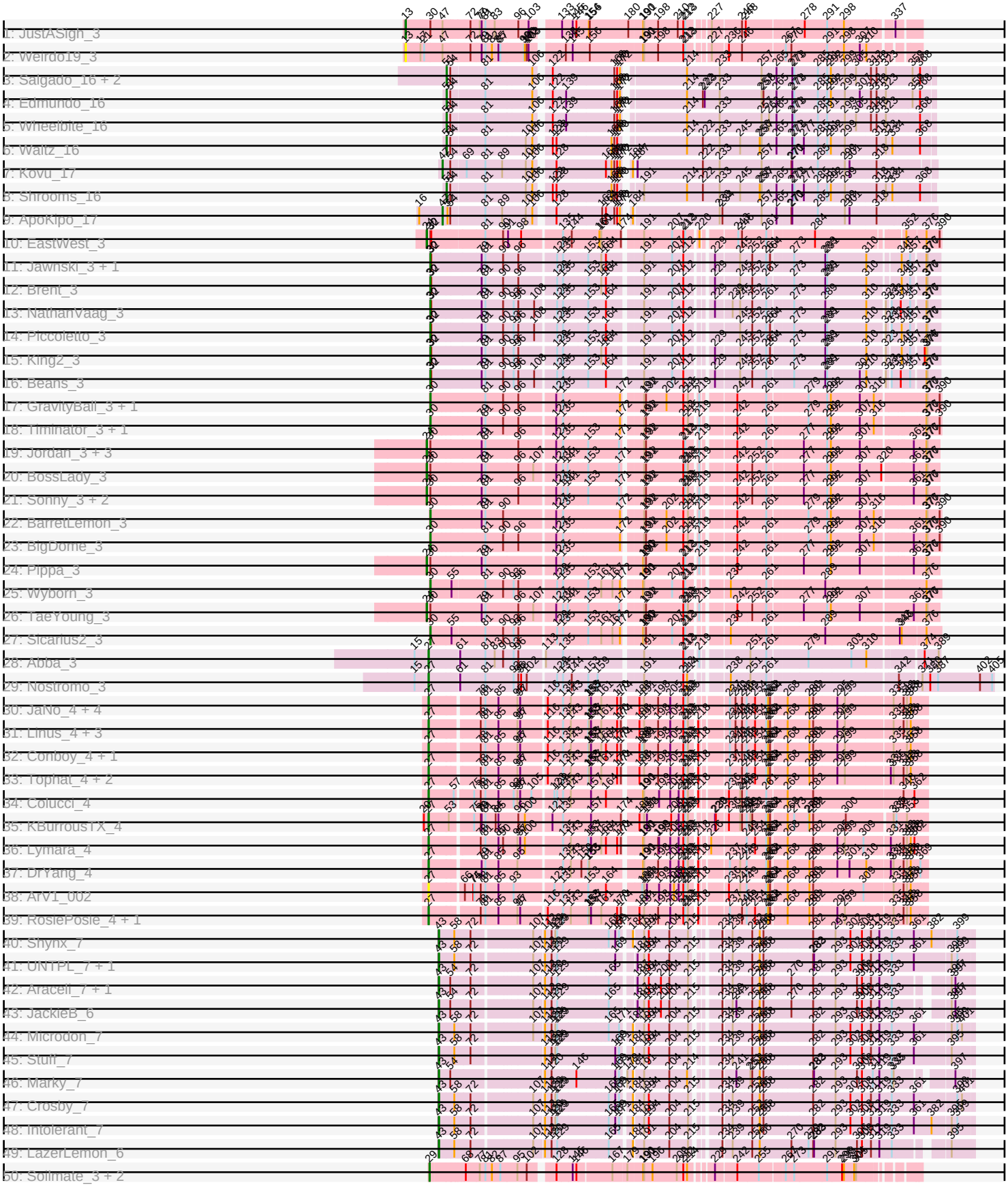
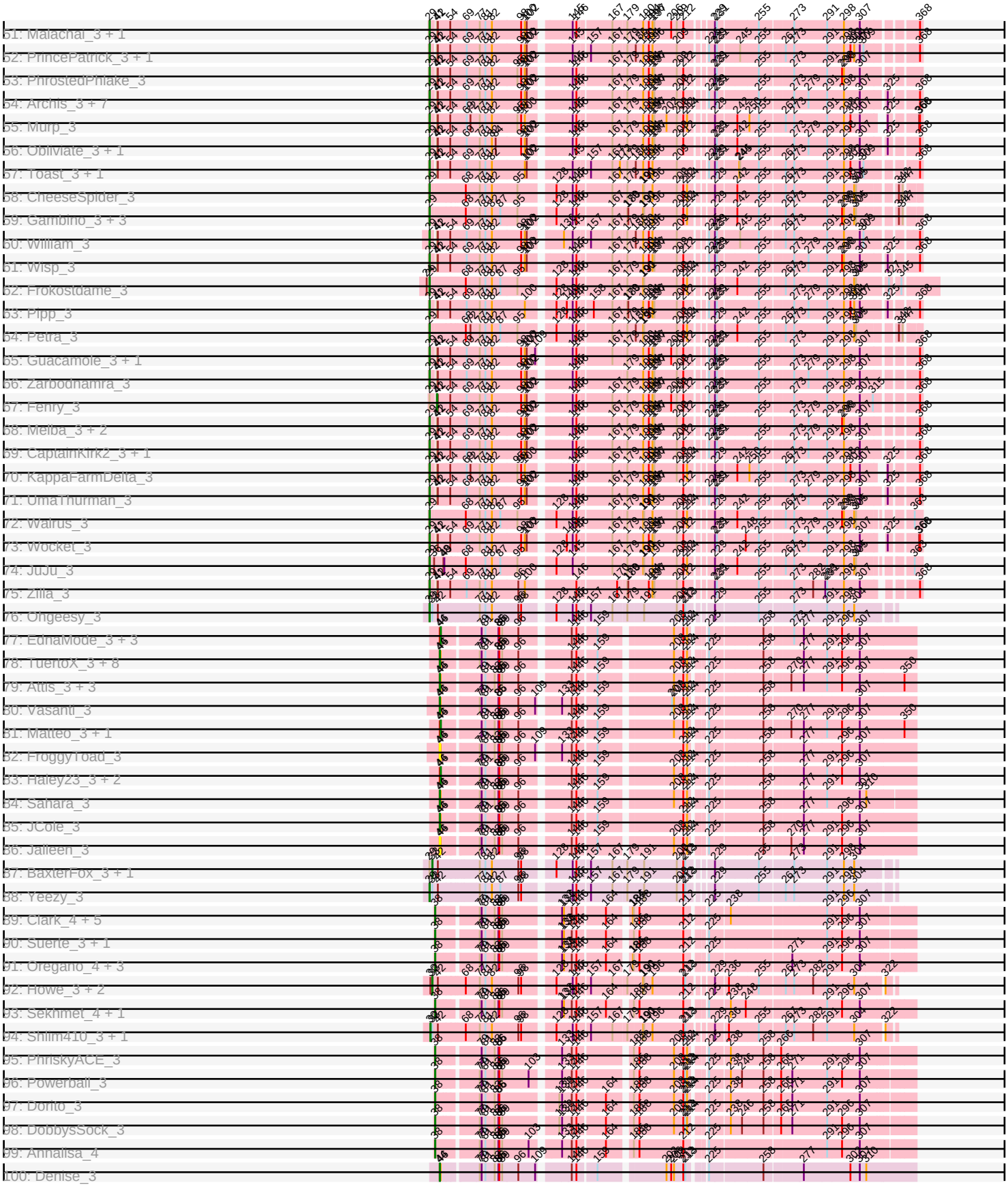
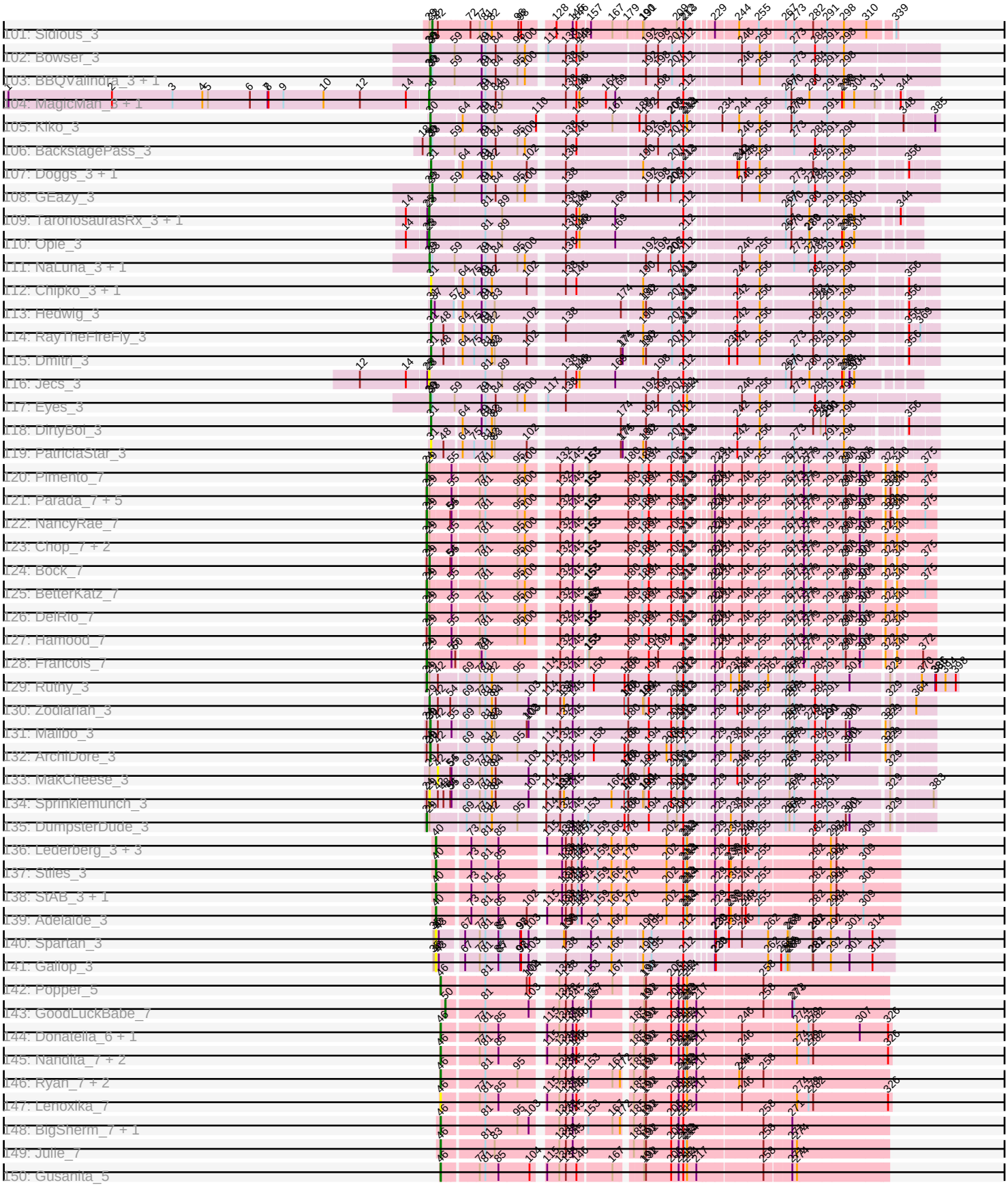
# Pham 347124


1: JustASigh_3
2: Weirdo19_3
3: Salgado_16 + 2
4: Edmundo_16
5: Wheelbite_16
6: Waltz_16
7: Kovu_17
8: Shrooms_16
9: ApoKipo_17
10: EastWest_3
11: Jawnski_3 + 1
12: Brent_3
13: NathanVaag_3
14: Piccoletto_3
15: King2_3
16: Beans_3
17: GravityBall_3 + 1
18: Timinator_3 + 1
19: Jordan_3 + 3
20: BossLady_3
21: Sonny_3 + 2
22: BarretLemon_3
23: BigDome_3
24: Pippa_3
25: Wyborn_3
26: TaeYoung_3
27: Sicarius2_3
28: Abba_3
29: Nostromo_3
30: JaNo_4 + 4
31: Linus_4 + 3
32: Conboy_4 + 1
33: Tophat_4 + 2
34: Colucci_4
35: KBurrousTX_4
36: Lymara_4
37: DrYang_4
38: ARV1_002
39: RosiePosie_4 + 1
40: Shynx_7
41: ONYPL_7 + 1
42: Aracell_7 + 1
43: JackieB_6
44: Microdon_7
45: Stuff_7
46: Marky_7
47: Crosby_7
48: Intolerant_7
49: LazerLemon_6
50: Solimate_3 + 2

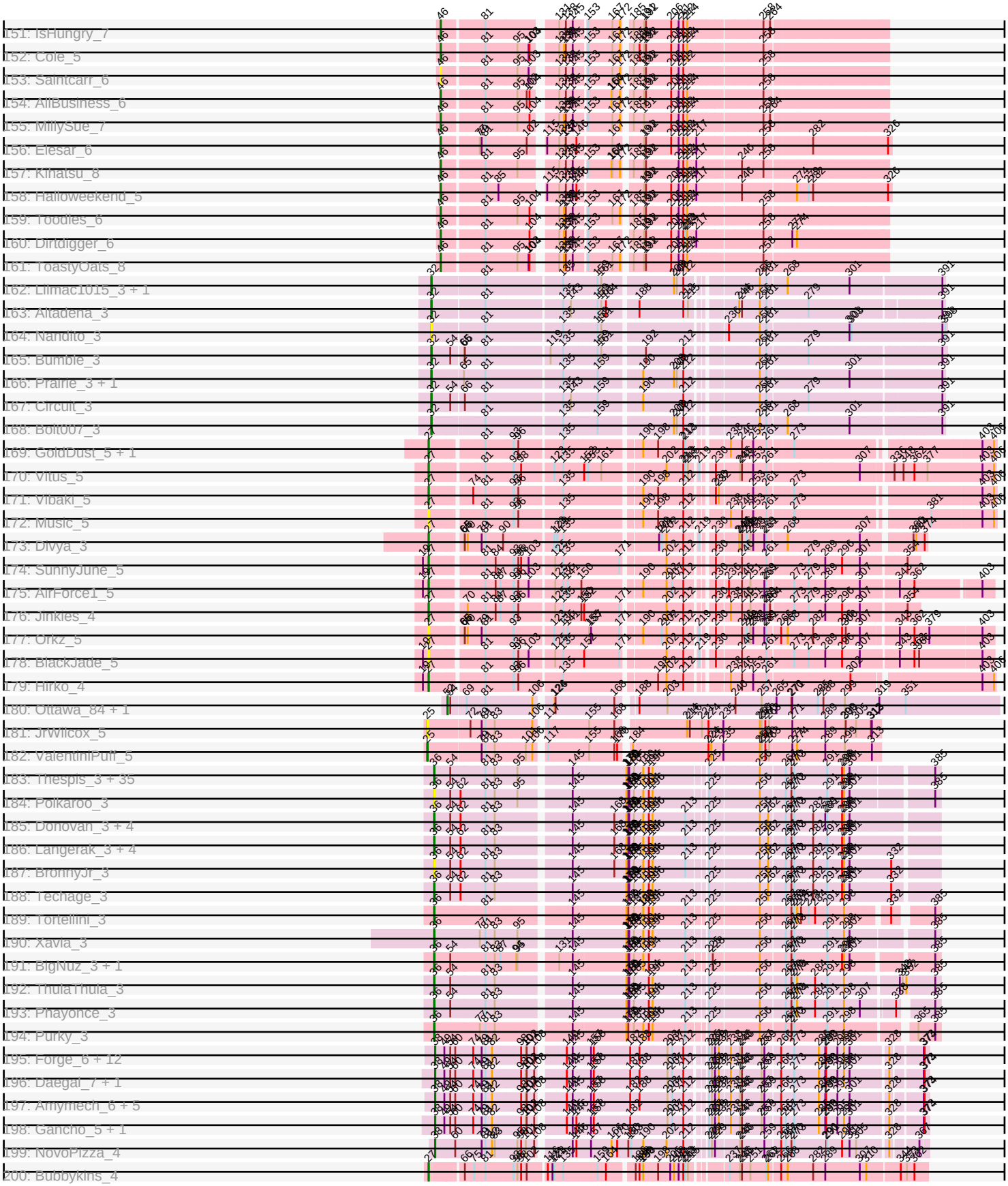
# Pham 347124


51: Malachai_3 + 1
52: PrincePatrick_3 + 1
53: PhrostedPhlake_3
54: Archis_3 + 7
55: Murp_3
56: Obliviate_3 + 1
57: Toast_3 + 1
58: CheeseSpider_3
59: Gambino_3 + 3
60: William_3
61: Wisp_3
62: Frokostdame_3
63: Pipp_3
64: Petra_3
65: Guacamole_3 + 1
66: Zarboonamra_3
67: Fenry_3
68: Melba_3 + 2
69: CaptainKirk2_3 + 1
70: KappaFarmDelta_3
71: UmaThurman_3
72: Walrus_3
73: Wocket_3
74: JuJu_3
75: Zilla_3
76: Ongeesy_3
77: EdnaMode_3 + 3
78: TuentoX_3 + 8
79: Attis_3 + 3
80: Vasanti_3
81: Matteo_3 + 1
82: FroggyToad_3
83: Haley23_3 + 2
84: Sahara_3
85: JCole_3
86: Jalleen_3
87: BaxterFox_3 + 1
88: Yeezy_3
89: Clark_4 + 5
90: Suerte_3 + 1
91: Oregano_4 + 3
92: Howe_3 + 2
93: Sekhmet_4 + 1
94: Shlim410_3 + 1
95: PhriskyACE_3
96: Powerball_3
97: Dorito_3
98: DobbysSock_3
99: Annalisa_4
100: Denise_3

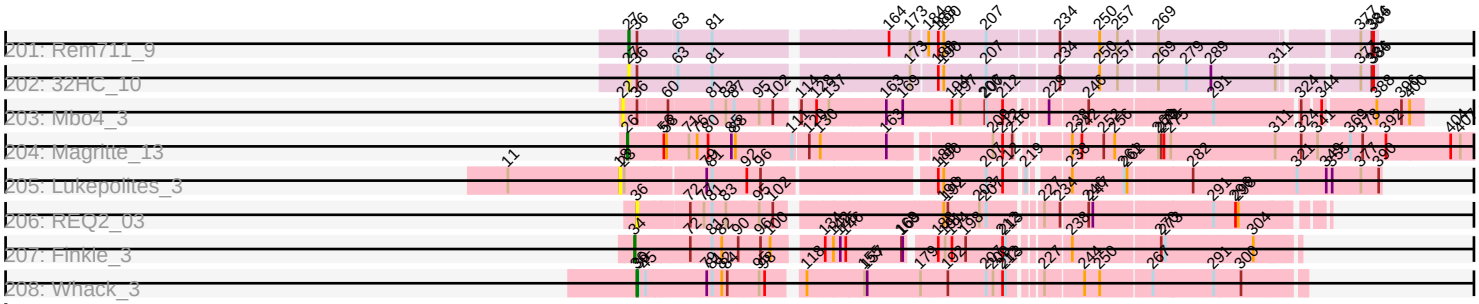
# Pham 347124


101: Sidious_3
102: Bowser_3
103: BBQValindra_3 + 1
104: MagicMan_3 + 1
105: Kiko_3
106: BackstagePass_3
107: Doggs_3 + 1
108: GEazy_3
109: TarohosaurasRX_3 + 1
110: Opie_3
111: NaLuna_3 + 1
112: Chipko_3 + 1
113: Hedwig_3
114: RayTheFireFly_3
115: Dmitri_3
116: Jecs_3
117: Eyes_3
118: DirtyBoi_3
119: PatriciaStar_3
120: Pimento_7
121: Parada_7 + 5
122: NancyRae_7
123: Chop_7 + 2
124: Bock_7
125: BetterKatz_7
126: DelRio_7
127: Hamood_7
128: Francois_7
129: Ruthy_3
130: Zodiarian_3
131: Malibo_3
132: ArchiDore_3
133: MakCheese_3
134: Sprinklemunch_3
135: DumpsterDude_3
136: Lederberg_3 + 3
137: Stiles_3
138: StAB_3 + 1
139: Adelaide_3
140: Spartan_3
141: Gallop_3
142: Popper_5
143: GoodLuckBabe_7
144: Donatella_6 + 1
145: Nandita_7 + 2
146: Ryan_7 + 2
147: Lenoxika_7
148: BigSherm_7 + 1
149: Julie_7
150: Gusanita_5

# Pham 347124


151: IsHungry_7
152: Cole_5
153: Saintcarl_6
154: AllBusiness_6
155: MillySue_7
156: Elesar_6
157: Kinatsu_8
158: Halloweekend_5
159: Toodles_6
160: Dirtdigger_6
161: ToastyOats_8
162: Llmac1015_3 + 1
163: Altadena_3
164: Nandito_3
165: Bumble_3
166: Prairie_3 + 1
167: Circuit_3
168: Bolt007_3
169: GoldDust_5 + 1
170: Vitus_5
171: Vibaki_5
172: Music_5
173: Divya_3
174: SunnyJune_5
175: AirForce1_5
176: Jinkies_4
177: Orkz_5
178: BlackJade_5
179: Hirko_4
180: Ottawa_84 + 1
181: JrWilcox_5
182: ValentiniPuff_5
183: Thespis_3 + 35
184: Polkaroo_3
185: Donovan_3 + 4
186: Langerak_3 + 4
187: BronnyJr_3
188: Techage_3
189: Tortellini_3
190: Xavia_3
191: BigNuz_3 + 1
192: ThulaThula_3
193: Phayonce_3
194: Purky_3
195: Forge_6 + 12
196: Daegal_7 + 1
197: Amymech_6 + 5
198: Gancho_5 + 1
199: NovoPizza_4
200: Bubbykins_4

# Pham 347124


201: Rem711_9
202: 32HC_10
203: Mbo4_3
204: Magritte_13
205: Lukepolites_3
206: REQ2_03
207: Finkie_3
208: Whack_3

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 347124 Report

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

Pham number 347124 has 372 members, 37 are drafts.

Phages represented in each track:
- Track 1 : JustASigh_3
- Track 2 : Weirdo19_3
- Track 3 : Salgado_16, Laroye_16, LiSara_16
- Track 4 : Edmundo_16
- Track 5 : Wheelbite_16
- Track 6 : Waltz_16
- Track 7 : Kovu_17
- Track 8 : Shrooms_16
- Track 9 : ApoKipo_17
- Track 10 : EastWest_3
- Track 11 : Jawnski_3, Franzy_3
- Track 12 : Brent_3
- Track 13 : NathanVaag_3
- Track 14 : Piccoletto_3
- Track 15 : King2_3
- Track 16 : Beans_3
- Track 17 : GravityBall_3, StevieBAY_3
- Track 18 : Timinator_3, LeeroyJ_3
- Track 19 : Jordan_3, Shade_3, Zartrosa_3, JKerns_3
- Track 20 : BossLady_3
- Track 21 : Sonny_3, Martha_3, Grekaycon_3
- Track 22 : BarretLemon_3
- Track 23 : BigDome_3
- Track 24 : Pippa_3
- Track 25 : Wyborn_3
- Track 26 : TaeYoung_3
- Track 27 : Sicarius2_3
- Track 28 : Abba_3
- Track 29 : Nostromo_3
- Track 30 : JaNo_4, Mordred_4, HumptyDumpty_4, Kabreeze_4, Scavito_4
- Track 31 : Linus_4, JayCookie_4, MoyaNatalis_4, PrincessTrina_4
- Track 32 : Conboy_4, EdgarPoe_4
- Track 33 : Tophat_4, Chipper1996_40, Chubster_4
- Track 34 : Colucci_4
- Track 35 : KBurrousTX_4
- Track 36 : Lymara_4
- Track 37 : DrYang_4

• Track 38 : ArV1_002
• Track 39 : RosiePosie_4, Chocolat_4
• Track 40 : Shynx_7
• Track 41 : UNTPL_7, Bogota_7
• Track 42 : Araceli_7, Henoccus_7
• Track 43 : JackieB_6
• Track 44 : Microdon_7
• Track 45 : Stuff_7
• Track 46 : Marky_7
• Track 47 : Crosby_7
• Track 48 : Intolerant_7
• Track 49 : LazerLemon_6
• Track 50 : Soilmate_3, CarolAnn_3, Blino_3
• Track 51 : Malachai_3, Begonia_3
• Track 52 : PrincePatrick_3, Fairfaxidum_3
• Track 53 : PhrostedPhlake_3
• Track 54 : Archis_3, Utz_3, BlingBling_3, Hitter_3, Jalammah_3, Lysidious_3, Samba_3, Mellie_3
• Track 55 : Murp_3
• Track 56 : Obliviate_3, ZiggyZoo_3
• Track 57 : Toast_3, PCoral7_3
• Track 58 : CheeseSpider_3
• Track 59 : Gambino_3, Azula_3, Blueberry_3, MissRona_3
• Track 60 : William_3
• Track 61 : Wisp_3
• Track 62 : Frokostdame_3
• Track 63 : Pipp_3
• Track 64 : Petra_3
• Track 65 : Guacamole_3, JasperJr_3
• Track 66 : Zarbodnamra_3
• Track 67 : Fenry_3
• Track 68 : Melba_3, MintFen_3, Barco_3
• Track 69 : CaptainKirk2_3, Delian_3
• Track 70 : KappaFarmDelta_3
• Track 71 : UmaThurman_3
• Track 72 : Walrus_3
• Track 73 : Wocket_3
• Track 74 : JuJu_3
• Track 75 : Zilla_3
• Track 76 : Ohgeesy_3
• Track 77 : EdnaMode_3, Pickett_3, Nettuno_3, Lamberg_3
• Track 78 : TuertoX_3, GemG_3, Yinzer_3, Ebert_3, Cynthia_3, Mocha12_3, Gizermo_3, Sproutie_3, Savage_3
• Track 79 : Attis_3, Yeet412_3, Bjanes7_3, SoilAssassin_3
• Track 80 : Vasanti_3
• Track 81 : Matteo_3, LordFarquaad_3
• Track 82 : FroggyToad_3
• Track 83 : Haley23_3, Clap_3, Whiteclaw_3
• Track 84 : Sahara_3
• Track 85 : JCole_3
• Track 86 : Jalleen_3
• Track 87 : BaxterFox_3, PantheRoc_3
• Track 88 : Yeezy_3

• Track 89 : Clark_4, MichaelScott_4, Easley_4, Tuti_4, Beenie_4, Rizz_5
• Track 90 : Suerte_3, Thimann_4
• Track 91 : Oregano_4, Dolores_4, Samman98_4, WinkNick_4
• Track 92 : Howe_3, Adora_3, Twinkle_3
• Track 93 : Sekhmet_4, Invectra_4
• Track 94 : Shlim410_3, Hortense_3
• Track 95 : PhriskyACE_3
• Track 96 : Powerball_3
• Track 97 : Dorito_3
• Track 98 : DobbysSock_3
• Track 99 : Annalisa_4
• Track 100 : Denise_3
• Track 101 : Sidious_3
• Track 102 : Bowser_3
• Track 103 : BBQValindra_3, Bunker_3
• Track 104 : MagicMan_3, Schnabeltier_3
• Track 105 : Kiko_3
• Track 106 : BackstagePass_3
• Track 107 : Doggs_3, Coriander_3
• Track 108 : GEazy_3
• Track 109 : TaronosaurasRx_3, ZAYM_3
• Track 110 : Opie_3
• Track 111 : NaLuna_3, HannahD_3
• Track 112 : Chipko_3, Moonflower_3
• Track 113 : Hedwig_3
• Track 114 : RayTheFireFly_3
• Track 115 : Dmitri_3
• Track 116 : Jecs_3
• Track 117 : Eyes_3
• Track 118 : DirtyBoi_3
• Track 119 : PatriciaStar_3
• Track 120 : Pimento_7
• Track 121 : Parada_7, Nadeem_7, WheatThin_7, Mulch_7, Brylie_7, SussRoloMann_7
• Track 122 : NancyRae_7
• Track 123 : Chop_7, Ayotoya_7, GrandSlam_7
• Track 124 : Bock_7
• Track 125 : BetterKatz_7
• Track 126 : DelRio_7
• Track 127 : Hamood_7
• Track 128 : Francois_7
• Track 129 : Ruthy_3
• Track 130 : Zodiariah_3
• Track 131 : Malibo_3
• Track 132 : ArchiDore_3
• Track 133 : MakCheese_3
• Track 134 : Sprinklemunch_3
• Track 135 : DumpsterDude_3
• Track 136 : Lederberg_3, Troy_3, SamW_3, Dina_3
• Track 137 : Stiles_3
• Track 138 : StAB_3, Bran_3
• Track 139 : Adelaide_3
• Track 140 : Spartan_3

• Track 141 : Gallop_3
• Track 142 : Popper_5
• Track 143 : GoodLuckBabe_7
• Track 144 : Donatella_6, Ichiang_5
• Track 145 : Nandita_7, Schism_7, Guinevere_7
• Track 146 : Ryan_7, Zaheer_7, Yonex_7
• Track 147 : Lenoxika_7
• Track 148 : BigSherm_7, QuinnAvery_7
• Track 149 : Julie_7
• Track 150 : Gusanita_5
• Track 151 : IsHungry_7
• Track 152 : Cole_5
• Track 153 : Saintcarr_6
• Track 154 : AllBusiness_6
• Track 155 : MillySue_7
• Track 156 : Elesar_6
• Track 157 : Kihatsu_8
• Track 158 : Halloweekend_5
• Track 159 : Toodles_6
• Track 160 : Dirtdigger_6
• Track 161 : ToastyOats_8
• Track 162 : Lilmac1015_3, CalWood4100_3
• Track 163 : Altadena_3
• Track 164 : Nandito_3
• Track 165 : Bumble_3
• Track 166 : Prairie_3, Klevey_3
• Track 167 : Circuit_3
• Track 168 : Bolt007_3
• Track 169 : GoldDust_5, Gooberta_5
• Track 170 : Vitus_5
• Track 171 : Vibaki_5
• Track 172 : Music_5
• Track 173 : Divya_3
• Track 174 : SunnyJune_5
• Track 175 : AirForce1_5
• Track 176 : Jinkies_4
• Track 177 : Orkz_5
• Track 178 : BlackJade_5
• Track 179 : Hirko_4
• Track 180 : Ottawa_84, Kharcho_84
• Track 181 : JrWilcox_5
• Track 182 : ValentiniPuff_5
• Track 183 : Thespis_3, Phalm_3, Pygmy_3, KilKor_3, HUHilltop_3, StressBall_3, Bogie_3, Gavriela_3, Malithi_3, Vidya_3, Glaske_3, Chubbello_3, Bhagsy_3, PeanutPie_3, Bartholomew_3, Fishburne_3, StevieRay_3, Shipwreck_3, FirstPlacePfu_3, Dynamo_3, Brusacoram_3, Bunnies_3, Venti_3, Necropolis_3, Etoile_3, Atcoo_3, Camster_3, Megiddo_3, Jung_3, Phineas_3, Willsammy_3, GreaseLightnin_3, CactusJack_3, Zilizebeth_3, Kari_3, Ksquared_3
• Track 184 : Polkaroo_3
• Track 185 : Donovan_3, Sonah_3, GaloreK_3, Juniormint_3, Jebeks_3
• Track 186 : Langerak_3, Mangethe_3, Majeke_3, Arib1_3, Phegasus_3
• Track 187 : BronnyJr_3
• Track 188 : Techage_3

• Track 189 : Tortellini_3
• Track 190 : Xavia_3
• Track 191 : BigNuz_3, Nazo_3
• Track 192 : ThulaThula_3
• Track 193 : Phayonce_3
• Track 194 : Purky_3
• Track 195 : Forge_6, Evanesce_6, Wishmaker_6, OBUpride_6, Luna22_6, Dewey_6, BloominB_6, Giles_6, Luke_6, Hadrien_6, HH92_6, DeepSoil15_6, Kinbote_6
• Track 196 : Daegal_7, Amochick_6
• Track 197 : Amymech_6, Webster2_6, LilHazelnut_6, Ein37_6, Ubuntu_6, Hail_6
• Track 198 : Gancho_5, Gravaillia_6
• Track 199 : NovoPizza_4
• Track 200 : Bubbykins_4
• Track 201 : Rem711_9
• Track 202 : 32HC_10
• Track 203 : Mbo4_3
• Track 204 : Magritte_13
• Track 205 : Lukepolites_3
• Track 206 : REQ2_03
• Track 207 : Finkle_3
• Track 208 : Whack_3

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

The start number called the most often in the published annotations is 36, it was called in 52 of the 335 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Arib1_3, Atcoo_3, Bartholomew_3, Bhagsy_3, BigNuz_3, Bogie_3, BronnyJr_3, Brusacoram_3, Bunnies_3, CactusJack_3, Camster_3, Chubbello_3, Donovan_3, Dynamo_3, Etoile_3, FirstPlacePfu_3, Fishburne_3, GaloreK_3, Gavriela_3, Glaske_3, GreaseLightnin_3, HUHilltop_3, Jebeks_3, Jung_3, Juniormint_3, Kari_3, KilKor_3, Ksquared_3, Langerak_3, Majeke_3, Malithi_3, Mangethe_3, Megiddo_3, Nazo_3, Necropolis_3, PeanutPie_3, Phalm_3, Phayonce_3, Phegasus_3, Phineas_3, Polkaroo_3, Purky_3, Pygmy_3, REQ2_03, Shipwreck_3, Sonah_3, StevieRay_3, StressBall_3, Techage_3, Thespis_3, ThulaThula_3, Tortellini_3, Venti_3, Vidya_3, Whack_3, Willsammy_3, Xavia_3, Zilizebeth_3,

Genes that have the "Most Annotated" start but do not call it:
• 32HC_10, JuJu_3, Mbo4_3, Rem711_9,

Genes that do not have the "Most Annotated" start:
• Abba_3, Adelaide_3, Adora_3, AirForce1_5, AllBusiness_6, Altadena_3, Amochick_6, Amymech_6, Annalisa_4, ApoKipo_17, ArV1_002, Araceli_7, ArchiDore_3, Archis_3, Attis_3, Ayotoya_7, Azula_3, BBQValindra_3, BackstagePass_3, Barco_3, BarretLemon_3, BaxterFox_3, Beans_3, Beenie_4, Begonia_3, BetterKatz_7, BigDome_3, BigSherm_7, Bjanes7_3, BlackJade_5, BlingBling_3, Blino_3, BloominB_6, Blueberry_3, Bock_7, Bogota_7, Bolt007_3, BossLady_3, Bowser_3, Bran_3, Brent_3, Brylie_7, Bubbykins_4, Bumble_3,

Bunker_3, CalWood4100_3, CaptainKirk2_3, CarolAnn_3, CheeseSpider_3, Chipko_3, Chipper1996_40, Chocolat_4, Chop_7, Chubster_4, Circuit_3, Clap_3, Clark_4, Cole_5, Colucci_4, Conboy_4, Coriander_3, Crosby_7, Cynthia_3, Daegal_7, DeepSoil15_6, DelRio_7, Delian_3, Denise_3, Dewey_6, Dina_3, Dirtdigger_6, DirtyBoi_3, Divya_3, Dmitri_3, DobbysSock_3, Doggs_3, Dolores_4, Donatella_6, Dorito_3, DrYang_4, DumpsterDude_3, Easley_4, EastWest_3, Ebert_3, EdgarPoe_4, Edmundo_16, EdnaMode_3, Ein37_6, Elesar_6, Evanesce_6, Eyes_3, Fairfaxidum_3, Fenry_3, Finkle_3, Forge_6, Francois_7, Franzy_3, FroggyToad_3, Frokostdame_3, GEazy_3, Gallop_3, Gambino_3, Gancho_5, GemG_3, Giles_6, Gizermo_3, GoldDust_5, Gooberta_5, GoodLuckBabe_7, GrandSlam_7, Gravaillia_6, GravityBall_3, Grekaycon_3, Guacamole_3, Guinevere_7, Gusanita_5, HH92_6, Hadrien_6, Hail_6, Haley23_3, Halloweekend_5, Hamood_7, HannahD_3, Hedwig_3, Henoccus_7, Hirko_4, Hitter_3, Hortense_3, Howe_3, HumptyDumpty_4, Ichiang_5, Intolerant_7, Invectra_4, IsHungry_7, JCole_3, JKerns_3, JaNo_4, JackieB_6, Jalammah_3, Jalleen_3, JasperJr_3, Jawnski_3, JayCookie_4, Jecs_3, Jinkies_4, Jordan_3, JrWilcox_5, Julie_7, JustASigh_3, KBurrousTX_4, Kabreeze_4, KappaFarmDelta_3, Kharcho_84, Kihatsu_8, Kiko_3, Kinbote_6, King2_3, Klevey_3, Kovu_17, Lamberg_3, Laroye_16, LazerLemon_6, Lederberg_3, LeeroyJ_3, Lenoxika_7, LiSara_16, LilHazelnut_6, Lilmac1015_3, Linus_4, LordFarquaad_3, Luke_6, Lukepolites_3, Luna22_6, Lymara_4, Lysidious_3, MagicMan_3, Magritte_13, MakCheese_3, Malachai_3, Malibo_3, Marky_7, Martha_3, Matteo_3, Melba_3, Mellie_3, MichaelScott_4, Microdon_7, MillySue_7, MintFen_3, MissRona_3, Mocha12_3, Moonflower_3, Mordred_4, MoyaNatalis_4, Mulch_7, Murp_3, Music_5, NaLuna_3, Nadeem_7, NancyRae_7, Nandita_7, Nandito_3, NathanVaag_3, Nettuno_3, Nostromo_3, NovoPizza_4, OBUpride_6, Obliviate_3, Ohgeesy_3, Opie_3, Oregano_4, Orkz_5, Ottawa_84, PCoral7_3, PantheRoc_3, Parada_7, PatriciaStar_3, Petra_3, PhriskyACE_3, PhrostedPhlake_3, Piccoletto_3, Pickett_3, Pimento_7, Pipp_3, Pippa_3, Popper_5, Powerball_3, Prairie_3, PrincePatrick_3, PrincessTrina_4, QuinnAvery_7, RayTheFireFly_3, Rizz_5, RosiePosie_4, Ruthy_3, Ryan_7, Sahara_3, Saintcarr_6, Salgado_16, SamW_3, Samba_3, Samman98_4, Savage_3, Scavito_4, Schism_7, Schnabeltier_3, Sekhmet_4, Shade_3, Shlim410_3, Shrooms_16, Shynx_7, Sicarius2_3, Sidious_3, SoilAssassin_3, Soilmate_3, Sonny_3, Spartan_3, Sprinklemunch_3, Sproutie_3, StAB_3, StevieBAY_3, Stiles_3, Stuff_7, Suerte_3, SunnyJune_5, SussRoloMann_7, TaeYoung_3, TaronosaurasRx_3, Thimann_4, Timinator_3, Toast_3, ToastyOats_8, Toodles_6, Tophat_4, Troy_3, TuertoX_3, Tuti_4, Twinkle_3, UNTPL_7, Ubuntu_6, UmaThurman_3, Utz_3, ValentiniPuff_5, Vasanti_3, Vibaki_5, Vitus_5, Walrus_3, Waltz_16, Webster2_6, Weirdo19_3, WheatThin_7, Wheelbite_16, Whiteclaw_3, William_3, WinkNick_4, Wishmaker_6, Wisp_3, Wocket_3, Wyborn_3, Yeet412_3, Yeezy_3, Yinzer_3, Yonex_7, ZAYM_3, Zaheer_7, Zarbodnamra_3, Zartrosa_3, ZiggyZoo_3, Zilla_3, Zodiariah_3,

**Summary by start number:**

Start 13:
• Found in 2 of 372 ( 0.5% ) of genes in pham
• Manual Annotations of this start: 1 of 335
• Called 100.0% of time when present
• Phage (with cluster) where this start called: JustASigh_3 (AH), Weirdo19_3 (AH),

Start 18:
• Found in 2 of 372 ( 0.5% ) of genes in pham

• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Lukepolites_3 (singleton),

Start 22:
• Found in 1 of 372 ( 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: Mbo4_3 (singleton),

Start 24:
• Found in 33 of 372 ( 8.9% ) of genes in pham
• Manual Annotations of this start: 26 of 335
• Called 81.8% of time when present
• Phage (with cluster) where this start called: Ayotoya_7 (DI), BetterKatz_7 (DI), BossLady_3 (AO2), Brylie_7 (DI), Chop_7 (DI), DelRio_7 (DI), DumpsterDude_3 (DW), EastWest_3 (AO), Francois_7 (DI), GrandSlam_7 (DI), Grekaycon_3 (AO2), JKerns_3 (AO2), Jordan_3 (AO2), Martha_3 (AO2), Mulch_7 (DI), Nadeem_7 (DI), NancyRae_7 (DI), Parada_7 (DI), Pimento_7 (DI), Pippa_3 (AO2), Ruthy_3 (DW), Shade_3 (AO2), Sonny_3 (AO2), SussRoloMann_7 (DI), TaeYoung_3 (AO2), WheatThin_7 (DI), Zartrosa_3 (AO2),

Start 25:
• Found in 6 of 372 ( 1.6% ) of genes in pham
• Manual Annotations of this start: 1 of 335
• Called 33.3% of time when present
• Phage (with cluster) where this start called: JrWilcox_5 (GL), ValentiniPuff_5 (GL),

Start 26:
• Found in 1 of 372 ( 0.3% ) of genes in pham
• Manual Annotations of this start: 1 of 335
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Magritte_13 (singleton),

Start 27:
• Found in 38 of 372 ( 10.2% ) of genes in pham
• Manual Annotations of this start: 32 of 335
• Called 100.0% of time when present
• Phage (with cluster) where this start called: 32HC_10 (Z), Abba_3 (AO3), AirForce1_5 (FL), ArV1_002 (AR), BlackJade_5 (FL), Bubbykins_4 (UNK), Chipper1996_40 (AR), Chocolat_4 (AR), Chubster_4 (AR), Colucci_4 (AR), Conboy_4 (AR), Divya_3 (FL), DrYang_4 (AR), EdgarPoe_4 (AR), GoldDust_5 (FL), Gooberta_5 (FL), Hirko_4 (FL), HumptyDumpty_4 (AR), JaNo_4 (AR), JayCookie_4 (AR), Jinkies_4 (FL), KBurrousTX_4 (AR), Kabreeze_4 (AR), Linus_4 (AR), Lymara_4 (AR), Mordred_4 (AR), MoyaNatalis_4 (AR), Music_5 (FL), Nostromo_3 (AO3), Orkz_5 (FL), PrincessTrina_4 (AR), Rem711_9 (Z), RosiePosie_4 (AR), Scavito_4 (AR), SunnyJune_5 (FL), Tophat_4 (AR), Vibaki_5 (FL), Vitus_5 (FL),

Start 28:
• Found in 6 of 372 ( 1.6% ) of genes in pham
• Manual Annotations of this start: 4 of 335
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Jecs_3 (DB), MagicMan_3 (DB), Opie_3 (DB), Schnabeltier_3 (DB), TaronosaurasRx_3 (DB), ZAYM_3 (DB),

Start 29:
• Found in 82 of 372 ( 22.0% ) of genes in pham
• Manual Annotations of this start: 50 of 335
• Called 64.6% of time when present
• Phage (with cluster) where this start called: Archis_3 (CV), Azula_3 (CV), Barco_3 (CV), Begonia_3 (CV), BlingBling_3 (CV), Blino_3 (CV), Blueberry_3 (CV), Bock_7 (DI), CaptainKirk2_3 (CV), CarolAnn_3 (CV), CheeseSpider_3 (CV), Delian_3 (CV), Fairfaxidum_3 (CV), Frokostdame_3 (CV), Gambino_3 (CV), Guacamole_3 (CV), Hamood_7 (DI), HannahD_3 (DB), Hitter_3 (CV), Jalammah_3 (CV), JasperJr_3 (CV), JuJu_3 (CV), KappaFarmDelta_3 (CV), Lysidious_3 (CV), Malachai_3 (CV), Melba_3 (CV), Mellie_3 (CV), MintFen_3 (CV), MissRona_3 (CV), Murp_3 (CV), NaLuna_3 (DB), Obliviate_3 (CV), Ohgeesy_3 (CZ), PCoral7_3 (CV), Petra_3 (CV), PhrostedPhlake_3 (CV), Pipp_3 (CV), PrincePatrick_3 (CV), Samba_3 (CV), Soilmate_3 (CV), Sprinklemunch_3 (DW), Toast_3 (CV), UmaThurman_3 (CV), Utz_3 (CV), Walrus_3 (CV), William_3 (CV), Wisp_3 (CV), Wocket_3 (CV), Yeezy_3 (CZ3), Zarbodnamra_3 (CV), ZiggyZoo_3 (CV), Zilla_3 (CV), Zodiariah_3 (DW),

Start 30:
• Found in 40 of 372 ( 10.8% ) of genes in pham
• Manual Annotations of this start: 25 of 335
• Called 62.5% of time when present
• Phage (with cluster) where this start called: ArchiDore_3 (DW), BBQValindra_3 (DB), BackstagePass_3 (DB), BarretLemon_3 (AO2), Beans_3 (AO1), BigDome_3 (AO2), Bowser_3 (DB), Brent_3 (AO1), Bunker_3 (DB), Eyes_3 (DB), Franzy_3 (AO1), GravityBall_3 (AO2), Hortense_3 (CZ4), Jawnski_3 (AO1), Kiko_3 (DB), King2_3 (AO1), LeeroyJ_3 (AO2), Malibo_3 (DW), NathanVaag_3 (AO1), Piccoletto_3 (AO1), Shlim410_3 (CZ4), Sicarius2_3 (AO2), StevieBAY_3 (AO2), Timinator_3 (AO2), Wyborn_3 (AO2),

Start 31:
• Found in 9 of 372 ( 2.4% ) of genes in pham
• Manual Annotations of this start: 6 of 335
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Chipko_3 (DB), Coriander_3 (DB), DirtyBoi_3 (DB), Dmitri_3 (DB), Doggs_3 (DB), Hedwig_3 (DB), Moonflower_3 (DB), PatriciaStar_3 (DB), RayTheFireFly_3 (DB),

Start 32:
• Found in 17 of 372 ( 4.6% ) of genes in pham
• Manual Annotations of this start: 7 of 335
• Called 52.9% of time when present
• Phage (with cluster) where this start called: Altadena_3 (FH), Bolt007_3 (FH), Bumble_3 (FH), CalWood4100_3 (FH), Circuit_3 (FH), Klevey_3 (FH), Lilmac1015_3 (FH), Nandito_3 (FH), Prairie_3 (FH),

Start 33:
• Found in 18 of 372 ( 4.8% ) of genes in pham
• Manual Annotations of this start: 7 of 335
• Called 38.9% of time when present

• Phage (with cluster) where this start called: Adora_3 (CZ4), BaxterFox_3 (CZ3), GEazy_3 (DB), Howe_3 (CZ4), PantheRoc_3 (CZ3), Sidious_3 (CZ7), Twinkle_3 (CZ4),

Start 34:
• Found in 1 of 372 ( 0.3% ) of genes in pham
• Manual Annotations of this start: 1 of 335
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Finkle_3 (singleton),

Start 36:
• Found in 62 of 372 ( 16.7% ) of genes in pham
• Manual Annotations of this start: 52 of 335
• Called 93.5% of time when present
• Phage (with cluster) where this start called: Arib1_3 (P1), Atcoo_3 (P1), Bartholomew_3 (P1), Bhagsy_3 (P1), BigNuz_3 (P4), Bogie_3 (P1), BronnyJr_3 (P1), Brusacoram_3 (P1), Bunnies_3 (P1), CactusJack_3 (P1), Camster_3 (P1), Chubbello_3 (P1), Donovan_3 (P1), Dynamo_3 (P1), Etoile_3 (P1), FirstPlacePfu_3 (P1), Fishburne_3 (P1), GaloreK_3 (P1), Gavriela_3 (P1), Glaske_3 (P1), GreaseLightnin_3 (P1), HUHilltop_3 (P1), Jebeks_3 (P1), Jung_3 (P1), Juniormint_3 (P1), Kari_3 (P1), KilKor_3 (P1), Ksquared_3 (P1), Langerak_3 (P1), Majeke_3 (P1), Malithi_3 (P1), Mangethe_3 (P1), Megiddo_3 (P1), Nazo_3 (P4), Necropolis_3 (P1), PeanutPie_3 (P1), Phalm_3 (P1), Phayonce_3 (P5), Phegasus_3 (P1), Phineas_3 (P1), Polkaroo_3 (P1), Purky_3 (P6), Pygmy_3 (P1), REQ2_03 (singleton), Shipwreck_3 (P1), Sonah_3 (P1), StevieRay_3 (P1), StressBall_3 (P1), Techage_3 (P1), Thespis_3 (P1), ThulaThula_3 (P5), Tortellini_3 (P2), Venti_3 (P1), Vidya_3 (P1), Whack_3 (singleton), Willsammy_3 (P1), Xavia_3 (P3), Zilizebeth_3 (P1),

Start 38:
• Found in 43 of 372 ( 11.6% ) of genes in pham
• Manual Annotations of this start: 42 of 335
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amochick_6 (Q), Amymech_6 (Q), Annalisa_4 (CZ4), Beenie_4 (CZ4), BloominB_6 (Q), Clark_4 (CZ4), Daegal_7 (Q), DeepSoil15_6 (Q), Dewey_6 (Q), DobbysSock_3 (CZ4), Dolores_4 (CZ4), Dorito_3 (CZ4), Easley_4 (CZ4), Ein37_6 (Q), Evanesce_6 (Q), Forge_6 (Q), Gancho_5 (Q), Giles_6 (Q), Gravaillia_6 (Q), HH92_6 (Q), Hadrien_6 (Q), Hail_6 (Q), Invectra_4 (CZ4), Kinbote_6 (Q), LilHazelnut_6 (Q), Luke_6 (Q), Luna22_6 (Q), MichaelScott_4 (CZ4), NovoPizza_4 (Q), OBUpride_6 (Q), Oregano_4 (CZ4), PhriskyACE_3 (CZ4), Powerball_3 (CZ4), Rizz_5 (CZ4), Samman98_4 (CZ4), Sekhmet_4 (CZ4), Suerte_3 (CZ4), Thimann_4 (CZ4), Tuti_4 (CZ4), Ubuntu_6 (Q), Webster2_6 (Q), WinkNick_4 (CZ4), Wishmaker_6 (Q),

Start 40:
• Found in 10 of 372 ( 2.7% ) of genes in pham
• Manual Annotations of this start: 8 of 335
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Adelaide_3 (EP), Bran_3 (EP), Dina_3 (EP), Gallop_3 (ES), Lederberg_3 (EP), SamW_3 (EP), Spartan_3 (ES), StAB_3 (EP), Stiles_3 (EP), Troy_3 (EP),

Start 41:
• Found in 34 of 372 ( 9.1% ) of genes in pham

• Manual Annotations of this start: 1 of 335
• Called 2.9% of time when present
• Phage (with cluster) where this start called: Fenry_3 (CV),

Start 42:
• Found in 50 of 372 ( 13.4% ) of genes in pham
• No Manual Annotations of this start.
• Called 2.0% of time when present
• Phage (with cluster) where this start called: MakCheese_3 (DW),

Start 43:
• Found in 14 of 372 ( 3.8% ) of genes in pham
• Manual Annotations of this start: 12 of 335
• Called 85.7% of time when present
• Phage (with cluster) where this start called: Araceli_7 (BH), Bogota_7 (BH), Crosby_7 (BH), Henoccus_7 (BH), Intolerant_7 (BH), JackieB_6 (BH), LazerLemon_6 (BH), Marky_7 (BH), Microdon_7 (BH), Shynx_7 (BH), Stuff_7 (BH), UNTPL_7 (BH),

Start 44:
• Found in 28 of 372 ( 7.5% ) of genes in pham
• Manual Annotations of this start: 16 of 335
• Called 67.9% of time when present
• Phage (with cluster) where this start called: Attis_3 (CZ2), Bjanes7_3 (CZ2), Cynthia_3 (CZ2), Denise_3 (CZ5), Ebert_3 (CZ2), FroggyToad_3 (CZ2), GemG_3 (CZ2), Gizermo_3 (CZ2), JCole_3 (CZ2), Jalleen_3 (CZ2), Mocha12_3 (CZ2), Sahara_3 (CZ2), Savage_3 (CZ2), SoilAssassin_3 (CZ2), Sproutie_3 (CZ2), TuertoX_3 (CZ2), Vasanti_3 (CZ2), Yeet412_3 (CZ2), Yinzer_3 (CZ2),

Start 46:
• Found in 53 of 372 ( 14.2% ) of genes in pham
• Manual Annotations of this start: 31 of 335
• Called 64.2% of time when present
• Phage (with cluster) where this start called: AllBusiness_6 (FF), BigSherm_7 (FF), Clap_3 (CZ2), Cole_5 (FF), Dirtdigger_6 (FF), Donatella_6 (FF), EdnaMode_3 (CZ2), Elesar_6 (FF), Guinevere_7 (FF), Gusanita_5 (FF), Haley23_3 (CZ2), Halloweekend_5 (FF), Ichiang_5 (FF), IsHungry_7 (FF), Julie_7 (FF), Kihatsu_8 (FF), Lamberg_3 (CZ2), Lenoxika_7 (FF), LordFarquaad_3 (CZ2), Matteo_3 (CZ2), MillySue_7 (FF), Nandita_7 (FF), Nettuno_3 (CZ2), Pickett_3 (CZ2), Popper_5 (FF), QuinnAvery_7 (FF), Ryan_7 (FF), Saintcarr_6 (FF), Schism_7 (FF), ToastyOats_8 (FF), Toodles_6 (FF), Whiteclaw_3 (CZ2), Yonex_7 (FF), Zaheer_7 (FF),

Start 47:
• Found in 4 of 372 ( 1.1% ) of genes in pham
• Manual Annotations of this start: 2 of 335
• Called 50.0% of time when present
• Phage (with cluster) where this start called: ApoKipo_17 (AL), Kovu_17 (AL),

Start 50:
• Found in 1 of 372 ( 0.3% ) of genes in pham
• Manual Annotations of this start: 1 of 335
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GoodLuckBabe_7 (FF),

Start 51:
• Found in 7 of 372 ( 1.9% ) of genes in pham
• Manual Annotations of this start: 7 of 335
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Edmundo_16 (AL), Laroye_16 (AL), LiSara_16 (AL), Salgado_16 (AL), Shrooms_16 (AL), Waltz_16 (AL), Wheelbite_16 (AL),

Start 52:
• Found in 3 of 372 ( 0.8% ) of genes in pham
• Manual Annotations of this start: 2 of 335
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Kharcho_84 (FM), Ottawa_84 (FM),

**Summary by clusters:**

There are 35 clusters represented in this pham: singleton, DI, CZ2, CZ3, DB, CZ7, CZ4, CZ5, FF, FH, DW, FL, FM, UNK, CV, GL, AH, P2, P3, P1, P6, P4, P5, BH, AL, AO, Q, CZ, AR, AO3, AO2, AO1, Z, EP, ES,

Info for manual annotations of cluster AH:
•Start number 13 was manually annotated 1 time for cluster AH.

Info for manual annotations of cluster AL:
•Start number 47 was manually annotated 2 times for cluster AL.
•Start number 51 was manually annotated 7 times for cluster AL.

Info for manual annotations of cluster AO:
•Start number 24 was manually annotated 1 time for cluster AO.

Info for manual annotations of cluster AO1:
•Start number 30 was manually annotated 7 times for cluster AO1.

Info for manual annotations of cluster AO2:
•Start number 24 was manually annotated 10 times for cluster AO2.
•Start number 30 was manually annotated 8 times for cluster AO2.

Info for manual annotations of cluster AO3:
•Start number 27 was manually annotated 2 times for cluster AO3.

Info for manual annotations of cluster AR:
•Start number 27 was manually annotated 19 times for cluster AR.

Info for manual annotations of cluster BH:
•Start number 43 was manually annotated 12 times for cluster BH.

Info for manual annotations of cluster CV:
•Start number 29 was manually annotated 44 times for cluster CV.
•Start number 41 was manually annotated 1 time for cluster CV.

Info for manual annotations of cluster CZ:
•Start number 29 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ2:
•Start number 44 was manually annotated 15 times for cluster CZ2.
•Start number 46 was manually annotated 9 times for cluster CZ2.

Info for manual annotations of cluster CZ3:
•Start number 29 was manually annotated 1 time for cluster CZ3.
•Start number 33 was manually annotated 2 times for cluster CZ3.

Info for manual annotations of cluster CZ4:
•Start number 30 was manually annotated 2 times for cluster CZ4.
•Start number 33 was manually annotated 3 times for cluster CZ4.
•Start number 38 was manually annotated 18 times for cluster CZ4.

Info for manual annotations of cluster CZ5:
•Start number 44 was manually annotated 1 time for cluster CZ5.

Info for manual annotations of cluster CZ7:
•Start number 33 was manually annotated 1 time for cluster CZ7.

Info for manual annotations of cluster DB:
•Start number 28 was manually annotated 4 times for cluster DB.
•Start number 29 was manually annotated 1 time for cluster DB.
•Start number 30 was manually annotated 6 times for cluster DB.
•Start number 31 was manually annotated 6 times for cluster DB.
•Start number 33 was manually annotated 1 time for cluster DB.

Info for manual annotations of cluster DI:
•Start number 24 was manually annotated 13 times for cluster DI.
•Start number 29 was manually annotated 2 times for cluster DI.

Info for manual annotations of cluster DW:
•Start number 24 was manually annotated 2 times for cluster DW.
•Start number 29 was manually annotated 1 time for cluster DW.
•Start number 30 was manually annotated 2 times for cluster DW.

Info for manual annotations of cluster EP:
•Start number 40 was manually annotated 8 times for cluster EP.

Info for manual annotations of cluster FF:
•Start number 46 was manually annotated 22 times for cluster FF.
•Start number 50 was manually annotated 1 time for cluster FF.

Info for manual annotations of cluster FH:
•Start number 32 was manually annotated 7 times for cluster FH.

Info for manual annotations of cluster FL:
•Start number 27 was manually annotated 9 times for cluster FL.

Info for manual annotations of cluster FM:
•Start number 52 was manually annotated 2 times for cluster FM.

Info for manual annotations of cluster GL:

•Start number 25 was manually annotated 1 time for cluster GL.

Info for manual annotations of cluster P1:
•Start number 36 was manually annotated 44 times for cluster P1.

Info for manual annotations of cluster P2:
•Start number 36 was manually annotated 1 time for cluster P2.

Info for manual annotations of cluster P3:
•Start number 36 was manually annotated 1 time for cluster P3.

Info for manual annotations of cluster P4:
•Start number 36 was manually annotated 2 times for cluster P4.

Info for manual annotations of cluster P5:
•Start number 36 was manually annotated 2 times for cluster P5.

Info for manual annotations of cluster P6:
•Start number 36 was manually annotated 1 time for cluster P6.

Info for manual annotations of cluster Q:
•Start number 38 was manually annotated 24 times for cluster Q.

Info for manual annotations of cluster UNK:
•Start number 27 was manually annotated 1 time for cluster UNK.

Info for manual annotations of cluster Z:
•Start number 27 was manually annotated 1 time for cluster Z.

### *Gene Information:*

Gene: 32HC_10 Start: 5045, Stop: 6496, Start Num: 27
Candidate Starts for 32HC_10:
(Start: 27 @5045 has 32 MA's), (Start: 36 @5063 has 52 MA's), (63, 5138), (81, 5210), (173, 5597), (188, 5645), (190, 5657), (207, 5750), (234, 5891), (250, 5963), (257, 6002), (269, 6074), (279, 6134), (289, 6185), (311, 6320), (377, 6461), (384, 6485), (386, 6488),

Gene: Abba_3 Start: 1942, Stop: 3387, Start Num: 27
Candidate Starts for Abba_3:
(15, 1897), (Start: 27 @1942 has 32 MA's), (61, 2026), (81, 2104), (83, 2134), (90, 2161), (93, 2194), (96, 2209), (113, 2284), (135, 2335), (191, 2566), (212, 2692), (213, 2698), (219, 2728), (251, 2851), (261, 2902), (279, 3022), (303, 3154), (310, 3199), (374, 3337), (389, 3382),

Gene: Adelaide_3 Start: 1970, Stop: 3301, Start Num: 40
Candidate Starts for Adelaide_3:
(Start: 40 @1970 has 8 MA's), (73, 2063), (81, 2108), (85, 2147), (102, 2237), (115, 2270), (133, 2315), (138, 2327), (144, 2345), (147, 2363), (151, 2369), (159, 2414), (166, 2459), (178, 2498), (202, 2627), (212, 2681), (213, 2687), (214, 2693), (229, 2747), (236, 2783), (238, 2789), (246, 2822), (248, 2834), (255, 2873), (282, 3032), (292, 3086), (294, 3101), (309, 3188),

Gene: Adora_3 Start: 1915, Stop: 3219, Start Num: 33

Candidate Starts for Adora_3:
(Start: 30 @1909 has 25 MA's), (Start: 33 @1915 has 7 MA's), (42, 1930), (68, 2008), (77, 2050), (81, 2068), (82, 2089), (96, 2173), (98, 2182), (128, 2263), (145, 2311), (146, 2323), (157, 2359), (167, 2428), (179, 2467), (190, 2512), (191, 2515), (196, 2542), (212, 2641), (213, 2647), (229, 2707), (236, 2743), (255, 2833), (267, 2905), (273, 2932), (282, 2992), (291, 3034), (304, 3118), (322, 3193),

Gene: AirForce1_5 Start: 2969, Stop: 4561, Start Num: 27
Candidate Starts for AirForce1_5:
(19, 2951), (Start: 27 @2969 has 32 MA's), (81, 3113), (84, 3146), (87, 3161), (93, 3203), (96, 3218), (103, 3251), (125, 3323), (135, 3344), (141, 3359), (150, 3398), (190, 3560), (202, 3635), (207, 3653), (212, 3689), (230, 3749), (236, 3782), (246, 3824), (251, 3848), (259, 3893), (261, 3899), (273, 3974), (279, 4019), (289, 4070), (307, 4178), (343, 4289), (362, 4334), (403, 4523),

Gene: AllBusiness_6 Start: 3703, Stop: 4983, Start Num: 46
Candidate Starts for AllBusiness_6:
(Start: 46 @3703 has 31 MA's), (81, 3823), (95, 3925), (102, 3955), (104, 3964), (131, 4024), (138, 4042), (145, 4063), (153, 4099), (166, 4174), (167, 4177), (172, 4198), (185, 4216), (191, 4243), (192, 4249), (206, 4330), (211, 4354), (212, 4369), (214, 4381), (258, 4609),

Gene: Altadena_3 Start: 1916, Stop: 3370, Start Num: 32
Candidate Starts for Altadena_3:
(Start: 32 @1916 has 7 MA's), (81, 2066), (135, 2297), (143, 2321), (159, 2399), (161, 2411), (164, 2426), (188, 2507), (212, 2648), (215, 2663), (244, 2774), (246, 2783), (256, 2837), (261, 2858), (279, 2978), (391, 3362),

Gene: Amochick_6 Start: 3506, Stop: 4915, Start Num: 38
Candidate Starts for Amochick_6:
(Start: 38 @3506 has 42 MA's), (49, 3536), (54, 3554), (60, 3569), (74, 3617), (79, 3641), (81, 3653), (82, 3674), (98, 3767), (101, 3782), (102, 3785), (108, 3809), (140, 3881), (145, 3899), (157, 3953), (158, 3962), (182, 4073), (188, 4103), (203, 4193), (207, 4208), (212, 4244), (225, 4292), (227, 4301), (229, 4310), (232, 4322), (238, 4352), (245, 4379), (246, 4385), (257, 4445), (259, 4454), (266, 4499), (273, 4535), (286, 4613), (289, 4631), (290, 4634), (295, 4667), (298, 4688), (301, 4706), (328, 4811), (373, 4898), (374, 4901),

Gene: Amymech_6 Start: 3506, Stop: 4915, Start Num: 38
Candidate Starts for Amymech_6:
(Start: 38 @3506 has 42 MA's), (49, 3536), (54, 3554), (60, 3569), (74, 3617), (79, 3641), (81, 3653), (82, 3674), (98, 3767), (101, 3782), (102, 3785), (108, 3809), (140, 3881), (145, 3899), (157, 3953), (158, 3962), (182, 4073), (188, 4103), (203, 4193), (207, 4208), (212, 4244), (225, 4292), (227, 4301), (229, 4310), (232, 4322), (238, 4352), (245, 4379), (246, 4385), (257, 4445), (259, 4454), (266, 4499), (273, 4535), (286, 4613), (289, 4631), (290, 4634), (295, 4667), (301, 4706), (328, 4811), (373, 4898), (374, 4901),

Gene: Annalisa_4 Start: 2412, Stop: 3749, Start Num: 38
Candidate Starts for Annalisa_4:
(Start: 38 @2412 has 42 MA's), (77, 2529), (79, 2535), (81, 2547), (83, 2577), (85, 2589), (86, 2592), (89, 2601), (103, 2685), (133, 2757), (144, 2787), (146, 2802), (164, 2883), (185, 2946), (188, 2958), (212, 3099), (225, 3147), (291, 3492), (296, 3537), (307, 3594),

Gene: ApoKipo_17 Start: 10722, Stop: 12194, Start Num: 47
Candidate Starts for ApoKipo_17:
(16, 10647), (Start: 47 @10722 has 2 MA's), (Start: 52 @10737 has 2 MA's), (54, 10746), (81, 10851), (89, 10905), (101, 10977), (106, 10998), (128, 11046), (162, 11181), (164, 11193), (168, 11220), (170,

11229), (172, 11238), (184, 11250), (233, 11520), (234, 11529), (257, 11655), (265, 11697), (270, 11739), (271, 11742), (285, 11823), (299, 11907), (301, 11922), (318, 12006),

Gene: ArV1_002 Start: 1430, Stop: 2860, Start Num: 27
Candidate Starts for ArV1_002:
(Start: 27 @1430 has 32 MA's), (66, 1523), (74, 1550), (75, 1553), (78, 1571), (81, 1586), (85, 1628), (93, 1676), (123, 1793), (135, 1817), (153, 1886), (164, 1943), (189, 2036), (191, 2042), (193, 2051), (199, 2090), (205, 2126), (208, 2138), (211, 2153), (212, 2168), (213, 2174), (215, 2183), (218, 2201), (236, 2270), (245, 2303), (249, 2324), (261, 2384), (262, 2390), (264, 2396), (268, 2438), (280, 2507), (282, 2519), (309, 2675), (335, 2762), (348, 2792), (353, 2801), (358, 2813),

Gene: Araceli_7 Start: 2681, Stop: 4174, Start Num: 43
Candidate Starts for Araceli_7:
(Start: 43 @2681 has 12 MA's), (54, 2717), (72, 2777), (107, 2954), (112, 2984), (120, 3005), (129, 3023), (165, 3179), (187, 3245), (191, 3266), (194, 3281), (200, 3320), (204, 3347), (215, 3404), (234, 3467), (239, 3488), (252, 3542), (256, 3566), (258, 3578), (270, 3662), (282, 3731), (293, 3800), (306, 3866), (308, 3881), (312, 3905), (319, 3932), (333, 3971), (395, 4106), (397, 4118),

Gene: ArchiDore_3 Start: 2034, Stop: 3443, Start Num: 30
Candidate Starts for ArchiDore_3:
(Start: 24 @2022 has 26 MA's), (Start: 29 @2031 has 50 MA's), (Start: 30 @2034 has 25 MA's), (42, 2052), (69, 2130), (81, 2187), (82, 2208), (95, 2289), (114, 2352), (132, 2394), (145, 2430), (158, 2484), (176, 2583), (180, 2592), (194, 2658), (202, 2715), (206, 2730), (209, 2748), (213, 2775), (229, 2835), (238, 2877), (246, 2910), (255, 2961), (267, 3030), (269, 3042), (273, 3057), (284, 3123), (291, 3159), (300, 3216), (301, 3228), (322, 3318), (329, 3333),

Gene: Archis_3 Start: 1940, Stop: 3316, Start Num: 29
Candidate Starts for Archis_3:
(Start: 29 @1940 has 50 MA's), (Start: 41 @1955 has 1 MA's), (42, 1958), (54, 1997), (69, 2045), (77, 2084), (81, 2102), (82, 2123), (98, 2216), (100, 2228), (102, 2234), (145, 2345), (146, 2357), (167, 2456), (179, 2495), (190, 2540), (194, 2558), (196, 2570), (197, 2576), (209, 2648), (212, 2669), (225, 2717), (229, 2735), (231, 2741), (255, 2861), (273, 2960), (279, 3005), (291, 3062), (298, 3113), (307, 3164), (325, 3230), (368, 3308),

Gene: Arib1_3 Start: 2106, Stop: 3569, Start Num: 36
Candidate Starts for Arib1_3:
(Start: 36 @2106 has 52 MA's), (54, 2148), (62, 2178), (81, 2253), (83, 2283), (145, 2496), (168, 2613), (178, 2652), (179, 2655), (180, 2658), (181, 2661), (185, 2676), (190, 2706), (194, 2724), (196, 2736), (213, 2841), (225, 2889), (256, 3036), (262, 3063), (267, 3105), (270, 3123), (273, 3132), (282, 3192), (291, 3234), (296, 3279), (298, 3285), (301, 3303),

Gene: Atcoo_3 Start: 2094, Stop: 3548, Start Num: 36
Candidate Starts for Atcoo_3:
(Start: 36 @2094 has 52 MA's), (54, 2136), (81, 2241), (83, 2271), (95, 2343), (145, 2484), (178, 2640), (179, 2643), (180, 2646), (181, 2649), (185, 2664), (190, 2694), (194, 2712), (196, 2724), (225, 2877), (256, 3024), (267, 3093), (270, 3111), (273, 3120), (291, 3222), (296, 3267), (298, 3273), (301, 3291), (385, 3531),

Gene: Attis_3 Start: 1903, Stop: 3252, Start Num: 44
Candidate Starts for Attis_3:
(Start: 44 @1903 has 16 MA's), (Start: 46 @1906 has 31 MA's), (79, 2017), (81, 2029), (83, 2059), (85, 2071), (86, 2074), (89, 2083), (96, 2134), (144, 2272), (146, 2287), (159, 2341), (208, 2554), (212, 2584), (214, 2596), (225, 2632), (258, 2791), (270, 2866), (277, 2905), (291, 2977), (296, 3022), (307,

3079), (350, 3214),

Gene: Ayotoya_7 Start: 3723, Stop: 5183, Start Num: 24
Candidate Starts for Ayotoya_7:
(Start: 24 @3723 has 26 MA's), (Start: 29 @3732 has 50 MA's), (55, 3795), (77, 3870), (81, 3888), (95, 3990), (100, 4014), (132, 4095), (145, 4131), (153, 4167), (155, 4170), (180, 4293), (189, 4338), (194, 4359), (206, 4431), (212, 4470), (213, 4476), (227, 4527), (229, 4536), (234, 4560), (246, 4611), (255, 4662), (267, 4734), (273, 4761), (277, 4791), (279, 4806), (291, 4863), (297, 4911), (300, 4920), (307, 4965), (309, 4977), (322, 5034), (340, 5070),

Gene: Azula_3 Start: 1974, Stop: 3338, Start Num: 29
Candidate Starts for Azula_3:
(Start: 29 @1974 has 50 MA's), (68, 2073), (77, 2115), (81, 2133), (82, 2154), (87, 2181), (95, 2235), (128, 2328), (145, 2376), (146, 2388), (167, 2493), (179, 2532), (180, 2535), (190, 2577), (191, 2580), (196, 2607), (209, 2685), (212, 2706), (214, 2718), (229, 2772), (242, 2832), (255, 2898), (267, 2970), (273, 2997), (291, 3099), (296, 3144), (298, 3150), (304, 3183), (305, 3189), (342, 3285), (347, 3297),

Gene: BBQValindra_3 Start: 2116, Stop: 3564, Start Num: 30
Candidate Starts for BBQValindra_3:
(Start: 29 @2113 has 50 MA's), (Start: 30 @2116 has 25 MA's), (Start: 33 @2122 has 7 MA's), (59, 2191), (79, 2272), (81, 2284), (84, 2317), (95, 2386), (100, 2410), (138, 2506), (146, 2539), (192, 2728), (198, 2767), (207, 2812), (212, 2848), (246, 2995), (256, 3049), (273, 3142), (284, 3208), (291, 3244), (298, 3295),

Gene: BackstagePass_3 Start: 2093, Stop: 3541, Start Num: 30
Candidate Starts for BackstagePass_3:
(18, 2069), (Start: 29 @2090 has 50 MA's), (Start: 30 @2093 has 25 MA's), (Start: 33 @2099 has 7 MA's), (59, 2168), (79, 2249), (81, 2261), (84, 2294), (95, 2363), (100, 2387), (138, 2483), (146, 2516), (192, 2705), (198, 2744), (207, 2789), (212, 2825), (246, 2972), (256, 3026), (273, 3119), (284, 3185), (291, 3221), (298, 3272),

Gene: Barco_3 Start: 1940, Stop: 3316, Start Num: 29
Candidate Starts for Barco_3:
(Start: 29 @1940 has 50 MA's), (Start: 41 @1955 has 1 MA's), (42, 1958), (54, 1997), (69, 2045), (77, 2084), (81, 2102), (82, 2123), (98, 2216), (100, 2228), (102, 2234), (145, 2345), (146, 2357), (167, 2456), (179, 2495), (190, 2540), (194, 2558), (196, 2570), (197, 2576), (209, 2648), (212, 2669), (225, 2717), (229, 2735), (231, 2741), (255, 2861), (273, 2960), (279, 3005), (291, 3062), (296, 3107), (298, 3113), (307, 3164), (368, 3308),

Gene: BarretLemon_3 Start: 1978, Stop: 3444, Start Num: 30
Candidate Starts for BarretLemon_3:
(Start: 30 @1978 has 25 MA's), (79, 2125), (81, 2137), (90, 2194), (127, 2350), (135, 2368), (172, 2542), (191, 2593), (192, 2599), (202, 2665), (212, 2719), (215, 2734), (219, 2755), (242, 2839), (261, 2929), (279, 3049), (291, 3106), (292, 3118), (307, 3208), (316, 3250), (376, 3397), (377, 3400), (390, 3439),

Gene: Bartholomew_3 Start: 2106, Stop: 3560, Start Num: 36
Candidate Starts for Bartholomew_3:
(Start: 36 @2106 has 52 MA's), (54, 2148), (81, 2253), (83, 2283), (95, 2355), (145, 2496), (178, 2652), (179, 2655), (180, 2658), (181, 2661), (185, 2676), (190, 2706), (194, 2724), (196, 2736), (225, 2889), (256, 3036), (267, 3105), (270, 3123), (273, 3132), (291, 3234), (296, 3279), (298, 3285), (301, 3303), (385, 3543),

Gene: BaxterFox_3 Start: 1912, Stop: 3216, Start Num: 33
Candidate Starts for BaxterFox_3:
(Start: 29 @1906 has 50 MA's), (Start: 33 @1912 has 7 MA's), (42, 1924), (77, 2044), (81, 2062), (82, 2083), (96, 2167), (98, 2176), (128, 2257), (145, 2305), (146, 2317), (157, 2353), (167, 2422), (179, 2461), (191, 2509), (209, 2614), (212, 2635), (213, 2641), (229, 2701), (255, 2827), (273, 2926), (291, 3028), (298, 3079), (304, 3112),

Gene: Beans_3 Start: 1982, Stop: 3427, Start Num: 30
Candidate Starts for Beans_3:
(Start: 30 @1982 has 25 MA's), (Start: 32 @1985 has 7 MA's), (79, 2132), (81, 2144), (90, 2201), (93, 2234), (96, 2249), (108, 2300), (129, 2360), (135, 2375), (153, 2447), (164, 2504), (191, 2600), (207, 2690), (212, 2726), (229, 2786), (245, 2855), (252, 2891), (261, 2936), (273, 3011), (289, 3107), (291, 3113), (307, 3215), (310, 3233), (323, 3284), (333, 3293), (344, 3320), (357, 3344), (376, 3383), (377, 3386),

Gene: Beenie_4 Start: 2412, Stop: 3749, Start Num: 38
Candidate Starts for Beenie_4:
(Start: 38 @2412 has 42 MA's), (77, 2529), (79, 2535), (81, 2547), (83, 2577), (85, 2589), (86, 2592), (89, 2601), (133, 2757), (136, 2763), (144, 2787), (146, 2802), (164, 2883), (184, 2943), (185, 2946), (188, 2958), (212, 3099), (225, 3147), (238, 3207), (291, 3492), (296, 3537), (307, 3594),

Gene: Begonia_3 Start: 1940, Stop: 3316, Start Num: 29
Candidate Starts for Begonia_3:
(Start: 29 @1940 has 50 MA's), (Start: 41 @1955 has 1 MA's), (42, 1958), (54, 1997), (69, 2045), (77, 2084), (81, 2102), (82, 2123), (98, 2216), (100, 2228), (102, 2234), (145, 2345), (146, 2357), (167, 2456), (179, 2495), (190, 2540), (194, 2558), (196, 2570), (197, 2576), (206, 2630), (209, 2648), (212, 2669), (229, 2735), (231, 2741), (255, 2861), (273, 2960), (291, 3062), (298, 3113), (307, 3164), (368, 3308),

Gene: BetterKatz_7 Start: 3724, Stop: 5151, Start Num: 24
Candidate Starts for BetterKatz_7:
(Start: 24 @3724 has 26 MA's), (Start: 29 @3733 has 50 MA's), (55, 3796), (77, 3871), (81, 3889), (95, 3991), (100, 4015), (132, 4096), (145, 4132), (153, 4168), (155, 4171), (180, 4294), (189, 4339), (194, 4360), (206, 4432), (212, 4471), (213, 4477), (227, 4528), (229, 4537), (234, 4561), (246, 4612), (255, 4663), (267, 4735), (273, 4762), (277, 4792), (279, 4807), (291, 4864), (297, 4912), (300, 4921), (307, 4966), (309, 4978), (322, 5029), (340, 5050), (375, 5116),

Gene: Bhagsy_3 Start: 2094, Stop: 3548, Start Num: 36
Candidate Starts for Bhagsy_3:
(Start: 36 @2094 has 52 MA's), (54, 2136), (81, 2241), (83, 2271), (95, 2343), (145, 2484), (178, 2640), (179, 2643), (180, 2646), (181, 2649), (185, 2664), (190, 2694), (194, 2712), (196, 2724), (225, 2877), (256, 3024), (267, 3093), (270, 3111), (273, 3120), (291, 3222), (296, 3267), (298, 3273), (301, 3291), (385, 3531),

Gene: BigDome_3 Start: 1978, Stop: 3444, Start Num: 30
Candidate Starts for BigDome_3:
(Start: 30 @1978 has 25 MA's), (81, 2137), (90, 2194), (96, 2242), (127, 2350), (135, 2368), (172, 2542), (191, 2593), (192, 2599), (202, 2665), (212, 2719), (215, 2734), (219, 2755), (242, 2839), (261, 2929), (279, 3049), (291, 3106), (292, 3118), (307, 3208), (316, 3250), (361, 3361), (376, 3397), (377, 3400), (390, 3439),

Gene: BigNuz_3 Start: 2082, Stop: 3530, Start Num: 36
Candidate Starts for BigNuz_3:

(Start: 36 @2082 has 52 MA's), (54, 2130), (81, 2235), (83, 2265), (87, 2283), (94, 2334), (95, 2337), (131, 2439), (145, 2478), (178, 2634), (180, 2640), (181, 2643), (185, 2658), (190, 2688), (194, 2706), (213, 2823), (225, 2871), (228, 2883), (256, 3018), (267, 3087), (270, 3105), (273, 3114), (291, 3216), (296, 3261), (298, 3267), (301, 3285), (385, 3513),

Gene: BigSherm_7 Start: 3651, Stop: 4931, Start Num: 46
Candidate Starts for BigSherm_7:
(Start: 46 @3651 has 31 MA's), (81, 3771), (95, 3873), (103, 3909), (131, 3972), (138, 3990), (145, 4011), (153, 4047), (167, 4125), (172, 4146), (185, 4164), (191, 4191), (192, 4197), (206, 4278), (211, 4302), (212, 4317), (258, 4557), (271, 4635),

Gene: Bjanes7_3 Start: 1903, Stop: 3252, Start Num: 44
Candidate Starts for Bjanes7_3:
(Start: 44 @1903 has 16 MA's), (Start: 46 @1906 has 31 MA's), (79, 2017), (81, 2029), (83, 2059), (85, 2071), (86, 2074), (89, 2083), (96, 2134), (144, 2272), (146, 2287), (159, 2341), (208, 2554), (212, 2584), (214, 2596), (225, 2632), (258, 2791), (270, 2866), (277, 2905), (291, 2977), (296, 3022), (307, 3079), (350, 3214),

Gene: BlackJade_5 Start: 3452, Stop: 5059, Start Num: 27
Candidate Starts for BlackJade_5:
(19, 3434), (Start: 27 @3452 has 32 MA's), (81, 3596), (93, 3686), (96, 3701), (103, 3734), (125, 3806), (135, 3827), (152, 3887), (171, 3995), (202, 4118), (212, 4172), (219, 4208), (230, 4235), (246, 4307), (261, 4382), (273, 4457), (279, 4502), (289, 4553), (296, 4604), (307, 4661), (343, 4769), (362, 4814), (366, 4829), (403, 5021),

Gene: BlingBling_3 Start: 1940, Stop: 3316, Start Num: 29
Candidate Starts for BlingBling_3:
(Start: 29 @1940 has 50 MA's), (Start: 41 @1955 has 1 MA's), (42, 1958), (54, 1997), (69, 2045), (77, 2084), (81, 2102), (82, 2123), (98, 2216), (100, 2228), (102, 2234), (145, 2345), (146, 2357), (167, 2456), (179, 2495), (190, 2540), (194, 2558), (196, 2570), (197, 2576), (209, 2648), (212, 2669), (225, 2717), (229, 2735), (231, 2741), (255, 2861), (273, 2960), (279, 3005), (291, 3062), (298, 3113), (307, 3164), (325, 3230), (368, 3308),

Gene: Blino_3 Start: 1974, Stop: 3341, Start Num: 29
Candidate Starts for Blino_3:
(Start: 29 @1974 has 50 MA's), (68, 2073), (77, 2115), (81, 2133), (82, 2154), (87, 2181), (95, 2235), (102, 2265), (128, 2328), (145, 2376), (146, 2388), (167, 2493), (179, 2532), (190, 2577), (191, 2580), (196, 2607), (209, 2685), (212, 2706), (214, 2718), (229, 2772), (242, 2832), (255, 2898), (267, 2970), (273, 2997), (291, 3099), (296, 3144), (298, 3150), (304, 3183), (305, 3189),

Gene: BloominB_6 Start: 3506, Stop: 4915, Start Num: 38
Candidate Starts for BloominB_6:
(Start: 38 @3506 has 42 MA's), (49, 3536), (54, 3554), (60, 3569), (74, 3617), (79, 3641), (81, 3653), (82, 3674), (98, 3767), (101, 3782), (102, 3785), (108, 3809), (140, 3881), (145, 3899), (157, 3953), (158, 3962), (182, 4073), (188, 4103), (203, 4193), (207, 4208), (212, 4244), (225, 4292), (227, 4301), (229, 4310), (232, 4322), (238, 4352), (245, 4379), (246, 4385), (257, 4445), (259, 4454), (266, 4499), (273, 4535), (286, 4613), (289, 4631), (290, 4634), (295, 4667), (298, 4688), (301, 4706), (328, 4811), (373, 4898), (374, 4901),

Gene: Blueberry_3 Start: 1974, Stop: 3338, Start Num: 29
Candidate Starts for Blueberry_3:
(Start: 29 @1974 has 50 MA's), (68, 2073), (77, 2115), (81, 2133), (82, 2154), (87, 2181), (95, 2235), (128, 2328), (145, 2376), (146, 2388), (167, 2493), (179, 2532), (180, 2535), (190, 2577), (191, 2580),

(196, 2607), (209, 2685), (212, 2706), (214, 2718), (229, 2772), (242, 2832), (255, 2898), (267, 2970), (273, 2997), (291, 3099), (296, 3144), (298, 3150), (304, 3183), (305, 3189), (342, 3285), (347, 3297),

Gene: Bock_7 Start: 3483, Stop: 4901, Start Num: 29
Candidate Starts for Bock_7:
(Start: 24 @3474 has 26 MA's), (Start: 29 @3483 has 50 MA's), (54, 3543), (55, 3546), (77, 3621), (81, 3639), (95, 3741), (100, 3765), (132, 3846), (145, 3882), (153, 3918), (155, 3921), (180, 4044), (189, 4089), (194, 4110), (206, 4182), (212, 4221), (213, 4227), (227, 4278), (229, 4287), (234, 4311), (246, 4362), (255, 4413), (267, 4485), (273, 4512), (277, 4542), (279, 4557), (291, 4614), (297, 4662), (300, 4671), (307, 4716), (309, 4728), (322, 4779), (340, 4800), (375, 4866),

Gene: Bogie_3 Start: 2094, Stop: 3548, Start Num: 36
Candidate Starts for Bogie_3:
(Start: 36 @2094 has 52 MA's), (54, 2136), (81, 2241), (83, 2271), (95, 2343), (145, 2484), (178, 2640), (179, 2643), (180, 2646), (181, 2649), (185, 2664), (190, 2694), (194, 2712), (196, 2724), (225, 2877), (256, 3024), (267, 3093), (270, 3111), (273, 3120), (291, 3222), (296, 3267), (298, 3273), (301, 3291), (385, 3531),

Gene: Bogota_7 Start: 2670, Stop: 4205, Start Num: 43
Candidate Starts for Bogota_7:
(Start: 43 @2670 has 12 MA's), (58, 2718), (72, 2766), (107, 2943), (112, 2973), (120, 2994), (129, 3012), (169, 3189), (187, 3234), (191, 3255), (194, 3270), (204, 3336), (215, 3393), (234, 3456), (239, 3477), (252, 3531), (256, 3555), (258, 3567), (282, 3720), (283, 3723), (293, 3789), (302, 3837), (308, 3870), (312, 3894), (319, 3921), (333, 3960), (361, 4029), (395, 4137), (399, 4155),

Gene: Bolt007_3 Start: 1907, Stop: 3382, Start Num: 32
Candidate Starts for Bolt007_3:
(Start: 32 @1907 has 7 MA's), (81, 2060), (135, 2291), (159, 2393), (208, 2612), (209, 2621), (212, 2642), (256, 2831), (261, 2852), (268, 2906), (301, 3098), (391, 3374),

Gene: BossLady_3 Start: 1970, Stop: 3445, Start Num: 24
Candidate Starts for BossLady_3:
(Start: 24 @1970 has 26 MA's), (Start: 30 @1982 has 25 MA's), (79, 2132), (81, 2144), (96, 2249), (107, 2297), (127, 2357), (135, 2375), (141, 2390), (153, 2447), (171, 2546), (191, 2600), (192, 2606), (212, 2726), (213, 2732), (215, 2741), (219, 2762), (242, 2846), (252, 2891), (261, 2936), (277, 3041), (291, 3113), (292, 3125), (307, 3215), (320, 3281), (361, 3368), (376, 3404), (377, 3407),

Gene: Bowser_3 Start: 2116, Stop: 3561, Start Num: 30
Candidate Starts for Bowser_3:
(Start: 29 @2113 has 50 MA's), (Start: 30 @2116 has 25 MA's), (Start: 33 @2122 has 7 MA's), (59, 2188), (79, 2269), (81, 2281), (84, 2314), (95, 2383), (100, 2407), (117, 2449), (138, 2503), (146, 2536), (149, 2545), (192, 2725), (198, 2764), (207, 2809), (212, 2845), (246, 2992), (256, 3046), (273, 3139), (284, 3205), (291, 3241), (298, 3292),

Gene: Bran_3 Start: 1972, Stop: 3303, Start Num: 40
Candidate Starts for Bran_3:
(Start: 40 @1972 has 8 MA's), (73, 2065), (81, 2110), (85, 2149), (133, 2317), (138, 2329), (144, 2347), (147, 2365), (151, 2371), (159, 2416), (166, 2461), (178, 2500), (202, 2629), (212, 2683), (213, 2689), (214, 2695), (229, 2749), (236, 2785), (246, 2824), (255, 2875), (282, 3034), (292, 3088), (294, 3103), (309, 3190),

Gene: Brent_3 Start: 1982, Stop: 3427, Start Num: 30
Candidate Starts for Brent_3:

(Start: 30 @1982 has 25 MA's), (Start: 32 @1985 has 7 MA's), (79, 2132), (81, 2144), (90, 2201), (96, 2249), (129, 2360), (135, 2375), (153, 2447), (161, 2489), (164, 2504), (191, 2600), (207, 2690), (212, 2726), (229, 2786), (245, 2855), (252, 2891), (261, 2936), (273, 3011), (289, 3107), (291, 3113), (310, 3233), (346, 3323), (357, 3344), (376, 3383), (377, 3386),

Gene: BronnyJr_3 Start: 2106, Stop: 3569, Start Num: 36
Candidate Starts for BronnyJr_3:
(Start: 36 @2106 has 52 MA's), (54, 2148), (62, 2178), (81, 2253), (83, 2283), (145, 2496), (168, 2613), (178, 2652), (179, 2655), (180, 2658), (181, 2661), (185, 2676), (190, 2706), (194, 2724), (196, 2736), (213, 2841), (225, 2889), (256, 3036), (262, 3063), (267, 3105), (270, 3123), (273, 3132), (282, 3192), (291, 3234), (296, 3279), (298, 3285), (301, 3303), (332, 3432),

Gene: Brusacoram_3 Start: 2093, Stop: 3547, Start Num: 36
Candidate Starts for Brusacoram_3:
(Start: 36 @2093 has 52 MA's), (54, 2135), (81, 2240), (83, 2270), (95, 2342), (145, 2483), (178, 2639), (179, 2642), (180, 2645), (181, 2648), (185, 2663), (190, 2693), (194, 2711), (196, 2723), (225, 2876), (256, 3023), (267, 3092), (270, 3110), (273, 3119), (291, 3221), (296, 3266), (298, 3272), (301, 3290), (385, 3530),

Gene: Brylie_7 Start: 3471, Stop: 4898, Start Num: 24
Candidate Starts for Brylie_7:
(Start: 24 @3471 has 26 MA's), (Start: 29 @3480 has 50 MA's), (55, 3543), (77, 3618), (81, 3636), (95, 3738), (100, 3762), (132, 3843), (145, 3879), (153, 3915), (155, 3918), (180, 4041), (189, 4086), (194, 4107), (206, 4179), (212, 4218), (213, 4224), (227, 4275), (229, 4284), (234, 4308), (246, 4359), (255, 4410), (267, 4482), (273, 4509), (277, 4539), (279, 4554), (291, 4611), (297, 4659), (300, 4668), (307, 4713), (309, 4725), (322, 4776), (330, 4791), (340, 4797), (375, 4863),

Gene: Bubbykins_4 Start: 2813, Stop: 4231, Start Num: 27
Candidate Starts for Bubbykins_4:
(Start: 27 @2813 has 32 MA's), (66, 2897), (75, 2927), (81, 2960), (93, 3050), (95, 3062), (98, 3074), (102, 3092), (116, 3146), (121, 3161), (123, 3167), (135, 3191), (159, 3290), (164, 3317), (186, 3389), (188, 3401), (189, 3410), (190, 3413), (198, 3461), (205, 3500), (208, 3512), (211, 3527), (212, 3542), (213, 3548), (215, 3557), (237, 3647), (245, 3677), (246, 3683), (251, 3707), (261, 3758), (262, 3764), (266, 3797), (268, 3812), (282, 3893), (289, 3929), (307, 4037), (310, 4055), (344, 4154), (353, 4172), (362, 4196),

Gene: Bumble_3 Start: 1910, Stop: 3382, Start Num: 32
Candidate Starts for Bumble_3:
(Start: 32 @1910 has 7 MA's), (54, 1961), (65, 1994), (66, 1997), (81, 2060), (119, 2255), (135, 2291), (159, 2393), (161, 2405), (192, 2522), (212, 2642), (256, 2831), (261, 2852), (279, 2972), (391, 3368),

Gene: Bunker_3 Start: 2116, Stop: 3564, Start Num: 30
Candidate Starts for Bunker_3:
(Start: 29 @2113 has 50 MA's), (Start: 30 @2116 has 25 MA's), (Start: 33 @2122 has 7 MA's), (59, 2191), (79, 2272), (81, 2284), (84, 2317), (95, 2386), (100, 2410), (138, 2506), (146, 2539), (192, 2728), (198, 2767), (207, 2812), (212, 2848), (246, 2995), (256, 3049), (273, 3142), (284, 3208), (291, 3244), (298, 3295),

Gene: Bunnies_3 Start: 2106, Stop: 3560, Start Num: 36
Candidate Starts for Bunnies_3:
(Start: 36 @2106 has 52 MA's), (54, 2148), (81, 2253), (83, 2283), (95, 2355), (145, 2496), (178, 2652), (179, 2655), (180, 2658), (181, 2661), (185, 2676), (190, 2706), (194, 2724), (196, 2736), (225, 2889), (256, 3036), (267, 3105), (270, 3123), (273, 3132), (291, 3234), (296, 3279), (298, 3285), (301, 3303),

(385, 3543),

Gene: CactusJack_3 Start: 2093, Stop: 3547, Start Num: 36
Candidate Starts for CactusJack_3:
(Start: 36 @2093 has 52 MA's), (54, 2135), (81, 2240), (83, 2270), (95, 2342), (145, 2483), (178, 2639), (179, 2642), (180, 2645), (181, 2648), (185, 2663), (190, 2693), (194, 2711), (196, 2723), (225, 2876), (256, 3023), (267, 3092), (270, 3110), (273, 3119), (291, 3221), (296, 3266), (298, 3272), (301, 3290), (385, 3530),

Gene: CalWood4100_3 Start: 1907, Stop: 3382, Start Num: 32
Candidate Starts for CalWood4100_3:
(Start: 32 @1907 has 7 MA's), (81, 2060), (135, 2291), (159, 2393), (161, 2405), (208, 2612), (209, 2621), (212, 2642), (256, 2831), (261, 2852), (268, 2906), (301, 3098), (391, 3374),

Gene: Camster_3 Start: 2106, Stop: 3560, Start Num: 36
Candidate Starts for Camster_3:
(Start: 36 @2106 has 52 MA's), (54, 2148), (81, 2253), (83, 2283), (95, 2355), (145, 2496), (178, 2652), (179, 2655), (180, 2658), (181, 2661), (185, 2676), (190, 2706), (194, 2724), (196, 2736), (225, 2889), (256, 3036), (267, 3105), (270, 3123), (273, 3132), (291, 3234), (296, 3279), (298, 3285), (301, 3303), (385, 3543),

Gene: CaptainKirk2_3 Start: 1940, Stop: 3316, Start Num: 29
Candidate Starts for CaptainKirk2_3:
(Start: 29 @1940 has 50 MA's), (Start: 41 @1955 has 1 MA's), (42, 1958), (54, 1997), (69, 2045), (77, 2084), (81, 2102), (82, 2123), (98, 2216), (100, 2228), (102, 2234), (145, 2345), (146, 2357), (167, 2456), (179, 2495), (190, 2540), (194, 2558), (196, 2570), (197, 2576), (209, 2648), (212, 2669), (225, 2717), (229, 2735), (231, 2741), (255, 2861), (273, 2960), (279, 3005), (291, 3062), (298, 3113), (307, 3164), (368, 3308),

Gene: CarolAnn_3 Start: 1973, Stop: 3340, Start Num: 29
Candidate Starts for CarolAnn_3:
(Start: 29 @1973 has 50 MA's), (68, 2072), (77, 2114), (81, 2132), (82, 2153), (87, 2180), (95, 2234), (102, 2264), (128, 2327), (145, 2375), (146, 2387), (167, 2492), (179, 2531), (190, 2576), (191, 2579), (196, 2606), (209, 2684), (212, 2705), (214, 2717), (229, 2771), (242, 2831), (255, 2897), (267, 2969), (273, 2996), (291, 3098), (296, 3143), (298, 3149), (304, 3182), (305, 3188),

Gene: CheeseSpider_3 Start: 1974, Stop: 3338, Start Num: 29
Candidate Starts for CheeseSpider_3:
(Start: 29 @1974 has 50 MA's), (68, 2073), (77, 2115), (81, 2133), (82, 2154), (95, 2235), (128, 2328), (145, 2376), (146, 2388), (167, 2493), (179, 2532), (190, 2577), (191, 2580), (196, 2607), (209, 2685), (212, 2706), (214, 2718), (229, 2772), (242, 2832), (255, 2898), (267, 2970), (273, 2997), (291, 3099), (298, 3150), (304, 3183), (305, 3189), (342, 3285), (347, 3297),

Gene: Chipko_3 Start: 2209, Stop: 3576, Start Num: 31
Candidate Starts for Chipko_3:
(Start: 31 @2209 has 6 MA's), (64, 2278), (75, 2314), (79, 2335), (81, 2347), (82, 2368), (102, 2479), (138, 2569), (146, 2602), (190, 2782), (207, 2875), (212, 2911), (213, 2917), (242, 3043), (256, 3112), (282, 3265), (291, 3307), (298, 3352), (356, 3496),

Gene: Chipper1996_40 Start: 2813, Stop: 4237, Start Num: 27
Candidate Starts for Chipper1996_40:
(Start: 27 @2813 has 32 MA's), (78, 2948), (81, 2963), (85, 3005), (95, 3065), (97, 3074), (116, 3149), (135, 3194), (143, 3218), (153, 3263), (155, 3266), (157, 3272), (161, 3305), (170, 3356), (174, 3368),

(188, 3404), (191, 3419), (198, 3464), (205, 3503), (212, 3545), (213, 3551), (215, 3560), (218, 3578), (237, 3650), (246, 3686), (249, 3701), (254, 3725), (261, 3761), (262, 3767), (264, 3773), (268, 3815), (280, 3884), (282, 3896), (295, 3968), (299, 3992), (331, 4127), (335, 4136), (348, 4166), (353, 4175), (358, 4187),

Gene: Chocolat_4 Start: 2813, Stop: 4237, Start Num: 27
Candidate Starts for Chocolat_4:
(Start: 27 @2813 has 32 MA's), (78, 2948), (81, 2963), (85, 3005), (95, 3065), (97, 3074), (116, 3149), (135, 3194), (143, 3218), (153, 3263), (155, 3266), (157, 3272), (161, 3305), (170, 3356), (174, 3368), (188, 3404), (191, 3419), (198, 3464), (205, 3503), (212, 3545), (213, 3551), (215, 3560), (218, 3578), (237, 3650), (246, 3686), (249, 3701), (254, 3725), (261, 3761), (262, 3767), (264, 3773), (268, 3815), (280, 3884), (282, 3896), (295, 3968), (299, 3992), (335, 4136), (348, 4166), (353, 4175), (358, 4187),

Gene: Chop_7 Start: 3471, Stop: 4931, Start Num: 24
Candidate Starts for Chop_7:
(Start: 24 @3471 has 26 MA's), (Start: 29 @3480 has 50 MA's), (55, 3543), (77, 3618), (81, 3636), (95, 3738), (100, 3762), (132, 3843), (145, 3879), (153, 3915), (155, 3918), (180, 4041), (189, 4086), (194, 4107), (206, 4179), (212, 4218), (213, 4224), (227, 4275), (229, 4284), (234, 4308), (246, 4359), (255, 4410), (267, 4482), (273, 4509), (277, 4539), (279, 4554), (291, 4611), (297, 4659), (300, 4668), (307, 4713), (309, 4725), (322, 4782), (340, 4818),

Gene: Chubbello_3 Start: 2105, Stop: 3559, Start Num: 36
Candidate Starts for Chubbello_3:
(Start: 36 @2105 has 52 MA's), (54, 2147), (81, 2252), (83, 2282), (95, 2354), (145, 2495), (178, 2651), (179, 2654), (180, 2657), (181, 2660), (185, 2675), (190, 2705), (194, 2723), (196, 2735), (225, 2888), (256, 3035), (267, 3104), (270, 3122), (273, 3131), (291, 3233), (296, 3278), (298, 3284), (301, 3302), (385, 3542),

Gene: Chubster_4 Start: 2810, Stop: 4231, Start Num: 27
Candidate Starts for Chubster_4:
(Start: 27 @2810 has 32 MA's), (78, 2945), (81, 2960), (85, 3002), (95, 3062), (97, 3071), (116, 3146), (135, 3191), (143, 3215), (153, 3260), (155, 3263), (157, 3269), (161, 3302), (170, 3353), (174, 3365), (188, 3401), (191, 3416), (198, 3461), (205, 3500), (212, 3542), (213, 3548), (215, 3557), (218, 3575), (237, 3647), (246, 3683), (249, 3698), (254, 3722), (261, 3758), (262, 3764), (264, 3770), (268, 3812), (280, 3881), (282, 3893), (295, 3965), (299, 3989), (331, 4121), (335, 4130), (348, 4160), (353, 4169), (358, 4181),

Gene: Circuit_3 Start: 1910, Stop: 3364, Start Num: 32
Candidate Starts for Circuit_3:
(Start: 32 @1910 has 7 MA's), (54, 1961), (66, 1997), (81, 2060), (135, 2291), (143, 2315), (159, 2393), (190, 2513), (212, 2642), (256, 2831), (261, 2852), (279, 2972), (391, 3356),

Gene: Clap_3 Start: 1906, Stop: 3252, Start Num: 46
Candidate Starts for Clap_3:
(Start: 44 @1903 has 16 MA's), (Start: 46 @1906 has 31 MA's), (77, 2011), (79, 2017), (81, 2029), (85, 2071), (86, 2074), (89, 2083), (96, 2134), (144, 2272), (146, 2287), (159, 2341), (208, 2554), (212, 2584), (214, 2596), (225, 2632), (258, 2791), (277, 2905), (291, 2977), (296, 3022), (307, 3079),

Gene: Clark_4 Start: 2412, Stop: 3749, Start Num: 38
Candidate Starts for Clark_4:
(Start: 38 @2412 has 42 MA's), (77, 2529), (79, 2535), (81, 2547), (83, 2577), (85, 2589), (86, 2592), (89, 2601), (133, 2757), (136, 2763), (144, 2787), (146, 2802), (164, 2883), (184, 2943), (185, 2946), (188, 2958), (212, 3099), (225, 3147), (238, 3207), (291, 3492), (296, 3537), (307, 3594),

Gene: Cole_5 Start: 3311, Stop: 4591, Start Num: 46
Candidate Starts for Cole_5:
(Start: 46 @3311 has 31 MA's), (81, 3431), (95, 3533), (103, 3569), (104, 3572), (131, 3632), (136, 3644), (138, 3650), (145, 3671), (153, 3707), (167, 3785), (172, 3806), (185, 3824), (188, 3836), (191, 3851), (192, 3857), (206, 3938), (211, 3962), (212, 3977), (214, 3989), (258, 4217),

Gene: Colucci_4 Start: 2813, Stop: 4243, Start Num: 27
Candidate Starts for Colucci_4:
(Start: 27 @2813 has 32 MA's), (57, 2885), (75, 2936), (78, 2954), (81, 2969), (85, 3011), (93, 3059), (95, 3071), (97, 3080), (105, 3116), (123, 3176), (129, 3185), (135, 3200), (143, 3224), (157, 3281), (164, 3329), (190, 3425), (191, 3428), (199, 3476), (205, 3512), (211, 3539), (212, 3554), (213, 3560), (215, 3569), (218, 3587), (236, 3656), (245, 3689), (246, 3695), (249, 3710), (261, 3770), (268, 3824), (282, 3905), (348, 4175), (362, 4208),

Gene: Conboy_4 Start: 2813, Stop: 4237, Start Num: 27
Candidate Starts for Conboy_4:
(Start: 27 @2813 has 32 MA's), (78, 2948), (81, 2963), (85, 3005), (95, 3065), (97, 3074), (116, 3149), (135, 3194), (143, 3218), (153, 3263), (155, 3266), (157, 3272), (161, 3305), (164, 3320), (170, 3356), (174, 3368), (188, 3404), (189, 3413), (191, 3419), (198, 3464), (205, 3503), (212, 3545), (213, 3551), (215, 3560), (218, 3578), (237, 3650), (240, 3665), (246, 3686), (249, 3701), (254, 3725), (261, 3761), (262, 3767), (264, 3773), (268, 3815), (280, 3884), (282, 3896), (295, 3968), (299, 3992), (335, 4136), (353, 4175), (358, 4187),

Gene: Coriander_3 Start: 2208, Stop: 3575, Start Num: 31
Candidate Starts for Coriander_3:
(Start: 31 @2208 has 6 MA's), (64, 2277), (79, 2334), (81, 2346), (82, 2367), (102, 2478), (138, 2568), (190, 2781), (207, 2874), (212, 2910), (213, 2916), (242, 3042), (244, 3048), (248, 3069), (256, 3111), (282, 3264), (291, 3306), (298, 3351), (356, 3498),

Gene: Crosby_7 Start: 2664, Stop: 4199, Start Num: 43
Candidate Starts for Crosby_7:
(Start: 43 @2664 has 12 MA's), (58, 2712), (72, 2760), (107, 2937), (112, 2967), (120, 2988), (125, 3000), (129, 3006), (165, 3162), (169, 3183), (171, 3195), (184, 3222), (191, 3249), (194, 3264), (204, 3330), (215, 3387), (234, 3450), (239, 3471), (252, 3525), (256, 3549), (258, 3561), (282, 3714), (293, 3783), (302, 3831), (308, 3864), (312, 3888), (319, 3915), (333, 3954), (361, 4023), (399, 4149), (401, 4164),

Gene: Cynthia_3 Start: 1903, Stop: 3252, Start Num: 44
Candidate Starts for Cynthia_3:
(Start: 44 @1903 has 16 MA's), (Start: 46 @1906 has 31 MA's), (77, 2011), (79, 2017), (81, 2029), (85, 2071), (86, 2074), (89, 2083), (96, 2134), (144, 2272), (146, 2287), (159, 2341), (208, 2554), (212, 2584), (214, 2596), (225, 2632), (258, 2791), (277, 2905), (291, 2977), (296, 3022), (307, 3079),

Gene: Daegal_7 Start: 3785, Stop: 5194, Start Num: 38
Candidate Starts for Daegal_7:
(Start: 38 @3785 has 42 MA's), (49, 3815), (54, 3833), (60, 3848), (74, 3896), (79, 3920), (81, 3932), (82, 3953), (98, 4046), (101, 4061), (102, 4064), (108, 4088), (140, 4160), (145, 4178), (157, 4232), (158, 4241), (182, 4352), (188, 4382), (203, 4472), (207, 4487), (212, 4523), (225, 4571), (227, 4580), (229, 4589), (232, 4601), (238, 4631), (245, 4658), (246, 4664), (257, 4724), (259, 4733), (266, 4778), (273, 4814), (286, 4892), (289, 4910), (290, 4913), (295, 4946), (298, 4967), (301, 4985), (328, 5090), (373, 5177), (374, 5180),

Gene: DeepSoil15_6 Start: 3506, Stop: 4915, Start Num: 38
Candidate Starts for DeepSoil15_6:
(Start: 38 @3506 has 42 MA's), (49, 3536), (54, 3554), (60, 3569), (74, 3617), (79, 3641), (81, 3653), (82, 3674), (98, 3767), (101, 3782), (102, 3785), (108, 3809), (140, 3881), (145, 3899), (157, 3953), (158, 3962), (182, 4073), (188, 4103), (203, 4193), (207, 4208), (212, 4244), (225, 4292), (227, 4301), (229, 4310), (232, 4322), (238, 4352), (245, 4379), (246, 4385), (257, 4445), (259, 4454), (266, 4499), (273, 4535), (286, 4613), (289, 4631), (290, 4634), (295, 4667), (298, 4688), (301, 4706), (328, 4811), (373, 4898), (374, 4901),

Gene: DelRio_7 Start: 3723, Stop: 5192, Start Num: 24
Candidate Starts for DelRio_7:
(Start: 24 @3723 has 26 MA's), (Start: 29 @3732 has 50 MA's), (55, 3795), (77, 3870), (81, 3888), (95, 3990), (100, 4014), (132, 4095), (145, 4131), (153, 4167), (155, 4170), (157, 4176), (180, 4293), (189, 4338), (194, 4359), (206, 4431), (212, 4470), (213, 4476), (227, 4527), (229, 4536), (234, 4560), (246, 4611), (255, 4662), (267, 4734), (273, 4761), (277, 4791), (279, 4806), (291, 4863), (297, 4911), (300, 4920), (307, 4965), (309, 4977), (322, 5043), (340, 5079),

Gene: Delian_3 Start: 1940, Stop: 3316, Start Num: 29
Candidate Starts for Delian_3:
(Start: 29 @1940 has 50 MA's), (Start: 41 @1955 has 1 MA's), (42, 1958), (54, 1997), (69, 2045), (77, 2084), (81, 2102), (82, 2123), (98, 2216), (100, 2228), (102, 2234), (145, 2345), (146, 2357), (167, 2456), (179, 2495), (190, 2540), (194, 2558), (196, 2570), (197, 2576), (209, 2648), (212, 2669), (225, 2717), (229, 2735), (231, 2741), (255, 2861), (273, 2960), (279, 3005), (291, 3062), (298, 3113), (307, 3164), (368, 3308),

Gene: Denise_3 Start: 1909, Stop: 3258, Start Num: 44
Candidate Starts for Denise_3:
(Start: 44 @1909 has 16 MA's), (Start: 46 @1912 has 31 MA's), (77, 2017), (79, 2023), (81, 2035), (83, 2065), (85, 2077), (86, 2080), (89, 2089), (96, 2140), (109, 2194), (144, 2278), (146, 2293), (159, 2347), (202, 2536), (206, 2551), (208, 2560), (212, 2590), (213, 2596), (225, 2638), (258, 2797), (277, 2911), (302, 3055), (307, 3085), (310, 3103),

Gene: Dewey_6 Start: 3506, Stop: 4915, Start Num: 38
Candidate Starts for Dewey_6:
(Start: 38 @3506 has 42 MA's), (49, 3536), (54, 3554), (60, 3569), (74, 3617), (79, 3641), (81, 3653), (82, 3674), (98, 3767), (101, 3782), (102, 3785), (108, 3809), (140, 3881), (145, 3899), (157, 3953), (158, 3962), (182, 4073), (188, 4103), (203, 4193), (207, 4208), (212, 4244), (225, 4292), (227, 4301), (229, 4310), (232, 4322), (238, 4352), (245, 4379), (246, 4385), (257, 4445), (259, 4454), (266, 4499), (273, 4535), (286, 4613), (289, 4631), (290, 4634), (295, 4667), (298, 4688), (301, 4706), (328, 4811), (373, 4898), (374, 4901),

Gene: Dina_3 Start: 1970, Stop: 3301, Start Num: 40
Candidate Starts for Dina_3:
(Start: 40 @1970 has 8 MA's), (73, 2063), (81, 2108), (85, 2147), (115, 2270), (133, 2315), (138, 2327), (144, 2345), (147, 2363), (151, 2369), (159, 2414), (166, 2459), (178, 2498), (202, 2627), (212, 2681), (213, 2687), (214, 2693), (229, 2747), (236, 2783), (246, 2822), (248, 2834), (255, 2873), (282, 3032), (292, 3086), (294, 3101), (309, 3188),

Gene: Dirtdigger_6 Start: 3563, Stop: 4843, Start Num: 46
Candidate Starts for Dirtdigger_6:
(Start: 46 @3563 has 31 MA's), (81, 3683), (104, 3824), (131, 3884), (136, 3896), (138, 3902), (145, 3923), (153, 3959), (185, 4076), (191, 4103), (192, 4109), (206, 4190), (211, 4214), (212, 4229), (213, 4235), (214, 4241), (217, 4271), (258, 4469), (271, 4547), (274, 4562),

Gene: DirtyBoi_3 Start: 2211, Stop: 3578, Start Num: 31
Candidate Starts for DirtyBoi_3:
(Start: 31 @2211 has 6 MA's), (64, 2283), (79, 2340), (81, 2352), (82, 2373), (83, 2382), (174, 2736), (192, 2796), (207, 2880), (212, 2916), (242, 3048), (256, 3117), (282, 3270), (287, 3294), (290, 3309), (291, 3312), (298, 3357), (356, 3501),

Gene: Divya_3 Start: 1983, Stop: 3371, Start Num: 27
Candidate Starts for Divya_3:
(Start: 27 @1983 has 32 MA's), (65, 2064), (66, 2067), (70, 2076), (79, 2118), (81, 2130), (90, 2187), (123, 2337), (129, 2346), (135, 2361), (199, 2628), (201, 2637), (202, 2652), (212, 2706), (219, 2742), (230, 2769), (244, 2835), (245, 2838), (246, 2844), (249, 2859), (251, 2868), (253, 2877), (259, 2913), (261, 2919), (268, 2973), (307, 3198), (360, 3327), (364, 3336), (374, 3363),

Gene: Dmitri_3 Start: 2208, Stop: 3578, Start Num: 31
Candidate Starts for Dmitri_3:
(Start: 31 @2208 has 6 MA's), (48, 2238), (64, 2280), (75, 2316), (81, 2349), (82, 2370), (83, 2379), (102, 2481), (174, 2733), (175, 2739), (190, 2784), (192, 2793), (207, 2877), (212, 2913), (236, 3021), (242, 3045), (256, 3114), (273, 3207), (282, 3267), (291, 3309), (298, 3354), (356, 3501),

Gene: DobbysSock_3 Start: 1910, Stop: 3247, Start Num: 38
Candidate Starts for DobbysSock_3:
(Start: 38 @1910 has 42 MA's), (77, 2027), (79, 2033), (81, 2045), (83, 2075), (85, 2087), (86, 2090), (89, 2099), (131, 2249), (133, 2255), (144, 2285), (146, 2300), (164, 2381), (185, 2444), (188, 2456), (208, 2567), (212, 2597), (213, 2603), (214, 2609), (225, 2645), (238, 2705), (246, 2738), (258, 2804), (266, 2852), (271, 2882), (291, 2990), (296, 3035), (307, 3092),

Gene: Doggs_3 Start: 2208, Stop: 3578, Start Num: 31
Candidate Starts for Doggs_3:
(Start: 31 @2208 has 6 MA's), (64, 2277), (79, 2334), (81, 2346), (82, 2367), (102, 2478), (138, 2568), (190, 2781), (207, 2874), (212, 2910), (213, 2916), (242, 3042), (244, 3048), (248, 3069), (256, 3111), (282, 3264), (291, 3306), (298, 3351), (356, 3498),

Gene: Dolores_4 Start: 2412, Stop: 3749, Start Num: 38
Candidate Starts for Dolores_4:
(Start: 38 @2412 has 42 MA's), (77, 2529), (79, 2535), (81, 2547), (83, 2577), (85, 2589), (86, 2592), (89, 2601), (133, 2757), (136, 2763), (144, 2787), (146, 2802), (164, 2883), (184, 2943), (185, 2946), (188, 2958), (212, 3099), (225, 3147), (271, 3384), (291, 3492), (296, 3537), (307, 3594),

Gene: Donatella_6 Start: 3815, Stop: 5104, Start Num: 46
Candidate Starts for Donatella_6:
(Start: 46 @3815 has 31 MA's), (77, 3917), (81, 3935), (85, 3977), (115, 4097), (131, 4136), (138, 4154), (145, 4175), (146, 4187), (185, 4328), (191, 4355), (192, 4361), (206, 4442), (211, 4466), (212, 4481), (214, 4493), (217, 4523), (246, 4655), (274, 4814), (279, 4850), (282, 4865), (307, 5009), (326, 5093),

Gene: Donovan_3 Start: 2106, Stop: 3569, Start Num: 36
Candidate Starts for Donovan_3:
(Start: 36 @2106 has 52 MA's), (54, 2148), (62, 2178), (81, 2253), (83, 2283), (145, 2496), (168, 2613), (178, 2652), (179, 2655), (180, 2658), (181, 2661), (185, 2676), (190, 2706), (194, 2724), (196, 2736), (213, 2841), (225, 2889), (256, 3036), (262, 3063), (267, 3105), (270, 3123), (273, 3132), (282, 3192), (289, 3228), (291, 3234), (296, 3279), (298, 3285), (301, 3303),

Gene: Dorito_3 Start: 1910, Stop: 3247, Start Num: 38
Candidate Starts for Dorito_3:
(Start: 38 @1910 has 42 MA's), (77, 2027), (79, 2033), (81, 2045), (83, 2075), (85, 2087), (86, 2090), (131, 2249), (133, 2255), (144, 2285), (146, 2300), (164, 2381), (185, 2444), (188, 2456), (208, 2567), (212, 2597), (213, 2603), (214, 2609), (225, 2645), (238, 2705), (258, 2804), (266, 2852), (271, 2882), (291, 2990), (307, 3092),

Gene: DrYang_4 Start: 2804, Stop: 4228, Start Num: 27
Candidate Starts for DrYang_4:
(Start: 27 @2804 has 32 MA's), (79, 2942), (81, 2954), (85, 2996), (95, 3056), (135, 3185), (143, 3209), (150, 3239), (153, 3254), (155, 3257), (190, 3407), (191, 3410), (198, 3455), (205, 3494), (211, 3521), (212, 3536), (213, 3542), (215, 3551), (218, 3569), (237, 3641), (245, 3671), (249, 3692), (261, 3752), (262, 3758), (264, 3764), (268, 3806), (280, 3875), (282, 3887), (295, 3959), (301, 3998), (310, 4049), (331, 4121), (335, 4130), (348, 4160), (353, 4169), (358, 4181), (369, 4208),

Gene: DumpsterDude_3 Start: 2022, Stop: 3443, Start Num: 24
Candidate Starts for DumpsterDude_3:
(Start: 24 @2022 has 26 MA's), (Start: 29 @2031 has 50 MA's), (69, 2130), (77, 2169), (81, 2187), (82, 2208), (95, 2289), (114, 2352), (132, 2394), (145, 2430), (153, 2466), (176, 2583), (180, 2592), (194, 2658), (203, 2718), (209, 2748), (212, 2769), (229, 2835), (238, 2877), (246, 2910), (255, 2961), (267, 3030), (269, 3042), (273, 3057), (284, 3123), (291, 3159), (300, 3216), (301, 3228), (329, 3333),

Gene: Dynamo_3 Start: 2106, Stop: 3560, Start Num: 36
Candidate Starts for Dynamo_3:
(Start: 36 @2106 has 52 MA's), (54, 2148), (81, 2253), (83, 2283), (95, 2355), (145, 2496), (178, 2652), (179, 2655), (180, 2658), (181, 2661), (185, 2676), (190, 2706), (194, 2724), (196, 2736), (225, 2889), (256, 3036), (267, 3105), (270, 3123), (273, 3132), (291, 3234), (296, 3279), (298, 3285), (301, 3303), (385, 3543),

Gene: Easley_4 Start: 2412, Stop: 3749, Start Num: 38
Candidate Starts for Easley_4:
(Start: 38 @2412 has 42 MA's), (77, 2529), (79, 2535), (81, 2547), (83, 2577), (85, 2589), (86, 2592), (89, 2601), (133, 2757), (136, 2763), (144, 2787), (146, 2802), (164, 2883), (184, 2943), (185, 2946), (188, 2958), (212, 3099), (225, 3147), (238, 3207), (291, 3492), (296, 3537), (307, 3594),

Gene: EastWest_3 Start: 1926, Stop: 3377, Start Num: 24
Candidate Starts for EastWest_3:
(Start: 24 @1926 has 26 MA's), (Start: 30 @1938 has 25 MA's), (Start: 32 @1941 has 7 MA's), (81, 2094), (90, 2151), (91, 2166), (98, 2208), (135, 2325), (144, 2352), (160, 2433), (161, 2439), (174, 2502), (191, 2550), (207, 2640), (212, 2676), (213, 2682), (220, 2712), (243, 2799), (246, 2811), (261, 2886), (284, 3027), (352, 3276), (376, 3330), (390, 3372),

Gene: Ebert_3 Start: 1903, Stop: 3252, Start Num: 44
Candidate Starts for Ebert_3:
(Start: 44 @1903 has 16 MA's), (Start: 46 @1906 has 31 MA's), (77, 2011), (79, 2017), (81, 2029), (85, 2071), (86, 2074), (89, 2083), (96, 2134), (144, 2272), (146, 2287), (159, 2341), (208, 2554), (212, 2584), (214, 2596), (225, 2632), (258, 2791), (277, 2905), (291, 2977), (296, 3022), (307, 3079),

Gene: EdgarPoe_4 Start: 2813, Stop: 4237, Start Num: 27
Candidate Starts for EdgarPoe_4:
(Start: 27 @2813 has 32 MA's), (78, 2948), (81, 2963), (85, 3005), (95, 3065), (97, 3074), (116, 3149), (135, 3194), (143, 3218), (153, 3263), (155, 3266), (157, 3272), (161, 3305), (164, 3320), (170, 3356), (174, 3368), (188, 3404), (189, 3413), (191, 3419), (198, 3464), (205, 3503), (212, 3545), (213, 3551),

(215, 3560), (218, 3578), (237, 3650), (240, 3665), (246, 3686), (249, 3701), (254, 3725), (261, 3761), (262, 3767), (264, 3773), (268, 3815), (280, 3884), (282, 3896), (295, 3968), (299, 3992), (335, 4136), (353, 4175), (358, 4187),

Gene: Edmundo_16 Start: 11461, Stop: 12903, Start Num: 51
Candidate Starts for Edmundo_16:
(Start: 51 @11461 has 7 MA's), (54, 11473), (81, 11578), (106, 11725), (122, 11761), (139, 11800), (168, 11947), (170, 11956), (172, 11965), (214, 12142), (222, 12193), (223, 12199), (233, 12247), (257, 12382), (258, 12388), (265, 12424), (271, 12469), (273, 12475), (285, 12550), (291, 12577), (292, 12589), (299, 12634), (307, 12682), (312, 12715), (318, 12733), (323, 12763), (359, 12838), (368, 12862),

Gene: EdnaMode_3 Start: 1906, Stop: 3252, Start Num: 46
Candidate Starts for EdnaMode_3:
(Start: 44 @1903 has 16 MA's), (Start: 46 @1906 has 31 MA's), (79, 2017), (81, 2029), (85, 2071), (86, 2074), (89, 2083), (96, 2134), (144, 2272), (146, 2287), (159, 2341), (208, 2554), (212, 2584), (214, 2596), (225, 2632), (258, 2791), (273, 2875), (277, 2905), (291, 2977), (296, 3022), (307, 3079),

Gene: Ein37_6 Start: 3506, Stop: 4915, Start Num: 38
Candidate Starts for Ein37_6:
(Start: 38 @3506 has 42 MA's), (49, 3536), (54, 3554), (60, 3569), (74, 3617), (79, 3641), (81, 3653), (82, 3674), (98, 3767), (101, 3782), (102, 3785), (108, 3809), (140, 3881), (145, 3899), (157, 3953), (158, 3962), (182, 4073), (188, 4103), (203, 4193), (207, 4208), (212, 4244), (225, 4292), (227, 4301), (229, 4310), (232, 4322), (238, 4352), (245, 4379), (246, 4385), (257, 4445), (259, 4454), (266, 4499), (273, 4535), (286, 4613), (289, 4631), (290, 4634), (295, 4667), (301, 4706), (328, 4811), (373, 4898), (374, 4901),

Gene: Elesar_6 Start: 3685, Stop: 4974, Start Num: 46
Candidate Starts for Elesar_6:
(Start: 46 @3685 has 31 MA's), (77, 3787), (79, 3793), (81, 3805), (102, 3937), (115, 3967), (131, 4006), (137, 4021), (138, 4024), (146, 4057), (167, 4159), (191, 4225), (192, 4231), (206, 4312), (211, 4336), (212, 4351), (214, 4363), (217, 4393), (258, 4591), (282, 4735), (326, 4963),

Gene: Etoile_3 Start: 2106, Stop: 3560, Start Num: 36
Candidate Starts for Etoile_3:
(Start: 36 @2106 has 52 MA's), (54, 2148), (81, 2253), (83, 2283), (95, 2355), (145, 2496), (178, 2652), (179, 2655), (180, 2658), (181, 2661), (185, 2676), (190, 2706), (194, 2724), (196, 2736), (225, 2889), (256, 3036), (267, 3105), (270, 3123), (273, 3132), (291, 3234), (296, 3279), (298, 3285), (301, 3303), (385, 3543),

Gene: Evanesce_6 Start: 3506, Stop: 4915, Start Num: 38
Candidate Starts for Evanesce_6:
(Start: 38 @3506 has 42 MA's), (49, 3536), (54, 3554), (60, 3569), (74, 3617), (79, 3641), (81, 3653), (82, 3674), (98, 3767), (101, 3782), (102, 3785), (108, 3809), (140, 3881), (145, 3899), (157, 3953), (158, 3962), (182, 4073), (188, 4103), (203, 4193), (207, 4208), (212, 4244), (225, 4292), (227, 4301), (229, 4310), (232, 4322), (238, 4352), (245, 4379), (246, 4385), (257, 4445), (259, 4454), (266, 4499), (273, 4535), (286, 4613), (289, 4631), (290, 4634), (295, 4667), (298, 4688), (301, 4706), (328, 4811), (373, 4898), (374, 4901),

Gene: Eyes_3 Start: 2116, Stop: 3570, Start Num: 30
Candidate Starts for Eyes_3:
(Start: 29 @2113 has 50 MA's), (Start: 30 @2116 has 25 MA's), (Start: 33 @2122 has 7 MA's), (59, 2191), (79, 2272), (81, 2284), (84, 2317), (95, 2386), (100, 2410), (117, 2452), (138, 2506), (192,

2728), (198, 2767), (207, 2812), (212, 2848), (214, 2860), (246, 2995), (256, 3049), (273, 3142), (284, 3208), (291, 3244), (298, 3295),

Gene: Fairfaxidum_3 Start: 1950, Stop: 3317, Start Num: 29
Candidate Starts for Fairfaxidum_3:
(Start: 29 @1950 has 50 MA's), (Start: 41 @1962 has 1 MA's), (42, 1965), (54, 2004), (69, 2052), (77, 2091), (81, 2109), (82, 2130), (98, 2223), (100, 2235), (102, 2241), (145, 2352), (157, 2394), (167, 2463), (179, 2502), (186, 2523), (190, 2547), (194, 2565), (196, 2577), (209, 2655), (225, 2724), (229, 2742), (231, 2748), (245, 2811), (255, 2868), (267, 2940), (273, 2967), (291, 3069), (298, 3120), (302, 3141), (304, 3153), (307, 3171), (309, 3183), (368, 3309),

Gene: Fenry_3 Start: 1956, Stop: 3317, Start Num: 41
Candidate Starts for Fenry_3:
(Start: 29 @1941 has 50 MA's), (Start: 41 @1956 has 1 MA's), (42, 1959), (54, 1998), (69, 2046), (77, 2085), (81, 2103), (82, 2124), (98, 2217), (100, 2229), (102, 2235), (145, 2346), (146, 2358), (167, 2457), (179, 2496), (190, 2541), (194, 2559), (196, 2571), (197, 2577), (206, 2631), (209, 2649), (212, 2670), (225, 2718), (229, 2736), (231, 2742), (255, 2862), (273, 2961), (291, 3063), (298, 3114), (307, 3165), (315, 3204), (368, 3309),

Gene: Finkle_3 Start: 2022, Stop: 3293, Start Num: 34
Candidate Starts for Finkle_3:
(Start: 34 @2022 has 1 MA's), (72, 2136), (81, 2181), (82, 2202), (90, 2238), (96, 2286), (100, 2307), (134, 2397), (142, 2415), (145, 2430), (146, 2442), (168, 2553), (169, 2556), (188, 2598), (191, 2613), (194, 2628), (198, 2658), (212, 2739), (213, 2745), (238, 2847), (270, 3018), (273, 3027), (304, 3213),

Gene: FirstPlacePfu_3 Start: 2106, Stop: 3560, Start Num: 36
Candidate Starts for FirstPlacePfu_3:
(Start: 36 @2106 has 52 MA's), (54, 2148), (81, 2253), (83, 2283), (95, 2355), (145, 2496), (178, 2652), (179, 2655), (180, 2658), (181, 2661), (185, 2676), (190, 2706), (194, 2724), (196, 2736), (225, 2889), (256, 3036), (267, 3105), (270, 3123), (273, 3132), (291, 3234), (296, 3279), (298, 3285), (301, 3303), (385, 3543),

Gene: Fishburne_3 Start: 2106, Stop: 3560, Start Num: 36
Candidate Starts for Fishburne_3:
(Start: 36 @2106 has 52 MA's), (54, 2148), (81, 2253), (83, 2283), (95, 2355), (145, 2496), (178, 2652), (179, 2655), (180, 2658), (181, 2661), (185, 2676), (190, 2706), (194, 2724), (196, 2736), (225, 2889), (256, 3036), (267, 3105), (270, 3123), (273, 3132), (291, 3234), (296, 3279), (298, 3285), (301, 3303), (385, 3543),

Gene: Forge_6 Start: 3506, Stop: 4915, Start Num: 38
Candidate Starts for Forge_6:
(Start: 38 @3506 has 42 MA's), (49, 3536), (54, 3554), (60, 3569), (74, 3617), (79, 3641), (81, 3653), (82, 3674), (98, 3767), (101, 3782), (102, 3785), (108, 3809), (140, 3881), (145, 3899), (157, 3953), (158, 3962), (182, 4073), (188, 4103), (203, 4193), (207, 4208), (212, 4244), (225, 4292), (227, 4301), (229, 4310), (232, 4322), (238, 4352), (245, 4379), (246, 4385), (257, 4445), (259, 4454), (266, 4499), (273, 4535), (286, 4613), (289, 4631), (290, 4634), (295, 4667), (298, 4688), (301, 4706), (328, 4811), (373, 4898), (374, 4901),

Gene: Francois_7 Start: 3470, Stop: 4897, Start Num: 24
Candidate Starts for Francois_7:
(Start: 24 @3470 has 26 MA's), (Start: 29 @3479 has 50 MA's), (55, 3542), (60, 3554), (77, 3617), (79, 3623), (81, 3635), (132, 3842), (145, 3878), (153, 3914), (155, 3917), (180, 4040), (194, 4106), (198, 4136), (212, 4217), (213, 4223), (229, 4283), (234, 4307), (246, 4358), (255, 4409), (267, 4481), (273,

4508), (277, 4538), (279, 4553), (291, 4610), (297, 4658), (300, 4667), (307, 4712), (309, 4724), (322, 4775), (340, 4796), (372, 4859),

Gene: Franzy_3 Start: 1982, Stop: 3427, Start Num: 30
Candidate Starts for Franzy_3:
(Start: 30 @1982 has 25 MA's), (Start: 32 @1985 has 7 MA's), (79, 2132), (81, 2144), (90, 2201), (96, 2249), (129, 2360), (135, 2375), (153, 2447), (161, 2489), (164, 2504), (191, 2600), (207, 2690), (212, 2726), (229, 2786), (245, 2855), (252, 2891), (261, 2936), (264, 2948), (273, 3011), (289, 3107), (291, 3113), (310, 3233), (346, 3323), (357, 3344), (376, 3383), (377, 3386),

Gene: FroggyToad_3 Start: 1904, Stop: 3253, Start Num: 44
Candidate Starts for FroggyToad_3:
(Start: 44 @1904 has 16 MA's), (Start: 46 @1907 has 31 MA's), (77, 2012), (79, 2018), (81, 2030), (83, 2060), (85, 2072), (86, 2075), (89, 2084), (96, 2135), (109, 2189), (133, 2243), (144, 2273), (146, 2288), (159, 2342), (212, 2585), (214, 2597), (225, 2633), (258, 2792), (277, 2906), (296, 3023), (307, 3080),

Gene: Frokostdame_3 Start: 1976, Stop: 3409, Start Num: 29
Candidate Starts for Frokostdame_3:
(Start: 24 @1967 has 26 MA's), (Start: 29 @1976 has 50 MA's), (68, 2075), (77, 2117), (81, 2135), (82, 2156), (87, 2183), (95, 2237), (128, 2330), (145, 2378), (146, 2390), (167, 2495), (179, 2534), (190, 2579), (191, 2582), (209, 2687), (212, 2708), (214, 2720), (229, 2774), (242, 2834), (255, 2900), (267, 2972), (273, 2999), (291, 3101), (298, 3152), (304, 3185), (305, 3191), (327, 3275), (345, 3302),

Gene: GEazy_3 Start: 2122, Stop: 3561, Start Num: 33
Candidate Starts for GEazy_3:
(Start: 29 @2113 has 50 MA's), (Start: 33 @2122 has 7 MA's), (59, 2188), (79, 2269), (81, 2281), (84, 2314), (95, 2383), (100, 2407), (138, 2503), (192, 2725), (198, 2764), (206, 2806), (207, 2809), (212, 2845), (246, 2992), (256, 3046), (273, 3139), (279, 3184), (284, 3205), (291, 3241), (298, 3292),

Gene: Gallop_3 Start: 1946, Stop: 3229, Start Num: 40
Candidate Starts for Gallop_3:
(35, 1940), (Start: 40 @1946 has 8 MA's), (Start: 43 @1955 has 12 MA's), (67, 2006), (77, 2048), (81, 2066), (85, 2108), (87, 2114), (97, 2177), (98, 2180), (103, 2204), (138, 2285), (157, 2351), (166, 2417), (190, 2498), (195, 2525), (212, 2627), (229, 2693), (230, 2696), (262, 2849), (266, 2882), (267, 2891), (268, 2897), (269, 2903), (281, 2975), (282, 2978), (292, 3035), (301, 3092), (314, 3161),

Gene: GaloreK_3 Start: 2106, Stop: 3569, Start Num: 36
Candidate Starts for GaloreK_3:
(Start: 36 @2106 has 52 MA's), (54, 2148), (62, 2178), (81, 2253), (83, 2283), (145, 2496), (168, 2613), (178, 2652), (179, 2655), (180, 2658), (181, 2661), (185, 2676), (190, 2706), (194, 2724), (196, 2736), (213, 2841), (225, 2889), (256, 3036), (262, 3063), (267, 3105), (270, 3123), (273, 3132), (282, 3192), (289, 3228), (291, 3234), (296, 3279), (298, 3285), (301, 3303),

Gene: Gambino_3 Start: 1974, Stop: 3338, Start Num: 29
Candidate Starts for Gambino_3:
(Start: 29 @1974 has 50 MA's), (68, 2073), (77, 2115), (81, 2133), (82, 2154), (87, 2181), (95, 2235), (128, 2328), (145, 2376), (146, 2388), (167, 2493), (179, 2532), (180, 2535), (190, 2577), (191, 2580), (196, 2607), (209, 2685), (212, 2706), (214, 2718), (229, 2772), (242, 2832), (255, 2898), (267, 2970), (273, 2997), (291, 3099), (296, 3144), (298, 3150), (304, 3183), (305, 3189), (342, 3285), (347, 3297),

Gene: Gancho_5 Start: 3212, Stop: 4621, Start Num: 38
Candidate Starts for Gancho_5:

(Start: 38 @3212 has 42 MA's), (49, 3242), (54, 3260), (60, 3275), (74, 3323), (79, 3347), (81, 3359), (82, 3380), (98, 3473), (101, 3488), (102, 3491), (108, 3515), (140, 3587), (145, 3605), (146, 3617), (157, 3659), (158, 3668), (182, 3779), (203, 3899), (207, 3914), (212, 3950), (225, 3998), (227, 4007), (229, 4016), (232, 4028), (238, 4058), (245, 4085), (246, 4091), (257, 4151), (259, 4160), (266, 4205), (267, 4214), (273, 4241), (286, 4319), (289, 4337), (290, 4340), (295, 4373), (298, 4394), (301, 4412), (328, 4517), (373, 4604), (374, 4607),

Gene: Gavriela_3 Start: 2093, Stop: 3547, Start Num: 36
Candidate Starts for Gavriela_3:
(Start: 36 @2093 has 52 MA's), (54, 2135), (81, 2240), (83, 2270), (95, 2342), (145, 2483), (178, 2639), (179, 2642), (180, 2645), (181, 2648), (185, 2663), (190, 2693), (194, 2711), (196, 2723), (225, 2876), (256, 3023), (267, 3092), (270, 3110), (273, 3119), (291, 3221), (296, 3266), (298, 3272), (301, 3290), (385, 3530),

Gene: GemG_3 Start: 1903, Stop: 3252, Start Num: 44
Candidate Starts for GemG_3:
(Start: 44 @1903 has 16 MA's), (Start: 46 @1906 has 31 MA's), (77, 2011), (79, 2017), (81, 2029), (85, 2071), (86, 2074), (89, 2083), (96, 2134), (144, 2272), (146, 2287), (159, 2341), (208, 2554), (212, 2584), (214, 2596), (225, 2632), (258, 2791), (277, 2905), (291, 2977), (296, 3022), (307, 3079),

Gene: Giles_6 Start: 3506, Stop: 4915, Start Num: 38
Candidate Starts for Giles_6:
(Start: 38 @3506 has 42 MA's), (49, 3536), (54, 3554), (60, 3569), (74, 3617), (79, 3641), (81, 3653), (82, 3674), (98, 3767), (101, 3782), (102, 3785), (108, 3809), (140, 3881), (145, 3899), (157, 3953), (158, 3962), (182, 4073), (188, 4103), (203, 4193), (207, 4208), (212, 4244), (225, 4292), (227, 4301), (229, 4310), (232, 4322), (238, 4352), (245, 4379), (246, 4385), (257, 4445), (259, 4454), (266, 4499), (273, 4535), (286, 4613), (289, 4631), (290, 4634), (295, 4667), (298, 4688), (301, 4706), (328, 4811), (373, 4898), (374, 4901),

Gene: Gizermo_3 Start: 1903, Stop: 3252, Start Num: 44
Candidate Starts for Gizermo_3:
(Start: 44 @1903 has 16 MA's), (Start: 46 @1906 has 31 MA's), (77, 2011), (79, 2017), (81, 2029), (85, 2071), (86, 2074), (89, 2083), (96, 2134), (144, 2272), (146, 2287), (159, 2341), (208, 2554), (212, 2584), (214, 2596), (225, 2632), (258, 2791), (277, 2905), (291, 2977), (296, 3022), (307, 3079),

Gene: Glaske_3 Start: 2093, Stop: 3547, Start Num: 36
Candidate Starts for Glaske_3:
(Start: 36 @2093 has 52 MA's), (54, 2135), (81, 2240), (83, 2270), (95, 2342), (145, 2483), (178, 2639), (179, 2642), (180, 2645), (181, 2648), (185, 2663), (190, 2693), (194, 2711), (196, 2723), (225, 2876), (256, 3023), (267, 3092), (270, 3110), (273, 3119), (291, 3221), (296, 3266), (298, 3272), (301, 3290), (385, 3530),

Gene: GoldDust_5 Start: 3621, Stop: 5210, Start Num: 27
Candidate Starts for GoldDust_5:
(Start: 27 @3621 has 32 MA's), (81, 3768), (93, 3858), (96, 3873), (135, 3999), (190, 4215), (198, 4263), (212, 4344), (213, 4350), (238, 4446), (246, 4479), (253, 4512), (261, 4554), (273, 4629), (403, 5166), (406, 5202),

Gene: Gooberta_5 Start: 3621, Stop: 5210, Start Num: 27
Candidate Starts for Gooberta_5:
(Start: 27 @3621 has 32 MA's), (81, 3768), (93, 3858), (96, 3873), (135, 3999), (190, 4215), (198, 4263), (212, 4344), (213, 4350), (238, 4446), (246, 4479), (253, 4512), (261, 4554), (273, 4629), (403, 5166), (406, 5202),

Gene: GoodLuckBabe_7 Start: 3673, Stop: 4935, Start Num: 50
Candidate Starts for GoodLuckBabe_7:
(Start: 50 @3673 has 1 MA's), (81, 3778), (103, 3916), (131, 3979), (138, 3997), (145, 4018), (153, 4054), (157, 4063), (191, 4195), (192, 4201), (206, 4282), (211, 4306), (212, 4321), (213, 4327), (214, 4333), (217, 4363), (258, 4561), (271, 4639), (273, 4645),

Gene: GrandSlam_7 Start: 3471, Stop: 4931, Start Num: 24
Candidate Starts for GrandSlam_7:
(Start: 24 @3471 has 26 MA's), (Start: 29 @3480 has 50 MA's), (55, 3543), (77, 3618), (81, 3636), (95, 3738), (100, 3762), (132, 3843), (145, 3879), (153, 3915), (155, 3918), (180, 4041), (189, 4086), (194, 4107), (206, 4179), (212, 4218), (213, 4224), (227, 4275), (229, 4284), (234, 4308), (246, 4359), (255, 4410), (267, 4482), (273, 4509), (277, 4539), (279, 4554), (291, 4611), (297, 4659), (300, 4668), (307, 4713), (309, 4725), (322, 4782), (340, 4818),

Gene: Gravaillia_6 Start: 3245, Stop: 4654, Start Num: 38
Candidate Starts for Gravaillia_6:
(Start: 38 @3245 has 42 MA's), (49, 3275), (54, 3293), (60, 3308), (74, 3356), (79, 3380), (81, 3392), (82, 3413), (98, 3506), (101, 3521), (102, 3524), (108, 3548), (140, 3620), (145, 3638), (146, 3650), (157, 3692), (158, 3701), (182, 3812), (203, 3932), (207, 3947), (212, 3983), (225, 4031), (227, 4040), (229, 4049), (232, 4061), (238, 4091), (245, 4118), (246, 4124), (257, 4184), (259, 4193), (266, 4238), (267, 4247), (273, 4274), (286, 4352), (289, 4370), (290, 4373), (295, 4406), (298, 4427), (301, 4445), (328, 4550), (373, 4637), (374, 4640),

Gene: GravityBall_3 Start: 1978, Stop: 3444, Start Num: 30
Candidate Starts for GravityBall_3:
(Start: 30 @1978 has 25 MA's), (81, 2137), (90, 2194), (96, 2242), (127, 2350), (135, 2368), (172, 2542), (191, 2593), (192, 2599), (202, 2665), (212, 2719), (215, 2734), (219, 2755), (242, 2839), (261, 2929), (279, 3049), (291, 3106), (292, 3118), (307, 3208), (316, 3250), (376, 3397), (377, 3400), (390, 3439),

Gene: GreaseLightnin_3 Start: 2106, Stop: 3560, Start Num: 36
Candidate Starts for GreaseLightnin_3:
(Start: 36 @2106 has 52 MA's), (54, 2148), (81, 2253), (83, 2283), (95, 2355), (145, 2496), (178, 2652), (179, 2655), (180, 2658), (181, 2661), (185, 2676), (190, 2706), (194, 2724), (196, 2736), (225, 2889), (256, 3036), (267, 3105), (270, 3123), (273, 3132), (291, 3234), (296, 3279), (298, 3285), (301, 3303), (385, 3543),

Gene: Grekaycon_3 Start: 1970, Stop: 3445, Start Num: 24
Candidate Starts for Grekaycon_3:
(Start: 24 @1970 has 26 MA's), (Start: 30 @1982 has 25 MA's), (79, 2132), (81, 2144), (96, 2249), (127, 2357), (135, 2375), (141, 2390), (153, 2447), (171, 2546), (191, 2600), (192, 2606), (212, 2726), (213, 2732), (215, 2741), (219, 2762), (242, 2846), (252, 2891), (261, 2936), (277, 3041), (291, 3113), (292, 3125), (307, 3215), (361, 3368), (376, 3404), (377, 3407),

Gene: Guacamole_3 Start: 1941, Stop: 3317, Start Num: 29
Candidate Starts for Guacamole_3:
(Start: 29 @1941 has 50 MA's), (Start: 41 @1956 has 1 MA's), (42, 1959), (54, 1998), (69, 2046), (77, 2085), (81, 2103), (82, 2124), (98, 2217), (100, 2229), (102, 2235), (109, 2262), (145, 2346), (146, 2358), (167, 2457), (179, 2496), (190, 2541), (194, 2559), (196, 2571), (197, 2577), (206, 2631), (209, 2649), (212, 2670), (225, 2718), (229, 2736), (231, 2742), (255, 2862), (273, 2961), (291, 3063), (298, 3114), (307, 3165), (368, 3309),

Gene: Guinevere_7 Start: 3674, Stop: 4963, Start Num: 46
Candidate Starts for Guinevere_7:
(Start: 46 @3674 has 31 MA's), (77, 3776), (81, 3794), (85, 3836), (115, 3956), (131, 3995), (138, 4013), (145, 4034), (146, 4046), (185, 4187), (191, 4214), (192, 4220), (206, 4301), (211, 4325), (212, 4340), (213, 4346), (214, 4352), (217, 4382), (246, 4514), (274, 4673), (279, 4709), (282, 4724), (326, 4952),

Gene: Gusanita_5 Start: 3574, Stop: 4854, Start Num: 46
Candidate Starts for Gusanita_5:
(Start: 46 @3574 has 31 MA's), (77, 3676), (81, 3694), (85, 3736), (104, 3835), (115, 3856), (131, 3895), (138, 3913), (146, 3946), (167, 4048), (191, 4114), (192, 4120), (206, 4201), (211, 4225), (212, 4240), (214, 4252), (217, 4282), (258, 4480), (271, 4558), (274, 4573),

Gene: HH92_6 Start: 3506, Stop: 4915, Start Num: 38
Candidate Starts for HH92_6:
(Start: 38 @3506 has 42 MA's), (49, 3536), (54, 3554), (60, 3569), (74, 3617), (79, 3641), (81, 3653), (82, 3674), (98, 3767), (101, 3782), (102, 3785), (108, 3809), (140, 3881), (145, 3899), (157, 3953), (158, 3962), (182, 4073), (188, 4103), (203, 4193), (207, 4208), (212, 4244), (225, 4292), (227, 4301), (229, 4310), (232, 4322), (238, 4352), (245, 4379), (246, 4385), (257, 4445), (259, 4454), (266, 4499), (273, 4535), (286, 4613), (289, 4631), (290, 4634), (295, 4667), (298, 4688), (301, 4706), (328, 4811), (373, 4898), (374, 4901),

Gene: HUHilltop_3 Start: 2106, Stop: 3560, Start Num: 36
Candidate Starts for HUHilltop_3:
(Start: 36 @2106 has 52 MA's), (54, 2148), (81, 2253), (83, 2283), (95, 2355), (145, 2496), (178, 2652), (179, 2655), (180, 2658), (181, 2661), (185, 2676), (190, 2706), (194, 2724), (196, 2736), (225, 2889), (256, 3036), (267, 3105), (270, 3123), (273, 3132), (291, 3234), (296, 3279), (298, 3285), (301, 3303), (385, 3543),

Gene: Hadrien_6 Start: 3506, Stop: 4915, Start Num: 38
Candidate Starts for Hadrien_6:
(Start: 38 @3506 has 42 MA's), (49, 3536), (54, 3554), (60, 3569), (74, 3617), (79, 3641), (81, 3653), (82, 3674), (98, 3767), (101, 3782), (102, 3785), (108, 3809), (140, 3881), (145, 3899), (157, 3953), (158, 3962), (182, 4073), (188, 4103), (203, 4193), (207, 4208), (212, 4244), (225, 4292), (227, 4301), (229, 4310), (232, 4322), (238, 4352), (245, 4379), (246, 4385), (257, 4445), (259, 4454), (266, 4499), (273, 4535), (286, 4613), (289, 4631), (290, 4634), (295, 4667), (298, 4688), (301, 4706), (328, 4811), (373, 4898), (374, 4901),

Gene: Hail_6 Start: 3506, Stop: 4915, Start Num: 38
Candidate Starts for Hail_6:
(Start: 38 @3506 has 42 MA's), (49, 3536), (54, 3554), (60, 3569), (74, 3617), (79, 3641), (81, 3653), (82, 3674), (98, 3767), (101, 3782), (102, 3785), (108, 3809), (140, 3881), (145, 3899), (157, 3953), (158, 3962), (182, 4073), (188, 4103), (203, 4193), (207, 4208), (212, 4244), (225, 4292), (227, 4301), (229, 4310), (232, 4322), (238, 4352), (245, 4379), (246, 4385), (257, 4445), (259, 4454), (266, 4499), (273, 4535), (286, 4613), (289, 4631), (290, 4634), (295, 4667), (301, 4706), (328, 4811), (373, 4898), (374, 4901),

Gene: Haley23_3 Start: 1906, Stop: 3252, Start Num: 46
Candidate Starts for Haley23_3:
(Start: 44 @1903 has 16 MA's), (Start: 46 @1906 has 31 MA's), (77, 2011), (79, 2017), (81, 2029), (85, 2071), (86, 2074), (89, 2083), (96, 2134), (144, 2272), (146, 2287), (159, 2341), (208, 2554), (212, 2584), (214, 2596), (225, 2632), (258, 2791), (277, 2905), (291, 2977), (296, 3022), (307, 3079),

Gene: Halloweekend_5 Start: 3312, Stop: 4601, Start Num: 46
Candidate Starts for Halloweekend_5:
(Start: 46 @3312 has 31 MA's), (81, 3432), (85, 3474), (115, 3594), (131, 3633), (138, 3651), (145, 3672), (146, 3684), (191, 3852), (192, 3858), (206, 3939), (211, 3963), (212, 3978), (214, 3990), (217, 4020), (246, 4152), (274, 4311), (279, 4347), (282, 4362), (326, 4590),

Gene: Hamood_7 Start: 3480, Stop: 4931, Start Num: 29
Candidate Starts for Hamood_7:
(Start: 24 @3471 has 26 MA's), (Start: 29 @3480 has 50 MA's), (55, 3543), (77, 3618), (81, 3636), (95, 3738), (100, 3762), (132, 3843), (145, 3879), (153, 3915), (155, 3918), (180, 4041), (189, 4086), (194, 4107), (206, 4179), (212, 4218), (213, 4224), (227, 4275), (229, 4284), (234, 4308), (246, 4359), (255, 4410), (267, 4482), (273, 4509), (277, 4539), (279, 4554), (291, 4611), (297, 4659), (300, 4668), (307, 4713), (309, 4725), (322, 4782), (340, 4818),

Gene: HannahD_3 Start: 2113, Stop: 3561, Start Num: 29
Candidate Starts for HannahD_3:
(Start: 29 @2113 has 50 MA's), (Start: 33 @2122 has 7 MA's), (59, 2188), (79, 2269), (81, 2281), (84, 2314), (95, 2383), (100, 2407), (138, 2503), (192, 2725), (198, 2764), (206, 2806), (207, 2809), (212, 2845), (246, 2992), (256, 3046), (273, 3139), (279, 3184), (284, 3205), (291, 3241), (298, 3292),

Gene: Hedwig_3 Start: 2211, Stop: 3575, Start Num: 31
Candidate Starts for Hedwig_3:
(Start: 31 @2211 has 6 MA's), (37, 2223), (57, 2268), (64, 2283), (79, 2340), (81, 2352), (83, 2382), (174, 2736), (190, 2787), (192, 2796), (207, 2880), (212, 2916), (213, 2922), (242, 3048), (256, 3117), (282, 3270), (287, 3294), (291, 3312), (298, 3357), (356, 3498),

Gene: Henoccus_7 Start: 2681, Stop: 4174, Start Num: 43
Candidate Starts for Henoccus_7:
(Start: 43 @2681 has 12 MA's), (54, 2717), (72, 2777), (107, 2954), (112, 2984), (120, 3005), (129, 3023), (165, 3179), (187, 3245), (191, 3266), (194, 3281), (200, 3320), (204, 3347), (215, 3404), (234, 3467), (239, 3488), (252, 3542), (256, 3566), (258, 3578), (270, 3662), (282, 3731), (293, 3800), (306, 3866), (308, 3881), (312, 3905), (319, 3932), (333, 3971), (395, 4106), (397, 4118),

Gene: Hirko_4 Start: 3072, Stop: 4676, Start Num: 27
Candidate Starts for Hirko_4:
(19, 3054), (Start: 27 @3072 has 32 MA's), (81, 3219), (93, 3309), (96, 3324), (135, 3450), (198, 3714), (202, 3741), (212, 3795), (238, 3897), (246, 3930), (253, 3963), (261, 4005), (302, 4254), (403, 4635), (406, 4671),

Gene: Hitter_3 Start: 1940, Stop: 3316, Start Num: 29
Candidate Starts for Hitter_3:
(Start: 29 @1940 has 50 MA's), (Start: 41 @1955 has 1 MA's), (42, 1958), (54, 1997), (69, 2045), (77, 2084), (81, 2102), (82, 2123), (98, 2216), (100, 2228), (102, 2234), (145, 2345), (146, 2357), (167, 2456), (179, 2495), (190, 2540), (194, 2558), (196, 2570), (197, 2576), (209, 2648), (212, 2669), (225, 2717), (229, 2735), (231, 2741), (255, 2861), (273, 2960), (279, 3005), (291, 3062), (298, 3113), (307, 3164), (325, 3230), (368, 3308),

Gene: Hortense_3 Start: 1909, Stop: 3219, Start Num: 30
Candidate Starts for Hortense_3:
(Start: 30 @1909 has 25 MA's), (Start: 33 @1915 has 7 MA's), (42, 1930), (68, 2008), (77, 2050), (81, 2068), (82, 2089), (96, 2173), (98, 2182), (128, 2263), (145, 2311), (146, 2323), (157, 2359), (167, 2428), (179, 2467), (190, 2512), (191, 2515), (196, 2542), (212, 2641), (213, 2647), (229, 2707), (236, 2743), (255, 2833), (267, 2905), (273, 2932), (282, 2992), (291, 3034), (304, 3118), (322, 3193),

Gene: Howe_3 Start: 1915, Stop: 3219, Start Num: 33
Candidate Starts for Howe_3:
(Start: 30 @1909 has 25 MA's), (Start: 33 @1915 has 7 MA's), (42, 1930), (68, 2008), (77, 2050), (81, 2068), (82, 2089), (96, 2173), (98, 2182), (128, 2263), (145, 2311), (146, 2323), (157, 2359), (167, 2428), (179, 2467), (190, 2512), (191, 2515), (196, 2542), (212, 2641), (213, 2647), (229, 2707), (236, 2743), (255, 2833), (267, 2905), (273, 2932), (282, 2992), (291, 3034), (304, 3118), (322, 3193),

Gene: HumptyDumpty_4 Start: 2813, Stop: 4237, Start Num: 27
Candidate Starts for HumptyDumpty_4:
(Start: 27 @2813 has 32 MA's), (78, 2948), (81, 2963), (85, 3005), (95, 3065), (97, 3074), (116, 3149), (135, 3194), (143, 3218), (153, 3263), (155, 3266), (157, 3272), (161, 3305), (170, 3356), (174, 3368), (188, 3404), (191, 3419), (198, 3464), (205, 3503), (212, 3545), (213, 3551), (215, 3560), (237, 3650), (240, 3665), (246, 3686), (249, 3701), (254, 3725), (261, 3761), (262, 3767), (264, 3773), (268, 3815), (280, 3884), (282, 3896), (295, 3968), (299, 3992), (335, 4136), (348, 4166), (353, 4175), (358, 4187),

Gene: Ichiang_5 Start: 3330, Stop: 4619, Start Num: 46
Candidate Starts for Ichiang_5:
(Start: 46 @3330 has 31 MA's), (77, 3432), (81, 3450), (85, 3492), (115, 3612), (131, 3651), (138, 3669), (145, 3690), (146, 3702), (185, 3843), (191, 3870), (192, 3876), (206, 3957), (211, 3981), (212, 3996), (214, 4008), (217, 4038), (246, 4170), (274, 4329), (279, 4365), (282, 4380), (307, 4524), (326, 4608),

Gene: Intolerant_7 Start: 2664, Stop: 4199, Start Num: 43
Candidate Starts for Intolerant_7:
(Start: 43 @2664 has 12 MA's), (58, 2712), (72, 2760), (107, 2937), (112, 2967), (120, 2988), (125, 3000), (129, 3006), (165, 3162), (169, 3183), (171, 3195), (184, 3222), (191, 3249), (194, 3264), (204, 3330), (215, 3387), (234, 3450), (239, 3471), (252, 3525), (256, 3549), (258, 3561), (282, 3714), (293, 3783), (302, 3831), (308, 3864), (312, 3888), (319, 3915), (333, 3954), (361, 4023), (382, 4074), (395, 4131), (399, 4149),

Gene: Invectra_4 Start: 2412, Stop: 3749, Start Num: 38
Candidate Starts for Invectra_4:
(Start: 38 @2412 has 42 MA's), (77, 2529), (79, 2535), (81, 2547), (83, 2577), (85, 2589), (86, 2592), (89, 2601), (133, 2757), (136, 2763), (144, 2787), (146, 2802), (164, 2883), (185, 2946), (188, 2958), (212, 3099), (225, 3147), (238, 3207), (248, 3252), (291, 3492), (296, 3537), (307, 3594),

Gene: IsHungry_7 Start: 3648, Stop: 4928, Start Num: 46
Candidate Starts for IsHungry_7:
(Start: 46 @3648 has 31 MA's), (81, 3768), (131, 3969), (138, 3987), (145, 4008), (153, 4044), (167, 4122), (172, 4143), (185, 4161), (191, 4188), (192, 4194), (206, 4275), (211, 4299), (212, 4314), (214, 4326), (258, 4554), (264, 4575),

Gene: JCole_3 Start: 1903, Stop: 3252, Start Num: 44
Candidate Starts for JCole_3:
(Start: 44 @1903 has 16 MA's), (Start: 46 @1906 has 31 MA's), (77, 2011), (79, 2017), (81, 2029), (85, 2071), (86, 2074), (89, 2083), (96, 2134), (144, 2272), (146, 2287), (159, 2341), (212, 2584), (214, 2596), (225, 2632), (258, 2791), (277, 2905), (296, 3022), (307, 3079),

Gene: JKerns_3 Start: 1970, Stop: 3445, Start Num: 24
Candidate Starts for JKerns_3:
(Start: 24 @1970 has 26 MA's), (Start: 30 @1982 has 25 MA's), (79, 2132), (81, 2144), (96, 2249), (127, 2357), (135, 2375), (153, 2447), (171, 2546), (191, 2600), (192, 2606), (212, 2726), (213, 2732),

(219, 2762), (242, 2846), (261, 2936), (277, 3041), (291, 3113), (292, 3125), (307, 3215), (361, 3368), (376, 3404), (377, 3407),

Gene: JaNo_4 Start: 2813, Stop: 4237, Start Num: 27
Candidate Starts for JaNo_4:
(Start: 27 @2813 has 32 MA's), (78, 2948), (81, 2963), (85, 3005), (95, 3065), (97, 3074), (116, 3149), (135, 3194), (143, 3218), (153, 3263), (155, 3266), (157, 3272), (161, 3305), (170, 3356), (174, 3368), (188, 3404), (191, 3419), (198, 3464), (205, 3503), (212, 3545), (213, 3551), (215, 3560), (237, 3650), (240, 3665), (246, 3686), (249, 3701), (254, 3725), (261, 3761), (262, 3767), (264, 3773), (268, 3815), (280, 3884), (282, 3896), (295, 3968), (299, 3992), (335, 4136), (348, 4166), (353, 4175), (358, 4187),

Gene: JackieB_6 Start: 2557, Stop: 4050, Start Num: 43
Candidate Starts for JackieB_6:
(Start: 43 @2557 has 12 MA's), (54, 2593), (72, 2653), (107, 2830), (112, 2860), (120, 2881), (129, 2899), (165, 3055), (187, 3121), (191, 3142), (194, 3157), (200, 3196), (204, 3223), (215, 3280), (234, 3343), (239, 3364), (241, 3376), (252, 3418), (256, 3442), (258, 3454), (270, 3538), (282, 3607), (293, 3676), (306, 3742), (308, 3757), (312, 3781), (319, 3808), (333, 3847), (395, 3982), (397, 3994),

Gene: Jalammah_3 Start: 1940, Stop: 3316, Start Num: 29
Candidate Starts for Jalammah_3:
(Start: 29 @1940 has 50 MA's), (Start: 41 @1955 has 1 MA's), (42, 1958), (54, 1997), (69, 2045), (77, 2084), (81, 2102), (82, 2123), (98, 2216), (100, 2228), (102, 2234), (145, 2345), (146, 2357), (167, 2456), (179, 2495), (190, 2540), (194, 2558), (196, 2570), (197, 2576), (209, 2648), (212, 2669), (225, 2717), (229, 2735), (231, 2741), (255, 2861), (273, 2960), (279, 3005), (291, 3062), (298, 3113), (307, 3164), (325, 3230), (368, 3308),

Gene: Jalleen_3 Start: 1903, Stop: 3252, Start Num: 44
Candidate Starts for Jalleen_3:
(Start: 44 @1903 has 16 MA's), (Start: 46 @1906 has 31 MA's), (77, 2011), (79, 2017), (81, 2029), (83, 2059), (85, 2071), (86, 2074), (89, 2083), (96, 2134), (144, 2272), (146, 2287), (159, 2341), (208, 2554), (212, 2584), (214, 2596), (225, 2632), (258, 2791), (270, 2866), (277, 2905), (291, 2977), (296, 3022), (307, 3079),

Gene: JasperJr_3 Start: 1941, Stop: 3317, Start Num: 29
Candidate Starts for JasperJr_3:
(Start: 29 @1941 has 50 MA's), (Start: 41 @1956 has 1 MA's), (42, 1959), (54, 1998), (69, 2046), (77, 2085), (81, 2103), (82, 2124), (98, 2217), (100, 2229), (102, 2235), (109, 2262), (145, 2346), (146, 2358), (167, 2457), (179, 2496), (190, 2541), (194, 2559), (196, 2571), (197, 2577), (206, 2631), (209, 2649), (212, 2670), (225, 2718), (229, 2736), (231, 2742), (255, 2862), (273, 2961), (291, 3063), (298, 3114), (307, 3165), (368, 3309),

Gene: Jawnski_3 Start: 1982, Stop: 3427, Start Num: 30
Candidate Starts for Jawnski_3:
(Start: 30 @1982 has 25 MA's), (Start: 32 @1985 has 7 MA's), (79, 2132), (81, 2144), (90, 2201), (96, 2249), (129, 2360), (135, 2375), (153, 2447), (161, 2489), (164, 2504), (191, 2600), (207, 2690), (212, 2726), (229, 2786), (245, 2855), (252, 2891), (261, 2936), (264, 2948), (273, 3011), (289, 3107), (291, 3113), (310, 3233), (346, 3323), (357, 3344), (376, 3383), (377, 3386),

Gene: JayCookie_4 Start: 2813, Stop: 4237, Start Num: 27
Candidate Starts for JayCookie_4:
(Start: 27 @2813 has 32 MA's), (78, 2948), (81, 2963), (85, 3005), (95, 3065), (97, 3074), (116, 3149), (135, 3194), (143, 3218), (153, 3263), (155, 3266), (157, 3272), (161, 3305), (170, 3356), (174, 3368), (188, 3404), (191, 3419), (198, 3464), (205, 3503), (212, 3545), (213, 3551), (215, 3560), (218, 3578),

(237, 3650), (240, 3665), (246, 3686), (249, 3701), (254, 3725), (261, 3761), (262, 3767), (264, 3773), (268, 3815), (280, 3884), (282, 3896), (295, 3968), (299, 3992), (335, 4136), (348, 4166), (353, 4175), (358, 4187),

Gene: Jebeks_3 Start: 2106, Stop: 3569, Start Num: 36
Candidate Starts for Jebeks_3:
(Start: 36 @2106 has 52 MA's), (54, 2148), (62, 2178), (81, 2253), (83, 2283), (145, 2496), (168, 2613), (178, 2652), (179, 2655), (180, 2658), (181, 2661), (185, 2676), (190, 2706), (194, 2724), (196, 2736), (213, 2841), (225, 2889), (256, 3036), (262, 3063), (267, 3105), (270, 3123), (273, 3132), (282, 3192), (289, 3228), (291, 3234), (296, 3279), (298, 3285), (301, 3303),

Gene: Jecs_3 Start: 2187, Stop: 3596, Start Num: 28
Candidate Starts for Jecs_3:
(12, 1977), (14, 2124), (Start: 25 @2181 has 1 MA's), (Start: 28 @2187 has 4 MA's), (81, 2346), (89, 2400), (138, 2601), (146, 2634), (148, 2643), (169, 2754), (198, 2877), (212, 2958), (267, 3216), (270, 3234), (280, 3291), (291, 3345), (296, 3390), (298, 3396), (301, 3414), (304, 3429),

Gene: Jinkies_4 Start: 3168, Stop: 4541, Start Num: 27
Candidate Starts for Jinkies_4:
(Start: 27 @3168 has 32 MA's), (70, 3258), (81, 3312), (84, 3345), (87, 3360), (93, 3402), (96, 3417), (125, 3522), (135, 3543), (150, 3597), (152, 3603), (171, 3711), (202, 3834), (212, 3888), (230, 3951), (238, 3990), (246, 4023), (251, 4047), (259, 4092), (261, 4098), (264, 4110), (273, 4173), (279, 4218), (289, 4269), (296, 4320), (307, 4377), (354, 4503),

Gene: Jordan_3 Start: 1970, Stop: 3445, Start Num: 24
Candidate Starts for Jordan_3:
(Start: 24 @1970 has 26 MA's), (Start: 30 @1982 has 25 MA's), (79, 2132), (81, 2144), (96, 2249), (127, 2357), (135, 2375), (153, 2447), (171, 2546), (191, 2600), (192, 2606), (212, 2726), (213, 2732), (219, 2762), (242, 2846), (261, 2936), (277, 3041), (291, 3113), (292, 3125), (307, 3215), (361, 3368), (376, 3404), (377, 3407),

Gene: JrWilcox_5 Start: 4594, Stop: 5946, Start Num: 25
Candidate Starts for JrWilcox_5:
(Start: 25 @4594 has 1 MA's), (72, 4726), (79, 4762), (81, 4774), (83, 4801), (106, 4918), (117, 4939), (155, 5062), (168, 5143), (214, 5341), (216, 5350), (221, 5389), (224, 5410), (235, 5458), (256, 5575), (257, 5581), (260, 5593), (263, 5605), (271, 5668), (289, 5770), (299, 5833), (300, 5836), (305, 5869), (312, 5914), (313, 5917),

Gene: JuJu_3 Start: 1978, Stop: 3351, Start Num: 29
Candidate Starts for JuJu_3:
(Start: 29 @1978 has 50 MA's), (Start: 36 @1993 has 52 MA's), (48, 2023), (49, 2026), (68, 2083), (81, 2143), (82, 2164), (87, 2191), (95, 2245), (128, 2338), (145, 2386), (167, 2503), (179, 2542), (190, 2587), (191, 2590), (196, 2617), (209, 2695), (212, 2716), (214, 2728), (229, 2782), (242, 2842), (255, 2908), (267, 2980), (273, 3007), (291, 3109), (298, 3160), (304, 3193), (305, 3199), (363, 3328),

Gene: Julie_7 Start: 3885, Stop: 5165, Start Num: 46
Candidate Starts for Julie_7:
(Start: 46 @3885 has 31 MA's), (81, 4005), (83, 4035), (131, 4206), (138, 4224), (145, 4245), (185, 4398), (191, 4425), (192, 4431), (206, 4512), (211, 4536), (212, 4551), (213, 4557), (214, 4563), (258, 4791), (271, 4869), (274, 4884),

Gene: Jung_3 Start: 2093, Stop: 3547, Start Num: 36
Candidate Starts for Jung_3:

(Start: 36 @2093 has 52 MA's), (54, 2135), (81, 2240), (83, 2270), (95, 2342), (145, 2483), (178, 2639), (179, 2642), (180, 2645), (181, 2648), (185, 2663), (190, 2693), (194, 2711), (196, 2723), (225, 2876), (256, 3023), (267, 3092), (270, 3110), (273, 3119), (291, 3221), (296, 3266), (298, 3272), (301, 3290), (385, 3530),

Gene: Juniormint_3 Start: 2106, Stop: 3569, Start Num: 36
Candidate Starts for Juniormint_3:
(Start: 36 @2106 has 52 MA's), (54, 2148), (62, 2178), (81, 2253), (83, 2283), (145, 2496), (168, 2613), (178, 2652), (179, 2655), (180, 2658), (181, 2661), (185, 2676), (190, 2706), (194, 2724), (196, 2736), (213, 2841), (225, 2889), (256, 3036), (262, 3063), (267, 3105), (270, 3123), (273, 3132), (282, 3192), (289, 3228), (291, 3234), (296, 3279), (298, 3285), (301, 3303),

Gene: JustASigh_3 Start: 2347, Stop: 3807, Start Num: 13
Candidate Starts for JustASigh_3:
(Start: 13 @2347 has 1 MA's), (Start: 30 @2425 has 25 MA's), (Start: 47 @2464 has 2 MA's), (72, 2542), (77, 2569), (79, 2575), (81, 2587), (83, 2617), (96, 2692), (103, 2725), (133, 2800), (145, 2833), (146, 2845), (154, 2872), (156, 2875), (180, 2989), (190, 3031), (191, 3034), (198, 3079), (210, 3142), (212, 3160), (213, 3166), (227, 3217), (246, 3301), (248, 3313), (278, 3481), (291, 3550), (298, 3601), (337, 3733),

Gene: KBurrousTX_4 Start: 2837, Stop: 4255, Start Num: 27
Candidate Starts for KBurrousTX_4:
(20, 2822), (Start: 27 @2837 has 32 MA's), (53, 2894), (75, 2957), (78, 2975), (79, 2978), (81, 2990), (84, 3023), (85, 3032), (96, 3095), (100, 3116), (121, 3191), (135, 3221), (157, 3299), (174, 3395), (188, 3431), (191, 3446), (193, 3455), (206, 3533), (211, 3557), (212, 3572), (213, 3578), (215, 3587), (229, 3638), (230, 3641), (236, 3674), (245, 3707), (246, 3713), (249, 3728), (251, 3737), (252, 3743), (261, 3788), (262, 3794), (264, 3800), (268, 3842), (273, 3863), (279, 3908), (280, 3911), (282, 3923), (300, 4022), (335, 4157), (339, 4166), (353, 4196),

Gene: Kabreeze_4 Start: 2813, Stop: 4237, Start Num: 27
Candidate Starts for Kabreeze_4:
(Start: 27 @2813 has 32 MA's), (78, 2948), (81, 2963), (85, 3005), (95, 3065), (97, 3074), (116, 3149), (135, 3194), (143, 3218), (153, 3263), (155, 3266), (157, 3272), (161, 3305), (170, 3356), (174, 3368), (188, 3404), (191, 3419), (198, 3464), (205, 3503), (212, 3545), (213, 3551), (215, 3560), (237, 3650), (240, 3665), (246, 3686), (249, 3701), (254, 3725), (261, 3761), (262, 3767), (264, 3773), (268, 3815), (280, 3884), (282, 3896), (295, 3968), (299, 3992), (335, 4136), (348, 4166), (353, 4175), (358, 4187),

Gene: KappaFarmDelta_3 Start: 1940, Stop: 3301, Start Num: 29
Candidate Starts for KappaFarmDelta_3:
(Start: 29 @1940 has 50 MA's), (Start: 41 @1955 has 1 MA's), (42, 1958), (54, 1997), (69, 2045), (72, 2057), (77, 2084), (81, 2102), (82, 2123), (95, 2204), (98, 2216), (100, 2228), (145, 2345), (146, 2357), (167, 2456), (179, 2495), (190, 2540), (194, 2558), (196, 2570), (197, 2576), (209, 2648), (212, 2669), (214, 2681), (229, 2735), (242, 2795), (250, 2831), (255, 2861), (267, 2933), (273, 2960), (291, 3062), (298, 3113), (302, 3134), (307, 3164), (325, 3218), (368, 3293),

Gene: Kari_3 Start: 2106, Stop: 3560, Start Num: 36
Candidate Starts for Kari_3:
(Start: 36 @2106 has 52 MA's), (54, 2148), (81, 2253), (83, 2283), (95, 2355), (145, 2496), (178, 2652), (179, 2655), (180, 2658), (181, 2661), (185, 2676), (190, 2706), (194, 2724), (196, 2736), (225, 2889), (256, 3036), (267, 3105), (270, 3123), (273, 3132), (291, 3234), (296, 3279), (298, 3285), (301, 3303), (385, 3543),

Gene: Kharcho_84 Start: 49439, Stop: 51106, Start Num: 52

Candidate Starts for Kharcho_84:
(Start: 52 @49439 has 2 MA's), (54, 49448), (69, 49493), (81, 49553), (106, 49700), (124, 49742), (126, 49745), (168, 49928), (188, 49970), (203, 50060), (240, 50279), (257, 50363), (265, 50405), (270, 50447), (271, 50450), (285, 50531), (288, 50546), (299, 50615), (319, 50723), (351, 50807),

Gene: Kihatsu_8 Start: 4011, Stop: 5291, Start Num: 46
Candidate Starts for Kihatsu_8:
(Start: 46 @4011 has 31 MA's), (81, 4131), (95, 4233), (131, 4332), (138, 4350), (145, 4371), (153, 4407), (166, 4482), (167, 4485), (172, 4506), (185, 4524), (191, 4551), (192, 4557), (211, 4662), (212, 4677), (214, 4689), (217, 4719), (246, 4851), (258, 4917),

Gene: Kiko_3 Start: 2032, Stop: 3447, Start Num: 30
Candidate Starts for Kiko_3:
(Start: 30 @2032 has 25 MA's), (64, 2110), (79, 2167), (81, 2179), (83, 2209), (110, 2338), (146, 2434), (167, 2536), (188, 2602), (192, 2623), (206, 2704), (207, 2707), (212, 2743), (213, 2749), (214, 2755), (234, 2839), (244, 2881), (256, 2944), (270, 3028), (273, 3037), (291, 3139), (348, 3352), (385, 3433),

Gene: KilKor_3 Start: 2093, Stop: 3547, Start Num: 36
Candidate Starts for KilKor_3:
(Start: 36 @2093 has 52 MA's), (54, 2135), (81, 2240), (83, 2270), (95, 2342), (145, 2483), (178, 2639), (179, 2642), (180, 2645), (181, 2648), (185, 2663), (190, 2693), (194, 2711), (196, 2723), (225, 2876), (256, 3023), (267, 3092), (270, 3110), (273, 3119), (291, 3221), (296, 3266), (298, 3272), (301, 3290), (385, 3530),

Gene: Kinbote_6 Start: 3506, Stop: 4915, Start Num: 38
Candidate Starts for Kinbote_6:
(Start: 38 @3506 has 42 MA's), (49, 3536), (54, 3554), (60, 3569), (74, 3617), (79, 3641), (81, 3653), (82, 3674), (98, 3767), (101, 3782), (102, 3785), (108, 3809), (140, 3881), (145, 3899), (157, 3953), (158, 3962), (182, 4073), (188, 4103), (203, 4193), (207, 4208), (212, 4244), (225, 4292), (227, 4301), (229, 4310), (232, 4322), (238, 4352), (245, 4379), (246, 4385), (257, 4445), (259, 4454), (266, 4499), (273, 4535), (286, 4613), (289, 4631), (290, 4634), (295, 4667), (298, 4688), (301, 4706), (328, 4811), (373, 4898), (374, 4901),

Gene: King2_3 Start: 1982, Stop: 3427, Start Num: 30
Candidate Starts for King2_3:
(Start: 30 @1982 has 25 MA's), (Start: 32 @1985 has 7 MA's), (79, 2132), (81, 2144), (90, 2201), (93, 2234), (96, 2249), (129, 2360), (135, 2375), (153, 2447), (161, 2489), (164, 2504), (191, 2600), (207, 2690), (212, 2726), (229, 2786), (245, 2855), (252, 2891), (261, 2936), (264, 2948), (273, 3011), (289, 3107), (291, 3113), (310, 3233), (323, 3284), (346, 3323), (357, 3344), (374, 3377), (376, 3383), (377, 3386),

Gene: Klevey_3 Start: 1907, Stop: 3382, Start Num: 32
Candidate Starts for Klevey_3:
(Start: 32 @1907 has 7 MA's), (65, 1994), (81, 2060), (135, 2291), (159, 2393), (190, 2513), (208, 2612), (209, 2621), (212, 2642), (256, 2831), (261, 2852), (301, 3098), (391, 3374),

Gene: Kovu_17 Start: 10803, Stop: 12257, Start Num: 47
Candidate Starts for Kovu_17:
(Start: 47 @10803 has 2 MA's), (54, 10827), (69, 10872), (81, 10932), (89, 10986), (101, 11058), (106, 11079), (128, 11127), (164, 11274), (166, 11292), (168, 11301), (170, 11310), (172, 11319), (184, 11331), (187, 11337), (222, 11547), (233, 11601), (257, 11736), (270, 11820), (271, 11823), (285, 11904), (299, 11988), (301, 12003), (318, 12087),

Gene: Ksquared_3 Start: 2106, Stop: 3560, Start Num: 36
Candidate Starts for Ksquared_3:
(Start: 36 @2106 has 52 MA's), (54, 2148), (81, 2253), (83, 2283), (95, 2355), (145, 2496), (178, 2652), (179, 2655), (180, 2658), (181, 2661), (185, 2676), (190, 2706), (194, 2724), (196, 2736), (225, 2889), (256, 3036), (267, 3105), (270, 3123), (273, 3132), (291, 3234), (296, 3279), (298, 3285), (301, 3303), (385, 3543),

Gene: Lamberg_3 Start: 1906, Stop: 3252, Start Num: 46
Candidate Starts for Lamberg_3:
(Start: 44 @1903 has 16 MA's), (Start: 46 @1906 has 31 MA's), (79, 2017), (81, 2029), (85, 2071), (86, 2074), (89, 2083), (96, 2134), (144, 2272), (146, 2287), (159, 2341), (208, 2554), (212, 2584), (214, 2596), (225, 2632), (258, 2791), (273, 2875), (277, 2905), (291, 2977), (296, 3022), (307, 3079),

Gene: Langerak_3 Start: 2106, Stop: 3569, Start Num: 36
Candidate Starts for Langerak_3:
(Start: 36 @2106 has 52 MA's), (54, 2148), (62, 2178), (81, 2253), (83, 2283), (145, 2496), (168, 2613), (178, 2652), (179, 2655), (180, 2658), (181, 2661), (185, 2676), (190, 2706), (194, 2724), (196, 2736), (213, 2841), (225, 2889), (256, 3036), (262, 3063), (267, 3105), (270, 3123), (273, 3132), (282, 3192), (291, 3234), (296, 3279), (298, 3285), (301, 3303),

Gene: Laroye_16 Start: 11170, Stop: 12612, Start Num: 51
Candidate Starts for Laroye_16:
(Start: 51 @11170 has 7 MA's), (54, 11182), (81, 11287), (106, 11434), (122, 11470), (168, 11656), (170, 11665), (172, 11674), (214, 11851), (233, 11956), (257, 12091), (265, 12133), (271, 12178), (273, 12184), (285, 12259), (291, 12286), (292, 12298), (299, 12343), (305, 12379), (312, 12424), (318, 12442), (323, 12472), (359, 12547), (368, 12571),

Gene: LazerLemon_6 Start: 2567, Stop: 4063, Start Num: 43
Candidate Starts for LazerLemon_6:
(Start: 43 @2567 has 12 MA's), (58, 2615), (72, 2663), (107, 2840), (112, 2870), (120, 2891), (129, 2909), (165, 3065), (184, 3125), (191, 3152), (204, 3233), (215, 3290), (234, 3353), (239, 3374), (252, 3428), (256, 3452), (270, 3548), (279, 3602), (282, 3617), (283, 3620), (293, 3686), (306, 3752), (308, 3767), (312, 3791), (319, 3818), (333, 3857), (395, 3992),

Gene: Lederberg_3 Start: 1970, Stop: 3301, Start Num: 40
Candidate Starts for Lederberg_3:
(Start: 40 @1970 has 8 MA's), (73, 2063), (81, 2108), (85, 2147), (115, 2270), (133, 2315), (138, 2327), (144, 2345), (147, 2363), (151, 2369), (159, 2414), (166, 2459), (178, 2498), (202, 2627), (212, 2681), (213, 2687), (214, 2693), (229, 2747), (236, 2783), (246, 2822), (248, 2834), (255, 2873), (282, 3032), (292, 3086), (294, 3101), (309, 3188),

Gene: LeeroyJ_3 Start: 1978, Stop: 3444, Start Num: 30
Candidate Starts for LeeroyJ_3:
(Start: 30 @1978 has 25 MA's), (79, 2125), (81, 2137), (90, 2194), (96, 2242), (127, 2350), (135, 2368), (172, 2542), (191, 2593), (192, 2599), (212, 2719), (215, 2734), (219, 2755), (242, 2839), (261, 2929), (279, 3049), (291, 3106), (292, 3118), (307, 3208), (316, 3250), (376, 3397), (377, 3400), (390, 3439),

Gene: Lenoxika_7 Start: 3673, Stop: 4962, Start Num: 46
Candidate Starts for Lenoxika_7:
(Start: 46 @3673 has 31 MA's), (77, 3775), (81, 3793), (85, 3835), (115, 3955), (131, 3994), (138, 4012), (145, 4033), (146, 4045), (185, 4186), (191, 4213), (192, 4219), (206, 4300), (211, 4324), (212, 4339), (214, 4351), (217, 4381), (246, 4513), (274, 4672), (279, 4708), (282, 4723), (326, 4951),

Gene: LiSara_16 Start: 11225, Stop: 12667, Start Num: 51
Candidate Starts for LiSara_16:
(Start: 51 @11225 has 7 MA's), (54, 11237), (81, 11342), (106, 11489), (122, 11525), (168, 11711), (170, 11720), (172, 11729), (214, 11906), (233, 12011), (257, 12146), (265, 12188), (271, 12233), (273, 12239), (285, 12314), (291, 12341), (292, 12353), (299, 12398), (305, 12434), (312, 12479), (318, 12497), (323, 12527), (359, 12602), (368, 12626),

Gene: LilHazelnut_6 Start: 3506, Stop: 4915, Start Num: 38
Candidate Starts for LilHazelnut_6:
(Start: 38 @3506 has 42 MA's), (49, 3536), (54, 3554), (60, 3569), (74, 3617), (79, 3641), (81, 3653), (82, 3674), (98, 3767), (101, 3782), (102, 3785), (108, 3809), (140, 3881), (145, 3899), (157, 3953), (158, 3962), (182, 4073), (188, 4103), (203, 4193), (207, 4208), (212, 4244), (225, 4292), (227, 4301), (229, 4310), (232, 4322), (238, 4352), (245, 4379), (246, 4385), (257, 4445), (259, 4454), (266, 4499), (273, 4535), (286, 4613), (289, 4631), (290, 4634), (295, 4667), (301, 4706), (328, 4811), (373, 4898), (374, 4901),

Gene: Lilmac1015_3 Start: 1907, Stop: 3382, Start Num: 32
Candidate Starts for Lilmac1015_3:
(Start: 32 @1907 has 7 MA's), (81, 2060), (135, 2291), (159, 2393), (161, 2405), (208, 2612), (209, 2621), (212, 2642), (256, 2831), (261, 2852), (268, 2906), (301, 3098), (391, 3374),

Gene: Linus_4 Start: 2810, Stop: 4234, Start Num: 27
Candidate Starts for Linus_4:
(Start: 27 @2810 has 32 MA's), (78, 2945), (81, 2960), (85, 3002), (95, 3062), (97, 3071), (116, 3146), (135, 3191), (143, 3215), (153, 3260), (155, 3263), (157, 3269), (161, 3302), (170, 3353), (174, 3365), (188, 3401), (191, 3416), (198, 3461), (205, 3500), (212, 3542), (213, 3548), (215, 3557), (218, 3575), (237, 3647), (240, 3662), (246, 3683), (249, 3698), (254, 3722), (261, 3758), (262, 3764), (264, 3770), (268, 3812), (280, 3881), (282, 3893), (295, 3965), (299, 3989), (335, 4133), (348, 4163), (353, 4172), (358, 4184),

Gene: LordFarquaad_3 Start: 1906, Stop: 3252, Start Num: 46
Candidate Starts for LordFarquaad_3:
(Start: 44 @1903 has 16 MA's), (Start: 46 @1906 has 31 MA's), (79, 2017), (81, 2029), (83, 2059), (85, 2071), (86, 2074), (89, 2083), (96, 2134), (144, 2272), (146, 2287), (159, 2341), (208, 2554), (212, 2584), (214, 2596), (225, 2632), (258, 2791), (270, 2866), (277, 2905), (291, 2977), (296, 3022), (307, 3079), (350, 3214),

Gene: Luke_6 Start: 3506, Stop: 4915, Start Num: 38
Candidate Starts for Luke_6:
(Start: 38 @3506 has 42 MA's), (49, 3536), (54, 3554), (60, 3569), (74, 3617), (79, 3641), (81, 3653), (82, 3674), (98, 3767), (101, 3782), (102, 3785), (108, 3809), (140, 3881), (145, 3899), (157, 3953), (158, 3962), (182, 4073), (188, 4103), (203, 4193), (207, 4208), (212, 4244), (225, 4292), (227, 4301), (229, 4310), (232, 4322), (238, 4352), (245, 4379), (246, 4385), (257, 4445), (259, 4454), (266, 4499), (273, 4535), (286, 4613), (289, 4631), (290, 4634), (295, 4667), (298, 4688), (301, 4706), (328, 4811), (373, 4898), (374, 4901),

Gene: Lukepolites_3 Start: 1993, Stop: 3504, Start Num: 18
Candidate Starts for Lukepolites_3:
(11, 1747), (18, 1993), (23, 2002), (79, 2167), (81, 2179), (92, 2254), (96, 2284), (188, 2620), (190, 2632), (207, 2725), (212, 2761), (219, 2797), (238, 2863), (261, 2971), (262, 2977), (282, 3106), (321, 3325), (349, 3388), (355, 3400), (377, 3460), (390, 3499),

Gene: Luna22_6 Start: 3506, Stop: 4915, Start Num: 38

Candidate Starts for Luna22_6:
(Start: 38 @3506 has 42 MA's), (49, 3536), (54, 3554), (60, 3569), (74, 3617), (79, 3641), (81, 3653), (82, 3674), (98, 3767), (101, 3782), (102, 3785), (108, 3809), (140, 3881), (145, 3899), (157, 3953), (158, 3962), (182, 4073), (188, 4103), (203, 4193), (207, 4208), (212, 4244), (225, 4292), (227, 4301), (229, 4310), (232, 4322), (238, 4352), (245, 4379), (246, 4385), (257, 4445), (259, 4454), (266, 4499), (273, 4535), (286, 4613), (289, 4631), (290, 4634), (295, 4667), (298, 4688), (301, 4706), (328, 4811), (373, 4898), (374, 4901),

Gene: Lymara_4 Start: 2813, Stop: 4231, Start Num: 27
Candidate Starts for Lymara_4:
(Start: 27 @2813 has 32 MA's), (78, 2948), (81, 2963), (85, 3005), (90, 3020), (95, 3065), (97, 3074), (100, 3089), (135, 3194), (143, 3218), (153, 3263), (157, 3272), (161, 3305), (164, 3320), (170, 3356), (174, 3368), (190, 3416), (191, 3419), (198, 3464), (199, 3467), (205, 3503), (211, 3530), (212, 3545), (213, 3551), (215, 3560), (218, 3578), (226, 3599), (249, 3701), (254, 3725), (261, 3761), (262, 3767), (264, 3773), (268, 3815), (282, 3896), (295, 3968), (299, 3992), (309, 4052), (331, 4121), (348, 4160), (353, 4169), (358, 4181), (362, 4193),

Gene: Lysidious_3 Start: 1940, Stop: 3316, Start Num: 29
Candidate Starts for Lysidious_3:
(Start: 29 @1940 has 50 MA's), (Start: 41 @1955 has 1 MA's), (42, 1958), (54, 1997), (69, 2045), (77, 2084), (81, 2102), (82, 2123), (98, 2216), (100, 2228), (102, 2234), (145, 2345), (146, 2357), (167, 2456), (179, 2495), (190, 2540), (194, 2558), (196, 2570), (197, 2576), (209, 2648), (212, 2669), (225, 2717), (229, 2735), (231, 2741), (255, 2861), (273, 2960), (279, 3005), (291, 3062), (298, 3113), (307, 3164), (325, 3230), (368, 3308),

Gene: MagicMan_3 Start: 2187, Stop: 3596, Start Num: 28
Candidate Starts for MagicMan_3:
(1, 846), (2, 1179), (3, 1374), (4, 1470), (5, 1488), (6, 1623), (7, 1680), (8, 1683), (9, 1731), (10, 1860), (12, 1977), (14, 2124), (Start: 28 @2187 has 4 MA's), (79, 2334), (81, 2346), (84, 2379), (89, 2400), (138, 2601), (146, 2634), (148, 2643), (164, 2724), (169, 2754), (198, 2877), (212, 2958), (267, 3216), (270, 3234), (280, 3291), (291, 3345), (296, 3390), (298, 3396), (304, 3429), (317, 3489), (344, 3537),

Gene: Magritte_13 Start: 8927, Stop: 10672, Start Num: 26
Candidate Starts for Magritte_13:
(Start: 26 @8927 has 1 MA's), (56, 9005), (58, 9011), (71, 9056), (76, 9074), (80, 9098), (85, 9149), (88, 9158), (111, 9278), (120, 9308), (130, 9332), (163, 9470), (209, 9674), (212, 9695), (216, 9716), (238, 9794), (242, 9815), (252, 9857), (256, 9881), (269, 9977), (270, 9983), (272, 9989), (275, 10004), (311, 10226), (324, 10283), (341, 10319), (369, 10391), (378, 10418), (392, 10469), (404, 10610), (407, 10631),

Gene: Majeke_3 Start: 2106, Stop: 3569, Start Num: 36
Candidate Starts for Majeke_3:
(Start: 36 @2106 has 52 MA's), (54, 2148), (62, 2178), (81, 2253), (83, 2283), (145, 2496), (168, 2613), (178, 2652), (179, 2655), (180, 2658), (181, 2661), (185, 2676), (190, 2706), (194, 2724), (196, 2736), (213, 2841), (225, 2889), (256, 3036), (262, 3063), (267, 3105), (270, 3123), (273, 3132), (282, 3192), (291, 3234), (296, 3279), (298, 3285), (301, 3303),

Gene: MakCheese_3 Start: 2053, Stop: 3438, Start Num: 42
Candidate Starts for MakCheese_3:
(Start: 29 @2032 has 50 MA's), (42, 2053), (54, 2092), (55, 2095), (69, 2131), (77, 2170), (81, 2188), (82, 2209), (84, 2221), (103, 2326), (114, 2353), (132, 2395), (145, 2431), (176, 2584), (177, 2587), (180, 2593), (191, 2644), (194, 2659), (206, 2731), (209, 2749), (212, 2770), (213, 2776), (229, 2836), (242, 2896), (246, 2911), (255, 2962), (267, 3031), (269, 3043), (284, 3124), (291, 3160), (329, 3328),

Gene: Malachai_3 Start: 1940, Stop: 3316, Start Num: 29
Candidate Starts for Malachai_3:
(Start: 29 @1940 has 50 MA's), (Start: 41 @1955 has 1 MA's), (42, 1958), (54, 1997), (69, 2045), (77, 2084), (81, 2102), (82, 2123), (98, 2216), (100, 2228), (102, 2234), (145, 2345), (146, 2357), (167, 2456), (179, 2495), (190, 2540), (194, 2558), (196, 2570), (197, 2576), (206, 2630), (209, 2648), (212, 2669), (229, 2735), (231, 2741), (255, 2861), (273, 2960), (291, 3062), (298, 3113), (307, 3164), (368, 3308),

Gene: Malibo_3 Start: 2034, Stop: 3443, Start Num: 30
Candidate Starts for Malibo_3:
(Start: 24 @2022 has 26 MA's), (Start: 29 @2031 has 50 MA's), (Start: 30 @2034 has 25 MA's), (42, 2052), (55, 2094), (69, 2130), (81, 2187), (82, 2208), (83, 2217), (102, 2319), (103, 2325), (132, 2394), (145, 2430), (180, 2592), (194, 2658), (206, 2730), (209, 2748), (212, 2769), (213, 2775), (229, 2835), (246, 2910), (255, 2961), (267, 3030), (269, 3042), (273, 3057), (279, 3102), (284, 3123), (290, 3156), (291, 3159), (300, 3216), (301, 3228), (322, 3318), (329, 3333),

Gene: Malithi_3 Start: 2106, Stop: 3560, Start Num: 36
Candidate Starts for Malithi_3:
(Start: 36 @2106 has 52 MA's), (54, 2148), (81, 2253), (83, 2283), (95, 2355), (145, 2496), (178, 2652), (179, 2655), (180, 2658), (181, 2661), (185, 2676), (190, 2706), (194, 2724), (196, 2736), (225, 2889), (256, 3036), (267, 3105), (270, 3123), (273, 3132), (291, 3234), (296, 3279), (298, 3285), (301, 3303), (385, 3543),

Gene: Mangethe_3 Start: 2106, Stop: 3569, Start Num: 36
Candidate Starts for Mangethe_3:
(Start: 36 @2106 has 52 MA's), (54, 2148), (62, 2178), (81, 2253), (83, 2283), (145, 2496), (168, 2613), (178, 2652), (179, 2655), (180, 2658), (181, 2661), (185, 2676), (190, 2706), (194, 2724), (196, 2736), (213, 2841), (225, 2889), (256, 3036), (262, 3063), (267, 3105), (270, 3123), (273, 3132), (282, 3192), (291, 3234), (296, 3279), (298, 3285), (301, 3303),

Gene: Marky_7 Start: 2610, Stop: 4106, Start Num: 43
Candidate Starts for Marky_7:
(Start: 43 @2610 has 12 MA's), (54, 2646), (112, 2913), (120, 2934), (146, 3009), (169, 3129), (171, 3141), (179, 3150), (184, 3168), (191, 3195), (204, 3276), (214, 3330), (234, 3396), (241, 3429), (251, 3465), (252, 3471), (256, 3495), (258, 3507), (282, 3660), (283, 3663), (293, 3729), (306, 3795), (308, 3810), (315, 3840), (319, 3861), (333, 3900), (335, 3906), (397, 4053),

Gene: Martha_3 Start: 1970, Stop: 3445, Start Num: 24
Candidate Starts for Martha_3:
(Start: 24 @1970 has 26 MA's), (Start: 30 @1982 has 25 MA's), (79, 2132), (81, 2144), (96, 2249), (127, 2357), (135, 2375), (141, 2390), (153, 2447), (171, 2546), (191, 2600), (192, 2606), (212, 2726), (213, 2732), (215, 2741), (219, 2762), (242, 2846), (252, 2891), (261, 2936), (277, 3041), (291, 3113), (292, 3125), (307, 3215), (361, 3368), (376, 3404), (377, 3407),

Gene: Matteo_3 Start: 1906, Stop: 3252, Start Num: 46
Candidate Starts for Matteo_3:
(Start: 44 @1903 has 16 MA's), (Start: 46 @1906 has 31 MA's), (79, 2017), (81, 2029), (83, 2059), (85, 2071), (86, 2074), (89, 2083), (96, 2134), (144, 2272), (146, 2287), (159, 2341), (208, 2554), (212, 2584), (214, 2596), (225, 2632), (258, 2791), (270, 2866), (277, 2905), (291, 2977), (296, 3022), (307, 3079), (350, 3214),

Gene: Mbo4_3 Start: 1966, Stop: 3501, Start Num: 22

Candidate Starts for Mbo4_3:
(22, 1966), (Start: 36 @1996 has 52 MA's), (60, 2050), (81, 2128), (83, 2158), (87, 2176), (95, 2230), (102, 2260), (114, 2296), (128, 2326), (137, 2350), (163, 2458), (169, 2494), (194, 2593), (197, 2611), (206, 2665), (207, 2668), (212, 2704), (229, 2770), (246, 2845), (291, 3094), (324, 3259), (344, 3292), (388, 3400), (396, 3454), (400, 3472),

Gene: Megiddo_3 Start: 2093, Stop: 3547, Start Num: 36
Candidate Starts for Megiddo_3:
(Start: 36 @2093 has 52 MA's), (54, 2135), (81, 2240), (83, 2270), (95, 2342), (145, 2483), (178, 2639), (179, 2642), (180, 2645), (181, 2648), (185, 2663), (190, 2693), (194, 2711), (196, 2723), (225, 2876), (256, 3023), (267, 3092), (270, 3110), (273, 3119), (291, 3221), (296, 3266), (298, 3272), (301, 3290), (385, 3530),

Gene: Melba_3 Start: 1940, Stop: 3316, Start Num: 29
Candidate Starts for Melba_3:
(Start: 29 @1940 has 50 MA's), (Start: 41 @1955 has 1 MA's), (42, 1958), (54, 1997), (69, 2045), (77, 2084), (81, 2102), (82, 2123), (98, 2216), (100, 2228), (102, 2234), (145, 2345), (146, 2357), (167, 2456), (179, 2495), (190, 2540), (194, 2558), (196, 2570), (197, 2576), (209, 2648), (212, 2669), (225, 2717), (229, 2735), (231, 2741), (255, 2861), (273, 2960), (279, 3005), (291, 3062), (296, 3107), (298, 3113), (307, 3164), (368, 3308),

Gene: Mellie_3 Start: 1940, Stop: 3316, Start Num: 29
Candidate Starts for Mellie_3:
(Start: 29 @1940 has 50 MA's), (Start: 41 @1955 has 1 MA's), (42, 1958), (54, 1997), (69, 2045), (77, 2084), (81, 2102), (82, 2123), (98, 2216), (100, 2228), (102, 2234), (145, 2345), (146, 2357), (167, 2456), (179, 2495), (190, 2540), (194, 2558), (196, 2570), (197, 2576), (209, 2648), (212, 2669), (225, 2717), (229, 2735), (231, 2741), (255, 2861), (273, 2960), (279, 3005), (291, 3062), (298, 3113), (307, 3164), (325, 3230), (368, 3308),

Gene: MichaelScott_4 Start: 2412, Stop: 3749, Start Num: 38
Candidate Starts for MichaelScott_4:
(Start: 38 @2412 has 42 MA's), (77, 2529), (79, 2535), (81, 2547), (83, 2577), (85, 2589), (86, 2592), (89, 2601), (133, 2757), (136, 2763), (144, 2787), (146, 2802), (164, 2883), (184, 2943), (185, 2946), (188, 2958), (212, 3099), (225, 3147), (238, 3207), (291, 3492), (296, 3537), (307, 3594),

Gene: Microdon_7 Start: 2673, Stop: 4208, Start Num: 43
Candidate Starts for Microdon_7:
(Start: 43 @2673 has 12 MA's), (58, 2721), (72, 2769), (107, 2946), (112, 2976), (120, 2997), (125, 3009), (129, 3015), (165, 3171), (171, 3204), (184, 3231), (191, 3258), (194, 3273), (204, 3339), (215, 3396), (234, 3459), (239, 3480), (252, 3534), (256, 3558), (258, 3570), (282, 3723), (293, 3792), (302, 3840), (308, 3873), (312, 3897), (319, 3924), (333, 3963), (361, 4032), (395, 4140), (399, 4158), (401, 4173),

Gene: MillySue_7 Start: 3648, Stop: 4928, Start Num: 46
Candidate Starts for MillySue_7:
(Start: 46 @3648 has 31 MA's), (81, 3768), (95, 3870), (104, 3909), (131, 3969), (136, 3981), (138, 3987), (145, 4008), (153, 4044), (167, 4122), (172, 4143), (185, 4161), (191, 4188), (206, 4275), (211, 4299), (212, 4314), (214, 4326), (258, 4554), (264, 4575),

Gene: MintFen_3 Start: 1940, Stop: 3316, Start Num: 29
Candidate Starts for MintFen_3:
(Start: 29 @1940 has 50 MA's), (Start: 41 @1955 has 1 MA's), (42, 1958), (54, 1997), (69, 2045), (77, 2084), (81, 2102), (82, 2123), (98, 2216), (100, 2228), (102, 2234), (145, 2345), (146, 2357), (167,

2456), (179, 2495), (190, 2540), (194, 2558), (196, 2570), (197, 2576), (209, 2648), (212, 2669), (225, 2717), (229, 2735), (231, 2741), (255, 2861), (273, 2960), (279, 3005), (291, 3062), (296, 3107), (298, 3113), (307, 3164), (368, 3308),

Gene: MissRona_3 Start: 1974, Stop: 3338, Start Num: 29
Candidate Starts for MissRona_3:
(Start: 29 @1974 has 50 MA's), (68, 2073), (77, 2115), (81, 2133), (82, 2154), (87, 2181), (95, 2235), (128, 2328), (145, 2376), (146, 2388), (167, 2493), (179, 2532), (180, 2535), (190, 2577), (191, 2580), (196, 2607), (209, 2685), (212, 2706), (214, 2718), (229, 2772), (242, 2832), (255, 2898), (267, 2970), (273, 2997), (291, 3099), (296, 3144), (298, 3150), (304, 3183), (305, 3189), (342, 3285), (347, 3297),

Gene: Mocha12_3 Start: 1903, Stop: 3252, Start Num: 44
Candidate Starts for Mocha12_3:
(Start: 44 @1903 has 16 MA's), (Start: 46 @1906 has 31 MA's), (77, 2011), (79, 2017), (81, 2029), (85, 2071), (86, 2074), (89, 2083), (96, 2134), (144, 2272), (146, 2287), (159, 2341), (208, 2554), (212, 2584), (214, 2596), (225, 2632), (258, 2791), (277, 2905), (291, 2977), (296, 3022), (307, 3079),

Gene: Moonflower_3 Start: 2210, Stop: 3580, Start Num: 31
Candidate Starts for Moonflower_3:
(Start: 31 @2210 has 6 MA's), (64, 2279), (75, 2315), (79, 2336), (81, 2348), (82, 2369), (102, 2480), (138, 2570), (146, 2603), (190, 2783), (207, 2876), (212, 2912), (213, 2918), (242, 3044), (256, 3113), (282, 3266), (291, 3308), (298, 3353), (356, 3500),

Gene: Mordred_4 Start: 2813, Stop: 4237, Start Num: 27
Candidate Starts for Mordred_4:
(Start: 27 @2813 has 32 MA's), (78, 2948), (81, 2963), (85, 3005), (95, 3065), (97, 3074), (116, 3149), (135, 3194), (143, 3218), (153, 3263), (155, 3266), (157, 3272), (161, 3305), (170, 3356), (174, 3368), (188, 3404), (191, 3419), (198, 3464), (205, 3503), (212, 3545), (213, 3551), (215, 3560), (237, 3650), (240, 3665), (246, 3686), (249, 3701), (254, 3725), (261, 3761), (262, 3767), (264, 3773), (268, 3815), (280, 3884), (282, 3896), (295, 3968), (299, 3992), (335, 4136), (348, 4166), (353, 4175), (358, 4187),

Gene: MoyaNatalis_4 Start: 2813, Stop: 4237, Start Num: 27
Candidate Starts for MoyaNatalis_4:
(Start: 27 @2813 has 32 MA's), (78, 2948), (81, 2963), (85, 3005), (95, 3065), (97, 3074), (116, 3149), (135, 3194), (143, 3218), (153, 3263), (155, 3266), (157, 3272), (161, 3305), (170, 3356), (174, 3368), (188, 3404), (191, 3419), (198, 3464), (205, 3503), (212, 3545), (213, 3551), (215, 3560), (218, 3578), (237, 3650), (240, 3665), (246, 3686), (249, 3701), (254, 3725), (261, 3761), (262, 3767), (264, 3773), (268, 3815), (280, 3884), (282, 3896), (295, 3968), (299, 3992), (335, 4136), (348, 4166), (353, 4175), (358, 4187),

Gene: Mulch_7 Start: 3471, Stop: 4898, Start Num: 24
Candidate Starts for Mulch_7:
(Start: 24 @3471 has 26 MA's), (Start: 29 @3480 has 50 MA's), (55, 3543), (77, 3618), (81, 3636), (95, 3738), (100, 3762), (132, 3843), (145, 3879), (153, 3915), (155, 3918), (180, 4041), (189, 4086), (194, 4107), (206, 4179), (212, 4218), (213, 4224), (227, 4275), (229, 4284), (234, 4308), (246, 4359), (255, 4410), (267, 4482), (273, 4509), (277, 4539), (279, 4554), (291, 4611), (297, 4659), (300, 4668), (307, 4713), (309, 4725), (322, 4776), (330, 4791), (340, 4797), (375, 4863),

Gene: Murp_3 Start: 1943, Stop: 3304, Start Num: 29
Candidate Starts for Murp_3:
(Start: 29 @1943 has 50 MA's), (Start: 41 @1958 has 1 MA's), (42, 1961), (54, 2000), (69, 2048), (72, 2060), (77, 2087), (81, 2105), (82, 2126), (95, 2207), (98, 2219), (100, 2231), (145, 2348), (146, 2360), (167, 2459), (179, 2498), (190, 2543), (194, 2561), (196, 2573), (197, 2579), (202, 2618), (209, 2651),

(212, 2672), (214, 2684), (229, 2738), (242, 2798), (250, 2834), (255, 2864), (267, 2936), (273, 2963), (291, 3065), (298, 3116), (302, 3137), (307, 3167), (325, 3221), (366, 3293), (368, 3296),

Gene: Music_5 Start: 3491, Stop: 5080, Start Num: 27
Candidate Starts for Music_5:
(Start: 27 @3491 has 32 MA's), (81, 3638), (93, 3728), (96, 3743), (135, 3869), (190, 4085), (198, 4133), (212, 4214), (238, 4316), (246, 4349), (253, 4382), (261, 4424), (273, 4499), (381, 4886), (403, 5036), (406, 5072),

Gene: NaLuna_3 Start: 2113, Stop: 3561, Start Num: 29
Candidate Starts for NaLuna_3:
(Start: 29 @2113 has 50 MA's), (Start: 33 @2122 has 7 MA's), (59, 2188), (79, 2269), (81, 2281), (84, 2314), (95, 2383), (100, 2407), (138, 2503), (192, 2725), (198, 2764), (206, 2806), (207, 2809), (212, 2845), (246, 2992), (256, 3046), (273, 3139), (279, 3184), (284, 3205), (291, 3241), (298, 3292),

Gene: Nadeem_7 Start: 3471, Stop: 4898, Start Num: 24
Candidate Starts for Nadeem_7:
(Start: 24 @3471 has 26 MA's), (Start: 29 @3480 has 50 MA's), (55, 3543), (77, 3618), (81, 3636), (95, 3738), (100, 3762), (132, 3843), (145, 3879), (153, 3915), (155, 3918), (180, 4041), (189, 4086), (194, 4107), (206, 4179), (212, 4218), (213, 4224), (227, 4275), (229, 4284), (234, 4308), (246, 4359), (255, 4410), (267, 4482), (273, 4509), (277, 4539), (279, 4554), (291, 4611), (297, 4659), (300, 4668), (307, 4713), (309, 4725), (322, 4776), (330, 4791), (340, 4797), (375, 4863),

Gene: NancyRae_7 Start: 3471, Stop: 4898, Start Num: 24
Candidate Starts for NancyRae_7:
(Start: 24 @3471 has 26 MA's), (Start: 29 @3480 has 50 MA's), (54, 3540), (55, 3543), (77, 3618), (81, 3636), (95, 3738), (100, 3762), (132, 3843), (145, 3879), (153, 3915), (155, 3918), (180, 4041), (189, 4086), (194, 4107), (206, 4179), (212, 4218), (213, 4224), (227, 4275), (229, 4284), (234, 4308), (246, 4359), (255, 4410), (267, 4482), (273, 4509), (277, 4539), (279, 4554), (291, 4611), (297, 4659), (300, 4668), (307, 4713), (309, 4725), (322, 4776), (330, 4791), (340, 4797), (375, 4863),

Gene: Nandita_7 Start: 3674, Stop: 4963, Start Num: 46
Candidate Starts for Nandita_7:
(Start: 46 @3674 has 31 MA's), (77, 3776), (81, 3794), (85, 3836), (115, 3956), (131, 3995), (138, 4013), (145, 4034), (146, 4046), (185, 4187), (191, 4214), (192, 4220), (206, 4301), (211, 4325), (212, 4340), (213, 4346), (214, 4352), (217, 4382), (246, 4514), (274, 4673), (279, 4709), (282, 4724), (326, 4952),

Gene: Nandito_3 Start: 1907, Stop: 3397, Start Num: 32
Candidate Starts for Nandito_3:
(Start: 32 @1907 has 7 MA's), (81, 2057), (135, 2288), (159, 2390), (161, 2402), (236, 2735), (256, 2828), (261, 2849), (301, 3095), (303, 3101), (391, 3383), (393, 3392),

Gene: NathanVaag_3 Start: 1982, Stop: 3427, Start Num: 30
Candidate Starts for NathanVaag_3:
(Start: 30 @1982 has 25 MA's), (Start: 32 @1985 has 7 MA's), (79, 2132), (81, 2144), (90, 2201), (93, 2234), (96, 2249), (108, 2300), (129, 2360), (135, 2375), (153, 2447), (164, 2504), (191, 2600), (207, 2690), (212, 2726), (229, 2786), (239, 2834), (245, 2855), (252, 2891), (261, 2936), (273, 3011), (289, 3107), (310, 3233), (323, 3284), (333, 3293), (344, 3320), (357, 3344), (376, 3383), (377, 3386),

Gene: Nazo_3 Start: 2082, Stop: 3530, Start Num: 36
Candidate Starts for Nazo_3:

(Start: 36 @2082 has 52 MA's), (54, 2130), (81, 2235), (83, 2265), (87, 2283), (94, 2334), (95, 2337), (131, 2439), (145, 2478), (178, 2634), (180, 2640), (181, 2643), (185, 2658), (190, 2688), (194, 2706), (213, 2823), (225, 2871), (228, 2883), (256, 3018), (267, 3087), (270, 3105), (273, 3114), (291, 3216), (296, 3261), (298, 3267), (301, 3285), (385, 3513),

Gene: Necropolis_3 Start: 2106, Stop: 3560, Start Num: 36
Candidate Starts for Necropolis_3:
(Start: 36 @2106 has 52 MA's), (54, 2148), (81, 2253), (83, 2283), (95, 2355), (145, 2496), (178, 2652), (179, 2655), (180, 2658), (181, 2661), (185, 2676), (190, 2706), (194, 2724), (196, 2736), (225, 2889), (256, 3036), (267, 3105), (270, 3123), (273, 3132), (291, 3234), (296, 3279), (298, 3285), (301, 3303), (385, 3543),

Gene: Nettuno_3 Start: 1906, Stop: 3252, Start Num: 46
Candidate Starts for Nettuno_3:
(Start: 44 @1903 has 16 MA's), (Start: 46 @1906 has 31 MA's), (79, 2017), (81, 2029), (85, 2071), (86, 2074), (89, 2083), (96, 2134), (144, 2272), (146, 2287), (159, 2341), (208, 2554), (212, 2584), (214, 2596), (225, 2632), (258, 2791), (273, 2875), (277, 2905), (291, 2977), (296, 3022), (307, 3079),

Gene: Nostromo_3 Start: 1951, Stop: 3579, Start Num: 27
Candidate Starts for Nostromo_3:
(15, 1906), (Start: 27 @1951 has 32 MA's), (61, 2035), (81, 2113), (93, 2203), (96, 2218), (98, 2227), (102, 2245), (129, 2329), (135, 2344), (144, 2371), (153, 2416), (159, 2446), (191, 2569), (212, 2695), (214, 2707), (238, 2797), (251, 2854), (261, 2905), (342, 3292), (371, 3352), (380, 3376), (387, 3400), (402, 3535), (405, 3574),

Gene: NovoPizza_4 Start: 3595, Stop: 4998, Start Num: 38
Candidate Starts for NovoPizza_4:
(Start: 38 @3595 has 42 MA's), (60, 3658), (79, 3733), (81, 3745), (82, 3766), (83, 3775), (95, 3847), (98, 3859), (101, 3874), (108, 3901), (145, 3991), (146, 4003), (157, 4045), (166, 4111), (170, 4129), (180, 4159), (183, 4168), (190, 4207), (202, 4282), (212, 4336), (225, 4384), (227, 4393), (229, 4402), (245, 4471), (246, 4477), (259, 4546), (266, 4591), (267, 4600), (270, 4618), (273, 4627), (290, 4726), (291, 4729), (296, 4774), (301, 4798), (305, 4819), (328, 4903), (367, 4975),

Gene: OBUpride_6 Start: 3506, Stop: 4915, Start Num: 38
Candidate Starts for OBUpride_6:
(Start: 38 @3506 has 42 MA's), (49, 3536), (54, 3554), (60, 3569), (74, 3617), (79, 3641), (81, 3653), (82, 3674), (98, 3767), (101, 3782), (102, 3785), (108, 3809), (140, 3881), (145, 3899), (157, 3953), (158, 3962), (182, 4073), (188, 4103), (203, 4193), (207, 4208), (212, 4244), (225, 4292), (227, 4301), (229, 4310), (232, 4322), (238, 4352), (245, 4379), (246, 4385), (257, 4445), (259, 4454), (266, 4499), (273, 4535), (286, 4613), (289, 4631), (290, 4634), (295, 4667), (298, 4688), (301, 4706), (328, 4811), (373, 4898), (374, 4901),

Gene: Obliviate_3 Start: 1940, Stop: 3316, Start Num: 29
Candidate Starts for Obliviate_3:
(Start: 29 @1940 has 50 MA's), (Start: 41 @1955 has 1 MA's), (42, 1958), (54, 1997), (69, 2045), (77, 2084), (81, 2102), (82, 2123), (84, 2135), (98, 2216), (100, 2228), (102, 2234), (145, 2345), (146, 2357), (167, 2456), (179, 2495), (190, 2540), (194, 2558), (196, 2570), (197, 2576), (209, 2648), (212, 2669), (229, 2735), (231, 2741), (242, 2795), (255, 2861), (273, 2960), (279, 3005), (291, 3062), (298, 3113), (307, 3164), (325, 3230), (368, 3308),

Gene: Ohgeesy_3 Start: 1906, Stop: 3216, Start Num: 29
Candidate Starts for Ohgeesy_3:

(Start: 29 @1906 has 50 MA's), (Start: 33 @1912 has 7 MA's), (42, 1924), (77, 2044), (81, 2062), (82, 2083), (96, 2167), (98, 2176), (128, 2257), (145, 2305), (146, 2317), (157, 2353), (167, 2422), (179, 2461), (191, 2509), (209, 2614), (212, 2635), (213, 2641), (229, 2701), (255, 2827), (273, 2926), (291, 3028), (298, 3079), (304, 3112),

Gene: Opie_3 Start: 2187, Stop: 3602, Start Num: 28
Candidate Starts for Opie_3:
(14, 2124), (Start: 25 @2181 has 1 MA's), (Start: 28 @2187 has 4 MA's), (81, 2346), (89, 2400), (138, 2601), (146, 2634), (148, 2643), (169, 2754), (212, 2958), (267, 3216), (270, 3234), (279, 3288), (280, 3291), (291, 3345), (296, 3390), (298, 3396), (304, 3429),

Gene: Oregano_4 Start: 2083, Stop: 3420, Start Num: 38
Candidate Starts for Oregano_4:
(Start: 38 @2083 has 42 MA's), (77, 2200), (79, 2206), (81, 2218), (83, 2248), (85, 2260), (86, 2263), (89, 2272), (133, 2428), (136, 2434), (144, 2458), (146, 2473), (164, 2554), (184, 2614), (185, 2617), (188, 2629), (212, 2770), (225, 2818), (271, 3055), (291, 3163), (296, 3208), (307, 3265),

Gene: Orkz_5 Start: 2283, Stop: 3893, Start Num: 27
Candidate Starts for Orkz_5:
(Start: 27 @2283 has 32 MA's), (65, 2364), (66, 2367), (70, 2376), (79, 2418), (81, 2430), (93, 2520), (123, 2637), (135, 2661), (141, 2676), (155, 2733), (157, 2739), (171, 2829), (190, 2877), (201, 2937), (202, 2952), (212, 3006), (219, 3042), (230, 3069), (246, 3144), (249, 3159), (251, 3168), (253, 3177), (259, 3213), (261, 3219), (266, 3258), (268, 3273), (282, 3354), (296, 3441), (300, 3453), (307, 3498), (343, 3600), (362, 3645), (379, 3693), (403, 3855),

Gene: Ottawa_84 Start: 49389, Stop: 51056, Start Num: 52
Candidate Starts for Ottawa_84:
(Start: 52 @49389 has 2 MA's), (54, 49398), (69, 49443), (81, 49503), (106, 49650), (124, 49692), (126, 49695), (168, 49878), (188, 49920), (203, 50010), (240, 50229), (257, 50313), (265, 50355), (270, 50397), (271, 50400), (285, 50481), (288, 50496), (299, 50565), (319, 50673), (351, 50757),

Gene: PCoral7_3 Start: 1950, Stop: 3317, Start Num: 29
Candidate Starts for PCoral7_3:
(Start: 29 @1950 has 50 MA's), (Start: 41 @1962 has 1 MA's), (42, 1965), (54, 2004), (69, 2052), (77, 2091), (81, 2109), (82, 2130), (100, 2235), (102, 2241), (145, 2352), (157, 2394), (167, 2463), (172, 2487), (179, 2502), (186, 2523), (190, 2547), (194, 2565), (196, 2577), (209, 2655), (225, 2724), (229, 2742), (231, 2748), (244, 2808), (245, 2811), (255, 2868), (267, 2940), (273, 2967), (291, 3069), (298, 3120), (302, 3141), (307, 3171), (309, 3183), (368, 3309),

Gene: PantheRoc_3 Start: 1912, Stop: 3216, Start Num: 33
Candidate Starts for PantheRoc_3:
(Start: 29 @1906 has 50 MA's), (Start: 33 @1912 has 7 MA's), (42, 1924), (77, 2044), (81, 2062), (82, 2083), (96, 2167), (98, 2176), (128, 2257), (145, 2305), (146, 2317), (157, 2353), (167, 2422), (179, 2461), (191, 2509), (209, 2614), (212, 2635), (213, 2641), (229, 2701), (255, 2827), (273, 2926), (291, 3028), (298, 3079), (304, 3112),

Gene: Parada_7 Start: 3471, Stop: 4898, Start Num: 24
Candidate Starts for Parada_7:
(Start: 24 @3471 has 26 MA's), (Start: 29 @3480 has 50 MA's), (55, 3543), (77, 3618), (81, 3636), (95, 3738), (100, 3762), (132, 3843), (145, 3879), (153, 3915), (155, 3918), (180, 4041), (189, 4086), (194, 4107), (206, 4179), (212, 4218), (213, 4224), (227, 4275), (229, 4284), (234, 4308), (246, 4359), (255, 4410), (267, 4482), (273, 4509), (277, 4539), (279, 4554), (291, 4611), (297, 4659), (300, 4668), (307, 4713), (309, 4725), (322, 4776), (330, 4791), (340, 4797), (375, 4863),

Gene: PatriciaStar_3 Start: 2206, Stop: 3576, Start Num: 31
Candidate Starts for PatriciaStar_3:
(Start: 31 @2206 has 6 MA's), (48, 2236), (64, 2278), (75, 2314), (81, 2347), (82, 2368), (83, 2377), (102, 2479), (174, 2731), (175, 2737), (190, 2782), (192, 2791), (207, 2875), (212, 2911), (213, 2917), (242, 3043), (256, 3112), (273, 3205), (291, 3307), (298, 3352),

Gene: PeanutPie_3 Start: 2094, Stop: 3548, Start Num: 36
Candidate Starts for PeanutPie_3:
(Start: 36 @2094 has 52 MA's), (54, 2136), (81, 2241), (83, 2271), (95, 2343), (145, 2484), (178, 2640), (179, 2643), (180, 2646), (181, 2649), (185, 2664), (190, 2694), (194, 2712), (196, 2724), (225, 2877), (256, 3024), (267, 3093), (270, 3111), (273, 3120), (291, 3222), (296, 3267), (298, 3273), (301, 3291), (385, 3531),

Gene: Petra_3 Start: 1974, Stop: 3338, Start Num: 29
Candidate Starts for Petra_3:
(Start: 29 @1974 has 50 MA's), (68, 2073), (72, 2088), (77, 2115), (81, 2133), (82, 2154), (87, 2181), (95, 2235), (128, 2328), (145, 2376), (146, 2388), (167, 2493), (179, 2532), (186, 2553), (190, 2577), (191, 2580), (209, 2685), (212, 2706), (214, 2718), (229, 2772), (242, 2832), (255, 2898), (267, 2970), (273, 2997), (291, 3099), (298, 3150), (304, 3183), (305, 3189), (342, 3285), (347, 3297),

Gene: Phalm_3 Start: 2093, Stop: 3547, Start Num: 36
Candidate Starts for Phalm_3:
(Start: 36 @2093 has 52 MA's), (54, 2135), (81, 2240), (83, 2270), (95, 2342), (145, 2483), (178, 2639), (179, 2642), (180, 2645), (181, 2648), (185, 2663), (190, 2693), (194, 2711), (196, 2723), (225, 2876), (256, 3023), (267, 3092), (270, 3110), (273, 3119), (291, 3221), (296, 3266), (298, 3272), (301, 3290), (385, 3530),

Gene: Phayonce_3 Start: 2097, Stop: 3524, Start Num: 36
Candidate Starts for Phayonce_3:
(Start: 36 @2097 has 52 MA's), (54, 2145), (81, 2250), (83, 2280), (145, 2493), (178, 2649), (180, 2655), (181, 2658), (185, 2673), (194, 2721), (196, 2733), (213, 2838), (225, 2886), (256, 3033), (267, 3102), (270, 3120), (273, 3129), (274, 3138), (284, 3195), (291, 3231), (298, 3282), (307, 3333), (338, 3417), (385, 3507),

Gene: Phegasus_3 Start: 2106, Stop: 3569, Start Num: 36
Candidate Starts for Phegasus_3:
(Start: 36 @2106 has 52 MA's), (54, 2148), (62, 2178), (81, 2253), (83, 2283), (145, 2496), (168, 2613), (178, 2652), (179, 2655), (180, 2658), (181, 2661), (185, 2676), (190, 2706), (194, 2724), (196, 2736), (213, 2841), (225, 2889), (256, 3036), (262, 3063), (267, 3105), (270, 3123), (273, 3132), (282, 3192), (291, 3234), (296, 3279), (298, 3285), (301, 3303),

Gene: Phineas_3 Start: 2094, Stop: 3548, Start Num: 36
Candidate Starts for Phineas_3:
(Start: 36 @2094 has 52 MA's), (54, 2136), (81, 2241), (83, 2271), (95, 2343), (145, 2484), (178, 2640), (179, 2643), (180, 2646), (181, 2649), (185, 2664), (190, 2694), (194, 2712), (196, 2724), (225, 2877), (256, 3024), (267, 3093), (270, 3111), (273, 3120), (291, 3222), (296, 3267), (298, 3273), (301, 3291), (385, 3531),

Gene: PhriskyACE_3 Start: 1910, Stop: 3247, Start Num: 38
Candidate Starts for PhriskyACE_3:
(Start: 38 @1910 has 42 MA's), (79, 2033), (81, 2045), (83, 2075), (85, 2087), (86, 2090), (133, 2255), (144, 2285), (146, 2300), (185, 2444), (188, 2456), (208, 2567), (212, 2597), (214, 2609), (225, 2645),

(238, 2705), (258, 2804), (266, 2852), (307, 3092),

Gene: PhrostedPhlake_3 Start: 1941, Stop: 3317, Start Num: 29
Candidate Starts for PhrostedPhlake_3:
(Start: 29 @1941 has 50 MA's), (Start: 41 @1956 has 1 MA's), (42, 1959), (54, 1998), (69, 2046), (77, 2085), (81, 2103), (82, 2124), (95, 2205), (98, 2217), (100, 2229), (102, 2235), (145, 2346), (146, 2358), (167, 2457), (179, 2496), (190, 2541), (194, 2559), (196, 2571), (197, 2577), (209, 2649), (212, 2670), (229, 2736), (231, 2742), (255, 2862), (273, 2961), (291, 3063), (296, 3108), (298, 3114), (307, 3165),

Gene: Piccoletto_3 Start: 1982, Stop: 3427, Start Num: 30
Candidate Starts for Piccoletto_3:
(Start: 30 @1982 has 25 MA's), (Start: 32 @1985 has 7 MA's), (79, 2132), (81, 2144), (90, 2201), (93, 2234), (96, 2249), (108, 2300), (129, 2360), (135, 2375), (153, 2447), (164, 2504), (191, 2600), (207, 2690), (212, 2726), (245, 2855), (252, 2891), (261, 2936), (264, 2948), (273, 3011), (289, 3107), (291, 3113), (310, 3233), (323, 3284), (333, 3293), (346, 3323), (357, 3344), (376, 3383), (377, 3386),

Gene: Pickett_3 Start: 1906, Stop: 3252, Start Num: 46
Candidate Starts for Pickett_3:
(Start: 44 @1903 has 16 MA's), (Start: 46 @1906 has 31 MA's), (79, 2017), (81, 2029), (85, 2071), (86, 2074), (89, 2083), (96, 2134), (144, 2272), (146, 2287), (159, 2341), (208, 2554), (212, 2584), (214, 2596), (225, 2632), (258, 2791), (273, 2875), (277, 2905), (291, 2977), (296, 3022), (307, 3079),

Gene: Pimento_7 Start: 3471, Stop: 4898, Start Num: 24
Candidate Starts for Pimento_7:
(Start: 24 @3471 has 26 MA's), (Start: 29 @3480 has 50 MA's), (55, 3543), (77, 3618), (81, 3636), (95, 3738), (100, 3762), (132, 3843), (145, 3879), (153, 3915), (155, 3918), (180, 4041), (189, 4086), (194, 4107), (206, 4179), (212, 4218), (213, 4224), (229, 4284), (234, 4308), (246, 4359), (255, 4410), (267, 4482), (273, 4509), (277, 4539), (279, 4554), (291, 4611), (297, 4659), (300, 4668), (307, 4713), (309, 4725), (322, 4776), (340, 4797), (375, 4863),

Gene: Pipp_3 Start: 1939, Stop: 3315, Start Num: 29
Candidate Starts for Pipp_3:
(Start: 29 @1939 has 50 MA's), (Start: 41 @1954 has 1 MA's), (42, 1957), (54, 1996), (69, 2044), (77, 2083), (81, 2101), (82, 2122), (100, 2227), (128, 2296), (140, 2326), (145, 2344), (146, 2356), (158, 2395), (167, 2455), (179, 2494), (180, 2497), (190, 2539), (194, 2557), (196, 2569), (197, 2575), (209, 2647), (212, 2668), (225, 2716), (229, 2734), (231, 2740), (255, 2860), (273, 2959), (279, 3004), (291, 3061), (298, 3112), (302, 3133), (304, 3145), (307, 3163), (325, 3229), (368, 3307),

Gene: Pippa_3 Start: 1970, Stop: 3445, Start Num: 24
Candidate Starts for Pippa_3:
(Start: 24 @1970 has 26 MA's), (Start: 30 @1982 has 25 MA's), (79, 2132), (81, 2144), (127, 2357), (135, 2375), (190, 2597), (191, 2600), (192, 2606), (212, 2726), (213, 2732), (219, 2762), (242, 2846), (261, 2936), (277, 3041), (291, 3113), (292, 3125), (307, 3215), (361, 3368), (376, 3404), (377, 3407),

Gene: Polkaroo_3 Start: 2106, Stop: 3560, Start Num: 36
Candidate Starts for Polkaroo_3:
(Start: 36 @2106 has 52 MA's), (54, 2148), (62, 2178), (81, 2253), (83, 2283), (95, 2355), (145, 2496), (178, 2652), (179, 2655), (180, 2658), (181, 2661), (185, 2676), (190, 2706), (194, 2724), (196, 2736), (225, 2889), (256, 3036), (267, 3105), (270, 3123), (273, 3132), (291, 3234), (296, 3279), (298, 3285), (301, 3303), (385, 3543),

Gene: Popper_5 Start: 3178, Stop: 4458, Start Num: 46

Candidate Starts for Popper_5:
(Start: 46 @3178 has 31 MA's), (81, 3298), (102, 3430), (104, 3439), (131, 3499), (138, 3517), (153, 3574), (167, 3652), (191, 3718), (192, 3724), (206, 3805), (211, 3829), (212, 3844), (214, 3856), (258, 4084),

Gene: Powerball_3 Start: 1910, Stop: 3247, Start Num: 38
Candidate Starts for Powerball_3:
(Start: 38 @1910 has 42 MA's), (77, 2027), (79, 2033), (81, 2045), (83, 2075), (85, 2087), (86, 2090), (89, 2099), (103, 2183), (133, 2255), (144, 2285), (146, 2300), (185, 2444), (188, 2456), (208, 2567), (212, 2597), (213, 2603), (214, 2609), (225, 2645), (238, 2705), (246, 2738), (258, 2804), (266, 2852), (271, 2882), (291, 2990), (296, 3035), (307, 3092),

Gene: Prairie_3 Start: 1907, Stop: 3382, Start Num: 32
Candidate Starts for Prairie_3:
(Start: 32 @1907 has 7 MA's), (65, 1994), (81, 2060), (135, 2291), (159, 2393), (190, 2513), (208, 2612), (209, 2621), (212, 2642), (256, 2831), (261, 2852), (301, 3098), (391, 3374),

Gene: PrincePatrick_3 Start: 1951, Stop: 3318, Start Num: 29
Candidate Starts for PrincePatrick_3:
(Start: 29 @1951 has 50 MA's), (Start: 41 @1963 has 1 MA's), (42, 1966), (54, 2005), (69, 2053), (77, 2092), (81, 2110), (82, 2131), (98, 2224), (100, 2236), (102, 2242), (145, 2353), (157, 2395), (167, 2464), (179, 2503), (186, 2524), (190, 2548), (194, 2566), (196, 2578), (209, 2656), (225, 2725), (229, 2743), (231, 2749), (245, 2812), (255, 2869), (267, 2941), (273, 2968), (291, 3070), (298, 3121), (302, 3142), (304, 3154), (307, 3172), (309, 3184), (368, 3310),

Gene: PrincessTrina_4 Start: 2813, Stop: 4237, Start Num: 27
Candidate Starts for PrincessTrina_4:
(Start: 27 @2813 has 32 MA's), (78, 2948), (81, 2963), (85, 3005), (95, 3065), (97, 3074), (116, 3149), (135, 3194), (143, 3218), (153, 3263), (155, 3266), (157, 3272), (161, 3305), (170, 3356), (174, 3368), (188, 3404), (191, 3419), (198, 3464), (205, 3503), (212, 3545), (213, 3551), (215, 3560), (218, 3578), (237, 3650), (240, 3665), (246, 3686), (249, 3701), (254, 3725), (261, 3761), (262, 3767), (264, 3773), (268, 3815), (280, 3884), (282, 3896), (295, 3968), (299, 3992), (335, 4136), (348, 4166), (353, 4175), (358, 4187),

Gene: Purky_3 Start: 2094, Stop: 3527, Start Num: 36
Candidate Starts for Purky_3:
(Start: 36 @2094 has 52 MA's), (77, 2223), (81, 2241), (83, 2271), (145, 2484), (178, 2640), (180, 2646), (185, 2664), (190, 2694), (194, 2712), (196, 2724), (213, 2829), (225, 2877), (256, 3024), (267, 3093), (270, 3111), (273, 3120), (291, 3222), (298, 3273), (365, 3456), (385, 3510),

Gene: Pygmy_3 Start: 2094, Stop: 3548, Start Num: 36
Candidate Starts for Pygmy_3:
(Start: 36 @2094 has 52 MA's), (54, 2136), (81, 2241), (83, 2271), (95, 2343), (145, 2484), (178, 2640), (179, 2643), (180, 2646), (181, 2649), (185, 2664), (190, 2694), (194, 2712), (196, 2724), (225, 2877), (256, 3024), (267, 3093), (270, 3111), (273, 3120), (291, 3222), (296, 3267), (298, 3273), (301, 3291), (385, 3531),

Gene: QuinnAvery_7 Start: 3651, Stop: 4931, Start Num: 46
Candidate Starts for QuinnAvery_7:
(Start: 46 @3651 has 31 MA's), (81, 3771), (95, 3873), (103, 3909), (131, 3972), (138, 3990), (145, 4011), (153, 4047), (167, 4125), (172, 4146), (185, 4164), (191, 4191), (192, 4197), (206, 4278), (211, 4302), (212, 4317), (258, 4557), (271, 4635),

Gene: REQ2_03 Start: 1933, Stop: 3231, Start Num: 36
Candidate Starts for REQ2_03:
(Start: 36 @1933 has 52 MA's), (72, 2026), (77, 2053), (81, 2071), (83, 2101), (95, 2173), (102, 2203), (190, 2512), (192, 2521), (203, 2590), (207, 2605), (227, 2698), (234, 2731), (246, 2782), (247, 2791), (291, 3031), (296, 3076), (298, 3082),

Gene: RayTheFireFly_3 Start: 2211, Stop: 3584, Start Num: 31
Candidate Starts for RayTheFireFly_3:
(Start: 31 @2211 has 6 MA's), (48, 2241), (64, 2280), (75, 2316), (79, 2337), (81, 2349), (82, 2370), (102, 2481), (138, 2571), (190, 2784), (207, 2877), (212, 2913), (213, 2919), (242, 3045), (256, 3114), (282, 3267), (291, 3309), (298, 3354), (356, 3504), (369, 3534),

Gene: Rem711_9 Start: 5098, Stop: 6549, Start Num: 27
Candidate Starts for Rem711_9:
(Start: 27 @5098 has 32 MA's), (Start: 36 @5116 has 52 MA's), (63, 5191), (81, 5263), (164, 5605), (173, 5650), (184, 5677), (188, 5698), (190, 5710), (207, 5803), (234, 5944), (250, 6016), (257, 6055), (269, 6127), (377, 6514), (384, 6538), (386, 6541),

Gene: Rizz_5 Start: 2412, Stop: 3749, Start Num: 38
Candidate Starts for Rizz_5:
(Start: 38 @2412 has 42 MA's), (77, 2529), (79, 2535), (81, 2547), (83, 2577), (85, 2589), (86, 2592), (89, 2601), (133, 2757), (136, 2763), (144, 2787), (146, 2802), (164, 2883), (184, 2943), (185, 2946), (188, 2958), (212, 3099), (225, 3147), (238, 3207), (291, 3492), (296, 3537), (307, 3594),

Gene: RosiePosie_4 Start: 2813, Stop: 4237, Start Num: 27
Candidate Starts for RosiePosie_4:
(Start: 27 @2813 has 32 MA's), (78, 2948), (81, 2963), (85, 3005), (95, 3065), (97, 3074), (116, 3149), (135, 3194), (143, 3218), (153, 3263), (155, 3266), (157, 3272), (161, 3305), (170, 3356), (174, 3368), (188, 3404), (191, 3419), (198, 3464), (205, 3503), (212, 3545), (213, 3551), (215, 3560), (218, 3578), (237, 3650), (246, 3686), (249, 3701), (254, 3725), (261, 3761), (262, 3767), (264, 3773), (268, 3815), (280, 3884), (282, 3896), (295, 3968), (299, 3992), (335, 4136), (348, 4166), (353, 4175), (358, 4187),

Gene: Ruthy_3 Start: 2022, Stop: 3515, Start Num: 24
Candidate Starts for Ruthy_3:
(Start: 24 @2022 has 26 MA's), (Start: 29 @2031 has 50 MA's), (42, 2052), (69, 2130), (77, 2169), (81, 2187), (82, 2208), (95, 2289), (114, 2352), (132, 2394), (145, 2430), (158, 2484), (176, 2583), (180, 2592), (194, 2658), (209, 2748), (212, 2769), (213, 2775), (229, 2835), (238, 2877), (244, 2901), (246, 2910), (255, 2961), (262, 2991), (267, 3030), (269, 3042), (273, 3057), (284, 3123), (291, 3159), (301, 3228), (329, 3333), (370, 3402), (385, 3441), (386, 3444), (394, 3474), (398, 3507),

Gene: Ryan_7 Start: 3796, Stop: 5076, Start Num: 46
Candidate Starts for Ryan_7:
(Start: 46 @3796 has 31 MA's), (81, 3916), (95, 4018), (131, 4117), (138, 4135), (145, 4156), (153, 4192), (167, 4270), (172, 4291), (185, 4309), (191, 4336), (192, 4342), (211, 4447), (212, 4462), (213, 4468), (214, 4474), (217, 4504), (244, 4627), (246, 4636), (258, 4702),

Gene: Sahara_3 Start: 1903, Stop: 3243, Start Num: 44
Candidate Starts for Sahara_3:
(Start: 44 @1903 has 16 MA's), (Start: 46 @1906 has 31 MA's), (77, 2011), (79, 2017), (81, 2029), (83, 2059), (85, 2071), (86, 2074), (89, 2083), (96, 2134), (144, 2272), (146, 2287), (159, 2341), (208, 2554), (212, 2584), (214, 2596), (225, 2632), (258, 2791), (277, 2905), (291, 2977), (307, 3079), (310, 3097),

Gene: Saintcarr_6 Start: 3655, Stop: 4935, Start Num: 46
Candidate Starts for Saintcarr_6:
(Start: 46 @3655 has 31 MA's), (81, 3775), (95, 3877), (103, 3913), (131, 3976), (138, 3994), (145, 4015), (153, 4051), (167, 4129), (172, 4150), (185, 4168), (191, 4195), (192, 4201), (206, 4282), (211, 4306), (212, 4321), (258, 4561),

Gene: Salgado_16 Start: 11178, Stop: 12620, Start Num: 51
Candidate Starts for Salgado_16:
(Start: 51 @11178 has 7 MA's), (54, 11190), (81, 11295), (106, 11442), (122, 11478), (168, 11664), (170, 11673), (172, 11682), (214, 11859), (233, 11964), (257, 12099), (265, 12141), (271, 12186), (273, 12192), (285, 12267), (291, 12294), (292, 12306), (299, 12351), (305, 12387), (312, 12432), (318, 12450), (323, 12480), (359, 12555), (368, 12579),

Gene: SamW_3 Start: 1970, Stop: 3301, Start Num: 40
Candidate Starts for SamW_3:
(Start: 40 @1970 has 8 MA's), (73, 2063), (81, 2108), (85, 2147), (115, 2270), (133, 2315), (138, 2327), (144, 2345), (147, 2363), (151, 2369), (159, 2414), (166, 2459), (178, 2498), (202, 2627), (212, 2681), (213, 2687), (214, 2693), (229, 2747), (236, 2783), (246, 2822), (248, 2834), (255, 2873), (282, 3032), (292, 3086), (294, 3101), (309, 3188),

Gene: Samba_3 Start: 1940, Stop: 3316, Start Num: 29
Candidate Starts for Samba_3:
(Start: 29 @1940 has 50 MA's), (Start: 41 @1955 has 1 MA's), (42, 1958), (54, 1997), (69, 2045), (77, 2084), (81, 2102), (82, 2123), (98, 2216), (100, 2228), (102, 2234), (145, 2345), (146, 2357), (167, 2456), (179, 2495), (190, 2540), (194, 2558), (196, 2570), (197, 2576), (209, 2648), (212, 2669), (225, 2717), (229, 2735), (231, 2741), (255, 2861), (273, 2960), (279, 3005), (291, 3062), (298, 3113), (307, 3164), (325, 3230), (368, 3308),

Gene: Samman98_4 Start: 2412, Stop: 3749, Start Num: 38
Candidate Starts for Samman98_4:
(Start: 38 @2412 has 42 MA's), (77, 2529), (79, 2535), (81, 2547), (83, 2577), (85, 2589), (86, 2592), (89, 2601), (133, 2757), (136, 2763), (144, 2787), (146, 2802), (164, 2883), (184, 2943), (185, 2946), (188, 2958), (212, 3099), (225, 3147), (271, 3384), (291, 3492), (296, 3537), (307, 3594),

Gene: Savage_3 Start: 1903, Stop: 3252, Start Num: 44
Candidate Starts for Savage_3:
(Start: 44 @1903 has 16 MA's), (Start: 46 @1906 has 31 MA's), (77, 2011), (79, 2017), (81, 2029), (85, 2071), (86, 2074), (89, 2083), (96, 2134), (144, 2272), (146, 2287), (159, 2341), (208, 2554), (212, 2584), (214, 2596), (225, 2632), (258, 2791), (277, 2905), (291, 2977), (296, 3022), (307, 3079),

Gene: Scavito_4 Start: 2813, Stop: 4237, Start Num: 27
Candidate Starts for Scavito_4:
(Start: 27 @2813 has 32 MA's), (78, 2948), (81, 2963), (85, 3005), (95, 3065), (97, 3074), (116, 3149), (135, 3194), (143, 3218), (153, 3263), (155, 3266), (157, 3272), (161, 3305), (170, 3356), (174, 3368), (188, 3404), (191, 3419), (198, 3464), (205, 3503), (212, 3545), (213, 3551), (215, 3560), (237, 3650), (240, 3665), (246, 3686), (249, 3701), (254, 3725), (261, 3761), (262, 3767), (264, 3773), (268, 3815), (280, 3884), (282, 3896), (295, 3968), (299, 3992), (335, 4136), (348, 4166), (353, 4175), (358, 4187),

Gene: Schism_7 Start: 3674, Stop: 4963, Start Num: 46
Candidate Starts for Schism_7:
(Start: 46 @3674 has 31 MA's), (77, 3776), (81, 3794), (85, 3836), (115, 3956), (131, 3995), (138, 4013), (145, 4034), (146, 4046), (185, 4187), (191, 4214), (192, 4220), (206, 4301), (211, 4325), (212, 4340), (213, 4346), (214, 4352), (217, 4382), (246, 4514), (274, 4673), (279, 4709), (282, 4724), (326,

4952),

Gene: Schnabeltier_3 Start: 2188, Stop: 3597, Start Num: 28
Candidate Starts for Schnabeltier_3:
(1, 847), (2, 1180), (3, 1375), (4, 1471), (5, 1489), (6, 1624), (7, 1681), (8, 1684), (9, 1732), (10, 1861), (12, 1978), (14, 2125), (Start: 28 @2188 has 4 MA's), (79, 2335), (81, 2347), (84, 2380), (89, 2401), (138, 2602), (146, 2635), (148, 2644), (164, 2725), (169, 2755), (198, 2878), (212, 2959), (267, 3217), (270, 3235), (280, 3292), (291, 3346), (296, 3391), (298, 3397), (304, 3430), (317, 3490), (344, 3538),

Gene: Sekhmet_4 Start: 2412, Stop: 3749, Start Num: 38
Candidate Starts for Sekhmet_4:
(Start: 38 @2412 has 42 MA's), (77, 2529), (79, 2535), (81, 2547), (83, 2577), (85, 2589), (86, 2592), (89, 2601), (133, 2757), (136, 2763), (144, 2787), (146, 2802), (164, 2883), (185, 2946), (188, 2958), (212, 3099), (225, 3147), (238, 3207), (248, 3252), (291, 3492), (296, 3537), (307, 3594),

Gene: Shade_3 Start: 1970, Stop: 3445, Start Num: 24
Candidate Starts for Shade_3:
(Start: 24 @1970 has 26 MA's), (Start: 30 @1982 has 25 MA's), (79, 2132), (81, 2144), (96, 2249), (127, 2357), (135, 2375), (153, 2447), (171, 2546), (191, 2600), (192, 2606), (212, 2726), (213, 2732), (219, 2762), (242, 2846), (261, 2936), (277, 3041), (291, 3113), (292, 3125), (307, 3215), (361, 3368), (376, 3404), (377, 3407),

Gene: Shipwreck_3 Start: 2094, Stop: 3548, Start Num: 36
Candidate Starts for Shipwreck_3:
(Start: 36 @2094 has 52 MA's), (54, 2136), (81, 2241), (83, 2271), (95, 2343), (145, 2484), (178, 2640), (179, 2643), (180, 2646), (181, 2649), (185, 2664), (190, 2694), (194, 2712), (196, 2724), (225, 2877), (256, 3024), (267, 3093), (270, 3111), (273, 3120), (291, 3222), (296, 3267), (298, 3273), (301, 3291), (385, 3531),

Gene: Shlim410_3 Start: 1909, Stop: 3219, Start Num: 30
Candidate Starts for Shlim410_3:
(Start: 30 @1909 has 25 MA's), (Start: 33 @1915 has 7 MA's), (42, 1930), (68, 2008), (77, 2050), (81, 2068), (82, 2089), (96, 2173), (98, 2182), (128, 2263), (145, 2311), (146, 2323), (157, 2359), (167, 2428), (179, 2467), (190, 2512), (191, 2515), (196, 2542), (212, 2641), (213, 2647), (229, 2707), (236, 2743), (255, 2833), (267, 2905), (273, 2932), (282, 2992), (291, 3034), (304, 3118), (322, 3193),

Gene: Shrooms_16 Start: 11265, Stop: 12710, Start Num: 51
Candidate Starts for Shrooms_16:
(Start: 51 @11265 has 7 MA's), (54, 11277), (81, 11382), (101, 11508), (106, 11529), (122, 11565), (128, 11577), (166, 11742), (168, 11751), (170, 11760), (191, 11808), (214, 11946), (222, 11997), (233, 12051), (245, 12117), (256, 12180), (257, 12186), (265, 12228), (271, 12273), (273, 12279), (277, 12309), (285, 12354), (291, 12381), (292, 12393), (299, 12438), (318, 12537), (323, 12567), (334, 12588), (368, 12669),

Gene: Shynx_7 Start: 2664, Stop: 4199, Start Num: 43
Candidate Starts for Shynx_7:
(Start: 43 @2664 has 12 MA's), (58, 2712), (72, 2760), (107, 2937), (112, 2967), (120, 2988), (125, 3000), (129, 3006), (165, 3162), (169, 3183), (171, 3195), (184, 3222), (191, 3249), (194, 3264), (204, 3330), (215, 3387), (234, 3450), (239, 3471), (252, 3525), (256, 3549), (258, 3561), (282, 3714), (293, 3783), (302, 3831), (308, 3864), (312, 3888), (319, 3915), (333, 3954), (361, 4023), (382, 4074), (399, 4149),

Gene: Sicarius2_3 Start: 1952, Stop: 3409, Start Num: 30

Candidate Starts for Sicarius2_3:
(Start: 30 @1952 has 25 MA's), (55, 2009), (81, 2108), (90, 2165), (93, 2198), (96, 2213), (129, 2324), (135, 2339), (153, 2411), (161, 2453), (167, 2489), (172, 2513), (190, 2561), (191, 2564), (192, 2570), (207, 2654), (212, 2690), (213, 2696), (238, 2792), (261, 2900), (289, 3071), (343, 3290), (346, 3296), (376, 3362),

Gene: Sidious_3 Start: 1912, Stop: 3219, Start Num: 33
Candidate Starts for Sidious_3:
(Start: 29 @1906 has 50 MA's), (Start: 33 @1912 has 7 MA's), (42, 1927), (72, 2020), (77, 2047), (81, 2065), (82, 2086), (96, 2170), (98, 2179), (128, 2260), (145, 2308), (146, 2320), (157, 2356), (167, 2425), (179, 2464), (190, 2509), (191, 2512), (209, 2617), (212, 2638), (213, 2644), (229, 2704), (244, 2770), (255, 2830), (267, 2902), (273, 2929), (282, 2989), (291, 3031), (298, 3082), (310, 3151), (339, 3214),

Gene: SoilAssassin_3 Start: 1903, Stop: 3252, Start Num: 44
Candidate Starts for SoilAssassin_3:
(Start: 44 @1903 has 16 MA's), (Start: 46 @1906 has 31 MA's), (79, 2017), (81, 2029), (83, 2059), (85, 2071), (86, 2074), (89, 2083), (96, 2134), (144, 2272), (146, 2287), (159, 2341), (208, 2554), (212, 2584), (214, 2596), (225, 2632), (258, 2791), (270, 2866), (277, 2905), (291, 2977), (296, 3022), (307, 3079), (350, 3214),

Gene: Soilmate_3 Start: 1973, Stop: 3340, Start Num: 29
Candidate Starts for Soilmate_3:
(Start: 29 @1973 has 50 MA's), (68, 2072), (77, 2114), (81, 2132), (82, 2153), (87, 2180), (95, 2234), (102, 2264), (128, 2327), (145, 2375), (146, 2387), (167, 2492), (179, 2531), (190, 2576), (191, 2579), (196, 2606), (209, 2684), (212, 2705), (214, 2717), (229, 2771), (242, 2831), (255, 2897), (267, 2969), (273, 2996), (291, 3098), (296, 3143), (298, 3149), (304, 3182), (305, 3188),

Gene: Sonah_3 Start: 2106, Stop: 3569, Start Num: 36
Candidate Starts for Sonah_3:
(Start: 36 @2106 has 52 MA's), (54, 2148), (62, 2178), (81, 2253), (83, 2283), (145, 2496), (168, 2613), (178, 2652), (179, 2655), (180, 2658), (181, 2661), (185, 2676), (190, 2706), (194, 2724), (196, 2736), (213, 2841), (225, 2889), (256, 3036), (262, 3063), (267, 3105), (270, 3123), (273, 3132), (282, 3192), (289, 3228), (291, 3234), (296, 3279), (298, 3285), (301, 3303),

Gene: Sonny_3 Start: 1970, Stop: 3445, Start Num: 24
Candidate Starts for Sonny_3:
(Start: 24 @1970 has 26 MA's), (Start: 30 @1982 has 25 MA's), (79, 2132), (81, 2144), (96, 2249), (127, 2357), (135, 2375), (141, 2390), (153, 2447), (171, 2546), (191, 2600), (192, 2606), (212, 2726), (213, 2732), (215, 2741), (219, 2762), (242, 2846), (252, 2891), (261, 2936), (277, 3041), (291, 3113), (292, 3125), (307, 3215), (361, 3368), (376, 3404), (377, 3407),

Gene: Spartan_3 Start: 1946, Stop: 3229, Start Num: 40
Candidate Starts for Spartan_3:
(35, 1940), (Start: 40 @1946 has 8 MA's), (Start: 43 @1955 has 12 MA's), (67, 2006), (77, 2048), (81, 2066), (85, 2108), (87, 2114), (97, 2177), (98, 2180), (103, 2204), (136, 2279), (138, 2285), (157, 2351), (166, 2417), (190, 2498), (195, 2525), (212, 2627), (229, 2693), (230, 2696), (236, 2729), (246, 2768), (262, 2849), (268, 2897), (269, 2903), (281, 2975), (282, 2978), (292, 3035), (301, 3092), (314, 3161),

Gene: Sprinklemunch_3 Start: 2030, Stop: 3442, Start Num: 29
Candidate Starts for Sprinklemunch_3:

(Start: 24 @2021 has 26 MA's), (Start: 29 @2030 has 50 MA's), (42, 2051), (48, 2069), (54, 2090), (55, 2093), (69, 2129), (77, 2168), (81, 2186), (82, 2207), (84, 2219), (103, 2324), (114, 2351), (131, 2390), (132, 2393), (136, 2402), (145, 2429), (166, 2540), (176, 2582), (177, 2585), (180, 2591), (190, 2639), (191, 2642), (194, 2657), (206, 2729), (209, 2747), (212, 2768), (213, 2774), (229, 2834), (246, 2909), (255, 2960), (269, 3041), (273, 3056), (284, 3122), (291, 3158), (329, 3332), (383, 3434),

Gene: Sproutie_3 Start: 1903, Stop: 3252, Start Num: 44
Candidate Starts for Sproutie_3:
(Start: 44 @1903 has 16 MA's), (Start: 46 @1906 has 31 MA's), (77, 2011), (79, 2017), (81, 2029), (85, 2071), (86, 2074), (89, 2083), (96, 2134), (144, 2272), (146, 2287), (159, 2341), (208, 2554), (212, 2584), (214, 2596), (225, 2632), (258, 2791), (277, 2905), (291, 2977), (296, 3022), (307, 3079),

Gene: StAB_3 Start: 1972, Stop: 3303, Start Num: 40
Candidate Starts for StAB_3:
(Start: 40 @1972 has 8 MA's), (73, 2065), (81, 2110), (85, 2149), (133, 2317), (138, 2329), (144, 2347), (147, 2365), (151, 2371), (159, 2416), (166, 2461), (178, 2500), (202, 2629), (212, 2683), (213, 2689), (214, 2695), (229, 2749), (236, 2785), (246, 2824), (255, 2875), (282, 3034), (292, 3088), (294, 3103), (309, 3190),

Gene: StevieBAY_3 Start: 1978, Stop: 3444, Start Num: 30
Candidate Starts for StevieBAY_3:
(Start: 30 @1978 has 25 MA's), (81, 2137), (90, 2194), (96, 2242), (127, 2350), (135, 2368), (172, 2542), (191, 2593), (192, 2599), (202, 2665), (212, 2719), (215, 2734), (219, 2755), (242, 2839), (261, 2929), (279, 3049), (291, 3106), (292, 3118), (307, 3208), (316, 3250), (376, 3397), (377, 3400), (390, 3439),

Gene: StevieRay_3 Start: 2094, Stop: 3548, Start Num: 36
Candidate Starts for StevieRay_3:
(Start: 36 @2094 has 52 MA's), (54, 2136), (81, 2241), (83, 2271), (95, 2343), (145, 2484), (178, 2640), (179, 2643), (180, 2646), (181, 2649), (185, 2664), (190, 2694), (194, 2712), (196, 2724), (225, 2877), (256, 3024), (267, 3093), (270, 3111), (273, 3120), (291, 3222), (296, 3267), (298, 3273), (301, 3291), (385, 3531),

Gene: Stiles_3 Start: 1972, Stop: 3303, Start Num: 40
Candidate Starts for Stiles_3:
(Start: 40 @1972 has 8 MA's), (73, 2065), (81, 2110), (85, 2149), (133, 2317), (138, 2329), (144, 2347), (147, 2365), (151, 2371), (159, 2416), (166, 2461), (178, 2500), (202, 2629), (212, 2683), (213, 2689), (214, 2695), (229, 2749), (236, 2785), (238, 2791), (246, 2824), (255, 2875), (282, 3034), (292, 3088), (294, 3103), (309, 3190),

Gene: StressBall_3 Start: 2093, Stop: 3547, Start Num: 36
Candidate Starts for StressBall_3:
(Start: 36 @2093 has 52 MA's), (54, 2135), (81, 2240), (83, 2270), (95, 2342), (145, 2483), (178, 2639), (179, 2642), (180, 2645), (181, 2648), (185, 2663), (190, 2693), (194, 2711), (196, 2723), (225, 2876), (256, 3023), (267, 3092), (270, 3110), (273, 3119), (291, 3221), (296, 3266), (298, 3272), (301, 3290), (385, 3530),

Gene: Stuff_7 Start: 2667, Stop: 4202, Start Num: 43
Candidate Starts for Stuff_7:
(Start: 43 @2667 has 12 MA's), (58, 2715), (72, 2763), (112, 2970), (120, 2991), (125, 3003), (129, 3009), (169, 3186), (171, 3198), (184, 3225), (191, 3252), (194, 3267), (204, 3333), (215, 3390), (234, 3453), (239, 3474), (252, 3528), (256, 3552), (258, 3564), (282, 3717), (293, 3786), (302, 3834), (308, 3867), (312, 3891), (319, 3918), (333, 3957), (361, 4026), (395, 4134),

Gene: Suerte_3 Start: 1910, Stop: 3247, Start Num: 38
Candidate Starts for Suerte_3:
(Start: 38 @1910 has 42 MA's), (77, 2027), (79, 2033), (81, 2045), (83, 2075), (85, 2087), (86, 2090), (89, 2099), (133, 2255), (136, 2261), (144, 2285), (146, 2300), (164, 2381), (185, 2444), (188, 2456), (212, 2597), (225, 2645), (291, 2990), (296, 3035), (307, 3092),

Gene: SunnyJune_5 Start: 3640, Stop: 5013, Start Num: 27
Candidate Starts for SunnyJune_5:
(19, 3622), (Start: 27 @3640 has 32 MA's), (81, 3784), (84, 3817), (93, 3874), (96, 3889), (98, 3898), (103, 3922), (125, 3994), (135, 4015), (171, 4183), (202, 4306), (212, 4360), (230, 4423), (246, 4495), (261, 4570), (279, 4690), (289, 4741), (296, 4792), (307, 4849), (354, 4975),

Gene: SussRoloMann_7 Start: 3471, Stop: 4898, Start Num: 24
Candidate Starts for SussRoloMann_7:
(Start: 24 @3471 has 26 MA's), (Start: 29 @3480 has 50 MA's), (55, 3543), (77, 3618), (81, 3636), (95, 3738), (100, 3762), (132, 3843), (145, 3879), (153, 3915), (155, 3918), (180, 4041), (189, 4086), (194, 4107), (206, 4179), (212, 4218), (213, 4224), (227, 4275), (229, 4284), (234, 4308), (246, 4359), (255, 4410), (267, 4482), (273, 4509), (277, 4539), (279, 4554), (291, 4611), (297, 4659), (300, 4668), (307, 4713), (309, 4725), (322, 4776), (330, 4791), (340, 4797), (375, 4863),

Gene: TaeYoung_3 Start: 1970, Stop: 3445, Start Num: 24
Candidate Starts for TaeYoung_3:
(Start: 24 @1970 has 26 MA's), (Start: 30 @1982 has 25 MA's), (79, 2132), (81, 2144), (96, 2249), (107, 2297), (127, 2357), (135, 2375), (141, 2390), (153, 2447), (171, 2546), (191, 2600), (192, 2606), (212, 2726), (213, 2732), (215, 2741), (219, 2762), (242, 2846), (252, 2891), (261, 2936), (277, 3041), (291, 3113), (292, 3125), (307, 3215), (361, 3368), (376, 3404), (377, 3407),

Gene: TaronosaurasRx_3 Start: 2189, Stop: 3598, Start Num: 28
Candidate Starts for TaronosaurasRx_3:
(14, 2126), (Start: 25 @2183 has 1 MA's), (Start: 28 @2189 has 4 MA's), (81, 2348), (89, 2402), (138, 2603), (146, 2636), (148, 2645), (169, 2756), (212, 2960), (267, 3218), (270, 3236), (280, 3293), (291, 3347), (298, 3398), (304, 3431), (344, 3539),

Gene: Techage_3 Start: 2106, Stop: 3569, Start Num: 36
Candidate Starts for Techage_3:
(Start: 36 @2106 has 52 MA's), (54, 2148), (62, 2178), (81, 2253), (83, 2283), (145, 2496), (178, 2652), (179, 2655), (180, 2658), (181, 2661), (185, 2676), (190, 2706), (194, 2724), (196, 2736), (225, 2889), (256, 3036), (262, 3063), (267, 3105), (270, 3123), (273, 3132), (282, 3192), (291, 3234), (296, 3279), (298, 3285), (301, 3303), (332, 3432),

Gene: Thespis_3 Start: 2093, Stop: 3547, Start Num: 36
Candidate Starts for Thespis_3:
(Start: 36 @2093 has 52 MA's), (54, 2135), (81, 2240), (83, 2270), (95, 2342), (145, 2483), (178, 2639), (179, 2642), (180, 2645), (181, 2648), (185, 2663), (190, 2693), (194, 2711), (196, 2723), (225, 2876), (256, 3023), (267, 3092), (270, 3110), (273, 3119), (291, 3221), (296, 3266), (298, 3272), (301, 3290), (385, 3530),

Gene: Thimann_4 Start: 2412, Stop: 3749, Start Num: 38
Candidate Starts for Thimann_4:
(Start: 38 @2412 has 42 MA's), (77, 2529), (79, 2535), (81, 2547), (83, 2577), (85, 2589), (86, 2592), (89, 2601), (133, 2757), (136, 2763), (144, 2787), (146, 2802), (164, 2883), (185, 2946), (188, 2958), (212, 3099), (225, 3147), (291, 3492), (296, 3537), (307, 3594),

Gene: ThulaThula_3 Start: 2097, Stop: 3572, Start Num: 36
Candidate Starts for ThulaThula_3:
(Start: 36 @2097 has 52 MA's), (54, 2145), (81, 2250), (83, 2280), (145, 2493), (178, 2649), (180, 2655), (181, 2658), (185, 2673), (194, 2721), (196, 2733), (213, 2838), (225, 2886), (256, 3033), (267, 3102), (270, 3120), (273, 3129), (274, 3138), (284, 3195), (291, 3231), (298, 3282), (343, 3441), (347, 3450), (352, 3462), (385, 3555),

Gene: Timinator_3 Start: 1978, Stop: 3444, Start Num: 30
Candidate Starts for Timinator_3:
(Start: 30 @1978 has 25 MA's), (79, 2125), (81, 2137), (90, 2194), (96, 2242), (127, 2350), (135, 2368), (172, 2542), (191, 2593), (192, 2599), (212, 2719), (215, 2734), (219, 2755), (242, 2839), (261, 2929), (279, 3049), (291, 3106), (292, 3118), (307, 3208), (316, 3250), (376, 3397), (377, 3400), (390, 3439),

Gene: Toast_3 Start: 1950, Stop: 3317, Start Num: 29
Candidate Starts for Toast_3:
(Start: 29 @1950 has 50 MA's), (Start: 41 @1962 has 1 MA's), (42, 1965), (54, 2004), (69, 2052), (77, 2091), (81, 2109), (82, 2130), (100, 2235), (102, 2241), (145, 2352), (157, 2394), (167, 2463), (172, 2487), (179, 2502), (186, 2523), (190, 2547), (194, 2565), (196, 2577), (209, 2655), (225, 2724), (229, 2742), (231, 2748), (244, 2808), (245, 2811), (255, 2868), (267, 2940), (273, 2967), (291, 3069), (298, 3120), (302, 3141), (307, 3171), (309, 3183), (368, 3309),

Gene: ToastyOats_8 Start: 4006, Stop: 5286, Start Num: 46
Candidate Starts for ToastyOats_8:
(Start: 46 @4006 has 31 MA's), (81, 4126), (95, 4228), (103, 4264), (104, 4267), (131, 4327), (136, 4339), (138, 4345), (145, 4366), (153, 4402), (167, 4480), (172, 4501), (185, 4519), (191, 4546), (192, 4552), (206, 4633), (211, 4657), (212, 4672), (214, 4684), (258, 4912),

Gene: Toodles_6 Start: 3735, Stop: 5015, Start Num: 46
Candidate Starts for Toodles_6:
(Start: 46 @3735 has 31 MA's), (81, 3855), (95, 3957), (104, 3996), (131, 4056), (136, 4068), (138, 4074), (145, 4095), (153, 4131), (167, 4209), (172, 4230), (185, 4248), (191, 4275), (192, 4281), (206, 4362), (211, 4386), (212, 4401), (214, 4413), (258, 4641),

Gene: Tophat_4 Start: 2813, Stop: 4237, Start Num: 27
Candidate Starts for Tophat_4:
(Start: 27 @2813 has 32 MA's), (78, 2948), (81, 2963), (85, 3005), (95, 3065), (97, 3074), (116, 3149), (135, 3194), (143, 3218), (153, 3263), (155, 3266), (157, 3272), (161, 3305), (170, 3356), (174, 3368), (188, 3404), (191, 3419), (198, 3464), (205, 3503), (212, 3545), (213, 3551), (215, 3560), (218, 3578), (237, 3650), (246, 3686), (249, 3701), (254, 3725), (261, 3761), (262, 3767), (264, 3773), (268, 3815), (280, 3884), (282, 3896), (295, 3968), (299, 3992), (331, 4127), (335, 4136), (348, 4166), (353, 4175), (358, 4187),

Gene: Tortellini_3 Start: 2097, Stop: 3515, Start Num: 36
Candidate Starts for Tortellini_3:
(Start: 36 @2097 has 52 MA's), (81, 2244), (145, 2487), (178, 2643), (180, 2649), (185, 2667), (189, 2694), (190, 2697), (194, 2715), (196, 2727), (213, 2832), (225, 2880), (256, 3027), (267, 3096), (270, 3114), (273, 3123), (274, 3132), (276, 3144), (279, 3168), (284, 3189), (291, 3225), (298, 3276), (332, 3396), (385, 3498),

Gene: Troy_3 Start: 1970, Stop: 3301, Start Num: 40
Candidate Starts for Troy_3:

(Start: 40 @1970 has 8 MA's), (73, 2063), (81, 2108), (85, 2147), (115, 2270), (133, 2315), (138, 2327), (144, 2345), (147, 2363), (151, 2369), (159, 2414), (166, 2459), (178, 2498), (202, 2627), (212, 2681), (213, 2687), (214, 2693), (229, 2747), (236, 2783), (246, 2822), (248, 2834), (255, 2873), (282, 3032), (292, 3086), (294, 3101), (309, 3188),

Gene: TuertoX_3 Start: 1903, Stop: 3252, Start Num: 44
Candidate Starts for TuertoX_3:
(Start: 44 @1903 has 16 MA's), (Start: 46 @1906 has 31 MA's), (77, 2011), (79, 2017), (81, 2029), (85, 2071), (86, 2074), (89, 2083), (96, 2134), (144, 2272), (146, 2287), (159, 2341), (208, 2554), (212, 2584), (214, 2596), (225, 2632), (258, 2791), (277, 2905), (291, 2977), (296, 3022), (307, 3079),

Gene: Tuti_4 Start: 2412, Stop: 3749, Start Num: 38
Candidate Starts for Tuti_4:
(Start: 38 @2412 has 42 MA's), (77, 2529), (79, 2535), (81, 2547), (83, 2577), (85, 2589), (86, 2592), (89, 2601), (133, 2757), (136, 2763), (144, 2787), (146, 2802), (164, 2883), (184, 2943), (185, 2946), (188, 2958), (212, 3099), (225, 3147), (238, 3207), (291, 3492), (296, 3537), (307, 3594),

Gene: Twinkle_3 Start: 1915, Stop: 3219, Start Num: 33
Candidate Starts for Twinkle_3:
(Start: 30 @1909 has 25 MA's), (Start: 33 @1915 has 7 MA's), (42, 1930), (68, 2008), (77, 2050), (81, 2068), (82, 2089), (96, 2173), (98, 2182), (128, 2263), (145, 2311), (146, 2323), (157, 2359), (167, 2428), (179, 2467), (190, 2512), (191, 2515), (196, 2542), (212, 2641), (213, 2647), (229, 2707), (236, 2743), (255, 2833), (267, 2905), (273, 2932), (282, 2992), (291, 3034), (304, 3118), (322, 3193),

Gene: UNTPL_7 Start: 2670, Stop: 4205, Start Num: 43
Candidate Starts for UNTPL_7:
(Start: 43 @2670 has 12 MA's), (58, 2718), (72, 2766), (107, 2943), (112, 2973), (120, 2994), (129, 3012), (169, 3189), (187, 3234), (191, 3255), (194, 3270), (204, 3336), (215, 3393), (234, 3456), (239, 3477), (252, 3531), (256, 3555), (258, 3567), (282, 3720), (283, 3723), (293, 3789), (302, 3837), (308, 3870), (312, 3894), (319, 3921), (333, 3960), (361, 4029), (395, 4137), (399, 4155),

Gene: Ubuntu_6 Start: 3506, Stop: 4915, Start Num: 38
Candidate Starts for Ubuntu_6:
(Start: 38 @3506 has 42 MA's), (49, 3536), (54, 3554), (60, 3569), (74, 3617), (79, 3641), (81, 3653), (82, 3674), (98, 3767), (101, 3782), (102, 3785), (108, 3809), (140, 3881), (145, 3899), (157, 3953), (158, 3962), (182, 4073), (188, 4103), (203, 4193), (207, 4208), (212, 4244), (225, 4292), (227, 4301), (229, 4310), (232, 4322), (238, 4352), (245, 4379), (246, 4385), (257, 4445), (259, 4454), (266, 4499), (273, 4535), (286, 4613), (289, 4631), (290, 4634), (295, 4667), (301, 4706), (328, 4811), (373, 4898), (374, 4901),

Gene: UmaThurman_3 Start: 1940, Stop: 3316, Start Num: 29
Candidate Starts for UmaThurman_3:
(Start: 29 @1940 has 50 MA's), (Start: 41 @1955 has 1 MA's), (42, 1958), (54, 1997), (69, 2045), (77, 2084), (81, 2102), (82, 2123), (98, 2216), (100, 2228), (102, 2234), (145, 2345), (146, 2357), (167, 2456), (179, 2495), (190, 2540), (194, 2558), (196, 2570), (197, 2576), (212, 2669), (225, 2717), (229, 2735), (231, 2741), (255, 2861), (273, 2960), (279, 3005), (291, 3062), (298, 3113), (307, 3164), (325, 3230), (368, 3308),

Gene: Utz_3 Start: 1940, Stop: 3316, Start Num: 29
Candidate Starts for Utz_3:
(Start: 29 @1940 has 50 MA's), (Start: 41 @1955 has 1 MA's), (42, 1958), (54, 1997), (69, 2045), (77, 2084), (81, 2102), (82, 2123), (98, 2216), (100, 2228), (102, 2234), (145, 2345), (146, 2357), (167, 2456), (179, 2495), (190, 2540), (194, 2558), (196, 2570), (197, 2576), (209, 2648), (212, 2669), (225,

2717), (229, 2735), (231, 2741), (255, 2861), (273, 2960), (279, 3005), (291, 3062), (298, 3113), (307, 3164), (325, 3230), (368, 3308),

Gene: ValentiniPuff_5 Start: 4597, Stop: 5952, Start Num: 25
Candidate Starts for ValentiniPuff_5:
(Start: 25 @4597 has 1 MA's), (79, 4765), (81, 4777), (83, 4807), (101, 4903), (106, 4924), (117, 4945), (155, 5068), (168, 5149), (170, 5158), (184, 5179), (224, 5416), (226, 5425), (235, 5464), (256, 5581), (257, 5587), (260, 5599), (263, 5611), (271, 5674), (274, 5689), (289, 5776), (299, 5839), (313, 5923),

Gene: Vasanti_3 Start: 1904, Stop: 3253, Start Num: 44
Candidate Starts for Vasanti_3:
(Start: 44 @1904 has 16 MA's), (Start: 46 @1907 has 31 MA's), (77, 2012), (79, 2018), (81, 2030), (85, 2072), (86, 2075), (96, 2135), (109, 2189), (133, 2243), (144, 2273), (146, 2288), (159, 2342), (207, 2549), (208, 2555), (212, 2585), (214, 2597), (225, 2633), (258, 2792), (307, 3080),

Gene: Venti_3 Start: 2106, Stop: 3560, Start Num: 36
Candidate Starts for Venti_3:
(Start: 36 @2106 has 52 MA's), (54, 2148), (81, 2253), (83, 2283), (95, 2355), (145, 2496), (178, 2652), (179, 2655), (180, 2658), (181, 2661), (185, 2676), (190, 2706), (194, 2724), (196, 2736), (225, 2889), (256, 3036), (267, 3105), (270, 3123), (273, 3132), (291, 3234), (296, 3279), (298, 3285), (301, 3303), (385, 3543),

Gene: Vibaki_5 Start: 3521, Stop: 5107, Start Num: 27
Candidate Starts for Vibaki_5:
(Start: 27 @3521 has 32 MA's), (74, 3632), (81, 3668), (93, 3758), (96, 3773), (135, 3899), (190, 4115), (198, 4163), (212, 4244), (230, 4304), (232, 4313), (253, 4409), (261, 4451), (273, 4526), (403, 5063), (406, 5099),

Gene: Vidya_3 Start: 2106, Stop: 3560, Start Num: 36
Candidate Starts for Vidya_3:
(Start: 36 @2106 has 52 MA's), (54, 2148), (81, 2253), (83, 2283), (95, 2355), (145, 2496), (178, 2652), (179, 2655), (180, 2658), (181, 2661), (185, 2676), (190, 2706), (194, 2724), (196, 2736), (225, 2889), (256, 3036), (267, 3105), (270, 3123), (273, 3132), (291, 3234), (296, 3279), (298, 3285), (301, 3303), (385, 3543),

Gene: Vitus_5 Start: 3418, Stop: 5046, Start Num: 27
Candidate Starts for Vitus_5:
(Start: 27 @3418 has 32 MA's), (81, 3568), (93, 3658), (98, 3682), (123, 3775), (135, 3799), (152, 3859), (153, 3868), (161, 3910), (202, 4090), (212, 4144), (213, 4150), (215, 4159), (219, 4180), (230, 4207), (245, 4276), (246, 4282), (253, 4315), (261, 4357), (307, 4636), (336, 4726), (348, 4753), (362, 4786), (377, 4828), (403, 5005), (406, 5041),

Gene: Walrus_3 Start: 1974, Stop: 3341, Start Num: 29
Candidate Starts for Walrus_3:
(Start: 29 @1974 has 50 MA's), (68, 2073), (77, 2115), (81, 2133), (82, 2154), (87, 2181), (95, 2235), (128, 2328), (145, 2376), (146, 2388), (167, 2493), (179, 2532), (190, 2577), (191, 2580), (196, 2607), (209, 2685), (212, 2706), (214, 2718), (229, 2772), (242, 2832), (255, 2898), (267, 2970), (273, 2997), (291, 3099), (296, 3144), (298, 3150), (304, 3183), (305, 3189), (363, 3318),

Gene: Waltz_16 Start: 11327, Stop: 12772, Start Num: 51
Candidate Starts for Waltz_16:
(Start: 51 @11327 has 7 MA's), (54, 11339), (81, 11444), (101, 11570), (106, 11591), (122, 11627), (128, 11639), (166, 11804), (168, 11813), (170, 11822), (214, 12008), (222, 12059), (233, 12113),

(245, 12179), (256, 12242), (257, 12248), (265, 12290), (271, 12335), (273, 12341), (277, 12371), (285, 12416), (291, 12443), (292, 12455), (299, 12500), (318, 12599), (323, 12629), (334, 12650), (368, 12731),

Gene: Webster2_6 Start: 3506, Stop: 4915, Start Num: 38
Candidate Starts for Webster2_6:
(Start: 38 @3506 has 42 MA's), (49, 3536), (54, 3554), (60, 3569), (74, 3617), (79, 3641), (81, 3653), (82, 3674), (98, 3767), (101, 3782), (102, 3785), (108, 3809), (140, 3881), (145, 3899), (157, 3953), (158, 3962), (182, 4073), (188, 4103), (203, 4193), (207, 4208), (212, 4244), (225, 4292), (227, 4301), (229, 4310), (232, 4322), (238, 4352), (245, 4379), (246, 4385), (257, 4445), (259, 4454), (266, 4499), (273, 4535), (286, 4613), (289, 4631), (290, 4634), (295, 4667), (301, 4706), (328, 4811), (373, 4898), (374, 4901),

Gene: Weirdo19_3 Start: 2223, Stop: 3674, Start Num: 13
Candidate Starts for Weirdo19_3:
(Start: 13 @2223 has 1 MA's), (17, 2271), (21, 2283), (Start: 47 @2340 has 2 MA's), (72, 2418), (79, 2451), (81, 2463), (82, 2484), (85, 2505), (87, 2511), (99, 2586), (100, 2589), (102, 2595), (103, 2601), (138, 2688), (145, 2709), (156, 2751), (190, 2907), (191, 2910), (198, 2955), (212, 3036), (213, 3042), (227, 3093), (236, 3138), (246, 3177), (267, 3297), (270, 3315), (291, 3426), (298, 3477), (307, 3528), (310, 3546),

Gene: Whack_3 Start: 2002, Stop: 3288, Start Num: 36
Candidate Starts for Whack_3:
(Start: 36 @2002 has 52 MA's), (39, 2005), (45, 2020), (79, 2137), (81, 2149), (82, 2170), (84, 2182), (95, 2251), (98, 2263), (118, 2320), (155, 2431), (157, 2437), (179, 2545), (192, 2599), (207, 2683), (209, 2698), (212, 2719), (213, 2725), (227, 2776), (244, 2851), (250, 2881), (267, 2980), (291, 3109), (300, 3166),

Gene: WheatThin_7 Start: 3471, Stop: 4898, Start Num: 24
Candidate Starts for WheatThin_7:
(Start: 24 @3471 has 26 MA's), (Start: 29 @3480 has 50 MA's), (55, 3543), (77, 3618), (81, 3636), (95, 3738), (100, 3762), (132, 3843), (145, 3879), (153, 3915), (155, 3918), (180, 4041), (189, 4086), (194, 4107), (206, 4179), (212, 4218), (213, 4224), (227, 4275), (229, 4284), (234, 4308), (246, 4359), (255, 4410), (267, 4482), (273, 4509), (277, 4539), (279, 4554), (291, 4611), (297, 4659), (300, 4668), (307, 4713), (309, 4725), (322, 4776), (330, 4791), (340, 4797), (375, 4863),

Gene: Wheelbite_16 Start: 11302, Stop: 12744, Start Num: 51
Candidate Starts for Wheelbite_16:
(Start: 51 @11302 has 7 MA's), (54, 11314), (81, 11419), (106, 11566), (122, 11602), (139, 11641), (168, 11788), (170, 11797), (172, 11806), (214, 11983), (233, 12088), (257, 12223), (263, 12247), (265, 12265), (271, 12310), (273, 12316), (285, 12391), (291, 12418), (299, 12475), (305, 12511), (312, 12556), (318, 12574), (323, 12604), (368, 12703),

Gene: Whiteclaw_3 Start: 1906, Stop: 3252, Start Num: 46
Candidate Starts for Whiteclaw_3:
(Start: 44 @1903 has 16 MA's), (Start: 46 @1906 has 31 MA's), (77, 2011), (79, 2017), (81, 2029), (85, 2071), (86, 2074), (89, 2083), (96, 2134), (144, 2272), (146, 2287), (159, 2341), (208, 2554), (212, 2584), (214, 2596), (225, 2632), (258, 2791), (277, 2905), (291, 2977), (296, 3022), (307, 3079),

Gene: William_3 Start: 1950, Stop: 3317, Start Num: 29
Candidate Starts for William_3:
(Start: 29 @1950 has 50 MA's), (Start: 41 @1962 has 1 MA's), (42, 1965), (54, 2004), (69, 2052), (77, 2091), (81, 2109), (82, 2130), (98, 2223), (100, 2235), (102, 2241), (136, 2325), (145, 2352), (157,

2394), (167, 2463), (179, 2502), (186, 2523), (190, 2547), (194, 2565), (196, 2577), (209, 2655), (225, 2724), (229, 2742), (231, 2748), (245, 2811), (255, 2868), (267, 2940), (273, 2967), (291, 3069), (298, 3120), (307, 3171), (309, 3183), (368, 3309),

Gene: Willsammy_3 Start: 2093, Stop: 3547, Start Num: 36
Candidate Starts for Willsammy_3:
(Start: 36 @2093 has 52 MA's), (54, 2135), (81, 2240), (83, 2270), (95, 2342), (145, 2483), (178, 2639), (179, 2642), (180, 2645), (181, 2648), (185, 2663), (190, 2693), (194, 2711), (196, 2723), (225, 2876), (256, 3023), (267, 3092), (270, 3110), (273, 3119), (291, 3221), (296, 3266), (298, 3272), (301, 3290), (385, 3530),

Gene: WinkNick_4 Start: 2412, Stop: 3749, Start Num: 38
Candidate Starts for WinkNick_4:
(Start: 38 @2412 has 42 MA's), (77, 2529), (79, 2535), (81, 2547), (83, 2577), (85, 2589), (86, 2592), (89, 2601), (133, 2757), (136, 2763), (144, 2787), (146, 2802), (164, 2883), (184, 2943), (185, 2946), (188, 2958), (212, 3099), (225, 3147), (271, 3384), (291, 3492), (296, 3537), (307, 3594),

Gene: Wishmaker_6 Start: 3506, Stop: 4915, Start Num: 38
Candidate Starts for Wishmaker_6:
(Start: 38 @3506 has 42 MA's), (49, 3536), (54, 3554), (60, 3569), (74, 3617), (79, 3641), (81, 3653), (82, 3674), (98, 3767), (101, 3782), (102, 3785), (108, 3809), (140, 3881), (145, 3899), (157, 3953), (158, 3962), (182, 4073), (188, 4103), (203, 4193), (207, 4208), (212, 4244), (225, 4292), (227, 4301), (229, 4310), (232, 4322), (238, 4352), (245, 4379), (246, 4385), (257, 4445), (259, 4454), (266, 4499), (273, 4535), (286, 4613), (289, 4631), (290, 4634), (295, 4667), (298, 4688), (301, 4706), (328, 4811), (373, 4898), (374, 4901),

Gene: Wisp_3 Start: 1940, Stop: 3316, Start Num: 29
Candidate Starts for Wisp_3:
(Start: 29 @1940 has 50 MA's), (Start: 41 @1955 has 1 MA's), (42, 1958), (54, 1997), (69, 2045), (77, 2084), (81, 2102), (82, 2123), (98, 2216), (100, 2228), (102, 2234), (145, 2345), (146, 2357), (167, 2456), (179, 2495), (190, 2540), (194, 2558), (196, 2570), (197, 2576), (209, 2648), (212, 2669), (225, 2717), (229, 2735), (231, 2741), (255, 2861), (273, 2960), (279, 3005), (291, 3062), (296, 3107), (298, 3113), (307, 3164), (325, 3230), (368, 3308),

Gene: Wocket_3 Start: 1940, Stop: 3307, Start Num: 29
Candidate Starts for Wocket_3:
(Start: 29 @1940 has 50 MA's), (Start: 41 @1955 has 1 MA's), (42, 1958), (54, 1997), (69, 2045), (77, 2084), (81, 2102), (82, 2123), (98, 2216), (100, 2228), (102, 2234), (140, 2327), (145, 2345), (146, 2357), (167, 2456), (179, 2495), (190, 2540), (194, 2558), (196, 2570), (197, 2576), (209, 2648), (212, 2669), (229, 2735), (231, 2741), (248, 2822), (255, 2861), (273, 2960), (279, 3005), (291, 3062), (298, 3113), (307, 3164), (325, 3221), (366, 3296), (368, 3299),

Gene: Wyborn_3 Start: 1952, Stop: 3418, Start Num: 30
Candidate Starts for Wyborn_3:
(Start: 30 @1952 has 25 MA's), (55, 2009), (81, 2108), (90, 2165), (93, 2198), (96, 2213), (129, 2324), (135, 2339), (153, 2411), (161, 2453), (167, 2489), (172, 2513), (190, 2561), (191, 2564), (207, 2654), (212, 2690), (213, 2696), (238, 2792), (261, 2900), (289, 3071), (376, 3371),

Gene: Xavia_3 Start: 2098, Stop: 3558, Start Num: 36
Candidate Starts for Xavia_3:
(Start: 36 @2098 has 52 MA's), (77, 2233), (81, 2251), (83, 2281), (95, 2353), (145, 2494), (178, 2650), (179, 2653), (180, 2656), (181, 2659), (185, 2674), (190, 2704), (194, 2722), (196, 2734), (213, 2839), (225, 2887), (256, 3034), (267, 3103), (270, 3121), (273, 3130), (291, 3232), (298, 3283), (301, 3301),

(385, 3541),

Gene: Yeet412_3 Start: 1903, Stop: 3252, Start Num: 44
Candidate Starts for Yeet412_3:
(Start: 44 @1903 has 16 MA's), (Start: 46 @1906 has 31 MA's), (79, 2017), (81, 2029), (83, 2059), (85, 2071), (86, 2074), (89, 2083), (96, 2134), (144, 2272), (146, 2287), (159, 2341), (208, 2554), (212, 2584), (214, 2596), (225, 2632), (258, 2791), (270, 2866), (277, 2905), (291, 2977), (296, 3022), (307, 3079), (350, 3214),

Gene: Yeezy_3 Start: 1906, Stop: 3216, Start Num: 29
Candidate Starts for Yeezy_3:
(Start: 29 @1906 has 50 MA's), (Start: 33 @1912 has 7 MA's), (42, 1924), (77, 2044), (81, 2062), (82, 2083), (87, 2110), (96, 2167), (98, 2176), (145, 2305), (146, 2317), (157, 2353), (167, 2422), (179, 2461), (191, 2509), (209, 2614), (212, 2635), (213, 2641), (229, 2701), (255, 2827), (267, 2899), (273, 2926), (291, 3028), (298, 3079), (304, 3112),

Gene: Yinzer_3 Start: 1903, Stop: 3252, Start Num: 44
Candidate Starts for Yinzer_3:
(Start: 44 @1903 has 16 MA's), (Start: 46 @1906 has 31 MA's), (77, 2011), (79, 2017), (81, 2029), (85, 2071), (86, 2074), (89, 2083), (96, 2134), (144, 2272), (146, 2287), (159, 2341), (208, 2554), (212, 2584), (214, 2596), (225, 2632), (258, 2791), (277, 2905), (291, 2977), (296, 3022), (307, 3079),

Gene: Yonex_7 Start: 3796, Stop: 5076, Start Num: 46
Candidate Starts for Yonex_7:
(Start: 46 @3796 has 31 MA's), (81, 3916), (95, 4018), (131, 4117), (138, 4135), (145, 4156), (153, 4192), (167, 4270), (172, 4291), (185, 4309), (191, 4336), (192, 4342), (211, 4447), (212, 4462), (213, 4468), (214, 4474), (217, 4504), (244, 4627), (246, 4636), (258, 4702),

Gene: ZAYM_3 Start: 2188, Stop: 3597, Start Num: 28
Candidate Starts for ZAYM_3:
(14, 2125), (Start: 25 @2182 has 1 MA's), (Start: 28 @2188 has 4 MA's), (81, 2347), (89, 2401), (138, 2602), (146, 2635), (148, 2644), (169, 2755), (212, 2959), (267, 3217), (270, 3235), (280, 3292), (291, 3346), (298, 3397), (304, 3430), (344, 3538),

Gene: Zaheer_7 Start: 3885, Stop: 5165, Start Num: 46
Candidate Starts for Zaheer_7:
(Start: 46 @3885 has 31 MA's), (81, 4005), (95, 4107), (131, 4206), (138, 4224), (145, 4245), (153, 4281), (167, 4359), (172, 4380), (185, 4398), (191, 4425), (192, 4431), (211, 4536), (212, 4551), (213, 4557), (214, 4563), (217, 4593), (244, 4716), (246, 4725), (258, 4791),

Gene: Zarbodnamra_3 Start: 1939, Stop: 3315, Start Num: 29
Candidate Starts for Zarbodnamra_3:
(Start: 29 @1939 has 50 MA's), (Start: 41 @1954 has 1 MA's), (42, 1957), (54, 1996), (69, 2044), (77, 2083), (81, 2101), (82, 2122), (98, 2215), (100, 2227), (102, 2233), (145, 2344), (146, 2356), (179, 2494), (190, 2539), (194, 2557), (196, 2569), (197, 2575), (209, 2647), (212, 2668), (225, 2716), (229, 2734), (231, 2740), (255, 2860), (273, 2959), (279, 3004), (291, 3061), (298, 3112), (307, 3163), (368, 3307),

Gene: Zartrosa_3 Start: 1970, Stop: 3445, Start Num: 24
Candidate Starts for Zartrosa_3:
(Start: 24 @1970 has 26 MA's), (Start: 30 @1982 has 25 MA's), (79, 2132), (81, 2144), (96, 2249), (127, 2357), (135, 2375), (153, 2447), (171, 2546), (191, 2600), (192, 2606), (212, 2726), (213, 2732), (219, 2762), (242, 2846), (261, 2936), (277, 3041), (291, 3113), (292, 3125), (307, 3215), (361, 3368),

(376, 3404), (377, 3407),

Gene: ZiggyZoo_3 Start: 1940, Stop: 3316, Start Num: 29
Candidate Starts for ZiggyZoo_3:
(Start: 29 @1940 has 50 MA's), (Start: 41 @1955 has 1 MA's), (42, 1958), (54, 1997), (69, 2045), (77, 2084), (81, 2102), (82, 2123), (84, 2135), (98, 2216), (100, 2228), (102, 2234), (145, 2345), (146, 2357), (167, 2456), (179, 2495), (190, 2540), (194, 2558), (196, 2570), (197, 2576), (209, 2648), (212, 2669), (229, 2735), (231, 2741), (242, 2795), (255, 2861), (273, 2960), (279, 3005), (291, 3062), (298, 3113), (307, 3164), (325, 3230), (368, 3308),

Gene: Zilizebeth_3 Start: 2106, Stop: 3560, Start Num: 36
Candidate Starts for Zilizebeth_3:
(Start: 36 @2106 has 52 MA's), (54, 2148), (81, 2253), (83, 2283), (95, 2355), (145, 2496), (178, 2652), (179, 2655), (180, 2658), (181, 2661), (185, 2676), (190, 2706), (194, 2724), (196, 2736), (225, 2889), (256, 3036), (267, 3105), (270, 3123), (273, 3132), (291, 3234), (296, 3279), (298, 3285), (301, 3303), (385, 3543),

Gene: Zilla_3 Start: 1940, Stop: 3304, Start Num: 29
Candidate Starts for Zilla_3:
(Start: 29 @1940 has 50 MA's), (Start: 41 @1955 has 1 MA's), (42, 1958), (54, 1997), (69, 2045), (77, 2084), (81, 2102), (82, 2123), (96, 2207), (100, 2228), (146, 2357), (170, 2471), (179, 2495), (180, 2498), (194, 2558), (196, 2570), (197, 2576), (209, 2648), (212, 2669), (229, 2735), (231, 2741), (255, 2861), (273, 2960), (282, 3020), (289, 3056), (291, 3062), (298, 3113), (307, 3164), (368, 3296),

Gene: Zodiariah_3 Start: 2031, Stop: 3443, Start Num: 29
Candidate Starts for Zodiariah_3:
(Start: 29 @2031 has 50 MA's), (42, 2052), (54, 2091), (69, 2130), (77, 2169), (81, 2187), (82, 2208), (84, 2220), (103, 2325), (114, 2352), (132, 2394), (136, 2403), (145, 2430), (176, 2583), (177, 2586), (180, 2592), (190, 2640), (191, 2643), (194, 2658), (206, 2730), (209, 2748), (212, 2769), (213, 2775), (229, 2835), (242, 2895), (246, 2910), (255, 2961), (267, 3030), (269, 3042), (273, 3057), (284, 3123), (291, 3159), (329, 3333), (364, 3384),