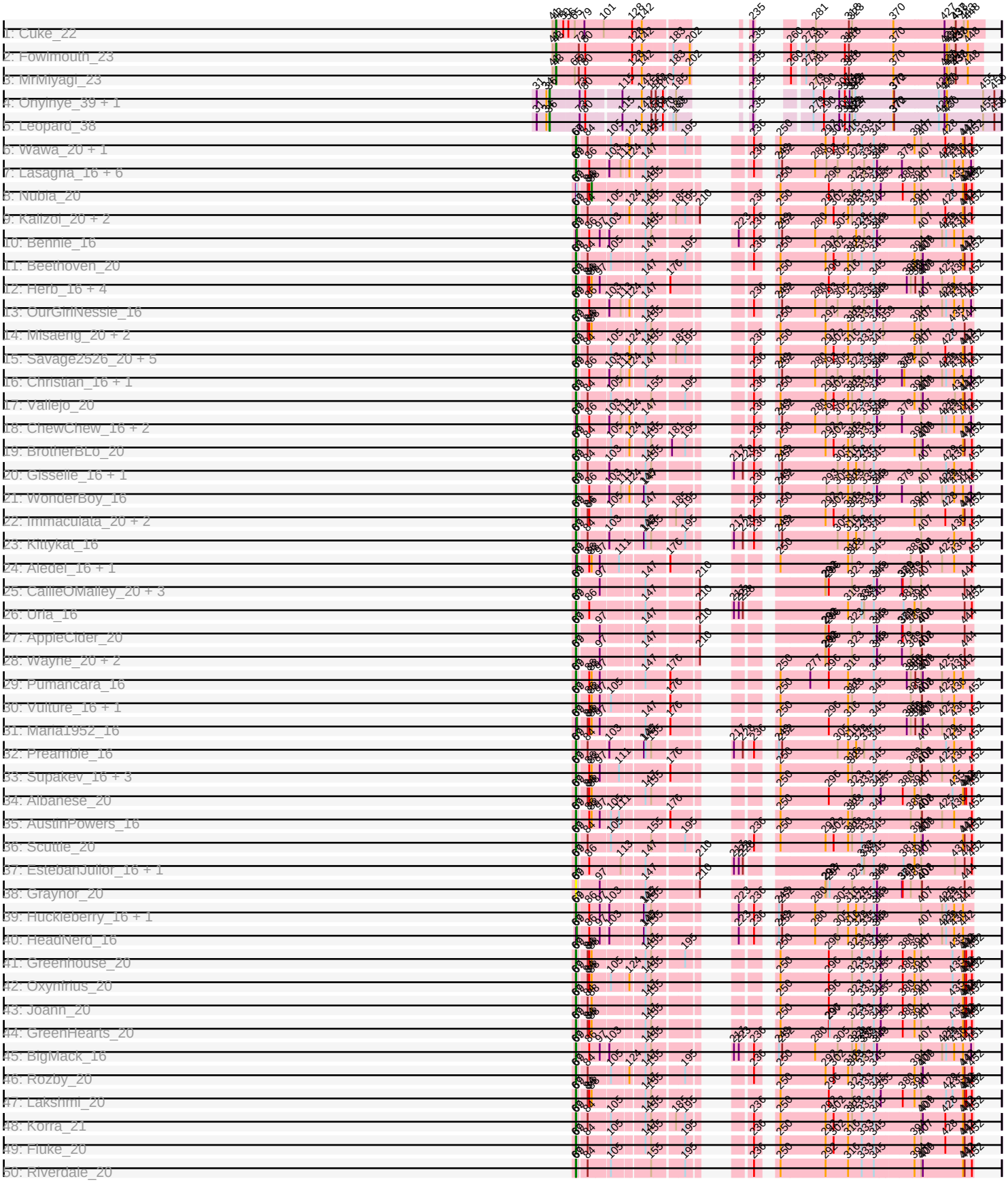
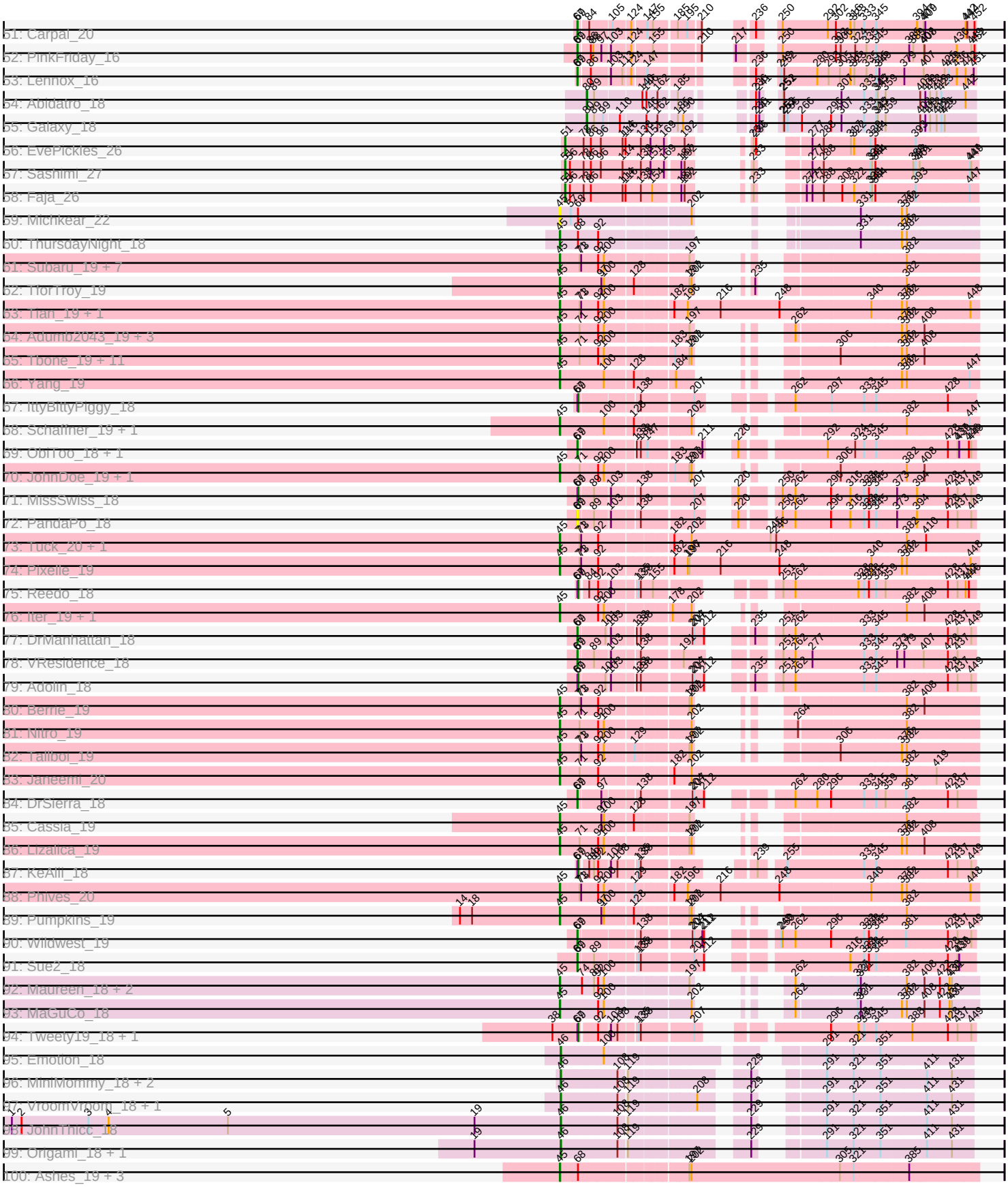
Pham 334303


1: Cuke_22
2: Fowlmouth_23
3: MrMiyagi_23
4: Onyinye_39 + 1
5: Leopard_38
6: Wawa_20 + 1
7: Lasagna_16 + 6
8: Nubia_20
9: Kallzol_20 + 2
10: Bennie_16
11: Beethoven_20
12: Herb_16 + 4
13: OurGirlNessie_16
14: Misaeng_20 + 2
15: Savage2526_20 + 5
16: Christian_16 + 1
17: Vallejo_20
18: ChewChew_16 + 2
19: BrotherBLo_20
20: Gisselle_16 + 1
21: WonderBoy_16
22: Immaculata_20 + 2
23: Kittykat_16
24: Aledel_16 + 1
25: CallieOMalley_20 + 3
26: Orla_16
27: AppleCider_20
28: Wayne_20 + 2
29: Pumancara_16
30: Vulture_16 + 1
31: Maria1952_16
32: Preamble_16
33: Supakev_16 + 3
34: Albanese_20
35: AustinPowers_16
36: Scuttle_20
37: EstebanJulior_16 + 1
38: Graynor_20
39: Huckleberry_16 + 1
40: HeadNerd_16
41: Greenhouse_20
42: Oxynhus_20
43: Joann_20
44: GreenHearts_20
45: BigMack_16
46: Rozby_20
47: Lakshmi_20
48: Korra_21
49: Fluke_20
50: Riverdale_20

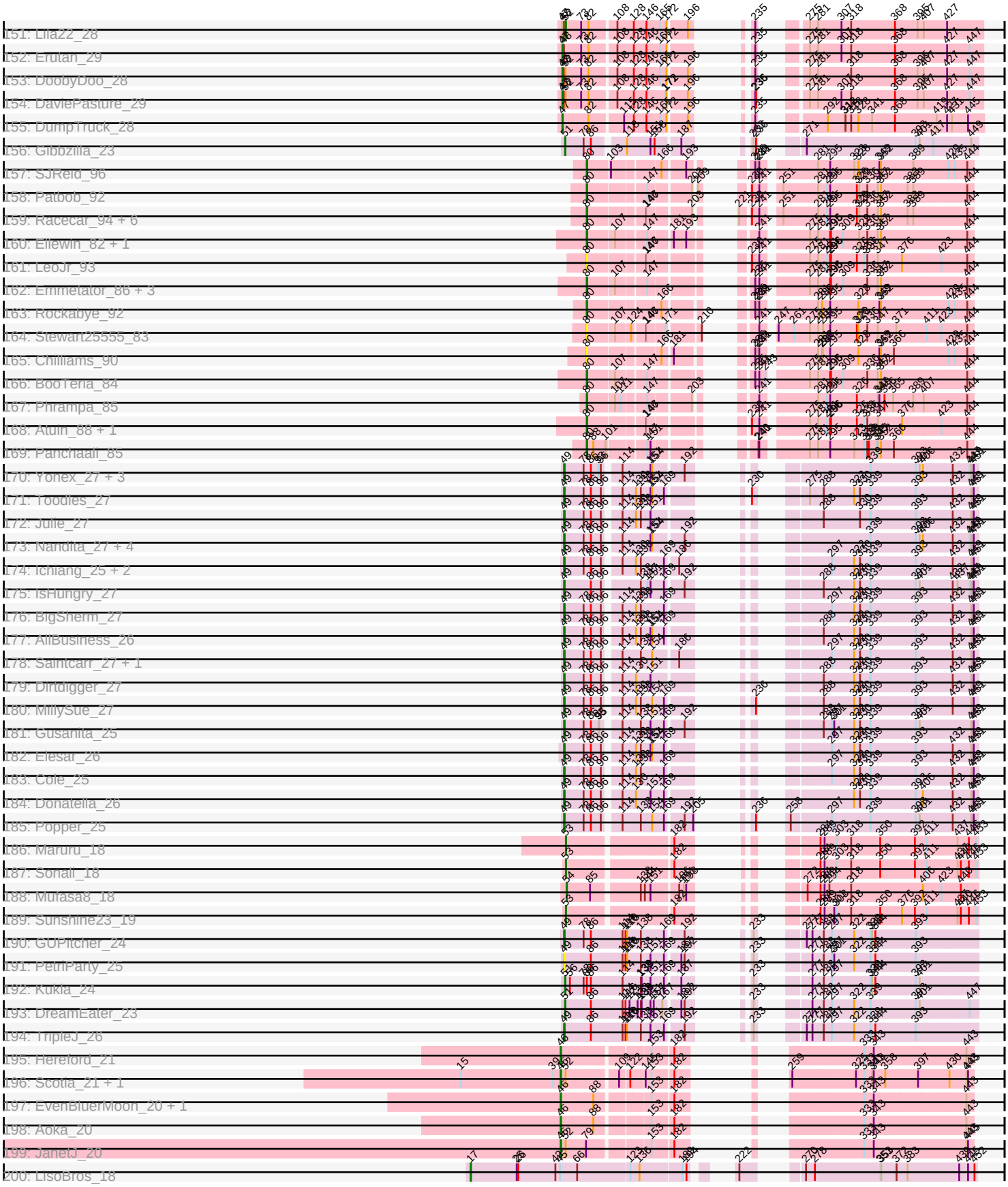
Pham 334303


51: Carpal_20
52: PinkFriday_16
53: Lennox_16
54: Abidatro_18
55: Galaxy_18
56: EvePickles_26
57: Sashimi_27
58: Faja_26
59: Michkear_22
60: ThursdayNight_18
61: Subaru_19 + 7
62: MorTroy_19
63: Tian_19 + 1
64: Adumo2043_19 + 3
65: Tbone_19 + 11
66: Yang_19
67: IttyBittyPiggy_18
68: Schaffer_19 + 1
69: ObiToo_18 + 1
70: JohnDoe_19 + 1
71: MissSwiss_18
72: PandaPo_18
73: Tuck_20 + 1
74: Pixelle_19
75: Reedo_18
76: Iter_19 + 1
77: DrManhattan_18
78: VResidence_18
79: Adolin_18
80: Bernie_19
81: Nitro_19
82: Tallboi_19
83: Janeemi_20
84: DrSierra_18
85: Cassia_19
86: Lizalica_19
87: KeAm_18
88: Phives_20
89: Pumpkins_19
90: Wildwest_19
91: Sue2_18
92: Maureen_18 + 2
93: MaGuCo_18
94: Tweety19_18 + 1
95: Emotion_18
96: MiniMommy_18 + 2
97: VroomVroom_18 + 1
98: JohnThicc_18
99: Origami_18 + 1
100: Ashes_19 + 3

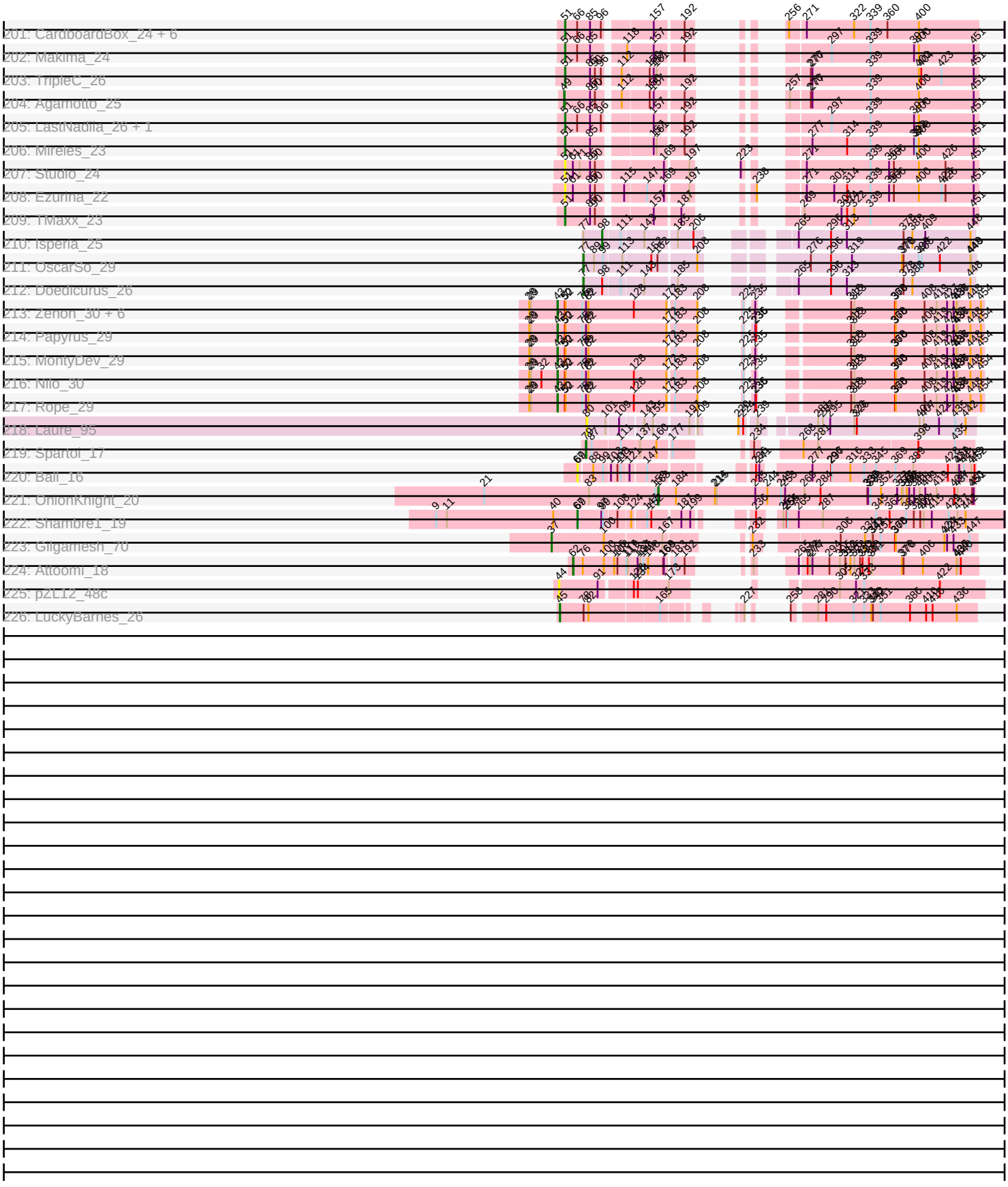
Pham 334303


101: SpecialK_19
102: Mysterium_19 + 4
103: Gamboi_19 + 5
104: Exile_18
105: Soondubu_18
106: AimMach_18
107: Vash_15
108: Euratis_15
109: phiBT1_46
110: Shawty_15
111: Lilbooboo_15
112: Samora_15
113: TG1_15
114: Heather_15
115: RemusLoopin_15
116: Sebastisaurus_15
117: Tubberson_19
118: SoJo_19
119: Picard_19
120: DaRealMyers_19
121: SV1_19
122: Mojorita_19
123: ToastyFinz_18
124: Darolandstone_19
125: Raleigh_19
126: Austintatious_19 + 1
127: Bioscum_19 + 1
128: PapayaSalad_19
129: Kokushibo_25
130: Galactica_23
131: Spocter_25 + 1
132: Keanu_25
133: E1_17 + 1
134: B3_17
135: LilyPad_25
136: Madi_24 + 4
137: Sienna_24
138: Suzy_24
139: LittleFella_26
140: Yikes_30 + 7
141: Lambo_29
142: Avian_26 + 10
143: BirthdayBoy_30 + 1
144: Mima20_27 + 9
145: LuckyLeo_28 + 2
146: Nettie_29
147: Wojtek_28 + 1
148: Tillicus_28
149: Xenia2_29
150: Alephilan_26

Pham 334303


151: Lila22_28
152: Erutan_29
153: DoobyDoo_28
154: DaviePasture_29
155: DumpTruck_28
156: Gibbzilla_23
157: SJReid_96
158: Patbob_92
159: Racecar_94 + 6
160: Ellewin_82 + 1
161: LeoJr_93
162: Emmetator_86 + 3
163: Rockabye_92
164: Stewart25555_83
165: Chilliams_90
166: BooTeria_84
167: Phrampa_85
168: Atuin_88 + 1
169: Panchaali_85
170: Yonex_27 + 3
171: Toodles_27
172: Julie_27
173: Nandita_27 + 4
174: Ichiang_25 + 2
175: IsHungry_27
176: BigSherm_27
177: AllBusiness_26
178: Salmtcan_27 + 1
179: Dirtdigger_27
180: MillySue_27
181: Gusanita_25
182: Elesar_26
183: Cole_25
184: Donatella_26
185: Popper_25
186: Maruru_18
187: Sonali_18
188: Mufasa8_18
189: Sunshine23_19
190: GUPitcher_24
191: PetriParty_25
192: Kukla_24
193: DreamEater_23
194: TripleJ_26
195: Hereford_21
196: Scotia_21 + 1
197: EvenBlueMoon_20 + 1
198: Aoka_20
199: JanetJ_20
200: LisoBros_18

Pham 334303


201: CardboardBox_24 + 6
202: Makima_24
203: TripleC_26
204: Agamotto_25
205: LastNadila_26 + 1
206: Mireles_23
207: Studio_24
208: Ezurina_22
209: TMaxx_23
210: Isperia_25
211: OscarSo_29
212: Doedicurus_26
213: Zenon_30 + 6
214: Papyrus_29
215: MontyDev_29
216: Nilo_30
217: Rope_29
218: Laure_95
219: Spartol_17
220: Ball_16
221: OnionKnight_20
222: Shambre1_19
223: Gilgamesh_70
224: Attoomi_18
225: pz112_48c
226: LuckyBarnes_26

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 334303 Report

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

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 334303 has 385 members, 42 are drafts.

Phages represented in each track:
- Track 1 : Cuke_22
- Track 2 : Fowlmouth_23
- Track 3 : MrMiyagi_23
- Track 4 : Onyinye_39, Aikoy_38
- Track 5 : Leopard_38
- Track 6 : Wawa_20, TattModd_20
- Track 7 : Lasagna_16, PitaDog_16, Lucy_16, CristinaYang_16, Nancia_16, Bodacious_16, LilStuart_16
- Track 8 : Nubia_20
- Track 9 : Kalizoi_20, Dino_20, Zorro_20
- Track 10 : Bennie_16
- Track 11 : Beethoven_20
- Track 12 : Herb_16, Daiboju_16, Sergei_16, KingBob_16, Temper16_16
- Track 13 : OurGirlNessie_16
- Track 14 : Misaeng_20, Huntingdon_20, RcigaStruga_20
- Track 15 : Savage2526_20, Glenn_20, RAP15_20, MrGloopy_20, MeganNoll_20, Jumboset_20
- Track 16 : Christian_16, DrRobert_16
- Track 17 : Vallejo_20
- Track 18 : ChewChew_16, Makoto_16, Pterodactyl_16
- Track 19 : BrotherBLo_20
- Track 20 : Gisselle_16, DreamTeam_16
- Track 21 : WonderBoy_16
- Track 22 : Immaculata_20, Cholula_20, Potatoes_20
- Track 23 : Kittykat_16
- Track 24 : Aledel_16, Chridison_16
- Track 25 : CallieOMalley_20, Suppi_20, Canowicakte_20, PartyCup_20
- Track 26 : Urla_16
- Track 27 : AppleCider_20
- Track 28 : Wayne_20, Litotes_20, MrBoss_20
- Track 29 : Pumancara_16
- Track 30 : Vulture_16, HunterDalle_16
- Track 31 : Maria1952_16

• Track 32 : Preamble_16
• Track 33 : Supakev_16, OMalley_16, Riovina_16, Eunoia_16
• Track 34 : Albanese_20
• Track 35 : AustinPowers_16
• Track 36 : Scuttle_20
• Track 37 : EstebanJulior_16, MamaPearl_16
• Track 38 : Graynor_20
• Track 39 : Huckleberry_16, Moki_16
• Track 40 : HeadNerd_16
• Track 41 : Greenhouse_20
• Track 42 : Oxynfrius_20
• Track 43 : Joann_20
• Track 44 : GreenHearts_20
• Track 45 : BigMack_16
• Track 46 : Rozby_20
• Track 47 : Lakshmi_20
• Track 48 : Korra_21
• Track 49 : Fluke_20
• Track 50 : Riverdale_20
• Track 51 : Carpal_20
• Track 52 : PinkFriday_16
• Track 53 : Lennox_16
• Track 54 : Abidatro_18
• Track 55 : Galaxy_18
• Track 56 : EvePickles_26
• Track 57 : Sashimi_27
• Track 58 : Faja_26
• Track 59 : Michkear_22
• Track 60 : ThursdayNight_18
• Track 61 : Subaru_19, Elezi_19, London_19, Skelbel_20, Jstan_20, Niobe_19, Eraser_19, Asa16_19
• Track 62 : TforTroy_19
• Track 63 : Tian_19, Amyev_19
• Track 64 : Adumb2043_19, Turab_19, Amploria_19, AEgle_19
• Track 65 : Tbone_19, Mudpuppy_19, Simpson_21, Joemato_19, Lego_19, YesChef_19, Powerpuff_19, Cyan_19, Tutumahutu_19, AGrandiflora_19, Flutur_19, Warda_19
• Track 66 : Yang_19
• Track 67 : IttyBittyPiggy_18
• Track 68 : Schaffner_19, JuneStar_19
• Track 69 : ObiToo_18, Crewmate_19
• Track 70 : JohnDoe_19, Kaylissa_19
• Track 71 : MissSwiss_18
• Track 72 : PandaPo_18
• Track 73 : Tuck_20, Community_19
• Track 74 : Pixelle_19
• Track 75 : Reedo_18
• Track 76 : Iter_19, Ascela_19
• Track 77 : DrManhattan_18
• Track 78 : VResidence_18
• Track 79 : Adolin_18
• Track 80 : Berrie_19
• Track 81 : Nitro_19

• Track 82 : Tallboi_19
• Track 83 : Janeemi_20
• Track 84 : DrSierra_18
• Track 85 : Cassia_19
• Track 86 : Lizalica_19
• Track 87 : KeAlii_18
• Track 88 : Phives_20
• Track 89 : Pumpkins_19
• Track 90 : Wildwest_19
• Track 91 : Sue2_18
• Track 92 : Maureen_18, IUFootball_18, Liebe_18
• Track 93 : MaGuCo_18
• Track 94 : Tweety19_18, Snek_18
• Track 95 : Emotion_18
• Track 96 : MiniMommy_18, JasmineDragon_18, ShakeItOph_18
• Track 97 : VroomVroom_18, AceofSpades_18
• Track 98 : JohnThicc_18
• Track 99 : Origami_18, LadyAstra_18
• Track 100 : Ashes_19, Halsey_19, RockScotty_19, Moss_19
• Track 101 : SpecialK_19
• Track 102 : Mysterium_19, Gumpizza_19, Beaupre_19, Stuu_19, Giorgio_19
• Track 103 : Gambol_19, Sooty_19, Cappuccino_19, Kalimba_19, Donkey_19, Sabourin_19
• Track 104 : Exile_18
• Track 105 : Soondubu_18
• Track 106 : AinMach_18
• Track 107 : Vash_15
• Track 108 : Euratis_15
• Track 109 : phiBT1_46
• Track 110 : Shawty_15
• Track 111 : Lilbooboo_15
• Track 112 : Samora_15
• Track 113 : TG1_15
• Track 114 : Heather_15
• Track 115 : RemusLoopin_15
• Track 116 : Sebastisaurus_15
• Track 117 : Tubberson_19
• Track 118 : SoJo_19
• Track 119 : Picard_19
• Track 120 : DaRealMyers_19
• Track 121 : SV1_19
• Track 122 : Mojorita_19
• Track 123 : ToastyFinz_18
• Track 124 : Darolandstone_19
• Track 125 : Raleigh_19
• Track 126 : Austintatious_19, Lishka_19
• Track 127 : Bioscum_19, Ididsumtinwong_19
• Track 128 : PapayaSalad_19
• Track 129 : Kokushibo_25
• Track 130 : Galactica_23
• Track 131 : Spocter_25, Hiyaa_25
• Track 132 : Keanu_25
• Track 133 : E1_17, Anatole_17

• Track 134 : B3_17
• Track 135 : LilyPad_25
• Track 136 : Madi_24, BiteSize_24, Djokovic_24, Beyoncage_24, Terapin_24
• Track 137 : Sienna_24
• Track 138 : Suzy_24
• Track 139 : LittleFella_26
• Track 140 : Yikes_30, OtterstedtS21_29, Rota_28, Sampudon_29, MoiGyank_31, LavAbarElk_27, Pywacket_28, Jalebi_28
• Track 141 : Lambo_29
• Track 142 : Avian_26, NovaSharks_28, Astralis_26, Alyssamiracle_29, Riduram_26, Genamy16_29, Rumi_28, Charminar_26, Jamemuya19_26, Stormer_27, RazorC_27
• Track 143 : BirthdayBoy_30, Zany_28
• Track 144 : Mima20_27, Gibbin_30, Patos_30, GOATification_30, Ranch_29, Rukungu_29, Fulcrum_30, NorManre_30, Sadboi_29, GretelLyn_29
• Track 145 : LuckyLeo_28, Apeppi_26, Aaravos_26
• Track 146 : Nettle_29
• Track 147 : Wojtek_28, ParvusTarda_29
• Track 148 : Tillicus_28
• Track 149 : Xenia2_29
• Track 150 : Alephilan_26
• Track 151 : Lila22_28
• Track 152 : Erutan_29
• Track 153 : DoobyDoo_28
• Track 154 : DaviePasture_29
• Track 155 : DumpTruck_28
• Track 156 : Gibbzilla_23
• Track 157 : SJReid_96
• Track 158 : Patbob_92
• Track 159 : Racecar_94, FloraSnap32_90, Bloom_97, FrostedClock_92, GoldenEssence_79, Talia1610_93, Mimi_93
• Track 160 : Ellewin_82, KSunshine22_88
• Track 161 : LeoJr_93
• Track 162 : Emmetator_86, WaddleDee_81, Artu_84, DunneganBoMo_83
• Track 163 : Rockabye_92
• Track 164 : Stewart25555_83
• Track 165 : Chilliams_90
• Track 166 : BooTeria_84
• Track 167 : Phrampa_85
• Track 168 : Atuin_88, ReginaGlobina_93
• Track 169 : Panchaali_85
• Track 170 : Yonex_27, Zaheer_27, Ryan_27, GoodLuckBabe_27
• Track 171 : Toodles_27
• Track 172 : Julie_27
• Track 173 : Nandita_27, Schism_27, Guinevere_27, Lenoxika_27, Kihatsu_28
• Track 174 : Ichiang_25, Halloweekend_25, QuinnAvery_27
• Track 175 : IsHungry_27
• Track 176 : BigSherm_27
• Track 177 : AllBusiness_26
• Track 178 : Saintcarr_27, ToastyOats_29
• Track 179 : Dirtdigger_27
• Track 180 : MillySue_27
• Track 181 : Gusanita_25
• Track 182 : Elesar_26

• Track 183 : Cole_25
• Track 184 : Donatella_26
• Track 185 : Popper_25
• Track 186 : Maruru_18
• Track 187 : Sonali_18
• Track 188 : Mufasa8_18
• Track 189 : Sunshine23_19
• Track 190 : GUPitcher_24
• Track 191 : PetriParty_25
• Track 192 : Kukla_24
• Track 193 : DreamEater_23
• Track 194 : TripleJ_26
• Track 195 : Hereford_21
• Track 196 : Scotia_21, NoSwimming_21
• Track 197 : EvenBluerMoon_20, PrairieDogTown_20
• Track 198 : Aoka_20
• Track 199 : JanetJ_20
• Track 200 : LisoBros_18
• Track 201 : CardboardBox_24, Neuvillette_23, ChamoyPickle_24, Gerri43_23, Roberts_23, AnnabelLee_23, ChipsNGuac_23
• Track 202 : Makima_24
• Track 203 : TripleC_26
• Track 204 : Agamotto_25
• Track 205 : LastNadiia_26, Audell_26
• Track 206 : Mireles_23
• Track 207 : Studio_24
• Track 208 : Ezurina_22
• Track 209 : TMaxx_23
• Track 210 : Isperia_25
• Track 211 : OscarSo_29
• Track 212 : Doedicurus_26
• Track 213 : Zenon_30, Weiss13_29, Candle_29, Riparian_29, Yelo_29, Gimesa_30, Send513_29
• Track 214 : Papyrus_29
• Track 215 : MontyDev_29
• Track 216 : Nilo_30
• Track 217 : Rope_29
• Track 218 : Laure_95
• Track 219 : Spartoi_17
• Track 220 : Ball_16
• Track 221 : OnionKnight_20
• Track 222 : Shambre1_19
• Track 223 : Gilgamesh_70
• Track 224 : Attoomi_18
• Track 225 : pZL12_48c
• Track 226 : LuckyBarnes_26

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

The start number called the most often in the published annotations is 67, it was called in 83 of the 343 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Albanese_20, AppleCider_20, AustinPowers_16, Ball_16, Beethoven_20, BigMack_16, Bodacious_16, BrotherBLo_20, CallieOMalley_20, Canowicakte_20, Carpal_20, Cholula_20, Christian_16, Crewmate_19, CristinaYang_16, Daiboju_16, Dino_20, DrManhattan_18, DrRobert_16, DrSierra_18, DreamTeam_16, EstebanJulior_16, Eunoia_16, Fluke_20, Gisselle_16, Glenn_20, Graynor_20, GreenHearts_20, Greenhouse_20, Herb_16, Huckleberry_16, HunterDalle_16, Huntingdon_20, Immaculata_20, Joann_20, Jumboset_20, Kalizoi_20, KingBob_16, Kittykat_16, Korra_21, Lakshmi_20, Lasagna_16, Lennox_16, LilStuart_16, Litotes_20, Lucy_16, MamaPearl_16, MeganNoll_20, Misaeng_20, Moki_16, MrBoss_20, MrGloopy_20, Nancia_16, OMalley_16, ObiToo_18, OurGirlNessie_16, Oxynfrius_20, PandaPo_18, PartyCup_20, PinkFriday_16, PitaDog_16, Potatoes_20, Preamble_16, Pumancara_16, RAP15_20, RcigaStruga_20, Riovina_16, Riverdale_20, Rozby_20, Savage2526_20, Scuttle_20, Sergei_16, Shambre1_19, Sue2_18, Supakev_16, Suppi_20, TattModd_20, Temper16_16, Urla_16, VResidence_18, Vallejo_20, Vulture_16, Wawa_20, Wayne_20, Wildwest_19, WonderBoy_16, Zorro_20,

Genes that have the "Most Annotated" start but do not call it:
• Adolin_18, Aledel_16, Bennie_16, ChewChew_16, Chridison_16, HeadNerd_16, IttyBittyPiggy_18, KeAlii_18, Makoto_16, Maria1952_16, MissSwiss_18, Nubia_20, Pterodactyl_16, Reedo_18, Snek_18, Tweety19_18,

Genes that do not have the "Most Annotated" start:
• AEgle_19, AGrandiflora_19, Aaravos_26, Abidatro_18, AceofSpades_18, Adumb2043_19, Agamotto_25, Aikoy_38, AinMach_18, Alephilan_26, AllBusiness_26, Alyssamiracle_29, Amploria_19, Amyev_19, Anatole_17, AnnabelLee_23, Aoka_20, Apeppi_26, Artu_84, Asa16_19, Ascela_19, Ashes_19, Astralis_26, Attoomi_18, Atuin_88, Audell_26, Austintatious_19, Avian_26, B3_17, Beaupre_19, Berrie_19, Beyoncage_24, BigSherm_27, Bioscum_19, BirthdayBoy_30, BiteSize_24, Bloom_97, BooTeria_84, Candle_29, Cappuccino_19, CardboardBox_24, Cassia_19, ChamoyPickle_24, Charminar_26, Chilliams_90, ChipsNGuac_23, Cole_25, Community_19, Cuke_22, Cyan_19, DaRealMyers_19, Darolandstone_19, DaviePasture_29, Dirtdigger_27, Djokovic_24, Doedicurus_26, Donatella_26, Donkey_19, DoobyDoo_28, DreamEater_23, DumpTruck_28, DunneganBoMo_83, E1_17, Elesar_26, Elezi_19, Ellewin_82, Emmetator_86, Emotion_18, Eraser_19, Erutan_29, Euratis_15, EvePickles_26, EvenBluerMoon_20, Exile_18, Ezurina_22, Faja_26, FloraSnap32_90, Flutur_19, Fowlmouth_23, FrostedClock_92, Fulcrum_30, GOATification_30, GUPitcher_24, Galactica_23, Galaxy_18, Gambol_19, Genamy16_29, Gerri43_23, Gibbin_30, Gibbzilla_23, Gilgamesh_70, Gimesa_30, Giorgio_19, GoldenEssence_79, GoodLuckBabe_27, GretelLyn_29, Guinevere_27, Gumpizza_19, Gusanita_25, Halloweekend_25, Halsey_19, Heather_15, Hereford_21, Hiyaa_25, IUFootball_18, Ichiang_25, Ididsumtinwong_19, IsHungry_27, Isperia_25, Iter_19, Jalebi_28, Jamemuya19_26, Janeemi_20, JanetJ_20, JasmineDragon_18, Joemato_19, JohnDoe_19, JohnThicc_18, Jstan_20, Julie_27, JuneStar_19, KSunshine22_88, Kalimba_19, Kaylissa_19, Keanu_25, Kihatsu_28, Kokushibo_25, Kukla_24, LadyAstra_18, Lambo_29, LastNadiia_26, Laure_95, LavAbarElk_27, Lego_19, Lenoxika_27, LeoJr_93, Leopard_38, Liebe_18, Lila22_28, Lilbooboo_15, LilyPad_25, Lishka_19, LisoBros_18, LittleFella_26, Lizalica_19, London_19, LuckyBarnes_26, LuckyLeo_28,

MaGuCo_18, Madi_24, Makima_24, Maruru_18, Maureen_18, Michkear_22, MillySue_27, Mima20_27, Mimi_93, MiniMommy_18, Mireles_23, MoiGyank_31, Mojorita_19, MontyDev_29, Moss_19, MrMiyagi_23, Mudpuppy_19, Mufasa8_18, Mysterium_19, Nandita_27, Nettle_29, Neuvillette_23, Nilo_30, Niobe_19, Nitro_19, NoSwimming_21, NorManre_30, NovaSharks_28, OnionKnight_20, Onyinye_39, Origami_18, OscarSo_29, OtterstedtS21_29, Panchaali_85, PapayaSalad_19, Papyrus_29, ParvusTarda_29, Patbob_92, Patos_30, PetriParty_25, Phives_20, Phrampa_85, Picard_19, Pixelle_19, Popper_25, Powerpuff_19, PrairieDogTown_20, Pumpkins_19, Pywacket_28, QuinnAvery_27, Racecar_94, Raleigh_19, Ranch_29, RazorC_27, ReginaGlobina_93, RemusLoopin_15, Riduram_26, Riparian_29, Roberts_23, RockScotty_19, Rockabye_92, Rope_29, Rota_28, Rukungu_29, Rumi_28, Ryan_27, SJReid_96, SV1_19, Sabourin_19, Sadboi_29, Saintcarr_27, Samora_15, Sampudon_29, Sashimi_27, Schaffner_19, Schism_27, Scotia_21, Sebastisaurus_15, Send513_29, ShakeItOph_18, Shawty_15, Sienna_24, Simpson_21, Skelbel_20, SoJo_19, Sonali_18, Soondubu_18, Sooty_19, Spartoi_17, SpecialK_19, Spocter_25, Stewart25555_83, Stormer_27, Studio_24, Stuu_19, Subaru_19, Sunshine23_19, Suzy_24, TG1_15, TMaxx_23, Talia1610_93, Tallboi_19, Tbone_19, Terapin_24, TforTroy_19, ThursdayNight_18, Tian_19, Tillicus_28, ToastyFinz_18, ToastyOats_29, Toodles_27, TripleC_26, TripleJ_26, Tubberson_19, Tuck_20, Turab_19, Tutumahutu_19, Vash_15, VroomVroom_18, WaddleDee_81, Warda_19, Weiss13_29, Wojtek_28, Xenia2_29, Yang_19, Yelo_29, YesChef_19, Yikes_30, Yonex_27, Zaheer_27, Zany_28, Zenon_30, pZL12_48c, phiBT1_46,

Summary by start number:

Start 17:
• Found in 1 of 385 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 343
• Called 100.0% of time when present
• Phage (with cluster) where this start called: LisoBros_18 (FP),

Start 36:
• Found in 3 of 385 (0.8%) of genes in pham
• Manual Annotations of this start: 3 of 343
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aikoy_38 (AE), Leopard_38 (AE), Onyinye_39 (AE),

Start 37:
• Found in 1 of 385 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 343
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gilgamesh_70 (singleton),

Start 43:
• Found in 14 of 385 (3.6%) of genes in pham
• Manual Annotations of this start: 13 of 343
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Candle_29 (R), Cuke_22 (AC), Fowlmouth_23 (AC), Gimesa_30 (R), MontyDev_29 (R), MrMiyagi_23 (AC), Nilo_30 (R), Papyrus_29 (R), Riparian_29 (R), Rope_29 (R), Send513_29 (R), Weiss13_29 (R), Yelo_29 (R), Zenon_30 (R),

Start 44:
• Found in 1 of 385 (0.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: pZL12_48c (singleton),

Start 45:
• Found in 73 of 385 (19.0%) of genes in pham
• Manual Annotations of this start: 59 of 343
• Called 95.9% of time when present
• Phage (with cluster) where this start called: AEgle_19 (AZ1), AGrandiflora_19 (AZ1), Adumb2043_19 (AZ1), AinMach_18 (AZ7), Amploria_19 (AZ1), Amyev_19 (AZ1), Asa16_19 (AZ1), Ascela_19 (AZ1), Ashes_19 (AZ5), Beaupre_19 (AZ5), Berrie_19 (AZ1), Cappuccino_19 (AZ5), Cassia_19 (AZ1), Community_19 (AZ1), Cyan_19 (AZ1), Donkey_19 (AZ5), Elezi_19 (AZ1), Eraser_19 (AZ1), Exile_18 (AZ6), Flutur_19 (AZ), Gambol_19 (AZ5), Giorgio_19 (AZ5), Gumpizza_19 (AZ5), Halsey_19 (AZ5), IUFootball_18 (AZ2), Iter_19 (AZ1), Janeemi_20 (AZ1), Joemato_19 (AZ1), JohnDoe_19 (AZ1), Jstan_20 (AZ1), JuneStar_19 (AZ1), Kalimba_19 (AZ5), Kaylissa_19 (AZ1), Lego_19 (AZ1), Liebe_18 (AZ2), Lizalica_19 (AZ1), London_19 (AZ1), LuckyBarnes_26 (singleton), MaGuCo_18 (AZ2), Maureen_18 (AZ2), Michkear_22 (AZ), Moss_19 (AZ5), Mudpuppy_19 (AZ1), Mysterium_19 (AZ5), Niobe_19 (AZ1), Nitro_19 (AZ1), Phives_20 (AZ1), Pixelle_19 (AZ1), Powerpuff_19 (AZ1), Pumpkins_19 (AZ1), RockScotty_19 (AZ5), Sabourin_19 (AZ5), Schaffner_19 (AZ1), Simpson_21 (AZ1), Skelbel_20 (AZ1), Soondubu_18 (AZ6), Sooty_19 (AZ5), Stuu_19 (AZ5), Subaru_19 (AZ1), Tallboi_19 (AZ1), Tbone_19 (AZ1), TforTroy_19 (AZ1), ThursdayNight_18 (AZ), Tian_19 (AZ1), Tuck_20 (AZ1), Turab_19 (AZ1), Tutumahutu_19 (AZ1), Warda_19 (AZ1), Yang_19 (AZ1), YesChef_19 (AZ1),

Start 46:
• Found in 16 of 385 (4.2%) of genes in pham
• Manual Annotations of this start: 15 of 343
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AceofSpades_18 (AZ4), Aoka_20 (FO), Emotion_18 (AZ4), EvenBluerMoon_20 (FO), Hereford_21 (FO), JanetJ_20 (FO), JasmineDragon_18 (AZ4), JohnThicc_18 (AZ4), LadyAstra_18 (AZ4), MiniMommy_18 (AZ4), NoSwimming_21 (FO), Origami_18 (AZ4), PrairieDogTown_20 (FO), Scotia_21 (FO), ShakeItOph_18 (AZ4), VroomVroom_18 (AZ4),

Start 47:
• Found in 55 of 385 (14.3%) of genes in pham
• Manual Annotations of this start: 48 of 343
• Called 98.2% of time when present
• Phage (with cluster) where this start called: Aaravos_26 (DV), Alephilan_26 (DV), Alyssamiracle_29 (DV), Apeppi_26 (DV), Astralis_26 (DV), Avian_26 (DV), Beyoncage_24 (DG1), BirthdayBoy_30 (DV), BiteSize_24 (DG1), Charminar_26 (DV), DaviePasture_29 (DV), Djokovic_24 (DG1), DoobyDoo_28 (DV), DumpTruck_28 (DV), Erutan_29 (DV), Fulcrum_30 (DV), GOATification_30 (DV), Genamy16_29 (DV), Gibbin_30 (DV), GretelLyn_29 (DV), Jalebi_28 (DV), Jamemuya19_26 (DV), Lambo_29 (DV), LavAbarElk_27 (DV), LilyPad_25 (DG1), LittleFella_26 (DG2), LuckyLeo_28 (DV), Madi_24 (DG1), Mima20_27 (DV), MoiGyank_31 (DV), Nettle_29 (DV), NorManre_30 (DV), NovaSharks_28 (DV), OtterstedtS21_29 (DV),

ParvusTarda_29 (DV), Patos_30 (DV), Pywacket_28 (DV), Ranch_29 (DV), RazorC_27 (DV), Riduram_26 (DV), Rota_28 (DV), Rukungu_29 (DV), Rumi_28 (DV), Sadboi_29 (DV), Sampudon_29 (DV), Sienna_24 (DG1), Stormer_27 (DV), Suzy_24 (DG1), Terapin_24 (DG1), Tillicus_28 (DV), Wojtek_28 (DV), Xenia2_29 (DV), Yikes_30 (DV), Zany_28 (DV),

Start 49:
• Found in 30 of 385 (7.8%) of genes in pham
• Manual Annotations of this start: 26 of 343
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Agamotto_25 (FR), AllBusiness_26 (FF), BigSherm_27 (FF), Cole_25 (FF), Dirtdigger_27 (FF), Donatella_26 (FF), Elesar_26 (FF), GUPitcher_24 (FJ), GoodLuckBabe_27 (FF), Guinevere_27 (FF), Gusanita_25 (FF), Halloweekend_25 (FF), Ichiang_25 (FF), IsHungry_27 (FF), Julie_27 (FF), Kihatsu_28 (FF), Lenoxika_27 (FF), MillySue_27 (FF), Nandita_27 (FF), PetriParty_25 (FJ), Popper_25 (FF), QuinnAvery_27 (FF), Ryan_27 (FF), Saintcarr_27 (FF), Schism_27 (FF), ToastyOats_29 (FF), Toodles_27 (FF), TripleJ_26 (FJ), Yonex_27 (FF), Zaheer_27 (FF),

Start 51:
• Found in 21 of 385 (5.5%) of genes in pham
• Manual Annotations of this start: 16 of 343
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AnnabelLee_23 (FR), Audell_26 (FR), CardboardBox_24 (FR), ChamoyPickle_24 (FR), ChipsNGuac_23 (FR), DreamEater_23 (FJ), EvePickles_26 (AY), Ezurina_22 (FR), Faja_26 (AY), Gerri43_23 (FR), Gibbzilla_23 (FB), Kukla_24 (FJ), LastNadiia_26 (FR), Makima_24 (FR), Mireles_23 (FR), Neuvillette_23 (FR), Roberts_23 (FR), Sashimi_27 (AY), Studio_24 (FR), TMaxx_23 (FR), TripleC_26 (FR),

Start 52:
• Found in 51 of 385 (13.2%) of genes in pham
• Manual Annotations of this start: 1 of 343
• Called 2.0% of time when present
• Phage (with cluster) where this start called: Lila22_28 (DV),

Start 53:
• Found in 3 of 385 (0.8%) of genes in pham
• Manual Annotations of this start: 3 of 343
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Maruru_18 (FG), Sonali_18 (FG), Sunshine23_19 (FG),

Start 54:
• Found in 1 of 385 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 343
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Mufasa8_18 (FG),

Start 57:
• Found in 5 of 385 (1.3%) of genes in pham
• Manual Annotations of this start: 1 of 343
• Called 20.0% of time when present

• Phage (with cluster) where this start called: Kokushibo_25 (BQ),

Start 58:
• Found in 4 of 385 (1.0%) of genes in pham
• Manual Annotations of this start: 4 of 343
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Darolandstone_19 (BC2), Galactica_23 (BQ), Keanu_25 (BQ), Raleigh_19 (BC2),

Start 59:
• Found in 2 of 385 (0.5%) of genes in pham
• Manual Annotations of this start: 2 of 343
• Called 100.0% of time when present
• Phage (with cluster) where this start called: RemusLoopin_15 (BB2), Sebastisaurus_15 (BB2),

Start 60:
• Found in 1 of 385 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 343
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Heather_15 (BB2),

Start 62:
• Found in 17 of 385 (4.4%) of genes in pham
• Manual Annotations of this start: 15 of 343
• Called 88.2% of time when present
• Phage (with cluster) where this start called: Attoomi_18 (singleton), Austintatious_19 (BC3), Bioscum_19 (BC3), DaRealMyers_19 (BC1), Hiyaa_25 (BQ), Ididsumtinwong_19 (BC3), Lishka_19 (BC3), Mojorita_19 (BC1), PapayaSalad_19 (BC3), Picard_19 (BC1), SV1_19 (BC1), SoJo_19 (BC1), Spocter_25 (BQ), ToastyFinz_18 (BC1), Tubberson_19 (BC1),

Start 63:
• Found in 7 of 385 (1.8%) of genes in pham
• Manual Annotations of this start: 6 of 343
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Euratis_15 (BB1), Lilbooboo_15 (BB1), Samora_15 (BB1), Shawty_15 (BB1), TG1_15 (BB1), Vash_15 (BB1), phiBT1_46 (BB1),

Start 67:
• Found in 103 of 385 (26.8%) of genes in pham
• Manual Annotations of this start: 83 of 343
• Called 84.5% of time when present
• Phage (with cluster) where this start called: Albanese_20 (AK), AppleCider_20 (AK), AustinPowers_16 (AK), Ball_16 (singleton), Beethoven_20 (AK), BigMack_16 (AK), Bodacious_16 (AK), BrotherBLo_20 (AK), CallieOMalley_20 (AK), Canowicakte_20 (AK), Carpal_20 (AK), Cholula_20 (AK), Christian_16 (AK), Crewmate_19 (AZ1), CristinaYang_16 (AK), Daiboju_16 (AK), Dino_20 (AK), DrManhattan_18 (AZ1), DrRobert_16 (AK), DrSierra_18 (AZ1), DreamTeam_16 (AK), EstebanJulior_16 (AK), Eunoia_16 (AK), Fluke_20 (AK), Gisselle_16 (AK), Glenn_20 (AK), Graynor_20 (AK), GreenHearts_20 (AK), Greenhouse_20 (AK), Herb_16 (AK), Huckleberry_16 (AK), HunterDalle_16 (AK), Huntingdon_20 (AK), Immaculata_20 (AK), Joann_20 (AK),

Jumboset_20 (AK), Kalizoi_20 (AK), KingBob_16 (AK), Kittykat_16 (AK), Korra_21 (AK), Lakshmi_20 (AK), Lasagna_16 (AK), Lennox_16 (AK), LilStuart_16 (AK), Litotes_20 (AK), Lucy_16 (AK), MamaPearl_16 (AK), MeganNoll_20 (AK), Misaeng_20 (AK), Moki_16 (AK), MrBoss_20 (AK), MrGloopy_20 (AK), Nancia_16 (AK), OMalley_16 (AK), ObiToo_18 (AZ1), OurGirlNessie_16 (AK), Oxynfrius_20 (AK), PandaPo_18 (AZ1), PartyCup_20 (AK), PinkFriday_16 (AK), PitaDog_16 (AK), Potatoes_20 (AK), Preamble_16 (AK), Pumancara_16 (AK), RAP15_20 (AK), RcigaStruga_20 (AK), Riovina_16 (AK), Riverdale_20 (AK), Rozby_20 (AK), Savage2526_20 (AK), Scuttle_20 (AK), Sergei_16 (AK), Shambre1_19 (singleton), Sue2_18 (AZ1), Supakev_16 (AK), Suppi_20 (AK), TattModd_20 (AK), Temper16_16 (AK), Urla_16 (AK), VResidence_18 (AZ1), Vallejo_20 (AK), Vulture_16 (AK), Wawa_20 (AK), Wayne_20 (AK), Wildwest_19 (AZ1), WonderBoy_16 (AK), Zorro_20 (AK),

Start 68:
• Found in 20 of 385 (5.2%) of genes in pham
• Manual Annotations of this start: 1 of 343
• Called 5.0% of time when present
• Phage (with cluster) where this start called: SpecialK_19 (AZ5),

Start 69:
• Found in 103 of 385 (26.8%) of genes in pham
• Manual Annotations of this start: 15 of 343
• Called 14.6% of time when present
• Phage (with cluster) where this start called: Adolin_18 (AZ1), Aledel_16 (AK), Bennie_16 (AK), ChewChew_16 (AK), Chridison_16 (AK), HeadNerd_16 (AK), IttyBittyPiggy_18 (AZ1), KeAlii_18 (AZ1), Makoto_16 (AK), Maria1952_16 (AK), MissSwiss_18 (AZ1), Pterodactyl_16 (AK), Reedo_18 (AZ1), Snek_18 (AZ3), Tweety19_18 (AZ3),

Start 77:
• Found in 3 of 385 (0.8%) of genes in pham
• Manual Annotations of this start: 2 of 343
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Doedicurus_26 (GJ), OscarSo_29 (GJ),

Start 79:
• Found in 17 of 385 (4.4%) of genes in pham
• Manual Annotations of this start: 1 of 343
• Called 5.9% of time when present
• Phage (with cluster) where this start called: Spartoi_17 (singleton),

Start 80:
• Found in 34 of 385 (8.8%) of genes in pham
• Manual Annotations of this start: 19 of 343
• Called 79.4% of time when present
• Phage (with cluster) where this start called: Abidatro_18 (AS1), Artu_84 (FC), Atuin_88 (FC), Bloom_97 (FC), BooTeria_84 (FC), Chilliams_90 (FC), DunneganBoMo_83 (FC), Ellewin_82 (FC), Emmetator_86 (FC), FloraSnap32_90 (FC), FrostedClock_92 (FC), Galaxy_18 (AS1), GoldenEssence_79 (FC), KSunshine22_88 (FC), Laure_95 (UNK), LeoJr_93 (FC), Mimi_93 (FC), Panchaali_85 (FC), Patbob_92 (FC), Phrampa_85 (FC), Racecar_94 (FC), ReginaGlobina_93 (FC), Rockabye_92 (FC), SJReid_96 (FC), Stewart25555_83 (FC), Talia1610_93 (FC),

WaddleDee_81 (FC),

Start 84:
• Found in 54 of 385 (14.0%) of genes in pham
• Manual Annotations of this start: 3 of 343
• Called 5.6% of time when present
• Phage (with cluster) where this start called: Anatole_17 (BV), B3_17 (BV), E1_17 (BV),

Start 88:
• Found in 32 of 385 (8.3%) of genes in pham
• Manual Annotations of this start: 1 of 343
• Called 3.1% of time when present
• Phage (with cluster) where this start called: Nubia_20 (AK),

Start 98:
• Found in 2 of 385 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 343
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Isperia_25 (GJ),

Start 163:
• Found in 1 of 385 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 343
• Called 100.0% of time when present
• Phage (with cluster) where this start called: OnionKnight_20 (singleton),

Summary by clusters:

There are 35 clusters represented in this pham: FP, FR, singleton, FB, FC, BQ, FF, FG, DV, FJ, AS1, FO, AZ, BB2, BB1, AC, AE, AK, DG2, DG1, AY, UNK, GJ, AZ7, BV, BC1, R, BC2, AZ1, AZ2, AZ3, AZ4, AZ5, AZ6, BC3,

Info for manual annotations of cluster AC:
•Start number 43 was manually annotated 3 times for cluster AC.

Info for manual annotations of cluster AE:
•Start number 36 was manually annotated 3 times for cluster AE.

Info for manual annotations of cluster AK:
•Start number 67 was manually annotated 75 times for cluster AK.
•Start number 69 was manually annotated 8 times for cluster AK.
•Start number 88 was manually annotated 1 time for cluster AK.

Info for manual annotations of cluster AS1:
•Start number 80 was manually annotated 2 times for cluster AS1.

Info for manual annotations of cluster AY:
•Start number 51 was manually annotated 3 times for cluster AY.

Info for manual annotations of cluster AZ:
•Start number 45 was manually annotated 1 time for cluster AZ.

Info for manual annotations of cluster AZ1:
•Start number 45 was manually annotated 37 times for cluster AZ1.
•Start number 67 was manually annotated 7 times for cluster AZ1.
•Start number 69 was manually annotated 5 times for cluster AZ1.

Info for manual annotations of cluster AZ2:
•Start number 45 was manually annotated 4 times for cluster AZ2.

Info for manual annotations of cluster AZ3:
•Start number 69 was manually annotated 2 times for cluster AZ3.

Info for manual annotations of cluster AZ4:
•Start number 46 was manually annotated 8 times for cluster AZ4.

Info for manual annotations of cluster AZ5:
•Start number 45 was manually annotated 15 times for cluster AZ5.
•Start number 68 was manually annotated 1 time for cluster AZ5.

Info for manual annotations of cluster AZ6:
•Start number 45 was manually annotated 1 time for cluster AZ6.

Info for manual annotations of cluster BB1:
•Start number 63 was manually annotated 6 times for cluster BB1.

Info for manual annotations of cluster BB2:
•Start number 59 was manually annotated 2 times for cluster BB2.
•Start number 60 was manually annotated 1 time for cluster BB2.

Info for manual annotations of cluster BC1:
•Start number 62 was manually annotated 7 times for cluster BC1.

Info for manual annotations of cluster BC2:
•Start number 58 was manually annotated 2 times for cluster BC2.

Info for manual annotations of cluster BC3:
•Start number 62 was manually annotated 5 times for cluster BC3.

Info for manual annotations of cluster BQ:
•Start number 57 was manually annotated 1 time for cluster BQ.
•Start number 58 was manually annotated 2 times for cluster BQ.
•Start number 62 was manually annotated 2 times for cluster BQ.

Info for manual annotations of cluster BV:
•Start number 84 was manually annotated 3 times for cluster BV.

Info for manual annotations of cluster DG1:
•Start number 47 was manually annotated 8 times for cluster DG1.

Info for manual annotations of cluster DG2:
•Start number 47 was manually annotated 1 time for cluster DG2.

Info for manual annotations of cluster DV:

•Start number 47 was manually annotated 39 times for cluster DV.
•Start number 52 was manually annotated 1 time for cluster DV.

Info for manual annotations of cluster FB:
•Start number 51 was manually annotated 1 time for cluster FB.

Info for manual annotations of cluster FC:
•Start number 80 was manually annotated 17 times for cluster FC.

Info for manual annotations of cluster FF:
•Start number 49 was manually annotated 23 times for cluster FF.

Info for manual annotations of cluster FG:
•Start number 53 was manually annotated 3 times for cluster FG.
•Start number 54 was manually annotated 1 time for cluster FG.

Info for manual annotations of cluster FJ:
•Start number 49 was manually annotated 2 times for cluster FJ.
•Start number 51 was manually annotated 2 times for cluster FJ.

Info for manual annotations of cluster FO:
•Start number 46 was manually annotated 7 times for cluster FO.

Info for manual annotations of cluster FP:
•Start number 17 was manually annotated 1 time for cluster FP.

Info for manual annotations of cluster FR:
•Start number 49 was manually annotated 1 time for cluster FR.
•Start number 51 was manually annotated 10 times for cluster FR.

Info for manual annotations of cluster GJ:
•Start number 77 was manually annotated 2 times for cluster GJ.
•Start number 98 was manually annotated 1 time for cluster GJ.

Info for manual annotations of cluster R:
•Start number 43 was manually annotated 10 times for cluster R.

Gene Information:

Gene: AEgle_19 Start: 14931, Stop: 16052, Start Num: 45
Candidate Starts for AEgle_19:
(Start: 45 @14931 has 59 MA's), (71, 14991), (92, 15054), (100, 15075), (197, 15339), (262, 15423), (376, 15783), (382, 15801), (408, 15861),

Gene: AGrandiflora_19 Start: 14916, Stop: 16037, Start Num: 45
Candidate Starts for AGrandiflora_19:
(Start: 45 @14916 has 59 MA's), (71, 14976), (92, 15039), (100, 15060), (183, 15273), (197, 15324), (202, 15330), (306, 15552), (376, 15768), (382, 15786), (408, 15846),

Gene: Aaravos_26 Start: 24901, Stop: 26025, Start Num: 47

Candidate Starts for Aaravos_26:
(Start: 47 @24901 has 48 MA's), (48, 24907), (73, 24958), (82, 24982), (108, 25069), (128, 25126), (146, 25171), (165, 25213), (171, 25234), (172, 25237), (196, 25300), (235, 25339), (236, 25342), (275, 25414), (281, 25444), (307, 25525), (318, 25561), (368, 25714), (427, 25894),

Gene: Abidatro_18 Start: 13671, Stop: 14783, Start Num: 80
Candidate Starts for Abidatro_18:
(Start: 80 @13671 has 19 MA's), (89, 13698), (140, 13854), (146, 13869), (162, 13905), (185, 13965), (236, 14082), (241, 14094), (251, 14124), (252, 14127), (307, 14313), (333, 14397), (345, 14442), (347, 14448), (359, 14472), (402, 14586), (409, 14604), (413, 14619), (419, 14643), (423, 14661), (442, 14745),

Gene: AceofSpades_18 Start: 13087, Stop: 14322, Start Num: 46
Candidate Starts for AceofSpades_18:
(Start: 46 @13087 has 15 MA's), (108, 13282), (119, 13306), (208, 13528), (229, 13657), (291, 13813), (321, 13906), (351, 14005), (411, 14161), (431, 14242),

Gene: Adolin_18 Start: 14366, Stop: 15577, Start Num: 69
Candidate Starts for Adolin_18:
(Start: 67 @14363 has 83 MA's), (Start: 69 @14366 has 15 MA's), (101, 14447), (103, 14459), (132, 14531), (138, 14546), (204, 14714), (207, 14720), (212, 14756), (235, 14828), (251, 14900), (262, 14942), (333, 15185), (345, 15230), (428, 15476), (437, 15509), (449, 15560),

Gene: Adumb2043_19 Start: 14930, Stop: 16051, Start Num: 45
Candidate Starts for Adumb2043_19:
(Start: 45 @14930 has 59 MA's), (71, 14990), (92, 15053), (100, 15074), (197, 15338), (262, 15422), (376, 15782), (382, 15800), (408, 15860),

Gene: Agamotto_25 Start: 18268, Stop: 19368, Start Num: 49
Candidate Starts for Agamotto_25:
(Start: 49 @18268 has 26 MA's), (85, 18358), (90, 18376), (112, 18439), (150, 18526), (157, 18541), (192, 18631), (257, 18715), (276, 18778), (277, 18784), (339, 18979), (400, 19156), (451, 19351),

Gene: Aikoy_38 Start: 28234, Stop: 29478, Start Num: 36
Candidate Starts for Aikoy_38:
(31, 28186), (34, 28222), (Start: 36 @28234 has 3 MA's), (73, 28333), (Start: 80 @28351 has 19 MA's), (115, 28468), (142, 28537), (156, 28570), (162, 28579), (170, 28606), (185, 28639), (235, 28714), (279, 28810), (290, 28846), (307, 28900), (314, 28921), (319, 28939), (321, 28945), (323, 28948), (327, 28960), (370, 29092), (372, 29095), (423, 29257), (427, 29269), (430, 29278), (455, 29413), (456, 29455),

Gene: AinMach_18 Start: 14089, Stop: 15219, Start Num: 45
Candidate Starts for AinMach_18:
(Start: 45 @14089 has 59 MA's), (71, 14158), (131, 14341), (162, 14404), (213, 14509), (218, 14524), (291, 14692), (323, 14788), (328, 14803), (329, 14806), (332, 14818), (341, 14854), (351, 14884), (368, 14938), (374, 14947), (439, 15163), (443, 15190),

Gene: Albanese_20 Start: 16081, Stop: 17238, Start Num: 67
Candidate Starts for Albanese_20:
(Start: 67 @16081 has 83 MA's), (Start: 69 @16084 has 15 MA's), (Start: 84 @16105 has 3 MA's), (86, 16111), (Start: 88 @16120 has 1 MA's), (147, 16285), (155, 16306), (250, 16561), (296, 16726), (323, 16807), (333, 16843), (345, 16888), (355, 16912), (380, 16981), (394, 17023), (407, 17047), (435, 17161), (442, 17200), (444, 17206), (446, 17212), (452, 17233),

Gene: Aledel_16 Start: 14404, Stop: 15558, Start Num: 69
Candidate Starts for Aledel_16:
(Start: 67 @14401 has 83 MA's), (Start: 69 @14404 has 15 MA's), (86, 14431), (Start: 88 @14440 has 1 MA's), (97, 14467), (111, 14530), (176, 14677), (250, 14881), (316, 15112), (323, 15127), (345, 15208), (389, 15331), (407, 15367), (408, 15370), (425, 15442), (436, 15487), (452, 15553),

Gene: Alephilan_26 Start: 24820, Stop: 25944, Start Num: 47
Candidate Starts for Alephilan_26:
(Start: 47 @24820 has 48 MA's), (48, 24826), (Start: 52 @24832 has 1 MA's), (73, 24877), (82, 24901), (108, 24988), (128, 25045), (146, 25090), (165, 25132), (172, 25156), (235, 25258), (275, 25333), (281, 25363), (307, 25444), (318, 25480), (368, 25633), (407, 25735), (419, 25783), (427, 25813),

Gene: AllBusiness_26 Start: 20291, Stop: 21394, Start Num: 49
Candidate Starts for AllBusiness_26:
(Start: 49 @20291 has 26 MA's), (78, 20360), (86, 20387), (96, 20420), (114, 20468), (130, 20516), (138, 20534), (151, 20570), (154, 20576), (169, 20618), (288, 20855), (322, 20960), (330, 20978), (339, 21017), (393, 21176), (432, 21305), (449, 21368), (451, 21377),

Gene: Alyssamiracle_29 Start: 23630, Stop: 24754, Start Num: 47
Candidate Starts for Alyssamiracle_29:
(Start: 47 @23630 has 48 MA's), (48, 23636), (Start: 52 @23642 has 1 MA's), (73, 23687), (82, 23711), (108, 23798), (128, 23855), (146, 23900), (165, 23942), (172, 23966), (235, 24068), (275, 24143), (281, 24173), (307, 24254), (318, 24290), (368, 24443), (379, 24476), (427, 24623), (447, 24704),

Gene: Amploria_19 Start: 14930, Stop: 16051, Start Num: 45
Candidate Starts for Amploria_19:
(Start: 45 @14930 has 59 MA's), (71, 14990), (92, 15053), (100, 15074), (197, 15338), (262, 15422), (376, 15782), (382, 15800), (408, 15860),

Gene: Amyev_19 Start: 14951, Stop: 16393, Start Num: 45
Candidate Starts for Amyev_19:
(Start: 45 @14951 has 59 MA's), (71, 15011), (73, 15017), (92, 15074), (100, 15095), (182, 15305), (196, 15353), (216, 15473), (248, 15692), (340, 16022), (376, 16124), (382, 16142), (448, 16361),

Gene: Anatole_17 Start: 13815, Stop: 14933, Start Num: 84
Candidate Starts for Anatole_17:
(81, 13809), (Start: 84 @13815 has 3 MA's), (89, 13833), (92, 13845), (94, 13848), (105, 13890), (107, 13899), (137, 13983), (138, 13986), (139, 13989), (164, 14049), (165, 14052), (187, 14112), (193, 14130), (207, 14160), (219, 14196), (220, 14199), (221, 14202), (224, 14217), (226, 14220), (237, 14247), (242, 14262), (265, 14352), (267, 14361), (283, 14418), (305, 14478), (320, 14517), (326, 14532), (333, 14559), (336, 14571), (367, 14661), (376, 14688), (411, 14772), (430, 14838), (438, 14868), (440, 14877), (444, 14901),

Gene: AnnabelLee_23 Start: 15285, Stop: 16382, Start Num: 51
Candidate Starts for AnnabelLee_23:
(Start: 51 @15285 has 16 MA's), (66, 15327), (85, 15375), (96, 15411), (157, 15558), (192, 15648), (256, 15726), (271, 15777), (322, 15936), (339, 15993), (360, 16053), (400, 16170),

Gene: Aoka_20 Start: 16034, Stop: 17083, Start Num: 46
Candidate Starts for Aoka_20:
(Start: 46 @16034 has 15 MA's), (Start: 88 @16139 has 1 MA's), (153, 16304), (182, 16370), (333, 16700), (343, 16736), (443, 17057),

Gene: Apeppi_26 Start: 24963, Stop: 26087, Start Num: 47
Candidate Starts for Apeppi_26:
(Start: 47 @24963 has 48 MA's), (48, 24969), (73, 25020), (82, 25044), (108, 25131), (128, 25188), (146, 25233), (165, 25275), (171, 25296), (172, 25299), (196, 25362), (235, 25401), (236, 25404), (275, 25476), (281, 25506), (307, 25587), (318, 25623), (368, 25776), (427, 25956),

Gene: AppleCider_20 Start: 16039, Stop: 17196, Start Num: 67
Candidate Starts for AppleCider_20:
(Start: 67 @16039 has 83 MA's), (Start: 69 @16042 has 15 MA's), (97, 16105), (147, 16243), (210, 16408), (292, 16672), (293, 16675), (296, 16684), (323, 16765), (345, 16846), (349, 16858), (379, 16936), (380, 16939), (389, 16969), (407, 17005), (408, 17008), (444, 17164),

Gene: Artu_84 Start: 59098, Stop: 60216, Start Num: 80
Candidate Starts for Artu_84:
(Start: 80 @59098 has 19 MA's), (107, 59191), (147, 59284), (235, 59488), (241, 59503), (275, 59641), (281, 59671), (295, 59716), (296, 59719), (309, 59761), (336, 59845), (347, 59884), (352, 59896), (444, 60193),

Gene: Asa16_19 Start: 14900, Stop: 16021, Start Num: 45
Candidate Starts for Asa16_19:
(Start: 45 @14900 has 59 MA's), (71, 14960), (73, 14966), (92, 15023), (100, 15044), (197, 15308), (382, 15770),

Gene: Ascela_19 Start: 14928, Stop: 16049, Start Num: 45
Candidate Starts for Ascela_19:
(Start: 45 @14928 has 59 MA's), (92, 15051), (100, 15072), (178, 15276), (202, 15342), (382, 15798), (408, 15858),

Gene: Ashes_19 Start: 14619, Stop: 16067, Start Num: 45
Candidate Starts for Ashes_19:
(Start: 45 @14619 has 59 MA's), (Start: 68 @14673 has 1 MA's), (197, 15027), (202, 15033), (305, 15579), (321, 15630), (385, 15825),

Gene: Astralis_26 Start: 23220, Stop: 24344, Start Num: 47
Candidate Starts for Astralis_26:
(Start: 47 @23220 has 48 MA's), (48, 23226), (Start: 52 @23232 has 1 MA's), (73, 23277), (82, 23301), (108, 23388), (128, 23445), (146, 23490), (165, 23532), (172, 23556), (235, 23658), (275, 23733), (281, 23763), (307, 23844), (318, 23880), (368, 24033), (379, 24066), (427, 24213), (447, 24294),

Gene: Attoomi_18 Start: 15464, Stop: 16561, Start Num: 62
Candidate Starts for Attoomi_18:
(Start: 62 @15464 has 15 MA's), (76, 15500), (100, 15575), (106, 15608), (108, 15620), (117, 15653), (119, 15659), (133, 15695), (137, 15704), (141, 15716), (148, 15734), (168, 15785), (169, 15788), (183, 15815), (192, 15845), (233, 15890), (265, 15944), (272, 15965), (275, 15974), (277, 15983), (294, 16043), (305, 16079), (311, 16097), (312, 16100), (316, 16118), (323, 16133), (330, 16154), (332, 16163), (338, 16187), (341, 16199), (376, 16301), (378, 16307), (406, 16379), (436, 16487), (437, 16490), (440, 16502),

Gene: Atuin_88 Start: 61731, Stop: 62849, Start Num: 80
Candidate Starts for Atuin_88:
(Start: 80 @61731 has 19 MA's), (146, 61914), (147, 61917), (230, 62109), (241, 62136), (275, 62274), (281, 62304), (291, 62337), (295, 62349), (296, 62352), (326, 62439), (333, 62466), (336, 62478),

(347, 62517), (376, 62595), (423, 62736), (444, 62826),

Gene: Audell_26 Start: 18579, Stop: 19676, Start Num: 51
Candidate Starts for Audell_26:
(Start: 51 @18579 has 16 MA's), (66, 18621), (85, 18669), (96, 18705), (157, 18852), (192, 18942), (297, 19152), (339, 19287), (391, 19446), (400, 19464), (451, 19659),

Gene: AustinPowers_16 Start: 14402, Stop: 15559, Start Num: 67
Candidate Starts for AustinPowers_16:
(Start: 67 @14402 has 83 MA's), (Start: 69 @14405 has 15 MA's), (86, 14432), (Start: 88 @14441 has 1 MA's), (97, 14468), (105, 14501), (111, 14531), (176, 14678), (250, 14882), (316, 15113), (323, 15128), (345, 15209), (389, 15332), (407, 15368), (408, 15371), (425, 15443), (436, 15488), (452, 15554),

Gene: Austintatious_19 Start: 14189, Stop: 15319, Start Num: 62
Candidate Starts for Austintatious_19:
(12, 13745), (13, 13760), (20, 13847), (22, 13883), (24, 13955), (Start: 62 @14189 has 15 MA's), (106, 14333), (117, 14378), (126, 14402), (133, 14420), (271, 14693), (310, 14822), (311, 14825), (323, 14861), (348, 14951), (354, 14963), (376, 15032), (406, 15110), (436, 15221),

Gene: Avian_26 Start: 23612, Stop: 24736, Start Num: 47
Candidate Starts for Avian_26:
(Start: 47 @23612 has 48 MA's), (48, 23618), (Start: 52 @23624 has 1 MA's), (73, 23669), (82, 23693), (108, 23780), (128, 23837), (146, 23882), (165, 23924), (172, 23948), (235, 24050), (275, 24125), (281, 24155), (307, 24236), (318, 24272), (368, 24425), (379, 24458), (427, 24605), (447, 24686),

Gene: B3_17 Start: 13818, Stop: 14936, Start Num: 84
Candidate Starts for B3_17:
(81, 13812), (Start: 84 @13818 has 3 MA's), (89, 13836), (92, 13848), (94, 13851), (105, 13893), (107, 13902), (137, 13986), (138, 13989), (139, 13992), (164, 14052), (165, 14055), (187, 14115), (193, 14133), (207, 14163), (219, 14199), (220, 14202), (221, 14205), (224, 14220), (226, 14223), (237, 14250), (242, 14265), (265, 14355), (267, 14364), (283, 14421), (305, 14481), (326, 14535), (333, 14562), (336, 14574), (367, 14664), (376, 14691), (411, 14775), (430, 14841), (438, 14871), (440, 14880), (444, 14904),

Gene: Ball_16 Start: 13208, Stop: 14359, Start Num: 67
Candidate Starts for Ball_16:
(Start: 67 @13208 has 83 MA's), (Start: 69 @13211 has 15 MA's), (Start: 88 @13247 has 1 MA's), (99, 13280), (103, 13301), (108, 13325), (111, 13337), (121, 13361), (147, 13412), (236, 13628), (241, 13640), (277, 13772), (296, 13841), (297, 13844), (316, 13913), (333, 13964), (345, 14009), (369, 14072), (389, 14135), (428, 14258), (437, 14291), (439, 14297), (441, 14315), (449, 14342), (452, 14354),

Gene: Beaupre_19 Start: 14620, Stop: 16068, Start Num: 45
Candidate Starts for Beaupre_19:
(Start: 45 @14620 has 59 MA's), (Start: 68 @14674 has 1 MA's), (187, 14998), (197, 15028), (305, 15580), (321, 15631), (385, 15826),

Gene: Beethoven_20 Start: 15985, Stop: 17142, Start Num: 67
Candidate Starts for Beethoven_20:
(Start: 67 @15985 has 83 MA's), (Start: 69 @15988 has 15 MA's), (Start: 84 @16009 has 3 MA's), (105, 16084), (147, 16189), (195, 16312), (236, 16420), (250, 16465), (292, 16618), (302, 16648), (316, 16696), (323, 16711), (333, 16747), (345, 16792), (394, 16927), (407, 16951), (409, 16957),

(442, 17104), (444, 17110), (452, 17137),

Gene: Bennie_16 Start: 14410, Stop: 15564, Start Num: 69
Candidate Starts for Bennie_16:
(Start: 67 @14407 has 83 MA's), (Start: 69 @14410 has 15 MA's), (86, 14440), (97, 14476), (103, 14503), (147, 14614), (155, 14635), (223, 14806), (236, 14845), (249, 14884), (252, 14896), (280, 15004), (305, 15079), (328, 15148), (335, 15178), (345, 15214), (349, 15226), (407, 15373), (425, 15448), (429, 15463), (436, 15493), (442, 15526),

Gene: Berrie_19 Start: 15065, Stop: 16186, Start Num: 45
Candidate Starts for Berrie_19:
(Start: 45 @15065 has 59 MA's), (71, 15125), (73, 15131), (92, 15188), (197, 15473), (202, 15479), (382, 15935), (408, 15995),

Gene: Beyoncage_24 Start: 20204, Stop: 21337, Start Num: 47
Candidate Starts for Beyoncage_24:
(Start: 47 @20204 has 48 MA's), (92, 20321), (100, 20342), (104, 20354), (108, 20375), (110, 20384), (120, 20417), (172, 20546), (197, 20615), (285, 20765), (307, 20834), (315, 20858), (330, 20903), (334, 20921), (340, 20945), (349, 20975), (409, 21131), (411, 21137), (427, 21203), (429, 21209), (437, 21242), (445, 21281),

Gene: BigMack_16 Start: 14394, Stop: 15551, Start Num: 67
Candidate Starts for BigMack_16:
(Start: 67 @14394 has 83 MA's), (Start: 69 @14397 has 15 MA's), (86, 14427), (97, 14463), (103, 14490), (147, 14601), (155, 14622), (217, 14775), (223, 14793), (236, 14832), (249, 14871), (252, 14883), (280, 14991), (305, 15066), (323, 15120), (328, 15135), (333, 15156), (335, 15165), (345, 15201), (349, 15213), (407, 15360), (425, 15435), (429, 15450), (436, 15480), (442, 15513), (451, 15543),

Gene: BigSherm_27 Start: 20045, Stop: 21148, Start Num: 49
Candidate Starts for BigSherm_27:
(Start: 49 @20045 has 26 MA's), (78, 20114), (86, 20141), (96, 20174), (114, 20222), (130, 20270), (138, 20288), (169, 20372), (297, 20633), (322, 20714), (330, 20732), (339, 20771), (393, 20930), (432, 21059), (449, 21122), (451, 21131),

Gene: Bioscum_19 Start: 14225, Stop: 15355, Start Num: 62
Candidate Starts for Bioscum_19:
(12, 13781), (13, 13796), (20, 13883), (22, 13919), (24, 13991), (Start: 62 @14225 has 15 MA's), (106, 14369), (117, 14414), (126, 14438), (133, 14456), (310, 14858), (311, 14861), (348, 14987), (354, 14999), (376, 15068), (406, 15146),

Gene: BirthdayBoy_30 Start: 25673, Stop: 26797, Start Num: 47
Candidate Starts for BirthdayBoy_30:
(Start: 47 @25673 has 48 MA's), (48, 25679), (Start: 52 @25685 has 1 MA's), (73, 25730), (82, 25754), (108, 25841), (128, 25898), (146, 25943), (165, 25985), (172, 26009), (196, 26072), (235, 26111), (275, 26186), (281, 26216), (307, 26297), (318, 26333), (368, 26486), (427, 26666), (447, 26747),

Gene: BiteSize_24 Start: 20204, Stop: 21337, Start Num: 47
Candidate Starts for BiteSize_24:
(Start: 47 @20204 has 48 MA's), (92, 20321), (100, 20342), (104, 20354), (108, 20375), (110, 20384), (120, 20417), (172, 20546), (197, 20615), (285, 20765), (307, 20834), (315, 20858), (330, 20903), (334, 20921), (340, 20945), (349, 20975), (409, 21131), (411, 21137), (427, 21203), (429, 21209), (437, 21242), (445, 21281),

Gene: Bloom_97 Start: 62603, Stop: 63721, Start Num: 80
Candidate Starts for Bloom_97:
(Start: 80 @62603 has 19 MA's), (146, 62786), (147, 62789), (203, 62924), (221, 62948), (230, 62978), (241, 63005), (251, 63053), (281, 63176), (291, 63209), (295, 63221), (326, 63311), (329, 63320), (336, 63350), (347, 63389), (352, 63401), (383, 63488), (389, 63509), (444, 63698),

Gene: Bodacious_16 Start: 14407, Stop: 15561, Start Num: 67
Candidate Starts for Bodacious_16:
(Start: 67 @14407 has 83 MA's), (Start: 69 @14410 has 15 MA's), (86, 14437), (103, 14500), (113, 14542), (124, 14566), (147, 14611), (236, 14842), (249, 14881), (252, 14893), (280, 15001), (293, 15043), (305, 15076), (323, 15130), (335, 15175), (345, 15211), (349, 15223), (379, 15301), (407, 15370), (425, 15445), (429, 15460), (436, 15490), (442, 15523), (451, 15553),

Gene: BooTeria_84 Start: 59166, Stop: 60284, Start Num: 80
Candidate Starts for BooTeria_84:
(Start: 80 @59166 has 19 MA's), (107, 59259), (147, 59352), (235, 59556), (241, 59571), (243, 59592), (275, 59709), (281, 59739), (295, 59784), (296, 59787), (309, 59829), (336, 59913), (347, 59952), (352, 59964), (444, 60261),

Gene: BrotherBLo_20 Start: 15991, Stop: 17148, Start Num: 67
Candidate Starts for BrotherBLo_20:
(Start: 67 @15991 has 83 MA's), (Start: 69 @15994 has 15 MA's), (Start: 84 @16015 has 3 MA's), (105, 16090), (124, 16150), (147, 16195), (155, 16216), (181, 16273), (195, 16318), (236, 16426), (250, 16471), (292, 16624), (302, 16654), (316, 16702), (323, 16717), (333, 16753), (345, 16798), (394, 16933), (407, 16957), (409, 16963), (442, 17110), (444, 17116), (452, 17143),

Gene: CallieOMalley_20 Start: 16039, Stop: 17196, Start Num: 67
Candidate Starts for CallieOMalley_20:
(Start: 67 @16039 has 83 MA's), (Start: 69 @16042 has 15 MA's), (97, 16105), (147, 16243), (210, 16408), (292, 16672), (293, 16675), (296, 16684), (323, 16765), (345, 16846), (349, 16858), (379, 16936), (380, 16939), (389, 16969), (407, 17005), (444, 17164),

Gene: Candle_29 Start: 23449, Stop: 24636, Start Num: 43
Candidate Starts for Candle_29:
(28, 23344), (29, 23350), (Start: 43 @23449 has 13 MA's), (50, 23476), (Start: 52 @23479 has 1 MA's), (75, 23524), (Start: 79 @23536 has 1 MA's), (82, 23545), (128, 23710), (172, 23821), (183, 23839), (208, 23917), (225, 23926), (235, 23941), (318, 24163), (323, 24175), (368, 24316), (370, 24319), (408, 24424), (419, 24469), (427, 24499), (433, 24523), (436, 24535), (437, 24538), (448, 24586), (454, 24625),

Gene: Canowicakte_20 Start: 16074, Stop: 17231, Start Num: 67
Candidate Starts for Canowicakte_20:
(Start: 67 @16074 has 83 MA's), (Start: 69 @16077 has 15 MA's), (97, 16140), (147, 16278), (210, 16443), (292, 16707), (293, 16710), (296, 16719), (323, 16800), (345, 16881), (349, 16893), (379, 16971), (380, 16974), (389, 17004), (407, 17040), (444, 17199),

Gene: Cappuccino_19 Start: 14527, Stop: 15975, Start Num: 45
Candidate Starts for Cappuccino_19:
(Start: 45 @14527 has 59 MA's), (Start: 68 @14581 has 1 MA's), (187, 14905), (197, 14935), (305, 15487), (385, 15733),

Gene: CardboardBox_24 Start: 15285, Stop: 16382, Start Num: 51

Candidate Starts for CardboardBox_24:
(Start: 51 @15285 has 16 MA's), (66, 15327), (85, 15375), (96, 15411), (157, 15558), (192, 15648), (256, 15726), (271, 15777), (322, 15936), (339, 15993), (360, 16053), (400, 16170),

Gene: Carpal_20 Start: 15992, Stop: 17149, Start Num: 67
Candidate Starts for Carpal_20:
(Start: 67 @15992 has 83 MA's), (Start: 69 @15995 has 15 MA's), (Start: 84 @16016 has 3 MA's), (105, 16091), (124, 16151), (147, 16196), (155, 16217), (185, 16289), (195, 16319), (210, 16361), (236, 16427), (250, 16472), (292, 16625), (302, 16655), (316, 16703), (323, 16718), (333, 16754), (345, 16799), (394, 16934), (407, 16958), (409, 16964), (442, 17111), (444, 17117), (452, 17144),

Gene: Cassia_19 Start: 15026, Stop: 16147, Start Num: 45
Candidate Starts for Cassia_19:
(Start: 45 @15026 has 59 MA's), (97, 15161), (100, 15170), (128, 15260), (197, 15434), (382, 15896),

Gene: ChamoyPickle_24 Start: 15285, Stop: 16382, Start Num: 51
Candidate Starts for ChamoyPickle_24:
(Start: 51 @15285 has 16 MA's), (66, 15327), (85, 15375), (96, 15411), (157, 15558), (192, 15648), (256, 15726), (271, 15777), (322, 15936), (339, 15993), (360, 16053), (400, 16170),

Gene: Charminar_26 Start: 23223, Stop: 24347, Start Num: 47
Candidate Starts for Charminar_26:
(Start: 47 @23223 has 48 MA's), (48, 23229), (Start: 52 @23235 has 1 MA's), (73, 23280), (82, 23304), (108, 23391), (128, 23448), (146, 23493), (165, 23535), (172, 23559), (235, 23661), (275, 23736), (281, 23766), (307, 23847), (318, 23883), (368, 24036), (379, 24069), (427, 24216), (447, 24297),

Gene: ChewChew_16 Start: 14409, Stop: 15560, Start Num: 69
Candidate Starts for ChewChew_16:
(Start: 67 @14406 has 83 MA's), (Start: 69 @14409 has 15 MA's), (86, 14436), (103, 14499), (113, 14541), (124, 14565), (147, 14610), (236, 14841), (249, 14880), (252, 14892), (280, 15000), (293, 15042), (305, 15075), (323, 15129), (335, 15174), (345, 15210), (349, 15222), (379, 15300), (407, 15369), (425, 15444), (429, 15459), (436, 15489), (442, 15522), (451, 15552),

Gene: Chilliams_90 Start: 62997, Stop: 64109, Start Num: 80
Candidate Starts for Chilliams_90:
(Start: 80 @62997 has 19 MA's), (166, 63225), (181, 63255), (235, 63384), (239, 63393), (241, 63399), (281, 63564), (286, 63579), (287, 63582), (295, 63609), (328, 63708), (349, 63786), (352, 63792), (366, 63828), (429, 64020), (435, 64041), (444, 64086),

Gene: ChipsNGuac_23 Start: 15285, Stop: 16382, Start Num: 51
Candidate Starts for ChipsNGuac_23:
(Start: 51 @15285 has 16 MA's), (66, 15327), (85, 15375), (96, 15411), (157, 15558), (192, 15648), (256, 15726), (271, 15777), (322, 15936), (339, 15993), (360, 16053), (400, 16170),

Gene: Cholula_20 Start: 16037, Stop: 17194, Start Num: 67
Candidate Starts for Cholula_20:
(Start: 67 @16037 has 83 MA's), (Start: 69 @16040 has 15 MA's), (Start: 84 @16061 has 3 MA's), (86, 16067), (105, 16136), (147, 16241), (185, 16334), (195, 16364), (236, 16472), (250, 16517), (292, 16670), (302, 16700), (316, 16748), (323, 16763), (333, 16799), (345, 16844), (394, 16979), (407, 17003), (428, 17090), (442, 17156), (444, 17162), (452, 17189),

Gene: Chridison_16 Start: 14405, Stop: 15559, Start Num: 69
Candidate Starts for Chridison_16:

(Start: 67 @14402 has 83 MA's), (Start: 69 @14405 has 15 MA's), (86, 14432), (Start: 88 @14441 has 1 MA's), (97, 14468), (111, 14531), (176, 14678), (250, 14882), (316, 15113), (323, 15128), (345, 15209), (389, 15332), (407, 15368), (408, 15371), (425, 15443), (436, 15488), (452, 15554),

Gene: Christian_16 Start: 14407, Stop: 15561, Start Num: 67
Candidate Starts for Christian_16:
(Start: 67 @14407 has 83 MA's), (Start: 69 @14410 has 15 MA's), (86, 14437), (103, 14500), (113, 14542), (124, 14566), (147, 14611), (236, 14842), (249, 14881), (252, 14893), (280, 15001), (293, 15043), (305, 15076), (323, 15130), (335, 15175), (345, 15211), (349, 15223), (379, 15301), (382, 15310), (407, 15370), (425, 15445), (429, 15460), (436, 15490), (442, 15523), (451, 15553),

Gene: Cole_25 Start: 19792, Stop: 20895, Start Num: 49
Candidate Starts for Cole_25:
(Start: 49 @19792 has 26 MA's), (78, 19861), (86, 19888), (96, 19921), (114, 19969), (130, 20017), (138, 20035), (169, 20119), (297, 20380), (322, 20461), (330, 20479), (339, 20518), (393, 20677), (432, 20806), (449, 20869), (451, 20878),

Gene: Community_19 Start: 16147, Stop: 17589, Start Num: 45
Candidate Starts for Community_19:
(Start: 45 @16147 has 59 MA's), (71, 16207), (73, 16213), (92, 16270), (182, 16501), (202, 16561), (245, 16855), (246, 16876), (382, 17338), (410, 17404),

Gene: Crewmate_19 Start: 14349, Stop: 15560, Start Num: 67
Candidate Starts for Crewmate_19:
(Start: 67 @14349 has 83 MA's), (Start: 69 @14352 has 15 MA's), (132, 14514), (138, 14529), (147, 14553), (211, 14733), (220, 14766), (292, 15033), (324, 15135), (333, 15168), (345, 15213), (428, 15459), (437, 15492), (439, 15498), (446, 15534), (449, 15543),

Gene: CristinaYang_16 Start: 14407, Stop: 15561, Start Num: 67
Candidate Starts for CristinaYang_16:
(Start: 67 @14407 has 83 MA's), (Start: 69 @14410 has 15 MA's), (86, 14437), (103, 14500), (113, 14542), (124, 14566), (147, 14611), (236, 14842), (249, 14881), (252, 14893), (280, 15001), (293, 15043), (305, 15076), (323, 15130), (335, 15175), (345, 15211), (349, 15223), (379, 15301), (407, 15370), (425, 15445), (429, 15460), (436, 15490), (442, 15523), (451, 15553),

Gene: Cuke_22 Start: 19244, Stop: 20422, Start Num: 43
Candidate Starts for Cuke_22:
(41, 19232), (Start: 43 @19244 has 13 MA's), (50, 19271), (56, 19283), (65, 19298), (Start: 79 @19331 has 1 MA's), (101, 19400), (128, 19505), (142, 19541), (235, 19718), (281, 19823), (318, 19940), (323, 19952), (370, 20096), (427, 20273), (437, 20312), (438, 20315), (443, 20345), (448, 20360),

Gene: Cyan_19 Start: 14919, Stop: 16040, Start Num: 45
Candidate Starts for Cyan_19:
(Start: 45 @14919 has 59 MA's), (71, 14979), (92, 15042), (100, 15063), (183, 15276), (197, 15327), (202, 15333), (306, 15555), (376, 15771), (382, 15789), (408, 15849),

Gene: DaRealMyers_19 Start: 14650, Stop: 15747, Start Num: 62
Candidate Starts for DaRealMyers_19:
(Start: 62 @14650 has 15 MA's), (117, 14839), (169, 14974), (187, 15019), (191, 15028), (196, 15040), (311, 15280), (348, 15406), (376, 15484), (409, 15568), (410, 15571), (439, 15679), (451, 15730),

Gene: Daiboju_16 Start: 14410, Stop: 15567, Start Num: 67
Candidate Starts for Daiboju_16:

(Start: 67 @14410 has 83 MA's), (Start: 69 @14413 has 15 MA's), (Start: 84 @14434 has 3 MA's), (86, 14440), (Start: 88 @14449 has 1 MA's), (97, 14476), (147, 14614), (176, 14686), (250, 14890), (296, 15055), (316, 15121), (345, 15217), (385, 15325), (389, 15340), (396, 15355), (407, 15376), (409, 15382), (425, 15451), (436, 15496), (452, 15562),

Gene: Darolandstone_19 Start: 14810, Stop: 15910, Start Num: 58
Candidate Starts for Darolandstone_19:
(8, 14216), (10, 14333), (16, 14420), (23, 14534), (27, 14633), (33, 14729), (50, 14795), (Start: 58 @14810 has 4 MA's), (102, 14939), (106, 14960), (168, 15137), (257, 15266), (299, 15401), (400, 15713), (436, 15836), (440, 15851), (451, 15896),

Gene: DaviePasture_29 Start: 25439, Stop: 26563, Start Num: 47
Candidate Starts for DaviePasture_29:
(Start: 47 @25439 has 48 MA's), (48, 25445), (Start: 52 @25451 has 1 MA's), (73, 25496), (82, 25520), (108, 25607), (128, 25664), (146, 25709), (171, 25772), (172, 25775), (196, 25838), (235, 25877), (236, 25880), (275, 25952), (281, 25982), (307, 26063), (318, 26099), (368, 26252), (395, 26333), (407, 26354), (427, 26432), (447, 26513),

Gene: Dino_20 Start: 15990, Stop: 17147, Start Num: 67
Candidate Starts for Dino_20:
(Start: 67 @15990 has 83 MA's), (Start: 69 @15993 has 15 MA's), (Start: 84 @16014 has 3 MA's), (105, 16089), (124, 16149), (147, 16194), (155, 16215), (185, 16287), (195, 16317), (210, 16359), (236, 16425), (250, 16470), (292, 16623), (302, 16653), (316, 16701), (323, 16716), (333, 16752), (345, 16797), (394, 16932), (407, 16956), (428, 17043), (442, 17109), (444, 17115), (452, 17142),

Gene: Dirtdigger_27 Start: 19865, Stop: 20968, Start Num: 49
Candidate Starts for Dirtdigger_27:
(Start: 49 @19865 has 26 MA's), (78, 19934), (86, 19961), (96, 19994), (114, 20042), (130, 20090), (151, 20144), (288, 20429), (322, 20534), (330, 20552), (339, 20591), (393, 20750), (432, 20879), (449, 20942), (451, 20951),

Gene: Djokovic_24 Start: 20204, Stop: 21337, Start Num: 47
Candidate Starts for Djokovic_24:
(Start: 47 @20204 has 48 MA's), (92, 20321), (100, 20342), (104, 20354), (108, 20375), (110, 20384), (120, 20417), (172, 20546), (197, 20615), (285, 20765), (307, 20834), (315, 20858), (330, 20903), (334, 20921), (340, 20945), (349, 20975), (409, 21131), (411, 21137), (427, 21203), (429, 21209), (437, 21242), (445, 21281),

Gene: Doedicurus_26 Start: 17944, Stop: 19098, Start Num: 77
Candidate Starts for Doedicurus_26:
(Start: 77 @17944 has 2 MA's), (Start: 98 @18007 has 1 MA's), (111, 18067), (143, 18136), (185, 18238), (265, 18490), (296, 18598), (313, 18646), (378, 18844), (388, 18877), (448, 19081),

Gene: Donatella_26 Start: 20256, Stop: 21359, Start Num: 49
Candidate Starts for Donatella_26:
(Start: 49 @20256 has 26 MA's), (78, 20325), (86, 20352), (96, 20385), (114, 20433), (130, 20481), (151, 20535), (169, 20583), (322, 20925), (330, 20943), (339, 20982), (393, 21141), (406, 21168), (432, 21270), (449, 21333), (451, 21342),

Gene: Donkey_19 Start: 14527, Stop: 15975, Start Num: 45
Candidate Starts for Donkey_19:
(Start: 45 @14527 has 59 MA's), (Start: 68 @14581 has 1 MA's), (187, 14905), (197, 14935), (305, 15487), (385, 15733),

Gene: DoobyDoo_28 Start: 24595, Stop: 25719, Start Num: 47
Candidate Starts for DoobyDoo_28:
(Start: 47 @24595 has 48 MA's), (48, 24601), (Start: 52 @24607 has 1 MA's), (73, 24652), (82, 24676), (108, 24763), (128, 24820), (146, 24865), (165, 24907), (172, 24931), (196, 24994), (235, 25033), (275, 25108), (281, 25138), (318, 25255), (368, 25408), (395, 25489), (407, 25510), (427, 25588), (447, 25669),

Gene: DrManhattan_18 Start: 14353, Stop: 15567, Start Num: 67
Candidate Starts for DrManhattan_18:
(Start: 67 @14353 has 83 MA's), (Start: 69 @14356 has 15 MA's), (101, 14437), (103, 14449), (132, 14521), (138, 14536), (204, 14704), (207, 14710), (212, 14746), (235, 14818), (251, 14890), (262, 14932), (333, 15175), (345, 15220), (428, 15466), (437, 15499), (449, 15550),

Gene: DrRobert_16 Start: 14407, Stop: 15561, Start Num: 67
Candidate Starts for DrRobert_16:
(Start: 67 @14407 has 83 MA's), (Start: 69 @14410 has 15 MA's), (86, 14437), (103, 14500), (113, 14542), (124, 14566), (147, 14611), (236, 14842), (249, 14881), (252, 14893), (280, 15001), (293, 15043), (305, 15076), (323, 15130), (335, 15175), (345, 15211), (349, 15223), (379, 15301), (382, 15310), (407, 15370), (425, 15445), (429, 15460), (436, 15490), (442, 15523), (451, 15553),

Gene: DrSierra_18 Start: 14444, Stop: 15658, Start Num: 67
Candidate Starts for DrSierra_18:
(Start: 67 @14444 has 83 MA's), (Start: 69 @14447 has 15 MA's), (97, 14513), (138, 14627), (204, 14795), (207, 14801), (212, 14837), (262, 15023), (280, 15092), (296, 15143), (333, 15266), (345, 15311), (359, 15344), (381, 15407), (428, 15557), (437, 15590),

Gene: DreamEater_23 Start: 19458, Stop: 20582, Start Num: 51
Candidate Starts for DreamEater_23:
(Start: 51 @19458 has 16 MA's), (86, 19551), (114, 19659), (116, 19668), (121, 19683), (133, 19710), (138, 19722), (139, 19725), (151, 19758), (157, 19770), (167, 19800), (187, 19848), (192, 19860), (233, 19908), (277, 20004), (288, 20043), (297, 20067), (322, 20148), (339, 20205), (393, 20364), (401, 20379), (447, 20550),

Gene: DreamTeam_16 Start: 14447, Stop: 15601, Start Num: 67
Candidate Starts for DreamTeam_16:
(Start: 67 @14447 has 83 MA's), (Start: 69 @14450 has 15 MA's), (Start: 84 @14471 has 3 MA's), (103, 14540), (147, 14651), (155, 14672), (217, 14825), (228, 14858), (236, 14882), (249, 14921), (252, 14933), (305, 15116), (316, 15155), (328, 15185), (335, 15215), (345, 15251), (407, 15410), (429, 15500), (436, 15530), (452, 15596),

Gene: DumpTruck_28 Start: 24905, Stop: 26032, Start Num: 47
Candidate Starts for DumpTruck_28:
(Start: 47 @24905 has 48 MA's), (82, 24986), (115, 25097), (128, 25130), (146, 25175), (165, 25217), (172, 25241), (196, 25304), (235, 25343), (292, 25481), (311, 25541), (312, 25544), (318, 25565), (328, 25592), (341, 25643), (368, 25718), (419, 25868), (427, 25898), (431, 25916), (445, 25973),

Gene: DunneganBoMo_83 Start: 58597, Stop: 59715, Start Num: 80
Candidate Starts for DunneganBoMo_83:
(Start: 80 @58597 has 19 MA's), (107, 58690), (147, 58783), (235, 58987), (241, 59002), (275, 59140), (281, 59170), (295, 59215), (296, 59218), (309, 59260), (336, 59344), (347, 59383), (352, 59395), (444, 59692),

Gene: E1_17 Start: 13815, Stop: 14933, Start Num: 84
Candidate Starts for E1_17:
(81, 13809), (Start: 84 @13815 has 3 MA's), (89, 13833), (92, 13845), (94, 13848), (105, 13890), (107, 13899), (137, 13983), (138, 13986), (139, 13989), (164, 14049), (165, 14052), (187, 14112), (193, 14130), (207, 14160), (219, 14196), (220, 14199), (221, 14202), (224, 14217), (226, 14220), (237, 14247), (242, 14262), (265, 14352), (267, 14361), (283, 14418), (305, 14478), (320, 14517), (326, 14532), (333, 14559), (336, 14571), (367, 14661), (376, 14688), (411, 14772), (430, 14838), (438, 14868), (440, 14877), (444, 14901),

Gene: Elesar_26 Start: 20038, Stop: 21141, Start Num: 49
Candidate Starts for Elesar_26:
(Start: 49 @20038 has 26 MA's), (78, 20107), (86, 20134), (96, 20167), (114, 20215), (130, 20263), (138, 20281), (151, 20317), (154, 20323), (169, 20365), (297, 20626), (322, 20707), (330, 20725), (339, 20764), (393, 20923), (432, 21052), (449, 21115), (451, 21124),

Gene: Elezi_19 Start: 14901, Stop: 16022, Start Num: 45
Candidate Starts for Elezi_19:
(Start: 45 @14901 has 59 MA's), (71, 14961), (73, 14967), (92, 15024), (100, 15045), (197, 15309), (382, 15771),

Gene: Ellewin_82 Start: 58177, Stop: 59295, Start Num: 80
Candidate Starts for Ellewin_82:
(Start: 80 @58177 has 19 MA's), (107, 58270), (147, 58363), (181, 58435), (193, 58477), (241, 58582), (275, 58720), (281, 58750), (295, 58795), (296, 58798), (309, 58840), (329, 58894), (336, 58924), (347, 58963), (352, 58975), (444, 59272),

Gene: Emmetator_86 Start: 59431, Stop: 60549, Start Num: 80
Candidate Starts for Emmetator_86:
(Start: 80 @59431 has 19 MA's), (107, 59524), (147, 59617), (235, 59821), (241, 59836), (275, 59974), (281, 60004), (295, 60049), (296, 60052), (309, 60094), (336, 60178), (347, 60217), (352, 60229), (444, 60526),

Gene: Emotion_18 Start: 13147, Stop: 14427, Start Num: 46
Candidate Starts for Emotion_18:
(Start: 46 @13147 has 15 MA's), (100, 13297), (291, 13915), (321, 14008), (351, 14107),

Gene: Eraser_19 Start: 14901, Stop: 16022, Start Num: 45
Candidate Starts for Eraser_19:
(Start: 45 @14901 has 59 MA's), (71, 14961), (73, 14967), (92, 15024), (100, 15045), (197, 15309), (382, 15771),

Gene: Erutan_29 Start: 25117, Stop: 26241, Start Num: 47
Candidate Starts for Erutan_29:
(Start: 47 @25117 has 48 MA's), (48, 25123), (73, 25174), (82, 25198), (108, 25285), (128, 25342), (146, 25387), (165, 25429), (172, 25453), (235, 25555), (275, 25630), (281, 25660), (307, 25741), (318, 25777), (368, 25930), (427, 26110), (447, 26191),

Gene: EstebanJulior_16 Start: 14415, Stop: 15572, Start Num: 67
Candidate Starts for EstebanJulior_16:
(Start: 67 @14415 has 83 MA's), (Start: 69 @14418 has 15 MA's), (86, 14445), (113, 14550), (147, 14619), (210, 14784), (217, 14793), (223, 14811), (228, 14826), (333, 15177), (335, 15186), (345, 15222), (381, 15318), (394, 15357), (407, 15381), (437, 15504), (444, 15540), (452, 15567),

Gene: Eunoia_16 Start: 14401, Stop: 15558, Start Num: 67
Candidate Starts for Eunoia_16:
(Start: 67 @14401 has 83 MA's), (Start: 69 @14404 has 15 MA's), (86, 14431), (Start: 88 @14440 has 1 MA's), (97, 14467), (111, 14530), (176, 14677), (250, 14881), (316, 15112), (323, 15127), (345, 15208), (389, 15331), (407, 15367), (408, 15370), (425, 15442), (436, 15487), (452, 15553),

Gene: Euratis_15 Start: 12352, Stop: 13437, Start Num: 63
Candidate Starts for Euratis_15:
(Start: 63 @12352 has 6 MA's), (72, 12376), (Start: 84 @12409 has 3 MA's), (111, 12502), (118, 12526), (132, 12562), (150, 12601), (184, 12682), (263, 12808), (327, 13009), (346, 13072), (376, 13156), (397, 13216), (406, 13234), (409, 13240), (412, 13252), (422, 13294), (429, 13321), (432, 13336), (451, 13411),

Gene: EvePickles_26 Start: 19313, Stop: 20437, Start Num: 51
Candidate Starts for EvePickles_26:
(Start: 51 @19313 has 16 MA's), (78, 19379), (86, 19406), (96, 19439), (114, 19514), (116, 19523), (138, 19577), (151, 19613), (169, 19661), (192, 19715), (233, 19763), (236, 19772), (277, 19859), (288, 19898), (317, 19991), (322, 20003), (339, 20060), (344, 20078), (393, 20219),

Gene: EvenBluerMoon_20 Start: 16069, Stop: 17118, Start Num: 46
Candidate Starts for EvenBluerMoon_20:
(Start: 46 @16069 has 15 MA's), (Start: 88 @16174 has 1 MA's), (153, 16339), (182, 16405), (333, 16735), (343, 16771), (443, 17092),

Gene: Exile_18 Start: 15565, Stop: 16650, Start Num: 45
Candidate Starts for Exile_18:
(Start: 45 @15565 has 59 MA's), (64, 15619), (162, 15877), (178, 15919), (295, 16138), (351, 16315), (368, 16360), (384, 16408), (439, 16585), (443, 16612), (452, 16642),

Gene: Ezurina_22 Start: 15772, Stop: 16866, Start Num: 51
Candidate Starts for Ezurina_22:
(Start: 51 @15772 has 16 MA's), (61, 15799), (85, 15862), (90, 15880), (115, 15952), (147, 16021), (169, 16081), (197, 16153), (238, 16201), (271, 16264), (301, 16354), (314, 16402), (339, 16483), (361, 16543), (366, 16561), (400, 16654), (423, 16735), (426, 16744), (451, 16849),

Gene: Faja_26 Start: 19207, Stop: 20331, Start Num: 51
Candidate Starts for Faja_26:
(Start: 51 @19207 has 16 MA's), (56, 19225), (78, 19273), (86, 19300), (114, 19408), (116, 19417), (138, 19471), (154, 19513), (187, 19597), (192, 19609), (233, 19657), (271, 19732), (277, 19753), (288, 19792), (308, 19855), (322, 19897), (339, 19954), (341, 19960), (344, 19972), (393, 20113), (447, 20299),

Gene: FloraSnap32_90 Start: 61643, Stop: 62761, Start Num: 80
Candidate Starts for FloraSnap32_90:
(Start: 80 @61643 has 19 MA's), (146, 61826), (147, 61829), (203, 61964), (221, 61988), (230, 62018), (241, 62045), (251, 62093), (281, 62216), (291, 62249), (295, 62261), (326, 62351), (329, 62360), (336, 62390), (347, 62429), (352, 62441), (383, 62528), (389, 62549), (444, 62738),

Gene: Fluke_20 Start: 16033, Stop: 17190, Start Num: 67
Candidate Starts for Fluke_20:
(Start: 67 @16033 has 83 MA's), (Start: 69 @16036 has 15 MA's), (Start: 84 @16057 has 3 MA's), (105, 16132), (147, 16237), (155, 16258), (195, 16360), (236, 16468), (250, 16513), (292, 16666), (302, 16696), (316, 16744), (333, 16795), (345, 16840), (394, 16975), (407, 16999), (428, 17086),

(442, 17152), (444, 17158), (452, 17185),

Gene: Flutur_19 Start: 14919, Stop: 16040, Start Num: 45
Candidate Starts for Flutur_19:
(Start: 45 @14919 has 59 MA's), (71, 14979), (92, 15042), (100, 15063), (183, 15276), (197, 15327), (202, 15333), (306, 15555), (376, 15771), (382, 15789), (408, 15849),

Gene: Fowlmouth_23 Start: 19374, Stop: 20546, Start Num: 43
Candidate Starts for Fowlmouth_23:
(41, 19362), (Start: 43 @19374 has 13 MA's), (72, 19443), (Start: 80 @19464 has 19 MA's), (128, 19635), (142, 19671), (183, 19764), (202, 19821), (235, 19848), (260, 19881), (273, 19917), (281, 19953), (314, 20055), (318, 20070), (370, 20226), (427, 20403), (430, 20412), (431, 20421), (437, 20442), (438, 20445), (448, 20490),

Gene: FrostedClock_92 Start: 62091, Stop: 63209, Start Num: 80
Candidate Starts for FrostedClock_92:
(Start: 80 @62091 has 19 MA's), (146, 62274), (147, 62277), (203, 62412), (221, 62436), (230, 62466), (241, 62493), (251, 62541), (281, 62664), (291, 62697), (295, 62709), (326, 62799), (329, 62808), (336, 62838), (347, 62877), (352, 62889), (383, 62976), (389, 62997), (444, 63186),

Gene: Fulcrum_30 Start: 25641, Stop: 26765, Start Num: 47
Candidate Starts for Fulcrum_30:
(Start: 47 @25641 has 48 MA's), (48, 25647), (Start: 52 @25653 has 1 MA's), (73, 25698), (82, 25722), (108, 25809), (128, 25866), (146, 25911), (165, 25953), (172, 25977), (196, 26040), (235, 26079), (275, 26154), (281, 26184), (307, 26265), (318, 26301), (368, 26454), (395, 26535), (407, 26556), (427, 26634), (447, 26715),

Gene: GOATification_30 Start: 25641, Stop: 26765, Start Num: 47
Candidate Starts for GOATification_30:
(Start: 47 @25641 has 48 MA's), (48, 25647), (Start: 52 @25653 has 1 MA's), (73, 25698), (82, 25722), (108, 25809), (128, 25866), (146, 25911), (165, 25953), (172, 25977), (196, 26040), (235, 26079), (275, 26154), (281, 26184), (307, 26265), (318, 26301), (368, 26454), (395, 26535), (407, 26556), (427, 26634), (447, 26715),

Gene: GUPitcher_24 Start: 18871, Stop: 20004, Start Num: 49
Candidate Starts for GUPitcher_24:
(Start: 49 @18871 has 26 MA's), (78, 18940), (86, 18967), (114, 19075), (116, 19084), (118, 19090), (138, 19141), (169, 19225), (192, 19279), (233, 19330), (271, 19405), (277, 19426), (288, 19465), (297, 19489), (322, 19570), (339, 19627), (341, 19633), (344, 19645), (393, 19786),

Gene: Galactica_23 Start: 20117, Stop: 21220, Start Num: 58
Candidate Starts for Galactica_23:
(Start: 58 @20117 has 4 MA's), (Start: 62 @20123 has 15 MA's), (108, 20279), (119, 20318), (120, 20321), (282, 20666), (299, 20708), (311, 20753), (348, 20879), (387, 20990), (408, 21038), (431, 21128),

Gene: Galaxy_18 Start: 13677, Stop: 14789, Start Num: 80
Candidate Starts for Galaxy_18:
(Start: 80 @13677 has 19 MA's), (89, 13704), (99, 13734), (110, 13788), (146, 13875), (162, 13911), (185, 13971), (190, 13986), (236, 14088), (241, 14100), (251, 14130), (252, 14133), (255, 14145), (266, 14190), (296, 14286), (307, 14319), (333, 14403), (345, 14448), (347, 14454), (359, 14478), (402, 14592), (409, 14610), (413, 14625), (419, 14649), (423, 14667), (425, 14676),

Gene: Gambol_19 Start: 14527, Stop: 15975, Start Num: 45
Candidate Starts for Gambol_19:
(Start: 45 @14527 has 59 MA's), (Start: 68 @14581 has 1 MA's), (187, 14905), (197, 14935), (305, 15487), (385, 15733),

Gene: Genamy16_29 Start: 23630, Stop: 24754, Start Num: 47
Candidate Starts for Genamy16_29:
(Start: 47 @23630 has 48 MA's), (48, 23636), (Start: 52 @23642 has 1 MA's), (73, 23687), (82, 23711), (108, 23798), (128, 23855), (146, 23900), (165, 23942), (172, 23966), (235, 24068), (275, 24143), (281, 24173), (307, 24254), (318, 24290), (368, 24443), (379, 24476), (427, 24623), (447, 24704),

Gene: Gerri43_23 Start: 15285, Stop: 16382, Start Num: 51
Candidate Starts for Gerri43_23:
(Start: 51 @15285 has 16 MA's), (66, 15327), (85, 15375), (96, 15411), (157, 15558), (192, 15648), (256, 15726), (271, 15777), (322, 15936), (339, 15993), (360, 16053), (400, 16170),

Gene: Gibbin_30 Start: 25722, Stop: 26846, Start Num: 47
Candidate Starts for Gibbin_30:
(Start: 47 @25722 has 48 MA's), (48, 25728), (Start: 52 @25734 has 1 MA's), (73, 25779), (82, 25803), (108, 25890), (128, 25947), (146, 25992), (165, 26034), (172, 26058), (196, 26121), (235, 26160), (275, 26235), (281, 26265), (307, 26346), (318, 26382), (368, 26535), (395, 26616), (407, 26637), (427, 26715), (447, 26796),

Gene: Gibbzilla_23 Start: 16960, Stop: 18060, Start Num: 51
Candidate Starts for Gibbzilla_23:
(Start: 51 @16960 has 16 MA's), (78, 17026), (86, 17053), (118, 17149), (151, 17233), (158, 17248), (187, 17323), (233, 17383), (236, 17392), (271, 17461), (393, 17842), (401, 17857), (417, 17905), (449, 18034),

Gene: Gilgamesh_70 Start: 64726, Stop: 65949, Start Num: 37
Candidate Starts for Gilgamesh_70:
(Start: 37 @64726 has 1 MA's), (100, 64900), (167, 65080), (232, 65218), (306, 65470), (334, 65560), (341, 65587), (342, 65590), (351, 65617), (368, 65662), (370, 65665), (424, 65833), (427, 65839), (433, 65863), (447, 65920),

Gene: Gimesa_30 Start: 23242, Stop: 24429, Start Num: 43
Candidate Starts for Gimesa_30:
(28, 23137), (29, 23143), (Start: 43 @23242 has 13 MA's), (50, 23269), (Start: 52 @23272 has 1 MA's), (75, 23317), (Start: 79 @23329 has 1 MA's), (82, 23338), (128, 23503), (172, 23614), (183, 23632), (208, 23710), (225, 23719), (235, 23734), (318, 23956), (323, 23968), (368, 24109), (370, 24112), (408, 24217), (419, 24262), (427, 24292), (433, 24316), (436, 24328), (437, 24331), (448, 24379), (454, 24418),

Gene: Giorgio_19 Start: 14627, Stop: 16075, Start Num: 45
Candidate Starts for Giorgio_19:
(Start: 45 @14627 has 59 MA's), (Start: 68 @14681 has 1 MA's), (187, 15005), (197, 15035), (305, 15587), (321, 15638), (385, 15833),

Gene: Gisselle_16 Start: 14447, Stop: 15601, Start Num: 67
Candidate Starts for Gisselle_16:
(Start: 67 @14447 has 83 MA's), (Start: 69 @14450 has 15 MA's), (Start: 84 @14471 has 3 MA's), (103, 14540), (147, 14651), (155, 14672), (217, 14825), (228, 14858), (236, 14882), (249, 14921), (252, 14933), (305, 15116), (316, 15155), (328, 15185), (335, 15215), (345, 15251), (407, 15410),

(429, 15500), (436, 15530), (452, 15596),

Gene: Glenn_20 Start: 16042, Stop: 17199, Start Num: 67
Candidate Starts for Glenn_20:
(Start: 67 @16042 has 83 MA's), (Start: 69 @16045 has 15 MA's), (Start: 84 @16066 has 3 MA's), (105, 16141), (124, 16201), (147, 16246), (155, 16267), (185, 16339), (195, 16369), (236, 16477), (250, 16522), (292, 16675), (302, 16705), (316, 16753), (333, 16804), (345, 16849), (394, 16984), (407, 17008), (428, 17095), (442, 17161), (444, 17167), (452, 17194),

Gene: GoldenEssence_79 Start: 56399, Stop: 57517, Start Num: 80
Candidate Starts for GoldenEssence_79:
(Start: 80 @56399 has 19 MA's), (146, 56582), (147, 56585), (203, 56720), (221, 56744), (230, 56774), (241, 56801), (251, 56849), (281, 56972), (291, 57005), (295, 57017), (326, 57107), (329, 57116), (336, 57146), (347, 57185), (352, 57197), (383, 57284), (389, 57305), (444, 57494),

Gene: GoodLuckBabe_27 Start: 20401, Stop: 21504, Start Num: 49
Candidate Starts for GoodLuckBabe_27:
(Start: 49 @20401 has 26 MA's), (78, 20470), (86, 20497), (93, 20521), (96, 20530), (114, 20578), (151, 20680), (154, 20686), (192, 20782), (339, 21127), (393, 21286), (401, 21301), (406, 21313), (432, 21415), (447, 21472), (449, 21478), (451, 21487),

Gene: Graynor_20 Start: 16060, Stop: 17217, Start Num: 67
Candidate Starts for Graynor_20:
(Start: 67 @16060 has 83 MA's), (Start: 69 @16063 has 15 MA's), (97, 16126), (147, 16264), (210, 16429), (292, 16693), (293, 16696), (297, 16708), (323, 16786), (345, 16867), (349, 16879), (379, 16957), (380, 16960), (389, 16990), (407, 17026), (408, 17029), (444, 17185),

Gene: GreenHearts_20 Start: 16128, Stop: 17285, Start Num: 67
Candidate Starts for GreenHearts_20:
(Start: 67 @16128 has 83 MA's), (Start: 69 @16131 has 15 MA's), (Start: 84 @16152 has 3 MA's), (86, 16158), (Start: 88 @16167 has 1 MA's), (147, 16332), (155, 16353), (250, 16608), (296, 16773), (297, 16776), (323, 16854), (333, 16890), (345, 16935), (355, 16959), (380, 17028), (394, 17070), (407, 17094), (435, 17208), (442, 17247), (444, 17253), (446, 17259), (452, 17280),

Gene: Greenhouse_20 Start: 16052, Stop: 17209, Start Num: 67
Candidate Starts for Greenhouse_20:
(Start: 67 @16052 has 83 MA's), (Start: 69 @16055 has 15 MA's), (Start: 84 @16076 has 3 MA's), (86, 16082), (Start: 88 @16091 has 1 MA's), (147, 16256), (155, 16277), (195, 16379), (250, 16532), (296, 16697), (323, 16778), (333, 16814), (345, 16859), (355, 16883), (380, 16952), (394, 16994), (407, 17018), (435, 17132), (442, 17171), (444, 17177), (446, 17183), (452, 17204),

Gene: GretelLyn_29 Start: 25984, Stop: 27108, Start Num: 47
Candidate Starts for GretelLyn_29:
(Start: 47 @25984 has 48 MA's), (48, 25990), (Start: 52 @25996 has 1 MA's), (73, 26041), (82, 26065), (108, 26152), (128, 26209), (146, 26254), (165, 26296), (172, 26320), (196, 26383), (235, 26422), (275, 26497), (281, 26527), (307, 26608), (318, 26644), (368, 26797), (395, 26878), (407, 26899), (427, 26977), (447, 27058),

Gene: Guinevere_27 Start: 19991, Stop: 21094, Start Num: 49
Candidate Starts for Guinevere_27:
(Start: 49 @19991 has 26 MA's), (78, 20060), (86, 20087), (96, 20120), (114, 20168), (151, 20270), (154, 20276), (192, 20372), (339, 20717), (393, 20876), (401, 20891), (406, 20903), (432, 21005), (447, 21062), (449, 21068), (451, 21077),

Gene: Gumpizza_19 Start: 14620, Stop: 16068, Start Num: 45
Candidate Starts for Gumpizza_19:
(Start: 45 @14620 has 59 MA's), (Start: 68 @14674 has 1 MA's), (187, 14998), (197, 15028), (305, 15580), (321, 15631), (385, 15826),

Gene: Gusanita_25 Start: 19747, Stop: 20850, Start Num: 49
Candidate Starts for Gusanita_25:
(Start: 49 @19747 has 26 MA's), (78, 19816), (86, 19843), (93, 19867), (95, 19870), (114, 19924), (138, 19990), (151, 20026), (169, 20074), (192, 20128), (288, 20311), (297, 20335), (301, 20344), (322, 20416), (330, 20434), (339, 20473), (393, 20632), (401, 20647), (449, 20824), (451, 20833),

Gene: Halloweekend_25 Start: 19671, Stop: 20774, Start Num: 49
Candidate Starts for Halloweekend_25:
(Start: 49 @19671 has 26 MA's), (78, 19740), (86, 19767), (96, 19800), (114, 19848), (130, 19896), (138, 19914), (169, 19998), (186, 20037), (297, 20259), (322, 20340), (330, 20358), (339, 20397), (393, 20556), (432, 20685), (449, 20748), (451, 20757),

Gene: Halsey_19 Start: 14619, Stop: 16067, Start Num: 45
Candidate Starts for Halsey_19:
(Start: 45 @14619 has 59 MA's), (Start: 68 @14673 has 1 MA's), (197, 15027), (202, 15033), (305, 15579), (321, 15630), (385, 15825),

Gene: HeadNerd_16 Start: 14410, Stop: 15564, Start Num: 69
Candidate Starts for HeadNerd_16:
(Start: 67 @14407 has 83 MA's), (Start: 69 @14410 has 15 MA's), (86, 14440), (97, 14476), (103, 14503), (145, 14608), (147, 14614), (155, 14635), (223, 14806), (236, 14845), (249, 14884), (252, 14896), (280, 15004), (305, 15079), (316, 15118), (328, 15148), (335, 15178), (345, 15214), (349, 15226), (407, 15373), (425, 15448), (429, 15463), (436, 15493), (442, 15526),

Gene: Heather_15 Start: 12317, Stop: 13387, Start Num: 60
Candidate Starts for Heather_15:
(Start: 60 @12317 has 1 MA's), (72, 12347), (Start: 79 @12368 has 1 MA's), (103, 12443), (105, 12449), (132, 12539), (171, 12632), (198, 12674), (350, 13034), (375, 13091), (376, 13106), (392, 13154), (397, 13166), (412, 13202), (427, 13265), (429, 13271), (439, 13310), (440, 13316), (451, 13361),

Gene: Herb_16 Start: 14410, Stop: 15567, Start Num: 67
Candidate Starts for Herb_16:
(Start: 67 @14410 has 83 MA's), (Start: 69 @14413 has 15 MA's), (Start: 84 @14434 has 3 MA's), (86, 14440), (Start: 88 @14449 has 1 MA's), (97, 14476), (147, 14614), (176, 14686), (250, 14890), (296, 15055), (316, 15121), (345, 15217), (385, 15325), (389, 15340), (396, 15355), (407, 15376), (409, 15382), (425, 15451), (436, 15496), (452, 15562),

Gene: Hereford_21 Start: 16193, Stop: 17242, Start Num: 46
Candidate Starts for Hereford_21:
(Start: 46 @16193 has 15 MA's), (153, 16463), (182, 16529), (333, 16859), (343, 16895), (443, 17216),

Gene: Hiyaa_25 Start: 21164, Stop: 22261, Start Num: 62
Candidate Starts for Hiyaa_25:
(Start: 57 @21158 has 1 MA's), (Start: 62 @21164 has 15 MA's), (97, 21266), (108, 21320), (119, 21359), (133, 21395), (141, 21416), (148, 21434), (282, 21707), (294, 21740), (304, 21773), (311, 21794), (348, 21920), (387, 22031), (410, 22085),

Gene: Huckleberry_16 Start: 14407, Stop: 15564, Start Num: 67
Candidate Starts for Huckleberry_16:
(Start: 67 @14407 has 83 MA's), (Start: 69 @14410 has 15 MA's), (86, 14440), (97, 14476), (103, 14503), (145, 14608), (147, 14614), (155, 14635), (223, 14806), (236, 14845), (249, 14884), (252, 14896), (280, 15004), (305, 15079), (316, 15118), (328, 15148), (335, 15178), (345, 15214), (349, 15226), (407, 15373), (425, 15448), (429, 15463), (436, 15493), (442, 15526),

Gene: HunterDalle_16 Start: 14401, Stop: 15558, Start Num: 67
Candidate Starts for HunterDalle_16:
(Start: 67 @14401 has 83 MA's), (Start: 69 @14404 has 15 MA's), (86, 14431), (Start: 88 @14440 has 1 MA's), (97, 14467), (105, 14500), (176, 14677), (250, 14881), (316, 15112), (323, 15127), (345, 15208), (389, 15331), (407, 15367), (408, 15370), (425, 15442), (436, 15487), (452, 15553),

Gene: Huntingdon_20 Start: 16038, Stop: 17195, Start Num: 67
Candidate Starts for Huntingdon_20:
(Start: 67 @16038 has 83 MA's), (Start: 69 @16041 has 15 MA's), (Start: 84 @16062 has 3 MA's), (86, 16068), (Start: 88 @16077 has 1 MA's), (147, 16242), (155, 16263), (250, 16518), (292, 16671), (316, 16749), (323, 16764), (333, 16800), (345, 16845), (359, 16878), (394, 16980), (407, 17004), (435, 17118), (444, 17163),

Gene: IUFootball_18 Start: 13443, Stop: 14564, Start Num: 45
Candidate Starts for IUFootball_18:
(Start: 45 @13443 has 59 MA's), (74, 13512), (89, 13554), (92, 13566), (100, 13587), (197, 13851), (262, 13935), (327, 14142), (331, 14154), (382, 14313), (408, 14373), (422, 14430), (430, 14457), (431, 14466),

Gene: Ichiang_25 Start: 19690, Stop: 20793, Start Num: 49
Candidate Starts for Ichiang_25:
(Start: 49 @19690 has 26 MA's), (78, 19759), (86, 19786), (96, 19819), (114, 19867), (130, 19915), (138, 19933), (169, 20017), (186, 20056), (297, 20278), (322, 20359), (330, 20377), (339, 20416), (393, 20575), (432, 20704), (449, 20767), (451, 20776),

Gene: Ididsumtinwong_19 Start: 14225, Stop: 15355, Start Num: 62
Candidate Starts for Ididsumtinwong_19:
(12, 13781), (13, 13796), (20, 13883), (22, 13919), (24, 13991), (Start: 62 @14225 has 15 MA's), (106, 14369), (117, 14414), (126, 14438), (133, 14456), (310, 14858), (311, 14861), (348, 14987), (354, 14999), (376, 15068), (406, 15146),

Gene: Immaculata_20 Start: 16036, Stop: 17193, Start Num: 67
Candidate Starts for Immaculata_20:
(Start: 67 @16036 has 83 MA's), (Start: 69 @16039 has 15 MA's), (Start: 84 @16060 has 3 MA's), (86, 16066), (105, 16135), (147, 16240), (185, 16333), (195, 16363), (236, 16471), (250, 16516), (292, 16669), (302, 16699), (316, 16747), (323, 16762), (333, 16798), (345, 16843), (394, 16978), (407, 17002), (428, 17089), (442, 17155), (444, 17161), (452, 17188),

Gene: IsHungry_27 Start: 20288, Stop: 21391, Start Num: 49
Candidate Starts for IsHungry_27:
(Start: 49 @20288 has 26 MA's), (86, 20384), (96, 20417), (138, 20531), (147, 20555), (151, 20567), (169, 20615), (192, 20669), (288, 20852), (322, 20957), (330, 20975), (339, 21014), (393, 21173), (401, 21188), (432, 21302), (437, 21320), (447, 21359), (449, 21365), (451, 21374),

Gene: Isperia_25 Start: 17304, Stop: 18395, Start Num: 98

Candidate Starts for Isperia_25:
(Start: 77 @17241 has 2 MA's), (Start: 98 @17304 has 1 MA's), (111, 17364), (143, 17433), (185, 17535), (206, 17589), (265, 17787), (296, 17895), (313, 17943), (378, 18141), (388, 18174), (409, 18219), (448, 18378),

Gene: Iter_19 Start: 14928, Stop: 16049, Start Num: 45
Candidate Starts for Iter_19:
(Start: 45 @14928 has 59 MA's), (92, 15051), (100, 15072), (178, 15276), (202, 15342), (382, 15798), (408, 15858),

Gene: IttyBittyPiggy_18 Start: 14441, Stop: 15652, Start Num: 69
Candidate Starts for IttyBittyPiggy_18:
(Start: 67 @14438 has 83 MA's), (Start: 69 @14441 has 15 MA's), (138, 14621), (207, 14795), (262, 15017), (297, 15140), (333, 15260), (345, 15305), (428, 15551),

Gene: Jalebi_28 Start: 26151, Stop: 27275, Start Num: 47
Candidate Starts for Jalebi_28:
(Start: 47 @26151 has 48 MA's), (48, 26157), (Start: 52 @26163 has 1 MA's), (73, 26208), (82, 26232), (108, 26319), (128, 26376), (146, 26421), (165, 26463), (235, 26589), (275, 26664), (281, 26694), (307, 26775), (318, 26811), (368, 26964), (395, 27045), (407, 27066), (427, 27144), (447, 27225),

Gene: Jamemuya19_26 Start: 23220, Stop: 24344, Start Num: 47
Candidate Starts for Jamemuya19_26:
(Start: 47 @23220 has 48 MA's), (48, 23226), (Start: 52 @23232 has 1 MA's), (73, 23277), (82, 23301), (108, 23388), (128, 23445), (146, 23490), (165, 23532), (172, 23556), (235, 23658), (275, 23733), (281, 23763), (307, 23844), (318, 23880), (368, 24033), (379, 24066), (427, 24213), (447, 24294),

Gene: Janeemi_20 Start: 16175, Stop: 17617, Start Num: 45
Candidate Starts for Janeemi_20:
(Start: 45 @16175 has 59 MA's), (71, 16235), (92, 16298), (182, 16529), (202, 16589), (382, 17366), (419, 17471),

Gene: JanetJ_20 Start: 15852, Stop: 16901, Start Num: 46
Candidate Starts for JanetJ_20:
(Start: 46 @15852 has 15 MA's), (Start: 52 @15870 has 1 MA's), (Start: 79 @15930 has 1 MA's), (153, 16122), (182, 16188), (333, 16518), (343, 16554), (443, 16875), (445, 16881),

Gene: JasmineDragon_18 Start: 13074, Stop: 14306, Start Num: 46
Candidate Starts for JasmineDragon_18:
(Start: 46 @13074 has 15 MA's), (108, 13269), (119, 13293), (229, 13644), (291, 13800), (321, 13890), (351, 13989), (411, 14145), (431, 14226),

Gene: Joann_20 Start: 16032, Stop: 17189, Start Num: 67
Candidate Starts for Joann_20:
(Start: 67 @16032 has 83 MA's), (Start: 69 @16035 has 15 MA's), (Start: 84 @16056 has 3 MA's), (Start: 88 @16071 has 1 MA's), (147, 16236), (155, 16257), (250, 16512), (296, 16677), (323, 16758), (333, 16794), (345, 16839), (355, 16863), (380, 16932), (394, 16974), (407, 16998), (435, 17112), (442, 17151), (444, 17157), (446, 17163), (452, 17184),

Gene: Joemato_19 Start: 14919, Stop: 16040, Start Num: 45
Candidate Starts for Joemato_19:
(Start: 45 @14919 has 59 MA's), (71, 14979), (92, 15042), (100, 15063), (183, 15276), (197, 15327), (202, 15333), (306, 15555), (376, 15771), (382, 15789), (408, 15849),

Gene: JohnDoe_19 Start: 14914, Stop: 16035, Start Num: 45
Candidate Starts for JohnDoe_19:
(Start: 45 @14914 has 59 MA's), (71, 14974), (92, 15037), (100, 15058), (183, 15271), (197, 15322), (202, 15328), (306, 15550), (382, 15784), (408, 15844),

Gene: JohnThicc_18 Start: 13076, Stop: 14311, Start Num: 46
Candidate Starts for JohnThicc_18:
(1, 11033), (2, 11069), (3, 11318), (4, 11393), (5, 11837), (19, 12755), (Start: 46 @13076 has 15 MA's), (108, 13271), (119, 13295), (229, 13646), (291, 13802), (321, 13895), (351, 13994), (411, 14150), (431, 14231),

Gene: Jstan_20 Start: 14901, Stop: 16022, Start Num: 45
Candidate Starts for Jstan_20:
(Start: 45 @14901 has 59 MA's), (71, 14961), (73, 14967), (92, 15024), (100, 15045), (197, 15309), (382, 15771),

Gene: Julie_27 Start: 20442, Stop: 21545, Start Num: 49
Candidate Starts for Julie_27:
(Start: 49 @20442 has 26 MA's), (78, 20511), (86, 20538), (96, 20571), (114, 20619), (130, 20667), (138, 20685), (151, 20721), (288, 21006), (330, 21129), (339, 21168), (393, 21327), (432, 21456), (449, 21519), (451, 21528),

Gene: Jumboset_20 Start: 15985, Stop: 17142, Start Num: 67
Candidate Starts for Jumboset_20:
(Start: 67 @15985 has 83 MA's), (Start: 69 @15988 has 15 MA's), (Start: 84 @16009 has 3 MA's), (105, 16084), (124, 16144), (147, 16189), (155, 16210), (185, 16282), (195, 16312), (236, 16420), (250, 16465), (292, 16618), (302, 16648), (316, 16696), (333, 16747), (345, 16792), (394, 16927), (407, 16951), (428, 17038), (442, 17104), (444, 17110), (452, 17137),

Gene: JuneStar_19 Start: 15024, Stop: 16145, Start Num: 45
Candidate Starts for JuneStar_19:
(Start: 45 @15024 has 59 MA's), (100, 15168), (128, 15258), (202, 15438), (382, 15894), (447, 16110),

Gene: KSunshine22_88 Start: 59810, Stop: 60928, Start Num: 80
Candidate Starts for KSunshine22_88:
(Start: 80 @59810 has 19 MA's), (107, 59903), (147, 59996), (181, 60068), (193, 60110), (241, 60215), (275, 60353), (281, 60383), (295, 60428), (296, 60431), (309, 60473), (329, 60527), (336, 60557), (347, 60596), (352, 60608), (444, 60905),

Gene: Kalimba_19 Start: 14528, Stop: 15976, Start Num: 45
Candidate Starts for Kalimba_19:
(Start: 45 @14528 has 59 MA's), (Start: 68 @14582 has 1 MA's), (187, 14906), (197, 14936), (305, 15488), (385, 15734),

Gene: Kalizoi_20 Start: 15984, Stop: 17141, Start Num: 67
Candidate Starts for Kalizoi_20:
(Start: 67 @15984 has 83 MA's), (Start: 69 @15987 has 15 MA's), (Start: 84 @16008 has 3 MA's), (105, 16083), (124, 16143), (147, 16188), (155, 16209), (185, 16281), (195, 16311), (210, 16353), (236, 16419), (250, 16464), (292, 16617), (302, 16647), (316, 16695), (323, 16710), (333, 16746), (345, 16791), (394, 16926), (407, 16950), (428, 17037), (442, 17103), (444, 17109), (452, 17136),

Gene: Kaylissa_19 Start: 14920, Stop: 16041, Start Num: 45

Candidate Starts for Kaylissa_19:
(Start: 45 @14920 has 59 MA's), (71, 14980), (92, 15043), (100, 15064), (183, 15277), (197, 15328), (202, 15334), (306, 15556), (382, 15790), (408, 15850),

Gene: KeAlii_18 Start: 13937, Stop: 15121, Start Num: 69
Candidate Starts for KeAlii_18:
(Start: 67 @13934 has 83 MA's), (Start: 69 @13937 has 15 MA's), (Start: 84 @13955 has 3 MA's), (89, 13973), (92, 13985), (103, 14024), (108, 14048), (135, 14102), (138, 14111), (239, 14381), (255, 14459), (333, 14729), (345, 14774), (428, 15020), (437, 15053), (449, 15104),

Gene: Keanu_25 Start: 21193, Stop: 22296, Start Num: 58
Candidate Starts for Keanu_25:
(Start: 58 @21193 has 4 MA's), (86, 21265), (108, 21355), (119, 21394), (148, 21469), (150, 21475), (180, 21544), (274, 21706), (275, 21709), (282, 21742), (294, 21775), (311, 21829), (318, 21853), (347, 21952), (348, 21955), (376, 22033), (431, 22204),

Gene: Kihatsu_28 Start: 20316, Stop: 21419, Start Num: 49
Candidate Starts for Kihatsu_28:
(Start: 49 @20316 has 26 MA's), (78, 20385), (86, 20412), (96, 20445), (114, 20493), (151, 20595), (154, 20601), (192, 20697), (339, 21042), (393, 21201), (401, 21216), (406, 21228), (432, 21330), (447, 21387), (449, 21393), (451, 21402),

Gene: KingBob_16 Start: 14410, Stop: 15567, Start Num: 67
Candidate Starts for KingBob_16:
(Start: 67 @14410 has 83 MA's), (Start: 69 @14413 has 15 MA's), (Start: 84 @14434 has 3 MA's), (86, 14440), (Start: 88 @14449 has 1 MA's), (97, 14476), (147, 14614), (176, 14686), (250, 14890), (296, 15055), (316, 15121), (345, 15217), (385, 15325), (389, 15340), (396, 15355), (407, 15376), (409, 15382), (425, 15451), (436, 15496), (452, 15562),

Gene: Kittykat_16 Start: 14431, Stop: 15585, Start Num: 67
Candidate Starts for Kittykat_16:
(Start: 67 @14431 has 83 MA's), (Start: 69 @14434 has 15 MA's), (Start: 84 @14455 has 3 MA's), (103, 14524), (145, 14629), (147, 14635), (155, 14656), (195, 14758), (217, 14809), (228, 14842), (236, 14866), (249, 14905), (252, 14917), (305, 15100), (316, 15139), (328, 15169), (335, 15199), (345, 15235), (407, 15394), (436, 15514), (452, 15580),

Gene: Kokushibo_25 Start: 21173, Stop: 22276, Start Num: 57
Candidate Starts for Kokushibo_25:
(Start: 57 @21173 has 1 MA's), (Start: 62 @21179 has 15 MA's), (97, 21281), (108, 21335), (119, 21374), (133, 21410), (141, 21431), (148, 21449), (282, 21722), (294, 21755), (304, 21788), (311, 21809), (348, 21935), (387, 22046), (410, 22100),

Gene: Korra_21 Start: 15990, Stop: 17147, Start Num: 67
Candidate Starts for Korra_21:
(Start: 67 @15990 has 83 MA's), (Start: 69 @15993 has 15 MA's), (Start: 84 @16014 has 3 MA's), (105, 16089), (147, 16194), (155, 16215), (185, 16287), (195, 16317), (236, 16425), (250, 16470), (292, 16623), (302, 16653), (316, 16701), (323, 16716), (333, 16752), (345, 16797), (407, 16956), (409, 16962), (428, 17043), (442, 17109), (444, 17115), (452, 17142),

Gene: Kukla_24 Start: 18700, Stop: 19824, Start Num: 51
Candidate Starts for Kukla_24:
(Start: 51 @18700 has 16 MA's), (56, 18718), (78, 18766), (Start: 80 @18778 has 19 MA's), (86, 18793), (114, 18901), (138, 18964), (139, 18967), (151, 19000), (169, 19048), (187, 19090), (233,

19150), (277, 19246), (288, 19285), (297, 19309), (339, 19447), (341, 19453), (344, 19465), (393, 19606), (401, 19621),

Gene: LadyAstra_18 Start: 13076, Stop: 14311, Start Num: 46
Candidate Starts for LadyAstra_18:
(19, 12755), (Start: 46 @13076 has 15 MA's), (108, 13271), (119, 13295), (229, 13646), (291, 13802), (321, 13895), (351, 13994), (411, 14150), (431, 14231),

Gene: Lakshmi_20 Start: 16057, Stop: 17214, Start Num: 67
Candidate Starts for Lakshmi_20:
(Start: 67 @16057 has 83 MA's), (Start: 69 @16060 has 15 MA's), (Start: 84 @16081 has 3 MA's), (86, 16087), (Start: 88 @16096 has 1 MA's), (147, 16261), (155, 16282), (250, 16537), (296, 16702), (323, 16783), (333, 16819), (345, 16864), (355, 16888), (380, 16957), (394, 16999), (407, 17023), (429, 17113), (435, 17137), (442, 17176), (444, 17182), (446, 17188), (452, 17209),

Gene: Lambo_29 Start: 25656, Stop: 26780, Start Num: 47
Candidate Starts for Lambo_29:
(Start: 47 @25656 has 48 MA's), (48, 25662), (73, 25713), (82, 25737), (108, 25824), (128, 25881), (146, 25926), (165, 25968), (172, 25992), (196, 26055), (235, 26094), (275, 26169), (281, 26199), (307, 26280), (318, 26316), (368, 26469), (427, 26649),

Gene: Lasagna_16 Start: 14407, Stop: 15561, Start Num: 67
Candidate Starts for Lasagna_16:
(Start: 67 @14407 has 83 MA's), (Start: 69 @14410 has 15 MA's), (86, 14437), (103, 14500), (113, 14542), (124, 14566), (147, 14611), (236, 14842), (249, 14881), (252, 14893), (280, 15001), (293, 15043), (305, 15076), (323, 15130), (335, 15175), (345, 15211), (349, 15223), (379, 15301), (407, 15370), (425, 15445), (429, 15460), (436, 15490), (442, 15523), (451, 15553),

Gene: LastNadiia_26 Start: 17531, Stop: 18628, Start Num: 51
Candidate Starts for LastNadiia_26:
(Start: 51 @17531 has 16 MA's), (66, 17573), (85, 17621), (96, 17657), (157, 17804), (192, 17894), (297, 18104), (339, 18239), (391, 18398), (400, 18416), (451, 18611),

Gene: Laure_95 Start: 61000, Stop: 62112, Start Num: 80
Candidate Starts for Laure_95:
(Start: 80 @61000 has 19 MA's), (101, 61066), (109, 61108), (143, 61177), (155, 61207), (197, 61312), (209, 61330), (220, 61348), (224, 61366), (239, 61402), (281, 61561), (287, 61579), (295, 61606), (323, 61687), (326, 61696), (401, 61915), (407, 61927), (421, 61981), (435, 62035), (442, 62074),

Gene: LavAbarElk_27 Start: 24090, Stop: 25214, Start Num: 47
Candidate Starts for LavAbarElk_27:
(Start: 47 @24090 has 48 MA's), (48, 24096), (Start: 52 @24102 has 1 MA's), (73, 24147), (82, 24171), (108, 24258), (128, 24315), (146, 24360), (165, 24402), (235, 24528), (275, 24603), (281, 24633), (307, 24714), (318, 24750), (368, 24903), (395, 24984), (407, 25005), (427, 25083), (447, 25164),

Gene: Lego_19 Start: 14919, Stop: 16040, Start Num: 45
Candidate Starts for Lego_19:
(Start: 45 @14919 has 59 MA's), (71, 14979), (92, 15042), (100, 15063), (183, 15276), (197, 15327), (202, 15333), (306, 15555), (376, 15771), (382, 15789), (408, 15849),

Gene: Lennox_16 Start: 14395, Stop: 15549, Start Num: 67
Candidate Starts for Lennox_16:

(Start: 67 @14395 has 83 MA's), (Start: 69 @14398 has 15 MA's), (86, 14425), (103, 14488), (113, 14530), (124, 14554), (147, 14599), (236, 14830), (249, 14869), (252, 14881), (280, 14989), (293, 15031), (305, 15064), (316, 15103), (323, 15118), (335, 15163), (345, 15199), (349, 15211), (379, 15289), (407, 15358), (425, 15433), (429, 15448), (436, 15478), (442, 15511), (451, 15541),

Gene: Lenoxika_27 Start: 19987, Stop: 21090, Start Num: 49
Candidate Starts for Lenoxika_27:
(Start: 49 @19987 has 26 MA's), (78, 20056), (86, 20083), (96, 20116), (114, 20164), (151, 20266), (154, 20272), (192, 20368), (339, 20713), (393, 20872), (401, 20887), (406, 20899), (432, 21001), (447, 21058), (449, 21064), (451, 21073),

Gene: LeoJr_93 Start: 61859, Stop: 62977, Start Num: 80
Candidate Starts for LeoJr_93:
(Start: 80 @61859 has 19 MA's), (146, 62042), (147, 62045), (230, 62237), (241, 62264), (275, 62402), (281, 62432), (291, 62465), (295, 62477), (296, 62480), (326, 62567), (333, 62594), (336, 62606), (347, 62645), (376, 62723), (423, 62864), (444, 62954),

Gene: Leopard_38 Start: 28522, Stop: 29766, Start Num: 36
Candidate Starts for Leopard_38:
(31, 28474), (34, 28510), (Start: 36 @28522 has 3 MA's), (73, 28621), (Start: 80 @28639 has 19 MA's), (115, 28756), (142, 28825), (156, 28858), (162, 28867), (170, 28894), (183, 28918), (185, 28927), (235, 29002), (279, 29098), (290, 29134), (307, 29188), (314, 29209), (319, 29227), (321, 29233), (323, 29236), (327, 29248), (370, 29380), (372, 29383), (423, 29545), (427, 29557), (430, 29566), (455, 29701), (456, 29743),

Gene: Liebe_18 Start: 13443, Stop: 14564, Start Num: 45
Candidate Starts for Liebe_18:
(Start: 45 @13443 has 59 MA's), (74, 13512), (89, 13554), (92, 13566), (100, 13587), (197, 13851), (262, 13935), (327, 14142), (331, 14154), (382, 14313), (408, 14373), (422, 14430), (430, 14457), (431, 14466),

Gene: LilStuart_16 Start: 14395, Stop: 15549, Start Num: 67
Candidate Starts for LilStuart_16:
(Start: 67 @14395 has 83 MA's), (Start: 69 @14398 has 15 MA's), (86, 14425), (103, 14488), (113, 14530), (124, 14554), (147, 14599), (236, 14830), (249, 14869), (252, 14881), (280, 14989), (293, 15031), (305, 15064), (323, 15118), (335, 15163), (345, 15199), (349, 15211), (379, 15289), (407, 15358), (425, 15433), (429, 15448), (436, 15478), (442, 15511), (451, 15541),

Gene: Lila22_28 Start: 25623, Stop: 26735, Start Num: 52
Candidate Starts for Lila22_28:
(Start: 47 @25611 has 48 MA's), (48, 25617), (Start: 52 @25623 has 1 MA's), (73, 25668), (82, 25692), (108, 25779), (128, 25836), (146, 25881), (165, 25923), (172, 25947), (196, 26010), (235, 26049), (275, 26124), (281, 26154), (307, 26235), (318, 26271), (368, 26424), (395, 26505), (407, 26526), (427, 26604),

Gene: Lilbooboo_15 Start: 12353, Stop: 13450, Start Num: 63
Candidate Starts for Lilbooboo_15:
(Start: 63 @12353 has 6 MA's), (Start: 84 @12410 has 3 MA's), (103, 12473), (119, 12530), (120, 12533), (132, 12563), (174, 12662), (312, 12977), (327, 13022), (330, 13031), (346, 13085), (350, 13097), (376, 13169), (383, 13190), (397, 13229), (412, 13265), (418, 13286), (422, 13307), (429, 13334), (432, 13349), (440, 13379), (445, 13403), (451, 13424),

Gene: LilyPad_25 Start: 20787, Stop: 21920, Start Num: 47

Candidate Starts for LilyPad_25:
(Start: 47 @20787 has 48 MA's), (71, 20838), (74, 20847), (Start: 80 @20865 has 19 MA's), (92, 20904), (100, 20925), (120, 21000), (145, 21060), (172, 21129), (197, 21198), (330, 21486), (334, 21504), (342, 21534), (349, 21558), (368, 21606), (411, 21720), (427, 21786), (429, 21792), (437, 21825), (439, 21831), (445, 21864), (450, 21879),

Gene: Lishka_19 Start: 14189, Stop: 15319, Start Num: 62
Candidate Starts for Lishka_19:
(12, 13745), (13, 13760), (20, 13847), (22, 13883), (24, 13955), (Start: 62 @14189 has 15 MA's), (106, 14333), (117, 14378), (126, 14402), (133, 14420), (271, 14693), (310, 14822), (311, 14825), (323, 14861), (348, 14951), (354, 14963), (376, 15032), (406, 15110), (436, 15221),

Gene: LisoBros_18 Start: 14897, Stop: 16402, Start Num: 17
Candidate Starts for LisoBros_18:
(Start: 17 @14897 has 1 MA's), (25, 15068), (26, 15074), (42, 15212), (Start: 45 @15221 has 59 MA's), (66, 15284), (123, 15461), (136, 15494), (189, 15641), (194, 15647), (222, 15701), (270, 15803), (278, 15836), (351, 16067), (353, 16070), (372, 16118), (383, 16157), (439, 16337), (445, 16370), (452, 16394),

Gene: Litotes_20 Start: 16024, Stop: 17181, Start Num: 67
Candidate Starts for Litotes_20:
(Start: 67 @16024 has 83 MA's), (Start: 69 @16027 has 15 MA's), (97, 16090), (147, 16228), (210, 16393), (292, 16657), (293, 16660), (296, 16669), (323, 16750), (345, 16831), (349, 16843), (379, 16921), (389, 16954), (407, 16990), (408, 16993), (444, 17149),

Gene: LittleFella_26 Start: 22663, Stop: 23796, Start Num: 47
Candidate Starts for LittleFella_26:
(Start: 47 @22663 has 48 MA's), (73, 22720), (74, 22723), (100, 22801), (110, 22843), (121, 22879), (165, 22981), (172, 23005), (182, 23020), (197, 23074), (202, 23080), (270, 23167), (294, 23251), (327, 23353), (330, 23362), (334, 23380), (335, 23386), (349, 23434), (368, 23482), (395, 23563), (409, 23590), (411, 23596), (427, 23662), (429, 23668), (437, 23701), (439, 23707), (445, 23740), (447, 23746), (450, 23755),

Gene: Lizalica_19 Start: 14904, Stop: 16025, Start Num: 45
Candidate Starts for Lizalica_19:
(Start: 45 @14904 has 59 MA's), (71, 14964), (92, 15027), (100, 15048), (197, 15312), (202, 15318), (376, 15756), (382, 15774), (408, 15834),

Gene: London_19 Start: 14901, Stop: 16022, Start Num: 45
Candidate Starts for London_19:
(Start: 45 @14901 has 59 MA's), (71, 14961), (73, 14967), (92, 15024), (100, 15045), (197, 15309), (382, 15771),

Gene: LuckyBarnes_26 Start: 21950, Stop: 23038, Start Num: 45
Candidate Starts for LuckyBarnes_26:
(Start: 45 @21950 has 59 MA's), (78, 22034), (82, 22049), (165, 22274), (227, 22403), (258, 22415), (281, 22487), (290, 22514), (321, 22607), (333, 22646), (340, 22673), (342, 22679), (351, 22706), (386, 22805), (410, 22859), (416, 22883), (436, 22964),

Gene: LuckyLeo_28 Start: 24963, Stop: 26087, Start Num: 47
Candidate Starts for LuckyLeo_28:
(Start: 47 @24963 has 48 MA's), (48, 24969), (73, 25020), (82, 25044), (108, 25131), (128, 25188), (146, 25233), (165, 25275), (171, 25296), (172, 25299), (196, 25362), (235, 25401), (236, 25404),

(275, 25476), (281, 25506), (307, 25587), (318, 25623), (368, 25776), (427, 25956),

Gene: Lucy_16 Start: 14387, Stop: 15541, Start Num: 67
Candidate Starts for Lucy_16:
(Start: 67 @14387 has 83 MA's), (Start: 69 @14390 has 15 MA's), (86, 14417), (103, 14480), (113, 14522), (124, 14546), (147, 14591), (236, 14822), (249, 14861), (252, 14873), (280, 14981), (293, 15023), (305, 15056), (323, 15110), (335, 15155), (345, 15191), (349, 15203), (379, 15281), (407, 15350), (425, 15425), (429, 15440), (436, 15470), (442, 15503), (451, 15533),

Gene: MaGuCo_18 Start: 13377, Stop: 14498, Start Num: 45
Candidate Starts for MaGuCo_18:
(Start: 45 @13377 has 59 MA's), (92, 13500), (100, 13521), (202, 13791), (262, 13869), (327, 14076), (331, 14088), (376, 14229), (382, 14247), (408, 14307), (422, 14364), (430, 14391), (431, 14400),

Gene: Madi_24 Start: 20204, Stop: 21337, Start Num: 47
Candidate Starts for Madi_24:
(Start: 47 @20204 has 48 MA's), (92, 20321), (100, 20342), (104, 20354), (108, 20375), (110, 20384), (120, 20417), (172, 20546), (197, 20615), (285, 20765), (307, 20834), (315, 20858), (330, 20903), (334, 20921), (340, 20945), (349, 20975), (409, 21131), (411, 21137), (427, 21203), (429, 21209), (437, 21242), (445, 21281),

Gene: Makima_24 Start: 16614, Stop: 17711, Start Num: 51
Candidate Starts for Makima_24:
(Start: 51 @16614 has 16 MA's), (66, 16656), (85, 16704), (118, 16803), (157, 16887), (192, 16977), (297, 17187), (339, 17322), (391, 17481), (400, 17499), (451, 17694),

Gene: Makoto_16 Start: 14411, Stop: 15562, Start Num: 69
Candidate Starts for Makoto_16:
(Start: 67 @14408 has 83 MA's), (Start: 69 @14411 has 15 MA's), (86, 14438), (103, 14501), (113, 14543), (124, 14567), (147, 14612), (236, 14843), (249, 14882), (252, 14894), (280, 15002), (293, 15044), (305, 15077), (323, 15131), (335, 15176), (345, 15212), (349, 15224), (379, 15302), (407, 15371), (425, 15446), (429, 15461), (436, 15491), (442, 15524), (451, 15554),

Gene: MamaPearl_16 Start: 14415, Stop: 15572, Start Num: 67
Candidate Starts for MamaPearl_16:
(Start: 67 @14415 has 83 MA's), (Start: 69 @14418 has 15 MA's), (86, 14445), (113, 14550), (147, 14619), (210, 14784), (217, 14793), (223, 14811), (228, 14826), (333, 15177), (335, 15186), (345, 15222), (381, 15318), (394, 15357), (407, 15381), (437, 15504), (444, 15540), (452, 15567),

Gene: Maria1952_16 Start: 14413, Stop: 15567, Start Num: 69
Candidate Starts for Maria1952_16:
(Start: 67 @14410 has 83 MA's), (Start: 69 @14413 has 15 MA's), (Start: 84 @14434 has 3 MA's), (86, 14440), (Start: 88 @14449 has 1 MA's), (97, 14476), (147, 14614), (176, 14686), (250, 14890), (296, 15055), (316, 15121), (345, 15217), (385, 15325), (389, 15340), (396, 15355), (407, 15376), (409, 15382), (425, 15451), (436, 15496), (452, 15562),

Gene: Maruru_18 Start: 18201, Stop: 19316, Start Num: 53
Candidate Starts for Maruru_18:
(Start: 53 @18201 has 3 MA's), (182, 18552), (284, 18750), (289, 18762), (303, 18801), (318, 18855), (350, 18963), (392, 19086), (411, 19128), (437, 19239), (446, 19281), (453, 19308),

Gene: Maureen_18 Start: 13443, Stop: 14564, Start Num: 45
Candidate Starts for Maureen_18:

(Start: 45 @13443 has 59 MA's), (74, 13512), (89, 13554), (92, 13566), (100, 13587), (197, 13851), (262, 13935), (327, 14142), (331, 14154), (382, 14313), (408, 14373), (422, 14430), (430, 14457), (431, 14466),

Gene: MeganNoll_20 Start: 16042, Stop: 17199, Start Num: 67
Candidate Starts for MeganNoll_20:
(Start: 67 @16042 has 83 MA's), (Start: 69 @16045 has 15 MA's), (Start: 84 @16066 has 3 MA's), (105, 16141), (124, 16201), (147, 16246), (155, 16267), (185, 16339), (195, 16369), (236, 16477), (250, 16522), (292, 16675), (302, 16705), (316, 16753), (333, 16804), (345, 16849), (394, 16984), (407, 17008), (428, 17095), (442, 17161), (444, 17167), (452, 17194),

Gene: Michkear_22 Start: 16776, Stop: 17867, Start Num: 45
Candidate Starts for Michkear_22:
(Start: 45 @16776 has 59 MA's), (Start: 57 @16809 has 1 MA's), (Start: 68 @16830 has 1 MA's), (202, 17190), (331, 17457), (376, 17598), (382, 17616),

Gene: MillySue_27 Start: 19861, Stop: 20964, Start Num: 49
Candidate Starts for MillySue_27:
(Start: 49 @19861 has 26 MA's), (78, 19930), (86, 19957), (96, 19990), (114, 20038), (130, 20086), (138, 20104), (154, 20146), (169, 20188), (236, 20299), (288, 20425), (322, 20530), (330, 20548), (339, 20587), (393, 20746), (432, 20875), (449, 20938), (451, 20947),

Gene: Mima20_27 Start: 25340, Stop: 26464, Start Num: 47
Candidate Starts for Mima20_27:
(Start: 47 @25340 has 48 MA's), (48, 25346), (Start: 52 @25352 has 1 MA's), (73, 25397), (82, 25421), (108, 25508), (128, 25565), (146, 25610), (165, 25652), (172, 25676), (196, 25739), (235, 25778), (275, 25853), (281, 25883), (307, 25964), (318, 26000), (368, 26153), (395, 26234), (407, 26255), (427, 26333), (447, 26414),

Gene: Mimi_93 Start: 61950, Stop: 63068, Start Num: 80
Candidate Starts for Mimi_93:
(Start: 80 @61950 has 19 MA's), (146, 62133), (147, 62136), (203, 62271), (221, 62295), (230, 62325), (241, 62352), (251, 62400), (281, 62523), (291, 62556), (295, 62568), (326, 62658), (329, 62667), (336, 62697), (347, 62736), (352, 62748), (383, 62835), (389, 62856), (444, 63045),

Gene: MiniMommy_18 Start: 13075, Stop: 14307, Start Num: 46
Candidate Starts for MiniMommy_18:
(Start: 46 @13075 has 15 MA's), (108, 13270), (119, 13294), (229, 13645), (291, 13801), (321, 13891), (351, 13990), (411, 14146), (431, 14227),

Gene: Mireles_23 Start: 15185, Stop: 16282, Start Num: 51
Candidate Starts for Mireles_23:
(Start: 51 @15185 has 16 MA's), (85, 15275), (157, 15458), (161, 15467), (192, 15548), (277, 15698), (314, 15812), (339, 15893), (391, 16052), (393, 16058), (400, 16070), (451, 16265),

Gene: Misaeng_20 Start: 16102, Stop: 17259, Start Num: 67
Candidate Starts for Misaeng_20:
(Start: 67 @16102 has 83 MA's), (Start: 69 @16105 has 15 MA's), (Start: 84 @16126 has 3 MA's), (86, 16132), (Start: 88 @16141 has 1 MA's), (147, 16306), (155, 16327), (250, 16582), (292, 16735), (316, 16813), (323, 16828), (333, 16864), (345, 16909), (359, 16942), (394, 17044), (407, 17068), (435, 17182), (444, 17227),

Gene: MissSwiss_18 Start: 14398, Stop: 15609, Start Num: 69

Candidate Starts for MissSwiss_18:
(Start: 67 @14395 has 83 MA's), (Start: 69 @14398 has 15 MA's), (89, 14440), (103, 14491), (138, 14578), (207, 14752), (220, 14815), (250, 14929), (262, 14974), (296, 15094), (316, 15166), (333, 15217), (338, 15235), (345, 15262), (373, 15328), (394, 15397), (428, 15508), (437, 15541), (449, 15592),

Gene: MoiGyank_31 Start: 26021, Stop: 27145, Start Num: 47
Candidate Starts for MoiGyank_31:
(Start: 47 @26021 has 48 MA's), (48, 26027), (Start: 52 @26033 has 1 MA's), (73, 26078), (82, 26102), (108, 26189), (128, 26246), (146, 26291), (165, 26333), (235, 26459), (275, 26534), (281, 26564), (307, 26645), (318, 26681), (368, 26834), (395, 26915), (407, 26936), (427, 27014), (447, 27095),

Gene: Mojorita_19 Start: 14327, Stop: 15457, Start Num: 62
Candidate Starts for Mojorita_19:
(Start: 62 @14327 has 15 MA's), (106, 14471), (111, 14495), (126, 14540), (133, 14558), (151, 14606), (256, 14780), (267, 14816), (269, 14822), (348, 15089), (354, 15101), (406, 15248),

Gene: Moki_16 Start: 14407, Stop: 15564, Start Num: 67
Candidate Starts for Moki_16:
(Start: 67 @14407 has 83 MA's), (Start: 69 @14410 has 15 MA's), (86, 14440), (97, 14476), (103, 14503), (145, 14608), (147, 14614), (155, 14635), (223, 14806), (236, 14845), (249, 14884), (252, 14896), (280, 15004), (305, 15079), (316, 15118), (328, 15148), (335, 15178), (345, 15214), (349, 15226), (407, 15373), (425, 15448), (429, 15463), (436, 15493), (442, 15526),

Gene: MontyDev_29 Start: 23090, Stop: 24277, Start Num: 43
Candidate Starts for MontyDev_29:
(28, 22985), (29, 22991), (Start: 43 @23090 has 13 MA's), (50, 23117), (Start: 52 @23120 has 1 MA's), (75, 23165), (Start: 79 @23177 has 1 MA's), (82, 23186), (172, 23462), (183, 23480), (208, 23558), (225, 23567), (235, 23582), (318, 23804), (323, 23816), (368, 23957), (370, 23960), (408, 24065), (419, 24110), (427, 24140), (433, 24164), (436, 24176), (437, 24179), (448, 24227), (454, 24266),

Gene: Moss_19 Start: 14619, Stop: 16067, Start Num: 45
Candidate Starts for Moss_19:
(Start: 45 @14619 has 59 MA's), (Start: 68 @14673 has 1 MA's), (197, 15027), (202, 15033), (305, 15579), (321, 15630), (385, 15825),

Gene: MrBoss_20 Start: 16024, Stop: 17181, Start Num: 67
Candidate Starts for MrBoss_20:
(Start: 67 @16024 has 83 MA's), (Start: 69 @16027 has 15 MA's), (97, 16090), (147, 16228), (210, 16393), (292, 16657), (293, 16660), (296, 16669), (323, 16750), (345, 16831), (349, 16843), (379, 16921), (389, 16954), (407, 16990), (408, 16993), (444, 17149),

Gene: MrGloopy_20 Start: 15976, Stop: 17133, Start Num: 67
Candidate Starts for MrGloopy_20:
(Start: 67 @15976 has 83 MA's), (Start: 69 @15979 has 15 MA's), (Start: 84 @16000 has 3 MA's), (105, 16075), (124, 16135), (147, 16180), (155, 16201), (185, 16273), (195, 16303), (236, 16411), (250, 16456), (292, 16609), (302, 16639), (316, 16687), (333, 16738), (345, 16783), (394, 16918), (407, 16942), (428, 17029), (442, 17095), (444, 17101), (452, 17128),

Gene: MrMiyagi_23 Start: 19394, Stop: 20566, Start Num: 43
Candidate Starts for MrMiyagi_23:
(41, 19382), (Start: 43 @19394 has 13 MA's), (65, 19448), (72, 19463), (Start: 80 @19484 has 19 MA's), (128, 19655), (142, 19691), (183, 19784), (202, 19841), (235, 19868), (260, 19901), (273,

19937), (281, 19973), (314, 20075), (318, 20090), (370, 20246), (427, 20423), (430, 20432), (431, 20441), (437, 20462), (438, 20465), (448, 20510),

Gene: Mudpuppy_19 Start: 14918, Stop: 16039, Start Num: 45
Candidate Starts for Mudpuppy_19:
(Start: 45 @14918 has 59 MA's), (71, 14978), (92, 15041), (100, 15062), (183, 15275), (197, 15326), (202, 15332), (306, 15554), (376, 15770), (382, 15788), (408, 15848),

Gene: Mufasa8_18 Start: 18827, Stop: 19933, Start Num: 54
Candidate Starts for Mufasa8_18:
(Start: 54 @18827 has 1 MA's), (85, 18908), (138, 19064), (144, 19079), (151, 19100), (186, 19190), (191, 19202), (193, 19211), (272, 19328), (284, 19370), (289, 19382), (294, 19397), (318, 19475), (406, 19733), (423, 19799), (440, 19868),

Gene: Mysterium_19 Start: 14620, Stop: 16068, Start Num: 45
Candidate Starts for Mysterium_19:
(Start: 45 @14620 has 59 MA's), (Start: 68 @14674 has 1 MA's), (187, 14998), (197, 15028), (305, 15580), (321, 15631), (385, 15826),

Gene: Nancia_16 Start: 14407, Stop: 15561, Start Num: 67
Candidate Starts for Nancia_16:
(Start: 67 @14407 has 83 MA's), (Start: 69 @14410 has 15 MA's), (86, 14437), (103, 14500), (113, 14542), (124, 14566), (147, 14611), (236, 14842), (249, 14881), (252, 14893), (280, 15001), (293, 15043), (305, 15076), (323, 15130), (335, 15175), (345, 15211), (349, 15223), (379, 15301), (407, 15370), (425, 15445), (429, 15460), (436, 15490), (442, 15523), (451, 15553),

Gene: Nandita_27 Start: 19991, Stop: 21094, Start Num: 49
Candidate Starts for Nandita_27:
(Start: 49 @19991 has 26 MA's), (78, 20060), (86, 20087), (96, 20120), (114, 20168), (151, 20270), (154, 20276), (192, 20372), (339, 20717), (393, 20876), (401, 20891), (406, 20903), (432, 21005), (447, 21062), (449, 21068), (451, 21077),

Gene: Nettle_29 Start: 25875, Stop: 26999, Start Num: 47
Candidate Starts for Nettle_29:
(Start: 47 @25875 has 48 MA's), (48, 25881), (73, 25932), (82, 25956), (108, 26043), (128, 26100), (146, 26145), (165, 26187), (235, 26313), (275, 26388), (281, 26418), (307, 26499), (318, 26535), (368, 26688), (395, 26769), (407, 26790), (427, 26868), (447, 26949),

Gene: Neuvillette_23 Start: 15285, Stop: 16382, Start Num: 51
Candidate Starts for Neuvillette_23:
(Start: 51 @15285 has 16 MA's), (66, 15327), (85, 15375), (96, 15411), (157, 15558), (192, 15648), (256, 15726), (271, 15777), (322, 15936), (339, 15993), (360, 16053), (400, 16170),

Gene: Nilo_30 Start: 23446, Stop: 24633, Start Num: 43
Candidate Starts for Nilo_30:
(28, 23341), (29, 23347), (32, 23386), (Start: 43 @23446 has 13 MA's), (50, 23473), (Start: 52 @23476 has 1 MA's), (75, 23521), (Start: 79 @23533 has 1 MA's), (82, 23542), (128, 23707), (172, 23818), (183, 23836), (208, 23914), (225, 23923), (235, 23938), (318, 24160), (323, 24172), (368, 24313), (370, 24316), (408, 24421), (419, 24466), (427, 24496), (433, 24520), (436, 24532), (437, 24535), (448, 24583), (454, 24622),

Gene: Niobe_19 Start: 14901, Stop: 16022, Start Num: 45
Candidate Starts for Niobe_19:

(Start: 45 @14901 has 59 MA's), (71, 14961), (73, 14967), (92, 15024), (100, 15045), (197, 15309), (382, 15771),

Gene: Nitro_19 Start: 14929, Stop: 16050, Start Num: 45
Candidate Starts for Nitro_19:
(Start: 45 @14929 has 59 MA's), (71, 14989), (92, 15052), (100, 15073), (202, 15343), (264, 15430), (382, 15799),

Gene: NoSwimming_21 Start: 16995, Stop: 18044, Start Num: 46
Candidate Starts for NoSwimming_21:
(15, 16623), (39, 16965), (Start: 46 @16995 has 15 MA's), (Start: 52 @17013 has 1 MA's), (109, 17169), (122, 17196), (145, 17244), (153, 17265), (182, 17331), (259, 17412), (325, 17637), (333, 17661), (341, 17691), (343, 17697), (358, 17739), (397, 17856), (430, 17958), (443, 18018), (445, 18024),

Gene: NorManre_30 Start: 25228, Stop: 26352, Start Num: 47
Candidate Starts for NorManre_30:
(Start: 47 @25228 has 48 MA's), (48, 25234), (Start: 52 @25240 has 1 MA's), (73, 25285), (82, 25309), (108, 25396), (128, 25453), (146, 25498), (165, 25540), (172, 25564), (196, 25627), (235, 25666), (275, 25741), (281, 25771), (307, 25852), (318, 25888), (368, 26041), (395, 26122), (407, 26143), (427, 26221), (447, 26302),

Gene: NovaSharks_28 Start: 23220, Stop: 24344, Start Num: 47
Candidate Starts for NovaSharks_28:
(Start: 47 @23220 has 48 MA's), (48, 23226), (Start: 52 @23232 has 1 MA's), (73, 23277), (82, 23301), (108, 23388), (128, 23445), (146, 23490), (165, 23532), (172, 23556), (235, 23658), (275, 23733), (281, 23763), (307, 23844), (318, 23880), (368, 24033), (379, 24066), (427, 24213), (447, 24294),

Gene: Nubia_20 Start: 16056, Stop: 17174, Start Num: 88
Candidate Starts for Nubia_20:
(Start: 67 @16017 has 83 MA's), (Start: 69 @16020 has 15 MA's), (Start: 84 @16041 has 3 MA's), (86, 16047), (Start: 88 @16056 has 1 MA's), (147, 16221), (155, 16242), (250, 16497), (296, 16662), (323, 16743), (333, 16779), (345, 16824), (355, 16848), (380, 16917), (394, 16959), (407, 16983), (435, 17097), (442, 17136), (444, 17142), (446, 17148), (452, 17169),

Gene: OMalley_16 Start: 14401, Stop: 15558, Start Num: 67
Candidate Starts for OMalley_16:
(Start: 67 @14401 has 83 MA's), (Start: 69 @14404 has 15 MA's), (86, 14431), (Start: 88 @14440 has 1 MA's), (97, 14467), (111, 14530), (176, 14677), (250, 14881), (316, 15112), (323, 15127), (345, 15208), (389, 15331), (407, 15367), (408, 15370), (425, 15442), (436, 15487), (452, 15553),

Gene: ObiToo_18 Start: 14086, Stop: 15297, Start Num: 67
Candidate Starts for ObiToo_18:
(Start: 67 @14086 has 83 MA's), (Start: 69 @14089 has 15 MA's), (132, 14251), (138, 14266), (147, 14290), (211, 14470), (220, 14503), (292, 14770), (324, 14872), (333, 14905), (345, 14950), (428, 15196), (437, 15229), (439, 15235), (446, 15271), (449, 15280),

Gene: OnionKnight_20 Start: 16035, Stop: 17189, Start Num: 163
Candidate Starts for OnionKnight_20:
(21, 15387), (83, 15777), (159, 16023), (Start: 163 @16035 has 1 MA's), (184, 16101), (214, 16245), (215, 16251), (235, 16395), (244, 16440), (249, 16491), (253, 16506), (269, 16572), (284, 16632), (336, 16800), (337, 16803), (339, 16812), (352, 16851), (373, 16908), (376, 16926), (377, 16929), (382, 16944), (385, 16953), (391, 16971), (401, 16992), (409, 17010), (419, 17049), (434, 17112),

(437, 17124), (450, 17178), (451, 17184),

Gene: Onyinye_39 Start: 28401, Stop: 29645, Start Num: 36
Candidate Starts for Onyinye_39:
(31, 28353), (34, 28389), (Start: 36 @28401 has 3 MA's), (73, 28500), (Start: 80 @28518 has 19 MA's), (115, 28635), (142, 28704), (156, 28737), (162, 28746), (170, 28773), (185, 28806), (235, 28881), (279, 28977), (290, 29013), (307, 29067), (314, 29088), (319, 29106), (321, 29112), (323, 29115), (327, 29127), (370, 29259), (372, 29262), (423, 29424), (427, 29436), (430, 29445), (455, 29580), (456, 29622),

Gene: Origami_18 Start: 13076, Stop: 14311, Start Num: 46
Candidate Starts for Origami_18:
(19, 12755), (Start: 46 @13076 has 15 MA's), (108, 13271), (119, 13295), (229, 13646), (291, 13802), (321, 13895), (351, 13994), (411, 14150), (431, 14231),

Gene: OscarSo_29 Start: 19754, Stop: 20926, Start Num: 77
Candidate Starts for OscarSo_29:
(Start: 77 @19754 has 2 MA's), (89, 19787), (99, 19820), (113, 19883), (152, 19970), (162, 19988), (208, 20111), (276, 20345), (296, 20420), (319, 20486), (376, 20663), (378, 20669), (399, 20723), (405, 20735), (422, 20798), (448, 20906), (449, 20909),

Gene: OtterstedtS21_29 Start: 25306, Stop: 26430, Start Num: 47
Candidate Starts for OtterstedtS21_29:
(Start: 47 @25306 has 48 MA's), (48, 25312), (Start: 52 @25318 has 1 MA's), (73, 25363), (82, 25387), (108, 25474), (128, 25531), (146, 25576), (165, 25618), (235, 25744), (275, 25819), (281, 25849), (307, 25930), (318, 25966), (368, 26119), (395, 26200), (407, 26221), (427, 26299), (447, 26380),

Gene: OurGirlNessie_16 Start: 14387, Stop: 15541, Start Num: 67
Candidate Starts for OurGirlNessie_16:
(Start: 67 @14387 has 83 MA's), (Start: 69 @14390 has 15 MA's), (86, 14417), (103, 14480), (113, 14522), (124, 14546), (147, 14591), (236, 14822), (249, 14861), (252, 14873), (280, 14981), (293, 15023), (305, 15056), (323, 15110), (335, 15155), (345, 15191), (349, 15203), (407, 15350), (425, 15425), (429, 15440), (436, 15470), (442, 15503), (451, 15533),

Gene: Oxynfrius_20 Start: 16030, Stop: 17187, Start Num: 67
Candidate Starts for Oxynfrius_20:
(Start: 67 @16030 has 83 MA's), (Start: 69 @16033 has 15 MA's), (Start: 84 @16054 has 3 MA's), (86, 16060), (Start: 88 @16069 has 1 MA's), (105, 16129), (124, 16189), (147, 16234), (155, 16255), (250, 16510), (296, 16675), (323, 16756), (333, 16792), (345, 16837), (355, 16861), (380, 16930), (394, 16972), (407, 16996), (435, 17110), (442, 17149), (444, 17155), (446, 17161), (452, 17182),

Gene: Panchaali_85 Start: 59690, Stop: 60808, Start Num: 80
Candidate Starts for Panchaali_85:
(Start: 80 @59690 has 19 MA's), (Start: 88 @59714 has 1 MA's), (101, 59756), (147, 59876), (151, 59888), (240, 60095), (241, 60098), (275, 60233), (281, 60263), (295, 60308), (323, 60389), (333, 60425), (336, 60437), (338, 60443), (345, 60470), (347, 60476), (352, 60488), (366, 60524), (444, 60785),

Gene: PandaPo_18 Start: 14395, Stop: 15609, Start Num: 67
Candidate Starts for PandaPo_18:
(Start: 67 @14395 has 83 MA's), (Start: 69 @14398 has 15 MA's), (89, 14440), (103, 14491), (138, 14578), (207, 14752), (220, 14815), (250, 14929), (262, 14974), (296, 15094), (316, 15166), (333, 15217), (338, 15235), (345, 15262), (373, 15328), (394, 15397), (428, 15508), (437, 15541), (449,

15592),

Gene: PapayaSalad_19 Start: 14200, Stop: 15330, Start Num: 62
Candidate Starts for PapayaSalad_19:
(38, 14128), (Start: 62 @14200 has 15 MA's), (Start: 79 @14248 has 1 MA's), (106, 14344), (117, 14389), (126, 14413), (133, 14431), (256, 14653), (269, 14695), (271, 14704), (310, 14833), (311, 14836), (348, 14962), (354, 14974), (376, 15043), (406, 15121),

Gene: Papyrus_29 Start: 23111, Stop: 24298, Start Num: 43
Candidate Starts for Papyrus_29:
(28, 23006), (29, 23012), (Start: 43 @23111 has 13 MA's), (50, 23138), (Start: 52 @23141 has 1 MA's), (75, 23186), (Start: 79 @23198 has 1 MA's), (82, 23207), (172, 23483), (183, 23501), (208, 23579), (225, 23588), (235, 23603), (236, 23606), (318, 23825), (323, 23837), (368, 23978), (370, 23981), (408, 24086), (419, 24131), (427, 24161), (433, 24185), (436, 24197), (437, 24200), (448, 24248), (454, 24287),

Gene: PartyCup_20 Start: 16071, Stop: 17228, Start Num: 67
Candidate Starts for PartyCup_20:
(Start: 67 @16071 has 83 MA's), (Start: 69 @16074 has 15 MA's), (97, 16137), (147, 16275), (210, 16440), (292, 16704), (293, 16707), (296, 16716), (323, 16797), (345, 16878), (349, 16890), (379, 16968), (380, 16971), (389, 17001), (407, 17037), (444, 17196),

Gene: ParvusTarda_29 Start: 24788, Stop: 25912, Start Num: 47
Candidate Starts for ParvusTarda_29:
(Start: 47 @24788 has 48 MA's), (48, 24794), (Start: 52 @24800 has 1 MA's), (73, 24845), (82, 24869), (108, 24956), (128, 25013), (146, 25058), (165, 25100), (172, 25124), (196, 25187), (235, 25226), (275, 25301), (281, 25331), (307, 25412), (318, 25448), (328, 25475), (368, 25601), (427, 25781),

Gene: Patbob_92 Start: 62822, Stop: 63940, Start Num: 80
Candidate Starts for Patbob_92:
(Start: 80 @62822 has 19 MA's), (147, 63008), (203, 63143), (209, 63146), (230, 63197), (241, 63224), (251, 63272), (281, 63395), (291, 63428), (295, 63440), (326, 63530), (329, 63539), (336, 63569), (347, 63608), (352, 63620), (383, 63707), (389, 63728), (444, 63917),

Gene: Patos_30 Start: 25228, Stop: 26352, Start Num: 47
Candidate Starts for Patos_30:
(Start: 47 @25228 has 48 MA's), (48, 25234), (Start: 52 @25240 has 1 MA's), (73, 25285), (82, 25309), (108, 25396), (128, 25453), (146, 25498), (165, 25540), (172, 25564), (196, 25627), (235, 25666), (275, 25741), (281, 25771), (307, 25852), (318, 25888), (368, 26041), (395, 26122), (407, 26143), (427, 26221), (447, 26302),

Gene: PetriParty_25 Start: 19561, Stop: 20691, Start Num: 49
Candidate Starts for PetriParty_25:
(Start: 49 @19561 has 26 MA's), (86, 19657), (114, 19765), (116, 19774), (118, 19780), (138, 19831), (151, 19867), (169, 19915), (187, 19957), (192, 19969), (233, 20017), (277, 20113), (288, 20152), (297, 20176), (301, 20185), (322, 20257), (339, 20314), (344, 20332), (393, 20473),

Gene: Phives_20 Start: 16011, Stop: 17453, Start Num: 45
Candidate Starts for Phives_20:
(Start: 45 @16011 has 59 MA's), (71, 16071), (73, 16077), (92, 16134), (100, 16155), (129, 16248), (182, 16365), (196, 16413), (216, 16533), (248, 16752), (340, 17082), (376, 17184), (382, 17202), (448, 17421),

Gene: Phrampa_85 Start: 60127, Stop: 61239, Start Num: 80
Candidate Starts for Phrampa_85:
(Start: 80 @60127 has 19 MA's), (107, 60220), (111, 60241), (147, 60313), (203, 60448), (241, 60529), (281, 60694), (291, 60727), (295, 60739), (326, 60829), (347, 60907), (349, 60913), (356, 60931), (365, 60952), (389, 61027), (407, 61063), (444, 61216),

Gene: Picard_19 Start: 14321, Stop: 15451, Start Num: 62
Candidate Starts for Picard_19:
(Start: 62 @14321 has 15 MA's), (106, 14465), (111, 14489), (133, 14552), (151, 14600), (256, 14774), (267, 14810), (269, 14816), (311, 14957), (348, 15083), (354, 15095), (406, 15242),

Gene: PinkFriday_16 Start: 14431, Stop: 15588, Start Num: 67
Candidate Starts for PinkFriday_16:
(Start: 67 @14431 has 83 MA's), (Start: 69 @14434 has 15 MA's), (86, 14461), (Start: 88 @14470 has 1 MA's), (97, 14497), (103, 14524), (124, 14590), (155, 14656), (210, 14800), (217, 14809), (250, 14911), (302, 15094), (306, 15106), (324, 15160), (335, 15202), (345, 15238), (385, 15346), (389, 15361), (407, 15397), (408, 15400), (436, 15517), (449, 15571), (452, 15583),

Gene: PitaDog_16 Start: 14398, Stop: 15552, Start Num: 67
Candidate Starts for PitaDog_16:
(Start: 67 @14398 has 83 MA's), (Start: 69 @14401 has 15 MA's), (86, 14428), (103, 14491), (113, 14533), (124, 14557), (147, 14602), (236, 14833), (249, 14872), (252, 14884), (280, 14992), (293, 15034), (305, 15067), (323, 15121), (335, 15166), (345, 15202), (349, 15214), (379, 15292), (407, 15361), (425, 15436), (429, 15451), (436, 15481), (442, 15514), (451, 15544),

Gene: Pixelle_19 Start: 14954, Stop: 16396, Start Num: 45
Candidate Starts for Pixelle_19:
(Start: 45 @14954 has 59 MA's), (71, 15014), (73, 15020), (92, 15077), (182, 15308), (196, 15356), (197, 15362), (216, 15476), (248, 15695), (340, 16025), (376, 16127), (382, 16145), (448, 16364),

Gene: Popper_25 Start: 19896, Stop: 20999, Start Num: 49
Candidate Starts for Popper_25:
(Start: 49 @19896 has 26 MA's), (78, 19965), (86, 19992), (96, 20025), (114, 20073), (138, 20139), (154, 20181), (169, 20223), (192, 20277), (205, 20301), (236, 20334), (258, 20355), (297, 20484), (339, 20622), (393, 20781), (401, 20796), (432, 20910), (449, 20973), (451, 20982),

Gene: Potatoes_20 Start: 16037, Stop: 17194, Start Num: 67
Candidate Starts for Potatoes_20:
(Start: 67 @16037 has 83 MA's), (Start: 69 @16040 has 15 MA's), (Start: 84 @16061 has 3 MA's), (86, 16067), (105, 16136), (147, 16241), (185, 16334), (195, 16364), (236, 16472), (250, 16517), (292, 16670), (302, 16700), (316, 16748), (323, 16763), (333, 16799), (345, 16844), (394, 16979), (407, 17003), (428, 17090), (442, 17156), (444, 17162), (452, 17189),

Gene: Powerpuff_19 Start: 14970, Stop: 16091, Start Num: 45
Candidate Starts for Powerpuff_19:
(Start: 45 @14970 has 59 MA's), (71, 15030), (92, 15093), (100, 15114), (183, 15327), (197, 15378), (202, 15384), (306, 15606), (376, 15822), (382, 15840), (408, 15900),

Gene: PrairieDogTown_20 Start: 16071, Stop: 17120, Start Num: 46
Candidate Starts for PrairieDogTown_20:
(Start: 46 @16071 has 15 MA's), (Start: 88 @16176 has 1 MA's), (153, 16341), (182, 16407), (333, 16737), (343, 16773), (443, 17094),

Gene: Preamble_16 Start: 14408, Stop: 15562, Start Num: 67
Candidate Starts for Preamble_16:
(Start: 67 @14408 has 83 MA's), (Start: 69 @14411 has 15 MA's), (Start: 84 @14432 has 3 MA's), (103, 14501), (145, 14606), (147, 14612), (155, 14633), (217, 14786), (228, 14819), (236, 14843), (249, 14882), (252, 14894), (305, 15077), (316, 15116), (328, 15146), (335, 15176), (345, 15212), (407, 15371), (429, 15461), (436, 15491), (452, 15557),

Gene: Pterodactyl_16 Start: 14391, Stop: 15542, Start Num: 69
Candidate Starts for Pterodactyl_16:
(Start: 67 @14388 has 83 MA's), (Start: 69 @14391 has 15 MA's), (86, 14418), (103, 14481), (113, 14523), (124, 14547), (147, 14592), (236, 14823), (249, 14862), (252, 14874), (280, 14982), (293, 15024), (305, 15057), (323, 15111), (335, 15156), (345, 15192), (349, 15204), (379, 15282), (407, 15351), (425, 15426), (429, 15441), (436, 15471), (442, 15504), (451, 15534),

Gene: Pumancara_16 Start: 14412, Stop: 15569, Start Num: 67
Candidate Starts for Pumancara_16:
(Start: 67 @14412 has 83 MA's), (Start: 69 @14415 has 15 MA's), (86, 14442), (Start: 88 @14451 has 1 MA's), (97, 14478), (147, 14616), (176, 14688), (250, 14892), (277, 14988), (296, 15057), (316, 15123), (345, 15219), (385, 15327), (389, 15342), (396, 15357), (407, 15378), (409, 15384), (425, 15453), (436, 15498), (442, 15531),

Gene: Pumpkins_19 Start: 15036, Stop: 16157, Start Num: 45
Candidate Starts for Pumpkins_19:
(14, 14664), (18, 14709), (Start: 45 @15036 has 59 MA's), (97, 15171), (100, 15180), (128, 15270), (197, 15444), (202, 15450), (382, 15906),

Gene: Pywacket_28 Start: 26136, Stop: 27260, Start Num: 47
Candidate Starts for Pywacket_28:
(Start: 47 @26136 has 48 MA's), (48, 26142), (Start: 52 @26148 has 1 MA's), (73, 26193), (82, 26217), (108, 26304), (128, 26361), (146, 26406), (165, 26448), (235, 26574), (275, 26649), (281, 26679), (307, 26760), (318, 26796), (368, 26949), (395, 27030), (407, 27051), (427, 27129), (447, 27210),

Gene: QuinnAvery_27 Start: 20054, Stop: 21157, Start Num: 49
Candidate Starts for QuinnAvery_27:
(Start: 49 @20054 has 26 MA's), (78, 20123), (86, 20150), (96, 20183), (114, 20231), (130, 20279), (138, 20297), (169, 20381), (186, 20420), (297, 20642), (322, 20723), (330, 20741), (339, 20780), (393, 20939), (432, 21068), (449, 21131), (451, 21140),

Gene: RAP15_20 Start: 16042, Stop: 17199, Start Num: 67
Candidate Starts for RAP15_20:
(Start: 67 @16042 has 83 MA's), (Start: 69 @16045 has 15 MA's), (Start: 84 @16066 has 3 MA's), (105, 16141), (124, 16201), (147, 16246), (155, 16267), (185, 16339), (195, 16369), (236, 16477), (250, 16522), (292, 16675), (302, 16705), (316, 16753), (333, 16804), (345, 16849), (394, 16984), (407, 17008), (428, 17095), (442, 17161), (444, 17167), (452, 17194),

Gene: Racecar_94 Start: 62603, Stop: 63721, Start Num: 80
Candidate Starts for Racecar_94:
(Start: 80 @62603 has 19 MA's), (146, 62786), (147, 62789), (203, 62924), (221, 62948), (230, 62978), (241, 63005), (251, 63053), (281, 63176), (291, 63209), (295, 63221), (326, 63311), (329, 63320), (336, 63350), (347, 63389), (352, 63401), (383, 63488), (389, 63509), (444, 63698),

Gene: Raleigh_19 Start: 14995, Stop: 16095, Start Num: 58
Candidate Starts for Raleigh_19:

(16, 14605), (23, 14719), (27, 14818), (Start: 45 @14962 has 59 MA's), (50, 14980), (Start: 58 @14995 has 4 MA's), (102, 15124), (106, 15145), (299, 15586), (400, 15898), (440, 16036), (449, 16075), (451, 16081),

Gene: Ranch_29 Start: 24142, Stop: 25266, Start Num: 47
Candidate Starts for Ranch_29:
(Start: 47 @24142 has 48 MA's), (48, 24148), (Start: 52 @24154 has 1 MA's), (73, 24199), (82, 24223), (108, 24310), (128, 24367), (146, 24412), (165, 24454), (172, 24478), (196, 24541), (235, 24580), (275, 24655), (281, 24685), (307, 24766), (318, 24802), (368, 24955), (395, 25036), (407, 25057), (427, 25135), (447, 25216),

Gene: RazorC_27 Start: 23612, Stop: 24736, Start Num: 47
Candidate Starts for RazorC_27:
(Start: 47 @23612 has 48 MA's), (48, 23618), (Start: 52 @23624 has 1 MA's), (73, 23669), (82, 23693), (108, 23780), (128, 23837), (146, 23882), (165, 23924), (172, 23948), (235, 24050), (275, 24125), (281, 24155), (307, 24236), (318, 24272), (368, 24425), (379, 24458), (427, 24605), (447, 24686),

Gene: RcigaStruga_20 Start: 16038, Stop: 17195, Start Num: 67
Candidate Starts for RcigaStruga_20:
(Start: 67 @16038 has 83 MA's), (Start: 69 @16041 has 15 MA's), (Start: 84 @16062 has 3 MA's), (86, 16068), (Start: 88 @16077 has 1 MA's), (147, 16242), (155, 16263), (250, 16518), (292, 16671), (316, 16749), (323, 16764), (333, 16800), (345, 16845), (359, 16878), (394, 16980), (407, 17004), (435, 17118), (444, 17163),

Gene: Reedo_18 Start: 13956, Stop: 15140, Start Num: 69
Candidate Starts for Reedo_18:
(Start: 67 @13953 has 83 MA's), (Start: 69 @13956 has 15 MA's), (Start: 84 @13974 has 3 MA's), (92, 14004), (103, 14043), (135, 14121), (138, 14130), (155, 14175), (251, 14463), (262, 14505), (328, 14727), (333, 14748), (338, 14766), (345, 14793), (359, 14826), (428, 15039), (437, 15072), (442, 15102), (446, 15114),

Gene: ReginaGlobina_93 Start: 62612, Stop: 63730, Start Num: 80
Candidate Starts for ReginaGlobina_93:
(Start: 80 @62612 has 19 MA's), (146, 62795), (147, 62798), (230, 62990), (241, 63017), (275, 63155), (281, 63185), (291, 63218), (295, 63230), (296, 63233), (326, 63320), (333, 63347), (336, 63359), (347, 63398), (376, 63476), (423, 63617), (444, 63707),

Gene: RemusLoopin_15 Start: 12317, Stop: 13417, Start Num: 59
Candidate Starts for RemusLoopin_15:
(Start: 57 @12314 has 1 MA's), (Start: 59 @12317 has 2 MA's), (70, 12341), (86, 12386), (103, 12443), (111, 12473), (118, 12497), (119, 12500), (132, 12533), (175, 12635), (188, 12674), (201, 12710), (337, 13019), (346, 13052), (350, 13064), (357, 13082), (376, 13136), (392, 13184), (397, 13196), (412, 13232), (423, 13280), (429, 13301), (440, 13346), (451, 13391),

Gene: Riduram_26 Start: 23190, Stop: 24314, Start Num: 47
Candidate Starts for Riduram_26:
(Start: 47 @23190 has 48 MA's), (48, 23196), (Start: 52 @23202 has 1 MA's), (73, 23247), (82, 23271), (108, 23358), (128, 23415), (146, 23460), (165, 23502), (172, 23526), (235, 23628), (275, 23703), (281, 23733), (307, 23814), (318, 23850), (368, 24003), (379, 24036), (427, 24183), (447, 24264),

Gene: Riovina_16 Start: 14401, Stop: 15558, Start Num: 67
Candidate Starts for Riovina_16:

(Start: 67 @14401 has 83 MA's), (Start: 69 @14404 has 15 MA's), (86, 14431), (Start: 88 @14440 has 1 MA's), (97, 14467), (111, 14530), (176, 14677), (250, 14881), (316, 15112), (323, 15127), (345, 15208), (389, 15331), (407, 15367), (408, 15370), (425, 15442), (436, 15487), (452, 15553),

Gene: Riparian_29 Start: 22907, Stop: 24094, Start Num: 43
Candidate Starts for Riparian_29:
(28, 22802), (29, 22808), (Start: 43 @22907 has 13 MA's), (50, 22934), (Start: 52 @22937 has 1 MA's), (75, 22982), (Start: 79 @22994 has 1 MA's), (82, 23003), (128, 23168), (172, 23279), (183, 23297), (208, 23375), (225, 23384), (235, 23399), (318, 23621), (323, 23633), (368, 23774), (370, 23777), (408, 23882), (419, 23927), (427, 23957), (433, 23981), (436, 23993), (437, 23996), (448, 24044), (454, 24083),

Gene: Riverdale_20 Start: 15972, Stop: 17129, Start Num: 67
Candidate Starts for Riverdale_20:
(Start: 67 @15972 has 83 MA's), (Start: 69 @15975 has 15 MA's), (Start: 84 @15996 has 3 MA's), (105, 16071), (155, 16197), (195, 16299), (236, 16407), (250, 16452), (292, 16605), (316, 16683), (333, 16734), (345, 16779), (394, 16914), (407, 16938), (409, 16944), (442, 17091), (444, 17097), (452, 17124),

Gene: Roberts_23 Start: 15285, Stop: 16382, Start Num: 51
Candidate Starts for Roberts_23:
(Start: 51 @15285 has 16 MA's), (66, 15327), (85, 15375), (96, 15411), (157, 15558), (192, 15648), (256, 15726), (271, 15777), (322, 15936), (339, 15993), (360, 16053), (400, 16170),

Gene: RockScotty_19 Start: 14619, Stop: 16067, Start Num: 45
Candidate Starts for RockScotty_19:
(Start: 45 @14619 has 59 MA's), (Start: 68 @14673 has 1 MA's), (197, 15027), (202, 15033), (305, 15579), (321, 15630), (385, 15825),

Gene: Rockabye_92 Start: 63356, Stop: 64468, Start Num: 80
Candidate Starts for Rockabye_92:
(Start: 80 @63356 has 19 MA's), (166, 63584), (235, 63743), (239, 63752), (241, 63758), (281, 63923), (286, 63938), (295, 63968), (328, 64067), (349, 64145), (352, 64151), (429, 64379), (435, 64400), (444, 64445),

Gene: Rope_29 Start: 23093, Stop: 24280, Start Num: 43
Candidate Starts for Rope_29:
(28, 22988), (29, 22994), (Start: 43 @23093 has 13 MA's), (50, 23120), (Start: 52 @23123 has 1 MA's), (75, 23168), (Start: 79 @23180 has 1 MA's), (82, 23189), (128, 23354), (172, 23465), (183, 23483), (208, 23561), (225, 23570), (235, 23585), (236, 23588), (318, 23807), (323, 23819), (368, 23960), (370, 23963), (408, 24068), (419, 24113), (427, 24143), (433, 24167), (436, 24179), (437, 24182), (448, 24230), (454, 24269),

Gene: Rota_28 Start: 25495, Stop: 26619, Start Num: 47
Candidate Starts for Rota_28:
(Start: 47 @25495 has 48 MA's), (48, 25501), (Start: 52 @25507 has 1 MA's), (73, 25552), (82, 25576), (108, 25663), (128, 25720), (146, 25765), (165, 25807), (235, 25933), (275, 26008), (281, 26038), (307, 26119), (318, 26155), (368, 26308), (395, 26389), (407, 26410), (427, 26488), (447, 26569),

Gene: Rozby_20 Start: 15973, Stop: 17130, Start Num: 67
Candidate Starts for Rozby_20:
(Start: 67 @15973 has 83 MA's), (Start: 69 @15976 has 15 MA's), (Start: 84 @15997 has 3 MA's), (105, 16072), (124, 16132), (147, 16177), (155, 16198), (195, 16300), (236, 16408), (250, 16453),

(292, 16606), (302, 16636), (316, 16684), (323, 16699), (333, 16735), (345, 16780), (394, 16915), (407, 16939), (409, 16945), (442, 17092), (444, 17098), (452, 17125),

Gene: Rukungu_29 Start: 25844, Stop: 26968, Start Num: 47
Candidate Starts for Rukungu_29:
(Start: 47 @25844 has 48 MA's), (48, 25850), (Start: 52 @25856 has 1 MA's), (73, 25901), (82, 25925), (108, 26012), (128, 26069), (146, 26114), (165, 26156), (172, 26180), (196, 26243), (235, 26282), (275, 26357), (281, 26387), (307, 26468), (318, 26504), (368, 26657), (395, 26738), (407, 26759), (427, 26837), (447, 26918),

Gene: Rumi_28 Start: 23223, Stop: 24347, Start Num: 47
Candidate Starts for Rumi_28:
(Start: 47 @23223 has 48 MA's), (48, 23229), (Start: 52 @23235 has 1 MA's), (73, 23280), (82, 23304), (108, 23391), (128, 23448), (146, 23493), (165, 23535), (172, 23559), (235, 23661), (275, 23736), (281, 23766), (307, 23847), (318, 23883), (368, 24036), (379, 24069), (427, 24216), (447, 24297),

Gene: Ryan_27 Start: 20581, Stop: 21684, Start Num: 49
Candidate Starts for Ryan_27:
(Start: 49 @20581 has 26 MA's), (78, 20650), (86, 20677), (93, 20701), (96, 20710), (114, 20758), (151, 20860), (154, 20866), (192, 20962), (339, 21307), (393, 21466), (401, 21481), (406, 21493), (432, 21595), (447, 21652), (449, 21658), (451, 21667),

Gene: SJReid_96 Start: 62409, Stop: 63521, Start Num: 80
Candidate Starts for SJReid_96:
(Start: 80 @62409 has 19 MA's), (103, 62487), (166, 62637), (193, 62709), (235, 62796), (239, 62805), (241, 62811), (281, 62976), (295, 63021), (323, 63105), (328, 63120), (349, 63198), (352, 63204), (389, 63309), (429, 63432), (435, 63453), (444, 63498),

Gene: SV1_19 Start: 14433, Stop: 15563, Start Num: 62
Candidate Starts for SV1_19:
(55, 14418), (Start: 62 @14433 has 15 MA's), (106, 14577), (117, 14622), (126, 14646), (170, 14763), (256, 14886), (269, 14928), (271, 14937), (310, 15066), (329, 15123), (348, 15195), (354, 15207), (360, 15225), (376, 15276), (406, 15354),

Gene: Sabourin_19 Start: 14526, Stop: 15974, Start Num: 45
Candidate Starts for Sabourin_19:
(Start: 45 @14526 has 59 MA's), (Start: 68 @14580 has 1 MA's), (187, 14904), (197, 14934), (305, 15486), (385, 15732),

Gene: Sadboi_29 Start: 25984, Stop: 27108, Start Num: 47
Candidate Starts for Sadboi_29:
(Start: 47 @25984 has 48 MA's), (48, 25990), (Start: 52 @25996 has 1 MA's), (73, 26041), (82, 26065), (108, 26152), (128, 26209), (146, 26254), (165, 26296), (172, 26320), (196, 26383), (235, 26422), (275, 26497), (281, 26527), (307, 26608), (318, 26644), (368, 26797), (395, 26878), (407, 26899), (427, 26977), (447, 27058),

Gene: Saintcarr_27 Start: 20137, Stop: 21240, Start Num: 49
Candidate Starts for Saintcarr_27:
(Start: 49 @20137 has 26 MA's), (78, 20206), (86, 20233), (96, 20266), (114, 20314), (138, 20380), (154, 20422), (186, 20503), (297, 20725), (322, 20806), (330, 20824), (339, 20863), (393, 21022), (432, 21151), (449, 21214), (451, 21223),

Gene: Samora_15 Start: 12384, Stop: 13424, Start Num: 63

Candidate Starts for Samora_15:
(Start: 63 @12384 has 6 MA's), (Start: 84 @12441 has 3 MA's), (103, 12504), (119, 12561), (120, 12564), (133, 12597), (153, 12639), (168, 12678), (169, 12681), (275, 12831), (323, 12990), (327, 13002), (330, 13011), (337, 13032), (364, 13113), (373, 13131), (376, 13149), (427, 13308), (429, 13314), (433, 13332), (445, 13383),

Gene: Sampudon_29 Start: 26151, Stop: 27275, Start Num: 47
Candidate Starts for Sampudon_29:
(Start: 47 @26151 has 48 MA's), (48, 26157), (Start: 52 @26163 has 1 MA's), (73, 26208), (82, 26232), (108, 26319), (128, 26376), (146, 26421), (165, 26463), (235, 26589), (275, 26664), (281, 26694), (307, 26775), (318, 26811), (368, 26964), (395, 27045), (407, 27066), (427, 27144), (447, 27225),

Gene: Sashimi_27 Start: 19113, Stop: 20237, Start Num: 51
Candidate Starts for Sashimi_27:
(Start: 51 @19113 has 16 MA's), (56, 19131), (78, 19179), (86, 19206), (96, 19239), (114, 19314), (138, 19377), (151, 19413), (169, 19461), (187, 19503), (192, 19515), (233, 19563), (277, 19659), (288, 19698), (339, 19860), (341, 19866), (344, 19878), (389, 20010), (393, 20019), (401, 20034), (447, 20205), (449, 20211),

Gene: Savage2526_20 Start: 16036, Stop: 17193, Start Num: 67
Candidate Starts for Savage2526_20:
(Start: 67 @16036 has 83 MA's), (Start: 69 @16039 has 15 MA's), (Start: 84 @16060 has 3 MA's), (105, 16135), (124, 16195), (147, 16240), (155, 16261), (185, 16333), (195, 16363), (236, 16471), (250, 16516), (292, 16669), (302, 16699), (316, 16747), (333, 16798), (345, 16843), (394, 16978), (407, 17002), (428, 17089), (442, 17155), (444, 17161), (452, 17188),

Gene: Schaffner_19 Start: 15023, Stop: 16144, Start Num: 45
Candidate Starts for Schaffner_19:
(Start: 45 @15023 has 59 MA's), (100, 15167), (128, 15257), (202, 15437), (382, 15893), (447, 16109),

Gene: Schism_27 Start: 19991, Stop: 21094, Start Num: 49
Candidate Starts for Schism_27:
(Start: 49 @19991 has 26 MA's), (78, 20060), (86, 20087), (96, 20120), (114, 20168), (151, 20270), (154, 20276), (192, 20372), (339, 20717), (393, 20876), (401, 20891), (406, 20903), (432, 21005), (447, 21062), (449, 21068), (451, 21077),

Gene: Scotia_21 Start: 16995, Stop: 18044, Start Num: 46
Candidate Starts for Scotia_21:
(15, 16623), (39, 16965), (Start: 46 @16995 has 15 MA's), (Start: 52 @17013 has 1 MA's), (109, 17169), (122, 17196), (145, 17244), (153, 17265), (182, 17331), (259, 17412), (325, 17637), (333, 17661), (341, 17691), (343, 17697), (358, 17739), (397, 17856), (430, 17958), (443, 18018), (445, 18024),

Gene: Scuttle_20 Start: 16041, Stop: 17198, Start Num: 67
Candidate Starts for Scuttle_20:
(Start: 67 @16041 has 83 MA's), (Start: 69 @16044 has 15 MA's), (Start: 84 @16065 has 3 MA's), (105, 16140), (155, 16266), (195, 16368), (236, 16476), (250, 16521), (292, 16674), (302, 16704), (316, 16752), (323, 16767), (333, 16803), (345, 16848), (394, 16983), (407, 17007), (409, 17013), (442, 17160), (444, 17166), (452, 17193),

Gene: Sebastisaurus_15 Start: 12349, Stop: 13407, Start Num: 59
Candidate Starts for Sebastisaurus_15:

(Start: 59 @12349 has 2 MA's), (70, 12373), (86, 12418), (103, 12475), (132, 12565), (171, 12658), (201, 12700), (337, 13009), (346, 13042), (376, 13126), (397, 13186), (421, 13261), (423, 13270), (440, 13336), (451, 13381),

Gene: Send513_29 Start: 23449, Stop: 24636, Start Num: 43
Candidate Starts for Send513_29:
(28, 23344), (29, 23350), (Start: 43 @23449 has 13 MA's), (50, 23476), (Start: 52 @23479 has 1 MA's), (75, 23524), (Start: 79 @23536 has 1 MA's), (82, 23545), (128, 23710), (172, 23821), (183, 23839), (208, 23917), (225, 23926), (235, 23941), (318, 24163), (323, 24175), (368, 24316), (370, 24319), (408, 24424), (419, 24469), (427, 24499), (433, 24523), (436, 24535), (437, 24538), (448, 24586), (454, 24625),

Gene: Sergei_16 Start: 14410, Stop: 15567, Start Num: 67
Candidate Starts for Sergei_16:
(Start: 67 @14410 has 83 MA's), (Start: 69 @14413 has 15 MA's), (Start: 84 @14434 has 3 MA's), (86, 14440), (Start: 88 @14449 has 1 MA's), (97, 14476), (147, 14614), (176, 14686), (250, 14890), (296, 15055), (316, 15121), (345, 15217), (385, 15325), (389, 15340), (396, 15355), (407, 15376), (409, 15382), (425, 15451), (436, 15496), (452, 15562),

Gene: ShakeItOph_18 Start: 13074, Stop: 14306, Start Num: 46
Candidate Starts for ShakeItOph_18:
(Start: 46 @13074 has 15 MA's), (108, 13269), (119, 13293), (229, 13644), (291, 13800), (321, 13890), (351, 13989), (411, 14145), (431, 14226),

Gene: Shambre1_19 Start: 15533, Stop: 16816, Start Num: 67
Candidate Starts for Shambre1_19:
(9, 15008), (11, 15047), (40, 15443), (Start: 67 @15533 has 83 MA's), (Start: 69 @15536 has 15 MA's), (97, 15617), (99, 15623), (108, 15668), (124, 15710), (147, 15755), (152, 15770), (187, 15857), (199, 15890), (236, 15977), (251, 16031), (254, 16043), (255, 16046), (265, 16085), (287, 16163), (345, 16361), (362, 16406), (381, 16457), (390, 16484), (402, 16508), (407, 16520), (415, 16550), (429, 16613), (437, 16643), (442, 16673),

Gene: Shawty_15 Start: 12323, Stop: 13369, Start Num: 63
Candidate Starts for Shawty_15:
(Start: 63 @12323 has 6 MA's), (Start: 84 @12380 has 3 MA's), (103, 12443), (119, 12500), (125, 12515), (127, 12521), (133, 12536), (169, 12620), (200, 12659), (201, 12662), (298, 12848), (307, 12881), (316, 12914), (318, 12917), (323, 12929), (337, 12971), (340, 12983), (371, 13073), (373, 13076), (376, 13094), (412, 13190), (422, 13232), (429, 13259),

Gene: Sienna_24 Start: 20204, Stop: 21337, Start Num: 47
Candidate Starts for Sienna_24:
(Start: 47 @20204 has 48 MA's), (92, 20321), (100, 20342), (104, 20354), (108, 20375), (110, 20384), (120, 20417), (197, 20615), (285, 20765), (315, 20858), (330, 20903), (334, 20921), (342, 20951), (349, 20975), (409, 21131), (411, 21137), (419, 21173), (427, 21203), (429, 21209), (437, 21242), (445, 21281),

Gene: Simpson_21 Start: 14919, Stop: 16040, Start Num: 45
Candidate Starts for Simpson_21:
(Start: 45 @14919 has 59 MA's), (71, 14979), (92, 15042), (100, 15063), (183, 15276), (197, 15327), (202, 15333), (306, 15555), (376, 15771), (382, 15789), (408, 15849),

Gene: Skelbel_20 Start: 14901, Stop: 16022, Start Num: 45
Candidate Starts for Skelbel_20:

(Start: 45 @14901 has 59 MA's), (71, 14961), (73, 14967), (92, 15024), (100, 15045), (197, 15309), (382, 15771),

Gene: Snek_18 Start: 12989, Stop: 14173, Start Num: 69
Candidate Starts for Snek_18:
(38, 12893), (Start: 67 @12986 has 83 MA's), (Start: 69 @12989 has 15 MA's), (92, 13037), (103, 13076), (108, 13100), (135, 13154), (138, 13163), (207, 13337), (296, 13658), (328, 13760), (333, 13781), (345, 13826), (388, 13946), (428, 14072), (437, 14105), (449, 14156),

Gene: SoJo_19 Start: 14651, Stop: 15748, Start Num: 62
Candidate Starts for SoJo_19:
(6, 13649), (7, 13706), (8, 14051), (10, 14168), (16, 14255), (27, 14459), (30, 14516), (33, 14555), (Start: 62 @14651 has 15 MA's), (117, 14840), (169, 14975), (187, 15020), (196, 15041), (311, 15281), (348, 15407), (376, 15485), (409, 15569), (410, 15572), (439, 15680), (451, 15731),

Gene: Sonali_18 Start: 18766, Stop: 19881, Start Num: 53
Candidate Starts for Sonali_18:
(Start: 53 @18766 has 3 MA's), (182, 19117), (284, 19315), (289, 19327), (303, 19366), (318, 19420), (350, 19528), (392, 19651), (411, 19693), (437, 19804), (440, 19816), (446, 19846), (453, 19873),

Gene: Soondubu_18 Start: 15573, Stop: 16658, Start Num: 45
Candidate Starts for Soondubu_18:
(Start: 45 @15573 has 59 MA's), (64, 15627), (162, 15885), (295, 16146), (351, 16323), (368, 16368), (439, 16593), (443, 16620), (452, 16650),

Gene: Sooty_19 Start: 14529, Stop: 15977, Start Num: 45
Candidate Starts for Sooty_19:
(Start: 45 @14529 has 59 MA's), (Start: 68 @14583 has 1 MA's), (187, 14907), (197, 14937), (305, 15489), (385, 15735),

Gene: Spartoi_17 Start: 13760, Stop: 14860, Start Num: 79
Candidate Starts for Spartoi_17:
(Start: 79 @13760 has 1 MA's), (87, 13781), (111, 13880), (137, 13940), (160, 13997), (177, 14042), (234, 14147), (268, 14249), (281, 14303), (398, 14660), (435, 14789),

Gene: SpecialK_19 Start: 14580, Stop: 15974, Start Num: 68
Candidate Starts for SpecialK_19:
(Start: 45 @14526 has 59 MA's), (Start: 68 @14580 has 1 MA's), (197, 14934), (202, 14940), (305, 15486), (321, 15537), (385, 15732),

Gene: Spocter_25 Start: 21152, Stop: 22249, Start Num: 62
Candidate Starts for Spocter_25:
(Start: 57 @21146 has 1 MA's), (Start: 62 @21152 has 15 MA's), (97, 21254), (108, 21308), (119, 21347), (133, 21383), (141, 21404), (148, 21422), (282, 21695), (294, 21728), (304, 21761), (311, 21782), (348, 21908), (387, 22019), (410, 22073),

Gene: Stewart25555_83 Start: 59117, Stop: 60238, Start Num: 80
Candidate Starts for Stewart25555_83:
(Start: 80 @59117 has 19 MA's), (107, 59210), (124, 59261), (146, 59300), (147, 59303), (171, 59360), (210, 59462), (241, 59525), (247, 59555), (261, 59609), (275, 59663), (281, 59693), (287, 59711), (295, 59738), (326, 59828), (328, 59834), (336, 59867), (347, 59906), (371, 59963), (411, 60074), (423, 60125), (444, 60215),

Gene: Stormer_27 Start: 23223, Stop: 24347, Start Num: 47
Candidate Starts for Stormer_27:
(Start: 47 @23223 has 48 MA's), (48, 23229), (Start: 52 @23235 has 1 MA's), (73, 23280), (82, 23304), (108, 23391), (128, 23448), (146, 23493), (165, 23535), (172, 23559), (235, 23661), (275, 23736), (281, 23766), (307, 23847), (318, 23883), (368, 24036), (379, 24069), (427, 24216), (447, 24297),

Gene: Studio_24 Start: 15927, Stop: 17021, Start Num: 51
Candidate Starts for Studio_24:
(Start: 51 @15927 has 16 MA's), (61, 15954), (71, 15978), (85, 16017), (90, 16035), (169, 16236), (197, 16308), (223, 16326), (271, 16419), (339, 16638), (361, 16698), (366, 16716), (400, 16809), (426, 16899), (451, 17004),

Gene: Stuu_19 Start: 14619, Stop: 16067, Start Num: 45
Candidate Starts for Stuu_19:
(Start: 45 @14619 has 59 MA's), (Start: 68 @14673 has 1 MA's), (187, 14997), (197, 15027), (305, 15579), (321, 15630), (385, 15825),

Gene: Subaru_19 Start: 14901, Stop: 16022, Start Num: 45
Candidate Starts for Subaru_19:
(Start: 45 @14901 has 59 MA's), (71, 14961), (73, 14967), (92, 15024), (100, 15045), (197, 15309), (382, 15771),

Gene: Sue2_18 Start: 14593, Stop: 15807, Start Num: 67
Candidate Starts for Sue2_18:
(Start: 67 @14593 has 83 MA's), (Start: 69 @14596 has 15 MA's), (89, 14638), (135, 14767), (138, 14776), (207, 14950), (212, 14986), (316, 15364), (333, 15415), (338, 15433), (345, 15460), (428, 15706), (437, 15739), (439, 15745),

Gene: Sunshine23_19 Start: 18778, Stop: 19893, Start Num: 53
Candidate Starts for Sunshine23_19:
(Start: 53 @18778 has 3 MA's), (182, 19129), (284, 19327), (289, 19339), (301, 19369), (303, 19378), (318, 19432), (350, 19540), (376, 19615), (392, 19663), (411, 19705), (437, 19816), (440, 19828), (446, 19858), (453, 19885),

Gene: Supakev_16 Start: 14403, Stop: 15560, Start Num: 67
Candidate Starts for Supakev_16:
(Start: 67 @14403 has 83 MA's), (Start: 69 @14406 has 15 MA's), (86, 14433), (Start: 88 @14442 has 1 MA's), (97, 14469), (111, 14532), (176, 14679), (250, 14883), (316, 15114), (323, 15129), (345, 15210), (389, 15333), (407, 15369), (408, 15372), (425, 15444), (436, 15489), (452, 15555),

Gene: Suppi_20 Start: 16074, Stop: 17231, Start Num: 67
Candidate Starts for Suppi_20:
(Start: 67 @16074 has 83 MA's), (Start: 69 @16077 has 15 MA's), (97, 16140), (147, 16278), (210, 16443), (292, 16707), (293, 16710), (296, 16719), (323, 16800), (345, 16881), (349, 16893), (379, 16971), (380, 16974), (389, 17004), (407, 17040), (444, 17199),

Gene: Suzy_24 Start: 21365, Stop: 22498, Start Num: 47
Candidate Starts for Suzy_24:
(Start: 47 @21365 has 48 MA's), (92, 21482), (100, 21503), (108, 21536), (110, 21545), (172, 21707), (285, 21926), (307, 21995), (327, 22055), (330, 22064), (334, 22082), (340, 22106), (349, 22136), (409, 22292), (411, 22298), (427, 22364), (429, 22370), (437, 22403), (445, 22442), (450, 22457),

Gene: TG1_15 Start: 12342, Stop: 13400, Start Num: 63

Candidate Starts for TG1_15:
(Start: 63 @12342 has 6 MA's), (Start: 68 @12357 has 1 MA's), (76, 12375), (103, 12462), (119, 12519), (133, 12555), (137, 12564), (149, 12588), (179, 12645), (200, 12684), (337, 12999), (350, 13044), (373, 13101), (382, 13137), (392, 13167), (403, 13188), (412, 13215), (427, 13278), (440, 13329), (445, 13353),

Gene: TMaxx_23 Start: 15095, Stop: 16195, Start Num: 51
Candidate Starts for TMaxx_23:
(Start: 51 @15095 has 16 MA's), (85, 15185), (90, 15203), (157, 15368), (187, 15446), (269, 15578), (307, 15704), (314, 15722), (322, 15746), (339, 15803), (451, 16178),

Gene: Talia1610_93 Start: 61968, Stop: 63086, Start Num: 80
Candidate Starts for Talia1610_93:
(Start: 80 @61968 has 19 MA's), (146, 62151), (147, 62154), (203, 62289), (221, 62313), (230, 62343), (241, 62370), (251, 62418), (281, 62541), (291, 62574), (295, 62586), (326, 62676), (329, 62685), (336, 62715), (347, 62754), (352, 62766), (383, 62853), (389, 62874), (444, 63063),

Gene: Tallboi_19 Start: 14933, Stop: 16054, Start Num: 45
Candidate Starts for Tallboi_19:
(Start: 45 @14933 has 59 MA's), (71, 14993), (73, 14999), (92, 15056), (100, 15077), (129, 15170), (197, 15341), (202, 15347), (306, 15569), (376, 15785), (382, 15803),

Gene: TattModd_20 Start: 16035, Stop: 17192, Start Num: 67
Candidate Starts for TattModd_20:
(Start: 67 @16035 has 83 MA's), (Start: 69 @16038 has 15 MA's), (Start: 84 @16059 has 3 MA's), (105, 16134), (124, 16194), (147, 16239), (155, 16260), (195, 16362), (236, 16470), (250, 16515), (292, 16668), (302, 16698), (316, 16746), (333, 16797), (345, 16842), (394, 16977), (407, 17001), (428, 17088), (442, 17154), (444, 17160), (452, 17187),

Gene: Tbone_19 Start: 14923, Stop: 16044, Start Num: 45
Candidate Starts for Tbone_19:
(Start: 45 @14923 has 59 MA's), (71, 14983), (92, 15046), (100, 15067), (183, 15280), (197, 15331), (202, 15337), (306, 15559), (376, 15775), (382, 15793), (408, 15853),

Gene: Temper16_16 Start: 14410, Stop: 15567, Start Num: 67
Candidate Starts for Temper16_16:
(Start: 67 @14410 has 83 MA's), (Start: 69 @14413 has 15 MA's), (Start: 84 @14434 has 3 MA's), (86, 14440), (Start: 88 @14449 has 1 MA's), (97, 14476), (147, 14614), (176, 14686), (250, 14890), (296, 15055), (316, 15121), (345, 15217), (385, 15325), (389, 15340), (396, 15355), (407, 15376), (409, 15382), (425, 15451), (436, 15496), (452, 15562),

Gene: Terapin_24 Start: 20204, Stop: 21337, Start Num: 47
Candidate Starts for Terapin_24:
(Start: 47 @20204 has 48 MA's), (92, 20321), (100, 20342), (104, 20354), (108, 20375), (110, 20384), (120, 20417), (172, 20546), (197, 20615), (285, 20765), (307, 20834), (315, 20858), (330, 20903), (334, 20921), (340, 20945), (349, 20975), (409, 21131), (411, 21137), (427, 21203), (429, 21209), (437, 21242), (445, 21281),

Gene: TforTroy_19 Start: 15054, Stop: 16175, Start Num: 45
Candidate Starts for TforTroy_19:
(Start: 45 @15054 has 59 MA's), (97, 15189), (100, 15198), (128, 15288), (197, 15462), (202, 15468), (235, 15501), (382, 15924),

Gene: ThursdayNight_18 Start: 13656, Stop: 14744, Start Num: 45
Candidate Starts for ThursdayNight_18:
(Start: 45 @13656 has 59 MA's), (Start: 68 @13710 has 1 MA's), (92, 13779), (331, 14334), (376, 14475), (382, 14493),

Gene: Tian_19 Start: 14951, Stop: 16393, Start Num: 45
Candidate Starts for Tian_19:
(Start: 45 @14951 has 59 MA's), (71, 15011), (73, 15017), (92, 15074), (100, 15095), (182, 15305), (196, 15353), (216, 15473), (248, 15692), (340, 16022), (376, 16124), (382, 16142), (448, 16361),

Gene: Tillicus_28 Start: 24557, Stop: 25681, Start Num: 47
Candidate Starts for Tillicus_28:
(Start: 47 @24557 has 48 MA's), (48, 24563), (73, 24614), (82, 24638), (108, 24725), (128, 24782), (146, 24827), (165, 24869), (171, 24890), (172, 24893), (196, 24956), (235, 24995), (236, 24998), (275, 25070), (281, 25100), (307, 25181), (318, 25217), (368, 25370), (407, 25472), (409, 25478), (427, 25550),

Gene: ToastyFinz_18 Start: 14328, Stop: 15425, Start Num: 62
Candidate Starts for ToastyFinz_18:
(35, 14241), (Start: 62 @14328 has 15 MA's), (70, 14349), (Start: 79 @14376 has 1 MA's), (86, 14394), (111, 14496), (169, 14652), (187, 14697), (300, 14916), (301, 14919), (345, 15075), (348, 15084), (409, 15246), (410, 15249), (414, 15264), (451, 15408),

Gene: ToastyOats_29 Start: 20595, Stop: 21698, Start Num: 49
Candidate Starts for ToastyOats_29:
(Start: 49 @20595 has 26 MA's), (78, 20664), (86, 20691), (96, 20724), (114, 20772), (138, 20838), (154, 20880), (186, 20961), (297, 21183), (322, 21264), (330, 21282), (339, 21321), (393, 21480), (432, 21609), (449, 21672), (451, 21681),

Gene: Toodles_27 Start: 20421, Stop: 21524, Start Num: 49
Candidate Starts for Toodles_27:
(Start: 49 @20421 has 26 MA's), (78, 20490), (86, 20517), (96, 20550), (114, 20598), (130, 20646), (138, 20664), (151, 20700), (154, 20706), (169, 20748), (230, 20844), (275, 20937), (288, 20985), (322, 21090), (330, 21108), (339, 21147), (393, 21306), (432, 21435), (449, 21498), (451, 21507),

Gene: TripleC_26 Start: 18583, Stop: 19683, Start Num: 51
Candidate Starts for TripleC_26:
(Start: 51 @18583 has 16 MA's), (85, 18673), (90, 18691), (96, 18709), (112, 18754), (150, 18841), (157, 18856), (161, 18865), (276, 19093), (277, 19099), (339, 19294), (400, 19471), (404, 19480), (423, 19552), (451, 19666),

Gene: TripleJ_26 Start: 19578, Stop: 20708, Start Num: 49
Candidate Starts for TripleJ_26:
(Start: 49 @19578 has 26 MA's), (86, 19674), (114, 19782), (116, 19791), (118, 19797), (138, 19848), (151, 19884), (169, 19932), (192, 19986), (233, 20034), (271, 20109), (277, 20130), (288, 20169), (297, 20193), (322, 20274), (339, 20331), (344, 20349), (393, 20490),

Gene: Tubberson_19 Start: 14650, Stop: 15747, Start Num: 62
Candidate Starts for Tubberson_19:
(Start: 62 @14650 has 15 MA's), (117, 14839), (169, 14974), (187, 15019), (196, 15040), (311, 15280), (348, 15406), (376, 15484), (400, 15547), (409, 15568), (410, 15571), (439, 15679), (451, 15730),

Gene: Tuck_20 Start: 16127, Stop: 17569, Start Num: 45

Candidate Starts for Tuck_20:
(Start: 45 @16127 has 59 MA's), (71, 16187), (73, 16193), (92, 16250), (182, 16481), (202, 16541), (245, 16835), (246, 16856), (382, 17318), (410, 17384),

Gene: Turab_19 Start: 14930, Stop: 16051, Start Num: 45
Candidate Starts for Turab_19:
(Start: 45 @14930 has 59 MA's), (71, 14990), (92, 15053), (100, 15074), (197, 15338), (262, 15422), (376, 15782), (382, 15800), (408, 15860),

Gene: Tutumahutu_19 Start: 14970, Stop: 16091, Start Num: 45
Candidate Starts for Tutumahutu_19:
(Start: 45 @14970 has 59 MA's), (71, 15030), (92, 15093), (100, 15114), (183, 15327), (197, 15378), (202, 15384), (306, 15606), (376, 15822), (382, 15840), (408, 15900),

Gene: Tweety19_18 Start: 12988, Stop: 14172, Start Num: 69
Candidate Starts for Tweety19_18:
(38, 12892), (Start: 67 @12985 has 83 MA's), (Start: 69 @12988 has 15 MA's), (92, 13036), (103, 13075), (108, 13099), (135, 13153), (138, 13162), (207, 13336), (296, 13657), (328, 13759), (333, 13780), (345, 13825), (388, 13945), (428, 14071), (437, 14104), (449, 14155),

Gene: Urla_16 Start: 14417, Stop: 15574, Start Num: 67
Candidate Starts for Urla_16:
(Start: 67 @14417 has 83 MA's), (Start: 69 @14420 has 15 MA's), (86, 14447), (147, 14621), (210, 14786), (217, 14795), (223, 14813), (228, 14828), (316, 15128), (333, 15179), (335, 15188), (345, 15224), (381, 15320), (394, 15359), (407, 15383), (444, 15542), (452, 15569),

Gene: VResidence_18 Start: 14006, Stop: 15220, Start Num: 67
Candidate Starts for VResidence_18:
(Start: 67 @14006 has 83 MA's), (Start: 69 @14009 has 15 MA's), (89, 14051), (103, 14102), (138, 14189), (191, 14324), (251, 14543), (262, 14585), (277, 14636), (333, 14828), (345, 14873), (373, 14939), (379, 14963), (407, 15032), (428, 15119), (437, 15152),

Gene: Vallejo_20 Start: 15974, Stop: 17131, Start Num: 67
Candidate Starts for Vallejo_20:
(Start: 67 @15974 has 83 MA's), (Start: 69 @15977 has 15 MA's), (Start: 84 @15998 has 3 MA's), (105, 16073), (155, 16199), (195, 16301), (236, 16409), (250, 16454), (292, 16607), (302, 16637), (316, 16685), (323, 16700), (333, 16736), (345, 16781), (394, 16916), (407, 16940), (409, 16946), (437, 17063), (442, 17093), (444, 17099), (452, 17126),

Gene: Vash_15 Start: 12359, Stop: 13456, Start Num: 63
Candidate Starts for Vash_15:
(Start: 63 @12359 has 6 MA's), (Start: 84 @12416 has 3 MA's), (103, 12479), (119, 12536), (120, 12539), (132, 12569), (174, 12668), (306, 12968), (314, 12989), (327, 13028), (330, 13037), (346, 13091), (350, 13103), (375, 13160), (383, 13196), (397, 13235), (412, 13271), (418, 13292), (422, 13313), (429, 13340), (432, 13355), (440, 13385), (445, 13409), (451, 13430),

Gene: VroomVroom_18 Start: 13087, Stop: 14322, Start Num: 46
Candidate Starts for VroomVroom_18:
(Start: 46 @13087 has 15 MA's), (108, 13282), (119, 13306), (208, 13528), (229, 13657), (291, 13813), (321, 13906), (351, 14005), (411, 14161), (431, 14242),

Gene: Vulture_16 Start: 14401, Stop: 15558, Start Num: 67
Candidate Starts for Vulture_16:

(Start: 67 @14401 has 83 MA's), (Start: 69 @14404 has 15 MA's), (86, 14431), (Start: 88 @14440 has 1 MA's), (97, 14467), (105, 14500), (176, 14677), (250, 14881), (316, 15112), (323, 15127), (345, 15208), (389, 15331), (407, 15367), (408, 15370), (425, 15442), (436, 15487), (452, 15553),

Gene: WaddleDee_81 Start: 58452, Stop: 59570, Start Num: 80
Candidate Starts for WaddleDee_81:
(Start: 80 @58452 has 19 MA's), (107, 58545), (147, 58638), (235, 58842), (241, 58857), (275, 58995), (281, 59025), (295, 59070), (296, 59073), (309, 59115), (336, 59199), (347, 59238), (352, 59250), (444, 59547),

Gene: Warda_19 Start: 14915, Stop: 16036, Start Num: 45
Candidate Starts for Warda_19:
(Start: 45 @14915 has 59 MA's), (71, 14975), (92, 15038), (100, 15059), (183, 15272), (197, 15323), (202, 15329), (306, 15551), (376, 15767), (382, 15785), (408, 15845),

Gene: Wawa_20 Start: 16011, Stop: 17168, Start Num: 67
Candidate Starts for Wawa_20:
(Start: 67 @16011 has 83 MA's), (Start: 69 @16014 has 15 MA's), (Start: 84 @16035 has 3 MA's), (105, 16110), (124, 16170), (147, 16215), (155, 16236), (195, 16338), (236, 16446), (250, 16491), (292, 16644), (302, 16674), (316, 16722), (333, 16773), (345, 16818), (394, 16953), (407, 16977), (428, 17064), (442, 17130), (444, 17136), (452, 17163),

Gene: Wayne_20 Start: 16120, Stop: 17277, Start Num: 67
Candidate Starts for Wayne_20:
(Start: 67 @16120 has 83 MA's), (Start: 69 @16123 has 15 MA's), (97, 16186), (147, 16324), (210, 16489), (292, 16753), (293, 16756), (296, 16765), (323, 16846), (345, 16927), (349, 16939), (379, 17017), (389, 17050), (407, 17086), (408, 17089), (444, 17245),

Gene: Weiss13_29 Start: 23139, Stop: 24326, Start Num: 43
Candidate Starts for Weiss13_29:
(28, 23034), (29, 23040), (Start: 43 @23139 has 13 MA's), (50, 23166), (Start: 52 @23169 has 1 MA's), (75, 23214), (Start: 79 @23226 has 1 MA's), (82, 23235), (128, 23400), (172, 23511), (183, 23529), (208, 23607), (225, 23616), (235, 23631), (318, 23853), (323, 23865), (368, 24006), (370, 24009), (408, 24114), (419, 24159), (427, 24189), (433, 24213), (436, 24225), (437, 24228), (448, 24276), (454, 24315),

Gene: Wildwest_19 Start: 15358, Stop: 16572, Start Num: 67
Candidate Starts for Wildwest_19:
(Start: 67 @15358 has 83 MA's), (Start: 69 @15361 has 15 MA's), (138, 15541), (204, 15709), (207, 15715), (211, 15745), (212, 15751), (249, 15886), (250, 15892), (262, 15937), (296, 16057), (333, 16180), (338, 16198), (345, 16225), (381, 16321), (428, 16471), (437, 16504), (449, 16555),

Gene: Wojtek_28 Start: 24861, Stop: 25985, Start Num: 47
Candidate Starts for Wojtek_28:
(Start: 47 @24861 has 48 MA's), (48, 24867), (Start: 52 @24873 has 1 MA's), (73, 24918), (82, 24942), (108, 25029), (128, 25086), (146, 25131), (165, 25173), (172, 25197), (196, 25260), (235, 25299), (275, 25374), (281, 25404), (307, 25485), (318, 25521), (328, 25548), (368, 25674), (427, 25854),

Gene: WonderBoy_16 Start: 14388, Stop: 15542, Start Num: 67
Candidate Starts for WonderBoy_16:
(Start: 67 @14388 has 83 MA's), (Start: 69 @14391 has 15 MA's), (86, 14418), (103, 14481), (113, 14523), (124, 14547), (145, 14586), (147, 14592), (236, 14823), (249, 14862), (252, 14874), (293, 15024), (305, 15057), (316, 15096), (323, 15111), (335, 15156), (345, 15192), (349, 15204), (379,

15282), (407, 15351), (425, 15426), (429, 15441), (436, 15471), (442, 15504), (451, 15534),

Gene: Xenia2_29 Start: 24947, Stop: 26074, Start Num: 47
Candidate Starts for Xenia2_29:
(Start: 47 @24947 has 48 MA's), (115, 25139), (128, 25172), (142, 25208), (146, 25217), (165, 25259), (202, 25358), (235, 25385), (236, 25388), (299, 25538), (311, 25583), (312, 25586), (318, 25607), (341, 25685), (368, 25760), (419, 25910), (427, 25940), (433, 25964), (445, 26015),

Gene: Yang_19 Start: 15026, Stop: 16147, Start Num: 45
Candidate Starts for Yang_19:
(Start: 45 @15026 has 59 MA's), (100, 15170), (128, 15260), (184, 15386), (376, 15878), (382, 15896), (447, 16112),

Gene: Yelo_29 Start: 23432, Stop: 24619, Start Num: 43
Candidate Starts for Yelo_29:
(28, 23327), (29, 23333), (Start: 43 @23432 has 13 MA's), (50, 23459), (Start: 52 @23462 has 1 MA's), (75, 23507), (Start: 79 @23519 has 1 MA's), (82, 23528), (128, 23693), (172, 23804), (183, 23822), (208, 23900), (225, 23909), (235, 23924), (318, 24146), (323, 24158), (368, 24299), (370, 24302), (408, 24407), (419, 24452), (427, 24482), (433, 24506), (436, 24518), (437, 24521), (448, 24569), (454, 24608),

Gene: YesChef_19 Start: 14970, Stop: 16091, Start Num: 45
Candidate Starts for YesChef_19:
(Start: 45 @14970 has 59 MA's), (71, 15030), (92, 15093), (100, 15114), (183, 15327), (197, 15378), (202, 15384), (306, 15606), (376, 15822), (382, 15840), (408, 15900),

Gene: Yikes_30 Start: 26236, Stop: 27360, Start Num: 47
Candidate Starts for Yikes_30:
(Start: 47 @26236 has 48 MA's), (48, 26242), (Start: 52 @26248 has 1 MA's), (73, 26293), (82, 26317), (108, 26404), (128, 26461), (146, 26506), (165, 26548), (235, 26674), (275, 26749), (281, 26779), (307, 26860), (318, 26896), (368, 27049), (395, 27130), (407, 27151), (427, 27229), (447, 27310),

Gene: Yonex_27 Start: 20581, Stop: 21684, Start Num: 49
Candidate Starts for Yonex_27:
(Start: 49 @20581 has 26 MA's), (78, 20650), (86, 20677), (93, 20701), (96, 20710), (114, 20758), (151, 20860), (154, 20866), (192, 20962), (339, 21307), (393, 21466), (401, 21481), (406, 21493), (432, 21595), (447, 21652), (449, 21658), (451, 21667),

Gene: Zaheer_27 Start: 20670, Stop: 21773, Start Num: 49
Candidate Starts for Zaheer_27:
(Start: 49 @20670 has 26 MA's), (78, 20739), (86, 20766), (93, 20790), (96, 20799), (114, 20847), (151, 20949), (154, 20955), (192, 21051), (339, 21396), (393, 21555), (401, 21570), (406, 21582), (432, 21684), (447, 21741), (449, 21747), (451, 21756),

Gene: Zany_28 Start: 25757, Stop: 26881, Start Num: 47
Candidate Starts for Zany_28:
(Start: 47 @25757 has 48 MA's), (48, 25763), (Start: 52 @25769 has 1 MA's), (73, 25814), (82, 25838), (108, 25925), (128, 25982), (146, 26027), (165, 26069), (172, 26093), (196, 26156), (235, 26195), (275, 26270), (281, 26300), (307, 26381), (318, 26417), (368, 26570), (427, 26750), (447, 26831),

Gene: Zenon_30 Start: 23451, Stop: 24638, Start Num: 43
Candidate Starts for Zenon_30:

(28, 23346), (29, 23352), (Start: 43 @23451 has 13 MA's), (50, 23478), (Start: 52 @23481 has 1 MA's), (75, 23526), (Start: 79 @23538 has 1 MA's), (82, 23547), (128, 23712), (172, 23823), (183, 23841), (208, 23919), (225, 23928), (235, 23943), (318, 24165), (323, 24177), (368, 24318), (370, 24321), (408, 24426), (419, 24471), (427, 24501), (433, 24525), (436, 24537), (437, 24540), (448, 24588), (454, 24627),

Gene: Zorro_20 Start: 15990, Stop: 17147, Start Num: 67
Candidate Starts for Zorro_20:
(Start: 67 @15990 has 83 MA's), (Start: 69 @15993 has 15 MA's), (Start: 84 @16014 has 3 MA's), (105, 16089), (124, 16149), (147, 16194), (155, 16215), (185, 16287), (195, 16317), (210, 16359), (236, 16425), (250, 16470), (292, 16623), (302, 16653), (316, 16701), (323, 16716), (333, 16752), (345, 16797), (394, 16932), (407, 16956), (428, 17043), (442, 17109), (444, 17115), (452, 17142),

Gene: pZL12_48c Start: 37533, Stop: 36430, Start Num: 44
Candidate Starts for pZL12_48c:
(44, 37533), (91, 37407), (128, 37308), (134, 37293), (173, 37194), (305, 36936), (325, 36876), (333, 36846), (422, 36582),

Gene: phiBT1_46 Start: 12374, Stop: 13390, Start Num: 63
Candidate Starts for phiBT1_46:
(Start: 63 @12374 has 6 MA's), (Start: 68 @12389 has 1 MA's), (Start: 84 @12431 has 3 MA's), (93, 12464), (103, 12494), (118, 12548), (132, 12584), (168, 12668), (231, 12731), (275, 12821), (303, 12914), (307, 12932), (310, 12941), (323, 12980), (330, 13001), (337, 13022), (363, 13103), (373, 13121), (376, 13139), (400, 13202), (420, 13268), (427, 13298), (429, 13304), (432, 13319),