Start: 81 @29730 has 3 MA's), (134, 29940), (135, 29946), (150, 29991), (153, 30003), (168, 30066), (173, 30099), (205, 30204), (252, 30366), (307, 30501), (316, 30525), (360, 30717), (367, 30765),

Gene: Tongui_43 Start: 28445, Stop: 29551, Start Num: 71
Candidate Starts for Tongui_43:
(Start: 71 @28445 has 34 MA's), (Start: 81 @28466 has 3 MA's), (134, 28676), (153, 28739), (173, 28835), (205, 28940), (249, 29090), (327, 29303), (357, 29444), (367, 29501),

Gene: Tracker_66 Start: 52125, Stop: 50926, Start Num: 67
Candidate Starts for Tracker_66:
(Start: 67 @52125 has 140 MA's), (146, 51837), (147, 51834), (152, 51813), (153, 51807), (229, 51534), (232, 51522), (236, 51504), (246, 51471), (250, 51456), (267, 51369), (295, 51282), (309, 51240), (310, 51237), (311, 51234), (327, 51180), (338, 51123), (339, 51120), (340, 51117), (343, 51108), (364, 51000), (370, 50976),

Gene: TripleC_37 Start: 27531, Stop: 26590, Start Num: 70
Candidate Starts for TripleC_37:
(Start: 70 @27531 has 13 MA's), (123, 27330), (153, 27222), (217, 27015), (224, 26994), (246, 26928), (249, 26916), (301, 26823), (313, 26784), (318, 26766), (334, 26703), (335, 26694), (349, 26640),

Gene: Troll4_57 Start: 43237, Stop: 44415, Start Num: 60
Candidate Starts for Troll4_57:
(8, 42955), (11, 42985), (19, 43048), (Start: 60 @43237 has 26 MA's), (Start: 85 @43285 has 3 MA's), (91, 43324), (94, 43336), (118, 43435), (138, 43498), (153, 43552), (164, 43600), (188, 43666), (223, 43780), (229, 43807), (236, 43837), (249, 43882), (323, 44116), (337, 44182), (340, 44191), (343, 44200), (369, 44326), (382, 44407),

Gene: TurboVicky_43 Start: 27685, Stop: 28698, Start Num: 30
Candidate Starts for TurboVicky_43:
(Start: 30 @27685 has 19 MA's), (88, 27814), (107, 27895), (125, 27964), (153, 28048), (179, 28132), (198, 28183), (214, 28252), (215, 28255), (252, 28357), (253, 28363), (274, 28447), (291, 28462), (306, 28513), (320, 28561), (335, 28624),

Gene: Turuncu_69 Start: 52823, Stop: 51867, Start Num: 129
Candidate Starts for Turuncu_69:
(Start: 129 @52823 has 1 MA's), (137, 52799), (146, 52763), (153, 52733), (164, 52685), (187, 52622), (250, 52403), (267, 52316), (275, 52292), (289, 52244), (311, 52175), (340, 52058), (343, 52049), (346, 52034), (370, 51917),

Gene: Typher_45 Start: 27803, Stop: 28816, Start Num: 30
Candidate Starts for Typher_45:
(Start: 30 @27803 has 19 MA's), (88, 27932), (107, 28013), (125, 28082), (153, 28166), (179, 28250), (198, 28301), (214, 28370), (215, 28373), (252, 28475), (253, 28481), (274, 28565), (291, 28580), (306, 28631), (320, 28679), (335, 28742),

Gene: UNTPL_52 Start: 36210, Stop: 37214, Start Num: 55
Candidate Starts for UNTPL_52:
(3, 35823), (9, 35979), (20, 36057), (Start: 55 @36210 has 1 MA's), (Start: 58 @36216 has 17 MA's), (107, 36381), (113, 36405), (142, 36513), (151, 36546), (156, 36570), (169, 36630), (193, 36660),

(195, 36666), (198, 36678), (199, 36681), (202, 36705), (205, 36714), (215, 36750), (246, 36840), (265, 36936), (306, 37035), (307, 37038), (310, 37047), (350, 37191),

Gene: Urla_40 Start: 27482, Stop: 28432, Start Num: 67
Candidate Starts for Urla_40:
(Start: 67 @27482 has 140 MA's), (103, 27614), (106, 27626), (107, 27629), (110, 27644), (113, 27653), (139, 27749), (153, 27797), (156, 27812), (167, 27854), (171, 27878), (196, 27926), (198, 27935), (234, 28052), (243, 28079), (246, 28088), (317, 28283), (326, 28313), (335, 28358), (336, 28361), (343, 28388), (344, 28391),

Gene: Vallejo_42 Start: 27675, Stop: 28622, Start Num: 67
Candidate Starts for Vallejo_42:
(Start: 67 @27675 has 140 MA's), (89, 27744), (103, 27807), (106, 27819), (107, 27822), (113, 27846), (139, 27942), (153, 27990), (161, 28020), (167, 28047), (196, 28119), (243, 28269), (246, 28278), (272, 28365), (297, 28413), (317, 28473), (335, 28548), (336, 28551), (343, 28578), (344, 28581),

Gene: Virizion_71 Start: 47534, Stop: 46536, Start Num: 65
Candidate Starts for Virizion_71:
(Start: 65 @47534 has 7 MA's), (Start: 80 @47522 has 1 MA's), (153, 47243), (154, 47240), (189, 47111), (198, 47084), (205, 47048), (229, 46973), (232, 46961), (249, 46898), (323, 46799), (333, 46757), (340, 46724), (343, 46715), (357, 46643), (359, 46637), (372, 46553),

Gene: Visconti_58 Start: 43117, Stop: 44295, Start Num: 60
Candidate Starts for Visconti_58:
(8, 42835), (11, 42865), (19, 42928), (Start: 60 @43117 has 26 MA's), (Start: 85 @43165 has 3 MA's), (91, 43204), (94, 43216), (118, 43315), (138, 43378), (153, 43432), (164, 43480), (188, 43546), (223, 43660), (229, 43687), (236, 43717), (249, 43762), (323, 43996), (337, 44062), (340, 44071), (343, 44080), (369, 44206), (382, 44287),

Gene: Vulture_39 Start: 27432, Stop: 28382, Start Num: 73
Candidate Starts for Vulture_39:
(34, 27378), (Start: 73 @27432 has 17 MA's), (107, 27579), (111, 27597), (137, 27687), (151, 27738), (161, 27777), (163, 27792), (168, 27810), (169, 27822), (194, 27870), (226, 27987), (242, 28026), (246, 28038), (272, 28125), (297, 28173), (317, 28233), (335, 28308), (336, 28311), (343, 28338), (344, 28341),

Gene: WaddleDee_90 Start: 78467, Stop: 79393, Start Num: 78
Candidate Starts for WaddleDee_90:
(Start: 60 @78446 has 26 MA's), (Start: 78 @78467 has 4 MA's), (93, 78542), (102, 78581), (153, 78755), (156, 78770), (171, 78845), (192, 78872), (193, 78875), (199, 78896), (210, 78959), (222, 78980), (225, 78995), (228, 79007), (301, 79172), (307, 79193), (334, 79292), (335, 79301), (343, 79331),

Gene: WaldoWhy_59 Start: 43170, Stop: 44348, Start Num: 60
Candidate Starts for WaldoWhy_59:
(8, 42888), (11, 42918), (19, 42981), (Start: 60 @43170 has 26 MA's), (Start: 85 @43218 has 3 MA's), (91, 43257), (94, 43269), (118, 43368), (138, 43431), (153, 43485), (164, 43533), (188, 43599), (223, 43713), (229, 43740), (236, 43770), (249, 43815), (323, 44049), (337, 44115), (340, 44124), (343, 44133), (369, 44259), (382, 44340),

Gene: Wawa_41 Start: 27508, Stop: 28455, Start Num: 67
Candidate Starts for Wawa_41:

(Start: 67 @27508 has 140 MA's), (103, 27640), (106, 27652), (107, 27655), (113, 27679), (139, 27775), (153, 27823), (161, 27853), (167, 27880), (196, 27952), (243, 28102), (246, 28111), (272, 28198), (297, 28246), (317, 28306), (335, 28381), (336, 28384), (343, 28411), (344, 28414),

Gene: Wayne_41 Start: 27626, Stop: 28573, Start Num: 67
Candidate Starts for Wayne_41:
(Start: 67 @27626 has 140 MA's), (106, 27770), (107, 27773), (110, 27788), (116, 27815), (136, 27878), (139, 27893), (153, 27941), (163, 27986), (167, 27998), (171, 28022), (214, 28148), (242, 28217), (243, 28220), (297, 28364), (317, 28424), (335, 28499), (336, 28502), (343, 28529), (344, 28532),

Gene: Weiss13_69 Start: 51402, Stop: 52571, Start Num: 67
Candidate Starts for Weiss13_69:
(Start: 67 @51402 has 140 MA's), (Start: 80 @51417 has 1 MA's), (87, 51459), (94, 51492), (149, 51693), (153, 51708), (190, 51840), (205, 51903), (206, 51918), (236, 52008), (244, 52035), (307, 52236), (309, 52242), (311, 52248), (338, 52359), (340, 52365), (367, 52497), (377, 52557),

Gene: Wentworth_66 Start: 47288, Stop: 46290, Start Num: 65
Candidate Starts for Wentworth_66:
(38, 47339), (Start: 65 @47288 has 7 MA's), (Start: 80 @47276 has 1 MA's), (153, 46997), (154, 46994), (175, 46898), (198, 46838), (205, 46802), (229, 46727), (232, 46715), (246, 46664), (249, 46652), (333, 46511), (340, 46478), (343, 46469), (357, 46397), (359, 46391), (363, 46367),

Gene: Wheezy_66 Start: 52339, Stop: 51140, Start Num: 67
Candidate Starts for Wheezy_66:
(Start: 67 @52339 has 140 MA's), (146, 52051), (147, 52048), (152, 52027), (153, 52021), (229, 51748), (232, 51736), (236, 51718), (246, 51685), (250, 51670), (267, 51583), (295, 51496), (310, 51451), (311, 51448), (338, 51337), (339, 51334), (340, 51331), (343, 51322), (359, 51244), (364, 51214), (370, 51190),

Gene: WhoseManz_67 Start: 49542, Stop: 48343, Start Num: 72
Candidate Starts for WhoseManz_67:
(Start: 72 @49542 has 7 MA's), (Start: 128 @49323 has 1 MA's), (136, 49299), (146, 49260), (147, 49257), (153, 49230), (157, 49212), (169, 49155), (229, 48957), (250, 48879), (255, 48852), (266, 48795), (267, 48792), (295, 48699), (310, 48654), (311, 48651), (316, 48639), (327, 48597), (340, 48534), (343, 48525), (363, 48423), (364, 48417), (370, 48393),

Gene: Wilkos_68 Start: 47443, Stop: 46445, Start Num: 65
Candidate Starts for Wilkos_68:
(38, 47494), (Start: 65 @47443 has 7 MA's), (Start: 80 @47431 has 1 MA's), (153, 47152), (154, 47149), (189, 47020), (198, 46993), (205, 46957), (229, 46882), (232, 46870), (246, 46819), (249, 46807), (333, 46666), (340, 46633), (343, 46624), (357, 46552), (359, 46546), (363, 46522),

Gene: Wojtek_61 Start: 42920, Stop: 44134, Start Num: 67
Candidate Starts for Wojtek_61:
(Start: 67 @42920 has 140 MA's), (Start: 80 @42935 has 1 MA's), (106, 43064), (130, 43148), (147, 43199), (153, 43226), (190, 43340), (198, 43367), (206, 43418), (213, 43433), (221, 43448), (229, 43478), (250, 43556), (295, 43745), (329, 43853), (337, 43901), (340, 43910), (348, 43943), (366, 44036), (382, 44126),

Gene: Wollypog_46 Start: 33478, Stop: 34599, Start Num: 77
Candidate Starts for Wollypog_46:

(Start: 77 @33478 has 1 MA's), (124, 33679), (130, 33697), (148, 33751), (153, 33769), (169, 33844), (229, 34045), (231, 34054), (267, 34210), (290, 34234), (295, 34246), (296, 34252), (309, 34288), (357, 34498), (367, 34549),

Gene: WonderBoy_38 Start: 26303, Stop: 27253, Start Num: 67
Candidate Starts for WonderBoy_38:
(Start: 67 @26303 has 140 MA's), (103, 26435), (106, 26447), (107, 26450), (113, 26474), (139, 26570), (153, 26618), (156, 26633), (167, 26675), (171, 26699), (194, 26741), (196, 26747), (234, 26873), (242, 26897), (243, 26900), (246, 26909), (297, 27044), (317, 27104), (335, 27179), (343, 27209), (344, 27212),

Gene: Xenia2_63 Start: 42310, Stop: 43470, Start Num: 67
Candidate Starts for Xenia2_63:
(51, 42286), (Start: 67 @42310 has 140 MA's), (Start: 80 @42322 has 1 MA's), (106, 42451), (131, 42541), (134, 42544), (147, 42586), (153, 42613), (156, 42628), (171, 42694), (198, 42754), (206, 42808), (221, 42838), (229, 42868), (248, 42940), (268, 43033), (282, 43042), (296, 43087), (325, 43180), (337, 43237), (340, 43246), (343, 43255), (348, 43279), (366, 43372),

Gene: Yara_62 Start: 46145, Stop: 45150, Start Num: 74
Candidate Starts for Yara_62:
(Start: 74 @46145 has 1 MA's), (Start: 80 @46136 has 1 MA's), (153, 45857), (154, 45854), (198, 45698), (205, 45662), (211, 45635), (229, 45587), (232, 45575), (246, 45524), (249, 45512), (327, 45401), (333, 45371), (340, 45338), (343, 45329), (357, 45257), (363, 45227),

Gene: Yelo_68 Start: 51781, Stop: 52950, Start Num: 67
Candidate Starts for Yelo_68:
(Start: 67 @51781 has 140 MA's), (Start: 80 @51796 has 1 MA's), (87, 51838), (94, 51871), (149, 52072), (153, 52087), (174, 52186), (190, 52219), (205, 52282), (206, 52297), (236, 52387), (244, 52414), (307, 52615), (309, 52621), (311, 52627), (338, 52738), (340, 52744), (367, 52876), (377, 52936),

Gene: Yikes_67 Start: 44984, Stop: 46147, Start Num: 67
Candidate Starts for Yikes_67:
(Start: 67 @44984 has 140 MA's), (Start: 80 @44999 has 1 MA's), (106, 45128), (131, 45218), (134, 45221), (143, 45257), (153, 45290), (190, 45404), (198, 45431), (205, 45470), (206, 45485), (221, 45515), (229, 45545), (236, 45575), (250, 45623), (264, 45698), (271, 45719), (295, 45758), (327, 45860), (337, 45914), (340, 45923), (343, 45932), (348, 45956), (366, 46049), (382, 46139),

Gene: Yndexa_67 Start: 51527, Stop: 50328, Start Num: 72
Candidate Starts for Yndexa_67:
(Start: 72 @51527 has 7 MA's), (Start: 128 @51308 has 1 MA's), (136, 51284), (145, 51248), (146, 51245), (147, 51242), (153, 51215), (157, 51197), (169, 51140), (229, 50942), (250, 50864), (267, 50777), (295, 50684), (300, 50669), (310, 50639), (311, 50636), (316, 50624), (327, 50582), (340, 50519), (343, 50510), (363, 50408), (364, 50402),

Gene: Zanella_42 Start: 27511, Stop: 28524, Start Num: 30
Candidate Starts for Zanella_42:
(Start: 30 @27511 has 19 MA's), (107, 27721), (125, 27790), (153, 27874), (179, 27958), (198, 28009), (214, 28078), (215, 28081), (252, 28183), (253, 28189), (274, 28273), (291, 28288), (306, 28339), (320, 28387), (335, 28450),

Gene: Zany_63 Start: 44385, Stop: 45548, Start Num: 67
Candidate Starts for Zany_63:

(Start: 67 @44385 has 140 MA's), (Start: 80 @44400 has 1 MA's), (106, 44529), (131, 44619), (134, 44622), (143, 44658), (153, 44691), (190, 44805), (198, 44832), (205, 44871), (206, 44886), (221, 44916), (229, 44946), (236, 44976), (250, 45024), (295, 45159), (327, 45261), (337, 45315), (340, 45324), (343, 45333), (348, 45357), (366, 45450), (382, 45540),

Gene: Zenon_71 Start: 51725, Stop: 52894, Start Num: 67
Candidate Starts for Zenon_71:
(Start: 67 @51725 has 140 MA's), (Start: 80 @51740 has 1 MA's), (87, 51782), (94, 51815), (149, 52016), (153, 52031), (190, 52163), (205, 52226), (206, 52241), (244, 52358), (307, 52559), (309, 52565), (311, 52571), (338, 52682), (340, 52688), (367, 52820), (377, 52880),

Gene: Zion_69 Start: 50318, Stop: 49200, Start Num: 75
Candidate Starts for Zion_69:
(Start: 75 @50318 has 8 MA's), (105, 50183), (119, 50132), (138, 50069), (153, 50018), (162, 49976), (169, 49943), (173, 49922), (193, 49880), (196, 49871), (198, 49862), (205, 49826), (221, 49772), (264, 49589), (335, 49400), (340, 49379), (347, 49349), (361, 49277), (365, 49262), (366, 49253),

Gene: Zooman_97 Start: 74278, Stop: 73343, Start Num: 58
Candidate Starts for Zooman_97:
(Start: 58 @74278 has 17 MA's), (93, 74176), (94, 74173), (97, 74161), (104, 74125), (122, 74071), (143, 74020), (150, 73993), (153, 73981), (169, 73897), (180, 73891), (190, 73876), (197, 73852), (219, 73765), (227, 73735), (306, 73552), (307, 73549), (320, 73504), (336, 73438), (343, 73411),

Gene: Zorro_42 Start: 27635, Stop: 28582, Start Num: 67
Candidate Starts for Zorro_42:
(Start: 67 @27635 has 140 MA's), (103, 27767), (106, 27779), (107, 27782), (113, 27806), (139, 27902), (153, 27950), (161, 27980), (167, 28007), (196, 28079), (243, 28229), (246, 28238), (272, 28325), (297, 28373), (317, 28433), (335, 28508), (343, 28538), (344, 28541),