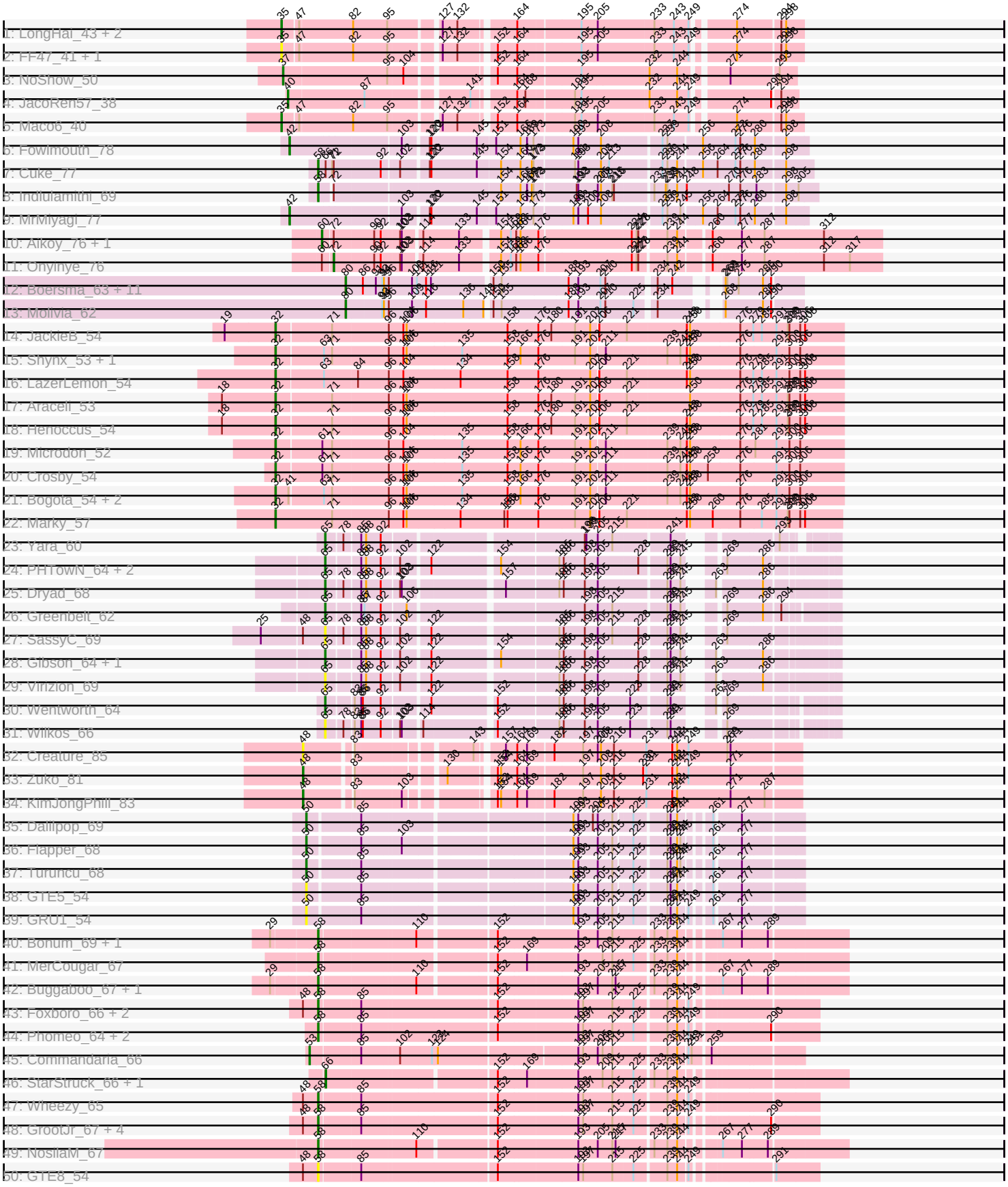
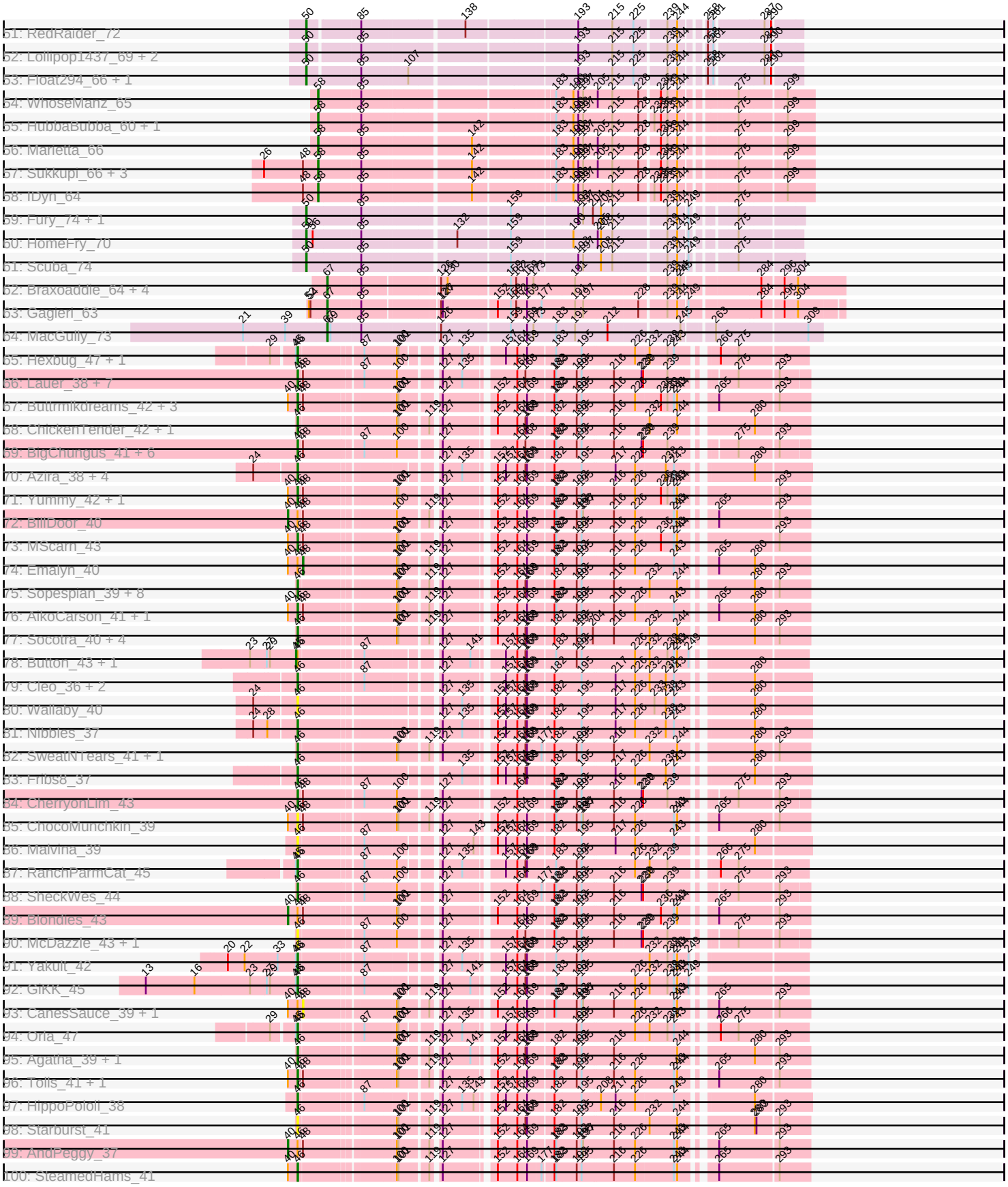
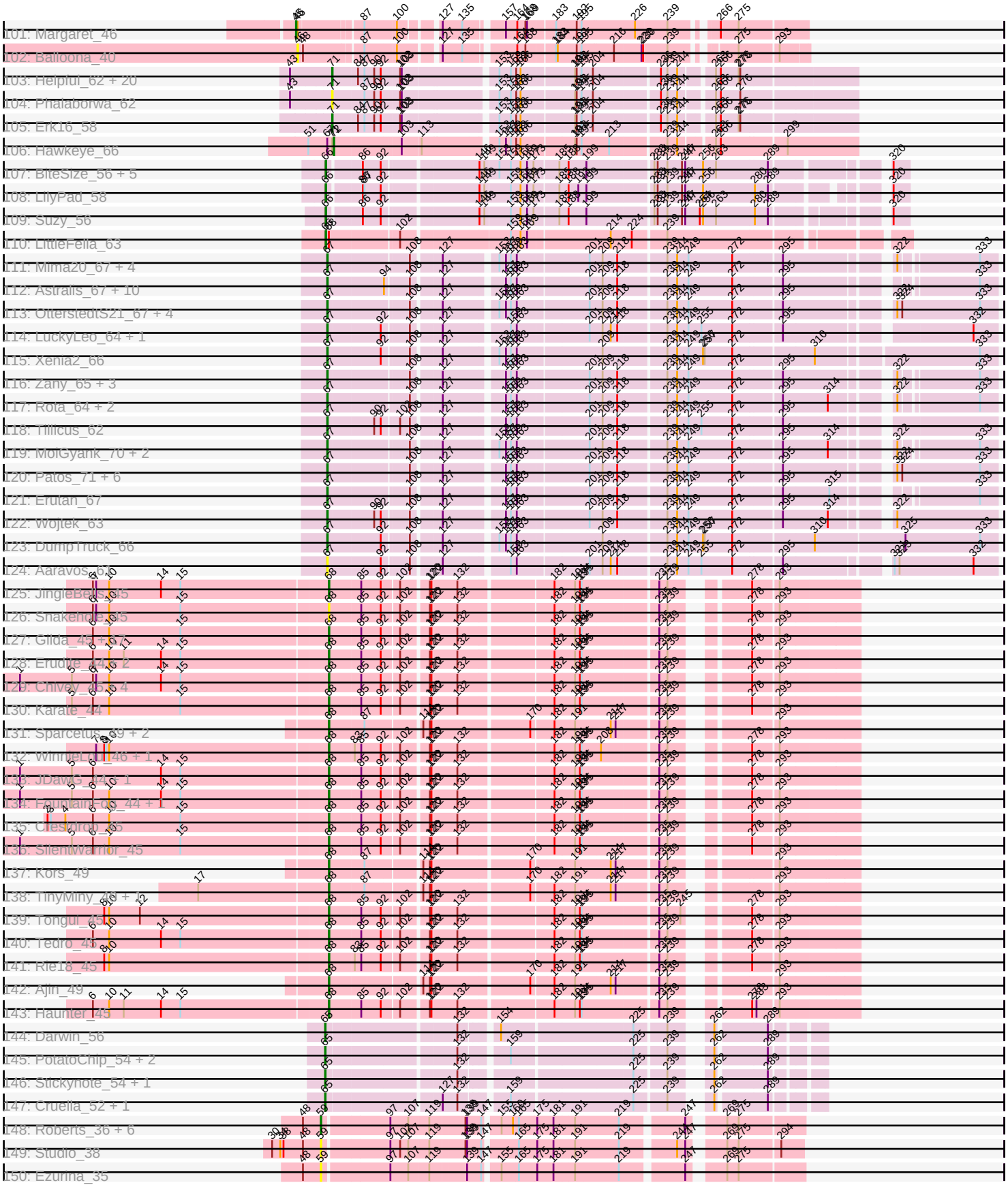
Pham 347122


1: LongHal_43 + 2
2: FF47_41 + 1
3: NoShow_50
4: JacoRen57_38
5: Maco6_40
6: Fowlmouth_78
7: Cuke_77
8: Indiulamithi_69
9: MrMiyagi_77
10: Alkoy_76 + 1
11: Onyinye_76
12: Boersma_63 + 11
13: Molivia_62
14: JackieB_54
15: Shynx_53 + 1
16: LazerLemon_54
17: Araceli_53
18: Henoccus_54
19: Microdon_52
20: Crosby_54
21: Bogota_54 + 2
22: Marky_57
23: Yara_60
24: PHTownN_64 + 2
25: Dryad_68
26: Greenbelt_62
27: SassyC_69
28: Gibson_64 + 1
29: Vinzion_69
30: Wentworth_64
31: Wilkos_66
32: Creature_85
33: Zuko_81
34: KimJongPhill_83
35: Dallipop_69
36: Flapper_68
37: Turuncu_68
38: GTE5_54
39: GRU1_54
40: Bonum_69 + 1
41: MerCougar_67
42: Buggaboo_67 + 1
43: Foxboro_66 + 2
44: Phomeo_64 + 2
45: Commandaria_66
46: StarStruck_66 + 1
47: Wheezy_65
48: GrootJr_67 + 4
49: NosilaM_67
50: GTE8_54

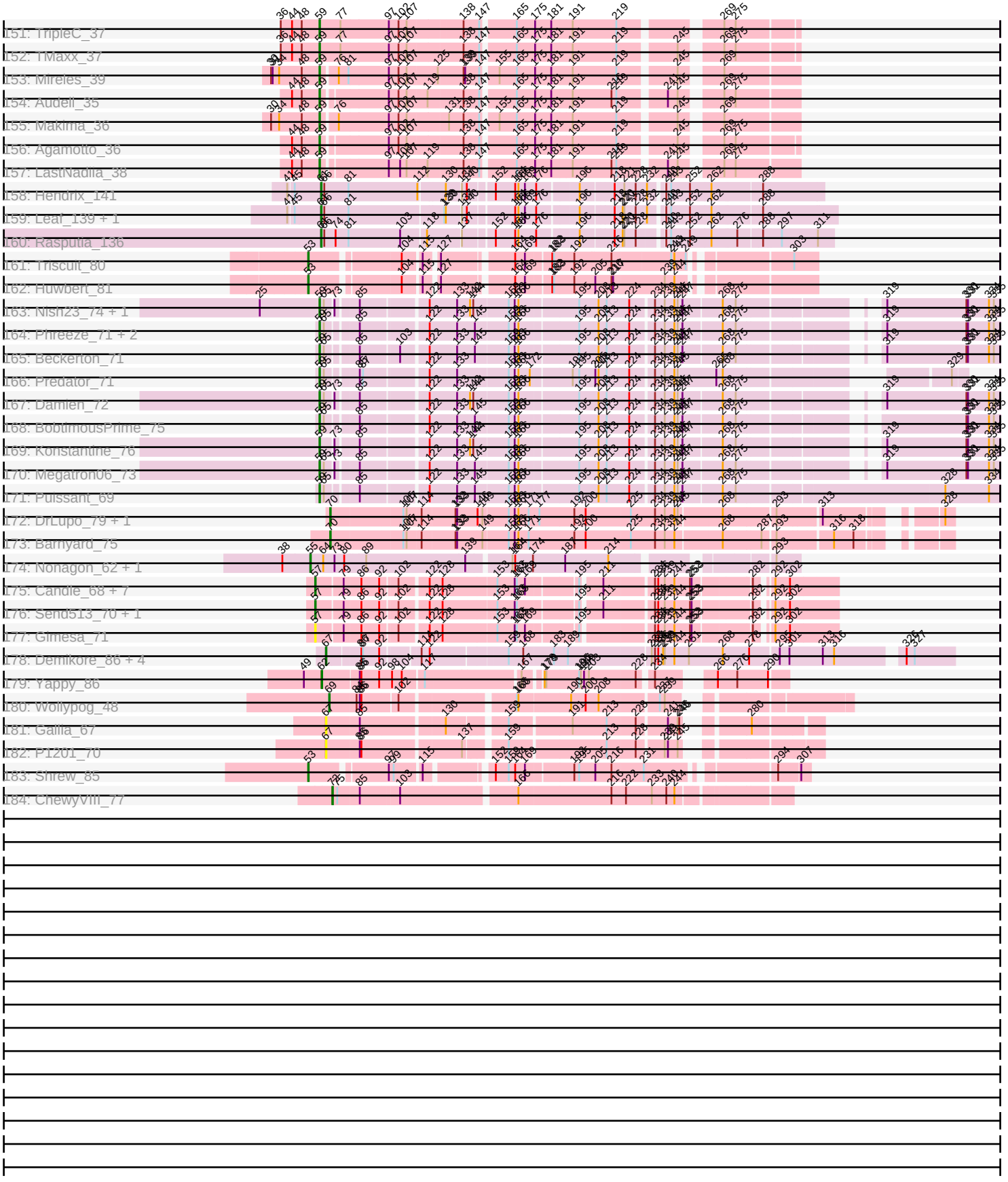
Pham 347122


51: RedRaider_72
52: Lollipop1437_69 + 2
53: Floatz94_66 + 1
54: WhoseManz_65
55: HubbaBubba_60 + 1
56: Marietta_66
57: Sukkupi_66 + 3
58: IDyn_64
59: Fury_74 + 1
60: HomeFry_70
61: Scuba_74
62: Braxoaddie_64 + 4
63: Gaglen_63
64: MacGully_73
65: Hexbug_47 + 1
66: Lauer_38 + 7
67: Buttmilkdreams_42 + 3
68: ChickenTender_42 + 1
69: BigChungus_41 + 6
70: Azira_38 + 4
71: Yummy_42 + 1
72: BillDoor_40
73: MScam_43
74: Emalyn_40
75: Sopesplan_39 + 8
76: AlkoCarson_41 + 1
77: Socotra_40 + 4
78: Button_43 + 1
79: Cleo_36 + 2
80: Wallaby_40
81: Nibbles_37
82: SweatNTears_41 + 1
83: Fribs8_37
84: CherryonLim_43
85: ChocoMunchkin_39
86: Malvina_39
87: RanchPartCat_45
88: SneckWes_44
89: Blondies_43
90: McDazzle_43 + 1
91: Yakult_42
92: GIKK_45
93: CanesSauce_39 + 1
94: Orla_47
95: Agatha_39 + 1
96: Tolls_41 + 1
97: HippoPolo8_38
98: Starburst_41
99: AndPeggy_37
100: SteamedHams_41

Pham 347122


101: Margaret_46
102: Balloona_40
103: Helpful_62 + 20
104: Phalaborwa_62
105: Erk16_58
106: Hawkeye_66
107: BiteSize_56 + 5
108: LilyPad_58
109: Suzy_56
110: LittleFella_63
111: Mima20_67 + 4
112: Astralis_67 + 10
113: OtterstedtS21_67 + 4
114: LuckyLeo_64 + 1
115: Xenia2_66
116: Zany_65 + 3
117: Rota_64 + 2
118: Tillicus_62
119: MolGyank_70 + 2
120: Patos_71 + 6
121: Erutan_67
122: Wojtek_63
123: DumpTruck_66
124: Aaravos_61
125: JingleBells_75
126: Snakehole_65
127: Gilda_45 + 17
128: Erudite_47 + 2
129: Chivey_46 + 4
130: Karate_44
131: Sparcetus_69 + 2
132: Winnie_46 + 1
133: JDavid_44 + 1
134: Fauntain_44 + 1
135: Crestone_45
136: SilentWarrior_45
137: Kors_49
138: TinyMiny_48 + 1
139: Tongui_45
140: Tedro_45
141: Rie18_45
142: Ajin_49
143: Haunter_45
144: Darwin_56
145: PotatoChip_54 + 2
146: Stickynote_54 + 1
147: Cruella_52 + 1
148: Roberts_36 + 6
149: Studio_38
150: Ezunna_35

Pham 347122


151: TripleC_37
152: TMaxx_37
153: Mireles_39
154: Audell_35
155: Makima_36
156: Agamotto_36
157: LastNadila_38
158: Hendrix_141
159: Leaf_139 + 1
160: Rasputia_136
161: Triscuit_80
162: Ruwbert_81
163: Nish23_74 + 1
164: Phreeze_71 + 2
165: Beckerton_71
166: Predator_71
167: Damien_72
168: BobtimousPrime_75
169: Konstantine_76
170: Megatron06_73
171: Puissant_69
172: DrLupo_79 + 1
173: Barnyard_75
174: Nonagon_62 + 1
175: Candle_68 + 7
176: Send513_70 + 1
177: Gimesa_71
178: Demikore_86 + 4
179: Yappy_86
180: Wollypog_48
181: Galfia_67
182: P1201_70
183: Shrew_85
184: ChewyVm_77

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 347122 Report

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

Pham number 347122 has 386 members, 48 are drafts.

Phages represented in each track:
- Track 1 : LongHai_43, Salvus_43, Muddy_42
- Track 2 : FF47_41, 8UZL_42
- Track 3 : NoShow_50
- Track 4 : JacoRen57_38
- Track 5 : Maco6_40
- Track 6 : Fowlmouth_78
- Track 7 : Cuke_77
- Track 8 : Indlulamithi_69
- Track 9 : MrMiyagi_77
- Track 10 : Aikoy_76, Leopard_75
- Track 11 : Onyinye_76
- Track 12 : Boersma_63, Heylee_63, Amavida_62, Gorgeous_60, Ichor_60, Thunderclap_60, SorJuana_60, Amigo_61, Rings_61, Jaek_60, Yeezus_60, Anansi_60
- Track 13 : Molivia_62
- Track 14 : JackieB_54
- Track 15 : Shynx_53, Stuff_53
- Track 16 : LazerLemon_54
- Track 17 : Araceli_53
- Track 18 : Henoccus_54
- Track 19 : Microdon_52
- Track 20 : Crosby_54
- Track 21 : Bogota_54, Intolerant_51, UNTPL_55
- Track 22 : Marky_57
- Track 23 : Yara_60
- Track 24 : PHTowN_64, ShakeNBake_64, Lizz_64
- Track 25 : Dryad_68
- Track 26 : Greenbelt_62
- Track 27 : SassyC_69
- Track 28 : Gibson_64, Rooney_64
- Track 29 : Virizion_69
- Track 30 : Wentworth_64
- Track 31 : Wilkos_66
- Track 32 : Creature_85
- Track 33 : Zuko_81
- Track 34 : KimJongPhill_83
- Track 35 : Dalilpop_69

• Track 36 : Flapper_68
• Track 37 : Turuncu_68
• Track 38 : GTE5_54
• Track 39 : GRU1_54
• Track 40 : Bonum_69, Kabluna_68
• Track 41 : MerCougar_67
• Track 42 : Buggaboo_67, SuperSulley_67
• Track 43 : Foxboro_66, Tracker_65, Arti_64
• Track 44 : Phomeo_64, Jifall16_64, KidneyBean_65
• Track 45 : Commandaria_66
• Track 46 : StarStruck_66, Outis_66
• Track 47 : Wheezy_65
• Track 48 : GrootJr_67, Kurt_65, NovumRegina_65, Emianna_65, NatB6_65
• Track 49 : NosilaM_67
• Track 50 : GTE8_54
• Track 51 : RedRaider_72
• Track 52 : Lollipop1437_69, Ennea_72, Patio_67
• Track 53 : Float294_66, Skysand_67
• Track 54 : WhoseManz_65
• Track 55 : HubbaBubba_60, NadineRae_65
• Track 56 : Marietta_66
• Track 57 : Sukkupi_66, Yndexa_66, Pemberton_67, BiPauneto_68
• Track 58 : IDyn_64
• Track 59 : Fury_74, Pleakley_74
• Track 60 : HomeFry_70
• Track 61 : Scuba_74
• Track 62 : Braxoaddie_64, CoffeeBean_64, Maselop_64, Apiary_64, Polyyuki_64
• Track 63 : Gagieri_63
• Track 64 : MacGully_73
• Track 65 : Hexbug_47, Nodigi_47
• Track 66 : Lauer_38, Elinal_45, Bavilard_41, KayGee_43, Yucky_44, Vine_44, Pons_43, Tarnish_42
• Track 67 : Buttrmlkdreams_42, SketchMex_40, Troje_42, Biskit_42
• Track 68 : ChickenTender_42, MunkgeeRoachy_38
• Track 69 : BigChungus_41, CocoaPuff_42, Feastonyeet_41, Mayweather_45, SummitAcademy_41, MAnor_43, PotPie_42
• Track 70 : Azira_38, Wolfwood_38, Survivors_38, MaVan_38, Zareef_38
• Track 71 : Yummy_42, Horseradish_42
• Track 72 : BillDoor_40
• Track 73 : MScarn_43
• Track 74 : Emalyn_40
• Track 75 : Sopespian_39, RADical_41, Axym_39, RSchmailzl_40, Eliott_40, GoldHunter_39, Quasar_40, PsychoKiller_39, Carsonalex_43
• Track 76 : AikoCarson_41, Amok_41
• Track 77 : Socotra_40, RedBaron_43, Bubble_38, Burnsey_39, Typhonomachy_38
• Track 78 : Button_43, Jamzy_45
• Track 79 : Cleo_36, Gibbous_36, Dre3_36
• Track 80 : Wallaby_40
• Track 81 : Nibbles_37
• Track 82 : SweatNTears_41, Nina_39
• Track 83 : Fribs8_37
• Track 84 : CherryonLim_43
• Track 85 : ChocoMunchkin_39

• Track 86 : Malvina_39
• Track 87 : RanchParmCat_45
• Track 88 : SheckWes_44
• Track 89 : Blondies_43
• Track 90 : McDazzle_43, ElJefes_42
• Track 91 : Yakult_42
• Track 92 : GiKK_45
• Track 93 : CanesSauce_39, CaramelLatte_39
• Track 94 : Orla_47
• Track 95 : Agatha_39, Cozz_38
• Track 96 : Tolls_41, Yarn_37
• Track 97 : HippoPololi_38
• Track 98 : Starburst_41
• Track 99 : AndPeggy_37
• Track 100 : SteamedHams_41
• Track 101 : Margaret_46
• Track 102 : Balloona_40
• Track 103 : Helpful_62, Prager_59, SuperheroCarly_60, Adjutor_58, WaldoWhy_61, PLot_59, Visconti_60, PBI1_56, Giuseppe_60, Butterscotch_58, Chill_61, Mopey_60, Penelope2018_59, SirHarley_61, KandZ_58, BigMama_57, Delton_60, Troll4_59, Gumball_59, Thoth_59, Nova_58
• Track 104 : Phalaborwa_62
• Track 105 : Erk16_58
• Track 106 : Hawkeye_66
• Track 107 : BiteSize_56, Terapin_57, Sienna_56, Madi_56, Beyoncage_56, Djokovic_56
• Track 108 : LilyPad_58
• Track 109 : Suzy_56
• Track 110 : LittleFella_63
• Track 111 : Mima20_67, Pywacket_64, Alephilan_68, DoobyDoo_66, LavAbarElk_67
• Track 112 : Astralis_67, Charminar_66, RazorC_67, Avian_65, Genamy16_70, Alyssamiracle_70, NovaSharks_69, Rumi_68, Stormer_67, Jamemuya19_66, Riduram_66
• Track 113 : OtterstedtS21_67, BirthdayBoy_69, Rukungu_69, Fulcrum_67, GOATification_67
• Track 114 : LuckyLeo_64, Apeppi_62
• Track 115 : Xenia2_66
• Track 116 : Zany_65, Yikes_69, GretelLyn_67, Sadboi_68
• Track 117 : Rota_64, Nettle_68, DaviePasture_67
• Track 118 : Tillicus_62
• Track 119 : MoiGyank_70, Sampudon_67, Jalebi_66
• Track 120 : Patos_71, Ranch_67, ParvusTarda_66, Lila22_68, Gibbin_69, NorManre_71, Lambo_65
• Track 121 : Erutan_67
• Track 122 : Wojtek_63
• Track 123 : DumpTruck_66
• Track 124 : Aaravos_61
• Track 125 : JingleBells_45
• Track 126 : Snakehole_45
• Track 127 : Gilda_45, Rachella_45, OhDear_45, SafetyGuy_45, OverHedge_45, Anakin_45, Krampus_45, PhunaPhoke_45, Tiggy93_45, AnnaSerena_45, Pharpay_45, CoolCookie_45, Neptune_45, Potty_45, Artiphact_45, NarutoRun_45,

Cybele_45, Kate_46
• Track 128 : Erudite_44, Dauntless_44, MortySmith_43
• Track 129 : Chivey_45, Hiddenleaf_45, FreddieHg_45, Annapurna_45, DannyDe_45
• Track 130 : Karate_44
• Track 131 : Sparcetus_49, Bramble_49, LordBart_49
• Track 132 : WinnieLou_46, Hager_46
• Track 133 : JDawG_44, Aesir_44
• Track 134 : FountainFog_44, Poultress_44
• Track 135 : Crestdrop_45
• Track 136 : SilentWarrior_45
• Track 137 : Kors_49
• Track 138 : TinyMiny_49, RikSengupta_49
• Track 139 : Tongui_45
• Track 140 : Tedro_45
• Track 141 : Rie18_45
• Track 142 : Ajin_49
• Track 143 : Haunter_45
• Track 144 : Darwin_56
• Track 145 : PotatoChip_54, PeteyPab_53, Zion_54
• Track 146 : Stickynote_54, Kimchi1738_53
• Track 147 : Cruella_52, C3PO_52
• Track 148 : Roberts_36, Gerri43_36, CardboardBox_37, AnnabelLee_36, ChipsNGuac_36, Neuvillette_36, ChamoyPickle_38
• Track 149 : Studio_38
• Track 150 : Ezurina_35
• Track 151 : TripleC_37
• Track 152 : TMaxx_37
• Track 153 : Mireles_39
• Track 154 : Audell_35
• Track 155 : Makima_36
• Track 156 : Agamotto_36
• Track 157 : LastNadiia_38
• Track 158 : Hendrix_141
• Track 159 : Leaf_139, Dewdrop_139
• Track 160 : Rasputia_136
• Track 161 : Triscuit_80
• Track 162 : Huwbert_81
• Track 163 : Nish23_74, Cborch11_74
• Track 164 : Phreeze_71, Oaker_72, Thumb_73
• Track 165 : Beckerton_71
• Track 166 : Predator_71
• Track 167 : Damien_72
• Track 168 : BobtimousPrime_75
• Track 169 : Konstantine_76
• Track 170 : Megatron06_73
• Track 171 : Puissant_69
• Track 172 : DrLupo_79, AmandaPanda_79
• Track 173 : Barnyard_75
• Track 174 : Nonagon_62, Commonplace_63
• Track 175 : Candle_68, Rope_70, Papyrus_70, Weiss13_70, MontyDev_72, Nilo_72, Riparian_72, Yelo_69
• Track 176 : Send513_70, Zenon_72
• Track 177 : Gimesa_71

• Track 178 : Demikore_86, Patience_85, SuperSonics_84, Madruga_83, Labelle_84
• Track 179 : Yappy_86
• Track 180 : Wollypog_48
• Track 181 : Gallia_67
• Track 182 : P1201_70
• Track 183 : Shrew_85
• Track 184 : ChewyVIII_77

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

The start number called the most often in the published annotations is 46, it was called in 60 of the 338 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Agatha_39, AikoCarson_41, Amok_41, Axym_39, Azira_38, Balloona_40, Bavilard_41, BigChungus_41, Biskit_42, Bubble_38, Burnsey_39, Buttrmlkdreams_42, Carsonalex_43, CherryonLim_43, ChickenTender_42, ChocoMunchkin_39, Cleo_36, CocoaPuff_42, Cozz_38, Dre3_36, ElJefes_42, Elinal_45, Eliott_40, Feastonyeet_41, Fribs8_37, GiKK_45, Gibbous_36, GoldHunter_39, Hexbug_47, HippoPololi_38, Horseradish_42, KayGee_43, Lauer_38, MAnor_43, MScarn_43, MaVan_38, Malvina_39, Mayweather_45, McDazzle_43, MunkgeeRoachy_38, Nibbles_37, Nina_39, Nodigi_47, Orla_47, Pons_43, PotPie_42, PsychoKiller_39, Quasar_40, RADical_41, RSchmailzl_40, RanchParmCat_45, RedBaron_43, SheckWes_44, SketchMex_40, Socotra_40, Sopespian_39, Starburst_41, SteamedHams_41, SummitAcademy_41, Survivors_38, SweatNTears_41, Tarnish_42, Tolls_41, Troje_42, Typhonomachy_38, Vine_44, Wallaby_40, Wolfwood_38, Yakult_42, Yarn_37, Yucky_44, Yummy_42, Zareef_38,

Genes that have the "Most Annotated" start but do not call it:
• AndPeggy_37, BillDoor_40, Blondies_43, Button_43, CanesSauce_39, CaramelLatte_39, Emalyn_40, Jamzy_45, Margaret_46,

Genes that do not have the "Most Annotated" start:
• 8UZL_42, Aaravos_61, Adjutor_58, Aesir_44, Agamotto_36, Aikoy_76, Ajin_49, Alephilan_68, Alyssamiracle_70, AmandaPanda_79, Amavida_62, Amigo_61, Anakin_45, Anansi_60, AnnaSerena_45, AnnabelLee_36, Annapurna_45, Apeppi_62, Apiary_64, Araceli_53, Arti_64, Artiphact_45, Astralis_67, Audell_35, Avian_65, Barnyard_75, Beckerton_71, Beyoncage_56, BiPauneto_68, BigMama_57, BirthdayBoy_69, BiteSize_56, BobtimousPrime_75, Boersma_63, Bogota_54, Bonum_69, Bramble_49, Braxoaddie_64, Buggaboo_67, Butterscotch_58, C3PO_52, Candle_68, CardboardBox_37, Cborch11_74, ChamoyPickle_38, Charminar_66, ChewyVIII_77, Chill_61, ChipsNGuac_36, Chivey_45, CoffeeBean_64, Commandaria_66, Commonplace_63, CoolCookie_45, Creature_85, Crestdrop_45, Crosby_54, Cruella_52, Cuke_77, Cybele_45, Dalilpop_69, Damien_72, DannyDe_45, Darwin_56, Dauntless_44, DaviePasture_67, Delton_60, Demikore_86, Dewdrop_139, Djokovic_56, DoobyDoo_66, DrLupo_79, Dryad_68, DumpTruck_66, Emianna_65, Ennea_72, Erk16_58, Erudite_44, Erutan_67, Ezurina_35, FF47_41, Flapper_68, Float294_66, FountainFog_44, Fowlmouth_78, Foxboro_66, FreddieHg_45, Fulcrum_67, Fury_74, GOATification_67, GRU1_54, GTE5_54, GTE8_54, Gagieri_63, Gallia_67, Genamy16_70, Gerri43_36, Gibbin_69, Gibson_64,

Gilda_45, Gimesa_71, Giuseppe_60, Gorgeous_60, Greenbelt_62, GretelLyn_67, GrootJr_67, Gumball_59, Hager_46, Haunter_45, Hawkeye_66, Helpful_62, Hendrix_141, Henoccus_54, Heylee_63, Hiddenleaf_45, HomeFry_70, HubbaBubba_60, Huwbert_81, IDyn_64, Ichor_60, Indlulamithi_69, Intolerant_51, JDawG_44, JackieB_54, JacoRen57_38, Jaek_60, Jalebi_66, Jamemuya19_66, Jifall16_64, JingleBells_45, Kabluna_68, KandZ_58, Karate_44, Kate_46, KidneyBean_65, KimJongPhill_83, Kimchi1738_53, Konstantine_76, Kors_49, Krampus_45, Kurt_65, Labelle_84, Lambo_65, LastNadiia_38, LavAbarElk_67, LazerLemon_54, Leaf_139, Leopard_75, Lila22_68, LilyPad_58, LittleFella_63, Lizz_64, Lollipop1437_69, LongHai_43, LordBart_49, LuckyLeo_64, MacGully_73, Maco6_40, Madi_56, Madruga_83, Makima_36, Marietta_66, Marky_57, Maselop_64, Megatron06_73, MerCougar_67, Microdon_52, Mima20_67, Mireles_39, MoiGyank_70, Molivia_62, MontyDev_72, Mopey_60, MortySmith_43, MrMiyagi_77, Muddy_42, NadineRae_65, NarutoRun_45, NatB6_65, Neptune_45, Nettle_68, Neuvillette_36, Nilo_72, Nish23_74, NoShow_50, Nonagon_62, NorManre_71, NosilaM_67, NovaSharks_69, Nova_58, NovumRegina_65, Oaker_72, OhDear_45, Onyinye_76, OtterstedtS21_67, Outis_66, OverHedge_45, P1201_70, PBI1_56, PHTowN_64, PLot_59, Papyrus_70, ParvusTarda_66, Patience_85, Patio_67, Patos_71, Pemberton_67, Penelope2018_59, PeteyPab_53, Phalaborwa_62, Pharpay_45, Phomeo_64, Phreeze_71, PhunaPhoke_45, Pleakley_74, Polyyuki_64, PotatoChip_54, Potty_45, Poultress_44, Prager_59, Predator_71, Puissant_69, Pywacket_64, Rachella_45, Ranch_67, Rasputia_136, RazorC_67, RedRaider_72, Riduram_66, Rie18_45, RikSengupta_49, Rings_61, Riparian_72, Roberts_36, Rooney_64, Rope_70, Rota_64, Rukungu_69, Rumi_68, Sadboi_68, SafetyGuy_45, Salvus_43, Sampudon_67, SassyC_69, Scuba_74, Send513_70, ShakeNBake_64, Shrew_85, Shynx_53, Sienna_56, SilentWarrior_45, SirHarley_61, Skysand_67, Snakehole_45, SorJuana_60, Sparcetus_49, StarStruck_66, Stickynote_54, Stormer_67, Studio_38, Stuff_53, Sukkupi_66, SuperSonics_84, SuperSulley_67, SuperheroCarly_60, Suzy_56, TMaxx_37, Tedro_45, Terapin_57, Thoth_59, Thumb_73, Thunderclap_60, Tiggy93_45, Tillicus_62, TinyMiny_49, Tongui_45, Tracker_65, TripleC_37, Triscuit_80, Troll4_59, Turuncu_68, UNTPL_55, Virizion_69, Visconti_60, WaldoWhy_61, Weiss13_70, Wentworth_64, Wheezy_65, WhoseManz_65, Wilkos_66, WinnieLou_46, Wojtek_63, Wollypog_48, Xenia2_66, Yappy_86, Yara_60, Yeezus_60, Yelo_69, Yikes_69, Yndexa_66, Zany_65, Zenon_72, Zion_54, Zuko_81,

Summary by start number:

Start 32:
• Found in 12 of 386 (3.1%) of genes in pham
• Manual Annotations of this start: 12 of 338
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Araceli_53 (BH), Bogota_54 (BH), Crosby_54 (BH), Henoccus_54 (BH), Intolerant_51 (BH), JackieB_54 (BH), LazerLemon_54 (BH), Marky_57 (BH), Microdon_52 (BH), Shynx_53 (BH), Stuff_53 (BH), UNTPL_55 (BH),

Start 35:
• Found in 6 of 386 (1.6%) of genes in pham
• Manual Annotations of this start: 2 of 338
• Called 100.0% of time when present
• Phage (with cluster) where this start called: 8UZL_42 (AB), FF47_41 (AB), LongHai_43 (AB), Maco6_40 (AB), Muddy_42 (AB), Salvus_43 (AB),

Start 37:
• Found in 1 of 386 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 338
• Called 100.0% of time when present
• Phage (with cluster) where this start called: NoShow_50 (AB),

Start 40:
• Found in 20 of 386 (5.2%) of genes in pham
• Manual Annotations of this start: 4 of 338
• Called 20.0% of time when present
• Phage (with cluster) where this start called: AndPeggy_37 (CT), BillDoor_40 (CT), Blondies_43 (CT), JacoRen57_38 (AB),

Start 42:
• Found in 2 of 386 (0.5%) of genes in pham
• Manual Annotations of this start: 2 of 338
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Fowlmouth_78 (AC), MrMiyagi_77 (AC),

Start 45:
• Found in 12 of 386 (3.1%) of genes in pham
• Manual Annotations of this start: 3 of 338
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Button_43 (CT), Jamzy_45 (CT), Margaret_46 (CT),

Start 46:
• Found in 82 of 386 (21.2%) of genes in pham
• Manual Annotations of this start: 60 of 338
• Called 89.0% of time when present
• Phage (with cluster) where this start called: Agatha_39 (CT), AikoCarson_41 (CT), Amok_41 (CT), Axym_39 (CT), Azira_38 (CT), Balloona_40 (CT), Bavilard_41 (CT), BigChungus_41 (CT), Biskit_42 (CT), Bubble_38 (CT), Burnsey_39 (CT), Buttrmlkdreams_42 (CT), Carsonalex_43 (CT), CherryonLim_43 (CT), ChickenTender_42 (CT), ChocoMunchkin_39 (CT), Cleo_36 (CT), CocoaPuff_42 (CT), Cozz_38 (CT), Dre3_36 (CT), ElJefes_42 (CT), Elinal_45 (CT), Eliott_40 (CT), Feastonyeet_41 (CT), Fribs8_37 (CT), GiKK_45 (CT), Gibbous_36 (CT), GoldHunter_39 (CT), Hexbug_47 (CT), HippoPololi_38 (CT), Horseradish_42 (CT), KayGee_43 (CT), Lauer_38 (CT), MAnor_43 (CT), MScarn_43 (CT), MaVan_38 (CT), Malvina_39 (CT), Mayweather_45 (CT), McDazzle_43 (CT), MunkgeeRoachy_38 (CT), Nibbles_37 (CT), Nina_39 (CT), Nodigi_47 (CT), Orla_47 (CT), Pons_43 (CT), PotPie_42 (CT), PsychoKiller_39 (CT), Quasar_40 (CT), RADical_41 (CT), RSchmailzl_40 (CT), RanchParmCat_45 (CT), RedBaron_43 (CT), SheckWes_44 (CT), SketchMex_40 (CT), Socotra_40 (CT), Sopespian_39 (CT), Starburst_41 (CT), SteamedHams_41 (CT), SummitAcademy_41 (CT), Survivors_38 (CT), SweatNTears_41 (CT), Tarnish_42 (CT), Tolls_41 (CT), Troje_42 (CT), Typhonomachy_38 (CT), Vine_44 (CT), Wallaby_40 (CT), Wolfwood_38 (CT), Yakult_42 (CT), Yarn_37 (CT), Yucky_44 (CT), Yummy_42 (CT), Zareef_38 (CT),

Start 48:
• Found in 70 of 386 (18.1%) of genes in pham
• Manual Annotations of this start: 3 of 338

• Called 8.6% of time when present
• Phage (with cluster) where this start called: CanesSauce_39 (CT), CaramelLatte_39 (CT), Creature_85 (BR), Emalyn_40 (CT), KimJongPhill_83 (BR), Zuko_81 (BR),

Start 50:
• Found in 15 of 386 (3.9%) of genes in pham
• Manual Annotations of this start: 13 of 338
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Dalilpop_69 (CR1), Ennea_72 (CR3), Flapper_68 (CR1), Float294_66 (CR3), Fury_74 (CR5), GRU1_54 (CR1), GTE5_54 (CR1), HomeFry_70 (CR5), Lollipop1437_69 (CR3), Patio_67 (CR3), Pleakley_74 (CR5), RedRaider_72 (CR3), Scuba_74 (CR5), Skysand_67 (CR3), Turuncu_68 (CR1),

Start 53:
• Found in 4 of 386 (1.0%) of genes in pham
• Manual Annotations of this start: 4 of 338
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Commandaria_66 (CR2), Huwbert_81 (GG), Shrew_85 (singleton), Triscuit_80 (GG),

Start 55:
• Found in 2 of 386 (0.5%) of genes in pham
• Manual Annotations of this start: 2 of 338
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Commonplace_63 (JD), Nonagon_62 (JD),

Start 57:
• Found in 11 of 386 (2.8%) of genes in pham
• Manual Annotations of this start: 10 of 338
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Candle_68 (R), Gimesa_71 (R), MontyDev_72 (R), Nilo_72 (R), Papyrus_70 (R), Riparian_72 (R), Rope_70 (R), Send513_70 (R), Weiss13_70 (R), Yelo_69 (R), Zenon_72 (R),

Start 58:
• Found in 30 of 386 (7.8%) of genes in pham
• Manual Annotations of this start: 29 of 338
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Arti_64 (CR2), BiPauneto_68 (CR4), Bonum_69 (CR2), Buggaboo_67 (CR2), Cuke_77 (AC), Emianna_65 (CR2), Foxboro_66 (CR2), GTE8_54 (CR2), GrootJr_67 (CR2), HubbaBubba_60 (CR4), IDyn_64 (CR4), Indlulamithi_69 (AC), Jifall16_64 (CR2), Kabluna_68 (CR2), KidneyBean_65 (CR2), Kurt_65 (CR2), Marietta_66 (CR4), MerCougar_67 (CR2), NadineRae_65 (CR4), NatB6_65 (CR2), NosilaM_67 (CR2), NovumRegina_65 (CR2), Pemberton_67 (CR4), Phomeo_64 (CR2), Sukkupi_66 (CR4), SuperSulley_67 (CR2), Tracker_65 (CR2), Wheezy_65 (CR2), WhoseManz_65 (CR4), Yndexa_66 (CR4),

Start 59:
• Found in 28 of 386 (7.3%) of genes in pham
• Manual Annotations of this start: 22 of 338

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Agamotto_36 (FR), AnnabelLee_36 (FR), Audell_35 (FR), Beckerton_71 (H1), BobtimousPrime_75 (H1), CardboardBox_37 (FR), Cborch11_74 (H1), ChamoyPickle_38 (FR), ChipsNGuac_36 (FR), Damien_72 (H1), Ezurina_35 (FR), Gerri43_36 (FR), Konstantine_76 (H1), LastNadiia_38 (FR), Makima_36 (FR), Megatron06_73 (H1), Mireles_39 (FR), Neuvillette_36 (FR), Nish23_74 (H1), Oaker_72 (H1), Phreeze_71 (H1), Predator_71 (H1), Puissant_69 (H1), Roberts_36 (FR), Studio_38 (FR), TMaxx_37 (FR), Thumb_73 (H1), TripleC_37 (FR),

Start 60:
• Found in 3 of 386 (0.8%) of genes in pham
• Manual Annotations of this start: 2 of 338
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Aikoy_76 (AE), Leopard_75 (AE),

Start 61:
• Found in 6 of 386 (1.6%) of genes in pham
• Manual Annotations of this start: 4 of 338
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Dewdrop_139 (GC), Hendrix_141 (GC), Leaf_139 (GC), Rasputia_136 (GC),

Start 62:
• Found in 1 of 386 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 338
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Yappy_86 (singleton),

Start 65:
• Found in 31 of 386 (8.0%) of genes in pham
• Manual Annotations of this start: 17 of 338
• Called 64.5% of time when present
• Phage (with cluster) where this start called: C3PO_52 (EN), Cruella_52 (EN), Darwin_56 (EN), Dryad_68 (BN), Gibson_64 (BN), Greenbelt_62 (BN), Kimchi1738_53 (EN), Lizz_64 (BN), PHTowN_64 (BN), PeteyPab_53 (EN), PotatoChip_54 (EN), Rooney_64 (BN), SassyC_69 (BN), ShakeNBake_64 (BN), Stickynote_54 (EN), Virizion_69 (BN), Wentworth_64 (BN), Wilkos_66 (BN), Yara_60 (BN), Zion_54 (EN),

Start 66:
• Found in 16 of 386 (4.1%) of genes in pham
• Manual Annotations of this start: 11 of 338
• Called 68.8% of time when present
• Phage (with cluster) where this start called: Beyoncage_56 (DG1), BiteSize_56 (DG1), Djokovic_56 (DG1), LilyPad_58 (DG1), LittleFella_63 (DG2), Madi_56 (DG1), Outis_66 (CR2), Sienna_56 (DG1), StarStruck_66 (CR2), Suzy_56 (DG1), Terapin_57 (DG1),

Start 67:
• Found in 61 of 386 (15.8%) of genes in pham
• Manual Annotations of this start: 51 of 338
• Called 98.4% of time when present

• Phage (with cluster) where this start called: Aaravos_61 (DV), Alephilan_68 (DV), Alyssamiracle_70 (DV), Apeppi_62 (DV), Apiary_64 (CR6), Astralis_67 (DV), Avian_65 (DV), BirthdayBoy_69 (DV), Braxoaddie_64 (CR6), Charminar_66 (DV), CoffeeBean_64 (CR6), DaviePasture_67 (DV), Demikore_86 (U), DoobyDoo_66 (DV), DumpTruck_66 (DV), Erutan_67 (DV), Fulcrum_67 (DV), GOATification_67 (DV), Gagieri_63 (CR6), Gallia_67 (singleton), Genamy16_70 (DV), Gibbin_69 (DV), GretelLyn_67 (DV), Jalebi_66 (DV), Jamemuya19_66 (DV), Labelle_84 (U), Lambo_65 (DV), LavAbarElk_67 (DV), Lila22_68 (DV), LuckyLeo_64 (DV), MacGully_73 (CR7), Madruga_83 (U), Maselop_64 (CR6), Mima20_67 (DV), MoiGyank_70 (DV), Nettle_68 (DV), NorManre_71 (DV), NovaSharks_69 (DV), OtterstedtS21_67 (DV), P1201_70 (singleton), ParvusTarda_66 (DV), Patience_85 (U), Patos_71 (DV), Polyyuki_64 (CR6), Pywacket_64 (DV), Ranch_67 (DV), RazorC_67 (DV), Riduram_66 (DV), Rota_64 (DV), Rukungu_69 (DV), Rumi_68 (DV), Sadboi_68 (DV), Sampudon_67 (DV), Stormer_67 (DV), SuperSonics_84 (U), Tillicus_62 (DV), Wojtek_63 (DV), Xenia2_66 (DV), Yikes_69 (DV), Zany_65 (DV),

Start 68:
• Found in 49 of 386 (12.7%) of genes in pham
• Manual Annotations of this start: 44 of 338
• Called 98.0% of time when present
• Phage (with cluster) where this start called: Aesir_44 (EF), Ajin_49 (EF), Anakin_45 (EF), AnnaSerena_45 (EF), Annapurna_45 (EF), Artiphact_45 (EF), Bramble_49 (EF), Chivey_45 (EF), CoolCookie_45 (EF), Crestdrop_45 (EF), Cybele_45 (EF), DannyDe_45 (EF), Dauntless_44 (EF), Erudite_44 (EF), FountainFog_44 (EF), FreddieHg_45 (EF), Gilda_45 (EF), Hager_46 (EF), Haunter_45 (EF), Hiddenleaf_45 (EF), JDawG_44 (EF), JingleBells_45 (EF), Karate_44 (EF), Kate_46 (EF), Kors_49 (EF), Krampus_45 (EF), LordBart_49 (EF), MortySmith_43 (EF), NarutoRun_45 (EF), Neptune_45 (EF), OhDear_45 (EF), OverHedge_45 (EF), Pharpay_45 (EF), PhunaPhoke_45 (EF), Potty_45 (EF), Poultress_44 (EF), Rachella_45 (EF), Rie18_45 (EF), RikSengupta_49 (EF), SafetyGuy_45 (EF), SilentWarrior_45 (EF), Snakehole_45 (EF), Sparcetus_49 (EF), Tedro_45 (EF), Tiggy93_45 (EF), TinyMiny_49 (EF), Tongui_45 (EF), WinnieLou_46 (EF),

Start 69:
• Found in 2 of 386 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 338
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Wollypog_48 (singleton),

Start 70:
• Found in 3 of 386 (0.8%) of genes in pham
• Manual Annotations of this start: 2 of 338
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AmandaPanda_79 (H2), Barnyard_75 (H2), DrLupo_79 (H2),

Start 71:
• Found in 36 of 386 (9.3%) of genes in pham
• Manual Annotations of this start: 22 of 338
• Called 63.9% of time when present
• Phage (with cluster) where this start called: Adjutor_58 (D1), BigMama_57 (D1), Butterscotch_58 (D1), Chill_61 (D1), Delton_60 (D1), Erk16_58 (D1), Giuseppe_60 (D1), Gumball_59 (D1), Helpful_62 (D1), KandZ_58 (D1), Mopey_60 (D1), Nova_58

(D1), PBI1_56 (D1), PLot_59 (D1), Penelope2018_59 (D1), Phalaborwa_62 (D1), Prager_59 (D1), SirHarley_61 (D1), SuperheroCarly_60 (D1), Thoth_59 (D1), Troll4_59 (D1), Visconti_60 (D1), WaldoWhy_61 (D1),

Start 72:
• Found in 7 of 386 (1.8%) of genes in pham
• Manual Annotations of this start: 3 of 338
• Called 42.9% of time when present
• Phage (with cluster) where this start called: ChewyVIII_77 (singleton), Hawkeye_66 (D2), Onyinye_76 (AE),

Start 80:
• Found in 15 of 386 (3.9%) of genes in pham
• Manual Annotations of this start: 13 of 338
• Called 86.7% of time when present
• Phage (with cluster) where this start called: Amavida_62 (AQ), Amigo_61 (AQ), Anansi_60 (AQ), Boersma_63 (AQ), Gorgeous_60 (AQ), Heylee_63 (AQ), Ichor_60 (AQ), Jaek_60 (AQ), Molivia_62 (AQ), Rings_61 (AQ), SorJuana_60 (AQ), Thunderclap_60 (AQ), Yeezus_60 (AQ),

Summary by clusters:

There are 31 clusters represented in this pham: FR, BN, BH, singleton, JD, EN, BR, DV, DG2, AC, AB, AE, EF, AQ, R, GC, CT, CR2, CR3, CR1, CR6, CR7, CR4, CR5, GG, H1, H2, DG1, U, D2, D1,

Info for manual annotations of cluster AB:
•Start number 35 was manually annotated 2 times for cluster AB.
•Start number 37 was manually annotated 1 time for cluster AB.
•Start number 40 was manually annotated 1 time for cluster AB.

Info for manual annotations of cluster AC:
•Start number 42 was manually annotated 2 times for cluster AC.
•Start number 58 was manually annotated 2 times for cluster AC.

Info for manual annotations of cluster AE:
•Start number 60 was manually annotated 2 times for cluster AE.
•Start number 72 was manually annotated 1 time for cluster AE.

Info for manual annotations of cluster AQ:
•Start number 80 was manually annotated 13 times for cluster AQ.

Info for manual annotations of cluster BH:
•Start number 32 was manually annotated 12 times for cluster BH.

Info for manual annotations of cluster BN:
•Start number 65 was manually annotated 9 times for cluster BN.

Info for manual annotations of cluster BR:
•Start number 48 was manually annotated 2 times for cluster BR.

Info for manual annotations of cluster CR1:
•Start number 50 was manually annotated 3 times for cluster CR1.

Info for manual annotations of cluster CR2:
•Start number 53 was manually annotated 1 time for cluster CR2.
•Start number 58 was manually annotated 18 times for cluster CR2.
•Start number 66 was manually annotated 2 times for cluster CR2.

Info for manual annotations of cluster CR3:
•Start number 50 was manually annotated 6 times for cluster CR3.

Info for manual annotations of cluster CR4:
•Start number 58 was manually annotated 9 times for cluster CR4.

Info for manual annotations of cluster CR5:
•Start number 50 was manually annotated 4 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 CT:
•Start number 40 was manually annotated 3 times for cluster CT.
•Start number 45 was manually annotated 3 times for cluster CT.
•Start number 46 was manually annotated 60 times for cluster CT.
•Start number 48 was manually annotated 1 time for cluster CT.

Info for manual annotations of cluster D1:
•Start number 71 was manually annotated 22 times for cluster D1.

Info for manual annotations of cluster D2:
•Start number 72 was manually annotated 1 time for cluster D2.

Info for manual annotations of cluster DG1:
•Start number 66 was manually annotated 8 times for cluster DG1.

Info for manual annotations of cluster DG2:
•Start number 66 was manually annotated 1 time for cluster DG2.

Info for manual annotations of cluster DV:
•Start number 67 was manually annotated 40 times for cluster DV.

Info for manual annotations of cluster EF:
•Start number 68 was manually annotated 44 times for cluster EF.

Info for manual annotations of cluster EN:
•Start number 65 was manually annotated 8 times for cluster EN.

Info for manual annotations of cluster FR:
•Start number 59 was manually annotated 11 times for cluster FR.

Info for manual annotations of cluster GC:
•Start number 61 was manually annotated 4 times for cluster GC.

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

Info for manual annotations of cluster H1:
•Start number 59 was manually annotated 11 times for cluster H1.

Info for manual annotations of cluster H2:
•Start number 70 was manually annotated 2 times for cluster H2.

Info for manual annotations of cluster JD:
•Start number 55 was manually annotated 2 times for cluster JD.

Info for manual annotations of cluster R:
•Start number 57 was manually annotated 10 times for cluster R.

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

Gene Information:

Gene: 8UZL_42 Start: 30925, Stop: 30080, Start Num: 35
Candidate Starts for 8UZL_42:
(Start: 35 @30925 has 2 MA's), (47, 30901), (82, 30808), (95, 30748), (127, 30670), (132, 30643), (152, 30592), (164, 30559), (195, 30451), (205, 30424), (233, 30322), (243, 30286), (249, 30259), (274, 30196), (294, 30121), (298, 30112),

Gene: Aaravos_61 Start: 44576, Stop: 45670, Start Num: 67
Candidate Starts for Aaravos_61:
(Start: 67 @44576 has 51 MA's), (92, 44669), (108, 44708), (127, 44756), (159, 44858), (163, 44867), (201, 44990), (209, 45011), (214, 45026), (218, 45038), (239, 45119), (244, 45137), (249, 45158), (255, 45179), (272, 45236), (295, 45320), (321, 45485), (323, 45494), (332, 45629),

Gene: Adjutor_58 Start: 44429, Stop: 45289, Start Num: 71
Candidate Starts for Adjutor_58:
(43, 44357), (Start: 71 @44429 has 22 MA's), (84, 44474), (87, 44486), (90, 44504), (92, 44516), (102, 44540), (103, 44543), (153, 44696), (159, 44717), (162, 44726), (166, 44732), (191, 44822), (192, 44825), (195, 44834), (204, 44855), (236, 44966), (239, 44978), (244, 44996), (263, 45047), (266, 45056), (275, 45086), (276, 45089),

Gene: Aesir_44 Start: 29791, Stop: 30636, Start Num: 68
Candidate Starts for Aesir_44:
(1, 29230), (5, 29326), (6, 29365), (14, 29491), (15, 29527), (Start: 68 @29791 has 44 MA's), (85, 29845), (92, 29881), (102, 29908), (120, 29953), (122, 29956), (132, 30001), (182, 30157), (191, 30193), (194, 30202), (195, 30205), (235, 30334), (239, 30349), (278, 30454), (293, 30496),

Gene: Agamotto_36 Start: 26402, Stop: 25623, Start Num: 59
Candidate Starts for Agamotto_36:
(44, 26453), (Start: 48 @26435 has 3 MA's), (Start: 59 @26402 has 22 MA's), (97, 26294), (102, 26276), (107, 26261), (138, 26165), (147, 26138), (165, 26084), (175, 26051), (181, 26021), (191, 25985), (219, 25907), (245, 25811), (269, 25751), (275, 25730),

Gene: Agatha_39 Start: 28608, Stop: 27790, Start Num: 46
Candidate Starts for Agatha_39:
(Start: 46 @28608 has 60 MA's), (100, 28452), (101, 28449), (119, 28401), (127, 28389), (141, 28341), (152, 28311), (164, 28278), (168, 28263), (169, 28260), (182, 28218), (192, 28179), (195, 28170), (216, 28113), (244, 27999), (280, 27885), (293, 27846),

Gene: AikoCarson_41 Start: 28965, Stop: 28147, Start Num: 46
Candidate Starts for AikoCarson_41:
(Start: 40 @28983 has 4 MA's), (Start: 46 @28965 has 60 MA's), (Start: 48 @28959 has 3 MA's), (100, 28809), (101, 28806), (119, 28758), (127, 28746), (152, 28668), (164, 28635), (169, 28617), (182, 28575), (183, 28572), (192, 28536), (195, 28527), (216, 28470), (226, 28431), (243, 28362), (265, 28308), (280, 28242),

Gene: Aikoy_76 Start: 51990, Stop: 52910, Start Num: 60
Candidate Starts for Aikoy_76:
(Start: 60 @51990 has 2 MA's), (Start: 72 @52005 has 3 MA's), (90, 52077), (92, 52089), (102, 52113), (103, 52116), (114, 52146), (133, 52209), (154, 52266), (159, 52284), (162, 52293), (166, 52299), (176, 52329), (224, 52488), (227, 52497), (228, 52500), (239, 52545), (244, 52563), (260, 52611), (277, 52659), (287, 52698), (312, 52803),

Gene: Ajin_49 Start: 31113, Stop: 31955, Start Num: 68
Candidate Starts for Ajin_49:
(Start: 68 @31113 has 44 MA's), (114, 31260), (120, 31272), (122, 31275), (170, 31437), (182, 31473), (191, 31509), (214, 31572), (217, 31581), (235, 31650), (239, 31665), (293, 31812),

Gene: Alephilan_68 Start: 45485, Stop: 46561, Start Num: 67
Candidate Starts for Alephilan_68:
(Start: 67 @45485 has 51 MA's), (108, 45617), (127, 45665), (153, 45746), (157, 45758), (159, 45767), (163, 45776), (201, 45899), (209, 45920), (218, 45947), (239, 46028), (244, 46046), (249, 46067), (272, 46145), (295, 46229), (322, 46394), (333, 46532),

Gene: Alyssamiracle_70 Start: 44487, Stop: 45557, Start Num: 67
Candidate Starts for Alyssamiracle_70:
(Start: 67 @44487 has 51 MA's), (94, 44583), (108, 44619), (127, 44667), (157, 44760), (159, 44769), (163, 44778), (201, 44901), (209, 44922), (218, 44949), (239, 45030), (244, 45048), (249, 45069), (272, 45147), (295, 45231), (333, 45528),

Gene: AmandaPanda_79 Start: 52740, Stop: 53756, Start Num: 70
Candidate Starts for AmandaPanda_79:
(Start: 70 @52740 has 2 MA's), (105, 52866), (107, 52872), (114, 52896), (132, 52956), (133, 52959), (146, 52995), (149, 53004), (159, 53049), (163, 53058), (166, 53064), (171, 53082), (177, 53100), (192, 53163), (200, 53184), (225, 53262), (234, 53307), (239, 53325), (244, 53343), (245, 53349), (268, 53418), (293, 53508), (313, 53577), (328, 53739),

Gene: Amavida_62 Start: 40997, Stop: 40257, Start Num: 80
Candidate Starts for Amavida_62:
(Start: 80 @40997 has 13 MA's), (86, 40967), (91, 40943), (93, 40931), (94, 40928), (96, 40922), (109, 40880), (111, 40871), (116, 40856), (121, 40847), (150, 40748), (155, 40733), (188, 40613), (193, 40595), (207, 40556), (210, 40547), (234, 40466), (242, 40439), (268, 40394), (269, 40391), (275, 40370), (286, 40325), (290, 40310),

Gene: Amigo_61 Start: 41212, Stop: 40472, Start Num: 80

Candidate Starts for Amigo_61:
(Start: 80 @41212 has 13 MA's), (86, 41182), (91, 41158), (93, 41146), (94, 41143), (96, 41137), (109, 41095), (111, 41086), (116, 41071), (121, 41062), (150, 40963), (155, 40948), (188, 40828), (193, 40810), (207, 40771), (210, 40762), (234, 40681), (242, 40654), (268, 40609), (269, 40606), (275, 40585), (286, 40540), (290, 40525),

Gene: Amok_41 Start: 28989, Stop: 28171, Start Num: 46
Candidate Starts for Amok_41:
(Start: 40 @29007 has 4 MA's), (Start: 46 @28989 has 60 MA's), (Start: 48 @28983 has 3 MA's), (100, 28833), (101, 28830), (119, 28782), (127, 28770), (152, 28692), (164, 28659), (169, 28641), (182, 28599), (183, 28596), (192, 28560), (195, 28551), (216, 28494), (226, 28455), (243, 28386), (265, 28332), (280, 28266),

Gene: Anakin_45 Start: 30144, Stop: 30992, Start Num: 68
Candidate Starts for Anakin_45:
(6, 29718), (10, 29748), (15, 29880), (Start: 68 @30144 has 44 MA's), (85, 30198), (92, 30234), (102, 30261), (120, 30306), (122, 30309), (132, 30354), (182, 30510), (191, 30546), (194, 30555), (195, 30558), (235, 30687), (239, 30702), (278, 30807), (293, 30849),

Gene: Anansi_60 Start: 40819, Stop: 40079, Start Num: 80
Candidate Starts for Anansi_60:
(Start: 80 @40819 has 13 MA's), (86, 40789), (91, 40765), (93, 40753), (94, 40750), (96, 40744), (109, 40702), (111, 40693), (116, 40678), (121, 40669), (150, 40570), (155, 40555), (188, 40435), (193, 40417), (207, 40378), (210, 40369), (234, 40288), (242, 40261), (268, 40216), (269, 40213), (275, 40192), (286, 40147), (290, 40132),

Gene: AndPeggy_37 Start: 28407, Stop: 27571, Start Num: 40
Candidate Starts for AndPeggy_37:
(Start: 40 @28407 has 4 MA's), (Start: 46 @28389 has 60 MA's), (Start: 48 @28383 has 3 MA's), (100, 28233), (101, 28230), (119, 28182), (127, 28170), (152, 28092), (164, 28059), (169, 28041), (182, 27999), (183, 27996), (192, 27960), (195, 27951), (197, 27948), (216, 27894), (226, 27855), (243, 27786), (244, 27780), (265, 27732), (293, 27627),

Gene: AnnaSerena_45 Start: 30179, Stop: 31027, Start Num: 68
Candidate Starts for AnnaSerena_45:
(6, 29753), (10, 29783), (15, 29915), (Start: 68 @30179 has 44 MA's), (85, 30233), (92, 30269), (102, 30296), (120, 30341), (122, 30344), (132, 30389), (182, 30545), (191, 30581), (194, 30590), (195, 30593), (235, 30722), (239, 30737), (278, 30842), (293, 30884),

Gene: AnnabelLee_36 Start: 23600, Stop: 22806, Start Num: 59
Candidate Starts for AnnabelLee_36:
(Start: 48 @23633 has 3 MA's), (Start: 59 @23600 has 22 MA's), (97, 23486), (107, 23453), (119, 23417), (138, 23357), (139, 23354), (147, 23330), (155, 23306), (160, 23285), (165, 23276), (175, 23243), (181, 23213), (191, 23177), (219, 23099), (247, 22994), (269, 22943), (275, 22922),

Gene: Annapurna_45 Start: 29420, Stop: 30265, Start Num: 68
Candidate Starts for Annapurna_45:
(1, 28859), (5, 28955), (6, 28994), (7, 29000), (10, 29024), (14, 29120), (15, 29156), (Start: 68 @29420 has 44 MA's), (85, 29474), (92, 29510), (102, 29537), (120, 29582), (122, 29585), (132, 29630), (182, 29786), (191, 29822), (194, 29831), (195, 29834), (235, 29963), (239, 29978), (278, 30083), (293, 30125),

Gene: Apeppi_62 Start: 44646, Stop: 45731, Start Num: 67

Candidate Starts for Apeppi_62:
(Start: 67 @44646 has 51 MA's), (92, 44739), (108, 44778), (127, 44826), (159, 44928), (163, 44937), (201, 45060), (209, 45081), (214, 45096), (218, 45108), (239, 45189), (244, 45207), (249, 45228), (255, 45249), (272, 45306), (295, 45390), (332, 45690),

Gene: Apiary_64 Start: 48400, Stop: 47549, Start Num: 67
Candidate Starts for Apiary_64:
(Start: 67 @48400 has 51 MA's), (85, 48340), (126, 48220), (130, 48208), (159, 48106), (162, 48097), (169, 48079), (173, 48067), (191, 47995), (239, 47839), (244, 47821), (245, 47815), (284, 47692), (296, 47656), (304, 47635),

Gene: Araceli_53 Start: 37442, Stop: 38452, Start Num: 32
Candidate Starts for Araceli_53:
(18, 37346), (Start: 32 @37442 has 12 MA's), (Start: 71 @37538 has 22 MA's), (96, 37640), (104, 37667), (106, 37673), (158, 37856), (176, 37910), (180, 37934), (191, 37976), (202, 38000), (206, 38012), (221, 38060), (250, 38174), (276, 38264), (279, 38288), (285, 38303), (291, 38330), (299, 38351), (300, 38354), (306, 38372), (308, 38381),

Gene: Arti_64 Start: 50810, Stop: 49992, Start Num: 58
Candidate Starts for Arti_64:
(Start: 48 @50837 has 3 MA's), (Start: 58 @50810 has 29 MA's), (85, 50738), (152, 50516), (193, 50375), (197, 50366), (215, 50315), (225, 50279), (239, 50225), (244, 50207), (249, 50192),

Gene: Artiphact_45 Start: 30168, Stop: 31016, Start Num: 68
Candidate Starts for Artiphact_45:
(6, 29742), (10, 29772), (15, 29904), (Start: 68 @30168 has 44 MA's), (85, 30222), (92, 30258), (102, 30285), (120, 30330), (122, 30333), (132, 30378), (182, 30534), (191, 30570), (194, 30579), (195, 30582), (235, 30711), (239, 30726), (278, 30831), (293, 30873),

Gene: Astralis_67 Start: 44066, Stop: 45136, Start Num: 67
Candidate Starts for Astralis_67:
(Start: 67 @44066 has 51 MA's), (94, 44162), (108, 44198), (127, 44246), (157, 44339), (159, 44348), (163, 44357), (201, 44480), (209, 44501), (218, 44528), (239, 44609), (244, 44627), (249, 44648), (272, 44726), (295, 44810), (333, 45107),

Gene: Audell_35 Start: 25989, Stop: 25204, Start Num: 59
Candidate Starts for Audell_35:
(44, 26040), (Start: 48 @26022 has 3 MA's), (Start: 59 @25989 has 22 MA's), (97, 25881), (102, 25863), (107, 25848), (119, 25812), (138, 25752), (147, 25725), (165, 25671), (175, 25638), (181, 25608), (191, 25572), (216, 25503), (219, 25494), (241, 25416), (245, 25398), (269, 25338), (275, 25317),

Gene: Avian_65 Start: 44215, Stop: 45285, Start Num: 67
Candidate Starts for Avian_65:
(Start: 67 @44215 has 51 MA's), (94, 44311), (108, 44347), (127, 44395), (157, 44488), (159, 44497), (163, 44506), (201, 44629), (209, 44650), (218, 44677), (239, 44758), (244, 44776), (249, 44797), (272, 44875), (295, 44959), (333, 45256),

Gene: Axym_39 Start: 28586, Stop: 27768, Start Num: 46
Candidate Starts for Axym_39:
(Start: 46 @28586 has 60 MA's), (100, 28430), (101, 28427), (119, 28379), (127, 28367), (152, 28289), (164, 28256), (168, 28241), (169, 28238), (182, 28196), (192, 28157), (195, 28148), (216, 28091), (232, 28028), (244, 27977), (280, 27863), (293, 27824),

Gene: Azira_38 Start: 28635, Stop: 27823, Start Num: 46
Candidate Starts for Azira_38:
(24, 28707), (Start: 46 @28635 has 60 MA's), (127, 28419), (135, 28383), (152, 28341), (157, 28326), (164, 28308), (168, 28293), (169, 28290), (182, 28248), (195, 28200), (217, 28140), (226, 28107), (238, 28053), (243, 28038), (280, 27921),

Gene: Balloona_40 Start: 29790, Stop: 28984, Start Num: 46
Candidate Starts for Balloona_40:
(Start: 46 @29790 has 60 MA's), (Start: 48 @29784 has 3 MA's), (87, 29682), (100, 29628), (127, 29565), (135, 29529), (164, 29454), (168, 29439), (183, 29391), (184, 29388), (192, 29355), (195, 29346), (216, 29289), (229, 29241), (230, 29238), (239, 29196), (275, 29103), (293, 29034),

Gene: Barnyard_75 Start: 51526, Stop: 52548, Start Num: 70
Candidate Starts for Barnyard_75:
(Start: 70 @51526 has 2 MA's), (105, 51652), (107, 51658), (114, 51682), (132, 51742), (133, 51745), (149, 51790), (159, 51835), (163, 51844), (166, 51850), (171, 51868), (192, 51949), (200, 51970), (225, 52048), (234, 52093), (239, 52111), (244, 52129), (268, 52204), (287, 52273), (293, 52294), (316, 52387), (318, 52423),

Gene: Bavilard_41 Start: 30011, Stop: 29205, Start Num: 46
Candidate Starts for Bavilard_41:
(Start: 46 @30011 has 60 MA's), (Start: 48 @30005 has 3 MA's), (87, 29903), (100, 29849), (127, 29786), (135, 29750), (164, 29675), (168, 29660), (182, 29615), (183, 29612), (192, 29576), (195, 29567), (216, 29510), (229, 29462), (230, 29459), (239, 29417), (275, 29324), (293, 29255),

Gene: Beckerton_71 Start: 53060, Stop: 54136, Start Num: 59
Candidate Starts for Beckerton_71:
(Start: 59 @53060 has 22 MA's), (Start: 65 @53066 has 17 MA's), (85, 53114), (103, 53177), (122, 53222), (133, 53270), (145, 53300), (159, 53357), (163, 53366), (166, 53372), (195, 53474), (208, 53507), (213, 53522), (224, 53561), (234, 53600), (239, 53618), (244, 53636), (245, 53639), (247, 53648), (268, 53714), (275, 53738), (319, 53927), (330, 54074), (331, 54077), (334, 54116), (335, 54125),

Gene: Beyoncage_56 Start: 41805, Stop: 42734, Start Num: 66
Candidate Starts for Beyoncage_56:
(Start: 66 @41805 has 11 MA's), (86, 41862), (92, 41895), (146, 42045), (149, 42054), (153, 42078), (159, 42099), (166, 42114), (169, 42126), (173, 42138), (185, 42177), (188, 42192), (199, 42225), (233, 42336), (234, 42342), (239, 42360), (246, 42384), (247, 42390), (256, 42420), (263, 42444), (289, 42537), (320, 42705),

Gene: BiPauneto_68 Start: 50402, Stop: 49605, Start Num: 58
Candidate Starts for BiPauneto_68:
(26, 50501), (Start: 48 @50429 has 3 MA's), (Start: 58 @50402 has 29 MA's), (85, 50327), (142, 50153), (183, 50021), (190, 49991), (193, 49982), (197, 49973), (205, 49946), (215, 49919), (228, 49874), (236, 49841), (239, 49829), (244, 49811), (275, 49730), (299, 49652),

Gene: BigChungus_41 Start: 30191, Stop: 29385, Start Num: 46
Candidate Starts for BigChungus_41:
(Start: 46 @30191 has 60 MA's), (Start: 48 @30185 has 3 MA's), (87, 30083), (100, 30029), (127, 29966), (164, 29855), (168, 29840), (182, 29795), (183, 29792), (192, 29756), (195, 29747), (216, 29690), (229, 29642), (230, 29639), (239, 29597), (275, 29504), (293, 29435),

Gene: BigMama_57 Start: 44505, Stop: 45365, Start Num: 71
Candidate Starts for BigMama_57:
(43, 44433), (Start: 71 @44505 has 22 MA's), (84, 44550), (87, 44562), (90, 44580), (92, 44592), (102, 44616), (103, 44619), (153, 44772), (159, 44793), (162, 44802), (166, 44808), (191, 44898), (192, 44901), (195, 44910), (204, 44931), (236, 45042), (239, 45054), (244, 45072), (263, 45123), (266, 45132), (275, 45162), (276, 45165),

Gene: BillDoor_40 Start: 28078, Stop: 27242, Start Num: 40
Candidate Starts for BillDoor_40:
(Start: 40 @28078 has 4 MA's), (Start: 46 @28060 has 60 MA's), (Start: 48 @28054 has 3 MA's), (100, 27904), (119, 27853), (127, 27841), (152, 27763), (164, 27730), (169, 27712), (182, 27670), (183, 27667), (192, 27631), (195, 27622), (197, 27619), (216, 27565), (226, 27526), (243, 27457), (244, 27451), (265, 27403), (293, 27298),

Gene: BirthdayBoy_69 Start: 45791, Stop: 46882, Start Num: 67
Candidate Starts for BirthdayBoy_69:
(Start: 67 @45791 has 51 MA's), (108, 45923), (127, 45971), (153, 46052), (157, 46064), (159, 46073), (163, 46082), (201, 46205), (209, 46226), (218, 46253), (239, 46334), (244, 46352), (249, 46373), (272, 46451), (295, 46535), (322, 46700), (324, 46709), (333, 46853),

Gene: Biskit_42 Start: 28753, Stop: 27935, Start Num: 46
Candidate Starts for Biskit_42:
(Start: 40 @28771 has 4 MA's), (Start: 46 @28753 has 60 MA's), (Start: 48 @28747 has 3 MA's), (100, 28597), (101, 28594), (127, 28534), (152, 28456), (164, 28423), (169, 28405), (182, 28363), (183, 28360), (192, 28324), (195, 28315), (216, 28258), (226, 28219), (236, 28174), (239, 28162), (243, 28150), (244, 28144), (265, 28096), (293, 27991),

Gene: BiteSize_56 Start: 41891, Stop: 42820, Start Num: 66
Candidate Starts for BiteSize_56:
(Start: 66 @41891 has 11 MA's), (86, 41948), (92, 41981), (146, 42131), (149, 42140), (153, 42164), (159, 42185), (166, 42200), (169, 42212), (173, 42224), (185, 42263), (188, 42278), (199, 42311), (233, 42422), (234, 42428), (239, 42446), (246, 42470), (247, 42476), (256, 42506), (263, 42530), (289, 42623), (320, 42791),

Gene: Blondies_43 Start: 29087, Stop: 28251, Start Num: 40
Candidate Starts for Blondies_43:
(Start: 40 @29087 has 4 MA's), (Start: 46 @29069 has 60 MA's), (Start: 48 @29063 has 3 MA's), (100, 28913), (101, 28910), (127, 28850), (152, 28772), (164, 28739), (169, 28721), (182, 28679), (183, 28676), (192, 28640), (195, 28631), (216, 28574), (236, 28490), (243, 28466), (244, 28460), (265, 28412), (293, 28307),

Gene: BobtimousPrime_75 Start: 53362, Stop: 54438, Start Num: 59
Candidate Starts for BobtimousPrime_75:
(Start: 59 @53362 has 22 MA's), (Start: 65 @53368 has 17 MA's), (85, 53416), (122, 53524), (133, 53572), (145, 53602), (159, 53659), (163, 53668), (166, 53674), (195, 53776), (208, 53809), (213, 53824), (224, 53863), (234, 53902), (239, 53920), (244, 53938), (245, 53941), (247, 53950), (268, 54016), (275, 54040), (330, 54376), (331, 54379), (334, 54418), (335, 54427),

Gene: Boersma_63 Start: 41212, Stop: 40472, Start Num: 80
Candidate Starts for Boersma_63:
(Start: 80 @41212 has 13 MA's), (86, 41182), (91, 41158), (93, 41146), (94, 41143), (96, 41137), (109, 41095), (111, 41086), (116, 41071), (121, 41062), (150, 40963), (155, 40948), (188, 40828), (193, 40810), (207, 40771), (210, 40762), (234, 40681), (242, 40654), (268, 40609), (269, 40606), (275,

40585), (286, 40540), (290, 40525),

Gene: Bogota_54 Start: 37764, Stop: 38777, Start Num: 32
Candidate Starts for Bogota_54:
(Start: 32 @37764 has 12 MA's), (41, 37788), (63, 37848), (Start: 71 @37863 has 22 MA's), (96, 37965), (104, 37992), (106, 37998), (135, 38097), (158, 38181), (166, 38202), (176, 38235), (191, 38301), (202, 38325), (211, 38349), (239, 38457), (245, 38481), (248, 38493), (250, 38499), (276, 38589), (291, 38655), (300, 38679), (306, 38697),

Gene: Bonum_69 Start: 51702, Stop: 50839, Start Num: 58
Candidate Starts for Bonum_69:
(29, 51780), (Start: 58 @51702 has 29 MA's), (110, 51540), (152, 51414), (193, 51273), (205, 51240), (215, 51213), (233, 51147), (239, 51123), (244, 51105), (267, 51051), (277, 51021), (289, 50976),

Gene: Bramble_49 Start: 31162, Stop: 32004, Start Num: 68
Candidate Starts for Bramble_49:
(Start: 68 @31162 has 44 MA's), (87, 31225), (114, 31309), (120, 31321), (122, 31324), (170, 31486), (182, 31522), (191, 31558), (214, 31621), (217, 31630), (235, 31699), (239, 31714), (293, 31861),

Gene: Braxoaddie_64 Start: 48389, Stop: 47538, Start Num: 67
Candidate Starts for Braxoaddie_64:
(Start: 67 @48389 has 51 MA's), (85, 48329), (126, 48209), (130, 48197), (159, 48095), (162, 48086), (169, 48068), (173, 48056), (191, 47984), (239, 47828), (244, 47810), (245, 47804), (284, 47681), (296, 47645), (304, 47624),

Gene: Bubble_38 Start: 28195, Stop: 27377, Start Num: 46
Candidate Starts for Bubble_38:
(Start: 46 @28195 has 60 MA's), (100, 28039), (101, 28036), (119, 27988), (127, 27976), (152, 27898), (164, 27865), (168, 27850), (169, 27847), (182, 27805), (192, 27766), (195, 27757), (204, 27736), (216, 27700), (232, 27637), (244, 27586), (280, 27472), (293, 27433),

Gene: Buggaboo_67 Start: 52253, Stop: 51390, Start Num: 58
Candidate Starts for Buggaboo_67:
(29, 52331), (Start: 58 @52253 has 29 MA's), (110, 52091), (152, 51965), (193, 51824), (205, 51791), (215, 51764), (217, 51758), (233, 51698), (239, 51674), (244, 51656), (267, 51602), (277, 51572), (289, 51527),

Gene: Burnsey_39 Start: 28599, Stop: 27781, Start Num: 46
Candidate Starts for Burnsey_39:
(Start: 46 @28599 has 60 MA's), (100, 28443), (101, 28440), (119, 28392), (127, 28380), (152, 28302), (164, 28269), (168, 28254), (169, 28251), (182, 28209), (192, 28170), (195, 28161), (204, 28140), (216, 28104), (232, 28041), (244, 27990), (280, 27876), (293, 27837),

Gene: Butterscotch_58 Start: 44489, Stop: 45349, Start Num: 71
Candidate Starts for Butterscotch_58:
(43, 44417), (Start: 71 @44489 has 22 MA's), (84, 44534), (87, 44546), (90, 44564), (92, 44576), (102, 44600), (103, 44603), (153, 44756), (159, 44777), (162, 44786), (166, 44792), (191, 44882), (192, 44885), (195, 44894), (204, 44915), (236, 45026), (239, 45038), (244, 45056), (263, 45107), (266, 45116), (275, 45146), (276, 45149),

Gene: Button_43 Start: 29230, Stop: 28424, Start Num: 45
Candidate Starts for Button_43:

(23, 29314), (27, 29284), (29, 29278), (Start: 45 @29230 has 3 MA's), (Start: 46 @29227 has 60 MA's), (87, 29128), (127, 29017), (141, 28969), (157, 28924), (164, 28906), (168, 28891), (169, 28888), (183, 28843), (192, 28807), (195, 28798), (226, 28702), (232, 28678), (239, 28645), (243, 28633), (244, 28627), (249, 28606),

Gene: Buttrmlkdreams_42 Start: 29086, Stop: 28268, Start Num: 46
Candidate Starts for Buttrmlkdreams_42:
(Start: 40 @29104 has 4 MA's), (Start: 46 @29086 has 60 MA's), (Start: 48 @29080 has 3 MA's), (100, 28930), (101, 28927), (127, 28867), (152, 28789), (164, 28756), (169, 28738), (182, 28696), (183, 28693), (192, 28657), (195, 28648), (216, 28591), (226, 28552), (236, 28507), (239, 28495), (243, 28483), (244, 28477), (265, 28429), (293, 28324),

Gene: C3PO_52 Start: 45078, Stop: 44314, Start Num: 65
Candidate Starts for C3PO_52:
(Start: 65 @45078 has 17 MA's), (127, 44886), (132, 44859), (159, 44784), (225, 44577), (239, 44523), (262, 44478), (289, 44394),

Gene: Candle_68 Start: 52987, Stop: 53817, Start Num: 57
Candidate Starts for Candle_68:
(Start: 57 @52987 has 10 MA's), (79, 53032), (86, 53062), (92, 53095), (102, 53119), (122, 53167), (128, 53188), (153, 53281), (163, 53311), (165, 53314), (169, 53326), (195, 53410), (211, 53440), (234, 53524), (236, 53530), (239, 53542), (244, 53560), (252, 53587), (253, 53590), (282, 53686), (292, 53707), (302, 53734),

Gene: CanesSauce_39 Start: 28556, Stop: 27744, Start Num: 48
Candidate Starts for CanesSauce_39:
(Start: 40 @28580 has 4 MA's), (Start: 46 @28562 has 60 MA's), (Start: 48 @28556 has 3 MA's), (100, 28406), (101, 28403), (119, 28355), (127, 28343), (152, 28265), (164, 28232), (169, 28214), (182, 28172), (183, 28169), (192, 28133), (195, 28124), (197, 28121), (216, 28067), (226, 28028), (243, 27959), (244, 27953), (265, 27905), (293, 27800),

Gene: CaramelLatte_39 Start: 28556, Stop: 27744, Start Num: 48
Candidate Starts for CaramelLatte_39:
(Start: 40 @28580 has 4 MA's), (Start: 46 @28562 has 60 MA's), (Start: 48 @28556 has 3 MA's), (100, 28406), (101, 28403), (119, 28355), (127, 28343), (152, 28265), (164, 28232), (169, 28214), (182, 28172), (183, 28169), (192, 28133), (195, 28124), (197, 28121), (216, 28067), (226, 28028), (243, 27959), (244, 27953), (265, 27905), (293, 27800),

Gene: CardboardBox_37 Start: 23603, Stop: 22809, Start Num: 59
Candidate Starts for CardboardBox_37:
(Start: 48 @23636 has 3 MA's), (Start: 59 @23603 has 22 MA's), (97, 23489), (107, 23456), (119, 23420), (138, 23360), (139, 23357), (147, 23333), (155, 23309), (160, 23288), (165, 23279), (175, 23246), (181, 23216), (191, 23180), (219, 23102), (247, 22997), (269, 22946), (275, 22925),

Gene: Carsonalex_43 Start: 28636, Stop: 27818, Start Num: 46
Candidate Starts for Carsonalex_43:
(Start: 46 @28636 has 60 MA's), (100, 28480), (101, 28477), (119, 28429), (127, 28417), (152, 28339), (164, 28306), (168, 28291), (169, 28288), (182, 28246), (192, 28207), (195, 28198), (216, 28141), (232, 28078), (244, 28027), (280, 27913), (293, 27874),

Gene: Cborch11_74 Start: 52603, Stop: 53682, Start Num: 59
Candidate Starts for Cborch11_74:

(25, 52492), (Start: 59 @52603 has 22 MA's), (Start: 65 @52609 has 17 MA's), (73, 52621), (85, 52657), (122, 52765), (133, 52813), (142, 52834), (144, 52840), (159, 52900), (163, 52909), (166, 52915), (195, 53017), (208, 53050), (213, 53065), (224, 53104), (234, 53143), (239, 53161), (244, 53179), (245, 53182), (247, 53191), (268, 53257), (275, 53281), (319, 53473), (330, 53620), (331, 53623), (334, 53662), (335, 53671),

Gene: ChamoyPickle_38 Start: 24143, Stop: 23349, Start Num: 59
Candidate Starts for ChamoyPickle_38:
(Start: 48 @24176 has 3 MA's), (Start: 59 @24143 has 22 MA's), (97, 24029), (107, 23996), (119, 23960), (138, 23900), (139, 23897), (147, 23873), (155, 23849), (160, 23828), (165, 23819), (175, 23786), (181, 23756), (191, 23720), (219, 23642), (247, 23537), (269, 23486), (275, 23465),

Gene: Charminar_66 Start: 43825, Stop: 44895, Start Num: 67
Candidate Starts for Charminar_66:
(Start: 67 @43825 has 51 MA's), (94, 43921), (108, 43957), (127, 44005), (157, 44098), (159, 44107), (163, 44116), (201, 44239), (209, 44260), (218, 44287), (239, 44368), (244, 44386), (249, 44407), (272, 44485), (295, 44569), (333, 44866),

Gene: CherryonLim_43 Start: 31329, Stop: 30523, Start Num: 46
Candidate Starts for CherryonLim_43:
(Start: 46 @31329 has 60 MA's), (Start: 48 @31323 has 3 MA's), (87, 31221), (100, 31167), (127, 31104), (164, 30993), (182, 30933), (183, 30930), (192, 30894), (195, 30885), (216, 30828), (229, 30780), (230, 30777), (239, 30735), (275, 30642), (293, 30573),

Gene: ChewyVIII_77 Start: 56830, Stop: 56066, Start Num: 72
Candidate Starts for ChewyVIII_77:
(Start: 72 @56830 has 3 MA's), (75, 56821), (85, 56782), (103, 56716), (166, 56524), (216, 56359), (222, 56335), (233, 56287), (240, 56260), (244, 56245),

Gene: ChickenTender_42 Start: 28367, Stop: 27552, Start Num: 46
Candidate Starts for ChickenTender_42:
(Start: 46 @28367 has 60 MA's), (100, 28211), (101, 28208), (119, 28160), (127, 28148), (152, 28070), (164, 28037), (168, 28022), (169, 28019), (182, 27977), (192, 27938), (195, 27929), (216, 27872), (232, 27809), (244, 27758), (280, 27644),

Gene: Chill_61 Start: 44552, Stop: 45412, Start Num: 71
Candidate Starts for Chill_61:
(43, 44480), (Start: 71 @44552 has 22 MA's), (84, 44597), (87, 44609), (90, 44627), (92, 44639), (102, 44663), (103, 44666), (153, 44819), (159, 44840), (162, 44849), (166, 44855), (191, 44945), (192, 44948), (195, 44957), (204, 44978), (236, 45089), (239, 45101), (244, 45119), (263, 45170), (266, 45179), (275, 45209), (276, 45212),

Gene: ChipsNGuac_36 Start: 23603, Stop: 22809, Start Num: 59
Candidate Starts for ChipsNGuac_36:
(Start: 48 @23636 has 3 MA's), (Start: 59 @23603 has 22 MA's), (97, 23489), (107, 23456), (119, 23420), (138, 23360), (139, 23357), (147, 23333), (155, 23309), (160, 23288), (165, 23279), (175, 23246), (181, 23216), (191, 23180), (219, 23102), (247, 22997), (269, 22946), (275, 22925),

Gene: Chivey_45 Start: 29369, Stop: 30214, Start Num: 68
Candidate Starts for Chivey_45:
(1, 28808), (5, 28904), (6, 28943), (7, 28949), (10, 28973), (14, 29069), (15, 29105), (Start: 68 @29369 has 44 MA's), (85, 29423), (92, 29459), (102, 29486), (120, 29531), (122, 29534), (132, 29579), (182, 29735), (191, 29771), (194, 29780), (195, 29783), (235, 29912), (239, 29927), (278, 30032), (293,

30074),

Gene: ChocoMunchkin_39 Start: 28562, Stop: 27744, Start Num: 46
Candidate Starts for ChocoMunchkin_39:
(Start: 40 @28580 has 4 MA's), (Start: 46 @28562 has 60 MA's), (Start: 48 @28556 has 3 MA's), (100, 28406), (101, 28403), (119, 28355), (127, 28343), (152, 28265), (164, 28232), (169, 28214), (182, 28172), (183, 28169), (192, 28133), (195, 28124), (197, 28121), (216, 28067), (226, 28028), (243, 27959), (244, 27953), (265, 27905), (293, 27800),

Gene: Cleo_36 Start: 28180, Stop: 27371, Start Num: 46
Candidate Starts for Cleo_36:
(Start: 46 @28180 has 60 MA's), (87, 28078), (127, 27967), (157, 27874), (164, 27856), (168, 27841), (169, 27838), (182, 27796), (195, 27748), (217, 27688), (226, 27655), (232, 27631), (238, 27601), (243, 27586), (280, 27469),

Gene: CocoaPuff_42 Start: 30196, Stop: 29390, Start Num: 46
Candidate Starts for CocoaPuff_42:
(Start: 46 @30196 has 60 MA's), (Start: 48 @30190 has 3 MA's), (87, 30088), (100, 30034), (127, 29971), (164, 29860), (168, 29845), (182, 29800), (183, 29797), (192, 29761), (195, 29752), (216, 29695), (229, 29647), (230, 29644), (239, 29602), (275, 29509), (293, 29440),

Gene: CoffeeBean_64 Start: 48347, Stop: 47496, Start Num: 67
Candidate Starts for CoffeeBean_64:
(Start: 67 @48347 has 51 MA's), (85, 48287), (126, 48167), (130, 48155), (159, 48053), (162, 48044), (169, 48026), (173, 48014), (191, 47942), (239, 47786), (244, 47768), (245, 47762), (284, 47639), (296, 47603), (304, 47582),

Gene: Commandaria_66 Start: 52055, Stop: 51243, Start Num: 53
Candidate Starts for Commandaria_66:
(Start: 53 @52055 has 4 MA's), (85, 51968), (102, 51908), (123, 51851), (124, 51842), (193, 51608), (197, 51599), (205, 51575), (209, 51566), (215, 51548), (239, 51458), (244, 51440), (249, 51425), (251, 51419), (259, 51395),

Gene: Commonplace_63 Start: 41846, Stop: 41034, Start Num: 55
Candidate Starts for Commonplace_63:
(38, 41897), (Start: 55 @41846 has 2 MA's), (64, 41822), (73, 41801), (Start: 80 @41783 has 13 MA's), (89, 41747), (139, 41564), (161, 41492), (164, 41489), (174, 41456), (187, 41396), (214, 41321), (293, 41078),

Gene: CoolCookie_45 Start: 30174, Stop: 31022, Start Num: 68
Candidate Starts for CoolCookie_45:
(6, 29748), (10, 29778), (15, 29910), (Start: 68 @30174 has 44 MA's), (85, 30228), (92, 30264), (102, 30291), (120, 30336), (122, 30339), (132, 30384), (182, 30540), (191, 30576), (194, 30585), (195, 30588), (235, 30717), (239, 30732), (278, 30837), (293, 30879),

Gene: Cozz_38 Start: 28196, Stop: 27378, Start Num: 46
Candidate Starts for Cozz_38:
(Start: 46 @28196 has 60 MA's), (100, 28040), (101, 28037), (119, 27989), (127, 27977), (141, 27929), (152, 27899), (164, 27866), (168, 27851), (169, 27848), (182, 27806), (192, 27767), (195, 27758), (216, 27701), (244, 27587), (280, 27473), (293, 27434),

Gene: Creature_85 Start: 61272, Stop: 62087, Start Num: 48
Candidate Starts for Creature_85:

(Start: 48 @61272 has 3 MA's), (83, 61350), (143, 61530), (157, 61569), (164, 61587), (169, 61605), (182, 61647), (197, 61698), (205, 61722), (208, 61728), (216, 61752), (231, 61809), (242, 61857), (244, 61866), (249, 61887), (269, 61956), (271, 61962),

Gene: Crestdrop_45 Start: 29400, Stop: 30245, Start Num: 68
Candidate Starts for Crestdrop_45:
(2, 28890), (3, 28896), (4, 28923), (6, 28974), (10, 29004), (15, 29136), (Start: 68 @29400 has 44 MA's), (85, 29454), (92, 29490), (102, 29517), (120, 29562), (122, 29565), (132, 29610), (182, 29766), (191, 29802), (194, 29811), (195, 29814), (235, 29943), (239, 29958), (278, 30063), (293, 30105),

Gene: Crosby_54 Start: 37524, Stop: 38537, Start Num: 32
Candidate Starts for Crosby_54:
(Start: 32 @37524 has 12 MA's), (Start: 61 @37605 has 4 MA's), (Start: 71 @37623 has 22 MA's), (96, 37725), (104, 37752), (106, 37758), (135, 37857), (158, 37941), (166, 37962), (176, 37995), (191, 38061), (202, 38085), (211, 38109), (239, 38217), (245, 38241), (248, 38253), (250, 38259), (258, 38292), (276, 38349), (291, 38415), (300, 38439), (306, 38457),

Gene: Cruella_52 Start: 45078, Stop: 44314, Start Num: 65
Candidate Starts for Cruella_52:
(Start: 65 @45078 has 17 MA's), (127, 44886), (132, 44859), (159, 44784), (225, 44577), (239, 44523), (262, 44478), (289, 44394),

Gene: Cuke_77 Start: 46278, Stop: 47102, Start Num: 58
Candidate Starts for Cuke_77:
(Start: 58 @46278 has 29 MA's), (Start: 66 @46290 has 11 MA's), (Start: 71 @46302 has 22 MA's), (Start: 72 @46305 has 3 MA's), (92, 46389), (102, 46413), (120, 46458), (122, 46461), (145, 46539), (154, 46578), (166, 46611), (172, 46632), (173, 46635), (191, 46701), (193, 46707), (208, 46746), (213, 46761), (237, 46848), (239, 46857), (244, 46875), (256, 46914), (264, 46941), (273, 46971), (276, 46980), (280, 47004), (298, 47055),

Gene: Cybele_45 Start: 30144, Stop: 30992, Start Num: 68
Candidate Starts for Cybele_45:
(6, 29718), (10, 29748), (15, 29880), (Start: 68 @30144 has 44 MA's), (85, 30198), (92, 30234), (102, 30261), (120, 30306), (122, 30309), (132, 30354), (182, 30510), (191, 30546), (194, 30555), (195, 30558), (235, 30687), (239, 30702), (278, 30807), (293, 30849),

Gene: Dalilpop_69 Start: 52942, Stop: 52163, Start Num: 50
Candidate Starts for Dalilpop_69:
(Start: 50 @52942 has 13 MA's), (85, 52855), (190, 52516), (193, 52507), (204, 52480), (205, 52474), (215, 52447), (225, 52417), (239, 52363), (241, 52357), (244, 52345), (261, 52303), (277, 52267),

Gene: Damien_72 Start: 52565, Stop: 53644, Start Num: 59
Candidate Starts for Damien_72:
(Start: 59 @52565 has 22 MA's), (Start: 65 @52571 has 17 MA's), (73, 52583), (85, 52619), (122, 52727), (133, 52775), (142, 52796), (144, 52802), (159, 52862), (163, 52871), (166, 52877), (195, 52979), (208, 53012), (213, 53027), (224, 53066), (234, 53105), (239, 53123), (244, 53141), (245, 53144), (247, 53153), (268, 53219), (275, 53243), (319, 53435), (330, 53582), (331, 53585), (334, 53624), (335, 53633),

Gene: DannyDe_45 Start: 29375, Stop: 30220, Start Num: 68
Candidate Starts for DannyDe_45:
(1, 28814), (5, 28910), (6, 28949), (7, 28955), (10, 28979), (14, 29075), (15, 29111), (Start: 68 @29375 has 44 MA's), (85, 29429), (92, 29465), (102, 29492), (120, 29537), (122, 29540), (132, 29585), (182,

29741), (191, 29777), (194, 29786), (195, 29789), (235, 29918), (239, 29933), (278, 30038), (293, 30080),

Gene: Darwin_56 Start: 44559, Stop: 43795, Start Num: 65
Candidate Starts for Darwin_56:
(Start: 65 @44559 has 17 MA's), (132, 44340), (154, 44283), (225, 44058), (239, 44004), (262, 43959), (289, 43875),

Gene: Dauntless_44 Start: 29727, Stop: 30572, Start Num: 68
Candidate Starts for Dauntless_44:
(6, 29301), (10, 29331), (11, 29358), (14, 29427), (15, 29463), (Start: 68 @29727 has 44 MA's), (85, 29781), (92, 29817), (102, 29844), (120, 29889), (122, 29892), (132, 29937), (182, 30093), (191, 30129), (194, 30138), (195, 30141), (235, 30270), (239, 30285), (278, 30390), (293, 30432),

Gene: DaviePasture_67 Start: 45399, Stop: 46469, Start Num: 67
Candidate Starts for DaviePasture_67:
(Start: 67 @45399 has 51 MA's), (108, 45531), (127, 45579), (157, 45672), (159, 45681), (163, 45690), (201, 45813), (209, 45834), (218, 45861), (239, 45942), (244, 45960), (249, 45981), (272, 46059), (295, 46143), (314, 46221), (322, 46308), (333, 46440),

Gene: Delton_60 Start: 44887, Stop: 45747, Start Num: 71
Candidate Starts for Delton_60:
(43, 44815), (Start: 71 @44887 has 22 MA's), (84, 44932), (87, 44944), (90, 44962), (92, 44974), (102, 44998), (103, 45001), (153, 45154), (159, 45175), (162, 45184), (166, 45190), (191, 45280), (192, 45283), (195, 45292), (204, 45313), (236, 45424), (239, 45436), (244, 45454), (263, 45505), (266, 45514), (275, 45544), (276, 45547),

Gene: Demikore_86 Start: 54792, Stop: 55850, Start Num: 67
Candidate Starts for Demikore_86:
(Start: 67 @54792 has 51 MA's), (86, 54849), (87, 54852), (92, 54882), (114, 54939), (122, 54954), (159, 55083), (168, 55107), (183, 55161), (189, 55185), (233, 55329), (234, 55335), (236, 55341), (238, 55350), (239, 55353), (244, 55371), (251, 55398), (268, 55458), (278, 55506), (295, 55554), (301, 55572), (313, 55632), (316, 55653), (326, 55761), (327, 55776),

Gene: Dewdrop_139 Start: 83232, Stop: 84089, Start Num: 61
Candidate Starts for Dewdrop_139:
(41, 83175), (Start: 45 @83184 has 3 MA's), (Start: 61 @83232 has 4 MA's), (Start: 66 @83238 has 11 MA's), (81, 83283), (129, 83448), (130, 83451), (137, 83475), (140, 83484), (164, 83559), (166, 83565), (169, 83577), (176, 83598), (196, 83664), (218, 83721), (220, 83730), (221, 83733), (228, 83751), (232, 83766), (240, 83787), (243, 83796), (252, 83829), (262, 83868), (288, 83955),

Gene: Djokovic_56 Start: 41804, Stop: 42733, Start Num: 66
Candidate Starts for Djokovic_56:
(Start: 66 @41804 has 11 MA's), (86, 41861), (92, 41894), (146, 42044), (149, 42053), (153, 42077), (159, 42098), (166, 42113), (169, 42125), (173, 42137), (185, 42176), (188, 42191), (199, 42224), (233, 42335), (234, 42341), (239, 42359), (246, 42383), (247, 42389), (256, 42419), (263, 42443), (289, 42536), (320, 42704),

Gene: DoobyDoo_66 Start: 44375, Stop: 45445, Start Num: 67
Candidate Starts for DoobyDoo_66:
(Start: 67 @44375 has 51 MA's), (108, 44507), (127, 44555), (153, 44636), (157, 44648), (159, 44657), (163, 44666), (201, 44789), (209, 44810), (218, 44837), (239, 44918), (244, 44936), (249, 44957), (272, 45035), (295, 45119), (322, 45284), (333, 45416),

Gene: DrLupo_79 Start: 52740, Stop: 53756, Start Num: 70
Candidate Starts for DrLupo_79:
(Start: 70 @52740 has 2 MA's), (105, 52866), (107, 52872), (114, 52896), (132, 52956), (133, 52959), (146, 52995), (149, 53004), (159, 53049), (163, 53058), (166, 53064), (171, 53082), (177, 53100), (192, 53163), (200, 53184), (225, 53262), (234, 53307), (239, 53325), (244, 53343), (245, 53349), (268, 53418), (293, 53508), (313, 53577), (328, 53739),

Gene: Dre3_36 Start: 27923, Stop: 27114, Start Num: 46
Candidate Starts for Dre3_36:
(Start: 46 @27923 has 60 MA's), (87, 27821), (127, 27710), (157, 27617), (164, 27599), (168, 27584), (169, 27581), (182, 27539), (195, 27491), (217, 27431), (226, 27398), (232, 27374), (238, 27344), (243, 27329), (280, 27212),

Gene: Dryad_68 Start: 46911, Stop: 46123, Start Num: 65
Candidate Starts for Dryad_68:
(Start: 65 @46911 has 17 MA's), (78, 46884), (85, 46857), (88, 46848), (92, 46821), (102, 46797), (103, 46794), (157, 46635), (185, 46545), (186, 46539), (198, 46500), (205, 46479), (239, 46362), (241, 46356), (245, 46338), (263, 46311), (286, 46239),

Gene: DumpTruck_66 Start: 44187, Stop: 45317, Start Num: 67
Candidate Starts for DumpTruck_66:
(Start: 67 @44187 has 51 MA's), (92, 44283), (108, 44322), (127, 44370), (153, 44451), (157, 44463), (159, 44472), (163, 44481), (209, 44625), (239, 44733), (244, 44751), (249, 44772), (256, 44796), (257, 44799), (272, 44850), (310, 44991), (325, 45147), (333, 45285),

Gene: ElJefes_42 Start: 30536, Stop: 29730, Start Num: 46
Candidate Starts for ElJefes_42:
(Start: 46 @30536 has 60 MA's), (87, 30428), (100, 30374), (127, 30311), (164, 30200), (168, 30185), (182, 30140), (183, 30137), (192, 30101), (195, 30092), (216, 30035), (229, 29987), (230, 29984), (239, 29942), (275, 29849), (293, 29780),

Gene: Elinal_45 Start: 30579, Stop: 29773, Start Num: 46
Candidate Starts for Elinal_45:
(Start: 46 @30579 has 60 MA's), (Start: 48 @30573 has 3 MA's), (87, 30471), (100, 30417), (127, 30354), (135, 30318), (164, 30243), (168, 30228), (182, 30183), (183, 30180), (192, 30144), (195, 30135), (216, 30078), (229, 30030), (230, 30027), (239, 29985), (275, 29892), (293, 29823),

Gene: Eliott_40 Start: 28607, Stop: 27789, Start Num: 46
Candidate Starts for Eliott_40:
(Start: 46 @28607 has 60 MA's), (100, 28451), (101, 28448), (119, 28400), (127, 28388), (152, 28310), (164, 28277), (168, 28262), (169, 28259), (182, 28217), (192, 28178), (195, 28169), (216, 28112), (232, 28049), (244, 27998), (280, 27884), (293, 27845),

Gene: Emalyn_40 Start: 28151, Stop: 27339, Start Num: 48
Candidate Starts for Emalyn_40:
(Start: 40 @28175 has 4 MA's), (Start: 46 @28157 has 60 MA's), (Start: 48 @28151 has 3 MA's), (100, 28001), (101, 27998), (119, 27950), (127, 27938), (152, 27860), (164, 27827), (169, 27809), (182, 27767), (183, 27764), (192, 27728), (195, 27719), (216, 27662), (226, 27623), (243, 27554), (265, 27500), (280, 27434),

Gene: Emianna_65 Start: 52042, Stop: 51221, Start Num: 58
Candidate Starts for Emianna_65:

(Start: 48 @52069 has 3 MA's), (Start: 58 @52042 has 29 MA's), (85, 51970), (152, 51748), (193, 51607), (197, 51598), (215, 51547), (225, 51511), (239, 51457), (244, 51439), (249, 51424), (290, 51301),

Gene: Ennea_72 Start: 53024, Stop: 52245, Start Num: 50
Candidate Starts for Ennea_72:
(Start: 50 @53024 has 13 MA's), (85, 52940), (193, 52592), (215, 52532), (225, 52496), (239, 52442), (244, 52424), (258, 52391), (261, 52382), (287, 52307), (290, 52295),

Gene: Erk16_58 Start: 44591, Stop: 45451, Start Num: 71
Candidate Starts for Erk16_58:
(Start: 71 @44591 has 22 MA's), (84, 44636), (87, 44648), (90, 44666), (92, 44678), (102, 44702), (103, 44705), (153, 44858), (159, 44879), (162, 44888), (166, 44894), (191, 44984), (192, 44987), (195, 44996), (204, 45017), (236, 45128), (239, 45140), (244, 45158), (263, 45209), (266, 45218), (275, 45248), (276, 45251),

Gene: Erudite_44 Start: 29727, Stop: 30572, Start Num: 68
Candidate Starts for Erudite_44:
(6, 29301), (10, 29331), (11, 29358), (14, 29427), (15, 29463), (Start: 68 @29727 has 44 MA's), (85, 29781), (92, 29817), (102, 29844), (120, 29889), (122, 29892), (132, 29937), (182, 30093), (191, 30129), (194, 30138), (195, 30141), (235, 30270), (239, 30285), (278, 30390), (293, 30432),

Gene: Erutan_67 Start: 45017, Stop: 46087, Start Num: 67
Candidate Starts for Erutan_67:
(Start: 67 @45017 has 51 MA's), (108, 45149), (127, 45197), (157, 45290), (159, 45299), (163, 45308), (201, 45431), (209, 45452), (218, 45479), (239, 45560), (244, 45578), (249, 45599), (272, 45677), (295, 45761), (315, 45842), (333, 46058),

Gene: Ezurina_35 Start: 24660, Stop: 23866, Start Num: 59
Candidate Starts for Ezurina_35:
(Start: 48 @24693 has 3 MA's), (Start: 59 @24660 has 22 MA's), (97, 24546), (107, 24513), (119, 24477), (139, 24414), (147, 24390), (155, 24366), (165, 24336), (175, 24303), (181, 24273), (191, 24237), (219, 24159), (247, 24054), (269, 24003), (275, 23982),

Gene: FF47_41 Start: 30836, Stop: 29991, Start Num: 35
Candidate Starts for FF47_41:
(Start: 35 @30836 has 2 MA's), (47, 30812), (82, 30719), (95, 30659), (127, 30581), (132, 30554), (152, 30503), (164, 30470), (195, 30362), (205, 30335), (233, 30233), (243, 30197), (249, 30170), (274, 30107), (294, 30032), (298, 30023),

Gene: Feastonyeet_41 Start: 30191, Stop: 29385, Start Num: 46
Candidate Starts for Feastonyeet_41:
(Start: 46 @30191 has 60 MA's), (Start: 48 @30185 has 3 MA's), (87, 30083), (100, 30029), (127, 29966), (164, 29855), (168, 29840), (182, 29795), (183, 29792), (192, 29756), (195, 29747), (216, 29690), (229, 29642), (230, 29639), (239, 29597), (275, 29504), (293, 29435),

Gene: Flapper_68 Start: 52133, Stop: 51354, Start Num: 50
Candidate Starts for Flapper_68:
(Start: 50 @52133 has 13 MA's), (85, 52046), (103, 51983), (190, 51707), (193, 51698), (205, 51665), (215, 51638), (225, 51608), (239, 51554), (241, 51548), (244, 51536), (245, 51530), (261, 51494), (277, 51458),

Gene: Float294_66 Start: 52739, Stop: 51960, Start Num: 50

Candidate Starts for Float294_66:
(Start: 50 @52739 has 13 MA's), (85, 52655), (107, 52580), (193, 52307), (215, 52247), (225, 52211), (239, 52157), (244, 52139), (258, 52106), (261, 52097), (287, 52022), (290, 52010),

Gene: FountainFog_44 Start: 29411, Stop: 30256, Start Num: 68
Candidate Starts for FountainFog_44:
(1, 28850), (5, 28946), (6, 28985), (10, 29015), (14, 29111), (15, 29147), (Start: 68 @29411 has 44 MA's), (85, 29465), (92, 29501), (102, 29528), (120, 29573), (122, 29576), (132, 29621), (182, 29777), (191, 29813), (194, 29822), (195, 29825), (235, 29954), (239, 29969), (278, 30074), (293, 30116),

Gene: Fowlmouth_78 Start: 48807, Stop: 49670, Start Num: 42
Candidate Starts for Fowlmouth_78:
(Start: 42 @48807 has 2 MA's), (103, 48993), (120, 49035), (122, 49038), (145, 49116), (151, 49146), (166, 49188), (169, 49200), (173, 49212), (190, 49275), (193, 49284), (208, 49323), (237, 49425), (239, 49434), (256, 49491), (273, 49548), (276, 49557), (280, 49581), (298, 49632),

Gene: Foxboro_66 Start: 52567, Stop: 51746, Start Num: 58
Candidate Starts for Foxboro_66:
(Start: 48 @52594 has 3 MA's), (Start: 58 @52567 has 29 MA's), (85, 52495), (152, 52273), (193, 52132), (197, 52123), (215, 52072), (225, 52036), (239, 51982), (244, 51964), (249, 51949),

Gene: FreddieHg_45 Start: 29385, Stop: 30230, Start Num: 68
Candidate Starts for FreddieHg_45:
(1, 28824), (5, 28920), (6, 28959), (7, 28965), (10, 28989), (14, 29085), (15, 29121), (Start: 68 @29385 has 44 MA's), (85, 29439), (92, 29475), (102, 29502), (120, 29547), (122, 29550), (132, 29595), (182, 29751), (191, 29787), (194, 29796), (195, 29799), (235, 29928), (239, 29943), (278, 30048), (293, 30090),

Gene: Fribs8_37 Start: 28362, Stop: 27550, Start Num: 46
Candidate Starts for Fribs8_37:
(Start: 46 @28362 has 60 MA's), (135, 28110), (152, 28068), (157, 28053), (164, 28035), (168, 28020), (169, 28017), (182, 27975), (195, 27927), (217, 27867), (226, 27834), (238, 27780), (243, 27765), (280, 27648),

Gene: Fulcrum_67 Start: 45099, Stop: 46190, Start Num: 67
Candidate Starts for Fulcrum_67:
(Start: 67 @45099 has 51 MA's), (108, 45231), (127, 45279), (153, 45360), (157, 45372), (159, 45381), (163, 45390), (201, 45513), (209, 45534), (218, 45561), (239, 45642), (244, 45660), (249, 45681), (272, 45759), (295, 45843), (322, 46008), (324, 46017), (333, 46161),

Gene: Fury_74 Start: 51253, Stop: 50462, Start Num: 50
Candidate Starts for Fury_74:
(Start: 50 @51253 has 13 MA's), (85, 51157), (159, 50923), (193, 50812), (197, 50803), (204, 50785), (208, 50773), (215, 50752), (239, 50662), (244, 50644), (249, 50629), (275, 50569),

Gene: GOATification_67 Start: 45099, Stop: 46190, Start Num: 67
Candidate Starts for GOATification_67:
(Start: 67 @45099 has 51 MA's), (108, 45231), (127, 45279), (153, 45360), (157, 45372), (159, 45381), (163, 45390), (201, 45513), (209, 45534), (218, 45561), (239, 45642), (244, 45660), (249, 45681), (272, 45759), (295, 45843), (322, 46008), (324, 46017), (333, 46161),

Gene: GRU1_54 Start: 43981, Stop: 43202, Start Num: 50
Candidate Starts for GRU1_54:

(Start: 50 @43981 has 13 MA's), (85, 43894), (190, 43555), (193, 43546), (205, 43513), (215, 43486), (225, 43456), (239, 43402), (241, 43396), (244, 43384), (249, 43369), (261, 43342), (277, 43306),

Gene: GTE5_54 Start: 45013, Stop: 44234, Start Num: 50
Candidate Starts for GTE5_54:
(Start: 50 @45013 has 13 MA's), (85, 44926), (190, 44587), (193, 44578), (205, 44545), (215, 44518), (225, 44488), (239, 44434), (241, 44428), (244, 44416), (261, 44374), (277, 44338),

Gene: GTE8_54 Start: 45279, Stop: 44458, Start Num: 58
Candidate Starts for GTE8_54:
(Start: 48 @45306 has 3 MA's), (Start: 58 @45279 has 29 MA's), (85, 45207), (152, 44985), (193, 44844), (197, 44835), (215, 44784), (225, 44748), (239, 44694), (244, 44676), (249, 44661), (291, 44535),

Gene: Gagieri_63 Start: 48427, Stop: 47585, Start Num: 67
Candidate Starts for Gagieri_63:
(52, 48457), (54, 48454), (Start: 67 @48427 has 51 MA's), (85, 48367), (126, 48247), (127, 48244), (152, 48157), (159, 48133), (162, 48124), (169, 48106), (177, 48082), (191, 48022), (197, 48007), (228, 47911), (239, 47866), (244, 47848), (249, 47833), (284, 47719), (296, 47683), (304, 47662),

Gene: Gallia_67 Start: 52584, Stop: 51811, Start Num: 67
Candidate Starts for Gallia_67:
(Start: 67 @52584 has 51 MA's), (85, 52527), (130, 52383), (159, 52290), (191, 52185), (213, 52125), (228, 52074), (241, 52023), (245, 52005), (246, 52002), (280, 51924),

Gene: Genamy16_70 Start: 44473, Stop: 45543, Start Num: 67
Candidate Starts for Genamy16_70:
(Start: 67 @44473 has 51 MA's), (94, 44569), (108, 44605), (127, 44653), (157, 44746), (159, 44755), (163, 44764), (201, 44887), (209, 44908), (218, 44935), (239, 45016), (244, 45034), (249, 45055), (272, 45133), (295, 45217), (333, 45514),

Gene: Gerri43_36 Start: 23603, Stop: 22809, Start Num: 59
Candidate Starts for Gerri43_36:
(Start: 48 @23636 has 3 MA's), (Start: 59 @23603 has 22 MA's), (97, 23489), (107, 23456), (119, 23420), (138, 23360), (139, 23357), (147, 23333), (155, 23309), (160, 23288), (165, 23279), (175, 23246), (181, 23216), (191, 23180), (219, 23102), (247, 22997), (269, 22946), (275, 22925),

Gene: GiKK_45 Start: 29557, Stop: 28754, Start Num: 46
Candidate Starts for GiKK_45:
(13, 29836), (16, 29746), (23, 29644), (27, 29614), (29, 29608), (Start: 45 @29560 has 3 MA's), (Start: 46 @29557 has 60 MA's), (87, 29458), (127, 29347), (141, 29299), (157, 29254), (164, 29236), (168, 29221), (169, 29218), (183, 29173), (192, 29137), (195, 29128), (226, 29032), (232, 29008), (239, 28975), (243, 28963), (244, 28957), (249, 28936),

Gene: Gibbin_69 Start: 45904, Stop: 46995, Start Num: 67
Candidate Starts for Gibbin_69:
(Start: 67 @45904 has 51 MA's), (108, 46036), (127, 46084), (157, 46177), (159, 46186), (163, 46195), (201, 46318), (209, 46339), (218, 46366), (239, 46447), (244, 46465), (249, 46486), (272, 46564), (295, 46648), (322, 46813), (324, 46822), (333, 46966),

Gene: Gibbous_36 Start: 27923, Stop: 27114, Start Num: 46
Candidate Starts for Gibbous_36:

(Start: 46 @27923 has 60 MA's), (87, 27821), (127, 27710), (157, 27617), (164, 27599), (168, 27584), (169, 27581), (182, 27539), (195, 27491), (217, 27431), (226, 27398), (232, 27374), (238, 27344), (243, 27329), (280, 27212),

Gene: Gibson_64 Start: 46180, Stop: 45395, Start Num: 65
Candidate Starts for Gibson_64:
(Start: 65 @46180 has 17 MA's), (85, 46126), (88, 46117), (92, 46090), (102, 46066), (122, 46018), (154, 45913), (185, 45814), (186, 45808), (198, 45769), (205, 45748), (228, 45676), (239, 45631), (241, 45625), (245, 45607), (263, 45580), (286, 45508),

Gene: Gilda_45 Start: 30168, Stop: 31013, Start Num: 68
Candidate Starts for Gilda_45:
(6, 29742), (10, 29772), (15, 29904), (Start: 68 @30168 has 44 MA's), (85, 30222), (92, 30258), (102, 30285), (120, 30330), (122, 30333), (132, 30378), (182, 30534), (191, 30570), (194, 30579), (195, 30582), (235, 30711), (239, 30726), (278, 30831), (293, 30873),

Gene: Gimesa_71 Start: 52858, Stop: 53688, Start Num: 57
Candidate Starts for Gimesa_71:
(Start: 57 @52858 has 10 MA's), (79, 52903), (86, 52933), (92, 52966), (102, 52990), (122, 53038), (128, 53059), (153, 53152), (163, 53182), (165, 53185), (169, 53197), (195, 53281), (234, 53395), (236, 53401), (239, 53413), (244, 53431), (252, 53458), (253, 53461), (282, 53557), (292, 53578), (302, 53605),

Gene: Giuseppe_60 Start: 44457, Stop: 45317, Start Num: 71
Candidate Starts for Giuseppe_60:
(43, 44385), (Start: 71 @44457 has 22 MA's), (84, 44502), (87, 44514), (90, 44532), (92, 44544), (102, 44568), (103, 44571), (153, 44724), (159, 44745), (162, 44754), (166, 44760), (191, 44850), (192, 44853), (195, 44862), (204, 44883), (236, 44994), (239, 45006), (244, 45024), (263, 45075), (266, 45084), (275, 45114), (276, 45117),

Gene: GoldHunter_39 Start: 28608, Stop: 27790, Start Num: 46
Candidate Starts for GoldHunter_39:
(Start: 46 @28608 has 60 MA's), (100, 28452), (101, 28449), (119, 28401), (127, 28389), (152, 28311), (164, 28278), (168, 28263), (169, 28260), (182, 28218), (192, 28179), (195, 28170), (216, 28113), (232, 28050), (244, 27999), (280, 27885), (293, 27846),

Gene: Gorgeous_60 Start: 40819, Stop: 40079, Start Num: 80
Candidate Starts for Gorgeous_60:
(Start: 80 @40819 has 13 MA's), (86, 40789), (91, 40765), (93, 40753), (94, 40750), (96, 40744), (109, 40702), (111, 40693), (116, 40678), (121, 40669), (150, 40570), (155, 40555), (188, 40435), (193, 40417), (207, 40378), (210, 40369), (234, 40288), (242, 40261), (268, 40216), (269, 40213), (275, 40192), (286, 40147), (290, 40132),

Gene: Greenbelt_62 Start: 42280, Stop: 41495, Start Num: 65
Candidate Starts for Greenbelt_62:
(Start: 65 @42280 has 17 MA's), (85, 42226), (87, 42220), (92, 42190), (106, 42154), (198, 41869), (205, 41848), (215, 41821), (239, 41731), (241, 41725), (245, 41707), (269, 41671), (286, 41608), (294, 41581),

Gene: GretelLyn_67 Start: 45889, Stop: 46959, Start Num: 67
Candidate Starts for GretelLyn_67:
(Start: 67 @45889 has 51 MA's), (108, 46021), (127, 46069), (157, 46162), (159, 46171), (163, 46180), (201, 46303), (209, 46324), (218, 46351), (239, 46432), (244, 46450), (249, 46471), (272, 46549),

(295, 46633), (322, 46798), (333, 46930),

Gene: GrootJr_67 Start: 51436, Stop: 50615, Start Num: 58
Candidate Starts for GrootJr_67:
(Start: 48 @51463 has 3 MA's), (Start: 58 @51436 has 29 MA's), (85, 51364), (152, 51142), (193, 51001), (197, 50992), (215, 50941), (225, 50905), (239, 50851), (244, 50833), (249, 50818), (290, 50695),

Gene: Gumball_59 Start: 44949, Stop: 45809, Start Num: 71
Candidate Starts for Gumball_59:
(43, 44877), (Start: 71 @44949 has 22 MA's), (84, 44994), (87, 45006), (90, 45024), (92, 45036), (102, 45060), (103, 45063), (153, 45216), (159, 45237), (162, 45246), (166, 45252), (191, 45342), (192, 45345), (195, 45354), (204, 45375), (236, 45486), (239, 45498), (244, 45516), (263, 45567), (266, 45576), (275, 45606), (276, 45609),

Gene: Hager_46 Start: 29593, Stop: 30441, Start Num: 68
Candidate Starts for Hager_46:
(7, 29173), (8, 29188), (9, 29191), (10, 29197), (Start: 68 @29593 has 44 MA's), (83, 29635), (85, 29647), (92, 29683), (102, 29710), (120, 29755), (122, 29758), (132, 29803), (182, 29959), (191, 29995), (194, 30004), (195, 30007), (208, 30040), (235, 30136), (239, 30151), (278, 30256), (293, 30298),

Gene: Haunter_45 Start: 29551, Stop: 30396, Start Num: 68
Candidate Starts for Haunter_45:
(6, 29125), (10, 29155), (11, 29182), (14, 29251), (15, 29287), (Start: 68 @29551 has 44 MA's), (85, 29605), (92, 29641), (102, 29668), (120, 29713), (122, 29716), (132, 29761), (182, 29917), (191, 29953), (194, 29962), (195, 29965), (235, 30094), (239, 30109), (278, 30214), (283, 30220), (293, 30256),

Gene: Hawkeye_66 Start: 44818, Stop: 45684, Start Num: 72
Candidate Starts for Hawkeye_66:
(51, 44773), (Start: 67 @44806 has 51 MA's), (Start: 71 @44815 has 22 MA's), (Start: 72 @44818 has 3 MA's), (103, 44929), (113, 44962), (153, 45082), (157, 45094), (159, 45103), (162, 45112), (166, 45118), (191, 45208), (192, 45211), (195, 45220), (213, 45268), (239, 45364), (244, 45382), (263, 45436), (266, 45445), (299, 45556),

Gene: Helpful_62 Start: 44818, Stop: 45678, Start Num: 71
Candidate Starts for Helpful_62:
(43, 44746), (Start: 71 @44818 has 22 MA's), (84, 44863), (87, 44875), (90, 44893), (92, 44905), (102, 44929), (103, 44932), (153, 45085), (159, 45106), (162, 45115), (166, 45121), (191, 45211), (192, 45214), (195, 45223), (204, 45244), (236, 45355), (239, 45367), (244, 45385), (263, 45436), (266, 45445), (275, 45475), (276, 45478),

Gene: Hendrix_141 Start: 87196, Stop: 88029, Start Num: 61
Candidate Starts for Hendrix_141:
(41, 87139), (Start: 45 @87148 has 3 MA's), (Start: 61 @87196 has 4 MA's), (Start: 66 @87202 has 11 MA's), (81, 87247), (112, 87370), (130, 87415), (137, 87439), (140, 87448), (152, 87490), (164, 87523), (166, 87529), (169, 87541), (176, 87562), (196, 87628), (218, 87685), (221, 87697), (228, 87715), (232, 87730), (240, 87751), (243, 87760), (252, 87793), (262, 87832), (288, 87919),

Gene: Henoccus_54 Start: 37465, Stop: 38475, Start Num: 32
Candidate Starts for Henoccus_54:

(18, 37369), (Start: 32 @37465 has 12 MA's), (Start: 71 @37561 has 22 MA's), (96, 37663), (104, 37690), (106, 37696), (158, 37879), (176, 37933), (180, 37957), (191, 37999), (202, 38023), (206, 38035), (221, 38083), (248, 38191), (250, 38197), (276, 38287), (279, 38311), (285, 38326), (291, 38353), (299, 38374), (300, 38377), (306, 38395), (308, 38404),

Gene: Hexbug_47 Start: 31341, Stop: 30535, Start Num: 46
Candidate Starts for Hexbug_47:
(29, 31383), (Start: 45 @31344 has 3 MA's), (Start: 46 @31341 has 60 MA's), (87, 31239), (100, 31185), (101, 31182), (127, 31128), (135, 31092), (157, 31035), (164, 31017), (169, 30999), (183, 30954), (195, 30909), (226, 30813), (232, 30789), (239, 30756), (243, 30744), (266, 30690), (275, 30657),

Gene: Heylee_63 Start: 40997, Stop: 40257, Start Num: 80
Candidate Starts for Heylee_63:
(Start: 80 @40997 has 13 MA's), (86, 40967), (91, 40943), (93, 40931), (94, 40928), (96, 40922), (109, 40880), (111, 40871), (116, 40856), (121, 40847), (150, 40748), (155, 40733), (188, 40613), (193, 40595), (207, 40556), (210, 40547), (234, 40466), (242, 40439), (268, 40394), (269, 40391), (275, 40370), (286, 40325), (290, 40310),

Gene: Hiddenleaf_45 Start: 29369, Stop: 30214, Start Num: 68
Candidate Starts for Hiddenleaf_45:
(1, 28808), (5, 28904), (6, 28943), (7, 28949), (10, 28973), (14, 29069), (15, 29105), (Start: 68 @29369 has 44 MA's), (85, 29423), (92, 29459), (102, 29486), (120, 29531), (122, 29534), (132, 29579), (182, 29735), (191, 29771), (194, 29780), (195, 29783), (235, 29912), (239, 29927), (278, 30032), (293, 30074),

Gene: HippoPololi_38 Start: 28375, Stop: 27566, Start Num: 46
Candidate Starts for HippoPololi_38:
(Start: 46 @28375 has 60 MA's), (87, 28273), (127, 28162), (135, 28126), (143, 28108), (152, 28084), (157, 28069), (164, 28051), (169, 28033), (182, 27991), (195, 27943), (208, 27910), (217, 27883), (226, 27850), (243, 27781), (280, 27664),

Gene: HomeFry_70 Start: 49956, Stop: 49168, Start Num: 50
Candidate Starts for HomeFry_70:
(Start: 50 @49956 has 13 MA's), (56, 49944), (85, 49860), (132, 49713), (159, 49626), (190, 49524), (205, 49482), (208, 49476), (215, 49455), (239, 49365), (244, 49347), (249, 49332), (275, 49272),

Gene: Horseradish_42 Start: 28614, Stop: 27796, Start Num: 46
Candidate Starts for Horseradish_42:
(Start: 40 @28632 has 4 MA's), (Start: 46 @28614 has 60 MA's), (Start: 48 @28608 has 3 MA's), (100, 28458), (101, 28455), (127, 28395), (152, 28317), (164, 28284), (169, 28266), (182, 28224), (183, 28221), (192, 28185), (195, 28176), (216, 28119), (226, 28080), (236, 28035), (239, 28023), (243, 28011), (244, 28005), (293, 27852),

Gene: HubbaBubba_60 Start: 46888, Stop: 46091, Start Num: 58
Candidate Starts for HubbaBubba_60:
(Start: 58 @46888 has 29 MA's), (85, 46813), (183, 46507), (190, 46477), (193, 46468), (197, 46459), (215, 46405), (228, 46360), (233, 46339), (236, 46327), (239, 46315), (244, 46297), (275, 46216), (299, 46138),

Gene: Huwbert_81 Start: 49790, Stop: 50599, Start Num: 53
Candidate Starts for Huwbert_81:

(Start: 53 @49790 has 4 MA's), (104, 49937), (115, 49967), (127, 49988), (164, 50099), (169, 50117), (182, 50159), (183, 50162), (192, 50198), (205, 50234), (216, 50264), (217, 50267), (239, 50360), (244, 50378),

Gene: IDyn_64 Start: 48323, Stop: 47526, Start Num: 58
Candidate Starts for IDyn_64:
(Start: 48 @48350 has 3 MA's), (Start: 58 @48323 has 29 MA's), (85, 48248), (142, 48074), (183, 47942), (190, 47912), (193, 47903), (197, 47894), (215, 47840), (228, 47795), (233, 47774), (236, 47762), (239, 47750), (244, 47732), (275, 47651), (299, 47573),

Gene: Ichor_60 Start: 41212, Stop: 40472, Start Num: 80
Candidate Starts for Ichor_60:
(Start: 80 @41212 has 13 MA's), (86, 41182), (91, 41158), (93, 41146), (94, 41143), (96, 41137), (109, 41095), (111, 41086), (116, 41071), (121, 41062), (150, 40963), (155, 40948), (188, 40828), (193, 40810), (207, 40771), (210, 40762), (234, 40681), (242, 40654), (268, 40609), (269, 40606), (275, 40585), (286, 40540), (290, 40525),

Gene: Indlulamithi_69 Start: 49597, Stop: 50433, Start Num: 58
Candidate Starts for Indlulamithi_69:
(Start: 58 @49597 has 29 MA's), (Start: 72 @49612 has 3 MA's), (154, 49894), (166, 49930), (169, 49942), (172, 49951), (173, 49954), (192, 50023), (193, 50026), (205, 50059), (208, 50065), (215, 50086), (216, 50089), (233, 50152), (238, 50173), (239, 50176), (244, 50194), (248, 50212), (270, 50281), (276, 50302), (283, 50329), (298, 50377), (305, 50398),

Gene: Intolerant_51 Start: 37465, Stop: 38478, Start Num: 32
Candidate Starts for Intolerant_51:
(Start: 32 @37465 has 12 MA's), (41, 37489), (63, 37549), (Start: 71 @37564 has 22 MA's), (96, 37666), (104, 37693), (106, 37699), (135, 37798), (158, 37882), (166, 37903), (176, 37936), (191, 38002), (202, 38026), (211, 38050), (239, 38158), (245, 38182), (248, 38194), (250, 38200), (276, 38290), (291, 38356), (300, 38380), (306, 38398),

Gene: JDawG_44 Start: 29786, Stop: 30631, Start Num: 68
Candidate Starts for JDawG_44:
(1, 29225), (5, 29321), (6, 29360), (14, 29486), (15, 29522), (Start: 68 @29786 has 44 MA's), (85, 29840), (92, 29876), (102, 29903), (120, 29948), (122, 29951), (132, 29996), (182, 30152), (191, 30188), (194, 30197), (195, 30200), (235, 30329), (239, 30344), (278, 30449), (293, 30491),

Gene: JackieB_54 Start: 37297, Stop: 38307, Start Num: 32
Candidate Starts for JackieB_54:
(19, 37207), (Start: 32 @37297 has 12 MA's), (Start: 71 @37393 has 22 MA's), (96, 37495), (104, 37522), (106, 37528), (158, 37711), (176, 37765), (180, 37789), (191, 37831), (202, 37855), (206, 37867), (221, 37915), (248, 38023), (250, 38029), (276, 38119), (279, 38143), (285, 38158), (291, 38185), (299, 38206), (300, 38209), (306, 38227), (308, 38236),

Gene: JacoRen57_38 Start: 31703, Stop: 30873, Start Num: 40
Candidate Starts for JacoRen57_38:
(Start: 40 @31703 has 4 MA's), (87, 31568), (141, 31403), (164, 31340), (168, 31325), (191, 31244), (195, 31232), (232, 31112), (244, 31061), (249, 31040), (290, 30914), (294, 30902),

Gene: Jaek_60 Start: 41212, Stop: 40472, Start Num: 80
Candidate Starts for Jaek_60:
(Start: 80 @41212 has 13 MA's), (86, 41182), (91, 41158), (93, 41146), (94, 41143), (96, 41137), (109, 41095), (111, 41086), (116, 41071), (121, 41062), (150, 40963), (155, 40948), (188, 40828), (193,

40810), (207, 40771), (210, 40762), (234, 40681), (242, 40654), (268, 40609), (269, 40606), (275, 40585), (286, 40540), (290, 40525),

Gene: Jalebi_66 Start: 46242, Stop: 47312, Start Num: 67
Candidate Starts for Jalebi_66:
(Start: 67 @46242 has 51 MA's), (108, 46374), (127, 46422), (153, 46503), (157, 46515), (159, 46524), (163, 46533), (201, 46656), (209, 46677), (218, 46704), (239, 46785), (244, 46803), (249, 46824), (272, 46902), (295, 46986), (314, 47064), (322, 47151), (333, 47283),

Gene: Jamemuya19_66 Start: 44078, Stop: 45148, Start Num: 67
Candidate Starts for Jamemuya19_66:
(Start: 67 @44078 has 51 MA's), (94, 44174), (108, 44210), (127, 44258), (157, 44351), (159, 44360), (163, 44369), (201, 44492), (209, 44513), (218, 44540), (239, 44621), (244, 44639), (249, 44660), (272, 44738), (295, 44822), (333, 45119),

Gene: Jamzy_45 Start: 29543, Stop: 28737, Start Num: 45
Candidate Starts for Jamzy_45:
(23, 29627), (27, 29597), (29, 29591), (Start: 45 @29543 has 3 MA's), (Start: 46 @29540 has 60 MA's), (87, 29441), (127, 29330), (141, 29282), (157, 29237), (164, 29219), (168, 29204), (169, 29201), (183, 29156), (192, 29120), (195, 29111), (226, 29015), (232, 28991), (239, 28958), (243, 28946), (244, 28940), (249, 28919),

Gene: Jifall16_64 Start: 51698, Stop: 50877, Start Num: 58
Candidate Starts for Jifall16_64:
(Start: 58 @51698 has 29 MA's), (85, 51626), (152, 51404), (193, 51263), (197, 51254), (215, 51203), (225, 51167), (239, 51113), (244, 51095), (249, 51080), (290, 50957),

Gene: JingleBells_45 Start: 29520, Stop: 30365, Start Num: 68
Candidate Starts for JingleBells_45:
(6, 29094), (7, 29100), (10, 29124), (14, 29220), (15, 29256), (Start: 68 @29520 has 44 MA's), (85, 29574), (92, 29610), (102, 29637), (120, 29682), (122, 29685), (132, 29730), (182, 29886), (191, 29922), (194, 29931), (195, 29934), (235, 30063), (239, 30078), (278, 30183), (293, 30225),

Gene: Kabluna_68 Start: 51031, Stop: 50168, Start Num: 58
Candidate Starts for Kabluna_68:
(29, 51109), (Start: 58 @51031 has 29 MA's), (110, 50869), (152, 50743), (193, 50602), (205, 50569), (215, 50542), (233, 50476), (239, 50452), (244, 50434), (267, 50380), (277, 50350), (289, 50305),

Gene: KandZ_58 Start: 44615, Stop: 45475, Start Num: 71
Candidate Starts for KandZ_58:
(43, 44543), (Start: 71 @44615 has 22 MA's), (84, 44660), (87, 44672), (90, 44690), (92, 44702), (102, 44726), (103, 44729), (153, 44882), (159, 44903), (162, 44912), (166, 44918), (191, 45008), (192, 45011), (195, 45020), (204, 45041), (236, 45152), (239, 45164), (244, 45182), (263, 45233), (266, 45242), (275, 45272), (276, 45275),

Gene: Karate_44 Start: 30169, Stop: 31014, Start Num: 68
Candidate Starts for Karate_44:
(5, 29704), (6, 29743), (10, 29773), (15, 29905), (Start: 68 @30169 has 44 MA's), (85, 30223), (92, 30259), (102, 30286), (120, 30331), (122, 30334), (132, 30379), (182, 30535), (191, 30571), (194, 30580), (195, 30583), (235, 30712), (239, 30727), (278, 30832), (293, 30874),

Gene: Kate_46 Start: 30176, Stop: 31024, Start Num: 68
Candidate Starts for Kate_46:

(6, 29750), (10, 29780), (15, 29912), (Start: 68 @30176 has 44 MA's), (85, 30230), (92, 30266), (102, 30293), (120, 30338), (122, 30341), (132, 30386), (182, 30542), (191, 30578), (194, 30587), (195, 30590), (235, 30719), (239, 30734), (278, 30839), (293, 30881),

Gene: KayGee_43 Start: 30579, Stop: 29773, Start Num: 46
Candidate Starts for KayGee_43:
(Start: 46 @30579 has 60 MA's), (Start: 48 @30573 has 3 MA's), (87, 30471), (100, 30417), (127, 30354), (135, 30318), (164, 30243), (168, 30228), (182, 30183), (183, 30180), (192, 30144), (195, 30135), (216, 30078), (229, 30030), (230, 30027), (239, 29985), (275, 29892), (293, 29823),

Gene: KidneyBean_65 Start: 51822, Stop: 51001, Start Num: 58
Candidate Starts for KidneyBean_65:
(Start: 58 @51822 has 29 MA's), (85, 51750), (152, 51528), (193, 51387), (197, 51378), (215, 51327), (225, 51291), (239, 51237), (244, 51219), (249, 51204), (290, 51081),

Gene: KimJongPhill_83 Start: 61930, Stop: 62745, Start Num: 48
Candidate Starts for KimJongPhill_83:
(Start: 48 @61930 has 3 MA's), (83, 62008), (103, 62086), (152, 62212), (154, 62218), (164, 62245), (169, 62263), (182, 62305), (197, 62356), (208, 62386), (216, 62410), (231, 62467), (242, 62515), (244, 62524), (271, 62620), (287, 62683),

Gene: Kimchi1738_53 Start: 45055, Stop: 44291, Start Num: 65
Candidate Starts for Kimchi1738_53:
(Start: 65 @45055 has 17 MA's), (132, 44836), (225, 44554), (239, 44500), (262, 44455), (289, 44371),

Gene: Konstantine_76 Start: 53396, Stop: 54475, Start Num: 59
Candidate Starts for Konstantine_76:
(Start: 59 @53396 has 22 MA's), (73, 53414), (85, 53450), (122, 53558), (133, 53606), (142, 53627), (144, 53633), (159, 53693), (163, 53702), (166, 53708), (195, 53810), (208, 53843), (213, 53858), (224, 53897), (234, 53936), (239, 53954), (244, 53972), (245, 53975), (247, 53984), (268, 54050), (275, 54074), (319, 54266), (330, 54413), (331, 54416), (334, 54455), (335, 54464),

Gene: Kors_49 Start: 31190, Stop: 32032, Start Num: 68
Candidate Starts for Kors_49:
(Start: 68 @31190 has 44 MA's), (87, 31253), (114, 31337), (120, 31349), (122, 31352), (170, 31514), (191, 31586), (214, 31649), (217, 31658), (235, 31727), (239, 31742), (293, 31889),

Gene: Krampus_45 Start: 30176, Stop: 31024, Start Num: 68
Candidate Starts for Krampus_45:
(6, 29750), (10, 29780), (15, 29912), (Start: 68 @30176 has 44 MA's), (85, 30230), (92, 30266), (102, 30293), (120, 30338), (122, 30341), (132, 30386), (182, 30542), (191, 30578), (194, 30587), (195, 30590), (235, 30719), (239, 30734), (278, 30839), (293, 30881),

Gene: Kurt_65 Start: 52057, Stop: 51236, Start Num: 58
Candidate Starts for Kurt_65:
(Start: 48 @52084 has 3 MA's), (Start: 58 @52057 has 29 MA's), (85, 51985), (152, 51763), (193, 51622), (197, 51613), (215, 51562), (225, 51526), (239, 51472), (244, 51454), (249, 51439), (290, 51316),

Gene: Labelle_84 Start: 54626, Stop: 55684, Start Num: 67
Candidate Starts for Labelle_84:
(Start: 67 @54626 has 51 MA's), (86, 54683), (87, 54686), (92, 54716), (114, 54773), (122, 54788), (159, 54917), (168, 54941), (183, 54995), (189, 55019), (233, 55163), (234, 55169), (236, 55175),

(238, 55184), (239, 55187), (244, 55205), (251, 55232), (268, 55292), (278, 55340), (295, 55388), (301, 55406), (313, 55466), (316, 55487), (326, 55595), (327, 55610),

Gene: Lambo_65 Start: 44896, Stop: 45987, Start Num: 67
Candidate Starts for Lambo_65:
(Start: 67 @44896 has 51 MA's), (108, 45028), (127, 45076), (157, 45169), (159, 45178), (163, 45187), (201, 45310), (209, 45331), (218, 45358), (239, 45439), (244, 45457), (249, 45478), (272, 45556), (295, 45640), (322, 45805), (324, 45814), (333, 45958),

Gene: LastNadiia_38 Start: 25948, Stop: 25163, Start Num: 59
Candidate Starts for LastNadiia_38:
(44, 25999), (Start: 48 @25981 has 3 MA's), (Start: 59 @25948 has 22 MA's), (97, 25840), (103, 25819), (107, 25807), (119, 25771), (138, 25711), (147, 25684), (165, 25630), (175, 25597), (181, 25567), (191, 25531), (216, 25462), (219, 25453), (241, 25375), (245, 25357), (269, 25297), (275, 25276),

Gene: Lauer_38 Start: 31388, Stop: 30582, Start Num: 46
Candidate Starts for Lauer_38:
(Start: 46 @31388 has 60 MA's), (Start: 48 @31382 has 3 MA's), (87, 31280), (100, 31226), (127, 31163), (135, 31127), (164, 31052), (168, 31037), (182, 30992), (183, 30989), (192, 30953), (195, 30944), (216, 30887), (229, 30839), (230, 30836), (239, 30794), (275, 30701), (293, 30632),

Gene: LavAbarElk_67 Start: 44636, Stop: 45706, Start Num: 67
Candidate Starts for LavAbarElk_67:
(Start: 67 @44636 has 51 MA's), (108, 44768), (127, 44816), (153, 44897), (157, 44909), (159, 44918), (163, 44927), (201, 45050), (209, 45071), (218, 45098), (239, 45179), (244, 45197), (249, 45218), (272, 45296), (295, 45380), (322, 45545), (333, 45677),

Gene: LazerLemon_54 Start: 37996, Stop: 39006, Start Num: 32
Candidate Starts for LazerLemon_54:
(Start: 32 @37996 has 12 MA's), (63, 38077), (84, 38137), (96, 38194), (104, 38221), (134, 38323), (158, 38410), (176, 38464), (202, 38554), (206, 38566), (221, 38614), (248, 38722), (250, 38728), (276, 38818), (279, 38842), (285, 38857), (291, 38884), (300, 38908), (306, 38926), (308, 38935),

Gene: Leaf_139 Start: 83163, Stop: 84020, Start Num: 61
Candidate Starts for Leaf_139:
(41, 83106), (Start: 45 @83115 has 3 MA's), (Start: 61 @83163 has 4 MA's), (Start: 66 @83169 has 11 MA's), (81, 83214), (129, 83379), (130, 83382), (137, 83406), (140, 83415), (164, 83490), (166, 83496), (169, 83508), (176, 83529), (196, 83595), (218, 83652), (220, 83661), (221, 83664), (228, 83682), (232, 83697), (240, 83718), (243, 83727), (252, 83760), (262, 83799), (288, 83886),

Gene: Leopard_75 Start: 52296, Stop: 53216, Start Num: 60
Candidate Starts for Leopard_75:
(Start: 60 @52296 has 2 MA's), (Start: 72 @52311 has 3 MA's), (90, 52383), (92, 52395), (102, 52419), (103, 52422), (114, 52452), (133, 52515), (154, 52572), (159, 52590), (162, 52599), (166, 52605), (176, 52635), (224, 52794), (227, 52803), (228, 52806), (239, 52851), (244, 52869), (260, 52917), (277, 52965), (287, 53004), (312, 53109),

Gene: Lila22_68 Start: 45848, Stop: 46939, Start Num: 67
Candidate Starts for Lila22_68:
(Start: 67 @45848 has 51 MA's), (108, 45980), (127, 46028), (157, 46121), (159, 46130), (163, 46139), (201, 46262), (209, 46283), (218, 46310), (239, 46391), (244, 46409), (249, 46430), (272, 46508), (295, 46592), (322, 46757), (324, 46766), (333, 46910),

Gene: LilyPad_58 Start: 43001, Stop: 43912, Start Num: 66
Candidate Starts for LilyPad_58:
(Start: 66 @43001 has 11 MA's), (86, 43058), (87, 43061), (92, 43091), (146, 43241), (149, 43250), (159, 43295), (166, 43310), (169, 43322), (173, 43334), (185, 43373), (188, 43388), (193, 43406), (199, 43421), (233, 43532), (234, 43538), (239, 43556), (246, 43580), (247, 43586), (256, 43616), (280, 43709), (289, 43733), (320, 43883),

Gene: LittleFella_63 Start: 44521, Stop: 45468, Start Num: 66
Candidate Starts for LittleFella_63:
(Start: 66 @44521 has 11 MA's), (Start: 68 @44527 has 44 MA's), (102, 44644), (159, 44824), (166, 44839), (169, 44851), (214, 44992), (224, 45028), (239, 45085),

Gene: Lizz_64 Start: 46003, Stop: 45221, Start Num: 65
Candidate Starts for Lizz_64:
(Start: 65 @46003 has 17 MA's), (85, 45949), (88, 45940), (92, 45913), (102, 45889), (122, 45841), (154, 45736), (185, 45637), (186, 45631), (198, 45592), (205, 45571), (228, 45499), (239, 45454), (241, 45448), (245, 45430), (269, 45394), (286, 45331),

Gene: Lollipop1437_69 Start: 52704, Stop: 51925, Start Num: 50
Candidate Starts for Lollipop1437_69:
(Start: 50 @52704 has 13 MA's), (85, 52620), (193, 52272), (215, 52212), (225, 52176), (239, 52122), (244, 52104), (258, 52071), (261, 52062), (287, 51987), (290, 51975),

Gene: LongHai_43 Start: 31234, Stop: 30389, Start Num: 35
Candidate Starts for LongHai_43:
(Start: 35 @31234 has 2 MA's), (47, 31210), (82, 31117), (95, 31057), (127, 30979), (132, 30952), (164, 30868), (195, 30760), (205, 30733), (233, 30631), (243, 30595), (249, 30568), (274, 30505), (294, 30430), (298, 30421),

Gene: LordBart_49 Start: 31099, Stop: 31941, Start Num: 68
Candidate Starts for LordBart_49:
(Start: 68 @31099 has 44 MA's), (87, 31162), (114, 31246), (120, 31258), (122, 31261), (170, 31423), (182, 31459), (191, 31495), (214, 31558), (217, 31567), (235, 31636), (239, 31651), (293, 31798),

Gene: LuckyLeo_64 Start: 44646, Stop: 45731, Start Num: 67
Candidate Starts for LuckyLeo_64:
(Start: 67 @44646 has 51 MA's), (92, 44739), (108, 44778), (127, 44826), (159, 44928), (163, 44937), (201, 45060), (209, 45081), (214, 45096), (218, 45108), (239, 45189), (244, 45207), (249, 45228), (255, 45249), (272, 45306), (295, 45390), (332, 45690),

Gene: MAnor_43 Start: 30921, Stop: 30115, Start Num: 46
Candidate Starts for MAnor_43:
(Start: 46 @30921 has 60 MA's), (Start: 48 @30915 has 3 MA's), (87, 30813), (100, 30759), (127, 30696), (164, 30585), (168, 30570), (182, 30525), (183, 30522), (192, 30486), (195, 30477), (216, 30420), (229, 30372), (230, 30369), (239, 30327), (275, 30234), (293, 30165),

Gene: MScarn_43 Start: 28754, Stop: 27936, Start Num: 46
Candidate Starts for MScarn_43:
(Start: 40 @28772 has 4 MA's), (Start: 46 @28754 has 60 MA's), (Start: 48 @28748 has 3 MA's), (100, 28598), (101, 28595), (127, 28535), (152, 28457), (164, 28424), (169, 28406), (182, 28364), (183, 28361), (192, 28325), (195, 28316), (216, 28259), (226, 28220), (236, 28175), (243, 28151), (244, 28145), (293, 27992),

Gene: MaVan_38 Start: 28664, Stop: 27852, Start Num: 46
Candidate Starts for MaVan_38:
(24, 28736), (Start: 46 @28664 has 60 MA's), (127, 28448), (135, 28412), (152, 28370), (157, 28355), (164, 28337), (168, 28322), (169, 28319), (182, 28277), (195, 28229), (217, 28169), (226, 28136), (238, 28082), (243, 28067), (280, 27950),

Gene: MacGully_73 Start: 51597, Stop: 50779, Start Num: 67
Candidate Starts for MacGully_73:
(21, 51750), (39, 51672), (Start: 67 @51597 has 51 MA's), (Start: 69 @51591 has 1 MA's), (85, 51537), (126, 51411), (159, 51294), (169, 51267), (173, 51255), (183, 51216), (191, 51183), (212, 51126), (245, 51003), (263, 50958), (309, 50805),

Gene: Maco6_40 Start: 30176, Stop: 29331, Start Num: 35
Candidate Starts for Maco6_40:
(Start: 35 @30176 has 2 MA's), (47, 30152), (82, 30059), (95, 29999), (127, 29921), (132, 29894), (152, 29843), (164, 29810), (191, 29714), (195, 29702), (205, 29675), (233, 29573), (243, 29537), (249, 29510), (274, 29447), (294, 29372), (298, 29363),

Gene: Madi_56 Start: 41882, Stop: 42811, Start Num: 66
Candidate Starts for Madi_56:
(Start: 66 @41882 has 11 MA's), (86, 41939), (92, 41972), (146, 42122), (149, 42131), (153, 42155), (159, 42176), (166, 42191), (169, 42203), (173, 42215), (185, 42254), (188, 42269), (199, 42302), (233, 42413), (234, 42419), (239, 42437), (246, 42461), (247, 42467), (256, 42497), (263, 42521), (289, 42614), (320, 42782),

Gene: Madruga_83 Start: 54580, Stop: 55638, Start Num: 67
Candidate Starts for Madruga_83:
(Start: 67 @54580 has 51 MA's), (86, 54637), (87, 54640), (92, 54670), (114, 54727), (122, 54742), (159, 54871), (168, 54895), (183, 54949), (189, 54973), (233, 55117), (234, 55123), (236, 55129), (238, 55138), (239, 55141), (244, 55159), (251, 55186), (268, 55246), (278, 55294), (295, 55342), (301, 55360), (313, 55420), (316, 55441), (326, 55549), (327, 55564),

Gene: Makima_36 Start: 25073, Stop: 24285, Start Num: 59
Candidate Starts for Makima_36:
(30, 25163), (34, 25148), (Start: 48 @25106 has 3 MA's), (Start: 59 @25073 has 22 MA's), (76, 25046), (97, 24962), (102, 24944), (107, 24929), (131, 24860), (138, 24833), (147, 24806), (155, 24782), (165, 24752), (175, 24719), (181, 24689), (191, 24653), (219, 24575), (245, 24479), (269, 24419),

Gene: Malvina_39 Start: 28373, Stop: 27564, Start Num: 46
Candidate Starts for Malvina_39:
(Start: 46 @28373 has 60 MA's), (87, 28271), (127, 28160), (143, 28106), (152, 28082), (157, 28067), (164, 28049), (169, 28031), (182, 27989), (195, 27941), (217, 27881), (226, 27848), (243, 27779), (280, 27662),

Gene: Margaret_46 Start: 30292, Stop: 29483, Start Num: 45
Candidate Starts for Margaret_46:
(Start: 45 @30292 has 3 MA's), (Start: 46 @30289 has 60 MA's), (87, 30187), (100, 30133), (127, 30076), (135, 30040), (157, 29983), (164, 29965), (168, 29950), (169, 29947), (183, 29902), (192, 29866), (195, 29857), (226, 29761), (239, 29704), (266, 29638), (275, 29605),

Gene: Marietta_66 Start: 48435, Stop: 47638, Start Num: 58
Candidate Starts for Marietta_66:

(Start: 58 @48435 has 29 MA's), (85, 48360), (142, 48186), (183, 48054), (190, 48024), (193, 48015), (197, 48006), (205, 47979), (215, 47952), (228, 47907), (236, 47874), (239, 47862), (244, 47844), (275, 47763), (299, 47685),

Gene: Marky_57 Start: 38456, Stop: 39469, Start Num: 32
Candidate Starts for Marky_57:
(Start: 32 @38456 has 12 MA's), (Start: 71 @38558 has 22 MA's), (96, 38660), (104, 38687), (106, 38693), (134, 38789), (156, 38870), (158, 38876), (176, 38930), (191, 38996), (202, 39020), (206, 39032), (221, 39080), (248, 39188), (250, 39194), (260, 39236), (276, 39284), (285, 39323), (291, 39350), (299, 39371), (300, 39374), (306, 39392), (308, 39401),

Gene: Maselop_64 Start: 48423, Stop: 47572, Start Num: 67
Candidate Starts for Maselop_64:
(Start: 67 @48423 has 51 MA's), (85, 48363), (126, 48243), (130, 48231), (159, 48129), (162, 48120), (169, 48102), (173, 48090), (191, 48018), (239, 47862), (244, 47844), (245, 47838), (284, 47715), (296, 47679), (304, 47658),

Gene: Mayweather_45 Start: 31200, Stop: 30394, Start Num: 46
Candidate Starts for Mayweather_45:
(Start: 46 @31200 has 60 MA's), (Start: 48 @31194 has 3 MA's), (87, 31092), (100, 31038), (127, 30975), (164, 30864), (168, 30849), (182, 30804), (183, 30801), (192, 30765), (195, 30756), (216, 30699), (229, 30651), (230, 30648), (239, 30606), (275, 30513), (293, 30444),

Gene: McDazzle_43 Start: 30530, Stop: 29724, Start Num: 46
Candidate Starts for McDazzle_43:
(Start: 46 @30530 has 60 MA's), (87, 30422), (100, 30368), (127, 30305), (164, 30194), (168, 30179), (182, 30134), (183, 30131), (192, 30095), (195, 30086), (216, 30029), (229, 29981), (230, 29978), (239, 29936), (275, 29843), (293, 29774),

Gene: Megatron06_73 Start: 53142, Stop: 54218, Start Num: 59
Candidate Starts for Megatron06_73:
(Start: 59 @53142 has 22 MA's), (Start: 65 @53148 has 17 MA's), (73, 53160), (85, 53196), (122, 53304), (133, 53352), (145, 53382), (159, 53439), (163, 53448), (166, 53454), (195, 53556), (208, 53589), (213, 53604), (224, 53643), (234, 53682), (239, 53700), (244, 53718), (245, 53721), (247, 53730), (268, 53796), (275, 53820), (319, 54009), (330, 54156), (331, 54159), (334, 54198), (335, 54207),

Gene: MerCougar_67 Start: 52388, Stop: 51525, Start Num: 58
Candidate Starts for MerCougar_67:
(Start: 58 @52388 has 29 MA's), (152, 52100), (169, 52049), (193, 51959), (209, 51917), (215, 51899), (225, 51863), (233, 51833), (239, 51809), (244, 51791),

Gene: Microdon_52 Start: 37262, Stop: 38275, Start Num: 32
Candidate Starts for Microdon_52:
(Start: 32 @37262 has 12 MA's), (Start: 61 @37343 has 4 MA's), (Start: 71 @37361 has 22 MA's), (96, 37463), (104, 37490), (135, 37595), (158, 37679), (166, 37700), (176, 37733), (191, 37799), (202, 37823), (211, 37847), (239, 37955), (245, 37979), (248, 37991), (250, 37997), (276, 38087), (281, 38114), (291, 38153), (300, 38177), (306, 38195),

Gene: Mima20_67 Start: 45405, Stop: 46475, Start Num: 67
Candidate Starts for Mima20_67:
(Start: 67 @45405 has 51 MA's), (108, 45537), (127, 45585), (153, 45666), (157, 45678), (159, 45687), (163, 45696), (201, 45819), (209, 45840), (218, 45867), (239, 45948), (244, 45966), (249, 45987),

(272, 46065), (295, 46149), (322, 46314), (333, 46446),

Gene: Mireles_39 Start: 24631, Stop: 23843, Start Num: 59
Candidate Starts for Mireles_39:
(30, 24721), (31, 24718), (34, 24706), (Start: 48 @24664 has 3 MA's), (Start: 59 @24631 has 22 MA's), (76, 24604), (81, 24589), (97, 24520), (102, 24502), (107, 24487), (125, 24433), (138, 24391), (139, 24388), (147, 24364), (155, 24340), (165, 24310), (175, 24277), (181, 24247), (191, 24211), (219, 24133), (245, 24037), (269, 23977),

Gene: MoiGyank_70 Start: 46170, Stop: 47240, Start Num: 67
Candidate Starts for MoiGyank_70:
(Start: 67 @46170 has 51 MA's), (108, 46302), (127, 46350), (153, 46431), (157, 46443), (159, 46452), (163, 46461), (201, 46584), (209, 46605), (218, 46632), (239, 46713), (244, 46731), (249, 46752), (272, 46830), (295, 46914), (314, 46992), (322, 47079), (333, 47211),

Gene: Molivia_62 Start: 39615, Stop: 38878, Start Num: 80
Candidate Starts for Molivia_62:
(Start: 80 @39615 has 13 MA's), (93, 39552), (94, 39549), (96, 39543), (109, 39501), (116, 39477), (136, 39411), (148, 39375), (150, 39369), (155, 39354), (188, 39234), (193, 39216), (207, 39177), (210, 39168), (225, 39117), (234, 39087), (268, 39015), (286, 38946), (290, 38931),

Gene: MontyDev_72 Start: 52628, Stop: 53458, Start Num: 57
Candidate Starts for MontyDev_72:
(Start: 57 @52628 has 10 MA's), (79, 52673), (86, 52703), (92, 52736), (102, 52760), (122, 52808), (128, 52829), (153, 52922), (163, 52952), (165, 52955), (169, 52967), (195, 53051), (211, 53081), (234, 53165), (236, 53171), (239, 53183), (244, 53201), (252, 53228), (253, 53231), (282, 53327), (292, 53348), (302, 53375),

Gene: Mopey_60 Start: 44493, Stop: 45353, Start Num: 71
Candidate Starts for Mopey_60:
(43, 44421), (Start: 71 @44493 has 22 MA's), (84, 44538), (87, 44550), (90, 44568), (92, 44580), (102, 44604), (103, 44607), (153, 44760), (159, 44781), (162, 44790), (166, 44796), (191, 44886), (192, 44889), (195, 44898), (204, 44919), (236, 45030), (239, 45042), (244, 45060), (263, 45111), (266, 45120), (275, 45150), (276, 45153),

Gene: MortySmith_43 Start: 29204, Stop: 30049, Start Num: 68
Candidate Starts for MortySmith_43:
(6, 28778), (10, 28808), (11, 28835), (14, 28904), (15, 28940), (Start: 68 @29204 has 44 MA's), (85, 29258), (92, 29294), (102, 29321), (120, 29366), (122, 29369), (132, 29414), (182, 29570), (191, 29606), (194, 29615), (195, 29618), (235, 29747), (239, 29762), (278, 29867), (293, 29909),

Gene: MrMiyagi_77 Start: 49209, Stop: 50072, Start Num: 42
Candidate Starts for MrMiyagi_77:
(Start: 42 @49209 has 2 MA's), (103, 49395), (120, 49437), (122, 49440), (145, 49518), (151, 49548), (166, 49590), (173, 49614), (190, 49677), (193, 49686), (200, 49704), (208, 49725), (237, 49827), (239, 49836), (245, 49860), (256, 49893), (264, 49920), (273, 49950), (276, 49959), (280, 49983), (298, 50034),

Gene: Muddy_42 Start: 31408, Stop: 30563, Start Num: 35
Candidate Starts for Muddy_42:
(Start: 35 @31408 has 2 MA's), (47, 31384), (82, 31291), (95, 31231), (127, 31153), (132, 31126), (164, 31042), (195, 30934), (205, 30907), (233, 30805), (243, 30769), (249, 30742), (274, 30679), (294, 30604), (298, 30595),

Gene: MunkgeeRoachy_38 Start: 28070, Stop: 27252, Start Num: 46
Candidate Starts for MunkgeeRoachy_38:
(Start: 46 @28070 has 60 MA's), (100, 27914), (101, 27911), (119, 27863), (127, 27851), (152, 27773), (164, 27740), (168, 27725), (169, 27722), (182, 27680), (192, 27641), (195, 27632), (216, 27575), (232, 27512), (244, 27461), (280, 27347),

Gene: NadineRae_65 Start: 48044, Stop: 47247, Start Num: 58
Candidate Starts for NadineRae_65:
(Start: 58 @48044 has 29 MA's), (85, 47969), (183, 47663), (190, 47633), (193, 47624), (197, 47615), (215, 47561), (228, 47516), (233, 47495), (236, 47483), (239, 47471), (244, 47453), (275, 47372), (299, 47294),

Gene: NarutoRun_45 Start: 30144, Stop: 30992, Start Num: 68
Candidate Starts for NarutoRun_45:
(6, 29718), (10, 29748), (15, 29880), (Start: 68 @30144 has 44 MA's), (85, 30198), (92, 30234), (102, 30261), (120, 30306), (122, 30309), (132, 30354), (182, 30510), (191, 30546), (194, 30555), (195, 30558), (235, 30687), (239, 30702), (278, 30807), (293, 30849),

Gene: NatB6_65 Start: 51126, Stop: 50305, Start Num: 58
Candidate Starts for NatB6_65:
(Start: 48 @51153 has 3 MA's), (Start: 58 @51126 has 29 MA's), (85, 51054), (152, 50832), (193, 50691), (197, 50682), (215, 50631), (225, 50595), (239, 50541), (244, 50523), (249, 50508), (290, 50385),

Gene: Neptune_45 Start: 30144, Stop: 30992, Start Num: 68
Candidate Starts for Neptune_45:
(6, 29718), (10, 29748), (15, 29880), (Start: 68 @30144 has 44 MA's), (85, 30198), (92, 30234), (102, 30261), (120, 30306), (122, 30309), (132, 30354), (182, 30510), (191, 30546), (194, 30555), (195, 30558), (235, 30687), (239, 30702), (278, 30807), (293, 30849),

Gene: Nettle_68 Start: 45823, Stop: 46893, Start Num: 67
Candidate Starts for Nettle_68:
(Start: 67 @45823 has 51 MA's), (108, 45955), (127, 46003), (157, 46096), (159, 46105), (163, 46114), (201, 46237), (209, 46258), (218, 46285), (239, 46366), (244, 46384), (249, 46405), (272, 46483), (295, 46567), (314, 46645), (322, 46732), (333, 46864),

Gene: Neuvillette_36 Start: 23603, Stop: 22809, Start Num: 59
Candidate Starts for Neuvillette_36:
(Start: 48 @23636 has 3 MA's), (Start: 59 @23603 has 22 MA's), (97, 23489), (107, 23456), (119, 23420), (138, 23360), (139, 23357), (147, 23333), (155, 23309), (160, 23288), (165, 23279), (175, 23246), (181, 23216), (191, 23180), (219, 23102), (247, 22997), (269, 22946), (275, 22925),

Gene: Nibbles_37 Start: 28351, Stop: 27539, Start Num: 46
Candidate Starts for Nibbles_37:
(24, 28423), (28, 28399), (Start: 46 @28351 has 60 MA's), (127, 28135), (135, 28099), (152, 28057), (157, 28042), (164, 28024), (168, 28009), (169, 28006), (182, 27964), (195, 27916), (217, 27856), (226, 27823), (238, 27769), (243, 27754), (280, 27637),

Gene: Nilo_72 Start: 52985, Stop: 53815, Start Num: 57
Candidate Starts for Nilo_72:
(Start: 57 @52985 has 10 MA's), (79, 53030), (86, 53060), (92, 53093), (102, 53117), (122, 53165), (128, 53186), (153, 53279), (163, 53309), (165, 53312), (169, 53324), (195, 53408), (211, 53438),

(234, 53522), (236, 53528), (239, 53540), (244, 53558), (252, 53585), (253, 53588), (282, 53684), (292, 53705), (302, 53732),

Gene: Nina_39 Start: 28732, Stop: 27914, Start Num: 46
Candidate Starts for Nina_39:
(Start: 46 @28732 has 60 MA's), (100, 28576), (101, 28573), (119, 28525), (127, 28513), (152, 28435), (164, 28402), (168, 28387), (169, 28384), (177, 28360), (182, 28342), (192, 28303), (195, 28294), (216, 28237), (232, 28174), (244, 28123), (280, 28009), (293, 27970),

Gene: Nish23_74 Start: 52603, Stop: 53682, Start Num: 59
Candidate Starts for Nish23_74:
(25, 52492), (Start: 59 @52603 has 22 MA's), (Start: 65 @52609 has 17 MA's), (73, 52621), (85, 52657), (122, 52765), (133, 52813), (142, 52834), (144, 52840), (159, 52900), (163, 52909), (166, 52915), (195, 53017), (208, 53050), (213, 53065), (224, 53104), (234, 53143), (239, 53161), (244, 53179), (245, 53182), (247, 53191), (268, 53257), (275, 53281), (319, 53473), (330, 53620), (331, 53623), (334, 53662), (335, 53671),

Gene: NoShow_50 Start: 34311, Stop: 33472, Start Num: 37
Candidate Starts for NoShow_50:
(Start: 37 @34311 has 1 MA's), (95, 34125), (104, 34098), (152, 33969), (164, 33936), (195, 33828), (232, 33708), (244, 33657), (271, 33585), (293, 33501),

Gene: Nodigi_47 Start: 31327, Stop: 30521, Start Num: 46
Candidate Starts for Nodigi_47:
(29, 31369), (Start: 45 @31330 has 3 MA's), (Start: 46 @31327 has 60 MA's), (87, 31225), (100, 31171), (101, 31168), (127, 31114), (135, 31078), (157, 31021), (164, 31003), (169, 30985), (183, 30940), (195, 30895), (226, 30799), (232, 30775), (239, 30742), (243, 30730), (266, 30676), (275, 30643),

Gene: Nonagon_62 Start: 41552, Stop: 40740, Start Num: 55
Candidate Starts for Nonagon_62:
(38, 41603), (Start: 55 @41552 has 2 MA's), (64, 41528), (73, 41507), (Start: 80 @41489 has 13 MA's), (89, 41453), (139, 41270), (161, 41198), (164, 41195), (174, 41162), (187, 41102), (214, 41027), (293, 40784),

Gene: NorManre_71 Start: 46296, Stop: 47387, Start Num: 67
Candidate Starts for NorManre_71:
(Start: 67 @46296 has 51 MA's), (108, 46428), (127, 46476), (157, 46569), (159, 46578), (163, 46587), (201, 46710), (209, 46731), (218, 46758), (239, 46839), (244, 46857), (249, 46878), (272, 46956), (295, 47040), (322, 47205), (324, 47214), (333, 47358),

Gene: NosilaM_67 Start: 51702, Stop: 50839, Start Num: 58
Candidate Starts for NosilaM_67:
(Start: 58 @51702 has 29 MA's), (110, 51540), (152, 51414), (193, 51273), (205, 51240), (215, 51213), (217, 51207), (233, 51147), (239, 51123), (244, 51105), (267, 51051), (277, 51021), (289, 50976),

Gene: Nova_58 Start: 44945, Stop: 45805, Start Num: 71
Candidate Starts for Nova_58:
(43, 44873), (Start: 71 @44945 has 22 MA's), (84, 44990), (87, 45002), (90, 45020), (92, 45032), (102, 45056), (103, 45059), (153, 45212), (159, 45233), (162, 45242), (166, 45248), (191, 45338), (192, 45341), (195, 45350), (204, 45371), (236, 45482), (239, 45494), (244, 45512), (263, 45563), (266, 45572), (275, 45602), (276, 45605),

Gene: NovaSharks_69 Start: 44064, Stop: 45134, Start Num: 67
Candidate Starts for NovaSharks_69:
(Start: 67 @44064 has 51 MA's), (94, 44160), (108, 44196), (127, 44244), (157, 44337), (159, 44346), (163, 44355), (201, 44478), (209, 44499), (218, 44526), (239, 44607), (244, 44625), (249, 44646), (272, 44724), (295, 44808), (333, 45105),

Gene: NovumRegina_65 Start: 51435, Stop: 50614, Start Num: 58
Candidate Starts for NovumRegina_65:
(Start: 48 @51462 has 3 MA's), (Start: 58 @51435 has 29 MA's), (85, 51363), (152, 51141), (193, 51000), (197, 50991), (215, 50940), (225, 50904), (239, 50850), (244, 50832), (249, 50817), (290, 50694),

Gene: Oaker_72 Start: 53171, Stop: 54247, Start Num: 59
Candidate Starts for Oaker_72:
(Start: 59 @53171 has 22 MA's), (Start: 65 @53177 has 17 MA's), (85, 53225), (122, 53333), (133, 53381), (145, 53411), (159, 53468), (163, 53477), (166, 53483), (195, 53585), (208, 53618), (213, 53633), (224, 53672), (234, 53711), (239, 53729), (244, 53747), (245, 53750), (247, 53759), (268, 53825), (275, 53849), (319, 54038), (330, 54185), (331, 54188), (334, 54227), (335, 54236),

Gene: OhDear_45 Start: 30142, Stop: 30990, Start Num: 68
Candidate Starts for OhDear_45:
(6, 29716), (10, 29746), (15, 29878), (Start: 68 @30142 has 44 MA's), (85, 30196), (92, 30232), (102, 30259), (120, 30304), (122, 30307), (132, 30352), (182, 30508), (191, 30544), (194, 30553), (195, 30556), (235, 30685), (239, 30700), (278, 30805), (293, 30847),

Gene: Onyinye_76 Start: 52178, Stop: 53083, Start Num: 72
Candidate Starts for Onyinye_76:
(Start: 60 @52163 has 2 MA's), (Start: 72 @52178 has 3 MA's), (90, 52250), (92, 52262), (102, 52286), (103, 52289), (114, 52319), (133, 52382), (154, 52439), (159, 52457), (162, 52466), (166, 52472), (176, 52502), (224, 52661), (227, 52670), (228, 52673), (239, 52718), (244, 52736), (260, 52784), (277, 52832), (287, 52871), (312, 52976), (317, 53024),

Gene: Orla_47 Start: 31300, Stop: 30494, Start Num: 46
Candidate Starts for Orla_47:
(29, 31342), (Start: 45 @31303 has 3 MA's), (Start: 46 @31300 has 60 MA's), (87, 31198), (100, 31144), (101, 31141), (127, 31087), (135, 31051), (157, 30994), (164, 30976), (169, 30958), (192, 30877), (195, 30868), (226, 30772), (232, 30748), (239, 30715), (243, 30703), (266, 30649), (275, 30616),

Gene: OtterstedtS21_67 Start: 45230, Stop: 46321, Start Num: 67
Candidate Starts for OtterstedtS21_67:
(Start: 67 @45230 has 51 MA's), (108, 45362), (127, 45410), (153, 45491), (157, 45503), (159, 45512), (163, 45521), (201, 45644), (209, 45665), (218, 45692), (239, 45773), (244, 45791), (249, 45812), (272, 45890), (295, 45974), (322, 46139), (324, 46148), (333, 46292),

Gene: Outis_66 Start: 51894, Stop: 51040, Start Num: 66
Candidate Starts for Outis_66:
(Start: 66 @51894 has 11 MA's), (152, 51615), (169, 51564), (193, 51474), (209, 51432), (215, 51414), (225, 51378), (233, 51348), (239, 51324), (244, 51306),

Gene: OverHedge_45 Start: 30134, Stop: 30982, Start Num: 68
Candidate Starts for OverHedge_45:

(6, 29708), (10, 29738), (15, 29870), (Start: 68 @30134 has 44 MA's), (85, 30188), (92, 30224), (102, 30251), (120, 30296), (122, 30299), (132, 30344), (182, 30500), (191, 30536), (194, 30545), (195, 30548), (235, 30677), (239, 30692), (278, 30797), (293, 30839),

Gene: P1201_70 Start: 52915, Stop: 52136, Start Num: 67
Candidate Starts for P1201_70:
(Start: 67 @52915 has 51 MA's), (85, 52858), (86, 52855), (137, 52684), (159, 52621), (213, 52456), (228, 52405), (239, 52360), (241, 52354), (245, 52336),

Gene: PBI1_56 Start: 44420, Stop: 45280, Start Num: 71
Candidate Starts for PBI1_56:
(43, 44348), (Start: 71 @44420 has 22 MA's), (84, 44465), (87, 44477), (90, 44495), (92, 44507), (102, 44531), (103, 44534), (153, 44687), (159, 44708), (162, 44717), (166, 44723), (191, 44813), (192, 44816), (195, 44825), (204, 44846), (236, 44957), (239, 44969), (244, 44987), (263, 45038), (266, 45047), (275, 45077), (276, 45080),

Gene: PHTowN_64 Start: 46001, Stop: 45219, Start Num: 65
Candidate Starts for PHTowN_64:
(Start: 65 @46001 has 17 MA's), (85, 45947), (88, 45938), (92, 45911), (102, 45887), (122, 45839), (154, 45734), (185, 45635), (186, 45629), (198, 45590), (205, 45569), (228, 45497), (239, 45452), (241, 45446), (245, 45428), (269, 45392), (286, 45329),

Gene: PLot_59 Start: 44472, Stop: 45332, Start Num: 71
Candidate Starts for PLot_59:
(43, 44400), (Start: 71 @44472 has 22 MA's), (84, 44517), (87, 44529), (90, 44547), (92, 44559), (102, 44583), (103, 44586), (153, 44739), (159, 44760), (162, 44769), (166, 44775), (191, 44865), (192, 44868), (195, 44877), (204, 44898), (236, 45009), (239, 45021), (244, 45039), (263, 45090), (266, 45099), (275, 45129), (276, 45132),

Gene: Papyrus_70 Start: 52595, Stop: 53425, Start Num: 57
Candidate Starts for Papyrus_70:
(Start: 57 @52595 has 10 MA's), (79, 52640), (86, 52670), (92, 52703), (102, 52727), (122, 52775), (128, 52796), (153, 52889), (163, 52919), (165, 52922), (169, 52934), (195, 53018), (211, 53048), (234, 53132), (236, 53138), (239, 53150), (244, 53168), (252, 53195), (253, 53198), (282, 53294), (292, 53315), (302, 53342),

Gene: ParvusTarda_66 Start: 44602, Stop: 45693, Start Num: 67
Candidate Starts for ParvusTarda_66:
(Start: 67 @44602 has 51 MA's), (108, 44734), (127, 44782), (157, 44875), (159, 44884), (163, 44893), (201, 45016), (209, 45037), (218, 45064), (239, 45145), (244, 45163), (249, 45184), (272, 45262), (295, 45346), (322, 45511), (324, 45520), (333, 45664),

Gene: Patience_85 Start: 55493, Stop: 56551, Start Num: 67
Candidate Starts for Patience_85:
(Start: 67 @55493 has 51 MA's), (86, 55550), (87, 55553), (92, 55583), (114, 55640), (122, 55655), (159, 55784), (168, 55808), (183, 55862), (189, 55886), (233, 56030), (234, 56036), (236, 56042), (238, 56051), (239, 56054), (244, 56072), (251, 56099), (268, 56159), (278, 56207), (295, 56255), (301, 56273), (313, 56333), (316, 56354), (326, 56462), (327, 56477),

Gene: Patio_67 Start: 51761, Stop: 50982, Start Num: 50
Candidate Starts for Patio_67:
(Start: 50 @51761 has 13 MA's), (85, 51677), (193, 51329), (215, 51269), (225, 51233), (239, 51179), (244, 51161), (258, 51128), (261, 51119), (287, 51044), (290, 51032),

Gene: Patos_71 Start: 46295, Stop: 47386, Start Num: 67
Candidate Starts for Patos_71:
(Start: 67 @46295 has 51 MA's), (108, 46427), (127, 46475), (157, 46568), (159, 46577), (163, 46586), (201, 46709), (209, 46730), (218, 46757), (239, 46838), (244, 46856), (249, 46877), (272, 46955), (295, 47039), (322, 47204), (324, 47213), (333, 47357),

Gene: Pemberton_67 Start: 48797, Stop: 48000, Start Num: 58
Candidate Starts for Pemberton_67:
(26, 48896), (Start: 48 @48824 has 3 MA's), (Start: 58 @48797 has 29 MA's), (85, 48722), (142, 48548), (183, 48416), (190, 48386), (193, 48377), (197, 48368), (205, 48341), (215, 48314), (228, 48269), (236, 48236), (239, 48224), (244, 48206), (275, 48125), (299, 48047),

Gene: Penelope2018_59 Start: 44490, Stop: 45350, Start Num: 71
Candidate Starts for Penelope2018_59:
(43, 44418), (Start: 71 @44490 has 22 MA's), (84, 44535), (87, 44547), (90, 44565), (92, 44577), (102, 44601), (103, 44604), (153, 44757), (159, 44778), (162, 44787), (166, 44793), (191, 44883), (192, 44886), (195, 44895), (204, 44916), (236, 45027), (239, 45039), (244, 45057), (263, 45108), (266, 45117), (275, 45147), (276, 45150),

Gene: PeteyPab_53 Start: 45339, Stop: 44575, Start Num: 65
Candidate Starts for PeteyPab_53:
(Start: 65 @45339 has 17 MA's), (132, 45120), (159, 45045), (225, 44838), (239, 44784), (262, 44739), (289, 44655),

Gene: Phalaborwa_62 Start: 44931, Stop: 45791, Start Num: 71
Candidate Starts for Phalaborwa_62:
(43, 44859), (Start: 71 @44931 has 22 MA's), (87, 44988), (90, 45006), (92, 45018), (102, 45042), (103, 45045), (153, 45198), (159, 45219), (162, 45228), (166, 45234), (191, 45324), (192, 45327), (195, 45336), (204, 45357), (236, 45468), (239, 45480), (244, 45498), (263, 45549), (266, 45558), (276, 45591),

Gene: Pharpay_45 Start: 30189, Stop: 31037, Start Num: 68
Candidate Starts for Pharpay_45:
(6, 29763), (10, 29793), (15, 29925), (Start: 68 @30189 has 44 MA's), (85, 30243), (92, 30279), (102, 30306), (120, 30351), (122, 30354), (132, 30399), (182, 30555), (191, 30591), (194, 30600), (195, 30603), (235, 30732), (239, 30747), (278, 30852), (293, 30894),

Gene: Phomeo_64 Start: 51694, Stop: 50873, Start Num: 58
Candidate Starts for Phomeo_64:
(Start: 58 @51694 has 29 MA's), (85, 51622), (152, 51400), (193, 51259), (197, 51250), (215, 51199), (225, 51163), (239, 51109), (244, 51091), (249, 51076), (290, 50953),

Gene: Phreeze_71 Start: 52138, Stop: 53217, Start Num: 59
Candidate Starts for Phreeze_71:
(Start: 59 @52138 has 22 MA's), (Start: 65 @52144 has 17 MA's), (85, 52192), (122, 52300), (133, 52348), (145, 52378), (159, 52435), (163, 52444), (166, 52450), (195, 52552), (208, 52585), (213, 52600), (224, 52639), (234, 52678), (239, 52696), (244, 52714), (245, 52717), (247, 52726), (268, 52792), (275, 52816), (319, 53008), (330, 53155), (331, 53158), (334, 53197), (335, 53206),

Gene: PhunaPhoke_45 Start: 30162, Stop: 31010, Start Num: 68
Candidate Starts for PhunaPhoke_45:

(6, 29736), (10, 29766), (15, 29898), (Start: 68 @30162 has 44 MA's), (85, 30216), (92, 30252), (102, 30279), (120, 30324), (122, 30327), (132, 30372), (182, 30528), (191, 30564), (194, 30573), (195, 30576), (235, 30705), (239, 30720), (278, 30825), (293, 30867),

Gene: Pleakley_74 Start: 51254, Stop: 50463, Start Num: 50
Candidate Starts for Pleakley_74:
(Start: 50 @51254 has 13 MA's), (85, 51158), (159, 50924), (193, 50813), (197, 50804), (204, 50786), (208, 50774), (215, 50753), (239, 50663), (244, 50645), (249, 50630), (275, 50570),

Gene: Polyyuki_64 Start: 48412, Stop: 47561, Start Num: 67
Candidate Starts for Polyyuki_64:
(Start: 67 @48412 has 51 MA's), (85, 48352), (126, 48232), (130, 48220), (159, 48118), (162, 48109), (169, 48091), (173, 48079), (191, 48007), (239, 47851), (244, 47833), (245, 47827), (284, 47704), (296, 47668), (304, 47647),

Gene: Pons_43 Start: 30551, Stop: 29745, Start Num: 46
Candidate Starts for Pons_43:
(Start: 46 @30551 has 60 MA's), (Start: 48 @30545 has 3 MA's), (87, 30443), (100, 30389), (127, 30326), (135, 30290), (164, 30215), (168, 30200), (182, 30155), (183, 30152), (192, 30116), (195, 30107), (216, 30050), (229, 30002), (230, 29999), (239, 29957), (275, 29864), (293, 29795),

Gene: PotPie_42 Start: 31482, Stop: 30676, Start Num: 46
Candidate Starts for PotPie_42:
(Start: 46 @31482 has 60 MA's), (Start: 48 @31476 has 3 MA's), (87, 31374), (100, 31320), (127, 31257), (164, 31146), (168, 31131), (182, 31086), (183, 31083), (192, 31047), (195, 31038), (216, 30981), (229, 30933), (230, 30930), (239, 30888), (275, 30795), (293, 30726),

Gene: PotatoChip_54 Start: 45341, Stop: 44577, Start Num: 65
Candidate Starts for PotatoChip_54:
(Start: 65 @45341 has 17 MA's), (132, 45122), (159, 45047), (225, 44840), (239, 44786), (262, 44741), (289, 44657),

Gene: Potty_45 Start: 30167, Stop: 31015, Start Num: 68
Candidate Starts for Potty_45:
(6, 29741), (10, 29771), (15, 29903), (Start: 68 @30167 has 44 MA's), (85, 30221), (92, 30257), (102, 30284), (120, 30329), (122, 30332), (132, 30377), (182, 30533), (191, 30569), (194, 30578), (195, 30581), (235, 30710), (239, 30725), (278, 30830), (293, 30872),

Gene: Poultress_44 Start: 30482, Stop: 31330, Start Num: 68
Candidate Starts for Poultress_44:
(1, 29921), (5, 30017), (6, 30056), (10, 30086), (14, 30182), (15, 30218), (Start: 68 @30482 has 44 MA's), (85, 30536), (92, 30572), (102, 30599), (120, 30644), (122, 30647), (132, 30692), (182, 30848), (191, 30884), (194, 30893), (195, 30896), (235, 31025), (239, 31040), (278, 31145), (293, 31187),

Gene: Prager_59 Start: 44509, Stop: 45369, Start Num: 71
Candidate Starts for Prager_59:
(43, 44437), (Start: 71 @44509 has 22 MA's), (84, 44554), (87, 44566), (90, 44584), (92, 44596), (102, 44620), (103, 44623), (153, 44776), (159, 44797), (162, 44806), (166, 44812), (191, 44902), (192, 44905), (195, 44914), (204, 44935), (236, 45046), (239, 45058), (244, 45076), (263, 45127), (266, 45136), (275, 45166), (276, 45169),

Gene: Predator_71 Start: 51699, Stop: 52709, Start Num: 59
Candidate Starts for Predator_71:

(Start: 59 @51699 has 22 MA's), (Start: 65 @51705 has 17 MA's), (85, 51753), (87, 51759), (122, 51861), (133, 51909), (159, 51996), (163, 52005), (166, 52011), (172, 52032), (191, 52101), (195, 52113), (205, 52140), (208, 52146), (213, 52161), (224, 52200), (234, 52239), (239, 52257), (244, 52275), (245, 52278), (265, 52350), (268, 52362), (329, 52683),

Gene: PsychoKiller_39 Start: 28608, Stop: 27790, Start Num: 46
Candidate Starts for PsychoKiller_39:
(Start: 46 @28608 has 60 MA's), (100, 28452), (101, 28449), (119, 28401), (127, 28389), (152, 28311), (164, 28278), (168, 28263), (169, 28260), (182, 28218), (192, 28179), (195, 28170), (216, 28113), (232, 28050), (244, 27999), (280, 27885), (293, 27846),

Gene: Puissant_69 Start: 52254, Stop: 53387, Start Num: 59
Candidate Starts for Puissant_69:
(Start: 59 @52254 has 22 MA's), (Start: 65 @52260 has 17 MA's), (85, 52308), (122, 52416), (133, 52464), (145, 52494), (159, 52551), (163, 52560), (166, 52566), (195, 52668), (208, 52701), (213, 52716), (224, 52755), (234, 52794), (239, 52812), (244, 52830), (245, 52833), (247, 52842), (268, 52908), (275, 52932), (328, 53289), (334, 53367),

Gene: Pywacket_64 Start: 46014, Stop: 47084, Start Num: 67
Candidate Starts for Pywacket_64:
(Start: 67 @46014 has 51 MA's), (108, 46146), (127, 46194), (153, 46275), (157, 46287), (159, 46296), (163, 46305), (201, 46428), (209, 46449), (218, 46476), (239, 46557), (244, 46575), (249, 46596), (272, 46674), (295, 46758), (322, 46923), (333, 47055),

Gene: Quasar_40 Start: 29156, Stop: 28338, Start Num: 46
Candidate Starts for Quasar_40:
(Start: 46 @29156 has 60 MA's), (100, 29000), (101, 28997), (119, 28949), (127, 28937), (152, 28859), (164, 28826), (168, 28811), (169, 28808), (182, 28766), (192, 28727), (195, 28718), (216, 28661), (232, 28598), (244, 28547), (280, 28433), (293, 28394),

Gene: RADical_41 Start: 28602, Stop: 27784, Start Num: 46
Candidate Starts for RADical_41:
(Start: 46 @28602 has 60 MA's), (100, 28446), (101, 28443), (119, 28395), (127, 28383), (152, 28305), (164, 28272), (168, 28257), (169, 28254), (182, 28212), (192, 28173), (195, 28164), (216, 28107), (232, 28044), (244, 27993), (280, 27879), (293, 27840),

Gene: RSchmailzl_40 Start: 28645, Stop: 27827, Start Num: 46
Candidate Starts for RSchmailzl_40:
(Start: 46 @28645 has 60 MA's), (100, 28489), (101, 28486), (119, 28438), (127, 28426), (152, 28348), (164, 28315), (168, 28300), (169, 28297), (182, 28255), (192, 28216), (195, 28207), (216, 28150), (232, 28087), (244, 28036), (280, 27922), (293, 27883),

Gene: Rachella_45 Start: 30170, Stop: 31018, Start Num: 68
Candidate Starts for Rachella_45:
(6, 29744), (10, 29774), (15, 29906), (Start: 68 @30170 has 44 MA's), (85, 30224), (92, 30260), (102, 30287), (120, 30332), (122, 30335), (132, 30380), (182, 30536), (191, 30572), (194, 30581), (195, 30584), (235, 30713), (239, 30728), (278, 30833), (293, 30875),

Gene: Ranch_67 Start: 44074, Stop: 45165, Start Num: 67
Candidate Starts for Ranch_67:
(Start: 67 @44074 has 51 MA's), (108, 44206), (127, 44254), (157, 44347), (159, 44356), (163, 44365), (201, 44488), (209, 44509), (218, 44536), (239, 44617), (244, 44635), (249, 44656), (272, 44734), (295, 44818), (322, 44983), (324, 44992), (333, 45136),

Gene: RanchParmCat_45 Start: 30427, Stop: 29621, Start Num: 46
Candidate Starts for RanchParmCat_45:
(Start: 45 @30430 has 3 MA's), (Start: 46 @30427 has 60 MA's), (87, 30325), (100, 30271), (127, 30214), (135, 30178), (157, 30121), (164, 30103), (168, 30088), (169, 30085), (183, 30040), (192, 30004), (195, 29995), (226, 29899), (232, 29875), (239, 29842), (266, 29776), (275, 29743),

Gene: Rasputia_136 Start: 84636, Stop: 85487, Start Num: 61
Candidate Starts for Rasputia_136:
(Start: 61 @84636 has 4 MA's), (Start: 66 @84642 has 11 MA's), (74, 84663), (81, 84687), (103, 84780), (118, 84822), (137, 84879), (152, 84930), (164, 84963), (166, 84969), (176, 85002), (196, 85068), (218, 85125), (220, 85134), (221, 85137), (228, 85155), (240, 85191), (243, 85200), (252, 85233), (262, 85272), (276, 85317), (288, 85359), (297, 85392), (311, 85458),

Gene: RazorC_67 Start: 44218, Stop: 45288, Start Num: 67
Candidate Starts for RazorC_67:
(Start: 67 @44218 has 51 MA's), (94, 44314), (108, 44350), (127, 44398), (157, 44491), (159, 44500), (163, 44509), (201, 44632), (209, 44653), (218, 44680), (239, 44761), (244, 44779), (249, 44800), (272, 44878), (295, 44962), (333, 45259),

Gene: RedBaron_43 Start: 28845, Stop: 28027, Start Num: 46
Candidate Starts for RedBaron_43:
(Start: 46 @28845 has 60 MA's), (100, 28689), (101, 28686), (119, 28638), (127, 28626), (152, 28548), (164, 28515), (168, 28500), (169, 28497), (182, 28455), (192, 28416), (195, 28407), (204, 28386), (216, 28350), (232, 28287), (244, 28236), (280, 28122), (293, 28083),

Gene: RedRaider_72 Start: 54080, Stop: 53301, Start Num: 50
Candidate Starts for RedRaider_72:
(Start: 50 @54080 has 13 MA's), (85, 53996), (138, 53831), (193, 53648), (215, 53588), (225, 53552), (239, 53498), (244, 53480), (258, 53447), (261, 53438), (287, 53363), (290, 53351),

Gene: Riduram_66 Start: 43793, Stop: 44863, Start Num: 67
Candidate Starts for Riduram_66:
(Start: 67 @43793 has 51 MA's), (94, 43889), (108, 43925), (127, 43973), (157, 44066), (159, 44075), (163, 44084), (201, 44207), (209, 44228), (218, 44255), (239, 44336), (244, 44354), (249, 44375), (272, 44453), (295, 44537), (333, 44834),

Gene: Rie18_45 Start: 29667, Stop: 30512, Start Num: 68
Candidate Starts for Rie18_45:
(8, 29262), (10, 29271), (Start: 68 @29667 has 44 MA's), (83, 29709), (85, 29721), (92, 29757), (102, 29784), (120, 29829), (122, 29832), (132, 29877), (182, 30033), (191, 30069), (194, 30078), (195, 30081), (235, 30210), (239, 30225), (278, 30330), (293, 30372),

Gene: RikSengupta_49 Start: 31227, Stop: 32069, Start Num: 68
Candidate Starts for RikSengupta_49:
(17, 30993), (Start: 68 @31227 has 44 MA's), (87, 31290), (114, 31374), (120, 31386), (122, 31389), (170, 31551), (182, 31587), (191, 31623), (214, 31686), (217, 31695), (235, 31764), (239, 31779), (293, 31926),

Gene: Rings_61 Start: 41260, Stop: 40520, Start Num: 80
Candidate Starts for Rings_61:
(Start: 80 @41260 has 13 MA's), (86, 41230), (91, 41206), (93, 41194), (94, 41191), (96, 41185), (109, 41143), (111, 41134), (116, 41119), (121, 41110), (150, 41011), (155, 40996), (188, 40876), (193,

40858), (207, 40819), (210, 40810), (234, 40729), (242, 40702), (268, 40657), (269, 40654), (275, 40633), (286, 40588), (290, 40573),

Gene: Riparian_72 Start: 52432, Stop: 53262, Start Num: 57
Candidate Starts for Riparian_72:
(Start: 57 @52432 has 10 MA's), (79, 52477), (86, 52507), (92, 52540), (102, 52564), (122, 52612), (128, 52633), (153, 52726), (163, 52756), (165, 52759), (169, 52771), (195, 52855), (211, 52885), (234, 52969), (236, 52975), (239, 52987), (244, 53005), (252, 53032), (253, 53035), (282, 53131), (292, 53152), (302, 53179),

Gene: Roberts_36 Start: 23603, Stop: 22809, Start Num: 59
Candidate Starts for Roberts_36:
(Start: 48 @23636 has 3 MA's), (Start: 59 @23603 has 22 MA's), (97, 23489), (107, 23456), (119, 23420), (138, 23360), (139, 23357), (147, 23333), (155, 23309), (160, 23288), (165, 23279), (175, 23246), (181, 23216), (191, 23180), (219, 23102), (247, 22997), (269, 22946), (275, 22925),

Gene: Rooney_64 Start: 46156, Stop: 45371, Start Num: 65
Candidate Starts for Rooney_64:
(Start: 65 @46156 has 17 MA's), (85, 46102), (88, 46093), (92, 46066), (102, 46042), (122, 45994), (154, 45889), (185, 45790), (186, 45784), (198, 45745), (205, 45724), (228, 45652), (239, 45607), (241, 45601), (245, 45583), (263, 45556), (286, 45484),

Gene: Rope_70 Start: 52588, Stop: 53418, Start Num: 57
Candidate Starts for Rope_70:
(Start: 57 @52588 has 10 MA's), (79, 52633), (86, 52663), (92, 52696), (102, 52720), (122, 52768), (128, 52789), (153, 52882), (163, 52912), (165, 52915), (169, 52927), (195, 53011), (211, 53041), (234, 53125), (236, 53131), (239, 53143), (244, 53161), (252, 53188), (253, 53191), (282, 53287), (292, 53308), (302, 53335),

Gene: Rota_64 Start: 45088, Stop: 46158, Start Num: 67
Candidate Starts for Rota_64:
(Start: 67 @45088 has 51 MA's), (108, 45220), (127, 45268), (157, 45361), (159, 45370), (163, 45379), (201, 45502), (209, 45523), (218, 45550), (239, 45631), (244, 45649), (249, 45670), (272, 45748), (295, 45832), (314, 45910), (322, 45997), (333, 46129),

Gene: Rukungu_69 Start: 46093, Stop: 47184, Start Num: 67
Candidate Starts for Rukungu_69:
(Start: 67 @46093 has 51 MA's), (108, 46225), (127, 46273), (153, 46354), (157, 46366), (159, 46375), (163, 46384), (201, 46507), (209, 46528), (218, 46555), (239, 46636), (244, 46654), (249, 46675), (272, 46753), (295, 46837), (322, 47002), (324, 47011), (333, 47155),

Gene: Rumi_68 Start: 43761, Stop: 44831, Start Num: 67
Candidate Starts for Rumi_68:
(Start: 67 @43761 has 51 MA's), (94, 43857), (108, 43893), (127, 43941), (157, 44034), (159, 44043), (163, 44052), (201, 44175), (209, 44196), (218, 44223), (239, 44304), (244, 44322), (249, 44343), (272, 44421), (295, 44505), (333, 44802),

Gene: Sadboi_68 Start: 45890, Stop: 46960, Start Num: 67
Candidate Starts for Sadboi_68:
(Start: 67 @45890 has 51 MA's), (108, 46022), (127, 46070), (157, 46163), (159, 46172), (163, 46181), (201, 46304), (209, 46325), (218, 46352), (239, 46433), (244, 46451), (249, 46472), (272, 46550), (295, 46634), (322, 46799), (333, 46931),

Gene: SafetyGuy_45 Start: 30150, Stop: 30998, Start Num: 68
Candidate Starts for SafetyGuy_45:
(6, 29724), (10, 29754), (15, 29886), (Start: 68 @30150 has 44 MA's), (85, 30204), (92, 30240), (102, 30267), (120, 30312), (122, 30315), (132, 30360), (182, 30516), (191, 30552), (194, 30561), (195, 30564), (235, 30693), (239, 30708), (278, 30813), (293, 30855),

Gene: Salvus_43 Start: 31234, Stop: 30389, Start Num: 35
Candidate Starts for Salvus_43:
(Start: 35 @31234 has 2 MA's), (47, 31210), (82, 31117), (95, 31057), (127, 30979), (132, 30952), (164, 30868), (195, 30760), (205, 30733), (233, 30631), (243, 30595), (249, 30568), (274, 30505), (294, 30430), (298, 30421),

Gene: Sampudon_67 Start: 46242, Stop: 47312, Start Num: 67
Candidate Starts for Sampudon_67:
(Start: 67 @46242 has 51 MA's), (108, 46374), (127, 46422), (153, 46503), (157, 46515), (159, 46524), (163, 46533), (201, 46656), (209, 46677), (218, 46704), (239, 46785), (244, 46803), (249, 46824), (272, 46902), (295, 46986), (314, 47064), (322, 47151), (333, 47283),

Gene: SassyC_69 Start: 47080, Stop: 46298, Start Num: 65
Candidate Starts for SassyC_69:
(25, 47188), (Start: 48 @47116 has 3 MA's), (Start: 65 @47080 has 17 MA's), (78, 47053), (85, 47026), (88, 47017), (92, 46990), (102, 46966), (122, 46918), (185, 46714), (186, 46708), (198, 46669), (205, 46648), (215, 46621), (228, 46576), (239, 46531), (241, 46525), (245, 46507), (269, 46471),

Gene: Scuba_74 Start: 51339, Stop: 50548, Start Num: 50
Candidate Starts for Scuba_74:
(Start: 50 @51339 has 13 MA's), (85, 51243), (159, 51009), (193, 50898), (197, 50889), (208, 50859), (215, 50838), (239, 50748), (244, 50730), (249, 50715), (275, 50655),

Gene: Send513_70 Start: 52966, Stop: 53796, Start Num: 57
Candidate Starts for Send513_70:
(Start: 57 @52966 has 10 MA's), (79, 53011), (86, 53041), (92, 53074), (102, 53098), (122, 53146), (128, 53167), (153, 53260), (163, 53290), (165, 53293), (195, 53389), (211, 53419), (234, 53503), (236, 53509), (239, 53521), (244, 53539), (252, 53566), (253, 53569), (282, 53665), (292, 53686), (302, 53713),

Gene: ShakeNBake_64 Start: 46028, Stop: 45246, Start Num: 65
Candidate Starts for ShakeNBake_64:
(Start: 65 @46028 has 17 MA's), (85, 45974), (88, 45965), (92, 45938), (102, 45914), (122, 45866), (154, 45761), (185, 45662), (186, 45656), (198, 45617), (205, 45596), (228, 45524), (239, 45479), (241, 45473), (245, 45455), (269, 45419), (286, 45356),

Gene: SheckWes_44 Start: 30075, Stop: 29269, Start Num: 46
Candidate Starts for SheckWes_44:
(Start: 46 @30075 has 60 MA's), (87, 29967), (100, 29913), (127, 29850), (164, 29739), (177, 29697), (182, 29679), (183, 29676), (192, 29640), (195, 29631), (216, 29574), (229, 29526), (230, 29523), (239, 29481), (275, 29388), (293, 29319),

Gene: Shrew_85 Start: 51163, Stop: 51948, Start Num: 53
Candidate Starts for Shrew_85:
(Start: 53 @51163 has 4 MA's), (97, 51289), (99, 51295), (115, 51340), (152, 51439), (159, 51463), (164, 51472), (169, 51490), (192, 51571), (195, 51580), (205, 51607), (216, 51637), (231, 51691), (294, 51895), (307, 51931),

Gene: Shynx_53 Start: 37701, Stop: 38714, Start Num: 32
Candidate Starts for Shynx_53:
(Start: 32 @37701 has 12 MA's), (63, 37785), (Start: 71 @37800 has 22 MA's), (96, 37902), (104, 37929), (106, 37935), (135, 38034), (158, 38118), (166, 38139), (176, 38172), (191, 38238), (202, 38262), (211, 38286), (239, 38394), (245, 38418), (248, 38430), (250, 38436), (276, 38526), (291, 38592), (300, 38616), (306, 38634),

Gene: Sienna_56 Start: 41882, Stop: 42811, Start Num: 66
Candidate Starts for Sienna_56:
(Start: 66 @41882 has 11 MA's), (86, 41939), (92, 41972), (146, 42122), (149, 42131), (153, 42155), (159, 42176), (166, 42191), (169, 42203), (173, 42215), (185, 42254), (188, 42269), (199, 42302), (233, 42413), (234, 42419), (239, 42437), (246, 42461), (247, 42467), (256, 42497), (263, 42521), (289, 42614), (320, 42782),

Gene: SilentWarrior_45 Start: 29382, Stop: 30230, Start Num: 68
Candidate Starts for SilentWarrior_45:
(1, 28821), (5, 28917), (6, 28956), (10, 28986), (15, 29118), (Start: 68 @29382 has 44 MA's), (85, 29436), (92, 29472), (102, 29499), (120, 29544), (122, 29547), (132, 29592), (182, 29748), (191, 29784), (194, 29793), (195, 29796), (235, 29925), (239, 29940), (278, 30045), (293, 30087),

Gene: SirHarley_61 Start: 44932, Stop: 45792, Start Num: 71
Candidate Starts for SirHarley_61:
(43, 44860), (Start: 71 @44932 has 22 MA's), (84, 44977), (87, 44989), (90, 45007), (92, 45019), (102, 45043), (103, 45046), (153, 45199), (159, 45220), (162, 45229), (166, 45235), (191, 45325), (192, 45328), (195, 45337), (204, 45358), (236, 45469), (239, 45481), (244, 45499), (263, 45550), (266, 45559), (275, 45589), (276, 45592),

Gene: SketchMex_40 Start: 28753, Stop: 27935, Start Num: 46
Candidate Starts for SketchMex_40:
(Start: 40 @28771 has 4 MA's), (Start: 46 @28753 has 60 MA's), (Start: 48 @28747 has 3 MA's), (100, 28597), (101, 28594), (127, 28534), (152, 28456), (164, 28423), (169, 28405), (182, 28363), (183, 28360), (192, 28324), (195, 28315), (216, 28258), (226, 28219), (236, 28174), (239, 28162), (243, 28150), (244, 28144), (265, 28096), (293, 27991),

Gene: Skysand_67 Start: 52239, Stop: 51460, Start Num: 50
Candidate Starts for Skysand_67:
(Start: 50 @52239 has 13 MA's), (85, 52155), (107, 52080), (193, 51807), (215, 51747), (225, 51711), (239, 51657), (244, 51639), (258, 51606), (261, 51597), (287, 51522), (290, 51510),

Gene: Snakehole_45 Start: 29347, Stop: 30192, Start Num: 68
Candidate Starts for Snakehole_45:
(6, 28921), (7, 28927), (10, 28951), (15, 29083), (Start: 68 @29347 has 44 MA's), (85, 29401), (92, 29437), (102, 29464), (120, 29509), (122, 29512), (132, 29557), (182, 29713), (191, 29749), (194, 29758), (195, 29761), (235, 29890), (239, 29905), (278, 30010), (293, 30052),

Gene: Socotra_40 Start: 28607, Stop: 27789, Start Num: 46
Candidate Starts for Socotra_40:
(Start: 46 @28607 has 60 MA's), (100, 28451), (101, 28448), (119, 28400), (127, 28388), (152, 28310), (164, 28277), (168, 28262), (169, 28259), (182, 28217), (192, 28178), (195, 28169), (204, 28148), (216, 28112), (232, 28049), (244, 27998), (280, 27884), (293, 27845),

Gene: Sopespian_39 Start: 28609, Stop: 27791, Start Num: 46

Candidate Starts for Sopespian_39:
(Start: 46 @28609 has 60 MA's), (100, 28453), (101, 28450), (119, 28402), (127, 28390), (152, 28312), (164, 28279), (168, 28264), (169, 28261), (182, 28219), (192, 28180), (195, 28171), (216, 28114), (232, 28051), (244, 28000), (280, 27886), (293, 27847),

Gene: SorJuana_60 Start: 40819, Stop: 40079, Start Num: 80
Candidate Starts for SorJuana_60:
(Start: 80 @40819 has 13 MA's), (86, 40789), (91, 40765), (93, 40753), (94, 40750), (96, 40744), (109, 40702), (111, 40693), (116, 40678), (121, 40669), (150, 40570), (155, 40555), (188, 40435), (193, 40417), (207, 40378), (210, 40369), (234, 40288), (242, 40261), (268, 40216), (269, 40213), (275, 40192), (286, 40147), (290, 40132),

Gene: Sparcetus_49 Start: 31104, Stop: 31946, Start Num: 68
Candidate Starts for Sparcetus_49:
(Start: 68 @31104 has 44 MA's), (87, 31167), (114, 31251), (120, 31263), (122, 31266), (170, 31428), (182, 31464), (191, 31500), (214, 31563), (217, 31572), (235, 31641), (239, 31656), (293, 31803),

Gene: StarStruck_66 Start: 51894, Stop: 51040, Start Num: 66
Candidate Starts for StarStruck_66:
(Start: 66 @51894 has 11 MA's), (152, 51615), (169, 51564), (193, 51474), (209, 51432), (215, 51414), (225, 51378), (233, 51348), (239, 51324), (244, 51306),

Gene: Starburst_41 Start: 28602, Stop: 27784, Start Num: 46
Candidate Starts for Starburst_41:
(Start: 46 @28602 has 60 MA's), (100, 28446), (101, 28443), (119, 28395), (127, 28383), (152, 28305), (164, 28272), (168, 28257), (169, 28254), (182, 28212), (192, 28173), (195, 28164), (216, 28107), (232, 28044), (244, 27993), (280, 27879), (283, 27876), (293, 27840),

Gene: SteamedHams_41 Start: 28529, Stop: 27711, Start Num: 46
Candidate Starts for SteamedHams_41:
(Start: 40 @28547 has 4 MA's), (Start: 46 @28529 has 60 MA's), (100, 28373), (101, 28370), (119, 28322), (127, 28310), (152, 28232), (164, 28199), (169, 28181), (177, 28157), (182, 28139), (183, 28136), (192, 28100), (195, 28091), (216, 28034), (226, 27995), (243, 27926), (244, 27920), (265, 27872), (293, 27767),

Gene: Stickynote_54 Start: 45345, Stop: 44581, Start Num: 65
Candidate Starts for Stickynote_54:
(Start: 65 @45345 has 17 MA's), (132, 45126), (225, 44844), (239, 44790), (262, 44745), (289, 44661),

Gene: Stormer_67 Start: 43765, Stop: 44835, Start Num: 67
Candidate Starts for Stormer_67:
(Start: 67 @43765 has 51 MA's), (94, 43861), (108, 43897), (127, 43945), (157, 44038), (159, 44047), (163, 44056), (201, 44179), (209, 44200), (218, 44227), (239, 44308), (244, 44326), (249, 44347), (272, 44425), (295, 44509), (333, 44806),

Gene: Studio_38 Start: 24966, Stop: 24175, Start Num: 59
Candidate Starts for Studio_38:
(30, 25056), (34, 25041), (38, 25035), (Start: 48 @24999 has 3 MA's), (Start: 59 @24966 has 22 MA's), (97, 24852), (102, 24834), (107, 24819), (119, 24783), (138, 24723), (139, 24720), (147, 24696), (165, 24642), (175, 24609), (181, 24579), (191, 24543), (219, 24465), (244, 24375), (247, 24360), (269, 24309), (275, 24288), (294, 24216),

Gene: Stuff_53 Start: 37765, Stop: 38778, Start Num: 32

Candidate Starts for Stuff_53:
(Start: 32 @37765 has 12 MA's), (63, 37849), (Start: 71 @37864 has 22 MA's), (96, 37966), (104, 37993), (106, 37999), (135, 38098), (158, 38182), (166, 38203), (176, 38236), (191, 38302), (202, 38326), (211, 38350), (239, 38458), (245, 38482), (248, 38494), (250, 38500), (276, 38590), (291, 38656), (300, 38680), (306, 38698),

Gene: Sukkupi_66 Start: 50275, Stop: 49478, Start Num: 58
Candidate Starts for Sukkupi_66:
(26, 50374), (Start: 48 @50302 has 3 MA's), (Start: 58 @50275 has 29 MA's), (85, 50200), (142, 50026), (183, 49894), (190, 49864), (193, 49855), (197, 49846), (205, 49819), (215, 49792), (228, 49747), (236, 49714), (239, 49702), (244, 49684), (275, 49603), (299, 49525),

Gene: SummitAcademy_41 Start: 30111, Stop: 29305, Start Num: 46
Candidate Starts for SummitAcademy_41:
(Start: 46 @30111 has 60 MA's), (Start: 48 @30105 has 3 MA's), (87, 30003), (100, 29949), (127, 29886), (164, 29775), (168, 29760), (182, 29715), (183, 29712), (192, 29676), (195, 29667), (216, 29610), (229, 29562), (230, 29559), (239, 29517), (275, 29424), (293, 29355),

Gene: SuperSonics_84 Start: 54521, Stop: 55606, Start Num: 67
Candidate Starts for SuperSonics_84:
(Start: 67 @54521 has 51 MA's), (86, 54578), (87, 54581), (92, 54611), (114, 54668), (122, 54683), (159, 54812), (168, 54836), (183, 54890), (189, 54914), (233, 55058), (234, 55064), (236, 55070), (238, 55079), (239, 55082), (244, 55100), (251, 55127), (268, 55187), (278, 55235), (295, 55283), (301, 55301), (313, 55361), (316, 55382), (326, 55517), (327, 55532),

Gene: SuperSulley_67 Start: 52253, Stop: 51390, Start Num: 58
Candidate Starts for SuperSulley_67:
(29, 52331), (Start: 58 @52253 has 29 MA's), (110, 52091), (152, 51965), (193, 51824), (205, 51791), (215, 51764), (217, 51758), (233, 51698), (239, 51674), (244, 51656), (267, 51602), (277, 51572), (289, 51527),

Gene: SuperheroCarly_60 Start: 44606, Stop: 45466, Start Num: 71
Candidate Starts for SuperheroCarly_60:
(43, 44534), (Start: 71 @44606 has 22 MA's), (84, 44651), (87, 44663), (90, 44681), (92, 44693), (102, 44717), (103, 44720), (153, 44873), (159, 44894), (162, 44903), (166, 44909), (191, 44999), (192, 45002), (195, 45011), (204, 45032), (236, 45143), (239, 45155), (244, 45173), (263, 45224), (266, 45233), (275, 45263), (276, 45266),

Gene: Survivors_38 Start: 28560, Stop: 27748, Start Num: 46
Candidate Starts for Survivors_38:
(24, 28632), (Start: 46 @28560 has 60 MA's), (127, 28344), (135, 28308), (152, 28266), (157, 28251), (164, 28233), (168, 28218), (169, 28215), (182, 28173), (195, 28125), (217, 28065), (226, 28032), (238, 27978), (243, 27963), (280, 27846),

Gene: Suzy_56 Start: 43075, Stop: 44001, Start Num: 66
Candidate Starts for Suzy_56:
(Start: 66 @43075 has 11 MA's), (86, 43132), (92, 43165), (146, 43315), (149, 43324), (159, 43369), (166, 43384), (169, 43396), (173, 43408), (185, 43447), (188, 43462), (199, 43495), (233, 43606), (234, 43612), (239, 43630), (246, 43654), (247, 43660), (254, 43684), (256, 43690), (263, 43714), (280, 43783), (289, 43807), (320, 43972),

Gene: SweatNTears_41 Start: 28505, Stop: 27687, Start Num: 46
Candidate Starts for SweatNTears_41:

(Start: 46 @28505 has 60 MA's), (100, 28349), (101, 28346), (119, 28298), (127, 28286), (152, 28208), (164, 28175), (168, 28160), (169, 28157), (177, 28133), (182, 28115), (192, 28076), (195, 28067), (216, 28010), (232, 27947), (244, 27896), (280, 27782), (293, 27743),

Gene: TMaxx_37 Start: 24246, Stop: 23455, Start Num: 59
Candidate Starts for TMaxx_37:
(36, 24318), (44, 24297), (Start: 48 @24279 has 3 MA's), (Start: 59 @24246 has 22 MA's), (77, 24210), (97, 24126), (102, 24108), (107, 24093), (138, 23997), (147, 23970), (165, 23916), (175, 23883), (181, 23853), (191, 23817), (219, 23739), (245, 23643), (269, 23583), (275, 23562),

Gene: Tarnish_42 Start: 30621, Stop: 29815, Start Num: 46
Candidate Starts for Tarnish_42:
(Start: 46 @30621 has 60 MA's), (Start: 48 @30615 has 3 MA's), (87, 30513), (100, 30459), (127, 30396), (135, 30360), (164, 30285), (168, 30270), (182, 30225), (183, 30222), (192, 30186), (195, 30177), (216, 30120), (229, 30072), (230, 30069), (239, 30027), (275, 29934), (293, 29865),

Gene: Tedro_45 Start: 29601, Stop: 30446, Start Num: 68
Candidate Starts for Tedro_45:
(6, 29175), (10, 29205), (14, 29301), (15, 29337), (Start: 68 @29601 has 44 MA's), (85, 29655), (92, 29691), (102, 29718), (120, 29763), (122, 29766), (132, 29811), (182, 29967), (191, 30003), (194, 30012), (195, 30015), (235, 30144), (239, 30159), (278, 30264), (293, 30306),

Gene: Terapin_57 Start: 41806, Stop: 42735, Start Num: 66
Candidate Starts for Terapin_57:
(Start: 66 @41806 has 11 MA's), (86, 41863), (92, 41896), (146, 42046), (149, 42055), (153, 42079), (159, 42100), (166, 42115), (169, 42127), (173, 42139), (185, 42178), (188, 42193), (199, 42226), (233, 42337), (234, 42343), (239, 42361), (246, 42385), (247, 42391), (256, 42421), (263, 42445), (289, 42538), (320, 42706),

Gene: Thoth_59 Start: 44488, Stop: 45348, Start Num: 71
Candidate Starts for Thoth_59:
(43, 44416), (Start: 71 @44488 has 22 MA's), (84, 44533), (87, 44545), (90, 44563), (92, 44575), (102, 44599), (103, 44602), (153, 44755), (159, 44776), (162, 44785), (166, 44791), (191, 44881), (192, 44884), (195, 44893), (204, 44914), (236, 45025), (239, 45037), (244, 45055), (263, 45106), (266, 45115), (275, 45145), (276, 45148),

Gene: Thumb_73 Start: 52573, Stop: 53652, Start Num: 59
Candidate Starts for Thumb_73:
(Start: 59 @52573 has 22 MA's), (Start: 65 @52579 has 17 MA's), (85, 52627), (122, 52735), (133, 52783), (145, 52813), (159, 52870), (163, 52879), (166, 52885), (195, 52987), (208, 53020), (213, 53035), (224, 53074), (234, 53113), (239, 53131), (244, 53149), (245, 53152), (247, 53161), (268, 53227), (275, 53251), (319, 53443), (330, 53590), (331, 53593), (334, 53632), (335, 53641),

Gene: Thunderclap_60 Start: 41241, Stop: 40501, Start Num: 80
Candidate Starts for Thunderclap_60:
(Start: 80 @41241 has 13 MA's), (86, 41211), (91, 41187), (93, 41175), (94, 41172), (96, 41166), (109, 41124), (111, 41115), (116, 41100), (121, 41091), (150, 40992), (155, 40977), (188, 40857), (193, 40839), (207, 40800), (210, 40791), (234, 40710), (242, 40683), (268, 40638), (269, 40635), (275, 40614), (286, 40569), (290, 40554),

Gene: Tiggy93_45 Start: 30173, Stop: 31021, Start Num: 68
Candidate Starts for Tiggy93_45:

(6, 29747), (10, 29777), (15, 29909), (Start: 68 @30173 has 44 MA's), (85, 30227), (92, 30263), (102, 30290), (120, 30335), (122, 30338), (132, 30383), (182, 30539), (191, 30575), (194, 30584), (195, 30587), (235, 30716), (239, 30731), (278, 30836), (293, 30878),

Gene: Tillicus_62 Start: 44587, Stop: 45672, Start Num: 67
Candidate Starts for Tillicus_62:
(Start: 67 @44587 has 51 MA's), (90, 44668), (92, 44680), (102, 44704), (108, 44719), (127, 44767), (157, 44860), (159, 44869), (163, 44878), (201, 45001), (209, 45022), (218, 45049), (239, 45130), (244, 45148), (249, 45169), (255, 45190), (272, 45247), (295, 45331),

Gene: TinyMiny_49 Start: 31125, Stop: 31967, Start Num: 68
Candidate Starts for TinyMiny_49:
(17, 30891), (Start: 68 @31125 has 44 MA's), (87, 31188), (114, 31272), (120, 31284), (122, 31287), (170, 31449), (182, 31485), (191, 31521), (214, 31584), (217, 31593), (235, 31662), (239, 31677), (293, 31824),

Gene: Tolls_41 Start: 28634, Stop: 27816, Start Num: 46
Candidate Starts for Tolls_41:
(Start: 40 @28652 has 4 MA's), (Start: 46 @28634 has 60 MA's), (Start: 48 @28628 has 3 MA's), (100, 28478), (101, 28475), (119, 28427), (127, 28415), (152, 28337), (164, 28304), (169, 28286), (182, 28244), (183, 28241), (192, 28205), (195, 28196), (216, 28139), (226, 28100), (243, 28031), (244, 28025), (265, 27977), (293, 27872),

Gene: Tongui_45 Start: 29721, Stop: 30566, Start Num: 68
Candidate Starts for Tongui_45:
(8, 29316), (10, 29325), (12, 29382), (Start: 68 @29721 has 44 MA's), (85, 29775), (92, 29811), (102, 29838), (120, 29883), (122, 29886), (132, 29931), (182, 30087), (191, 30123), (194, 30132), (195, 30135), (235, 30264), (239, 30279), (245, 30303), (278, 30384), (293, 30426),

Gene: Tracker_65 Start: 50870, Stop: 50052, Start Num: 58
Candidate Starts for Tracker_65:
(Start: 48 @50897 has 3 MA's), (Start: 58 @50870 has 29 MA's), (85, 50798), (152, 50576), (193, 50435), (197, 50426), (215, 50375), (225, 50339), (239, 50285), (244, 50267), (249, 50252),

Gene: TripleC_37 Start: 26597, Stop: 25806, Start Num: 59
Candidate Starts for TripleC_37:
(36, 26669), (44, 26648), (Start: 48 @26630 has 3 MA's), (Start: 59 @26597 has 22 MA's), (77, 26561), (97, 26477), (102, 26459), (107, 26444), (138, 26348), (147, 26321), (165, 26267), (175, 26234), (181, 26204), (191, 26168), (219, 26090), (269, 25934), (275, 25913),

Gene: Triscuit_80 Start: 49756, Stop: 50565, Start Num: 53
Candidate Starts for Triscuit_80:
(Start: 53 @49756 has 4 MA's), (104, 49903), (115, 49933), (127, 49954), (164, 50065), (169, 50083), (182, 50125), (183, 50128), (192, 50164), (216, 50230), (243, 50335), (244, 50341), (249, 50362), (303, 50521),

Gene: Troje_42 Start: 29091, Stop: 28273, Start Num: 46
Candidate Starts for Troje_42:
(Start: 40 @29109 has 4 MA's), (Start: 46 @29091 has 60 MA's), (Start: 48 @29085 has 3 MA's), (100, 28935), (101, 28932), (127, 28872), (152, 28794), (164, 28761), (169, 28743), (182, 28701), (183, 28698), (192, 28662), (195, 28653), (216, 28596), (226, 28557), (236, 28512), (239, 28500), (243, 28488), (244, 28482), (265, 28434), (293, 28329),

Gene: Troll4_59 Start: 44619, Stop: 45479, Start Num: 71
Candidate Starts for Troll4_59:
(43, 44547), (Start: 71 @44619 has 22 MA's), (84, 44664), (87, 44676), (90, 44694), (92, 44706), (102, 44730), (103, 44733), (153, 44886), (159, 44907), (162, 44916), (166, 44922), (191, 45012), (192, 45015), (195, 45024), (204, 45045), (236, 45156), (239, 45168), (244, 45186), (263, 45237), (266, 45246), (275, 45276), (276, 45279),

Gene: Turuncu_68 Start: 51816, Stop: 51037, Start Num: 50
Candidate Starts for Turuncu_68:
(Start: 50 @51816 has 13 MA's), (85, 51729), (190, 51390), (193, 51381), (205, 51348), (215, 51321), (225, 51291), (239, 51237), (241, 51231), (244, 51219), (245, 51213), (261, 51177), (277, 51141),

Gene: Typhonomachy_38 Start: 28227, Stop: 27409, Start Num: 46
Candidate Starts for Typhonomachy_38:
(Start: 46 @28227 has 60 MA's), (100, 28071), (101, 28068), (119, 28020), (127, 28008), (152, 27930), (164, 27897), (168, 27882), (169, 27879), (182, 27837), (192, 27798), (195, 27789), (204, 27768), (216, 27732), (232, 27669), (244, 27618), (280, 27504), (293, 27465),

Gene: UNTPL_55 Start: 37799, Stop: 38812, Start Num: 32
Candidate Starts for UNTPL_55:
(Start: 32 @37799 has 12 MA's), (41, 37823), (63, 37883), (Start: 71 @37898 has 22 MA's), (96, 38000), (104, 38027), (106, 38033), (135, 38132), (158, 38216), (166, 38237), (176, 38270), (191, 38336), (202, 38360), (211, 38384), (239, 38492), (245, 38516), (248, 38528), (250, 38534), (276, 38624), (291, 38690), (300, 38714), (306, 38732),

Gene: Vine_44 Start: 30838, Stop: 30032, Start Num: 46
Candidate Starts for Vine_44:
(Start: 46 @30838 has 60 MA's), (Start: 48 @30832 has 3 MA's), (87, 30730), (100, 30676), (127, 30613), (135, 30577), (164, 30502), (168, 30487), (182, 30442), (183, 30439), (192, 30403), (195, 30394), (216, 30337), (229, 30289), (230, 30286), (239, 30244), (275, 30151), (293, 30082),

Gene: Virizion_69 Start: 46376, Stop: 45591, Start Num: 65
Candidate Starts for Virizion_69:
(Start: 65 @46376 has 17 MA's), (85, 46322), (88, 46313), (92, 46286), (102, 46262), (122, 46214), (185, 46010), (186, 46004), (198, 45965), (205, 45944), (228, 45872), (239, 45827), (241, 45821), (245, 45803), (263, 45776), (286, 45704),

Gene: Visconti_60 Start: 44499, Stop: 45359, Start Num: 71
Candidate Starts for Visconti_60:
(43, 44427), (Start: 71 @44499 has 22 MA's), (84, 44544), (87, 44556), (90, 44574), (92, 44586), (102, 44610), (103, 44613), (153, 44766), (159, 44787), (162, 44796), (166, 44802), (191, 44892), (192, 44895), (195, 44904), (204, 44925), (236, 45036), (239, 45048), (244, 45066), (263, 45117), (266, 45126), (275, 45156), (276, 45159),

Gene: WaldoWhy_61 Start: 44552, Stop: 45412, Start Num: 71
Candidate Starts for WaldoWhy_61:
(43, 44480), (Start: 71 @44552 has 22 MA's), (84, 44597), (87, 44609), (90, 44627), (92, 44639), (102, 44663), (103, 44666), (153, 44819), (159, 44840), (162, 44849), (166, 44855), (191, 44945), (192, 44948), (195, 44957), (204, 44978), (236, 45089), (239, 45101), (244, 45119), (263, 45170), (266, 45179), (275, 45209), (276, 45212),

Gene: Wallaby_40 Start: 28661, Stop: 27849, Start Num: 46
Candidate Starts for Wallaby_40:

(24, 28733), (Start: 46 @28661 has 60 MA's), (127, 28445), (135, 28409), (152, 28367), (157, 28352), (164, 28334), (168, 28319), (169, 28316), (182, 28274), (195, 28226), (217, 28166), (226, 28133), (233, 28100), (238, 28079), (243, 28064), (280, 27947),

Gene: Weiss13_70 Start: 52669, Stop: 53499, Start Num: 57
Candidate Starts for Weiss13_70:
(Start: 57 @52669 has 10 MA's), (79, 52714), (86, 52744), (92, 52777), (102, 52801), (122, 52849), (128, 52870), (153, 52963), (163, 52993), (165, 52996), (169, 53008), (195, 53092), (211, 53122), (234, 53206), (236, 53212), (239, 53224), (244, 53242), (252, 53269), (253, 53272), (282, 53368), (292, 53389), (302, 53416),

Gene: Wentworth_64 Start: 46130, Stop: 45360, Start Num: 65
Candidate Starts for Wentworth_64:
(Start: 65 @46130 has 17 MA's), (83, 46088), (85, 46076), (86, 46073), (92, 46040), (122, 45968), (152, 45869), (185, 45764), (186, 45758), (198, 45719), (205, 45698), (223, 45641), (239, 45581), (241, 45575), (263, 45530), (269, 45521),

Gene: Wheezy_65 Start: 51084, Stop: 50263, Start Num: 58
Candidate Starts for Wheezy_65:
(Start: 48 @51111 has 3 MA's), (Start: 58 @51084 has 29 MA's), (85, 51012), (152, 50790), (193, 50649), (197, 50640), (215, 50589), (225, 50553), (239, 50499), (244, 50481), (249, 50466),

Gene: WhoseManz_65 Start: 48102, Stop: 47305, Start Num: 58
Candidate Starts for WhoseManz_65:
(Start: 58 @48102 has 29 MA's), (85, 48027), (183, 47721), (190, 47691), (193, 47682), (197, 47673), (205, 47646), (215, 47619), (228, 47574), (236, 47541), (239, 47529), (244, 47511), (275, 47430), (299, 47352),

Gene: Wilkos_66 Start: 46285, Stop: 45515, Start Num: 65
Candidate Starts for Wilkos_66:
(Start: 65 @46285 has 17 MA's), (78, 46258), (83, 46243), (85, 46231), (86, 46228), (92, 46195), (102, 46171), (103, 46168), (114, 46138), (152, 46024), (185, 45919), (186, 45913), (198, 45874), (205, 45853), (223, 45796), (239, 45736), (241, 45730), (269, 45676),

Gene: WinnieLou_46 Start: 29716, Stop: 30564, Start Num: 68
Candidate Starts for WinnieLou_46:
(7, 29296), (8, 29311), (9, 29314), (10, 29320), (Start: 68 @29716 has 44 MA's), (83, 29758), (85, 29770), (92, 29806), (102, 29833), (120, 29878), (122, 29881), (132, 29926), (182, 30082), (191, 30118), (194, 30127), (195, 30130), (208, 30163), (235, 30259), (239, 30274), (278, 30379), (293, 30421),

Gene: Wojtek_63 Start: 44323, Stop: 45414, Start Num: 67
Candidate Starts for Wojtek_63:
(Start: 67 @44323 has 51 MA's), (90, 44404), (92, 44416), (108, 44455), (127, 44503), (157, 44596), (159, 44605), (163, 44614), (201, 44737), (209, 44758), (218, 44785), (239, 44866), (244, 44884), (249, 44905), (272, 44983), (295, 45067), (314, 45145), (322, 45232),

Gene: Wolfwood_38 Start: 28632, Stop: 27820, Start Num: 46
Candidate Starts for Wolfwood_38:
(24, 28704), (Start: 46 @28632 has 60 MA's), (127, 28416), (135, 28380), (152, 28338), (157, 28323), (164, 28305), (168, 28290), (169, 28287), (182, 28245), (195, 28197), (217, 28137), (226, 28104), (238, 28050), (243, 28035), (280, 27918),

Gene: Wollypog_48 Start: 34784, Stop: 35608, Start Num: 69
Candidate Starts for Wollypog_48:
(Start: 69 @34784 has 1 MA's), (84, 34832), (85, 34838), (86, 34841), (102, 34898), (165, 35081), (166, 35084), (190, 35174), (200, 35201), (208, 35222), (237, 35324), (239, 35333),

Gene: Xenia2_66 Start: 44090, Stop: 45202, Start Num: 67
Candidate Starts for Xenia2_66:
(Start: 67 @44090 has 51 MA's), (92, 44186), (108, 44225), (127, 44273), (153, 44354), (157, 44366), (159, 44375), (163, 44384), (209, 44528), (239, 44636), (244, 44654), (249, 44675), (256, 44699), (257, 44702), (272, 44753), (310, 44894), (333, 45170),

Gene: Yakult_42 Start: 29373, Stop: 28570, Start Num: 46
Candidate Starts for Yakult_42:
(20, 29496), (22, 29466), (33, 29409), (Start: 45 @29376 has 3 MA's), (Start: 46 @29373 has 60 MA's), (87, 29274), (127, 29163), (135, 29127), (157, 29070), (164, 29052), (168, 29037), (169, 29034), (183, 28989), (192, 28953), (195, 28944), (232, 28824), (239, 28791), (243, 28779), (244, 28773), (249, 28752),

Gene: Yappy_86 Start: 44513, Stop: 43758, Start Num: 62
Candidate Starts for Yappy_86:
(49, 44546), (Start: 62 @44513 has 1 MA's), (85, 44447), (86, 44444), (92, 44411), (98, 44387), (104, 44369), (117, 44333), (167, 44168), (178, 44141), (179, 44138), (195, 44078), (197, 44075), (199, 44069), (203, 44060), (228, 43979), (234, 43958), (266, 43883), (276, 43847), (290, 43790),

Gene: Yara_60 Start: 44990, Stop: 44223, Start Num: 65
Candidate Starts for Yara_60:
(Start: 65 @44990 has 17 MA's), (78, 44963), (85, 44936), (88, 44927), (92, 44900), (198, 44579), (199, 44576), (205, 44558), (215, 44531), (241, 44435), (293, 44297),

Gene: Yarn_37 Start: 28394, Stop: 27576, Start Num: 46
Candidate Starts for Yarn_37:
(Start: 40 @28412 has 4 MA's), (Start: 46 @28394 has 60 MA's), (Start: 48 @28388 has 3 MA's), (100, 28238), (101, 28235), (119, 28187), (127, 28175), (152, 28097), (164, 28064), (169, 28046), (182, 28004), (183, 28001), (192, 27965), (195, 27956), (216, 27899), (226, 27860), (243, 27791), (244, 27785), (265, 27737), (293, 27632),

Gene: Yeezus_60 Start: 41211, Stop: 40471, Start Num: 80
Candidate Starts for Yeezus_60:
(Start: 80 @41211 has 13 MA's), (86, 41181), (91, 41157), (93, 41145), (94, 41142), (96, 41136), (109, 41094), (111, 41085), (116, 41070), (121, 41061), (150, 40962), (155, 40947), (188, 40827), (193, 40809), (207, 40770), (210, 40761), (234, 40680), (242, 40653), (268, 40608), (269, 40605), (275, 40584), (286, 40539), (290, 40524),

Gene: Yelo_69 Start: 53048, Stop: 53878, Start Num: 57
Candidate Starts for Yelo_69:
(Start: 57 @53048 has 10 MA's), (79, 53093), (86, 53123), (92, 53156), (102, 53180), (122, 53228), (128, 53249), (153, 53342), (163, 53372), (165, 53375), (169, 53387), (195, 53471), (211, 53501), (234, 53585), (236, 53591), (239, 53603), (244, 53621), (252, 53648), (253, 53651), (282, 53747), (292, 53768), (302, 53795),

Gene: Yikes_69 Start: 46336, Stop: 47406, Start Num: 67
Candidate Starts for Yikes_69:

(Start: 67 @46336 has 51 MA's), (108, 46468), (127, 46516), (157, 46609), (159, 46618), (163, 46627), (201, 46750), (209, 46771), (218, 46798), (239, 46879), (244, 46897), (249, 46918), (272, 46996), (295, 47080), (322, 47245), (333, 47377),

Gene: Yndexa_66 Start: 50275, Stop: 49478, Start Num: 58
Candidate Starts for Yndexa_66:
(26, 50374), (Start: 48 @50302 has 3 MA's), (Start: 58 @50275 has 29 MA's), (85, 50200), (142, 50026), (183, 49894), (190, 49864), (193, 49855), (197, 49846), (205, 49819), (215, 49792), (228, 49747), (236, 49714), (239, 49702), (244, 49684), (275, 49603), (299, 49525),

Gene: Yucky_44 Start: 30778, Stop: 29972, Start Num: 46
Candidate Starts for Yucky_44:
(Start: 46 @30778 has 60 MA's), (Start: 48 @30772 has 3 MA's), (87, 30670), (100, 30616), (127, 30553), (135, 30517), (164, 30442), (168, 30427), (182, 30382), (183, 30379), (192, 30343), (195, 30334), (216, 30277), (229, 30229), (230, 30226), (239, 30184), (275, 30091), (293, 30022),

Gene: Yummy_42 Start: 28728, Stop: 27910, Start Num: 46
Candidate Starts for Yummy_42:
(Start: 40 @28746 has 4 MA's), (Start: 46 @28728 has 60 MA's), (Start: 48 @28722 has 3 MA's), (100, 28572), (101, 28569), (127, 28509), (152, 28431), (164, 28398), (169, 28380), (182, 28338), (183, 28335), (192, 28299), (195, 28290), (216, 28233), (226, 28194), (236, 28149), (239, 28137), (243, 28125), (244, 28119), (293, 27966),

Gene: Zany_65 Start: 45737, Stop: 46807, Start Num: 67
Candidate Starts for Zany_65:
(Start: 67 @45737 has 51 MA's), (108, 45869), (127, 45917), (157, 46010), (159, 46019), (163, 46028), (201, 46151), (209, 46172), (218, 46199), (239, 46280), (244, 46298), (249, 46319), (272, 46397), (295, 46481), (322, 46646), (333, 46778),

Gene: Zareef_38 Start: 28654, Stop: 27842, Start Num: 46
Candidate Starts for Zareef_38:
(24, 28726), (Start: 46 @28654 has 60 MA's), (127, 28438), (135, 28402), (152, 28360), (157, 28345), (164, 28327), (168, 28312), (169, 28309), (182, 28267), (195, 28219), (217, 28159), (226, 28126), (238, 28072), (243, 28057), (280, 27940),

Gene: Zenon_72 Start: 52992, Stop: 53822, Start Num: 57
Candidate Starts for Zenon_72:
(Start: 57 @52992 has 10 MA's), (79, 53037), (86, 53067), (92, 53100), (102, 53124), (122, 53172), (128, 53193), (153, 53286), (163, 53316), (165, 53319), (195, 53415), (211, 53445), (234, 53529), (236, 53535), (239, 53547), (244, 53565), (252, 53592), (253, 53595), (282, 53691), (292, 53712), (302, 53739),

Gene: Zion_54 Start: 45339, Stop: 44575, Start Num: 65
Candidate Starts for Zion_54:
(Start: 65 @45339 has 17 MA's), (132, 45120), (159, 45045), (225, 44838), (239, 44784), (262, 44739), (289, 44655),

Gene: Zuko_81 Start: 61795, Stop: 62607, Start Num: 48
Candidate Starts for Zuko_81:
(Start: 48 @61795 has 3 MA's), (83, 61870), (130, 62005), (152, 62074), (154, 62080), (164, 62107), (169, 62125), (197, 62218), (208, 62248), (216, 62272), (230, 62326), (231, 62329), (242, 62377), (244, 62386), (249, 62407), (271, 62482),