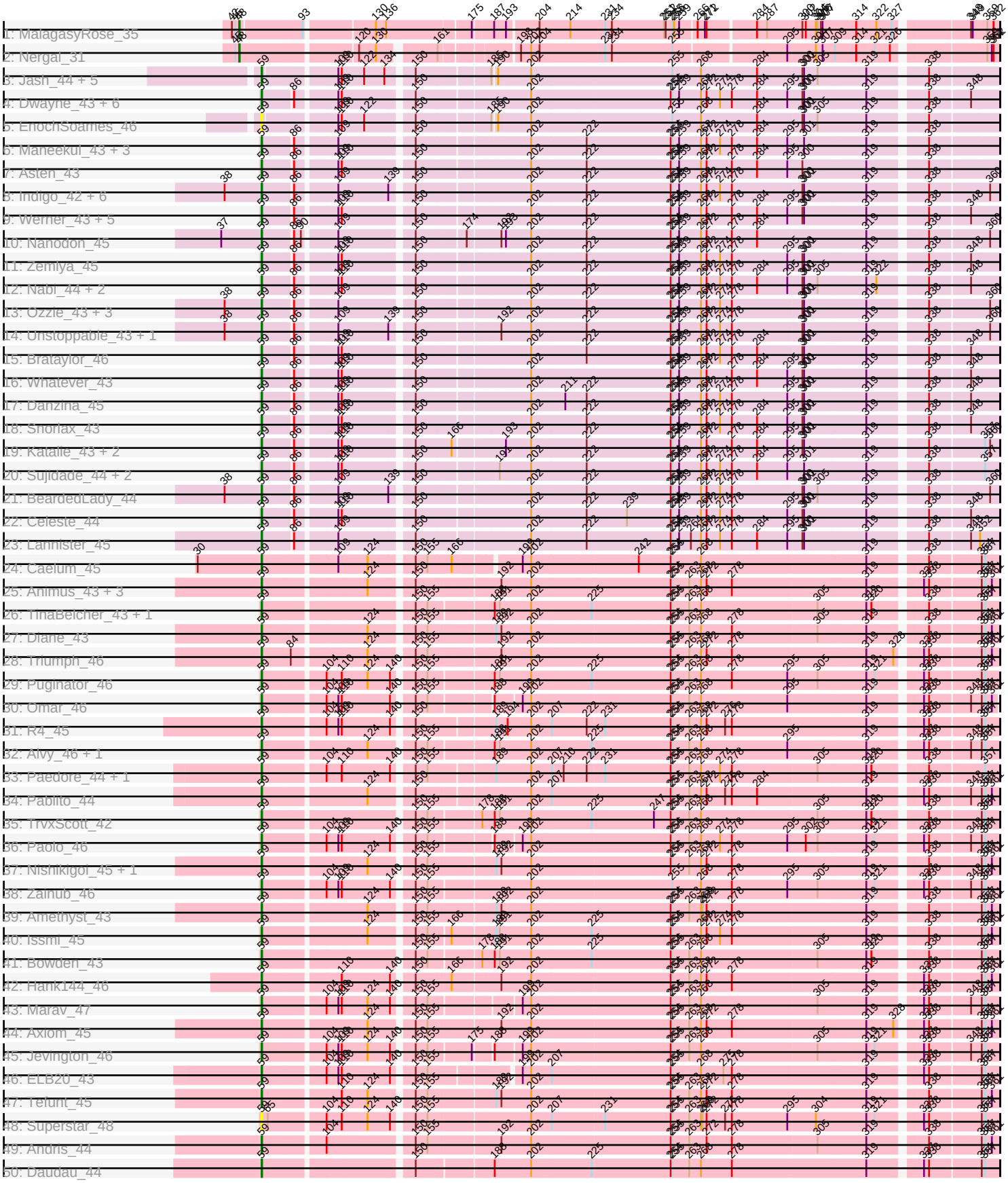
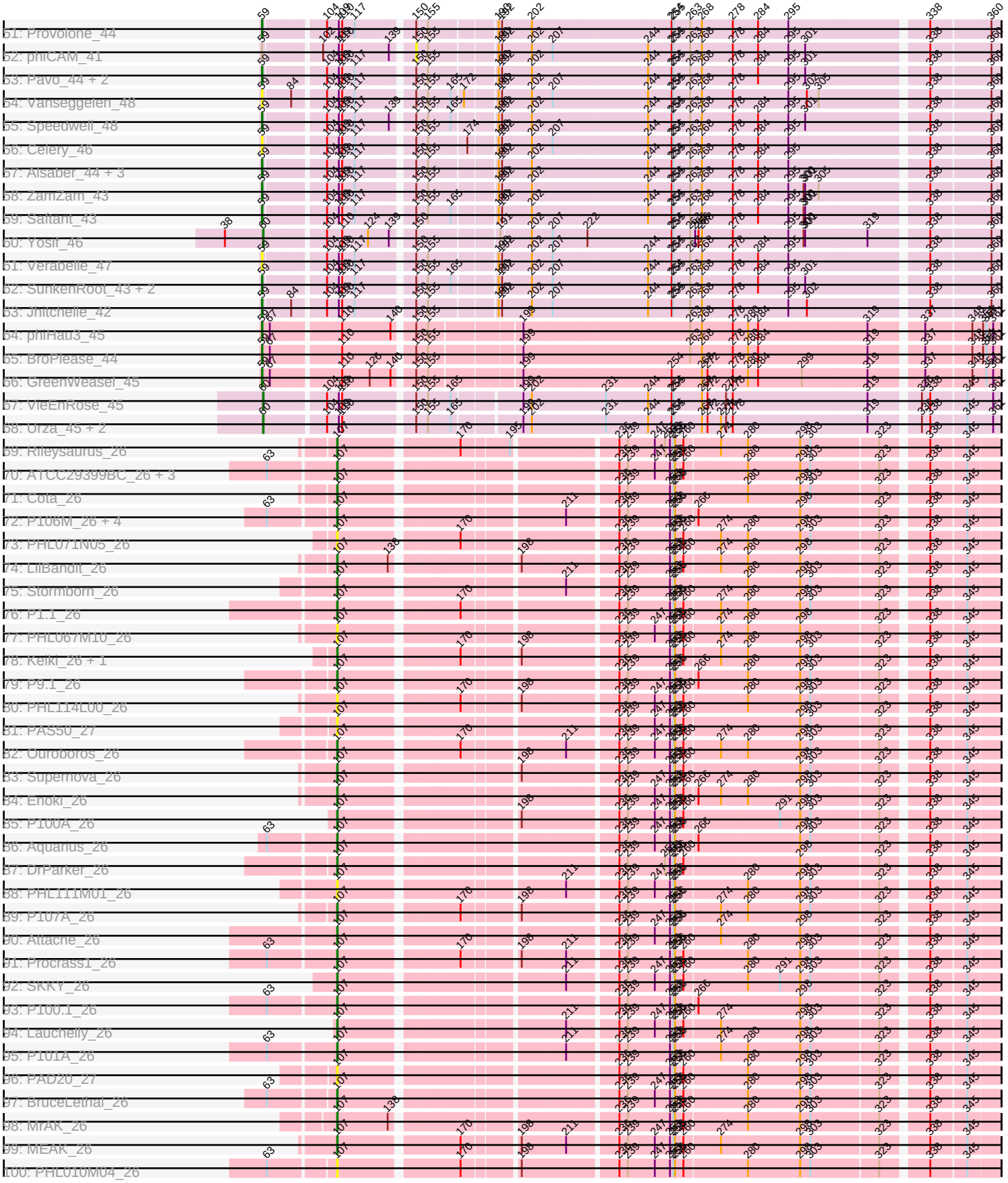
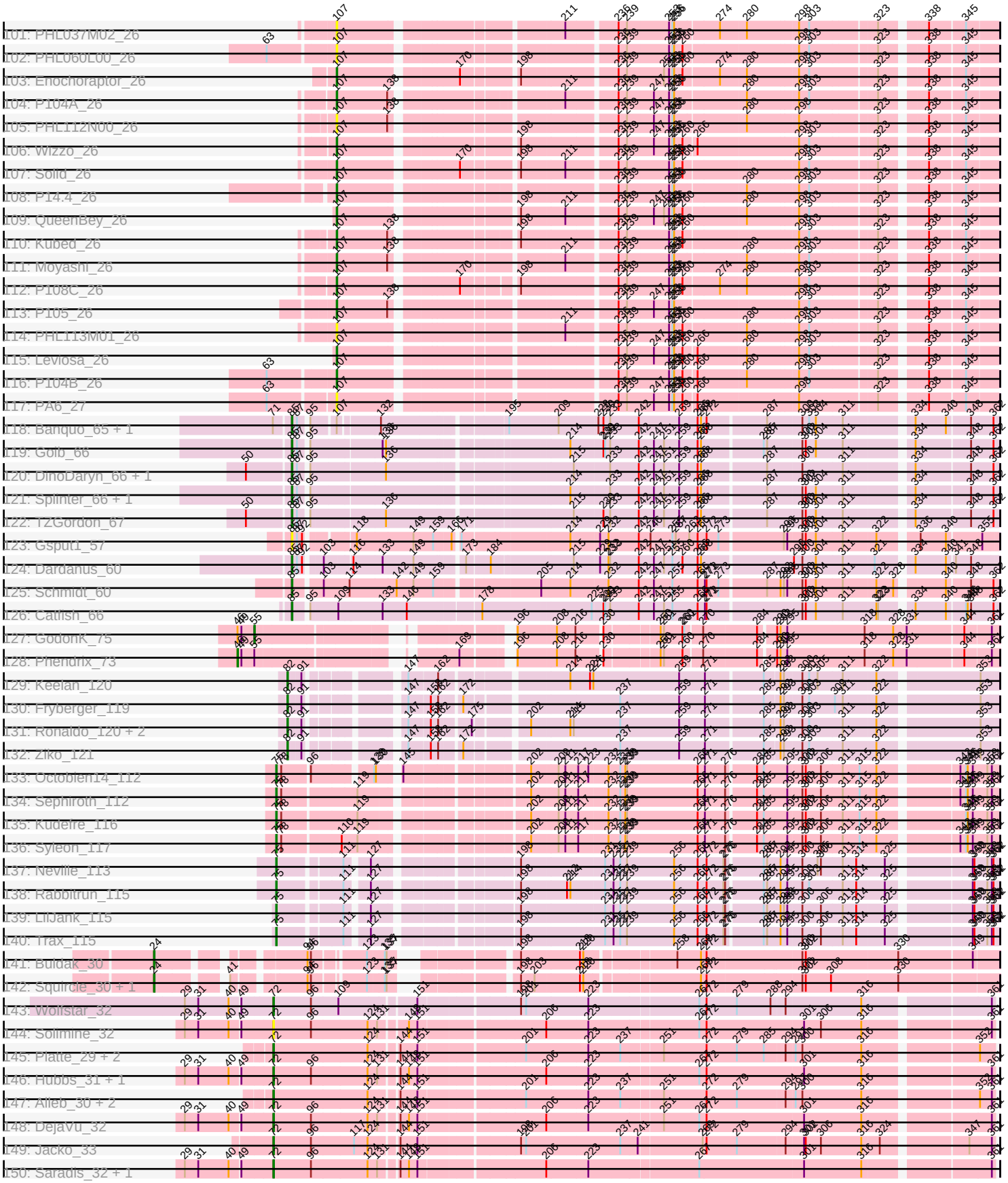
Pham 347070


1: MalagasyRose_35
2: Nergal_31
3: Jash_44 + 5
4: Dwayne_43 + 6
5: EnochSoames_46
6: Maneekul_43 + 3
7: Asten_43
8: Indigo_42 + 6
9: Werner_43 + 5
10: Nanodon_45
11: Zemlya_45
12: Nabi_44 + 2
13: Ozzie_43 + 3
14: Onstoppable_43 + 1
15: Brataylor_46
16: Whatever_43
17: Danzina_45
18: Shonax_43
19: Katalie_43 + 2
20: Sujidade_44 + 2
21: BeardedLady_44
22: Celeste_44
23: Lannister_45
24: Caelum_45
25: Animus_43 + 3
26: TinaBelcher_43 + 1
27: Diane_43
28: Triumph_46
29: Puginator_46
30: Omar_46
31: R4_45
32: Alvy_46 + 1
33: Paedore_44 + 1
34: Pablito_44
35: TrvxScott_42
36: Paolo_46
37: Nishikigoi_45 + 1
38: Zainub_46
39: Amethyst_43
40: Issmi_45
41: Bowden_43
42: Hank144_46
43: Marav_47
44: Axiom_45
45: Jevington_46
46: ELB20_43
47: Telunt_45
48: Superstar_48
49: Andris_44
50: Daudau_44

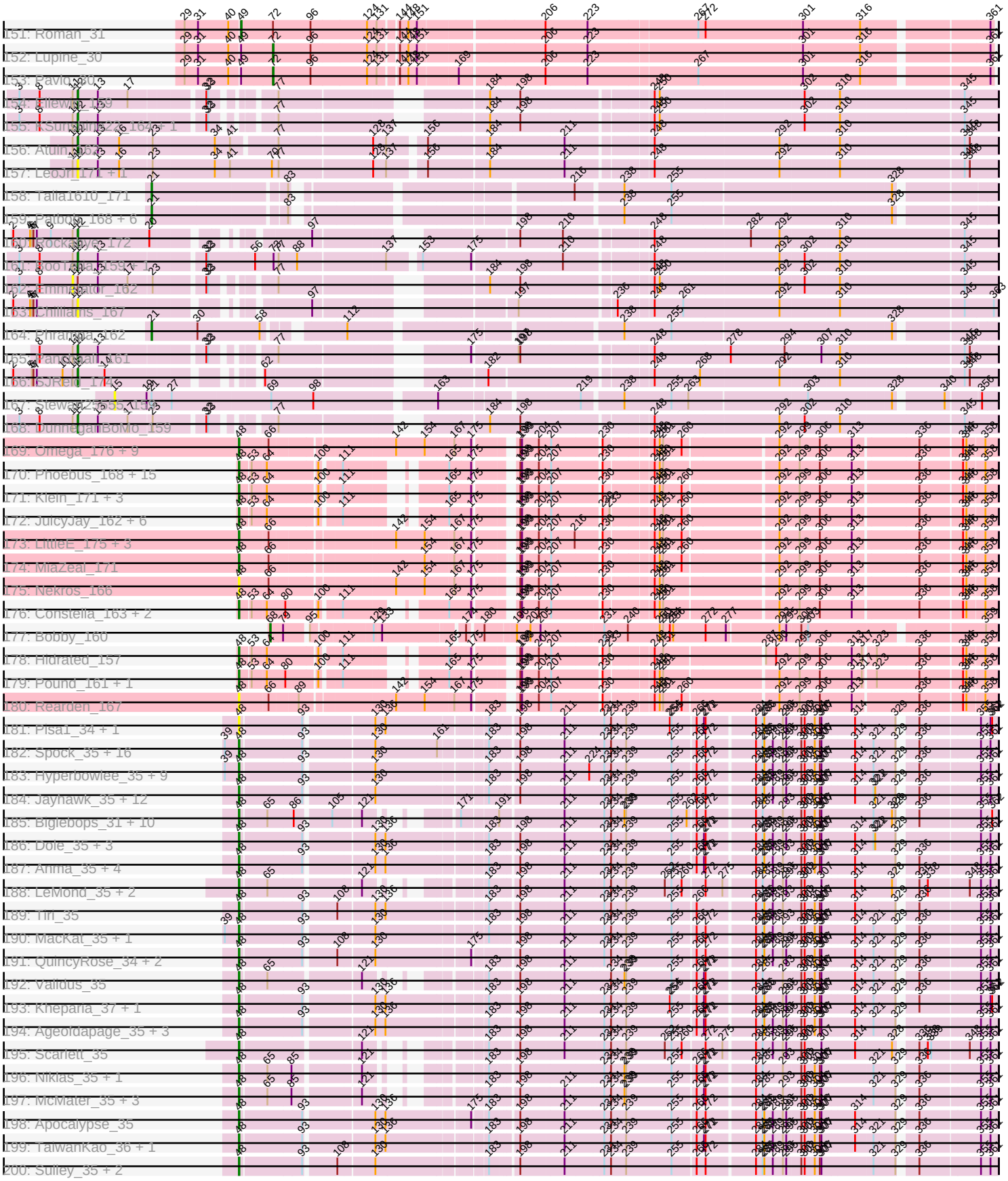
Pham 347070


51: Provolone_44
52: phiCAM_41
53: Pavo_44 + 2
54: Vanseggelen_48
55: Speedwell_48
56: Celery_46
57: Alsaber_44 + 3
58: ZamZam_43
59: Saltant_43
60: Yosif_46
61: Verabelle_47
62: SunkenRoot_43 + 2
63: Jhitchelle_42
64: phiHau3_45
65: BroPlease_44
66: GreenWeasel_45
67: VieEnRose_45
68: Urza_45 + 2
69: Rileysaurus_26
70: ATCC29399BC_26 + 3
71: Cota_26
72: P106M_26 + 4
73: PHL071N05_26
74: LilBandit_26
75: Stormborn_26
76: P1.1_26
77: PHL067M10_26
78: Keiki_26 + 1
79: P9.1_26
80: PHL114L00_26
81: PAS50_27
82: Ouroboros_26
83: Supernova_26
84: Enoki_26
85: P100A_26
86: Aquarius_26
87: DrParker_26
88: PHL111M01_26
89: P107A_26
90: Attache_26
91: Procrass1_26
92: SKKY_26
93: P100.1_26
94: Lauchelly_26
95: P101A_26
96: PAD20_27
97: BruceLethal_26
98: MrAK_26
99: MEAK_26
100: PHL010M04_26

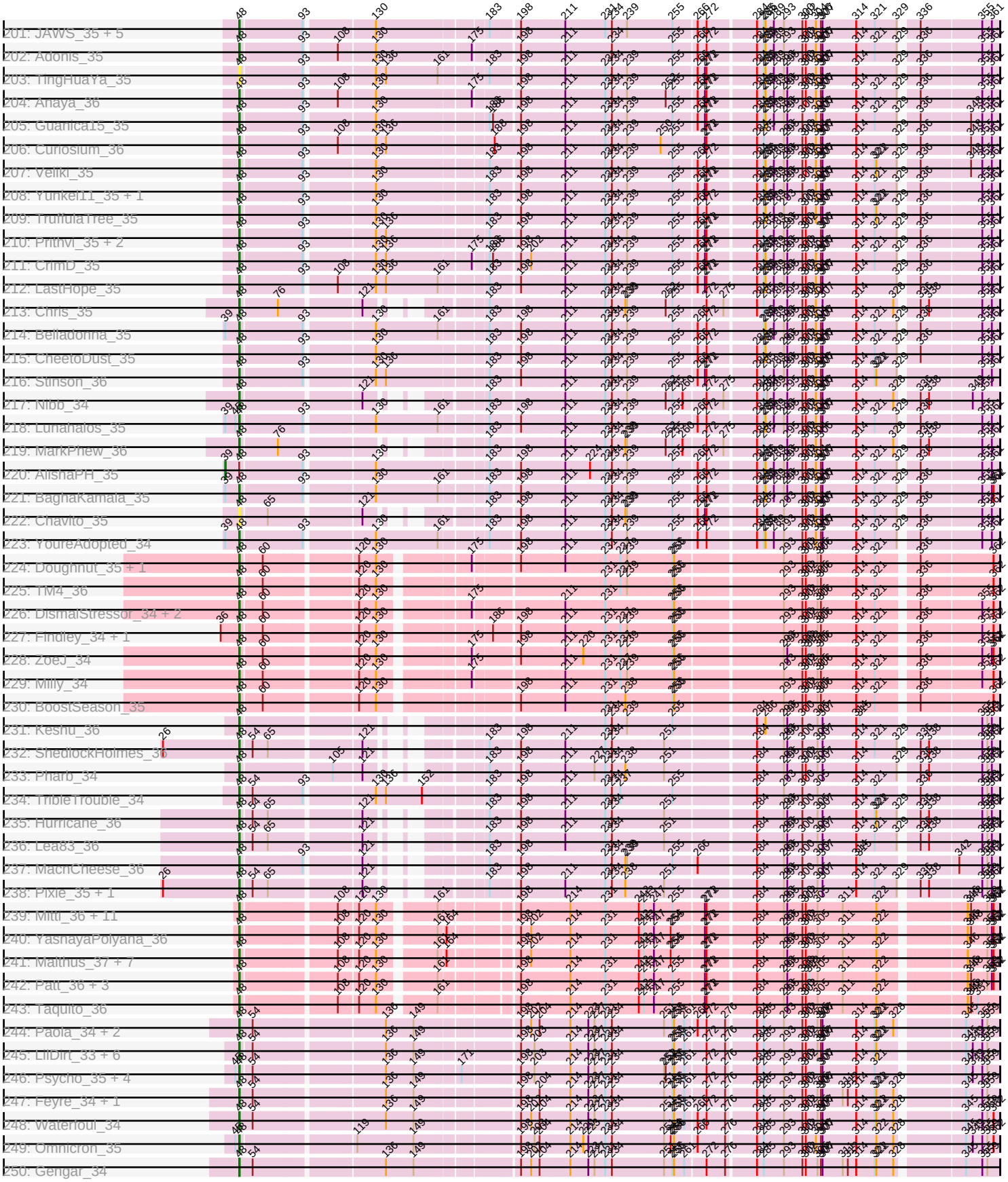
Pham 347070



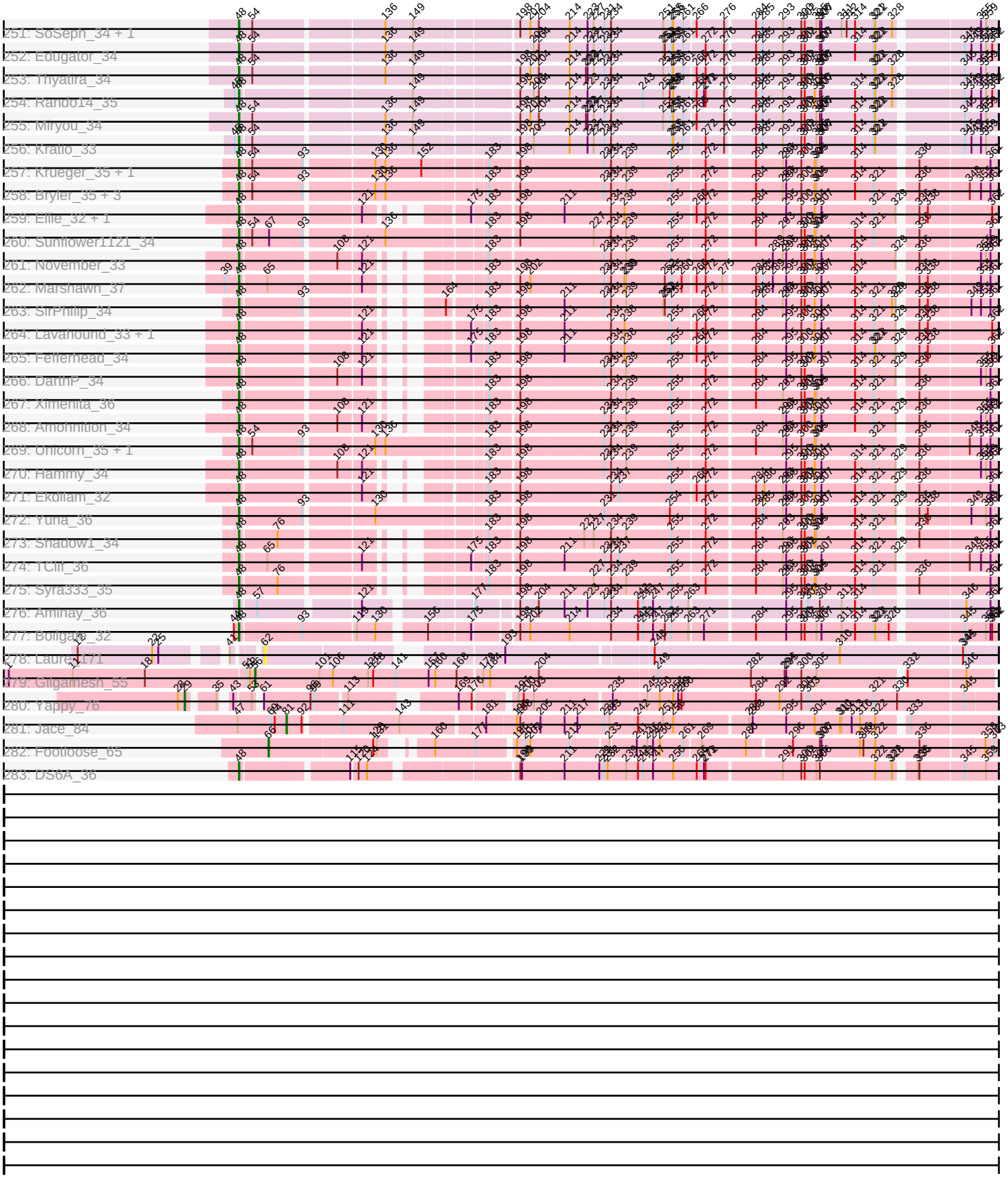
Pham 347070


151: Roman_31
152: Lupine_30
153: PaVlo_160
154: Tilewall_159
155: KSunshine22_164 + 1
156: Atum_163
157: LeoJr_171 + 1
158: Talia1610_171
159: Patbob_168 + 6
160: Rockabyeye_172
161: Shoo7aka_159 + 1
162: Emmabaldor_162
163: Chilliams_167
164: Phranzia_162
165: Pandamail_161
166: BJReid_177
167: Stewart2535_159
168: DunnegalBoMo_159
169: Omega_176 + 9
170: Phoebus_168 + 15
171: Klein_171 + 3
172: JuicyJay_162 + 6
173: LittleE_175 + 3
174: MiaZeal_171
175: Nekros_166
176: Constella_163 + 2
177: Bobby_160
178: Hidrated_157
179: Pound_161 + 1
180: Rearden_167
181: Pisa1_34 + 1
182: Spock_35 + 16
183: Hyperbowlee_35 + 9
184: Jayhawk_35 + 12
185: Biglebops_31 + 10
186: Dole_35 + 3
187: Anima_35 + 4
188: LeMond_35 + 2
189: Tin_35
190: MacKat_35 + 1
191: QuincyRose_34 + 2
192: Validus_35
193: Kneparia_37 + 1
194: Ageoldapage_35 + 3
195: Scarlett_35
196: Niklas_35 + 1
197: McMater_35 + 3
198: Apocalypse_35
199: TaiwanKao_36 + 1
200: Sulley_35 + 2

Pham 347070


201: JAWS_35 + 5
202: Adonis_35
203: YingHuaYa_35
204: Anaya_36
205: Guanica15_35
206: Curiosium_36
207: Velliki_35
208: Yunkel11_35 + 1
209: TruNuiaTree_35
210: Prithvi_35 + 2
211: ChimD_35
212: LastHope_35
213: Chris_35
214: Belladonna_35
215: CheetoDust_35
216: Stinson_36
217: Nibb_34
218: Lunahalos_35
219: MarkPhew_36
220: AlishaPH_35
221: BaghaKamala_35
222: Chavito_35
223: YoureAdopted_34
224: Doughnut_35 + 1
225: TM4_36
226: DismalStressor_34 + 2
227: Findley_34 + 1
228: ZoeJ_34
229: Milly_34
230: BoostSeason_35
231: Keshu_36
232: SheDlockHolmes_36
233: Pharb_34
234: TribleTrouble_34
235: Hurricane_36
236: Lea83_36
237: MacheCheese_36
238: Pixie_35 + 1
239: Mitti_36 + 11
240: YashayaPolyana_36
241: Malthus_37 + 7
242: Patt_36 + 3
243: Taquito_36
244: Paola_34 + 2
245: LilDirt_33 + 6
246: Psycho_35 + 4
247: Feyre_34 + 1
248: Waterfoul_34
249: Omnicron_35
250: Gengar_34

Pham 347070


251: SoSeph_34 + 1
252: Edugator_34
253: Thyatira_34
254: Rando14_35
255: Miryou_34
256: Kratio_33
257: Krueger_35 + 1
258: Bryler_35 + 3
259: Ellie_32 + 1
260: Sunflower1121_34
261: November_33
262: Marshawn_37
263: SirPhilip_34
264: Lavahound_33 + 1
265: Fellerhead_34
266: DarthP_34
267: Ximenita_36
268: Amonnition_34
269: Unicorn_35 + 1
270: Hammy_34
271: Ekdilam_32
272: Yuna_36
273: Shadow1_34
274: TCliff_36
275: Syra333_35
276: Aminay_36
277: Boligan_32
278: Laurel171
279: Gilgamesh_55
280: Yappy_76
281: Jace_84
282: Footloose_65
283: DS6A_36

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 347070 Report

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

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

Pham number 347070 has 528 members, 54 are drafts.

Phages represented in each track:
• Track 1 : MalagasyRose_35
• Track 2 : Nergal_31
• Track 3 : Jash_44, Oliynyk_44, Izzy_44, Eddasa_44, BryanRecycles_44, Rusticus_44
• Track 4 : Dwayne_43, Emaanora_46, SarahRose_43, Hippo_43, TagePhighter_45, OzzyJ_44, Chucky_43
• Track 5 : EnochSoames_46
• Track 6 : Maneekul_43, Ejemplo_42, Yasdnil_43, TuanPN_42
• Track 7 : Asten_43
• Track 8 : Indigo_42, Nerdos_42, Phettuccine_43, Esperer_43, Aaronocolus_43, Leviticus_43, Bovely_43
• Track 9 : Werner_43, BarryBee_46, Dattran_45, Triste_43, Goby_43, Toma_43
• Track 10 : Nanodon_45
• Track 11 : Zemlya_45
• Track 12 : Nabi_44, Rana_44, Lorelei_44
• Track 13 : Ozzie_43, Legacy_43, SunsetPointe_43, Hydra_45
• Track 14 : Unstoppable_43, Caliburn_43
• Track 15 : Brataylor_46
• Track 16 : Whatever_43
• Track 17 : Danzina_45
• Track 18 : Snorlax_43
• Track 19 : Katalie_43, RedBear_44, South40_43
• Track 20 : Sujidade_44, Godpower_44, Lika_43
• Track 21 : BeardedLady_44
• Track 22 : Celeste_44
• Track 23 : Lannister_45
• Track 24 : Caelum_45
• Track 25 : Animus_43, SqueakyClean_43, GirlDinner_43, Janus_44
• Track 26 : TinaBelcher_43, Thestral_45
• Track 27 : Diane_43
• Track 28 : Triumph_46
• Track 29 : Puginator_46
• Track 30 : Omar_46

• Track 31 : R4_45
• Track 32 : Alvy_46, BartholomewSD_46
• Track 33 : Paedore_44, Loofah_45
• Track 34 : Pablito_44
• Track 35 : TrvxScott_42
• Track 36 : Paolo_46
• Track 37 : Nishikigoi_45, Haizum_45
• Track 38 : Zainub_46
• Track 39 : Amethyst_43
• Track 40 : Issmi_45
• Track 41 : Bowden_43
• Track 42 : Hank144_46
• Track 43 : Marav_47
• Track 44 : Axiom_45
• Track 45 : Jevington_46
• Track 46 : ELB20_43
• Track 47 : Tefunt_45
• Track 48 : Superstar_48
• Track 49 : Andris_44
• Track 50 : Daudau_44
• Track 51 : Provolone_44
• Track 52 : phiCAM_41
• Track 53 : Pavo_44, Conan_44, ElGato_44
• Track 54 : Vanseggelen_48
• Track 55 : Speedwell_48
• Track 56 : Celery_46
• Track 57 : Alsaber_44, Dexers_42, Kaine_43, Sudan_43
• Track 58 : ZamZam_43
• Track 59 : Saftant_43
• Track 60 : Yosif_46
• Track 61 : Verabelle_47
• Track 62 : SunkenRoot_43, Amela_43, Verse_43
• Track 63 : Jhitchelle_42
• Track 64 : phiHau3_45
• Track 65 : BroPlease_44
• Track 66 : GreenWeasel_45
• Track 67 : VieEnRose_45
• Track 68 : Urza_45, Itza_45, Celia_45
• Track 69 : Rileysaurus_26
• Track 70 : ATCC29399BC_26, ATCC29399BT_26, P100D_26, P107C_26
• Track 71 : Cota_26
• Track 72 : P106M_26, P106A_26, P106I_26, P106C_27, P106L_26
• Track 73 : PHL071N05_26
• Track 74 : LilBandit_26
• Track 75 : Stormborn_26
• Track 76 : P1.1_26
• Track 77 : PHL067M10_26
• Track 78 : Keiki_26, Pirate_26
• Track 79 : P9.1_26
• Track 80 : PHL114L00_26
• Track 81 : PAS50_27
• Track 82 : Ouroboros_26
• Track 83 : Supernova_26

- Track 84 : Enoki_26
- Track 85 : P100A_26
- Track 86 : Aquarius_26
- Track 87 : DrParker_26
- Track 88 : PHL111M01_26
- Track 89 : P107A_26
- Track 90 : Attacne_26
- Track 91 : Procrass1_26
- Track 92 : SKKY_26
- Track 93 : P100.1_26
- Track 94 : Lauchelly_26
- Track 95 : P101A_26
- Track 96 : PAD20_27
- Track 97 : BruceLethal_26
- Track 98 : MrAK_26
- Track 99 : MEAK_26
- Track 100 : PHL010M04_26
- Track 101 : PHL037M02_26
- Track 102 : PHL060L00_26
- Track 103 : Enochoraptor_26
- Track 104 : P104A_26
- Track 105 : PHL112N00_26
- Track 106 : Wizzo_26
- Track 107 : Solid_26
- Track 108 : P14.4_26
- Track 109 : QueenBey_26
- Track 110 : Kubed_26
- Track 111 : Moyashi_26
- Track 112 : P108C_26
- Track 113 : P105_26
- Track 114 : PHL113M01_26
- Track 115 : Leviosa_26
- Track 116 : P104B_26
- Track 117 : PA6_27
- Track 118 : Banquo_65, TinaLin_65
- Track 119 : Goib_66
- Track 120 : DinoDaryn_66, Huffy_66
- Track 121 : Splinter_66, Vendetta_66
- Track 122 : TZGordon_67
- Track 123 : Gsput1_57
- Track 124 : Dardanus_60
- Track 125 : Schmidt_60
- Track 126 : Catfish_66
- Track 127 : GodonK_75
- Track 128 : Phendrix_73
- Track 129 : Keelan_120
- Track 130 : Fryberger_119
- Track 131 : Ronaldo_120, Guey18_123, Volt_123
- Track 132 : Ziko_121
- Track 133 : Octobien14_112
- Track 134 : Sephiroth_112
- Track 135 : Kudefre_116
- Track 136 : Syleon_117

• Track 137 : Neville_113
• Track 138 : Rabbitrun_115
• Track 139 : LilJank_115
• Track 140 : Trax_115
• Track 141 : Buldak_30
• Track 142 : Squircle_30, Olliecat_30
• Track 143 : Wolfstar_32
• Track 144 : Solimine_32
• Track 145 : Platte_29, Hortus1_29, OlinDD_29
• Track 146 : Hubbs_31, PhillyPhilly_31
• Track 147 : Alleb_30, Pioneer3_29, Tandem_29
• Track 148 : DejaVu_32
• Track 149 : Jacko_33
• Track 150 : Saradis_32, Uterion_35
• Track 151 : Roman_31
• Track 152 : Lupine_30
• Track 153 : Pavlo_30
• Track 154 : Ellewin_159
• Track 155 : KSunshine22_164, Artu_158
• Track 156 : Atuin_162
• Track 157 : LeoJr_171, ReginaGlobina_175
• Track 158 : Talia1610_171
• Track 159 : Patbob_168, GoldenEssence_157, Bloom_174, FloraSnap32_165, FrostedClock_171, Racecar_171, Mimi_170
• Track 160 : Rockabye_172
• Track 161 : BooTeria_159, WaddleDee_155
• Track 162 : Emmetator_162
• Track 163 : Chilliams_167
• Track 164 : Phrampa_162
• Track 165 : Panchaali_161
• Track 166 : SJReid_174
• Track 167 : Stewart25555_159
• Track 168 : DunneganBoMo_159
• Track 169 : Omega_176, Superphikiman_166, Nibley_161, Ariel_168, BronnyJames_163, Courthouse_165, Hannaconda_160, Squint_163, Shaboozey_166, Gonephishing_161
• Track 170 : Phoebus_168, Odette_171, Kalah2_164, Ejimix_158, BAKA_173, Schatzie_162, ThreeRngTarjay_164, Dallas_167, Beem_168, Zelink_160, Optimus_166, Halley_168, Wanda_165, Xiaokay_163, Minerva_167, Duke13_170
• Track 171 : Klein_171, Hughesyang_166, Bagrid_176, EricMillard_165
• Track 172 : JuicyJay_162, Redno2_161, HokkenD_162, Bombitas_154, Dove_154, Yeet_159, NihilNomen_169
• Track 173 : LittleE_175, KashFlow_165, Porcelain_168, Lucky2013_164
• Track 174 : MiaZeal_171
• Track 175 : Nekros_166
• Track 176 : Constella_163, Thibault_151, Marleymoo_154
• Track 177 : Bobby_160
• Track 178 : Hidrated_157
• Track 179 : Pound_161, DmpstrDiver_168
• Track 180 : Rearden_167
• Track 181 : Pisa1_34, Pisa4_34
• Track 182 : Spock_35, Twitch_35, Llorens_35, Homura_35, Joy99_35, Dalmuri_35, Jeckyll_35, Peel_35, Lokum_35, CREW_35, Topper_35, Rosmarinus_35, Inky_35,

BGlluviae_35, Capricorn_35, CallaLilly_35, Jarvi_35
• Track 183 : Hyperbowlee_35, Padfoot_35, Durfee_35, Asayake_35, CaseJules_35, Blizzard_35, BEEST_35, ShiaSurprise_35, Piatt_35, Boiiii_35
• Track 184 : Jayhawk_35, Slimphazie_35, Emerson_35, ActinUp_35, BarrelRoll_35, Padpat_35, HedwigODU_35, Atiba_35, Adephagia_35, Tachez_35, Zabiza_35, Beezoo_35, Rapunzel97_35
• Track 185 : Biglebops_31, Torres_31, Nikao_31, LilPharaoh_31, SgtBeansprout_31, Nutello_31, Mdavu_31, Teejan_31, Trice_31, Enkosi_31, Amelie_31
• Track 186 : Dole_35, Devera_35, LaterM_35, Illumine_35
• Track 187 : Anma_35, Urkel_35, SamuelLPlaqson_35, TiniBug_35, DrHayes_35
• Track 188 : LeMond_35, KiSi_35, Oscar_35
• Track 189 : Tiri_35
• Track 190 : MacKat_35, Clipper_35
• Track 191 : QuincyRose_34, MeaningOfLife_35, Ganymede_36
• Track 192 : Validus_35
• Track 193 : Kheparia_37, Bern_35
• Track 194 : Ageofdapage_35, Bella96_35, Murucutumbu_35, DartGoblin_35
• Track 195 : Scarlett_35
• Track 196 : Niklas_35, Shaobing_35
• Track 197 : McMater_35, Richo_35, Dartin_35, Peanam_35
• Track 198 : Apocalypse_35
• Track 199 : TaiwanKao_36, Megsy_35
• Track 200 : Sulley_35, Angelica_35, Deby_35
• Track 201 : JAWS_35, Mynx_35, Zavala_35, Geraldini_35, Ramen_35, Pokerus_34
• Track 202 : Adonis_35
• Track 203 : TingHuaYa_35
• Track 204 : Anaya_36
• Track 205 : Guanica15_35
• Track 206 : Curiosium_36
• Track 207 : Veliki_35
• Track 208 : Yunkel11_35, Efra2_35
• Track 209 : TruffulaTree_35
• Track 210 : Prithvi_35, LindNT_35, TreyKay_35
• Track 211 : CrimD_35
• Track 212 : LastHope_35
• Track 213 : Chris_35
• Track 214 : Belladonna_35
• Track 215 : CheetoDust_35
• Track 216 : Stinson_36
• Track 217 : Nibb_34
• Track 218 : Lunahalos_35
• Track 219 : MarkPhew_36
• Track 220 : AlishaPH_35
• Track 221 : BaghaKamala_35
• Track 222 : Chavito_35
• Track 223 : YoureAdopted_34
• Track 224 : Doughnut_35, Mufasa_35
• Track 225 : TM4_36
• Track 226 : DismalStressor_34, Marcoliusprime_34, DismalFunk_34
• Track 227 : Findley_34, Strobilo_34
• Track 228 : ZoeJ_34
• Track 229 : Milly_34
• Track 230 : BoostSeason_35

• Track 231 : Keshu_36
• Track 232 : ShedlockHolmes_36
• Track 233 : Pharb_34
• Track 234 : TribleTrouble_34
• Track 235 : Hurricane_36
• Track 236 : Lea83_36
• Track 237 : MacnCheese_36
• Track 238 : Pixie_35, TBond007_35
• Track 239 : Mitti_36, Wintermute_36, Nolwazi_37, Cheetobro_36, Eponine_38, Chancellor_36, Qhanda_37, SamScheppers_36, Slarp_36, Lebo14_36, OmniCritical_36, DanSyl44_39
• Track 240 : YasnayaPolyana_36
• Track 241 : Malthus_37, JF1_36, Ruthiejr_37, Y10_36, Kraw_36, Fionnbharth_36, Y2_36, Juliette_38
• Track 242 : Patt_36, Bobquesha_37, MissDaisy_36, Reptar3000_36
• Track 243 : Taquito_36
• Track 244 : Paola_34, Guillsminger_34, Leston_34
• Track 245 : LilDirt_33, Collard_34, BananenDer11_34, DoubleChamp_34, InvictusManeo_34, ViviJ_33, Agent47_34
• Track 246 : Psycho_35, Larva_35, Neighly_35, Dadosky_35, AlleyCat_35
• Track 247 : Feyre_34, OkiRoe_34
• Track 248 : Waterfoul_34
• Track 249 : Omnicron_35
• Track 250 : Gengar_34
• Track 251 : SoSeph_34, Heftyboy_34
• Track 252 : Edugator_34
• Track 253 : Thyatira_34
• Track 254 : Rando14_35
• Track 255 : Miryou_34
• Track 256 : Kratio_33
• Track 257 : Krueger_35, Tigress9_35
• Track 258 : Bryler_35, Phrank_35, Tierra_35, Cain_35
• Track 259 : Ellie_32, Applecrisp_33
• Track 260 : Sunflower1121_34
• Track 261 : November_33
• Track 262 : Marshawn_37
• Track 263 : SirPhilip_34
• Track 264 : Lavahound_33, Amgine_33
• Track 265 : Fefferhead_34
• Track 266 : DarthP_34
• Track 267 : Ximenita_36
• Track 268 : Amohnition_34
• Track 269 : Unicorn_35, PhelpsODU_35
• Track 270 : Hammy_34
• Track 271 : Ekdilam_32
• Track 272 : Yuna_36
• Track 273 : Shadow1_34
• Track 274 : TClif_36
• Track 275 : Syra333_35
• Track 276 : Aminay_36
• Track 277 : Boilgate_32
• Track 278 : Laure_171
• Track 279 : Gilgamesh_55

• Track 280 : Yappy_76
• Track 281 : Jace_84
• Track 282 : Footloose_65
• Track 283 : DS6A_36

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

The start number called the most often in the published annotations is 48, it was called in 250 of the 474 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ActinUp_35, Adephagia_35, Adonis_35, Agent47_34, Ageofdapage_35, AlleyCat_35, Amelie_31, Amgine_33, Aminay_36, Amohnition_34, Anaya_36, Angelica_35, Anma_35, Apocalypse_35, Applecrisp_33, Ariel_168, Asayake_35, Atiba_35, BAKA_173, BEEST_35, BGlluviae_35, BaghaKamala_35, Bagrid_176, BananenDer11_34, BarrelRoll_35, Beem_168, Beezoo_35, Bella96_35, Belladonna_35, Bern_35, Biglebops_31, Blizzard_35, Bobquesha_37, Boiiii_35, Boilgate_32, Bombitas_154, BoostSeason_35, BronnyJames_163, Bryler_35, CREW_35, Cain_35, CallaLilly_35, Capricorn_35, CaseJules_35, Chancellor_36, Chavito_35, CheetoDust_35, Cheetobro_36, Chris_35, Clipper_35, Collard_34, Constella_163, Courthouse_165, CrimD_35, Curiosium_36, DS6A_36, Dadosky_35, Dallas_167, Dalmuri_35, DanSyl44_39, DartGoblin_35, DarthP_34, Dartin_35, Deby_35, Devera_35, DismalFunk_34, DismalStressor_34, DmpstrDiver_168, Dole_35, DoubleChamp_34, Doughnut_35, Dove_154, DrHayes_35, Duke13_170, Durfee_35, Edugator_34, Efra2_35, Ejimix_158, Ekdilam_32, Ellie_32, Emerson_35, Enkosi_31, Eponine_38, EricMillard_165, Fefferhead_34, Feyre_34, Findley_34, Fionnbharth_36, Ganymede_36, Gengar_34, Geraldini_35, Gonephishing_161, Guanica15_35, Guillsminger_34, Halley_168, Hammy_34, Hannaconda_160, HedwigODU_35, Heftyboy_34, Hidrated_157, HokkenD_162, Homura_35, Hughesyang_166, Hurricane_36, Hyperbowlee_35, Illumine_35, Inky_35, InvictusManeo_34, JAWS_35, JF1_36, Jarvi_35, Jayhawk_35, Jeckyll_35, Joy99_35, JuicyJay_162, Juliette_38, Kalah2_164, KashFlow_165, Keshu_36, Kheparia_37, KiSi_35, Klein_171, Kratio_33, Kraw_36, Krueger_35, Larva_35, LastHope_35, LaterM_35, Lavahound_33, LeMond_35, Lea83_36, Lebo14_36, Leston_34, LilDirt_33, LilPharaoh_31, LindNT_35, LittleE_175, Llorens_35, Lokum_35, Lucky2013_164, Lunahalos_35, MacKat_35, MacnCheese_36, MalagasyRose_35, Malthus_37, Marcoliusprime_34, MarkPhew_36, Marleymoo_154, Marshawn_37, McMater_35, Mdavu_31, MeaningOfLife_35, Megsy_35, MiaZeal_171, Milly_34, Minerva_167, Miryou_34, MissDaisy_36, Mitti_36, Mufasa_35, Murucutumbu_35, Mynx_35, Neighly_35, Nekros_166, Nergal_31, Nibb_34, Nibley_161, NihilNomen_169, Nikao_31, Niklas_35, Nolwazi_37, November_33, Nutello_31, Odette_171, OkiRoe_34, Omega_176, OmniCritical_36, Omnicron_35, Optimus_166, Oscar_35, Padfoot_35, Padpat_35, Paola_34, Patt_36, Peanam_35, Peel_35, Pharb_34, PhelpsODU_35, Phoebus_168, Phrank_35, Piatt_35, Pisa1_34, Pisa4_34, Pixie_35, Pokerus_34, Porcelain_168, Pound_161, Prithvi_35, Psycho_35, Qhanda_37, QuincyRose_34, Ramen_35, Rando14_35, Rapunzel97_35, Rearden_167, Redno2_161, Reptar3000_36, Richo_35, Rosmarinus_35, Ruthiejr_37, SamScheppers_36, SamuelLPlaqson_35, Scarlett_35, Schatzie_162, SgtBeansprout_31, Shaboozey_166, Shadow1_34, Shaobing_35, ShedlockHolmes_36, ShiaSurprise_35, SirPhilip_34, Slarp_36, Slimphazie_35,

SoSeph_34, Spock_35, Squint_163, Stinson_36, Strobilo_34, Sulley_35, Sunflower1121_34, Superphikiman_166, Syra333_35, TBond007_35, TClif_36, TM4_36, Tachez_35, TaiwanKao_36, Taquito_36, Teejan_31, Thibault_151, ThreeRngTarjay_164, Thyatira_34, Tierra_35, Tigress9_35, TingHuaYa_35, TiniBug_35, Tiri_35, Topper_35, Torres_31, TreyKay_35, TribleTrouble_34, Trice_31, TruffulaTree_35, Twitch_35, Unicorn_35, Urkel_35, Validus_35, Veliki_35, ViviJ_33, Wanda_165, Waterfoul_34, Wintermute_36, Xiaokay_163, Ximenita_36, Y10_36, Y2_36, YasnayaPolyana_36, Yeet_159, YoureAdopted_34, Yuna_36, Yunkel11_35, Zabiza_35, Zavala_35, Zelink_160, ZoeJ_34,

Genes that have the "Most Annotated" start but do not call it:
• AlishaPH_35,

Genes that do not have the "Most Annotated" start:
• ATCC29399BC_26, ATCC29399BT_26, Aaronocolus_43, Alleb_30, Alsaber_44, Alvy_46, Amela_43, Amethyst_43, Andris_44, Animus_43, Aquarius_26, Artu_158, Asten_43, Attacne_26, Atuin_162, Axiom_45, Banquo_65, BarryBee_46, BartholomewSD_46, BeardedLady_44, Bloom_174, Bobby_160, BooTeria_159, Bovely_43, Bowden_43, Brataylor_46, BroPlease_44, BruceLethal_26, BryanRecycles_44, Buldak_30, Caelum_45, Caliburn_43, Catfish_66, Celery_46, Celeste_44, Celia_45, Chilliams_167, Chucky_43, Conan_44, Cota_26, Danzina_45, Dardanus_60, Dattran_45, Daudau_44, DejaVu_32, Dexers_42, Diane_43, DinoDaryn_66, DrParker_26, DunneganBoMo_159, Dwayne_43, ELB20_43, Eddasa_44, Ejemplo_42, ElGato_44, Ellewin_159, Emaanora_46, Emmetator_162, EnochSoames_46, Enochoraptor_26, Enoki_26, Esperer_43, FloraSnap32_165, Footloose_65, FrostedClock_171, Fryberger_119, Gilgamesh_55, GirlDinner_43, Goby_43, GodonK_75, Godpower_44, Goib_66, GoldenEssence_157, GreenWeasel_45, Gsput1_57, Guey18_123, Haizum_45, Hank144_46, Hippo_43, Hortus1_29, Hubbs_31, Huffy_66, Hydra_45, Indigo_42, Issmi_45, Itza_45, Izzy_44, Jace_84, Jacko_33, Janus_44, Jash_44, Jevington_46, Jhitchelle_42, KSunshine22_164, Kaine_43, Katalie_43, Keelan_120, Keiki_26, Kubed_26, Kudefre_116, Lannister_45, Lauchelly_26, Laure_171, Legacy_43, LeoJr_171, Leviosa_26, Leviticus_43, Lika_43, LilBandit_26, LilJank_115, Loofah_45, Lorelei_44, Lupine_30, MEAK_26, Maneekul_43, Marav_47, Mimi_170, Moyashi_26, MrAK_26, Nabi_44, Nanodon_45, Nerdos_42, Neville_113, Nishikigoi_45, Octobien14_112, OlinDD_29, Oliynyk_44, Olliecat_30, Omar_46, Ouroboros_26, Ozzie_43, OzzyJ_44, P1.1_26, P100.1_26, P100A_26, P100D_26, P101A_26, P104A_26, P104B_26, P105_26, P106A_26, P106C_27, P106I_26, P106L_26, P106M_26, P107A_26, P107C_26, P108C_26, P14.4_26, P9.1_26, PA6_27, PAD20_27, PAS50_27, PHL010M04_26, PHL037M02_26, PHL060L00_26, PHL067M10_26, PHL071N05_26, PHL111M01_26, PHL112N00_26, PHL113M01_26, PHL114L00_26, Pablito_44, Paedore_44, Panchaali_161, Paolo_46, Patbob_168, Pavlo_30, Pavo_44, Phendrix_73, Phettuccine_43, PhillyPhilly_31, Phrampa_162, Pioneer3_29, Pirate_26, Platte_29, Procrass1_26, Provolone_44, Puginator_46, QueenBey_26, R4_45, Rabbitrun_115, Racecar_171, Rana_44, RedBear_44, ReginaGlobina_175, Rileysaurus_26, Rockabye_172, Roman_31, Ronaldo_120, Rusticus_44, SJReid_174, SKKY_26, Saftant_43, Saradis_32, SarahRose_43, Schmidt_60, Sephiroth_112, Snorlax_43, Solid_26, Solimine_32, South40_43, Speedwell_48, Splinter_66, SqueakyClean_43, Squircle_30, Stewart25555_159, Stormborn_26, Sudan_43, Sujidade_44, SunkenRoot_43, SunsetPointe_43, Supernova_26, Superstar_48, Syleon_117, TZGordon_67, TagePhighter_45, Talia1610_171, Tandem_29, Tefunt_45, Thestral_45, TinaBelcher_43, TinaLin_65, Toma_43, Trax_115, Triste_43, Triumph_46, TrvxScott_42, TuanPN_42,

Unstoppable_43, Urza_45, Uterion_35, Vanseggelen_48, Vendetta_66, Verabelle_47, Verse_43, VieEnRose_45, Volt_123, WaddleDee_155, Werner_43, Whatever_43, Wizzo_26, Wolfstar_32, Yappy_76, Yasdnil_43, Yosif_46, Zainub_46, ZamZam_43, Zemlya_45, Ziko_121, phiCAM_41, phiHau3_45,

Summary by start number:

Start 11:
• Found in 15 of 528 (2.8%) of genes in pham
• No Manual Annotations of this start.
• Called 6.7% of time when present
• Phage (with cluster) where this start called: Emmetator_162 (FC),

Start 12:
• Found in 15 of 528 (2.8%) of genes in pham
• Manual Annotations of this start: 9 of 474
• Called 86.7% of time when present
• Phage (with cluster) where this start called: Artu_158 (FC), Atuin_162 (FC), BooTeria_159 (FC), Chilliams_167 (FC), DunneganBoMo_159 (FC), Ellewin_159 (FC), KSunshine22_164 (FC), LeoJr_171 (FC), Panchaali_161 (FC), ReginaGlobina_175 (FC), Rockabye_172 (FC), SJReid_174 (FC), WaddleDee_155 (FC),

Start 15:
• Found in 1 of 528 (0.2%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Stewart25555_159 (FC),

Start 21:
• Found in 10 of 528 (1.9%) of genes in pham
• Manual Annotations of this start: 8 of 474
• Called 90.0% of time when present
• Phage (with cluster) where this start called: Bloom_174 (FC), FloraSnap32_165 (FC), FrostedClock_171 (FC), GoldenEssence_157 (FC), Mimi_170 (FC), Patbob_168 (FC), Phrampa_162 (FC), Racecar_171 (FC), Talia1610_171 (FC),

Start 24:
• Found in 3 of 528 (0.6%) of genes in pham
• Manual Annotations of this start: 3 of 474
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Buldak_30 (EB), Olliecat_30 (EB), Squircle_30 (EB),

Start 29:
• Found in 11 of 528 (2.1%) of genes in pham
• Manual Annotations of this start: 1 of 474
• Called 9.1% of time when present
• Phage (with cluster) where this start called: Yappy_76 (singleton),

Start 39:
• Found in 35 of 528 (6.6%) of genes in pham
• Manual Annotations of this start: 1 of 474

• Called 2.9% of time when present
• Phage (with cluster) where this start called: AlishaPH_35 (K1),

Start 46:
• Found in 2 of 528 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 474
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Phendrix_73 (DK),

Start 48:
• Found in 276 of 528 (52.3%) of genes in pham
• Manual Annotations of this start: 250 of 474
• Called 99.6% of time when present
• Phage (with cluster) where this start called: ActinUp_35 (K1), Adephagia_35 (K1), Adonis_35 (K1), Agent47_34 (K5), Ageofdapage_35 (K1), AlleyCat_35 (K5), Amelie_31 (K1), Amgine_33 (K6), Aminay_36 (K7), Amohnition_34 (K6), Anaya_36 (K1), Angelica_35 (K1), Anma_35 (K1), Apocalypse_35 (K1), Applecrisp_33 (K6), Ariel_168 (J), Asayake_35 (K1), Atiba_35 (K1), BAKA_173 (J), BEEST_35 (K1), BGlluviae_35 (K1), BaghaKamala_35 (K1), Bagrid_176 (J), BananenDer11_34 (K5), BarrelRoll_35 (K1), Beem_168 (J), Beezoo_35 (K1), Bella96_35 (K1), Belladonna_35 (K1), Bern_35 (K1), Biglebops_31 (K1), Blizzard_35 (K1), Bobquesha_37 (K4), Boiiii_35 (K1), Boilgate_32 (K8), Bombitas_154 (J), BoostSeason_35 (K2), BronnyJames_163 (J), Bryler_35 (K6), CREW_35 (K1), Cain_35 (K6), CallaLilly_35 (K1), Capricorn_35 (K1), CaseJules_35 (K1), Chancellor_36 (K4), Chavito_35 (K1), CheetoDust_35 (K1), Cheetobro_36 (K4), Chris_35 (K1), Clipper_35 (K1), Collard_34 (K5), Constella_163 (J), Courthouse_165 (J), CrimD_35 (K1), Curiosium_36 (K1), DS6A_36 (singleton), Dadosky_35 (K5), Dallas_167 (J), Dalmuri_35 (K1), DanSyl44_39 (K4), DartGoblin_35 (K1), DarthP_34 (K6), Dartin_35 (K1), Deby_35 (K1), Devera_35 (K1), DismalFunk_34 (K2), DismalStressor_34 (K2), DmpstrDiver_168 (J), Dole_35 (K1), DoubleChamp_34 (K5), Doughnut_35 (K2), Dove_154 (J), DrHayes_35 (K1), Duke13_170 (J), Durfee_35 (K1), Edugator_34 (K5), Efra2_35 (K1), Ejimix_158 (J), Ekdilam_32 (K6), Ellie_32 (K6), Emerson_35 (K1), Enkosi_31 (K1), Eponine_38 (K4), EricMillard_165 (J), Fefferhead_34 (K6), Feyre_34 (K5), Findley_34 (K2), Fionnbharth_36 (K4), Ganymede_36 (K1), Gengar_34 (K5), Geraldini_35 (K1), Gonephishing_161 (J), Guanica15_35 (K1), Guillsminger_34 (K5), Halley_168 (J), Hammy_34 (K6), Hannaconda_160 (J), HedwigODU_35 (K1), Heftyboy_34 (K5), Hidrated_157 (J), HokkenD_162 (J), Homura_35 (K1), Hughesyang_166 (J), Hurricane_36 (K3), Hyperbowlee_35 (K1), Illumine_35 (K1), Inky_35 (K1), InvictusManeo_34 (K5), JAWS_35 (K1), JF1_36 (K4), Jarvi_35 (K1), Jayhawk_35 (K1), Jeckyll_35 (K1), Joy99_35 (K1), JuicyJay_162 (J), Juliette_38 (K4), Kalah2_164 (J), KashFlow_165 (J), Keshu_36 (K3), Kheparia_37 (K1), KiSi_35 (K1), Klein_171 (J), Kratio_33 (K5), Kraw_36 (K4), Krueger_35 (K6), Larva_35 (K5), LastHope_35 (K1), LaterM_35 (K1), Lavahound_33 (K6), LeMond_35 (K1), Lea83_36 (K3), Lebo14_36 (K4), Leston_34 (K5), LilDirt_33 (K5), LilPharaoh_31 (K1), LindNT_35 (K1), LittleE_175 (J), Llorens_35 (K1), Lokum_35 (K1), Lucky2013_164 (J), Lunahalos_35 (K1), MacKat_35 (K1), MacnCheese_36 (K3), MalagasyRose_35 (AG), Malthus_37 (K4), Marcoliusprime_34 (K2), MarkPhew_36 (K1), Marleymoo_154 (J), Marshawn_37 (K6), McMater_35 (K1), Mdavu_31 (K1), MeaningOfLife_35 (K1), Megsy_35 (K1), MiaZeal_171 (J), Milly_34 (K2), Minerva_167 (J), Miryou_34 (K5), MissDaisy_36 (K4), Mitti_36 (K4), Mufasa_35 (K2), Murucutumbu_35 (K1), Mynx_35 (K1), Neighly_35 (K3), Nekros_166 (J), Nergal_31 (AG), Nibb_34 (K1), Nibley_161 (J), NihilNomen_169 (J), Nikao_31 (K1), Niklas_35 (K1), Nolwazi_37 (K4), November_33 (K6), Nutello_31 (K1), Odette_171 (J), OkiRoe_34 (K5), Omega_176

(J), OmniCritical_36 (K4), Omnicron_35 (K5), Optimus_166 (J), Oscar_35 (K1), Padfoot_35 (K1), Padpat_35 (K1), Paola_34 (K5), Patt_36 (K4), Peanam_35 (K1), Peel_35 (K1), Pharb_34 (K3), PhelpsODU_35 (K6), Phoebus_168 (J), Phrank_35 (K6), Piatt_35 (K1), Pisa1_34 (K1), Pisa4_34 (K1), Pixie_35 (K3), Pokerus_34 (K1), Porcelain_168 (J), Pound_161 (J), Prithvi_35 (K1), Psycho_35 (K5), Qhanda_37 (K4), QuincyRose_34 (K1), Ramen_35 (K1), Rando14_35 (K5), Rapunzel97_35 (K1), Rearden_167 (J), Redno2_161 (J), Reptar3000_36 (K4), Richo_35 (K1), Rosmarinus_35 (K1), Ruthiejr_37 (K4), SamScheppers_36 (K4), SamuelLPlaqson_35 (K1), Scarlett_35 (K1), Schatzie_162 (J), SgtBeansprout_31 (K1), Shaboozey_166 (J), Shadow1_34 (K6), Shaobing_35 (K1), ShedlockHolmes_36 (K3), ShiaSurprise_35 (K1), SirPhilip_34 (K6), Slarp_36 (K4), Slimphazie_35 (K1), SoSeph_34 (K5), Spock_35 (K1), Squint_163 (J), Stinson_36 (K1), Strobilo_34 (K2), Sulley_35 (K1), Sunflower1121_34 (K6), Superphikiman_166 (J), Syra333_35 (K6), TBond007_35 (K3), TClif_36 (K6), TM4_36 (K2), Tachez_35 (K1), TaiwanKao_36 (K1), Taquito_36 (K4), Teejan_31 (K1), Thibault_151 (J), ThreeRngTarjay_164 (J), Thyatira_34 (K5), Tierra_35 (K6), Tigress9_35 (K6), TingHuaYa_35 (K1), TiniBug_35 (K1), Tiri_35 (K1), Topper_35 (K1), Torres_31 (K1), TreyKay_35 (K1), TribleTrouble_34 (K3), Trice_31 (K1), TruffulaTree_35 (K1), Twitch_35 (K1), Unicorn_35 (K6), Urkel_35 (K1), Validus_35 (K1), Veliki_35 (K1), ViviJ_33 (K5), Wanda_165 (J), Waterfoul_34 (K5), Wintermute_36 (K4), Xiaokay_163 (J), Ximenita_36 (K6), Y10_36 (K4), Y2_36 (K4), YasnayaPolyana_36 (K4), Yeet_159 (J), YoureAdopted_34 (K1), Yuna_36 (K6), Yunkel11_35 (K1), Zabiza_35 (K1), Zavala_35 (K1), Zelink_160 (J), ZoeJ_34 (K2),

Start 49:
• Found in 12 of 528 (2.3%) of genes in pham
• Manual Annotations of this start: 1 of 474
• Called 8.3% of time when present
• Phage (with cluster) where this start called: Roman_31 (ED1),

Start 55:
• Found in 2 of 528 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 474
• Called 50.0% of time when present
• Phage (with cluster) where this start called: GodonK_75 (DK),

Start 56:
• Found in 3 of 528 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 474
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Gilgamesh_55 (singleton),

Start 59:
• Found in 112 of 528 (21.2%) of genes in pham
• Manual Annotations of this start: 106 of 474
• Called 99.1% of time when present
• Phage (with cluster) where this start called: Aaronocolus_43 (BD1), Alsaber_44 (BD3), Alvy_46 (BD2), Amela_43 (BD3), Amethyst_43 (BD2), Andris_44 (BD2), Animus_43 (BD2), Asten_43 (BD1), Axiom_45 (BD2), BarryBee_46 (BD1), BartholomewSD_46 (BD2), BeardedLady_44 (BD1), Bovely_43 (BD1), Bowden_43 (BD2), Brataylor_46 (BD1), BroPlease_44 (BD4), BryanRecycles_44 (BD1), Caelum_45 (BD2), Caliburn_43 (BD1), Celery_46 (BD3), Celeste_44 (BD1), Chucky_43 (BD1), Conan_44 (BD3), Danzina_45 (BD1), Dattran_45 (BD1),

Daudau_44 (BD2), Dexers_42 (BD3), Diane_43 (BD2), Dwayne_43 (BD1), ELB20_43 (BD2), Eddasa_44 (BD1), Ejemplo_42 (BD1), ElGato_44 (BD3), Emaanora_46 (BD1), EnochSoames_46 (BD1), Esperer_43 (BD1), GirlDinner_43 (BD2), Goby_43 (BD1), Godpower_44 (BD1), GreenWeasel_45 (BD4), Haizum_45 (BD2), Hank144_46 (BD2), Hippo_43 (BD1), Hydra_45 (BD1), Indigo_42 (BD1), Issmi_45 (BD2), Izzy_44 (BD1), Janus_44 (BD2), Jash_44 (BD1), Jevington_46 (BD2), Jhitchelle_42 (BD3), Kaine_43 (BD3), Katalie_43 (BD1), Lannister_45 (BD1), Legacy_43 (BD1), Leviticus_43 (BD1), Lika_43 (BD1), Loofah_45 (BD2), Lorelei_44 (BD1), Maneekul_43 (BD1), Marav_47 (BD2), Nabi_44 (BD1), Nanodon_45 (BD1), Nerdos_42 (BD1), Nishikigoi_45 (BD2), Oliynyk_44 (BD1), Omar_46 (BD2), Ozzie_43 (BD1), OzzyJ_44 (BD1), Pablito_44 (BD2), Paedore_44 (BD2), Paolo_46 (BD2), Pavo_44 (BD3), Phettuccine_43 (BD1), Provolone_44 (BD3), Puginator_46 (BD2), R4_45 (BD2), Rana_44 (BD1), RedBear_44 (BD1), Rusticus_44 (BD1), Saftant_43 (BD3), SarahRose_43 (BD1), Snorlax_43 (BD1), South40_43 (BD1), Speedwell_48 (BD3), SqueakyClean_43 (BD2), Sudan_43 (BD3), Sujidade_44 (BD1), SunkenRoot_43 (BD3), SunsetPointe_43 (BD1), Superstar_48 (BD2), TagePhighter_45 (BD1), Tefunt_45 (BD2), Thestral_45 (BD2), TinaBelcher_43 (BD2), Toma_43 (BD1), Triste_43 (BD1), Triumph_46 (BD2), TrvxScott_42 (BD2), TuanPN_42 (BD1), Unstoppable_43 (BD1), Vanseggelen_48 (BD3), Verabelle_47 (BD3), Verse_43 (BD3), Werner_43 (BD1), Whatever_43 (BD1), Yasdnil_43 (BD1), Zainub_46 (BD2), ZamZam_43 (BD3), Zemlya_45 (BD1), phiHau3_45 (BD4),

Start 60:
• Found in 16 of 528 (3.0%) of genes in pham
• Manual Annotations of this start: 5 of 474
• Called 31.2% of time when present
• Phage (with cluster) where this start called: Celia_45 (BD6), Itza_45 (BD6), Urza_45 (BD6), VieEnRose_45 (BD6), Yosif_46 (BD3),

Start 62:
• Found in 2 of 528 (0.4%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Laure_171 (UNK),

Start 66:
• Found in 18 of 528 (3.4%) of genes in pham
• Manual Annotations of this start: 1 of 474
• Called 5.6% of time when present
• Phage (with cluster) where this start called: Footloose_65 (singleton),

Start 68:
• Found in 1 of 528 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 474
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bobby_160 (J),

Start 72:
• Found in 17 of 528 (3.2%) of genes in pham
• Manual Annotations of this start: 14 of 474
• Called 94.1% of time when present
• Phage (with cluster) where this start called: Alleb_30 (ED1), DejaVu_32 (ED1), Hortus1_29 (ED1), Hubbs_31 (ED1), Jacko_33 (ED1), Lupine_30 (ED1), OlinDD_29

(ED1), Pavlo_30 (ED1), PhillyPhilly_31 (ED1), Pioneer3_29 (ED1), Platte_29 (ED1), Saradis_32 (ED1), Solimine_32 (ED1), Tandem_29 (ED1), Uterion_35 (ED1), Wolfstar_32 (ED),

Start 75:
• Found in 8 of 528 (1.5%) of genes in pham
• Manual Annotations of this start: 8 of 474
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kudefre_116 (DU1), LilJank_115 (DU2), Neville_113 (DU2), Octobien14_112 (DU1), Rabbitrun_115 (DU2), Sephiroth_112 (DU1), Syleon_117 (DU1), Trax_115 (DU2),

Start 81:
• Found in 1 of 528 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 474
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Jace_84 (singleton),

Start 82:
• Found in 6 of 528 (1.1%) of genes in pham
• Manual Annotations of this start: 6 of 474
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Fryberger_119 (DP), Guey18_123 (DP), Keelan_120 (DP), Ronaldo_120 (DP), Volt_123 (DP), Ziko_121 (DP),

Start 85:
• Found in 18 of 528 (3.4%) of genes in pham
• Manual Annotations of this start: 11 of 474
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Banquo_65 (CU1), Catfish_66 (CU5), Dardanus_60 (CU3), DinoDaryn_66 (CU1), Goib_66 (CU1), Gsput1_57 (CU2), Huffy_66 (CU1), Schmidt_60 (CU4), Splinter_66 (CU1), TZGordon_67 (CU1), TinaLin_65 (CU1), Vendetta_66 (CU1),

Start 107:
• Found in 59 of 528 (11.2%) of genes in pham
• Manual Annotations of this start: 45 of 474
• Called 96.6% of time when present
• Phage (with cluster) where this start called: ATCC29399BC_26 (BU), ATCC29399BT_26 (BU), Aquarius_26 (BU), Attacne_26 (BU), BruceLethal_26 (BU), Cota_26 (BU), DrParker_26 (BU), Enochoraptor_26 (BU), Enoki_26 (BU), Keiki_26 (BU), Kubed_26 (BU), Lauchelly_26 (BU), Leviosa_26 (BU), LilBandit_26 (BU), MEAK_26 (BU), Moyashi_26 (BU), MrAK_26 (BU), Ouroboros_26 (BU), P1.1_26 (BU), P100.1_26 (BU), P100A_26 (BU), P100D_26 (BU), P101A_26 (BU), P104A_26 (BU), P104B_26 (BU), P105_26 (BU), P106A_26 (BU), P106C_27 (BU), P106I_26 (BU), P106L_26 (BU), P106M_26 (BU), P107A_26 (BU), P107C_26 (BU), P108C_26 (BU), P14.4_26 (BU), P9.1_26 (BU), PA6_27 (BU), PAD20_27 (BU), PAS50_27 (BU), PHL010M04_26 (BU), PHL037M02_26 (BU), PHL060L00_26 (BU), PHL067M10_26 (BU), PHL071N05_26 (BU), PHL111M01_26 (BU), PHL112N00_26 (BU), PHL113M01_26 (BU), PHL114L00_26 (BU), Pirate_26 (BU), Procrass1_26 (BU), QueenBey_26 (BU), Rileysaurus_26 (BU), SKKY_26 (BU), Solid_26 (BU), Stormborn_26 (BU), Supernova_26 (BU), Wizzo_26 (BU),

Start 150:
• Found in 117 of 528 (22.2%) of genes in pham
• No Manual Annotations of this start.
• Called 0.9% of time when present
• Phage (with cluster) where this start called: phiCAM_41 (BD3),

Summary by clusters:

There are 31 clusters represented in this pham: singleton, DK, K3, BU, K1, ED1, K7, K6, K5, K4, K8, DP, CU5, CU4, CU3, CU2, CU1, BD4, BD6, BD1, BD3, BD2, DU1, DU2, AG, ED, J, EB, UNK, K2, FC,

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

Info for manual annotations of cluster BD1:
•Start number 59 was manually annotated 55 times for cluster BD1.

Info for manual annotations of cluster BD2:
•Start number 59 was manually annotated 33 times for cluster BD2.

Info for manual annotations of cluster BD3:
•Start number 59 was manually annotated 15 times for cluster BD3.
•Start number 60 was manually annotated 1 time for cluster BD3.

Info for manual annotations of cluster BD4:
•Start number 59 was manually annotated 3 times for cluster BD4.

Info for manual annotations of cluster BD6:
•Start number 60 was manually annotated 4 times for cluster BD6.

Info for manual annotations of cluster BU:
•Start number 107 was manually annotated 45 times for cluster BU.

Info for manual annotations of cluster CU1:
•Start number 85 was manually annotated 8 times for cluster CU1.

Info for manual annotations of cluster CU3:
•Start number 85 was manually annotated 1 time for cluster CU3.

Info for manual annotations of cluster CU4:
•Start number 85 was manually annotated 1 time for cluster CU4.

Info for manual annotations of cluster CU5:
•Start number 85 was manually annotated 1 time for cluster CU5.

Info for manual annotations of cluster DK:
•Start number 46 was manually annotated 1 time for cluster DK.
•Start number 55 was manually annotated 1 time for cluster DK.

Info for manual annotations of cluster DP:
•Start number 82 was manually annotated 6 times for cluster DP.

Info for manual annotations of cluster DU1:
•Start number 75 was manually annotated 4 times for cluster DU1.

Info for manual annotations of cluster DU2:
•Start number 75 was manually annotated 4 times for cluster DU2.

Info for manual annotations of cluster EB:
•Start number 24 was manually annotated 3 times for cluster EB.

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

Info for manual annotations of cluster ED1:
•Start number 49 was manually annotated 1 time for cluster ED1.
•Start number 72 was manually annotated 13 times for cluster ED1.

Info for manual annotations of cluster FC:
•Start number 12 was manually annotated 9 times for cluster FC.
•Start number 21 was manually annotated 8 times for cluster FC.

Info for manual annotations of cluster J:
•Start number 48 was manually annotated 40 times for cluster J.
•Start number 68 was manually annotated 1 time for cluster J.

Info for manual annotations of cluster K1:
•Start number 39 was manually annotated 1 time for cluster K1.
•Start number 48 was manually annotated 112 times for cluster K1.

Info for manual annotations of cluster K2:
•Start number 48 was manually annotated 11 times for cluster K2.

Info for manual annotations of cluster K3:
•Start number 48 was manually annotated 9 times for cluster K3.

Info for manual annotations of cluster K4:
•Start number 48 was manually annotated 22 times for cluster K4.

Info for manual annotations of cluster K5:
•Start number 48 was manually annotated 25 times for cluster K5.

Info for manual annotations of cluster K6:
•Start number 48 was manually annotated 26 times for cluster K6.

Info for manual annotations of cluster K7:
•Start number 48 was manually annotated 1 time for cluster K7.

Info for manual annotations of cluster K8:
•Start number 48 was manually annotated 1 time for cluster K8.

Gene Information:

Gene: ATCC29399BC_26 Start: 19311, Stop: 18265, Start Num: 107
Candidate Starts for ATCC29399BC_26:
(63, 19422), (Start: 107 @19311 has 45 MA's), (236, 18876), (239, 18861), (247, 18819), (253, 18792), (255, 18786), (256, 18783), (260, 18768), (280, 18663), (298, 18576), (303, 18558), (323, 18447), (338, 18378), (345, 18318),

Gene: ATCC29399BT_26 Start: 19311, Stop: 18265, Start Num: 107
Candidate Starts for ATCC29399BT_26:
(63, 19422), (Start: 107 @19311 has 45 MA's), (236, 18876), (239, 18861), (247, 18819), (253, 18792), (255, 18786), (256, 18783), (260, 18768), (280, 18663), (298, 18576), (303, 18558), (323, 18447), (338, 18378), (345, 18318),

Gene: Aaronocolus_43 Start: 29213, Stop: 30403, Start Num: 59
Candidate Starts for Aaronocolus_43:
(38, 29150), (Start: 59 @29213 has 106 MA's), (86, 29261), (109, 29327), (139, 29414), (150, 29447), (202, 29630), (222, 29720), (254, 29861), (255, 29864), (259, 29876), (268, 29912), (272, 29921), (274, 29945), (278, 29966), (300, 30089), (301, 30092), (319, 30200), (338, 30290), (360, 30392),

Gene: ActinUp_35 Start: 28362, Stop: 29570, Start Num: 48
Candidate Starts for ActinUp_35:
(Start: 48 @28362 has 250 MA's), (93, 28464), (130, 28575), (183, 28752), (198, 28794), (211, 28869), (231, 28935), (234, 28947), (239, 28974), (255, 29049), (266, 29088), (272, 29103), (284, 29184), (285, 29196), (286, 29199), (289, 29214), (293, 29232), (295, 29238), (300, 29262), (302, 29268), (304, 29286), (306, 29295), (307, 29298), (314, 29355), (321, 29385), (322, 29388), (329, 29424), (336, 29445), (355, 29547), (361, 29562),

Gene: Adephagia_35 Start: 28359, Stop: 29567, Start Num: 48
Candidate Starts for Adephagia_35:
(Start: 48 @28359 has 250 MA's), (93, 28461), (130, 28572), (183, 28749), (198, 28791), (211, 28866), (231, 28932), (234, 28944), (239, 28971), (255, 29046), (266, 29085), (272, 29100), (284, 29181), (285, 29193), (286, 29196), (289, 29211), (293, 29229), (295, 29235), (300, 29259), (302, 29265), (304, 29283), (306, 29292), (307, 29295), (314, 29352), (321, 29382), (322, 29385), (329, 29421), (336, 29442), (355, 29544), (361, 29559),

Gene: Adonis_35 Start: 28374, Stop: 29582, Start Num: 48
Candidate Starts for Adonis_35:
(Start: 48 @28374 has 250 MA's), (93, 28476), (108, 28527), (130, 28587), (175, 28743), (198, 28806), (211, 28881), (234, 28959), (255, 29061), (266, 29100), (272, 29115), (284, 29196), (285, 29208), (286, 29211), (289, 29226), (293, 29244), (300, 29274), (302, 29280), (304, 29298), (306, 29307), (307, 29310), (314, 29367), (321, 29397), (329, 29436), (336, 29457), (355, 29559), (361, 29574),

Gene: Agent47_34 Start: 28998, Stop: 30212, Start Num: 48
Candidate Starts for Agent47_34:
(Start: 48 @28998 has 250 MA's), (54, 29016), (136, 29229), (149, 29277), (198, 29436), (203, 29460), (214, 29520), (223, 29550), (227, 29559), (231, 29574), (234, 29586), (255, 29691), (256, 29694), (261, 29712), (272, 29745), (276, 29778), (284, 29826), (285, 29838), (293, 29874), (300, 29904), (302, 29910), (305, 29931), (306, 29937), (307, 29940), (314, 29997), (321, 30027), (322, 30030), (345, 30162), (349, 30174), (355, 30189), (359, 30198),

Gene: Ageofdapage_35 Start: 28320, Stop: 29528, Start Num: 48
Candidate Starts for Ageofdapage_35:

(Start: 48 @28320 has 250 MA's), (93, 28422), (130, 28533), (136, 28551), (183, 28710), (198, 28752), (211, 28827), (231, 28893), (234, 28905), (239, 28932), (255, 29007), (266, 29046), (271, 29058), (272, 29061), (284, 29142), (285, 29154), (286, 29157), (289, 29172), (293, 29190), (295, 29196), (300, 29220), (302, 29226), (304, 29244), (306, 29253), (307, 29256), (314, 29313), (321, 29343), (329, 29382), (355, 29505), (361, 29520),

Gene: AlishaPH_35 Start: 28328, Stop: 29560, Start Num: 39
Candidate Starts for AlishaPH_35:
(Start: 39 @28328 has 1 MA's), (Start: 48 @28352 has 250 MA's), (93, 28454), (130, 28565), (183, 28742), (198, 28784), (211, 28859), (224, 28901), (231, 28925), (234, 28937), (239, 28964), (255, 29039), (266, 29078), (272, 29093), (284, 29174), (285, 29186), (286, 29189), (289, 29204), (293, 29222), (295, 29228), (300, 29252), (302, 29258), (304, 29276), (306, 29285), (307, 29288), (314, 29345), (321, 29375), (329, 29414), (336, 29435), (355, 29537), (361, 29552),

Gene: Alleb_30 Start: 9569, Stop: 10762, Start Num: 72
Candidate Starts for Alleb_30:
(Start: 72 @9569 has 14 MA's), (124, 9734), (144, 9776), (151, 9806), (201, 9980), (223, 10088), (237, 10142), (251, 10211), (272, 10283), (279, 10337), (294, 10421), (297, 10436), (300, 10448), (316, 10553), (352, 10736), (361, 10757),

Gene: AlleyCat_35 Start: 28929, Stop: 30143, Start Num: 48
Candidate Starts for AlleyCat_35:
(45, 28923), (Start: 48 @28929 has 250 MA's), (54, 28947), (136, 29160), (149, 29208), (171, 29280), (198, 29367), (203, 29391), (214, 29451), (223, 29481), (227, 29490), (231, 29505), (234, 29517), (251, 29607), (252, 29610), (255, 29622), (256, 29625), (261, 29643), (272, 29676), (276, 29709), (284, 29757), (285, 29769), (293, 29805), (300, 29835), (302, 29841), (306, 29868), (307, 29871), (314, 29928), (321, 29958), (345, 30093), (349, 30105), (355, 30120), (359, 30129),

Gene: Alsaber_44 Start: 30909, Stop: 32096, Start Num: 59
Candidate Starts for Alsaber_44:
(Start: 59 @30909 has 106 MA's), (104, 31005), (109, 31026), (110, 31032), (117, 31053), (150, 31146), (155, 31167), (190, 31269), (192, 31275), (202, 31323), (244, 31515), (254, 31554), (255, 31557), (263, 31587), (268, 31605), (278, 31659), (284, 31704), (295, 31758), (338, 31983), (360, 32085),

Gene: Alvy_46 Start: 30775, Stop: 31977, Start Num: 59
Candidate Starts for Alvy_46:
(Start: 59 @30775 has 106 MA's), (124, 30946), (150, 31015), (155, 31036), (188, 31138), (191, 31147), (202, 31201), (225, 31300), (254, 31432), (255, 31435), (263, 31465), (268, 31483), (295, 31636), (319, 31771), (337, 31852), (338, 31861), (348, 31930), (354, 31948), (357, 31954),

Gene: Amela_43 Start: 31710, Stop: 32897, Start Num: 59
Candidate Starts for Amela_43:
(Start: 59 @31710 has 106 MA's), (104, 31806), (109, 31827), (110, 31833), (117, 31854), (150, 31947), (155, 31968), (165, 32004), (190, 32070), (192, 32076), (202, 32124), (207, 32154), (244, 32316), (254, 32355), (255, 32358), (263, 32388), (268, 32406), (278, 32460), (284, 32505), (295, 32559), (301, 32586), (338, 32784), (360, 32886),

Gene: Amelie_31 Start: 27784, Stop: 28920, Start Num: 48
Candidate Starts for Amelie_31:
(Start: 48 @27784 has 250 MA's), (65, 27826), (86, 27871), (105, 27928), (121, 27973), (171, 28060), (191, 28117), (211, 28219), (231, 28285), (234, 28297), (238, 28321), (239, 28324), (255, 28399), (262, 28426), (266, 28438), (272, 28453), (284, 28534), (285, 28546), (293, 28582), (300, 28612),

(302, 28618), (304, 28636), (306, 28645), (307, 28648), (321, 28735), (328, 28768), (329, 28774), (336, 28795), (355, 28897), (362, 28915),

Gene: Amethyst_43 Start: 30138, Stop: 31340, Start Num: 59
Candidate Starts for Amethyst_43:
(Start: 59 @30138 has 106 MA's), (124, 30309), (150, 30378), (155, 30399), (189, 30507), (192, 30513), (202, 30564), (254, 30795), (255, 30798), (263, 30828), (268, 30846), (269, 30849), (272, 30855), (278, 30900), (319, 31134), (338, 31224), (354, 31311), (357, 31317), (361, 31329),

Gene: Amgine_33 Start: 28327, Stop: 29460, Start Num: 48
Candidate Starts for Amgine_33:
(Start: 48 @28327 has 250 MA's), (121, 28516), (175, 28621), (183, 28642), (198, 28687), (211, 28762), (234, 28837), (238, 28861), (255, 28939), (266, 28978), (272, 28993), (284, 29074), (295, 29128), (300, 29152), (304, 29176), (307, 29188), (314, 29245), (321, 29275), (329, 29314), (336, 29335), (338, 29350), (362, 29455),

Gene: Aminay_36 Start: 30032, Stop: 31216, Start Num: 48
Candidate Starts for Aminay_36:
(Start: 48 @30032 has 250 MA's), (57, 30059), (121, 30218), (177, 30380), (198, 30437), (204, 30470), (211, 30512), (223, 30551), (231, 30575), (234, 30587), (242, 30635), (243, 30644), (247, 30659), (255, 30692), (263, 30722), (295, 30881), (300, 30905), (303, 30917), (306, 30938), (311, 30977), (314, 31001), (346, 31169), (361, 31208),

Gene: Amohnition_34 Start: 28755, Stop: 29888, Start Num: 48
Candidate Starts for Amohnition_34:
(Start: 48 @28755 has 250 MA's), (108, 28908), (121, 28944), (183, 29073), (198, 29115), (231, 29253), (234, 29265), (239, 29292), (255, 29367), (272, 29421), (293, 29550), (295, 29556), (300, 29580), (302, 29586), (304, 29604), (307, 29616), (314, 29673), (321, 29703), (329, 29742), (336, 29763), (355, 29865), (359, 29874), (361, 29880),

Gene: Anaya_36 Start: 28387, Stop: 29595, Start Num: 48
Candidate Starts for Anaya_36:
(Start: 48 @28387 has 250 MA's), (93, 28489), (108, 28540), (130, 28600), (175, 28756), (198, 28819), (211, 28894), (231, 28960), (234, 28972), (239, 28999), (252, 29062), (255, 29074), (266, 29113), (271, 29125), (272, 29128), (284, 29209), (285, 29221), (286, 29224), (289, 29239), (293, 29257), (295, 29263), (300, 29287), (302, 29293), (304, 29311), (306, 29320), (307, 29323), (314, 29380), (321, 29410), (329, 29449), (336, 29470), (355, 29572), (361, 29587),

Gene: Andris_44 Start: 30403, Stop: 31602, Start Num: 59
Candidate Starts for Andris_44:
(Start: 59 @30403 has 106 MA's), (104, 30502), (150, 30643), (155, 30664), (192, 30775), (202, 30826), (254, 31057), (255, 31060), (263, 31090), (272, 31117), (278, 31162), (305, 31312), (319, 31396), (338, 31486), (354, 31573), (357, 31579), (361, 31591),

Gene: Angelica_35 Start: 28309, Stop: 29517, Start Num: 48
Candidate Starts for Angelica_35:
(Start: 48 @28309 has 250 MA's), (93, 28411), (108, 28462), (130, 28522), (183, 28699), (198, 28741), (211, 28816), (231, 28882), (234, 28894), (239, 28921), (255, 28996), (266, 29035), (272, 29050), (284, 29131), (285, 29143), (286, 29146), (289, 29161), (293, 29179), (295, 29185), (300, 29209), (302, 29215), (304, 29233), (306, 29242), (307, 29245), (321, 29332), (329, 29371), (336, 29392), (355, 29494), (361, 29509),

Gene: Animus_43 Start: 30648, Stop: 31847, Start Num: 59

Candidate Starts for Animus_43:
(Start: 59 @30648 has 106 MA's), (124, 30819), (150, 30888), (192, 31020), (202, 31071), (254, 31302), (255, 31305), (263, 31335), (268, 31353), (272, 31362), (278, 31407), (319, 31641), (337, 31722), (338, 31731), (354, 31818), (357, 31824), (361, 31836),

Gene: Anma_35 Start: 28303, Stop: 29511, Start Num: 48
Candidate Starts for Anma_35:
(Start: 48 @28303 has 250 MA's), (93, 28405), (130, 28516), (136, 28534), (183, 28693), (198, 28735), (211, 28810), (231, 28876), (234, 28888), (239, 28915), (255, 28990), (266, 29029), (271, 29041), (272, 29044), (284, 29125), (285, 29137), (286, 29140), (289, 29155), (293, 29173), (300, 29203), (302, 29209), (304, 29227), (306, 29236), (307, 29239), (314, 29296), (329, 29365), (336, 29386), (355, 29488), (361, 29503),

Gene: Apocalypse_35 Start: 28330, Stop: 29538, Start Num: 48
Candidate Starts for Apocalypse_35:
(Start: 48 @28330 has 250 MA's), (93, 28432), (130, 28543), (136, 28561), (175, 28699), (183, 28720), (198, 28762), (211, 28837), (231, 28903), (234, 28915), (239, 28942), (255, 29017), (266, 29056), (272, 29071), (284, 29152), (285, 29164), (286, 29167), (289, 29182), (293, 29200), (295, 29206), (300, 29230), (302, 29236), (304, 29254), (306, 29263), (307, 29266), (314, 29323), (329, 29392), (336, 29413), (355, 29515), (361, 29530),

Gene: Applecrisp_33 Start: 28749, Stop: 29882, Start Num: 48
Candidate Starts for Applecrisp_33:
(Start: 48 @28749 has 250 MA's), (121, 28938), (175, 29043), (183, 29064), (198, 29109), (211, 29184), (234, 29259), (238, 29283), (255, 29361), (266, 29400), (272, 29415), (284, 29496), (295, 29550), (300, 29574), (304, 29598), (307, 29610), (321, 29697), (329, 29736), (336, 29757), (338, 29772), (362, 29877),

Gene: Aquarius_26 Start: 19072, Stop: 18026, Start Num: 107
Candidate Starts for Aquarius_26:
(63, 19183), (Start: 107 @19072 has 45 MA's), (236, 18637), (239, 18622), (247, 18580), (253, 18553), (255, 18547), (256, 18544), (266, 18508), (298, 18337), (303, 18319), (323, 18208), (338, 18139), (345, 18079),

Gene: Ariel_168 Start: 85565, Stop: 86785, Start Num: 48
Candidate Starts for Ariel_168:
(Start: 48 @85565 has 250 MA's), (Start: 66 @85613 has 1 MA's), (142, 85814), (154, 85865), (167, 85913), (175, 85940), (198, 85997), (199, 86000), (204, 86030), (207, 86048), (230, 86129), (248, 86207), (250, 86216), (251, 86222), (260, 86255), (292, 86414), (299, 86450), (306, 86486), (313, 86543), (336, 86654), (344, 86726), (346, 86732), (358, 86762),

Gene: Artu_158 Start: 110903, Stop: 109476, Start Num: 12
Candidate Starts for Artu_158:
(3, 111005), (8, 110969), (11, 110912), (Start: 12 @110903 has 9 MA's), (13, 110867), (32, 110699), (33, 110696), (77, 110624), (184, 110327), (198, 110276), (248, 110066), (250, 110057), (302, 109808), (310, 109748), (345, 109535),

Gene: Asayake_35 Start: 28393, Stop: 29601, Start Num: 48
Candidate Starts for Asayake_35:
(Start: 39 @28369 has 1 MA's), (Start: 48 @28393 has 250 MA's), (93, 28495), (130, 28606), (183, 28783), (198, 28825), (211, 28900), (224, 28942), (231, 28966), (234, 28978), (239, 29005), (255, 29080), (266, 29119), (272, 29134), (284, 29215), (285, 29227), (286, 29230), (289, 29245), (293, 29263), (295, 29269), (300, 29293), (302, 29299), (304, 29317), (306, 29326), (307, 29329), (314,

29386), (321, 29416), (329, 29455), (336, 29476), (355, 29578), (361, 29593),

Gene: Asten_43 Start: 29548, Stop: 30738, Start Num: 59
Candidate Starts for Asten_43:
(Start: 59 @29548 has 106 MA's), (86, 29596), (109, 29662), (110, 29668), (150, 29782), (202, 29965), (222, 30055), (254, 30196), (255, 30199), (259, 30211), (268, 30247), (272, 30256), (278, 30301), (284, 30346), (295, 30400), (300, 30424), (319, 30535), (338, 30625),

Gene: Atiba_35 Start: 28322, Stop: 29530, Start Num: 48
Candidate Starts for Atiba_35:
(Start: 48 @28322 has 250 MA's), (93, 28424), (130, 28535), (183, 28712), (198, 28754), (211, 28829), (231, 28895), (234, 28907), (239, 28934), (255, 29009), (266, 29048), (272, 29063), (284, 29144), (285, 29156), (286, 29159), (289, 29174), (293, 29192), (295, 29198), (300, 29222), (302, 29228), (304, 29246), (306, 29255), (307, 29258), (314, 29315), (321, 29345), (322, 29348), (329, 29384), (336, 29405), (355, 29507), (361, 29522),

Gene: Attacne_26 Start: 19091, Stop: 18045, Start Num: 107
Candidate Starts for Attacne_26:
(Start: 107 @19091 has 45 MA's), (236, 18656), (239, 18641), (247, 18599), (253, 18572), (255, 18566), (256, 18563), (274, 18488), (298, 18356), (323, 18227), (338, 18158), (345, 18098),

Gene: Atuin_162 Start: 113430, Stop: 111916, Start Num: 12
Candidate Starts for Atuin_162:
(11, 113439), (Start: 12 @113430 has 9 MA's), (13, 113394), (16, 113358), (23, 113304), (34, 113199), (41, 113172), (77, 113103), (128, 112944), (137, 112923), (156, 112866), (184, 112767), (211, 112641), (248, 112506), (292, 112290), (310, 112188), (345, 111975), (348, 111966),

Gene: Axiom_45 Start: 30603, Stop: 31802, Start Num: 59
Candidate Starts for Axiom_45:
(Start: 59 @30603 has 106 MA's), (124, 30774), (150, 30843), (155, 30864), (192, 30975), (202, 31026), (254, 31257), (255, 31260), (263, 31290), (268, 31308), (272, 31317), (278, 31362), (319, 31596), (328, 31644), (337, 31677), (338, 31686), (354, 31773), (357, 31779), (361, 31791),

Gene: BAKA_173 Start: 90543, Stop: 91703, Start Num: 48
Candidate Starts for BAKA_173:
(Start: 48 @90543 has 250 MA's), (53, 90561), (64, 90585), (100, 90669), (111, 90699), (165, 90822), (175, 90858), (198, 90915), (199, 90918), (204, 90948), (207, 90966), (230, 91047), (248, 91125), (250, 91134), (251, 91140), (292, 91332), (299, 91368), (306, 91404), (313, 91461), (336, 91572), (344, 91644), (346, 91650), (358, 91680),

Gene: BEEST_35 Start: 28393, Stop: 29601, Start Num: 48
Candidate Starts for BEEST_35:
(Start: 39 @28369 has 1 MA's), (Start: 48 @28393 has 250 MA's), (93, 28495), (130, 28606), (183, 28783), (198, 28825), (211, 28900), (224, 28942), (231, 28966), (234, 28978), (239, 29005), (255, 29080), (266, 29119), (272, 29134), (284, 29215), (285, 29227), (286, 29230), (289, 29245), (293, 29263), (295, 29269), (300, 29293), (302, 29299), (304, 29317), (306, 29326), (307, 29329), (314, 29386), (321, 29416), (329, 29455), (336, 29476), (355, 29578), (361, 29593),

Gene: BGlluviae_35 Start: 28393, Stop: 29601, Start Num: 48
Candidate Starts for BGlluviae_35:
(Start: 39 @28369 has 1 MA's), (Start: 48 @28393 has 250 MA's), (93, 28495), (130, 28606), (161, 28714), (183, 28783), (198, 28825), (211, 28900), (231, 28966), (234, 28978), (239, 29005), (255, 29080), (266, 29119), (272, 29134), (284, 29215), (285, 29227), (286, 29230), (289, 29245), (293,

29263), (295, 29269), (300, 29293), (302, 29299), (304, 29317), (306, 29326), (307, 29329), (314, 29386), (321, 29416), (329, 29455), (336, 29476), (355, 29578), (361, 29593),

Gene: BaghaKamala_35 Start: 28322, Stop: 29530, Start Num: 48
Candidate Starts for BaghaKamala_35:
(Start: 39 @28298 has 1 MA's), (Start: 48 @28322 has 250 MA's), (93, 28424), (130, 28535), (161, 28643), (183, 28712), (198, 28754), (211, 28829), (231, 28895), (234, 28907), (239, 28934), (255, 29009), (266, 29048), (272, 29063), (284, 29144), (285, 29156), (286, 29159), (289, 29174), (293, 29192), (295, 29198), (300, 29222), (302, 29228), (304, 29246), (306, 29255), (307, 29258), (314, 29315), (321, 29345), (329, 29384), (336, 29405), (355, 29507), (361, 29522), (362, 29525),

Gene: Bagrid_176 Start: 90905, Stop: 92065, Start Num: 48
Candidate Starts for Bagrid_176:
(Start: 48 @90905 has 250 MA's), (53, 90923), (64, 90947), (100, 91031), (111, 91061), (165, 91184), (175, 91220), (198, 91277), (199, 91280), (204, 91310), (207, 91328), (230, 91409), (248, 91487), (250, 91496), (251, 91502), (260, 91535), (292, 91694), (299, 91730), (306, 91766), (313, 91823), (336, 91934), (344, 92006), (346, 92012), (358, 92042),

Gene: BananenDer11_34 Start: 28959, Stop: 30173, Start Num: 48
Candidate Starts for BananenDer11_34:
(Start: 48 @28959 has 250 MA's), (54, 28977), (136, 29190), (149, 29238), (198, 29397), (203, 29421), (214, 29481), (223, 29511), (227, 29520), (231, 29535), (234, 29547), (255, 29652), (256, 29655), (261, 29673), (272, 29706), (276, 29739), (284, 29787), (285, 29799), (293, 29835), (300, 29865), (302, 29871), (305, 29892), (306, 29898), (307, 29901), (314, 29958), (321, 29988), (322, 29991), (345, 30123), (349, 30135), (355, 30150), (359, 30159),

Gene: Banquo_65 Start: 39615, Stop: 40727, Start Num: 85
Candidate Starts for Banquo_65:
(71, 39588), (Start: 85 @39615 has 11 MA's), (87, 39624), (95, 39636), (Start: 107 @39672 has 45 MA's), (132, 39738), (195, 39933), (209, 40011), (228, 40077), (230, 40086), (233, 40098), (242, 40149), (259, 40215), (266, 40245), (268, 40251), (272, 40260), (287, 40359), (300, 40419), (303, 40431), (304, 40443), (311, 40488), (334, 40596), (340, 40647), (348, 40686), (362, 40722),

Gene: BarrelRoll_35 Start: 28345, Stop: 29553, Start Num: 48
Candidate Starts for BarrelRoll_35:
(Start: 48 @28345 has 250 MA's), (93, 28447), (130, 28558), (183, 28735), (198, 28777), (211, 28852), (231, 28918), (234, 28930), (239, 28957), (255, 29032), (266, 29071), (272, 29086), (284, 29167), (285, 29179), (286, 29182), (289, 29197), (293, 29215), (295, 29221), (300, 29245), (302, 29251), (304, 29269), (306, 29278), (307, 29281), (314, 29338), (321, 29368), (322, 29371), (329, 29407), (336, 29428), (355, 29530), (361, 29545),

Gene: BarryBee_46 Start: 29558, Stop: 30748, Start Num: 59
Candidate Starts for BarryBee_46:
(Start: 59 @29558 has 106 MA's), (86, 29606), (109, 29672), (110, 29678), (150, 29792), (202, 29975), (222, 30065), (254, 30206), (255, 30209), (259, 30221), (268, 30257), (272, 30266), (278, 30311), (284, 30356), (295, 30410), (300, 30434), (301, 30437), (319, 30545), (338, 30635), (348, 30704),

Gene: BartholomewSD_46 Start: 30774, Stop: 31976, Start Num: 59
Candidate Starts for BartholomewSD_46:
(Start: 59 @30774 has 106 MA's), (124, 30945), (150, 31014), (155, 31035), (188, 31137), (191, 31146), (202, 31200), (225, 31299), (254, 31431), (255, 31434), (263, 31464), (268, 31482), (295, 31635), (319, 31770), (337, 31851), (338, 31860), (348, 31929), (354, 31947), (357, 31953),

Gene: BeardedLady_44 Start: 29466, Stop: 30656, Start Num: 59
Candidate Starts for BeardedLady_44:
(38, 29403), (Start: 59 @29466 has 106 MA's), (86, 29514), (109, 29580), (139, 29667), (150, 29700), (202, 29883), (222, 29973), (254, 30114), (255, 30117), (259, 30129), (268, 30165), (272, 30174), (274, 30198), (278, 30219), (300, 30342), (301, 30345), (305, 30369), (319, 30453), (338, 30543), (360, 30645),

Gene: Beem_168 Start: 89698, Stop: 90858, Start Num: 48
Candidate Starts for Beem_168:
(Start: 48 @89698 has 250 MA's), (53, 89716), (64, 89740), (100, 89824), (111, 89854), (165, 89977), (175, 90013), (198, 90070), (199, 90073), (204, 90103), (207, 90121), (230, 90202), (248, 90280), (250, 90289), (251, 90295), (292, 90487), (299, 90523), (306, 90559), (313, 90616), (336, 90727), (344, 90799), (346, 90805), (358, 90835),

Gene: Beezoo_35 Start: 28370, Stop: 29578, Start Num: 48
Candidate Starts for Beezoo_35:
(Start: 48 @28370 has 250 MA's), (93, 28472), (130, 28583), (183, 28760), (198, 28802), (211, 28877), (231, 28943), (234, 28955), (239, 28982), (255, 29057), (266, 29096), (272, 29111), (284, 29192), (285, 29204), (286, 29207), (289, 29222), (293, 29240), (295, 29246), (300, 29270), (302, 29276), (304, 29294), (306, 29303), (307, 29306), (314, 29363), (321, 29393), (322, 29396), (329, 29432), (336, 29453), (355, 29555), (361, 29570),

Gene: Bella96_35 Start: 28263, Stop: 29471, Start Num: 48
Candidate Starts for Bella96_35:
(Start: 48 @28263 has 250 MA's), (93, 28365), (130, 28476), (136, 28494), (183, 28653), (198, 28695), (211, 28770), (231, 28836), (234, 28848), (239, 28875), (255, 28950), (266, 28989), (271, 29001), (272, 29004), (284, 29085), (285, 29097), (286, 29100), (289, 29115), (293, 29133), (295, 29139), (300, 29163), (302, 29169), (304, 29187), (306, 29196), (307, 29199), (314, 29256), (321, 29286), (329, 29325), (355, 29448), (361, 29463),

Gene: Belladonna_35 Start: 28393, Stop: 29601, Start Num: 48
Candidate Starts for Belladonna_35:
(Start: 39 @28369 has 1 MA's), (Start: 48 @28393 has 250 MA's), (93, 28495), (130, 28606), (161, 28714), (183, 28783), (198, 28825), (211, 28900), (231, 28966), (234, 28978), (239, 29005), (255, 29080), (266, 29119), (272, 29134), (285, 29227), (286, 29230), (289, 29245), (293, 29263), (295, 29269), (300, 29293), (302, 29299), (304, 29317), (306, 29326), (307, 29329), (314, 29386), (321, 29416), (329, 29455), (336, 29476), (355, 29578), (361, 29593),

Gene: Bern_35 Start: 28302, Stop: 29510, Start Num: 48
Candidate Starts for Bern_35:
(Start: 48 @28302 has 250 MA's), (93, 28404), (130, 28515), (136, 28533), (183, 28692), (198, 28734), (211, 28809), (231, 28875), (234, 28887), (239, 28914), (254, 28986), (255, 28989), (266, 29028), (271, 29040), (272, 29043), (284, 29124), (285, 29136), (286, 29139), (293, 29172), (295, 29178), (300, 29202), (302, 29208), (304, 29226), (306, 29235), (307, 29238), (314, 29295), (321, 29325), (329, 29364), (336, 29385), (355, 29487), (361, 29502), (362, 29505),

Gene: Biglebops_31 Start: 27784, Stop: 28920, Start Num: 48
Candidate Starts for Biglebops_31:
(Start: 48 @27784 has 250 MA's), (65, 27826), (86, 27871), (105, 27928), (121, 27973), (171, 28060), (191, 28117), (211, 28219), (231, 28285), (234, 28297), (238, 28321), (239, 28324), (255, 28399), (262, 28426), (266, 28438), (272, 28453), (284, 28534), (285, 28546), (293, 28582), (300, 28612), (302, 28618), (304, 28636), (306, 28645), (307, 28648), (321, 28735), (328, 28768), (329, 28774), (336, 28795), (355, 28897), (362, 28915),

Gene: Blizzard_35 Start: 28393, Stop: 29601, Start Num: 48
Candidate Starts for Blizzard_35:
(Start: 39 @28369 has 1 MA's), (Start: 48 @28393 has 250 MA's), (93, 28495), (130, 28606), (183, 28783), (198, 28825), (211, 28900), (224, 28942), (231, 28966), (234, 28978), (239, 29005), (255, 29080), (266, 29119), (272, 29134), (284, 29215), (285, 29227), (286, 29230), (289, 29245), (293, 29263), (295, 29269), (300, 29293), (302, 29299), (304, 29317), (306, 29326), (307, 29329), (314, 29386), (321, 29416), (329, 29455), (336, 29476), (355, 29578), (361, 29593),

Gene: Bloom_174 Start: 113947, Stop: 112619, Start Num: 21
Candidate Starts for Bloom_174:
(Start: 21 @113947 has 8 MA's), (83, 113722), (238, 113224), (255, 113146), (328, 112774),

Gene: Bobby_160 Start: 90693, Stop: 91850, Start Num: 68
Candidate Starts for Bobby_160:
(Start: 68 @90693 has 1 MA's), (79, 90714), (95, 90750), (129, 90846), (133, 90858), (174, 90987), (180, 91011), (196, 91062), (202, 91086), (205, 91101), (231, 91206), (240, 91248), (250, 91302), (251, 91308), (254, 91320), (256, 91326), (272, 91380), (277, 91416), (292, 91506), (295, 91518), (300, 91542), (303, 91554), (359, 91836),

Gene: Bobquesha_37 Start: 29185, Stop: 30375, Start Num: 48
Candidate Starts for Bobquesha_37:
(Start: 48 @29185 has 250 MA's), (108, 29341), (120, 29371), (130, 29401), (161, 29488), (198, 29596), (214, 29680), (231, 29734), (242, 29794), (243, 29803), (247, 29818), (255, 29851), (271, 29902), (272, 29905), (284, 29986), (293, 30034), (295, 30040), (300, 30064), (302, 30070), (303, 30076), (305, 30091), (311, 30136), (322, 30193), (346, 30328), (348, 30334), (359, 30361), (361, 30367), (362, 30370),

Gene: Boiiii_35 Start: 28395, Stop: 29603, Start Num: 48
Candidate Starts for Boiiii_35:
(Start: 39 @28371 has 1 MA's), (Start: 48 @28395 has 250 MA's), (93, 28497), (130, 28608), (183, 28785), (198, 28827), (211, 28902), (224, 28944), (231, 28968), (234, 28980), (239, 29007), (255, 29082), (266, 29121), (272, 29136), (284, 29217), (285, 29229), (286, 29232), (289, 29247), (293, 29265), (295, 29271), (300, 29295), (302, 29301), (304, 29319), (306, 29328), (307, 29331), (314, 29388), (321, 29418), (329, 29457), (336, 29478), (355, 29580), (361, 29595),

Gene: Boilgate_32 Start: 30234, Stop: 31436, Start Num: 48
Candidate Starts for Boilgate_32:
(44, 30225), (Start: 48 @30234 has 250 MA's), (93, 30339), (119, 30429), (130, 30462), (156, 30534), (175, 30597), (198, 30657), (202, 30675), (214, 30741), (234, 30807), (242, 30855), (243, 30864), (247, 30879), (252, 30900), (255, 30912), (263, 30942), (271, 30963), (284, 31047), (295, 31101), (300, 31125), (302, 31131), (305, 31152), (307, 31161), (311, 31197), (314, 31221), (321, 31251), (322, 31254), (326, 31278), (345, 31386), (359, 31422), (361, 31428), (362, 31431),

Gene: Bombitas_154 Start: 85928, Stop: 87088, Start Num: 48
Candidate Starts for Bombitas_154:
(Start: 48 @85928 has 250 MA's), (53, 85946), (64, 85970), (100, 86054), (111, 86084), (165, 86207), (175, 86243), (198, 86300), (199, 86303), (204, 86333), (207, 86351), (230, 86432), (233, 86444), (248, 86510), (251, 86525), (260, 86558), (292, 86717), (299, 86753), (306, 86789), (313, 86846), (336, 86957), (344, 87029), (346, 87035), (358, 87065),

Gene: BooTeria_159 Start: 111070, Stop: 109556, Start Num: 12
Candidate Starts for BooTeria_159:

(3, 111172), (8, 111136), (11, 111079), (Start: 12 @111070 has 9 MA's), (13, 111034), (32, 110866), (33, 110863), (Start: 56 @110785 has 1 MA's), (73, 110752), (77, 110743), (88, 110710), (137, 110563), (153, 110515), (175, 110434), (210, 110284), (248, 110146), (292, 109930), (302, 109888), (310, 109828), (345, 109615),

Gene: BoostSeason_35 Start: 27717, Stop: 28901, Start Num: 48
Candidate Starts for BoostSeason_35:
(Start: 48 @27717 has 250 MA's), (Start: 60 @27750 has 5 MA's), (120, 27900), (130, 27930), (198, 28128), (211, 28203), (231, 28266), (238, 28302), (255, 28380), (256, 28383), (293, 28563), (300, 28593), (302, 28599), (305, 28620), (306, 28626), (314, 28686), (321, 28716), (336, 28776), (362, 28896),

Gene: Bovely_43 Start: 29219, Stop: 30409, Start Num: 59
Candidate Starts for Bovely_43:
(38, 29156), (Start: 59 @29219 has 106 MA's), (86, 29267), (109, 29333), (139, 29420), (150, 29453), (202, 29636), (222, 29726), (254, 29867), (255, 29870), (259, 29882), (268, 29918), (272, 29927), (274, 29951), (278, 29972), (300, 30095), (301, 30098), (319, 30206), (338, 30296), (360, 30398),

Gene: Bowden_43 Start: 30689, Stop: 31891, Start Num: 59
Candidate Starts for Bowden_43:
(Start: 59 @30689 has 106 MA's), (150, 30929), (155, 30950), (178, 31031), (188, 31052), (191, 31061), (202, 31115), (225, 31214), (254, 31346), (255, 31349), (263, 31379), (268, 31397), (305, 31601), (319, 31685), (320, 31694), (338, 31775), (354, 31862), (357, 31868),

Gene: Brataylor_46 Start: 30531, Stop: 31721, Start Num: 59
Candidate Starts for Brataylor_46:
(Start: 59 @30531 has 106 MA's), (86, 30579), (109, 30645), (110, 30651), (150, 30765), (202, 30948), (222, 31038), (254, 31179), (255, 31182), (259, 31194), (268, 31230), (272, 31239), (274, 31263), (278, 31284), (284, 31329), (300, 31407), (301, 31410), (319, 31518), (338, 31608), (348, 31677),

Gene: BroPlease_44 Start: 29706, Stop: 30899, Start Num: 59
Candidate Starts for BroPlease_44:
(Start: 59 @29706 has 106 MA's), (67, 29718), (110, 29832), (150, 29946), (155, 29967), (199, 30108), (263, 30387), (268, 30405), (278, 30459), (280, 30486), (284, 30504), (319, 30693), (337, 30774), (348, 30852), (354, 30870), (357, 30876), (361, 30888),

Gene: BronnyJames_163 Start: 85611, Stop: 86831, Start Num: 48
Candidate Starts for BronnyJames_163:
(Start: 48 @85611 has 250 MA's), (Start: 66 @85659 has 1 MA's), (142, 85860), (154, 85911), (167, 85959), (175, 85986), (198, 86043), (199, 86046), (204, 86076), (207, 86094), (230, 86175), (248, 86253), (250, 86262), (251, 86268), (260, 86301), (292, 86460), (299, 86496), (306, 86532), (313, 86589), (336, 86700), (344, 86772), (346, 86778), (358, 86808),

Gene: BruceLethal_26 Start: 19313, Stop: 18270, Start Num: 107
Candidate Starts for BruceLethal_26:
(63, 19421), (Start: 107 @19313 has 45 MA's), (236, 18881), (239, 18866), (247, 18824), (253, 18797), (255, 18791), (256, 18788), (260, 18773), (280, 18668), (298, 18581), (303, 18563), (323, 18452), (338, 18383), (345, 18323),

Gene: BryanRecycles_44 Start: 29538, Stop: 30725, Start Num: 59
Candidate Starts for BryanRecycles_44:
(Start: 59 @29538 has 106 MA's), (109, 29655), (110, 29661), (122, 29700), (134, 29736), (150, 29775), (185, 29892), (190, 29898), (202, 29952), (255, 30186), (268, 30234), (284, 30333), (300,

30411), (301, 30414), (305, 30438), (319, 30522), (338, 30612),

Gene: Bryler_35 Start: 27685, Stop: 28893, Start Num: 48
Candidate Starts for Bryler_35:
(Start: 48 @27685 has 250 MA's), (54, 27703), (93, 27787), (130, 27898), (136, 27916), (183, 28078), (198, 28120), (231, 28258), (234, 28270), (239, 28297), (255, 28372), (272, 28426), (284, 28507), (293, 28555), (295, 28561), (300, 28585), (304, 28609), (305, 28612), (314, 28678), (321, 28708), (336, 28768), (348, 28852), (355, 28870), (361, 28885),

Gene: Buldak_30 Start: 21932, Stop: 23209, Start Num: 24
Candidate Starts for Buldak_30:
(Start: 24 @21932 has 3 MA's), (94, 22133), (96, 22139), (123, 22217), (135, 22244), (137, 22247), (198, 22412), (218, 22511), (220, 22517), (258, 22661), (268, 22700), (272, 22709), (300, 22871), (302, 22877), (330, 23039), (349, 23165),

Gene: CREW_35 Start: 28393, Stop: 29601, Start Num: 48
Candidate Starts for CREW_35:
(Start: 39 @28369 has 1 MA's), (Start: 48 @28393 has 250 MA's), (93, 28495), (130, 28606), (161, 28714), (183, 28783), (198, 28825), (211, 28900), (231, 28966), (234, 28978), (239, 29005), (255, 29080), (266, 29119), (272, 29134), (284, 29215), (285, 29227), (286, 29230), (289, 29245), (293, 29263), (295, 29269), (300, 29293), (302, 29299), (304, 29317), (306, 29326), (307, 29329), (314, 29386), (321, 29416), (329, 29455), (336, 29476), (355, 29578), (361, 29593),

Gene: Caelum_45 Start: 30379, Stop: 31572, Start Num: 59
Candidate Starts for Caelum_45:
(30, 30268), (Start: 59 @30379 has 106 MA's), (109, 30499), (124, 30550), (150, 30619), (155, 30640), (166, 30682), (199, 30781), (202, 30796), (242, 30976), (254, 31027), (255, 31030), (268, 31078), (319, 31366), (338, 31456), (354, 31543), (357, 31549),

Gene: Cain_35 Start: 27673, Stop: 28881, Start Num: 48
Candidate Starts for Cain_35:
(Start: 48 @27673 has 250 MA's), (54, 27691), (93, 27775), (130, 27886), (136, 27904), (183, 28066), (198, 28108), (231, 28246), (234, 28258), (239, 28285), (255, 28360), (272, 28414), (284, 28495), (293, 28543), (295, 28549), (300, 28573), (304, 28597), (305, 28600), (314, 28666), (321, 28696), (336, 28756), (348, 28840), (355, 28858), (361, 28873),

Gene: Caliburn_43 Start: 29196, Stop: 30386, Start Num: 59
Candidate Starts for Caliburn_43:
(38, 29133), (Start: 59 @29196 has 106 MA's), (86, 29244), (109, 29310), (139, 29397), (150, 29430), (192, 29562), (202, 29613), (222, 29703), (254, 29844), (255, 29847), (259, 29859), (268, 29895), (272, 29904), (274, 29928), (278, 29949), (300, 30072), (301, 30075), (319, 30183), (338, 30273), (360, 30375),

Gene: CallaLilly_35 Start: 28316, Stop: 29524, Start Num: 48
Candidate Starts for CallaLilly_35:
(Start: 39 @28292 has 1 MA's), (Start: 48 @28316 has 250 MA's), (93, 28418), (130, 28529), (161, 28637), (183, 28706), (198, 28748), (211, 28823), (231, 28889), (234, 28901), (239, 28928), (255, 29003), (266, 29042), (272, 29057), (284, 29138), (285, 29150), (286, 29153), (289, 29168), (293, 29186), (295, 29192), (300, 29216), (302, 29222), (304, 29240), (306, 29249), (307, 29252), (314, 29309), (321, 29339), (329, 29378), (336, 29399), (355, 29501), (361, 29516),

Gene: Capricorn_35 Start: 28393, Stop: 29601, Start Num: 48
Candidate Starts for Capricorn_35:

(Start: 39 @28369 has 1 MA's), (Start: 48 @28393 has 250 MA's), (93, 28495), (130, 28606), (161, 28714), (183, 28783), (198, 28825), (211, 28900), (231, 28966), (234, 28978), (239, 29005), (255, 29080), (266, 29119), (272, 29134), (284, 29215), (285, 29227), (286, 29230), (289, 29245), (293, 29263), (295, 29269), (300, 29293), (302, 29299), (304, 29317), (306, 29326), (307, 29329), (314, 29386), (321, 29416), (329, 29455), (336, 29476), (355, 29578), (361, 29593),

Gene: CaseJules_35 Start: 28393, Stop: 29601, Start Num: 48
Candidate Starts for CaseJules_35:
(Start: 39 @28369 has 1 MA's), (Start: 48 @28393 has 250 MA's), (93, 28495), (130, 28606), (183, 28783), (198, 28825), (211, 28900), (224, 28942), (231, 28966), (234, 28978), (239, 29005), (255, 29080), (266, 29119), (272, 29134), (284, 29215), (285, 29227), (286, 29230), (289, 29245), (293, 29263), (295, 29269), (300, 29293), (302, 29299), (304, 29317), (306, 29326), (307, 29329), (314, 29386), (321, 29416), (329, 29455), (336, 29476), (355, 29578), (361, 29593),

Gene: Catfish_66 Start: 41648, Stop: 42793, Start Num: 85
Candidate Starts for Catfish_66:
(Start: 85 @41648 has 11 MA's), (95, 41669), (109, 41714), (133, 41789), (146, 41831), (178, 41948), (225, 42134), (230, 42152), (231, 42155), (233, 42164), (242, 42215), (247, 42236), (251, 42254), (255, 42269), (266, 42311), (271, 42323), (272, 42326), (300, 42485), (302, 42491), (304, 42509), (311, 42554), (322, 42611), (323, 42614), (334, 42662), (340, 42713), (345, 42743), (346, 42746), (348, 42752), (362, 42788),

Gene: Celery_46 Start: 30842, Stop: 32029, Start Num: 59
Candidate Starts for Celery_46:
(Start: 59 @30842 has 106 MA's), (104, 30938), (109, 30959), (110, 30965), (117, 30986), (150, 31079), (155, 31100), (174, 31160), (190, 31202), (192, 31208), (202, 31256), (207, 31286), (244, 31448), (254, 31487), (255, 31490), (263, 31520), (268, 31538), (278, 31592), (284, 31637), (295, 31691), (338, 31916), (360, 32018),

Gene: Celeste_44 Start: 29997, Stop: 31187, Start Num: 59
Candidate Starts for Celeste_44:
(Start: 59 @29997 has 106 MA's), (86, 30045), (109, 30111), (110, 30117), (150, 30231), (202, 30414), (222, 30504), (239, 30573), (254, 30645), (255, 30648), (259, 30660), (268, 30696), (272, 30705), (274, 30729), (278, 30750), (295, 30849), (300, 30873), (301, 30876), (319, 30984), (338, 31074), (348, 31143),

Gene: Celia_45 Start: 30185, Stop: 31378, Start Num: 60
Candidate Starts for Celia_45:
(Start: 60 @30185 has 5 MA's), (104, 30284), (109, 30305), (110, 30311), (150, 30425), (155, 30446), (165, 30482), (199, 30587), (202, 30602), (231, 30722), (244, 30794), (254, 30833), (255, 30836), (268, 30884), (272, 30893), (274, 30917), (276, 30926), (278, 30938), (319, 31172), (336, 31247), (338, 31262), (345, 31322), (361, 31367),

Gene: Chancellor_36 Start: 29445, Stop: 30635, Start Num: 48
Candidate Starts for Chancellor_36:
(Start: 48 @29445 has 250 MA's), (108, 29601), (120, 29631), (130, 29661), (161, 29748), (198, 29856), (214, 29940), (231, 29994), (242, 30054), (243, 30063), (247, 30078), (255, 30111), (271, 30162), (272, 30165), (284, 30246), (293, 30294), (295, 30300), (300, 30324), (302, 30330), (305, 30351), (311, 30396), (322, 30453), (346, 30588), (348, 30594), (359, 30621), (361, 30627), (362, 30630),

Gene: Chavito_35 Start: 27992, Stop: 29122, Start Num: 48
Candidate Starts for Chavito_35:

(Start: 48 @27992 has 250 MA's), (65, 28034), (121, 28181), (183, 28307), (198, 28349), (211, 28424), (231, 28487), (234, 28499), (238, 28523), (239, 28526), (255, 28601), (266, 28640), (271, 28652), (272, 28655), (284, 28736), (285, 28748), (293, 28784), (300, 28814), (302, 28820), (304, 28838), (306, 28847), (307, 28850), (314, 28907), (321, 28937), (329, 28976), (336, 28997), (355, 29099), (361, 29114),

Gene: CheetoDust_35 Start: 28370, Stop: 29578, Start Num: 48
Candidate Starts for CheetoDust_35:
(Start: 48 @28370 has 250 MA's), (93, 28472), (130, 28583), (183, 28760), (198, 28802), (211, 28877), (231, 28943), (234, 28955), (239, 28982), (255, 29057), (266, 29096), (272, 29111), (284, 29192), (285, 29204), (286, 29207), (293, 29240), (295, 29246), (300, 29270), (302, 29276), (304, 29294), (306, 29303), (307, 29306), (314, 29363), (321, 29393), (329, 29432), (336, 29453), (355, 29555), (361, 29570),

Gene: Cheetobro_36 Start: 29442, Stop: 30632, Start Num: 48
Candidate Starts for Cheetobro_36:
(Start: 48 @29442 has 250 MA's), (108, 29598), (120, 29628), (130, 29658), (161, 29745), (198, 29853), (214, 29937), (231, 29991), (242, 30051), (243, 30060), (247, 30075), (255, 30108), (271, 30159), (272, 30162), (284, 30243), (293, 30291), (295, 30297), (300, 30321), (302, 30327), (305, 30348), (311, 30393), (322, 30450), (346, 30585), (348, 30591), (359, 30618), (361, 30624), (362, 30627),

Gene: Chilliams_167 Start: 104835, Stop: 103429, Start Num: 12
Candidate Starts for Chilliams_167:
(2, 104946), (4, 104916), (5, 104913), (6, 104910), (7, 104907), (11, 104844), (Start: 12 @104835 has 9 MA's), (97, 104511), (197, 104232), (236, 104076), (248, 104019), (261, 103968), (292, 103803), (310, 103701), (345, 103488), (363, 103437),

Gene: Chris_35 Start: 28107, Stop: 29234, Start Num: 48
Candidate Starts for Chris_35:
(Start: 48 @28107 has 250 MA's), (76, 28167), (121, 28296), (183, 28422), (211, 28536), (231, 28599), (234, 28611), (238, 28635), (239, 28638), (252, 28701), (255, 28713), (272, 28767), (275, 28797), (284, 28848), (285, 28860), (289, 28878), (295, 28902), (300, 28926), (302, 28932), (304, 28950), (307, 28962), (314, 29019), (328, 29082), (336, 29109), (338, 29124), (355, 29211), (361, 29226),

Gene: Chucky_43 Start: 29562, Stop: 30752, Start Num: 59
Candidate Starts for Chucky_43:
(Start: 59 @29562 has 106 MA's), (86, 29610), (109, 29676), (110, 29682), (150, 29796), (202, 29979), (254, 30210), (255, 30213), (259, 30225), (268, 30261), (272, 30270), (274, 30294), (278, 30315), (284, 30360), (295, 30414), (300, 30438), (301, 30441), (319, 30549), (338, 30639), (348, 30708),

Gene: Clipper_35 Start: 28370, Stop: 29578, Start Num: 48
Candidate Starts for Clipper_35:
(Start: 39 @28346 has 1 MA's), (Start: 48 @28370 has 250 MA's), (93, 28472), (130, 28583), (183, 28760), (198, 28802), (211, 28877), (231, 28943), (234, 28955), (239, 28982), (255, 29057), (266, 29096), (272, 29111), (284, 29192), (285, 29204), (286, 29207), (289, 29222), (293, 29240), (300, 29270), (302, 29276), (304, 29294), (306, 29303), (307, 29306), (314, 29363), (321, 29393), (329, 29432), (336, 29453), (355, 29555), (361, 29570),

Gene: Collard_34 Start: 28959, Stop: 30173, Start Num: 48
Candidate Starts for Collard_34:
(Start: 48 @28959 has 250 MA's), (54, 28977), (136, 29190), (149, 29238), (198, 29397), (203, 29421), (214, 29481), (223, 29511), (227, 29520), (231, 29535), (234, 29547), (255, 29652), (256, 29655),

(261, 29673), (272, 29706), (276, 29739), (284, 29787), (285, 29799), (293, 29835), (300, 29865), (302, 29871), (305, 29892), (306, 29898), (307, 29901), (314, 29958), (321, 29988), (322, 29991), (345, 30123), (349, 30135), (355, 30150), (359, 30159),

Gene: Conan_44 Start: 30803, Stop: 31990, Start Num: 59
Candidate Starts for Conan_44:
(Start: 59 @30803 has 106 MA's), (104, 30899), (109, 30920), (110, 30926), (117, 30947), (150, 31040), (155, 31061), (190, 31163), (192, 31169), (202, 31217), (244, 31409), (254, 31448), (255, 31451), (263, 31481), (268, 31499), (278, 31553), (284, 31598), (295, 31652), (301, 31679), (338, 31877), (360, 31979),

Gene: Constella_163 Start: 88432, Stop: 89592, Start Num: 48
Candidate Starts for Constella_163:
(Start: 48 @88432 has 250 MA's), (53, 88450), (64, 88474), (80, 88507), (100, 88558), (111, 88588), (165, 88711), (175, 88747), (198, 88804), (199, 88807), (204, 88837), (207, 88855), (230, 88936), (248, 89014), (250, 89023), (251, 89029), (292, 89221), (299, 89257), (306, 89293), (313, 89350), (336, 89461), (344, 89533), (346, 89539), (358, 89569),

Gene: Cota_26 Start: 19357, Stop: 18317, Start Num: 107
Candidate Starts for Cota_26:
(Start: 107 @19357 has 45 MA's), (236, 18928), (239, 18913), (253, 18844), (255, 18838), (256, 18835), (280, 18715), (298, 18628), (303, 18610), (323, 18499), (338, 18430), (345, 18370),

Gene: Courthouse_165 Start: 86009, Stop: 87229, Start Num: 48
Candidate Starts for Courthouse_165:
(Start: 48 @86009 has 250 MA's), (Start: 66 @86057 has 1 MA's), (142, 86258), (154, 86309), (167, 86357), (175, 86384), (198, 86441), (199, 86444), (204, 86474), (207, 86492), (230, 86573), (248, 86651), (250, 86660), (251, 86666), (260, 86699), (292, 86858), (299, 86894), (306, 86930), (313, 86987), (336, 87098), (344, 87170), (346, 87176), (358, 87206),

Gene: CrimD_35 Start: 28327, Stop: 29535, Start Num: 48
Candidate Starts for CrimD_35:
(Start: 48 @28327 has 250 MA's), (93, 28429), (130, 28540), (136, 28558), (175, 28696), (183, 28717), (186, 28723), (198, 28759), (202, 28777), (211, 28834), (231, 28900), (234, 28912), (239, 28939), (255, 29014), (266, 29053), (271, 29065), (272, 29068), (284, 29149), (285, 29161), (286, 29164), (289, 29179), (293, 29197), (295, 29203), (300, 29227), (302, 29233), (304, 29251), (306, 29260), (307, 29263), (314, 29320), (321, 29350), (329, 29389), (336, 29410), (355, 29512), (361, 29527),

Gene: Curiosium_36 Start: 28153, Stop: 29373, Start Num: 48
Candidate Starts for Curiosium_36:
(Start: 48 @28153 has 250 MA's), (93, 28255), (108, 28306), (130, 28366), (136, 28384), (188, 28552), (198, 28594), (211, 28669), (231, 28732), (234, 28744), (239, 28771), (250, 28825), (255, 28846), (271, 28903), (272, 28906), (284, 28987), (285, 28999), (293, 29035), (295, 29041), (300, 29065), (302, 29071), (304, 29089), (306, 29098), (307, 29101), (314, 29158), (329, 29227), (336, 29248), (348, 29332), (355, 29350), (361, 29365),

Gene: DS6A_36 Start: 30214, Stop: 31425, Start Num: 48
Candidate Starts for DS6A_36:
(Start: 48 @30214 has 250 MA's), (115, 30388), (120, 30397), (124, 30412), (198, 30646), (199, 30649), (211, 30721), (229, 30778), (231, 30787), (232, 30793), (239, 30826), (242, 30847), (243, 30853), (247, 30868), (256, 30904), (266, 30943), (271, 30955), (272, 30958), (293, 31087), (300, 31117), (302, 31123), (305, 31144), (306, 31150), (322, 31243), (327, 31270), (328, 31273), (335, 31297), (336, 31300), (345, 31375), (359, 31411),

Gene: Dadosky_35 Start: 28930, Stop: 30144, Start Num: 48
Candidate Starts for Dadosky_35:
(45, 28924), (Start: 48 @28930 has 250 MA's), (54, 28948), (136, 29161), (149, 29209), (171, 29281), (198, 29368), (203, 29392), (214, 29452), (223, 29482), (227, 29491), (231, 29506), (234, 29518), (251, 29608), (252, 29611), (255, 29623), (256, 29626), (261, 29644), (272, 29677), (276, 29710), (284, 29758), (285, 29770), (293, 29806), (300, 29836), (302, 29842), (306, 29869), (307, 29872), (314, 29929), (321, 29959), (345, 30094), (349, 30106), (355, 30121), (359, 30130),

Gene: Dallas_167 Start: 88921, Stop: 90081, Start Num: 48
Candidate Starts for Dallas_167:
(Start: 48 @88921 has 250 MA's), (53, 88939), (64, 88963), (100, 89047), (111, 89077), (165, 89200), (175, 89236), (198, 89293), (199, 89296), (204, 89326), (207, 89344), (230, 89425), (248, 89503), (250, 89512), (251, 89518), (292, 89710), (299, 89746), (306, 89782), (313, 89839), (336, 89950), (344, 90022), (346, 90028), (358, 90058),

Gene: Dalmuri_35 Start: 28393, Stop: 29601, Start Num: 48
Candidate Starts for Dalmuri_35:
(Start: 39 @28369 has 1 MA's), (Start: 48 @28393 has 250 MA's), (93, 28495), (130, 28606), (161, 28714), (183, 28783), (198, 28825), (211, 28900), (231, 28966), (234, 28978), (239, 29005), (255, 29080), (266, 29119), (272, 29134), (284, 29215), (285, 29227), (286, 29230), (289, 29245), (293, 29263), (295, 29269), (300, 29293), (302, 29299), (304, 29317), (306, 29326), (307, 29329), (314, 29386), (321, 29416), (329, 29455), (336, 29476), (355, 29578), (361, 29593),

Gene: DanSyl44_39 Start: 30311, Stop: 31501, Start Num: 48
Candidate Starts for DanSyl44_39:
(Start: 48 @30311 has 250 MA's), (108, 30467), (120, 30497), (130, 30527), (161, 30614), (198, 30722), (214, 30806), (231, 30860), (242, 30920), (243, 30929), (247, 30944), (255, 30977), (271, 31028), (272, 31031), (284, 31112), (293, 31160), (295, 31166), (300, 31190), (302, 31196), (305, 31217), (311, 31262), (322, 31319), (346, 31454), (348, 31460), (359, 31487), (361, 31493), (362, 31496),

Gene: Danzina_45 Start: 30298, Stop: 31488, Start Num: 59
Candidate Starts for Danzina_45:
(Start: 59 @30298 has 106 MA's), (86, 30346), (109, 30412), (110, 30418), (150, 30532), (202, 30715), (211, 30769), (222, 30805), (254, 30946), (255, 30949), (259, 30961), (268, 30997), (272, 31006), (274, 31030), (278, 31051), (295, 31150), (300, 31174), (301, 31177), (319, 31285), (338, 31375), (348, 31444),

Gene: Dardanus_60 Start: 37871, Stop: 38989, Start Num: 85
Candidate Starts for Dardanus_60:
(Start: 85 @37871 has 11 MA's), (87, 37880), (92, 37889), (103, 37913), (116, 37955), (133, 38006), (149, 38060), (173, 38135), (184, 38171), (215, 38300), (229, 38342), (232, 38357), (233, 38360), (242, 38411), (247, 38432), (251, 38450), (255, 38465), (260, 38483), (266, 38507), (268, 38513), (296, 38666), (300, 38681), (304, 38705), (311, 38750), (321, 38804), (334, 38858), (340, 38909), (341, 38921), (348, 38948),

Gene: DartGoblin_35 Start: 28257, Stop: 29465, Start Num: 48
Candidate Starts for DartGoblin_35:
(Start: 48 @28257 has 250 MA's), (93, 28359), (130, 28470), (136, 28488), (183, 28647), (198, 28689), (211, 28764), (231, 28830), (234, 28842), (239, 28869), (255, 28944), (266, 28983), (271, 28995), (272, 28998), (284, 29079), (285, 29091), (286, 29094), (289, 29109), (293, 29127), (295, 29133), (300, 29157), (302, 29163), (304, 29181), (306, 29190), (307, 29193), (314, 29250), (321, 29280),

(329, 29319), (355, 29442), (361, 29457),

Gene: DarthP_34 Start: 28677, Stop: 29810, Start Num: 48
Candidate Starts for DarthP_34:
(Start: 48 @28677 has 250 MA's), (108, 28830), (121, 28866), (183, 28995), (198, 29037), (231, 29175), (234, 29187), (239, 29214), (255, 29289), (272, 29343), (284, 29424), (295, 29478), (300, 29502), (302, 29508), (307, 29538), (314, 29595), (321, 29625), (329, 29664), (336, 29685), (355, 29787), (359, 29796), (361, 29802),

Gene: Dartin_35 Start: 27680, Stop: 28810, Start Num: 48
Candidate Starts for Dartin_35:
(Start: 48 @27680 has 250 MA's), (65, 27722), (Start: 85 @27764 has 11 MA's), (121, 27869), (183, 27995), (198, 28037), (211, 28112), (231, 28175), (234, 28187), (238, 28211), (239, 28214), (255, 28289), (266, 28328), (271, 28340), (272, 28343), (284, 28424), (285, 28436), (293, 28472), (300, 28502), (302, 28508), (304, 28526), (306, 28535), (307, 28538), (321, 28625), (329, 28664), (336, 28685), (355, 28787), (361, 28802),

Gene: Dattran_45 Start: 30140, Stop: 31330, Start Num: 59
Candidate Starts for Dattran_45:
(Start: 59 @30140 has 106 MA's), (86, 30188), (109, 30254), (110, 30260), (150, 30374), (202, 30557), (222, 30647), (254, 30788), (255, 30791), (259, 30803), (268, 30839), (272, 30848), (278, 30893), (284, 30938), (295, 30992), (300, 31016), (301, 31019), (319, 31127), (338, 31217), (348, 31286),

Gene: Daudau_44 Start: 30511, Stop: 31713, Start Num: 59
Candidate Starts for Daudau_44:
(Start: 59 @30511 has 106 MA's), (150, 30751), (188, 30874), (202, 30937), (225, 31036), (254, 31168), (255, 31171), (263, 31201), (268, 31219), (278, 31273), (319, 31507), (337, 31588), (338, 31597), (354, 31684), (357, 31690),

Gene: Deby_35 Start: 28327, Stop: 29535, Start Num: 48
Candidate Starts for Deby_35:
(Start: 48 @28327 has 250 MA's), (93, 28429), (108, 28480), (130, 28540), (183, 28717), (198, 28759), (211, 28834), (231, 28900), (234, 28912), (239, 28939), (255, 29014), (266, 29053), (272, 29068), (284, 29149), (285, 29161), (286, 29164), (289, 29179), (293, 29197), (295, 29203), (300, 29227), (302, 29233), (304, 29251), (306, 29260), (307, 29263), (321, 29350), (329, 29389), (336, 29410), (355, 29512), (361, 29527),

Gene: DejaVu_32 Start: 9801, Stop: 10997, Start Num: 72
Candidate Starts for DejaVu_32:
(Start: 29 @9651 has 1 MA's), (31, 9675), (40, 9729), (Start: 49 @9747 has 1 MA's), (Start: 72 @9801 has 14 MA's), (96, 9867), (124, 9966), (131, 9981), (144, 10008), (148, 10023), (151, 10038), (206, 10248), (223, 10320), (251, 10443), (267, 10503), (272, 10515), (301, 10686), (316, 10788), (361, 10992),

Gene: Devera_35 Start: 28388, Stop: 29596, Start Num: 48
Candidate Starts for Devera_35:
(Start: 48 @28388 has 250 MA's), (93, 28490), (130, 28601), (136, 28619), (183, 28778), (198, 28820), (211, 28895), (231, 28961), (234, 28973), (239, 29000), (255, 29075), (266, 29114), (271, 29126), (272, 29129), (284, 29210), (285, 29222), (286, 29225), (289, 29240), (293, 29258), (295, 29264), (300, 29288), (302, 29294), (304, 29312), (306, 29321), (307, 29324), (314, 29381), (321, 29411), (322, 29414), (329, 29450), (355, 29573), (361, 29588),

Gene: Dexers_42 Start: 30827, Stop: 32014, Start Num: 59

Candidate Starts for Dexers_42:
(Start: 59 @30827 has 106 MA's), (104, 30923), (109, 30944), (110, 30950), (117, 30971), (150, 31064), (155, 31085), (190, 31187), (192, 31193), (202, 31241), (244, 31433), (254, 31472), (255, 31475), (263, 31505), (268, 31523), (278, 31577), (284, 31622), (295, 31676), (338, 31901), (360, 32003),

Gene: Diane_43 Start: 30367, Stop: 31569, Start Num: 59
Candidate Starts for Diane_43:
(Start: 59 @30367 has 106 MA's), (124, 30538), (150, 30607), (155, 30628), (189, 30736), (192, 30742), (202, 30793), (254, 31024), (255, 31027), (263, 31057), (268, 31075), (278, 31129), (305, 31279), (319, 31363), (338, 31453), (354, 31540), (357, 31546), (361, 31558),

Gene: DinoDaryn_66 Start: 39716, Stop: 40840, Start Num: 85
Candidate Starts for DinoDaryn_66:
(50, 39641), (Start: 85 @39716 has 11 MA's), (87, 39725), (95, 39737), (136, 39860), (215, 40151), (233, 40211), (242, 40262), (247, 40283), (251, 40301), (259, 40328), (266, 40358), (268, 40364), (287, 40472), (300, 40532), (311, 40601), (334, 40709), (348, 40799), (362, 40835),

Gene: DismalFunk_34 Start: 27629, Stop: 28813, Start Num: 48
Candidate Starts for DismalFunk_34:
(Start: 48 @27629 has 250 MA's), (Start: 60 @27662 has 5 MA's), (120, 27812), (130, 27842), (175, 27974), (211, 28115), (231, 28178), (255, 28292), (256, 28295), (293, 28475), (300, 28505), (302, 28511), (305, 28532), (306, 28538), (314, 28598), (321, 28628), (336, 28688), (355, 28790), (362, 28808),

Gene: DismalStressor_34 Start: 27629, Stop: 28813, Start Num: 48
Candidate Starts for DismalStressor_34:
(Start: 48 @27629 has 250 MA's), (Start: 60 @27662 has 5 MA's), (120, 27812), (130, 27842), (175, 27974), (211, 28115), (231, 28178), (255, 28292), (256, 28295), (293, 28475), (300, 28505), (302, 28511), (305, 28532), (306, 28538), (314, 28598), (321, 28628), (336, 28688), (355, 28790), (362, 28808),

Gene: DmpstrDiver_168 Start: 88616, Stop: 89776, Start Num: 48
Candidate Starts for DmpstrDiver_168:
(Start: 48 @88616 has 250 MA's), (53, 88634), (64, 88658), (80, 88691), (100, 88742), (111, 88772), (165, 88895), (175, 88931), (198, 88988), (199, 88991), (204, 89021), (207, 89039), (230, 89120), (248, 89198), (250, 89207), (251, 89213), (292, 89405), (299, 89441), (306, 89477), (313, 89534), (317, 89552), (323, 89570), (336, 89645), (344, 89717), (346, 89723), (358, 89753),

Gene: Dole_35 Start: 28390, Stop: 29598, Start Num: 48
Candidate Starts for Dole_35:
(Start: 48 @28390 has 250 MA's), (93, 28492), (130, 28603), (136, 28621), (183, 28780), (198, 28822), (211, 28897), (231, 28963), (234, 28975), (239, 29002), (255, 29077), (266, 29116), (271, 29128), (272, 29131), (284, 29212), (285, 29224), (286, 29227), (289, 29242), (293, 29260), (295, 29266), (300, 29290), (302, 29296), (304, 29314), (306, 29323), (307, 29326), (314, 29383), (321, 29413), (322, 29416), (329, 29452), (355, 29575), (361, 29590),

Gene: DoubleChamp_34 Start: 28959, Stop: 30173, Start Num: 48
Candidate Starts for DoubleChamp_34:
(Start: 48 @28959 has 250 MA's), (54, 28977), (136, 29190), (149, 29238), (198, 29397), (203, 29421), (214, 29481), (223, 29511), (227, 29520), (231, 29535), (234, 29547), (255, 29652), (256, 29655), (261, 29673), (272, 29706), (276, 29739), (284, 29787), (285, 29799), (293, 29835), (300, 29865), (302, 29871), (305, 29892), (306, 29898), (307, 29901), (314, 29958), (321, 29988), (322, 29991),

(345, 30123), (349, 30135), (355, 30150), (359, 30159),

Gene: Doughnut_35 Start: 27710, Stop: 28894, Start Num: 48
Candidate Starts for Doughnut_35:
(Start: 48 @27710 has 250 MA's), (Start: 60 @27743 has 5 MA's), (120, 27893), (130, 27923), (175, 28055), (198, 28121), (211, 28196), (231, 28259), (237, 28286), (239, 28298), (255, 28373), (256, 28376), (293, 28556), (300, 28586), (302, 28592), (305, 28613), (306, 28619), (314, 28679), (321, 28709), (336, 28769), (362, 28889),

Gene: Dove_154 Start: 84284, Stop: 85444, Start Num: 48
Candidate Starts for Dove_154:
(Start: 48 @84284 has 250 MA's), (53, 84302), (64, 84326), (100, 84410), (111, 84440), (165, 84563), (175, 84599), (198, 84656), (199, 84659), (204, 84689), (207, 84707), (230, 84788), (233, 84800), (248, 84866), (251, 84881), (260, 84914), (292, 85073), (299, 85109), (306, 85145), (313, 85202), (336, 85313), (344, 85385), (346, 85391), (358, 85421),

Gene: DrHayes_35 Start: 28303, Stop: 29511, Start Num: 48
Candidate Starts for DrHayes_35:
(Start: 48 @28303 has 250 MA's), (93, 28405), (130, 28516), (136, 28534), (183, 28693), (198, 28735), (211, 28810), (231, 28876), (234, 28888), (239, 28915), (255, 28990), (266, 29029), (271, 29041), (272, 29044), (284, 29125), (285, 29137), (286, 29140), (289, 29155), (293, 29173), (300, 29203), (302, 29209), (304, 29227), (306, 29236), (307, 29239), (314, 29296), (329, 29365), (336, 29386), (355, 29488), (361, 29503),

Gene: DrParker_26 Start: 19410, Stop: 18364, Start Num: 107
Candidate Starts for DrParker_26:
(Start: 107 @19410 has 45 MA's), (236, 18975), (239, 18960), (251, 18900), (253, 18891), (255, 18885), (256, 18882), (260, 18867), (298, 18675), (323, 18546), (338, 18477), (345, 18417),

Gene: Duke13_170 Start: 89039, Stop: 90199, Start Num: 48
Candidate Starts for Duke13_170:
(Start: 48 @89039 has 250 MA's), (53, 89057), (64, 89081), (100, 89165), (111, 89195), (165, 89318), (175, 89354), (198, 89411), (199, 89414), (204, 89444), (207, 89462), (230, 89543), (248, 89621), (250, 89630), (251, 89636), (292, 89828), (299, 89864), (306, 89900), (313, 89957), (336, 90068), (344, 90140), (346, 90146), (358, 90176),

Gene: DunneganBoMo_159 Start: 110252, Stop: 108825, Start Num: 12
Candidate Starts for DunneganBoMo_159:
(3, 110354), (8, 110318), (11, 110261), (Start: 12 @110252 has 9 MA's), (13, 110216), (17, 110165), (23, 110126), (32, 110048), (33, 110045), (77, 109973), (184, 109676), (198, 109625), (248, 109415), (292, 109199), (302, 109157), (310, 109097), (345, 108884),

Gene: Durfee_35 Start: 28393, Stop: 29601, Start Num: 48
Candidate Starts for Durfee_35:
(Start: 39 @28369 has 1 MA's), (Start: 48 @28393 has 250 MA's), (93, 28495), (130, 28606), (183, 28783), (198, 28825), (211, 28900), (224, 28942), (231, 28966), (234, 28978), (239, 29005), (255, 29080), (266, 29119), (272, 29134), (284, 29215), (285, 29227), (286, 29230), (289, 29245), (293, 29263), (295, 29269), (300, 29293), (302, 29299), (304, 29317), (306, 29326), (307, 29329), (314, 29386), (321, 29416), (329, 29455), (336, 29476), (355, 29578), (361, 29593),

Gene: Dwayne_43 Start: 29549, Stop: 30739, Start Num: 59
Candidate Starts for Dwayne_43:

(Start: 59 @29549 has 106 MA's), (86, 29597), (109, 29663), (110, 29669), (150, 29783), (202, 29966), (254, 30197), (255, 30200), (259, 30212), (268, 30248), (272, 30257), (274, 30281), (278, 30302), (284, 30347), (295, 30401), (300, 30425), (301, 30428), (319, 30536), (338, 30626), (348, 30695),

Gene: ELB20_43 Start: 31002, Stop: 32195, Start Num: 59
Candidate Starts for ELB20_43:
(Start: 59 @31002 has 106 MA's), (104, 31101), (109, 31122), (110, 31128), (140, 31212), (150, 31242), (155, 31263), (199, 31404), (202, 31419), (207, 31449), (254, 31650), (255, 31653), (268, 31701), (275, 31740), (278, 31755), (319, 31989), (337, 32070), (338, 32079), (354, 32166), (357, 32172),

Gene: Eddasa_44 Start: 29538, Stop: 30725, Start Num: 59
Candidate Starts for Eddasa_44:
(Start: 59 @29538 has 106 MA's), (109, 29655), (110, 29661), (122, 29700), (134, 29736), (150, 29775), (185, 29892), (190, 29898), (202, 29952), (255, 30186), (268, 30234), (284, 30333), (300, 30411), (301, 30414), (305, 30438), (319, 30522), (338, 30612),

Gene: Edugator_34 Start: 28929, Stop: 30146, Start Num: 48
Candidate Starts for Edugator_34:
(Start: 48 @28929 has 250 MA's), (54, 28950), (136, 29163), (149, 29211), (203, 29394), (204, 29403), (214, 29454), (223, 29484), (227, 29493), (231, 29508), (234, 29520), (251, 29610), (252, 29613), (255, 29625), (256, 29628), (261, 29646), (272, 29679), (276, 29712), (284, 29760), (285, 29772), (293, 29808), (300, 29838), (302, 29844), (306, 29871), (307, 29874), (314, 29931), (321, 29961), (322, 29964), (345, 30096), (349, 30108), (355, 30123), (359, 30132), (362, 30141),

Gene: Efra2_35 Start: 27628, Stop: 28836, Start Num: 48
Candidate Starts for Efra2_35:
(Start: 48 @27628 has 250 MA's), (93, 27730), (130, 27841), (183, 28018), (198, 28060), (211, 28135), (231, 28201), (234, 28213), (239, 28240), (255, 28315), (266, 28354), (271, 28366), (272, 28369), (284, 28450), (285, 28462), (286, 28465), (289, 28480), (293, 28498), (295, 28504), (300, 28528), (304, 28552), (306, 28561), (307, 28564), (314, 28621), (321, 28651), (329, 28690), (336, 28711), (355, 28813), (361, 28828),

Gene: Ejemplo_42 Start: 29490, Stop: 30680, Start Num: 59
Candidate Starts for Ejemplo_42:
(Start: 59 @29490 has 106 MA's), (86, 29538), (109, 29604), (150, 29724), (202, 29907), (222, 29997), (254, 30138), (255, 30141), (259, 30153), (268, 30189), (272, 30198), (274, 30222), (278, 30243), (284, 30288), (295, 30342), (301, 30369), (319, 30477), (338, 30567),

Gene: Ejimix_158 Start: 87909, Stop: 89069, Start Num: 48
Candidate Starts for Ejimix_158:
(Start: 48 @87909 has 250 MA's), (53, 87927), (64, 87951), (100, 88035), (111, 88065), (165, 88188), (175, 88224), (198, 88281), (199, 88284), (204, 88314), (207, 88332), (230, 88413), (248, 88491), (250, 88500), (251, 88506), (292, 88698), (299, 88734), (306, 88770), (313, 88827), (336, 88938), (344, 89010), (346, 89016), (358, 89046),

Gene: Ekdilam_32 Start: 28435, Stop: 29565, Start Num: 48
Candidate Starts for Ekdilam_32:
(Start: 48 @28435 has 250 MA's), (121, 28624), (183, 28750), (198, 28792), (234, 28942), (237, 28957), (255, 29044), (266, 29083), (272, 29098), (284, 29179), (286, 29194), (293, 29227), (295, 29233), (300, 29257), (302, 29263), (304, 29281), (307, 29293), (314, 29350), (321, 29380), (329, 29419), (336, 29440), (361, 29557),

Gene: ElGato_44 Start: 30467, Stop: 31654, Start Num: 59
Candidate Starts for ElGato_44:
(Start: 59 @30467 has 106 MA's), (104, 30563), (109, 30584), (110, 30590), (117, 30611), (150, 30704), (155, 30725), (190, 30827), (192, 30833), (202, 30881), (244, 31073), (254, 31112), (255, 31115), (263, 31145), (268, 31163), (278, 31217), (284, 31262), (295, 31316), (301, 31343), (338, 31541), (360, 31643),

Gene: Ellewin_159 Start: 110359, Stop: 108929, Start Num: 12
Candidate Starts for Ellewin_159:
(3, 110461), (8, 110425), (11, 110368), (Start: 12 @110359 has 9 MA's), (13, 110323), (17, 110272), (32, 110155), (33, 110152), (77, 110077), (184, 109780), (198, 109729), (248, 109519), (250, 109510), (302, 109261), (310, 109201), (345, 108988),

Gene: Ellie_32 Start: 28440, Stop: 29573, Start Num: 48
Candidate Starts for Ellie_32:
(Start: 48 @28440 has 250 MA's), (121, 28629), (175, 28734), (183, 28755), (198, 28800), (211, 28875), (234, 28950), (238, 28974), (255, 29052), (266, 29091), (272, 29106), (284, 29187), (295, 29241), (300, 29265), (304, 29289), (307, 29301), (321, 29388), (329, 29427), (336, 29448), (338, 29463), (362, 29568),

Gene: Emaanora_46 Start: 29507, Stop: 30697, Start Num: 59
Candidate Starts for Emaanora_46:
(Start: 59 @29507 has 106 MA's), (86, 29555), (109, 29621), (110, 29627), (150, 29741), (202, 29924), (254, 30155), (255, 30158), (259, 30170), (268, 30206), (272, 30215), (274, 30239), (278, 30260), (284, 30305), (295, 30359), (300, 30383), (301, 30386), (319, 30494), (338, 30584), (348, 30653),

Gene: Emerson_35 Start: 28353, Stop: 29561, Start Num: 48
Candidate Starts for Emerson_35:
(Start: 48 @28353 has 250 MA's), (93, 28455), (130, 28566), (183, 28743), (198, 28785), (211, 28860), (231, 28926), (234, 28938), (239, 28965), (255, 29040), (266, 29079), (272, 29094), (284, 29175), (285, 29187), (286, 29190), (289, 29205), (293, 29223), (295, 29229), (300, 29253), (302, 29259), (304, 29277), (306, 29286), (307, 29289), (314, 29346), (321, 29376), (322, 29379), (329, 29415), (336, 29436), (355, 29538), (361, 29553),

Gene: Emmetator_162 Start: 110577, Stop: 109138, Start Num: 11
Candidate Starts for Emmetator_162:
(3, 110670), (8, 110634), (11, 110577), (Start: 12 @110568 has 9 MA's), (13, 110532), (17, 110481), (23, 110442), (32, 110364), (33, 110361), (77, 110286), (184, 109989), (198, 109938), (248, 109728), (250, 109719), (292, 109512), (302, 109470), (310, 109410), (345, 109197),

Gene: Enkosi_31 Start: 27784, Stop: 28920, Start Num: 48
Candidate Starts for Enkosi_31:
(Start: 48 @27784 has 250 MA's), (65, 27826), (86, 27871), (105, 27928), (121, 27973), (171, 28060), (191, 28117), (211, 28219), (231, 28285), (234, 28297), (238, 28321), (239, 28324), (255, 28399), (262, 28426), (266, 28438), (272, 28453), (284, 28534), (285, 28546), (293, 28582), (300, 28612), (302, 28618), (304, 28636), (306, 28645), (307, 28648), (321, 28735), (328, 28768), (329, 28774), (336, 28795), (355, 28897), (362, 28915),

Gene: EnochSoames_46 Start: 29533, Stop: 30720, Start Num: 59
Candidate Starts for EnochSoames_46:
(Start: 59 @29533 has 106 MA's), (109, 29650), (110, 29656), (122, 29695), (150, 29770), (185, 29887), (190, 29893), (202, 29947), (255, 30181), (268, 30229), (284, 30328), (300, 30406), (301, 30409), (305, 30433), (319, 30517), (338, 30607),

Gene: Enochoraptor_26 Start: 19336, Stop: 18290, Start Num: 107
Candidate Starts for Enochoraptor_26:
(Start: 107 @19336 has 45 MA's), (170, 19144), (198, 19057), (236, 18901), (239, 18886), (251, 18826), (253, 18817), (255, 18811), (256, 18808), (260, 18793), (274, 18733), (280, 18688), (298, 18601), (303, 18583), (323, 18472), (338, 18403), (345, 18343),

Gene: Enoki_26 Start: 19347, Stop: 18301, Start Num: 107
Candidate Starts for Enoki_26:
(Start: 107 @19347 has 45 MA's), (236, 18912), (239, 18897), (247, 18855), (253, 18828), (255, 18822), (256, 18819), (260, 18804), (266, 18783), (274, 18744), (280, 18699), (298, 18612), (303, 18594), (323, 18483), (338, 18414), (345, 18354),

Gene: Eponine_38 Start: 30198, Stop: 31388, Start Num: 48
Candidate Starts for Eponine_38:
(Start: 48 @30198 has 250 MA's), (108, 30354), (120, 30384), (130, 30414), (161, 30501), (198, 30609), (214, 30693), (231, 30747), (242, 30807), (243, 30816), (247, 30831), (255, 30864), (271, 30915), (272, 30918), (284, 30999), (293, 31047), (295, 31053), (300, 31077), (302, 31083), (305, 31104), (311, 31149), (322, 31206), (346, 31341), (348, 31347), (359, 31374), (361, 31380), (362, 31383),

Gene: EricMillard_165 Start: 89515, Stop: 90675, Start Num: 48
Candidate Starts for EricMillard_165:
(Start: 48 @89515 has 250 MA's), (53, 89533), (64, 89557), (100, 89641), (111, 89671), (165, 89794), (175, 89830), (198, 89887), (199, 89890), (204, 89920), (207, 89938), (230, 90019), (248, 90097), (250, 90106), (251, 90112), (260, 90145), (292, 90304), (299, 90340), (306, 90376), (313, 90433), (336, 90544), (344, 90616), (346, 90622), (358, 90652),

Gene: Esperer_43 Start: 29032, Stop: 30222, Start Num: 59
Candidate Starts for Esperer_43:
(38, 28969), (Start: 59 @29032 has 106 MA's), (86, 29080), (109, 29146), (139, 29233), (150, 29266), (202, 29449), (222, 29539), (254, 29680), (255, 29683), (259, 29695), (268, 29731), (272, 29740), (274, 29764), (278, 29785), (300, 29908), (301, 29911), (319, 30019), (338, 30109), (360, 30211),

Gene: Fefferhead_34 Start: 28640, Stop: 29773, Start Num: 48
Candidate Starts for Fefferhead_34:
(Start: 48 @28640 has 250 MA's), (121, 28829), (175, 28934), (183, 28955), (198, 29000), (211, 29075), (234, 29150), (238, 29174), (255, 29252), (266, 29291), (272, 29306), (284, 29387), (295, 29441), (300, 29465), (304, 29489), (307, 29501), (314, 29558), (321, 29588), (322, 29591), (329, 29627), (336, 29648), (338, 29663), (362, 29768),

Gene: Feyre_34 Start: 28843, Stop: 30060, Start Num: 48
Candidate Starts for Feyre_34:
(Start: 48 @28843 has 250 MA's), (54, 28864), (136, 29077), (149, 29125), (198, 29284), (204, 29317), (214, 29368), (223, 29398), (227, 29407), (231, 29422), (234, 29434), (251, 29524), (255, 29539), (256, 29542), (261, 29560), (272, 29593), (276, 29626), (284, 29674), (285, 29686), (293, 29722), (300, 29752), (302, 29758), (305, 29779), (306, 29785), (307, 29788), (311, 29821), (312, 29830), (314, 29845), (321, 29875), (322, 29878), (328, 29908), (345, 30010), (355, 30037), (359, 30046),

Gene: Findley_34 Start: 27622, Stop: 28806, Start Num: 48
Candidate Starts for Findley_34:
(36, 27589), (Start: 48 @27622 has 250 MA's), (Start: 60 @27655 has 5 MA's), (120, 27805), (130, 27835), (186, 27994), (198, 28033), (211, 28108), (231, 28171), (237, 28198), (239, 28210), (255,

28285), (256, 28288), (293, 28468), (300, 28498), (302, 28504), (305, 28525), (306, 28531), (314, 28591), (321, 28621), (336, 28681), (355, 28783), (362, 28801),

Gene: Fionnbharth_36 Start: 29433, Stop: 30623, Start Num: 48
Candidate Starts for Fionnbharth_36:
(Start: 48 @29433 has 250 MA's), (108, 29589), (120, 29619), (130, 29649), (161, 29736), (164, 29748), (198, 29844), (202, 29862), (214, 29928), (231, 29982), (242, 30042), (243, 30051), (247, 30066), (254, 30096), (255, 30099), (271, 30150), (272, 30153), (284, 30234), (293, 30282), (295, 30288), (300, 30312), (302, 30318), (305, 30339), (311, 30384), (322, 30441), (346, 30576), (359, 30609), (361, 30615), (362, 30618),

Gene: FloraSnap32_165 Start: 112266, Stop: 110938, Start Num: 21
Candidate Starts for FloraSnap32_165:
(Start: 21 @112266 has 8 MA's), (83, 112041), (238, 111543), (255, 111465), (328, 111093),

Gene: Footloose_65 Start: 36578, Stop: 37732, Start Num: 66
Candidate Starts for Footloose_65:
(Start: 66 @36578 has 1 MA's), (128, 36758), (131, 36764), (160, 36815), (177, 36881), (196, 36941), (201, 36956), (202, 36965), (213, 37028), (233, 37091), (241, 37133), (245, 37148), (247, 37154), (250, 37166), (261, 37208), (269, 37235), (280, 37310), (296, 37382), (306, 37430), (307, 37433), (316, 37499), (318, 37505), (322, 37523), (336, 37601), (358, 37709), (363, 37724),

Gene: FrostedClock_171 Start: 114516, Stop: 113188, Start Num: 21
Candidate Starts for FrostedClock_171:
(Start: 21 @114516 has 8 MA's), (83, 114291), (238, 113793), (255, 113715), (328, 113343),

Gene: Fryberger_119 Start: 56561, Stop: 57652, Start Num: 82
Candidate Starts for Fryberger_119:
(Start: 82 @56561 has 6 MA's), (91, 56582), (147, 56717), (158, 56753), (162, 56765), (172, 56798), (237, 57041), (259, 57140), (271, 57182), (285, 57278), (292, 57302), (293, 57308), (300, 57338), (303, 57350), (309, 57395), (311, 57407), (322, 57464), (353, 57626),

Gene: Ganymede_36 Start: 28382, Stop: 29590, Start Num: 48
Candidate Starts for Ganymede_36:
(Start: 48 @28382 has 250 MA's), (93, 28484), (108, 28535), (130, 28595), (175, 28751), (198, 28814), (211, 28889), (231, 28955), (234, 28967), (239, 28994), (255, 29069), (266, 29108), (272, 29123), (284, 29204), (285, 29216), (286, 29219), (289, 29234), (293, 29252), (295, 29258), (300, 29282), (302, 29288), (304, 29306), (306, 29315), (307, 29318), (314, 29375), (321, 29405), (329, 29444), (336, 29465), (355, 29567), (361, 29582),

Gene: Gengar_34 Start: 28953, Stop: 30170, Start Num: 48
Candidate Starts for Gengar_34:
(Start: 48 @28953 has 250 MA's), (54, 28974), (136, 29187), (149, 29235), (198, 29394), (202, 29412), (204, 29427), (214, 29478), (223, 29508), (227, 29517), (231, 29532), (234, 29544), (251, 29634), (255, 29649), (256, 29652), (261, 29670), (272, 29703), (276, 29736), (284, 29784), (285, 29796), (293, 29832), (300, 29862), (302, 29868), (305, 29889), (306, 29895), (307, 29898), (311, 29931), (312, 29940), (314, 29955), (321, 29985), (322, 29988), (328, 30018), (345, 30120), (355, 30147), (359, 30156),

Gene: Geraldini_35 Start: 28370, Stop: 29578, Start Num: 48
Candidate Starts for Geraldini_35:
(Start: 48 @28370 has 250 MA's), (93, 28472), (130, 28583), (183, 28760), (198, 28802), (211, 28877), (231, 28943), (234, 28955), (239, 28982), (255, 29057), (266, 29096), (272, 29111), (284, 29192),

(285, 29204), (286, 29207), (289, 29222), (293, 29240), (300, 29270), (302, 29276), (304, 29294), (306, 29303), (307, 29306), (314, 29363), (321, 29393), (329, 29432), (336, 29453), (355, 29555), (361, 29570),

Gene: Gilgamesh_55 Start: 50958, Stop: 52205, Start Num: 56
Candidate Starts for Gilgamesh_55:
(1, 50523), (11, 50637), (18, 50766), (51, 50943), (52, 50949), (Start: 56 @50958 has 1 MA's), (101, 51072), (106, 51096), (125, 51159), (128, 51168), (141, 51207), (157, 51264), (160, 51276), (168, 51309), (179, 51348), (184, 51360), (204, 51447), (249, 51645), (282, 51804), (294, 51864), (295, 51867), (300, 51891), (305, 51918), (332, 52059), (346, 52158),

Gene: GirlDinner_43 Start: 30149, Stop: 31348, Start Num: 59
Candidate Starts for GirlDinner_43:
(Start: 59 @30149 has 106 MA's), (124, 30320), (150, 30389), (192, 30521), (202, 30572), (254, 30803), (255, 30806), (263, 30836), (268, 30854), (272, 30863), (278, 30908), (319, 31142), (337, 31223), (338, 31232), (354, 31319), (357, 31325), (361, 31337),

Gene: Goby_43 Start: 30039, Stop: 31229, Start Num: 59
Candidate Starts for Goby_43:
(Start: 59 @30039 has 106 MA's), (86, 30087), (109, 30153), (110, 30159), (150, 30273), (202, 30456), (222, 30546), (254, 30687), (255, 30690), (259, 30702), (268, 30738), (272, 30747), (278, 30792), (284, 30837), (295, 30891), (300, 30915), (301, 30918), (319, 31026), (338, 31116), (348, 31185),

Gene: GodonK_75 Start: 35421, Stop: 36566, Start Num: 55
Candidate Starts for GodonK_75:
(Start: 46 @35394 has 1 MA's), (Start: 49 @35400 has 1 MA's), (Start: 55 @35421 has 1 MA's), (196, 35772), (208, 35838), (216, 35871), (230, 35910), (250, 35997), (251, 36003), (260, 36036), (261, 36039), (270, 36066), (284, 36159), (290, 36186), (292, 36192), (295, 36204), (318, 36339), (328, 36387), (331, 36411), (344, 36507), (361, 36552),

Gene: Godpower_44 Start: 30022, Stop: 31212, Start Num: 59
Candidate Starts for Godpower_44:
(Start: 59 @30022 has 106 MA's), (86, 30070), (109, 30136), (110, 30142), (150, 30256), (191, 30385), (202, 30439), (222, 30529), (254, 30670), (255, 30673), (259, 30685), (268, 30721), (272, 30730), (274, 30754), (278, 30775), (284, 30820), (295, 30874), (301, 30901), (319, 31009), (338, 31099), (357, 31192),

Gene: Goib_66 Start: 40832, Stop: 41953, Start Num: 85
Candidate Starts for Goib_66:
(Start: 85 @40832 has 11 MA's), (87, 40841), (95, 40853), (133, 40970), (136, 40976), (214, 41258), (230, 41312), (231, 41315), (233, 41324), (242, 41375), (247, 41396), (251, 41414), (259, 41441), (266, 41471), (268, 41477), (285, 41579), (287, 41585), (300, 41645), (302, 41651), (304, 41669), (311, 41714), (334, 41822), (348, 41912), (362, 41948),

Gene: GoldenEssence_157 Start: 107508, Stop: 106180, Start Num: 21
Candidate Starts for GoldenEssence_157:
(Start: 21 @107508 has 8 MA's), (83, 107283), (238, 106785), (255, 106707), (328, 106335),

Gene: Gonephishing_161 Start: 86826, Stop: 88046, Start Num: 48
Candidate Starts for Gonephishing_161:
(Start: 48 @86826 has 250 MA's), (Start: 66 @86874 has 1 MA's), (142, 87075), (154, 87126), (167, 87174), (175, 87201), (198, 87258), (199, 87261), (204, 87291), (207, 87309), (230, 87390), (248, 87468), (250, 87477), (251, 87483), (260, 87516), (292, 87675), (299, 87711), (306, 87747), (313,

87804), (336, 87915), (344, 87987), (346, 87993), (358, 88023),

Gene: GreenWeasel_45 Start: 29713, Stop: 30906, Start Num: 59
Candidate Starts for GreenWeasel_45:
(Start: 59 @29713 has 106 MA's), (67, 29725), (110, 29839), (126, 29887), (140, 29923), (150, 29953), (155, 29974), (199, 30115), (254, 30361), (268, 30412), (272, 30421), (278, 30466), (280, 30493), (284, 30511), (299, 30586), (319, 30700), (337, 30781), (348, 30859), (357, 30883), (361, 30895),

Gene: Gsput1_57 Start: 38283, Stop: 39401, Start Num: 85
Candidate Starts for Gsput1_57:
(Start: 85 @38283 has 11 MA's), (87, 38292), (92, 38301), (118, 38367), (149, 38466), (159, 38499), (166, 38526), (171, 38532), (214, 38706), (229, 38754), (232, 38769), (242, 38823), (246, 38838), (255, 38877), (257, 38883), (263, 38907), (266, 38919), (272, 38934), (273, 38955), (293, 39063), (295, 39069), (300, 39093), (302, 39099), (304, 39117), (311, 39162), (322, 39219), (336, 39276), (340, 39321), (355, 39378),

Gene: Guanica15_35 Start: 27645, Stop: 28853, Start Num: 48
Candidate Starts for Guanica15_35:
(Start: 48 @27645 has 250 MA's), (93, 27747), (130, 27858), (183, 28035), (186, 28041), (198, 28077), (211, 28152), (231, 28218), (234, 28230), (239, 28257), (255, 28332), (266, 28371), (271, 28383), (272, 28386), (284, 28467), (285, 28479), (286, 28482), (289, 28497), (293, 28515), (295, 28521), (300, 28545), (304, 28569), (306, 28578), (307, 28581), (314, 28638), (321, 28668), (329, 28707), (336, 28728), (348, 28812), (355, 28830), (361, 28845),

Gene: Guey18_123 Start: 57884, Stop: 58975, Start Num: 82
Candidate Starts for Guey18_123:
(Start: 82 @57884 has 6 MA's), (91, 57905), (147, 58040), (158, 58076), (162, 58088), (175, 58136), (202, 58211), (214, 58277), (215, 58283), (237, 58364), (259, 58463), (271, 58505), (285, 58601), (292, 58625), (293, 58631), (300, 58661), (303, 58673), (311, 58730), (322, 58787), (353, 58949),

Gene: Guillsminger_34 Start: 28924, Stop: 30141, Start Num: 48
Candidate Starts for Guillsminger_34:
(Start: 48 @28924 has 250 MA's), (54, 28945), (136, 29158), (149, 29206), (198, 29365), (202, 29383), (204, 29398), (214, 29449), (223, 29479), (227, 29488), (231, 29503), (234, 29515), (251, 29605), (255, 29620), (256, 29623), (261, 29641), (266, 29659), (272, 29674), (276, 29707), (284, 29755), (285, 29767), (293, 29803), (300, 29833), (302, 29839), (305, 29860), (306, 29866), (307, 29869), (314, 29926), (321, 29956), (322, 29959), (328, 29989), (345, 30091), (355, 30118), (359, 30127),

Gene: Haizum_45 Start: 30482, Stop: 31684, Start Num: 59
Candidate Starts for Haizum_45:
(Start: 59 @30482 has 106 MA's), (124, 30653), (150, 30722), (155, 30743), (189, 30851), (192, 30857), (202, 30908), (254, 31139), (255, 31142), (263, 31172), (268, 31190), (272, 31199), (278, 31244), (319, 31478), (338, 31568), (354, 31655), (357, 31661), (361, 31673),

Gene: Halley_168 Start: 88225, Stop: 89385, Start Num: 48
Candidate Starts for Halley_168:
(Start: 48 @88225 has 250 MA's), (53, 88243), (64, 88267), (100, 88351), (111, 88381), (165, 88504), (175, 88540), (198, 88597), (199, 88600), (204, 88630), (207, 88648), (230, 88729), (248, 88807), (250, 88816), (251, 88822), (292, 89014), (299, 89050), (306, 89086), (313, 89143), (336, 89254), (344, 89326), (346, 89332), (358, 89362),

Gene: Hammy_34 Start: 28668, Stop: 29801, Start Num: 48
Candidate Starts for Hammy_34:

(Start: 48 @28668 has 250 MA's), (108, 28821), (121, 28857), (183, 28986), (198, 29028), (231, 29166), (234, 29178), (239, 29205), (255, 29280), (272, 29334), (295, 29469), (300, 29493), (302, 29499), (304, 29517), (307, 29529), (314, 29586), (321, 29616), (329, 29655), (336, 29676), (355, 29778), (359, 29787), (361, 29793),

Gene: Hank144_46 Start: 30698, Stop: 31897, Start Num: 59
Candidate Starts for Hank144_46:
(Start: 59 @30698 has 106 MA's), (110, 30824), (140, 30908), (150, 30938), (166, 30998), (192, 31070), (202, 31121), (254, 31352), (255, 31355), (263, 31385), (268, 31403), (272, 31412), (278, 31457), (319, 31691), (337, 31772), (338, 31781), (354, 31868), (357, 31874), (361, 31886),

Gene: Hannaconda_160 Start: 88747, Stop: 89967, Start Num: 48
Candidate Starts for Hannaconda_160:
(Start: 48 @88747 has 250 MA's), (Start: 66 @88795 has 1 MA's), (142, 88996), (154, 89047), (167, 89095), (175, 89122), (198, 89179), (199, 89182), (204, 89212), (207, 89230), (230, 89311), (248, 89389), (250, 89398), (251, 89404), (260, 89437), (292, 89596), (299, 89632), (306, 89668), (313, 89725), (336, 89836), (344, 89908), (346, 89914), (358, 89944),

Gene: HedwigODU_35 Start: 28362, Stop: 29570, Start Num: 48
Candidate Starts for HedwigODU_35:
(Start: 48 @28362 has 250 MA's), (93, 28464), (130, 28575), (183, 28752), (198, 28794), (211, 28869), (231, 28935), (234, 28947), (239, 28974), (255, 29049), (266, 29088), (272, 29103), (284, 29184), (285, 29196), (286, 29199), (289, 29214), (293, 29232), (295, 29238), (300, 29262), (302, 29268), (304, 29286), (306, 29295), (307, 29298), (314, 29355), (321, 29385), (322, 29388), (329, 29424), (336, 29445), (355, 29547), (361, 29562),

Gene: Heftyboy_34 Start: 29070, Stop: 30287, Start Num: 48
Candidate Starts for Heftyboy_34:
(Start: 48 @29070 has 250 MA's), (54, 29091), (136, 29304), (149, 29352), (198, 29511), (202, 29529), (204, 29544), (214, 29595), (223, 29625), (227, 29634), (231, 29649), (234, 29661), (251, 29751), (255, 29766), (256, 29769), (261, 29787), (266, 29805), (276, 29853), (284, 29901), (285, 29913), (293, 29949), (300, 29979), (302, 29985), (305, 30006), (306, 30012), (307, 30015), (311, 30048), (312, 30057), (314, 30072), (321, 30102), (322, 30105), (328, 30135), (355, 30264), (359, 30273),

Gene: Hidrated_157 Start: 89939, Stop: 91099, Start Num: 48
Candidate Starts for Hidrated_157:
(Start: 48 @89939 has 250 MA's), (53, 89957), (64, 89981), (100, 90065), (111, 90095), (165, 90218), (175, 90254), (198, 90311), (199, 90314), (204, 90344), (207, 90362), (230, 90443), (233, 90455), (248, 90521), (251, 90536), (287, 90704), (290, 90722), (299, 90764), (306, 90800), (313, 90857), (317, 90875), (323, 90893), (336, 90968), (344, 91040), (346, 91046), (358, 91076),

Gene: Hippo_43 Start: 29561, Stop: 30751, Start Num: 59
Candidate Starts for Hippo_43:
(Start: 59 @29561 has 106 MA's), (86, 29609), (109, 29675), (110, 29681), (150, 29795), (202, 29978), (254, 30209), (255, 30212), (259, 30224), (268, 30260), (272, 30269), (274, 30293), (278, 30314), (284, 30359), (295, 30413), (300, 30437), (301, 30440), (319, 30548), (338, 30638), (348, 30707),

Gene: HokkenD_162 Start: 90006, Stop: 91166, Start Num: 48
Candidate Starts for HokkenD_162:
(Start: 48 @90006 has 250 MA's), (53, 90024), (64, 90048), (100, 90132), (111, 90162), (165, 90285), (175, 90321), (198, 90378), (199, 90381), (204, 90411), (207, 90429), (230, 90510), (233, 90522), (248, 90588), (251, 90603), (260, 90636), (292, 90795), (299, 90831), (306, 90867), (313, 90924), (336, 91035), (344, 91107), (346, 91113), (358, 91143),

Gene: Homura_35 Start: 28393, Stop: 29601, Start Num: 48
Candidate Starts for Homura_35:
(Start: 39 @28369 has 1 MA's), (Start: 48 @28393 has 250 MA's), (93, 28495), (130, 28606), (161, 28714), (183, 28783), (198, 28825), (211, 28900), (231, 28966), (234, 28978), (239, 29005), (255, 29080), (266, 29119), (272, 29134), (284, 29215), (285, 29227), (286, 29230), (289, 29245), (293, 29263), (295, 29269), (300, 29293), (302, 29299), (304, 29317), (306, 29326), (307, 29329), (314, 29386), (321, 29416), (329, 29455), (336, 29476), (355, 29578), (361, 29593),

Gene: Hortus1_29 Start: 9568, Stop: 10761, Start Num: 72
Candidate Starts for Hortus1_29:
(Start: 72 @9568 has 14 MA's), (124, 9733), (144, 9775), (151, 9805), (201, 9979), (223, 10087), (237, 10141), (251, 10210), (272, 10282), (279, 10336), (285, 10384), (294, 10420), (297, 10435), (300, 10447), (316, 10552), (352, 10735),

Gene: Hubbs_31 Start: 10013, Stop: 11209, Start Num: 72
Candidate Starts for Hubbs_31:
(Start: 29 @9863 has 1 MA's), (31, 9887), (40, 9941), (Start: 49 @9959 has 1 MA's), (Start: 72 @10013 has 14 MA's), (96, 10079), (124, 10178), (131, 10193), (144, 10220), (148, 10235), (151, 10250), (206, 10460), (223, 10532), (267, 10715), (272, 10727), (301, 10898), (316, 11000), (361, 11204),

Gene: Huffy_66 Start: 39716, Stop: 40840, Start Num: 85
Candidate Starts for Huffy_66:
(50, 39641), (Start: 85 @39716 has 11 MA's), (87, 39725), (95, 39737), (136, 39860), (215, 40151), (233, 40211), (242, 40262), (247, 40283), (251, 40301), (259, 40328), (266, 40358), (268, 40364), (287, 40472), (300, 40532), (311, 40601), (334, 40709), (348, 40799), (362, 40835),

Gene: Hughesyang_166 Start: 88707, Stop: 89867, Start Num: 48
Candidate Starts for Hughesyang_166:
(Start: 48 @88707 has 250 MA's), (53, 88725), (64, 88749), (100, 88833), (111, 88863), (165, 88986), (175, 89022), (198, 89079), (199, 89082), (204, 89112), (207, 89130), (230, 89211), (248, 89289), (250, 89298), (251, 89304), (260, 89337), (292, 89496), (299, 89532), (306, 89568), (313, 89625), (336, 89736), (344, 89808), (346, 89814), (358, 89844),

Gene: Hurricane_36 Start: 29220, Stop: 30350, Start Num: 48
Candidate Starts for Hurricane_36:
(Start: 48 @29220 has 250 MA's), (54, 29238), (65, 29262), (121, 29409), (183, 29535), (198, 29577), (211, 29652), (231, 29715), (234, 29727), (251, 29814), (284, 29964), (293, 30012), (295, 30018), (300, 30042), (305, 30069), (307, 30078), (314, 30135), (321, 30165), (322, 30168), (329, 30204), (336, 30225), (338, 30240), (355, 30327), (359, 30336), (361, 30342),

Gene: Hydra_45 Start: 29744, Stop: 30934, Start Num: 59
Candidate Starts for Hydra_45:
(38, 29681), (Start: 59 @29744 has 106 MA's), (86, 29792), (109, 29858), (150, 29978), (202, 30161), (222, 30251), (254, 30392), (255, 30395), (259, 30407), (268, 30443), (272, 30452), (274, 30476), (278, 30497), (300, 30620), (301, 30623), (319, 30731), (338, 30821), (360, 30923),

Gene: Hyperbowlee_35 Start: 28393, Stop: 29601, Start Num: 48
Candidate Starts for Hyperbowlee_35:
(Start: 39 @28369 has 1 MA's), (Start: 48 @28393 has 250 MA's), (93, 28495), (130, 28606), (183, 28783), (198, 28825), (211, 28900), (224, 28942), (231, 28966), (234, 28978), (239, 29005), (255, 29080), (266, 29119), (272, 29134), (284, 29215), (285, 29227), (286, 29230), (289, 29245), (293, 29263), (295, 29269), (300, 29293), (302, 29299), (304, 29317), (306, 29326), (307, 29329), (314,

29386), (321, 29416), (329, 29455), (336, 29476), (355, 29578), (361, 29593),

Gene: Illumine_35 Start: 28390, Stop: 29598, Start Num: 48
Candidate Starts for Illumine_35:
(Start: 48 @28390 has 250 MA's), (93, 28492), (130, 28603), (136, 28621), (183, 28780), (198, 28822), (211, 28897), (231, 28963), (234, 28975), (239, 29002), (255, 29077), (266, 29116), (271, 29128), (272, 29131), (284, 29212), (285, 29224), (286, 29227), (289, 29242), (293, 29260), (295, 29266), (300, 29290), (302, 29296), (304, 29314), (306, 29323), (307, 29326), (314, 29383), (321, 29413), (322, 29416), (329, 29452), (355, 29575), (361, 29590),

Gene: Indigo_42 Start: 29212, Stop: 30402, Start Num: 59
Candidate Starts for Indigo_42:
(38, 29149), (Start: 59 @29212 has 106 MA's), (86, 29260), (109, 29326), (139, 29413), (150, 29446), (202, 29629), (222, 29719), (254, 29860), (255, 29863), (259, 29875), (268, 29911), (272, 29920), (274, 29944), (278, 29965), (300, 30088), (301, 30091), (319, 30199), (338, 30289), (360, 30391),

Gene: Inky_35 Start: 28393, Stop: 29601, Start Num: 48
Candidate Starts for Inky_35:
(Start: 39 @28369 has 1 MA's), (Start: 48 @28393 has 250 MA's), (93, 28495), (130, 28606), (161, 28714), (183, 28783), (198, 28825), (211, 28900), (231, 28966), (234, 28978), (239, 29005), (255, 29080), (266, 29119), (272, 29134), (284, 29215), (285, 29227), (286, 29230), (289, 29245), (293, 29263), (295, 29269), (300, 29293), (302, 29299), (304, 29317), (306, 29326), (307, 29329), (314, 29386), (321, 29416), (329, 29455), (336, 29476), (355, 29578), (361, 29593),

Gene: InvictusManeo_34 Start: 29002, Stop: 30216, Start Num: 48
Candidate Starts for InvictusManeo_34:
(Start: 48 @29002 has 250 MA's), (54, 29020), (136, 29233), (149, 29281), (198, 29440), (203, 29464), (214, 29524), (223, 29554), (227, 29563), (231, 29578), (234, 29590), (255, 29695), (256, 29698), (261, 29716), (272, 29749), (276, 29782), (284, 29830), (285, 29842), (293, 29878), (300, 29908), (302, 29914), (305, 29935), (306, 29941), (307, 29944), (314, 30001), (321, 30031), (322, 30034), (345, 30166), (349, 30178), (355, 30193), (359, 30202),

Gene: Issmi_45 Start: 31069, Stop: 32271, Start Num: 59
Candidate Starts for Issmi_45:
(Start: 59 @31069 has 106 MA's), (124, 31240), (150, 31309), (155, 31330), (166, 31366), (189, 31435), (191, 31441), (202, 31495), (225, 31594), (254, 31726), (255, 31729), (268, 31777), (272, 31786), (274, 31810), (278, 31831), (319, 32065), (338, 32155), (354, 32242), (357, 32248), (361, 32260),

Gene: Itza_45 Start: 30099, Stop: 31292, Start Num: 60
Candidate Starts for Itza_45:
(Start: 60 @30099 has 5 MA's), (104, 30198), (109, 30219), (110, 30225), (150, 30339), (155, 30360), (165, 30396), (199, 30501), (202, 30516), (231, 30636), (244, 30708), (254, 30747), (255, 30750), (268, 30798), (272, 30807), (274, 30831), (276, 30840), (278, 30852), (319, 31086), (336, 31161), (338, 31176), (345, 31236), (361, 31281),

Gene: Izzy_44 Start: 29585, Stop: 30772, Start Num: 59
Candidate Starts for Izzy_44:
(Start: 59 @29585 has 106 MA's), (109, 29702), (110, 29708), (122, 29747), (134, 29783), (150, 29822), (185, 29939), (190, 29945), (202, 29999), (255, 30233), (268, 30281), (284, 30380), (300, 30458), (301, 30461), (305, 30485), (319, 30569), (338, 30659),

Gene: JAWS_35 Start: 28347, Stop: 29555, Start Num: 48

Candidate Starts for JAWS_35:
(Start: 48 @28347 has 250 MA's), (93, 28449), (130, 28560), (183, 28737), (198, 28779), (211, 28854), (231, 28920), (234, 28932), (239, 28959), (255, 29034), (266, 29073), (272, 29088), (284, 29169), (285, 29181), (286, 29184), (289, 29199), (293, 29217), (300, 29247), (302, 29253), (304, 29271), (306, 29280), (307, 29283), (314, 29340), (321, 29370), (329, 29409), (336, 29430), (355, 29532), (361, 29547),

Gene: JF1_36 Start: 29432, Stop: 30622, Start Num: 48
Candidate Starts for JF1_36:
(Start: 48 @29432 has 250 MA's), (108, 29588), (120, 29618), (130, 29648), (161, 29735), (164, 29747), (198, 29843), (202, 29861), (214, 29927), (231, 29981), (242, 30041), (243, 30050), (247, 30065), (254, 30095), (255, 30098), (271, 30149), (272, 30152), (284, 30233), (293, 30281), (295, 30287), (300, 30311), (302, 30317), (305, 30338), (311, 30383), (322, 30440), (346, 30575), (359, 30608), (361, 30614), (362, 30617),

Gene: Jace_84 Start: 45853, Stop: 47001, Start Num: 81
Candidate Starts for Jace_84:
(47, 45766), (69, 45826), (74, 45832), (Start: 81 @45853 has 1 MA's), (92, 45880), (111, 45940), (143, 46036), (181, 46171), (196, 46219), (198, 46225), (205, 46258), (211, 46297), (217, 46318), (231, 46363), (233, 46372), (242, 46423), (251, 46462), (256, 46480), (281, 46603), (283, 46609), (295, 46669), (304, 46717), (310, 46759), (311, 46762), (313, 46780), (316, 46795), (322, 46819), (333, 46864),

Gene: Jacko_33 Start: 10099, Stop: 11292, Start Num: 72
Candidate Starts for Jacko_33:
(Start: 72 @10099 has 14 MA's), (96, 10165), (117, 10240), (124, 10264), (144, 10306), (151, 10336), (198, 10501), (201, 10510), (237, 10672), (241, 10702), (269, 10807), (272, 10813), (279, 10867), (294, 10951), (301, 10981), (302, 10984), (306, 11011), (316, 11083), (324, 11113), (347, 11248), (361, 11287),

Gene: Janus_44 Start: 30489, Stop: 31688, Start Num: 59
Candidate Starts for Janus_44:
(Start: 59 @30489 has 106 MA's), (124, 30660), (150, 30729), (192, 30861), (202, 30912), (254, 31143), (255, 31146), (263, 31176), (268, 31194), (272, 31203), (278, 31248), (319, 31482), (337, 31563), (338, 31572), (354, 31659), (357, 31665), (361, 31677),

Gene: Jarvi_35 Start: 28393, Stop: 29601, Start Num: 48
Candidate Starts for Jarvi_35:
(Start: 39 @28369 has 1 MA's), (Start: 48 @28393 has 250 MA's), (93, 28495), (130, 28606), (161, 28714), (183, 28783), (198, 28825), (211, 28900), (231, 28966), (234, 28978), (239, 29005), (255, 29080), (266, 29119), (272, 29134), (284, 29215), (285, 29227), (286, 29230), (289, 29245), (293, 29263), (295, 29269), (300, 29293), (302, 29299), (304, 29317), (306, 29326), (307, 29329), (314, 29386), (321, 29416), (329, 29455), (336, 29476), (355, 29578), (361, 29593),

Gene: Jash_44 Start: 29538, Stop: 30725, Start Num: 59
Candidate Starts for Jash_44:
(Start: 59 @29538 has 106 MA's), (109, 29655), (110, 29661), (122, 29700), (134, 29736), (150, 29775), (185, 29892), (190, 29898), (202, 29952), (255, 30186), (268, 30234), (284, 30333), (300, 30411), (301, 30414), (305, 30438), (319, 30522), (338, 30612),

Gene: Jayhawk_35 Start: 28360, Stop: 29568, Start Num: 48
Candidate Starts for Jayhawk_35:

(Start: 48 @28360 has 250 MA's), (93, 28462), (130, 28573), (183, 28750), (198, 28792), (211, 28867), (231, 28933), (234, 28945), (239, 28972), (255, 29047), (266, 29086), (272, 29101), (284, 29182), (285, 29194), (286, 29197), (289, 29212), (293, 29230), (295, 29236), (300, 29260), (302, 29266), (304, 29284), (306, 29293), (307, 29296), (314, 29353), (321, 29383), (322, 29386), (329, 29422), (336, 29443), (355, 29545), (361, 29560),

Gene: Jeckyll_35 Start: 28393, Stop: 29601, Start Num: 48
Candidate Starts for Jeckyll_35:
(Start: 39 @28369 has 1 MA's), (Start: 48 @28393 has 250 MA's), (93, 28495), (130, 28606), (161, 28714), (183, 28783), (198, 28825), (211, 28900), (231, 28966), (234, 28978), (239, 29005), (255, 29080), (266, 29119), (272, 29134), (284, 29215), (285, 29227), (286, 29230), (289, 29245), (293, 29263), (295, 29269), (300, 29293), (302, 29299), (304, 29317), (306, 29326), (307, 29329), (314, 29386), (321, 29416), (329, 29455), (336, 29476), (355, 29578), (361, 29593),

Gene: Jevington_46 Start: 30880, Stop: 32070, Start Num: 59
Candidate Starts for Jevington_46:
(Start: 59 @30880 has 106 MA's), (104, 30979), (109, 31000), (110, 31006), (124, 31051), (140, 31090), (150, 31120), (155, 31141), (175, 31210), (188, 31237), (199, 31279), (202, 31294), (254, 31525), (255, 31528), (263, 31558), (268, 31576), (305, 31780), (319, 31864), (321, 31879), (337, 31945), (338, 31954), (348, 32023), (354, 32041), (357, 32047),

Gene: Jhitchelle_42 Start: 30346, Stop: 31533, Start Num: 59
Candidate Starts for Jhitchelle_42:
(Start: 59 @30346 has 106 MA's), (84, 30391), (104, 30442), (109, 30463), (110, 30469), (117, 30490), (150, 30583), (155, 30604), (190, 30706), (192, 30712), (202, 30760), (207, 30790), (244, 30952), (254, 30991), (255, 30994), (263, 31024), (268, 31042), (278, 31096), (295, 31195), (302, 31225), (338, 31420), (360, 31522),

Gene: Joy99_35 Start: 28322, Stop: 29530, Start Num: 48
Candidate Starts for Joy99_35:
(Start: 39 @28298 has 1 MA's), (Start: 48 @28322 has 250 MA's), (93, 28424), (130, 28535), (161, 28643), (183, 28712), (198, 28754), (211, 28829), (231, 28895), (234, 28907), (239, 28934), (255, 29009), (266, 29048), (272, 29063), (284, 29144), (285, 29156), (286, 29159), (289, 29174), (293, 29192), (295, 29198), (300, 29222), (302, 29228), (304, 29246), (306, 29255), (307, 29258), (314, 29315), (321, 29345), (329, 29384), (336, 29405), (355, 29507), (361, 29522),

Gene: JuicyJay_162 Start: 89653, Stop: 90813, Start Num: 48
Candidate Starts for JuicyJay_162:
(Start: 48 @89653 has 250 MA's), (53, 89671), (64, 89695), (100, 89779), (111, 89809), (165, 89932), (175, 89968), (198, 90025), (199, 90028), (204, 90058), (207, 90076), (230, 90157), (233, 90169), (248, 90235), (251, 90250), (260, 90283), (292, 90442), (299, 90478), (306, 90514), (313, 90571), (336, 90682), (344, 90754), (346, 90760), (358, 90790),

Gene: Juliette_38 Start: 29591, Stop: 30781, Start Num: 48
Candidate Starts for Juliette_38:
(Start: 48 @29591 has 250 MA's), (108, 29747), (120, 29777), (130, 29807), (161, 29894), (164, 29906), (198, 30002), (202, 30020), (214, 30086), (231, 30140), (242, 30200), (243, 30209), (247, 30224), (254, 30254), (255, 30257), (271, 30308), (272, 30311), (284, 30392), (293, 30440), (295, 30446), (300, 30470), (302, 30476), (305, 30497), (311, 30542), (322, 30599), (346, 30734), (359, 30767), (361, 30773), (362, 30776),

Gene: KSunshine22_164 Start: 111315, Stop: 109888, Start Num: 12
Candidate Starts for KSunshine22_164:

(3, 111417), (8, 111381), (11, 111324), (Start: 12 @111315 has 9 MA's), (13, 111279), (32, 111111), (33, 111108), (77, 111036), (184, 110739), (198, 110688), (248, 110478), (250, 110469), (302, 110220), (310, 110160), (345, 109947),

Gene: Kaine_43 Start: 30618, Stop: 31805, Start Num: 59
Candidate Starts for Kaine_43:
(Start: 59 @30618 has 106 MA's), (104, 30714), (109, 30735), (110, 30741), (117, 30762), (150, 30855), (155, 30876), (190, 30978), (192, 30984), (202, 31032), (244, 31224), (254, 31263), (255, 31266), (263, 31296), (268, 31314), (278, 31368), (284, 31413), (295, 31467), (338, 31692), (360, 31794),

Gene: Kalah2_164 Start: 89991, Stop: 91151, Start Num: 48
Candidate Starts for Kalah2_164:
(Start: 48 @89991 has 250 MA's), (53, 90009), (64, 90033), (100, 90117), (111, 90147), (165, 90270), (175, 90306), (198, 90363), (199, 90366), (204, 90396), (207, 90414), (230, 90495), (248, 90573), (250, 90582), (251, 90588), (292, 90780), (299, 90816), (306, 90852), (313, 90909), (336, 91020), (344, 91092), (346, 91098), (358, 91128),

Gene: KashFlow_165 Start: 88560, Stop: 89780, Start Num: 48
Candidate Starts for KashFlow_165:
(Start: 48 @88560 has 250 MA's), (Start: 66 @88608 has 1 MA's), (142, 88809), (154, 88860), (167, 88908), (175, 88935), (198, 88992), (199, 88995), (204, 89025), (207, 89043), (216, 89085), (230, 89124), (248, 89202), (250, 89211), (251, 89217), (260, 89250), (292, 89409), (299, 89445), (306, 89481), (313, 89538), (336, 89649), (344, 89721), (346, 89727), (358, 89757),

Gene: Katalie_43 Start: 29753, Stop: 30946, Start Num: 59
Candidate Starts for Katalie_43:
(Start: 59 @29753 has 106 MA's), (86, 29801), (109, 29867), (110, 29873), (150, 29987), (166, 30047), (193, 30128), (202, 30173), (222, 30263), (254, 30404), (255, 30407), (259, 30419), (268, 30455), (272, 30464), (278, 30509), (284, 30554), (295, 30608), (300, 30632), (301, 30635), (319, 30743), (338, 30833), (357, 30926), (360, 30935),

Gene: Keelan_120 Start: 57423, Stop: 58517, Start Num: 82
Candidate Starts for Keelan_120:
(Start: 82 @57423 has 6 MA's), (91, 57444), (147, 57579), (162, 57627), (214, 57819), (224, 57852), (226, 57858), (259, 58005), (271, 58047), (285, 58143), (292, 58167), (293, 58173), (300, 58203), (303, 58215), (305, 58230), (311, 58272), (322, 58329), (353, 58491),

Gene: Keiki_26 Start: 19265, Stop: 18219, Start Num: 107
Candidate Starts for Keiki_26:
(Start: 107 @19265 has 45 MA's), (170, 19073), (198, 18986), (236, 18830), (239, 18815), (253, 18746), (255, 18740), (256, 18737), (260, 18722), (274, 18662), (280, 18617), (298, 18530), (303, 18512), (323, 18401), (338, 18332), (345, 18272),

Gene: Keshu_36 Start: 29208, Stop: 30341, Start Num: 48
Candidate Starts for Keshu_36:
(Start: 48 @29208 has 250 MA's), (231, 29706), (234, 29718), (239, 29745), (255, 29820), (284, 29955), (286, 29970), (293, 30003), (295, 30009), (300, 30033), (305, 30060), (307, 30069), (314, 30126), (315, 30132), (355, 30318), (359, 30327), (361, 30333),

Gene: Kheparia_37 Start: 28302, Stop: 29510, Start Num: 48
Candidate Starts for Kheparia_37:

(Start: 48 @28302 has 250 MA's), (93, 28404), (130, 28515), (136, 28533), (183, 28692), (198, 28734), (211, 28809), (231, 28875), (234, 28887), (239, 28914), (254, 28986), (255, 28989), (266, 29028), (271, 29040), (272, 29043), (284, 29124), (285, 29136), (286, 29139), (293, 29172), (295, 29178), (300, 29202), (302, 29208), (304, 29226), (306, 29235), (307, 29238), (314, 29295), (321, 29325), (329, 29364), (336, 29385), (355, 29487), (361, 29502), (362, 29505),

Gene: KiSi_35 Start: 27982, Stop: 29109, Start Num: 48
Candidate Starts for KiSi_35:
(Start: 48 @27982 has 250 MA's), (65, 28024), (121, 28171), (183, 28297), (198, 28336), (211, 28411), (231, 28474), (234, 28486), (239, 28513), (252, 28576), (255, 28588), (260, 28606), (272, 28642), (275, 28672), (284, 28723), (285, 28735), (289, 28753), (293, 28771), (295, 28777), (300, 28801), (302, 28807), (307, 28837), (314, 28894), (328, 28957), (336, 28984), (338, 28999), (348, 29068), (355, 29086), (361, 29101),

Gene: Klein_171 Start: 88330, Stop: 89490, Start Num: 48
Candidate Starts for Klein_171:
(Start: 48 @88330 has 250 MA's), (53, 88348), (64, 88372), (100, 88456), (111, 88486), (165, 88609), (175, 88645), (198, 88702), (199, 88705), (204, 88735), (207, 88753), (230, 88834), (248, 88912), (250, 88921), (251, 88927), (260, 88960), (292, 89119), (299, 89155), (306, 89191), (313, 89248), (336, 89359), (344, 89431), (346, 89437), (358, 89467),

Gene: Kratio_33 Start: 28633, Stop: 29847, Start Num: 48
Candidate Starts for Kratio_33:
(45, 28627), (Start: 48 @28633 has 250 MA's), (54, 28651), (136, 28864), (149, 28912), (198, 29071), (203, 29095), (214, 29155), (223, 29185), (227, 29194), (231, 29209), (234, 29221), (255, 29326), (256, 29329), (261, 29347), (272, 29380), (276, 29413), (284, 29461), (285, 29473), (293, 29509), (300, 29539), (302, 29545), (305, 29566), (306, 29572), (307, 29575), (314, 29632), (321, 29662), (322, 29665), (345, 29797), (349, 29809), (355, 29824), (359, 29833),

Gene: Kraw_36 Start: 29357, Stop: 30547, Start Num: 48
Candidate Starts for Kraw_36:
(Start: 48 @29357 has 250 MA's), (108, 29513), (120, 29543), (130, 29573), (161, 29660), (164, 29672), (198, 29768), (202, 29786), (214, 29852), (231, 29906), (242, 29966), (243, 29975), (247, 29990), (254, 30020), (255, 30023), (271, 30074), (272, 30077), (284, 30158), (293, 30206), (295, 30212), (300, 30236), (302, 30242), (305, 30263), (311, 30308), (322, 30365), (346, 30500), (359, 30533), (361, 30539), (362, 30542),

Gene: Krueger_35 Start: 27546, Stop: 28754, Start Num: 48
Candidate Starts for Krueger_35:
(Start: 48 @27546 has 250 MA's), (54, 27564), (93, 27648), (130, 27759), (136, 27777), (152, 27840), (183, 27939), (198, 27981), (231, 28119), (234, 28131), (239, 28158), (255, 28233), (272, 28287), (284, 28368), (293, 28416), (295, 28422), (300, 28446), (304, 28470), (305, 28473), (314, 28539), (336, 28629), (361, 28746),

Gene: Kubed_26 Start: 19311, Stop: 18268, Start Num: 107
Candidate Starts for Kubed_26:
(Start: 107 @19311 has 45 MA's), (138, 19221), (198, 19035), (236, 18879), (239, 18864), (253, 18795), (255, 18789), (256, 18786), (260, 18771), (298, 18579), (303, 18561), (323, 18450), (338, 18381), (345, 18321),

Gene: Kudefre_116 Start: 63427, Stop: 64569, Start Num: 75
Candidate Starts for Kudefre_116:

(Start: 75 @63427 has 8 MA's), (78, 63436), (119, 63559), (202, 63808), (209, 63853), (211, 63865), (217, 63886), (232, 63937), (237, 63958), (238, 63967), (239, 63970), (266, 64087), (271, 64099), (276, 64135), (284, 64183), (285, 64195), (295, 64237), (300, 64261), (302, 64267), (306, 64294), (311, 64330), (315, 64360), (322, 64387), (345, 64519), (346, 64522), (349, 64531), (359, 64555), (361, 64561),

Gene: Lannister_45 Start: 30215, Stop: 31405, Start Num: 59
Candidate Starts for Lannister_45:
(Start: 59 @30215 has 106 MA's), (86, 30263), (109, 30329), (150, 30449), (202, 30632), (222, 30722), (254, 30863), (255, 30866), (259, 30878), (264, 30899), (268, 30914), (272, 30923), (274, 30947), (278, 30968), (284, 31013), (295, 31067), (300, 31091), (301, 31094), (319, 31202), (338, 31292), (348, 31361), (352, 31376),

Gene: Larva_35 Start: 28797, Stop: 30011, Start Num: 48
Candidate Starts for Larva_35:
(45, 28791), (Start: 48 @28797 has 250 MA's), (54, 28815), (136, 29028), (149, 29076), (171, 29148), (198, 29235), (203, 29259), (214, 29319), (223, 29349), (227, 29358), (231, 29373), (234, 29385), (251, 29475), (252, 29478), (255, 29490), (256, 29493), (261, 29511), (272, 29544), (276, 29577), (284, 29625), (285, 29637), (293, 29673), (300, 29703), (302, 29709), (306, 29736), (307, 29739), (314, 29796), (321, 29826), (345, 29961), (349, 29973), (355, 29988), (359, 29997),

Gene: LastHope_35 Start: 27530, Stop: 28738, Start Num: 48
Candidate Starts for LastHope_35:
(Start: 48 @27530 has 250 MA's), (93, 27632), (108, 27683), (130, 27743), (136, 27761), (161, 27851), (183, 27920), (198, 27962), (211, 28037), (231, 28103), (234, 28115), (239, 28142), (255, 28217), (266, 28256), (271, 28268), (272, 28271), (284, 28352), (285, 28364), (286, 28367), (289, 28382), (293, 28400), (295, 28406), (300, 28430), (302, 28436), (304, 28454), (306, 28463), (307, 28466), (314, 28523), (329, 28592), (336, 28613), (355, 28715), (361, 28730),

Gene: LaterM_35 Start: 28307, Stop: 29515, Start Num: 48
Candidate Starts for LaterM_35:
(Start: 48 @28307 has 250 MA's), (93, 28409), (130, 28520), (136, 28538), (183, 28697), (198, 28739), (211, 28814), (231, 28880), (234, 28892), (239, 28919), (255, 28994), (266, 29033), (271, 29045), (272, 29048), (284, 29129), (285, 29141), (286, 29144), (289, 29159), (293, 29177), (295, 29183), (300, 29207), (302, 29213), (304, 29231), (306, 29240), (307, 29243), (314, 29300), (321, 29330), (322, 29333), (329, 29369), (355, 29492), (361, 29507),

Gene: Lauchelly_26 Start: 19372, Stop: 18326, Start Num: 107
Candidate Starts for Lauchelly_26:
(Start: 107 @19372 has 45 MA's), (211, 19018), (236, 18937), (239, 18922), (247, 18880), (253, 18853), (255, 18847), (256, 18844), (260, 18829), (274, 18769), (298, 18637), (303, 18619), (323, 18508), (338, 18439), (345, 18379),

Gene: Laure_171 Start: 105099, Stop: 103924, Start Num: 62
Candidate Starts for Laure_171:
(Start: 12 @105360 has 9 MA's), (22, 105231), (25, 105222), (41, 105135), (62, 105099), (193, 104751), (248, 104514), (310, 104196), (344, 103986), (345, 103983),

Gene: Lavahound_33 Start: 28332, Stop: 29465, Start Num: 48
Candidate Starts for Lavahound_33:
(Start: 48 @28332 has 250 MA's), (121, 28521), (175, 28626), (183, 28647), (198, 28692), (211, 28767), (234, 28842), (238, 28866), (255, 28944), (266, 28983), (272, 28998), (284, 29079), (295, 29133), (300, 29157), (304, 29181), (307, 29193), (314, 29250), (321, 29280), (329, 29319), (336,

29340), (338, 29355), (362, 29460),

Gene: LeMond_35 Start: 28053, Stop: 29180, Start Num: 48
Candidate Starts for LeMond_35:
(Start: 48 @28053 has 250 MA's), (65, 28095), (121, 28242), (183, 28368), (198, 28407), (211, 28482), (231, 28545), (234, 28557), (239, 28584), (252, 28647), (255, 28659), (260, 28677), (272, 28713), (275, 28743), (284, 28794), (285, 28806), (289, 28824), (293, 28842), (295, 28848), (300, 28872), (302, 28878), (307, 28908), (314, 28965), (328, 29028), (336, 29055), (338, 29070), (348, 29139), (355, 29157), (361, 29172),

Gene: Lea83_36 Start: 29278, Stop: 30408, Start Num: 48
Candidate Starts for Lea83_36:
(Start: 48 @29278 has 250 MA's), (54, 29296), (65, 29320), (121, 29467), (183, 29593), (198, 29635), (211, 29710), (231, 29773), (234, 29785), (251, 29872), (284, 30022), (293, 30070), (295, 30076), (300, 30100), (305, 30127), (307, 30136), (314, 30193), (321, 30223), (329, 30262), (336, 30283), (338, 30298), (355, 30385), (359, 30394), (361, 30400),

Gene: Lebo14_36 Start: 29446, Stop: 30636, Start Num: 48
Candidate Starts for Lebo14_36:
(Start: 48 @29446 has 250 MA's), (108, 29602), (120, 29632), (130, 29662), (161, 29749), (198, 29857), (214, 29941), (231, 29995), (242, 30055), (243, 30064), (247, 30079), (255, 30112), (271, 30163), (272, 30166), (284, 30247), (293, 30295), (295, 30301), (300, 30325), (302, 30331), (305, 30352), (311, 30397), (322, 30454), (346, 30589), (348, 30595), (359, 30622), (361, 30628), (362, 30631),

Gene: Legacy_43 Start: 29187, Stop: 30377, Start Num: 59
Candidate Starts for Legacy_43:
(38, 29124), (Start: 59 @29187 has 106 MA's), (86, 29235), (109, 29301), (150, 29421), (202, 29604), (222, 29694), (254, 29835), (255, 29838), (259, 29850), (268, 29886), (272, 29895), (274, 29919), (278, 29940), (300, 30063), (301, 30066), (319, 30174), (338, 30264), (360, 30366),

Gene: LeoJr_171 Start: 114050, Stop: 112527, Start Num: 12
Candidate Starts for LeoJr_171:
(11, 114059), (Start: 12 @114050 has 9 MA's), (13, 114014), (16, 113978), (23, 113924), (34, 113819), (41, 113795), (70, 113723), (77, 113714), (128, 113555), (137, 113534), (156, 113477), (184, 113378), (211, 113252), (248, 113117), (292, 112901), (310, 112799), (345, 112586), (348, 112577),

Gene: Leston_34 Start: 29054, Stop: 30271, Start Num: 48
Candidate Starts for Leston_34:
(Start: 48 @29054 has 250 MA's), (54, 29075), (136, 29288), (149, 29336), (198, 29495), (202, 29513), (204, 29528), (214, 29579), (223, 29609), (227, 29618), (231, 29633), (234, 29645), (251, 29735), (255, 29750), (256, 29753), (261, 29771), (266, 29789), (272, 29804), (276, 29837), (284, 29885), (285, 29897), (293, 29933), (300, 29963), (302, 29969), (305, 29990), (306, 29996), (307, 29999), (314, 30056), (321, 30086), (322, 30089), (328, 30119), (345, 30221), (355, 30248), (359, 30257),

Gene: Leviosa_26 Start: 19363, Stop: 18320, Start Num: 107
Candidate Starts for Leviosa_26:
(Start: 107 @19363 has 45 MA's), (236, 18931), (239, 18916), (247, 18874), (253, 18847), (255, 18841), (256, 18838), (260, 18823), (266, 18802), (280, 18718), (298, 18631), (303, 18613), (323, 18502), (338, 18433), (345, 18373),

Gene: Leviticus_43 Start: 29216, Stop: 30406, Start Num: 59
Candidate Starts for Leviticus_43:

(38, 29153), (Start: 59 @29216 has 106 MA's), (86, 29264), (109, 29330), (139, 29417), (150, 29450), (202, 29633), (222, 29723), (254, 29864), (255, 29867), (259, 29879), (268, 29915), (272, 29924), (274, 29948), (278, 29969), (300, 30092), (301, 30095), (319, 30203), (338, 30293), (360, 30395),

Gene: Lika_43 Start: 30025, Stop: 31215, Start Num: 59
Candidate Starts for Lika_43:
(Start: 59 @30025 has 106 MA's), (86, 30073), (109, 30139), (110, 30145), (150, 30259), (191, 30388), (202, 30442), (222, 30532), (254, 30673), (255, 30676), (259, 30688), (268, 30724), (272, 30733), (274, 30757), (278, 30778), (284, 30823), (295, 30877), (301, 30904), (319, 31012), (338, 31102), (357, 31195),

Gene: LilBandit_26 Start: 19151, Stop: 18105, Start Num: 107
Candidate Starts for LilBandit_26:
(Start: 107 @19151 has 45 MA's), (138, 19061), (198, 18872), (236, 18716), (239, 18701), (253, 18632), (255, 18626), (256, 18623), (260, 18608), (274, 18548), (280, 18503), (298, 18416), (323, 18287), (338, 18218), (345, 18158),

Gene: LilDirt_33 Start: 28759, Stop: 29973, Start Num: 48
Candidate Starts for LilDirt_33:
(Start: 48 @28759 has 250 MA's), (54, 28777), (136, 28990), (149, 29038), (198, 29197), (203, 29221), (214, 29281), (223, 29311), (227, 29320), (231, 29335), (234, 29347), (255, 29452), (256, 29455), (261, 29473), (272, 29506), (276, 29539), (284, 29587), (285, 29599), (293, 29635), (300, 29665), (302, 29671), (305, 29692), (306, 29698), (307, 29701), (314, 29758), (321, 29788), (322, 29791), (345, 29923), (349, 29935), (355, 29950), (359, 29959),

Gene: LilJank_115 Start: 65701, Stop: 66828, Start Num: 75
Candidate Starts for LilJank_115:
(Start: 75 @65701 has 8 MA's), (111, 65803), (127, 65836), (198, 66049), (231, 66190), (235, 66205), (237, 66217), (239, 66229), (256, 66307), (266, 66346), (272, 66361), (275, 66391), (276, 66394), (285, 66454), (287, 66460), (292, 66484), (293, 66490), (295, 66496), (300, 66520), (306, 66553), (311, 66589), (314, 66613), (325, 66661), (349, 66790), (350, 66793), (359, 66814), (361, 66820), (362, 66823),

Gene: LilPharaoh_31 Start: 27784, Stop: 28920, Start Num: 48
Candidate Starts for LilPharaoh_31:
(Start: 48 @27784 has 250 MA's), (65, 27826), (86, 27871), (105, 27928), (121, 27973), (171, 28060), (191, 28117), (211, 28219), (231, 28285), (234, 28297), (238, 28321), (239, 28324), (255, 28399), (262, 28426), (266, 28438), (272, 28453), (284, 28534), (285, 28546), (293, 28582), (300, 28612), (302, 28618), (304, 28636), (306, 28645), (307, 28648), (321, 28735), (328, 28768), (329, 28774), (336, 28795), (355, 28897), (362, 28915),

Gene: LindNT_35 Start: 28323, Stop: 29531, Start Num: 48
Candidate Starts for LindNT_35:
(Start: 48 @28323 has 250 MA's), (93, 28425), (130, 28536), (136, 28554), (183, 28713), (198, 28755), (211, 28830), (231, 28896), (234, 28908), (239, 28935), (255, 29010), (266, 29049), (271, 29061), (272, 29064), (284, 29145), (285, 29157), (289, 29175), (293, 29193), (295, 29199), (300, 29223), (302, 29229), (306, 29256), (307, 29259), (314, 29316), (321, 29346), (329, 29385), (336, 29406), (355, 29508), (361, 29523),

Gene: LittleE_175 Start: 89583, Stop: 90803, Start Num: 48
Candidate Starts for LittleE_175:
(Start: 48 @89583 has 250 MA's), (Start: 66 @89631 has 1 MA's), (142, 89832), (154, 89883), (167, 89931), (175, 89958), (198, 90015), (199, 90018), (204, 90048), (207, 90066), (216, 90108), (230,

90147), (248, 90225), (250, 90234), (251, 90240), (260, 90273), (292, 90432), (299, 90468), (306, 90504), (313, 90561), (336, 90672), (344, 90744), (346, 90750), (358, 90780),

Gene: Llorens_35 Start: 28393, Stop: 29601, Start Num: 48
Candidate Starts for Llorens_35:
(Start: 39 @28369 has 1 MA's), (Start: 48 @28393 has 250 MA's), (93, 28495), (130, 28606), (161, 28714), (183, 28783), (198, 28825), (211, 28900), (231, 28966), (234, 28978), (239, 29005), (255, 29080), (266, 29119), (272, 29134), (284, 29215), (285, 29227), (286, 29230), (289, 29245), (293, 29263), (295, 29269), (300, 29293), (302, 29299), (304, 29317), (306, 29326), (307, 29329), (314, 29386), (321, 29416), (329, 29455), (336, 29476), (355, 29578), (361, 29593),

Gene: Lokum_35 Start: 28394, Stop: 29602, Start Num: 48
Candidate Starts for Lokum_35:
(Start: 39 @28370 has 1 MA's), (Start: 48 @28394 has 250 MA's), (93, 28496), (130, 28607), (161, 28715), (183, 28784), (198, 28826), (211, 28901), (231, 28967), (234, 28979), (239, 29006), (255, 29081), (266, 29120), (272, 29135), (284, 29216), (285, 29228), (286, 29231), (289, 29246), (293, 29264), (295, 29270), (300, 29294), (302, 29300), (304, 29318), (306, 29327), (307, 29330), (314, 29387), (321, 29417), (329, 29456), (336, 29477), (355, 29579), (361, 29594),

Gene: Loofah_45 Start: 30872, Stop: 32077, Start Num: 59
Candidate Starts for Loofah_45:
(Start: 59 @30872 has 106 MA's), (104, 30971), (110, 30998), (140, 31082), (150, 31112), (155, 31133), (189, 31241), (202, 31301), (207, 31331), (210, 31352), (222, 31391), (231, 31421), (254, 31532), (255, 31535), (263, 31565), (268, 31583), (274, 31616), (278, 31637), (305, 31787), (319, 31871), (320, 31880), (338, 31961), (357, 32054),

Gene: Lorelei_44 Start: 30076, Stop: 31266, Start Num: 59
Candidate Starts for Lorelei_44:
(Start: 59 @30076 has 106 MA's), (86, 30124), (109, 30190), (110, 30196), (150, 30310), (202, 30493), (222, 30583), (254, 30724), (255, 30727), (259, 30739), (268, 30775), (272, 30784), (274, 30808), (278, 30829), (284, 30874), (295, 30928), (300, 30952), (301, 30955), (305, 30979), (319, 31063), (322, 31081), (338, 31153), (348, 31222),

Gene: Lucky2013_164 Start: 85080, Stop: 86300, Start Num: 48
Candidate Starts for Lucky2013_164:
(Start: 48 @85080 has 250 MA's), (Start: 66 @85128 has 1 MA's), (142, 85329), (154, 85380), (167, 85428), (175, 85455), (198, 85512), (199, 85515), (204, 85545), (207, 85563), (216, 85605), (230, 85644), (248, 85722), (250, 85731), (251, 85737), (260, 85770), (292, 85929), (299, 85965), (306, 86001), (313, 86058), (336, 86169), (344, 86241), (346, 86247), (358, 86277),

Gene: Lunahalos_35 Start: 28393, Stop: 29601, Start Num: 48
Candidate Starts for Lunahalos_35:
(Start: 39 @28369 has 1 MA's), (45, 28387), (Start: 48 @28393 has 250 MA's), (93, 28495), (130, 28606), (161, 28714), (183, 28783), (198, 28825), (211, 28900), (231, 28966), (234, 28978), (239, 29005), (255, 29080), (266, 29119), (272, 29134), (284, 29215), (285, 29227), (286, 29230), (289, 29245), (293, 29263), (295, 29269), (300, 29293), (302, 29299), (304, 29317), (306, 29326), (307, 29329), (314, 29386), (321, 29416), (329, 29455), (336, 29476), (355, 29578), (361, 29593),

Gene: Lupine_30 Start: 9685, Stop: 10881, Start Num: 72
Candidate Starts for Lupine_30:
(Start: 29 @9535 has 1 MA's), (31, 9559), (40, 9613), (Start: 49 @9631 has 1 MA's), (Start: 72 @9685 has 14 MA's), (96, 9751), (124, 9850), (131, 9865), (144, 9892), (148, 9907), (151, 9922), (206, 10132), (223, 10204), (301, 10570), (316, 10672), (361, 10876),

Gene: MEAK_26 Start: 19317, Stop: 18271, Start Num: 107
Candidate Starts for MEAK_26:
(Start: 107 @19317 has 45 MA's), (170, 19125), (198, 19038), (211, 18963), (236, 18882), (239, 18867), (247, 18825), (253, 18798), (255, 18792), (256, 18789), (260, 18774), (274, 18714), (298, 18582), (303, 18564), (323, 18453), (338, 18384), (345, 18324),

Gene: MacKat_35 Start: 28370, Stop: 29578, Start Num: 48
Candidate Starts for MacKat_35:
(Start: 39 @28346 has 1 MA's), (Start: 48 @28370 has 250 MA's), (93, 28472), (130, 28583), (183, 28760), (198, 28802), (211, 28877), (231, 28943), (234, 28955), (239, 28982), (255, 29057), (266, 29096), (272, 29111), (284, 29192), (285, 29204), (286, 29207), (289, 29222), (293, 29240), (300, 29270), (302, 29276), (304, 29294), (306, 29303), (307, 29306), (314, 29363), (321, 29393), (329, 29432), (336, 29453), (355, 29555), (361, 29570),

Gene: MacnCheese_36 Start: 29261, Stop: 30394, Start Num: 48
Candidate Starts for MacnCheese_36:
(Start: 48 @29261 has 250 MA's), (93, 29363), (121, 29450), (183, 29579), (198, 29621), (231, 29759), (234, 29771), (238, 29795), (239, 29798), (255, 29873), (266, 29912), (284, 30008), (293, 30056), (295, 30062), (300, 30086), (305, 30113), (307, 30122), (314, 30179), (315, 30185), (342, 30332), (355, 30371), (359, 30380), (361, 30386),

Gene: MalagasyRose_35 Start: 27663, Stop: 28874, Start Num: 48
Candidate Starts for MalagasyRose_35:
(42, 27651), (45, 27657), (Start: 48 @27663 has 250 MA's), (93, 27765), (130, 27876), (136, 27894), (175, 28032), (187, 28062), (193, 28080), (204, 28131), (214, 28182), (231, 28236), (234, 28248), (251, 28338), (252, 28341), (255, 28353), (256, 28356), (259, 28365), (266, 28392), (271, 28404), (272, 28407), (284, 28488), (287, 28506), (300, 28566), (302, 28572), (304, 28590), (305, 28593), (306, 28599), (307, 28602), (314, 28659), (322, 28692), (327, 28719), (348, 28833), (349, 28836), (359, 28860), (362, 28869),

Gene: Malthus_37 Start: 29357, Stop: 30547, Start Num: 48
Candidate Starts for Malthus_37:
(Start: 48 @29357 has 250 MA's), (108, 29513), (120, 29543), (130, 29573), (161, 29660), (164, 29672), (198, 29768), (202, 29786), (214, 29852), (231, 29906), (242, 29966), (243, 29975), (247, 29990), (254, 30020), (255, 30023), (271, 30074), (272, 30077), (284, 30158), (293, 30206), (295, 30212), (300, 30236), (302, 30242), (305, 30263), (311, 30308), (322, 30365), (346, 30500), (359, 30533), (361, 30539), (362, 30542),

Gene: Maneekul_43 Start: 29580, Stop: 30770, Start Num: 59
Candidate Starts for Maneekul_43:
(Start: 59 @29580 has 106 MA's), (86, 29628), (109, 29694), (150, 29814), (202, 29997), (222, 30087), (254, 30228), (255, 30231), (259, 30243), (268, 30279), (272, 30288), (274, 30312), (278, 30333), (284, 30378), (295, 30432), (301, 30459), (319, 30567), (338, 30657),

Gene: Marav_47 Start: 31202, Stop: 32392, Start Num: 59
Candidate Starts for Marav_47:
(Start: 59 @31202 has 106 MA's), (104, 31301), (109, 31322), (110, 31328), (124, 31373), (140, 31412), (150, 31442), (155, 31463), (199, 31601), (202, 31616), (254, 31847), (255, 31850), (263, 31880), (268, 31898), (305, 32102), (319, 32186), (337, 32267), (338, 32276), (348, 32345), (354, 32363), (357, 32369),

Gene: Marcoliusprime_34 Start: 27629, Stop: 28813, Start Num: 48

Candidate Starts for Marcoliusprime_34:
(Start: 48 @27629 has 250 MA's), (Start: 60 @27662 has 5 MA's), (120, 27812), (130, 27842), (175, 27974), (211, 28115), (231, 28178), (255, 28292), (256, 28295), (293, 28475), (300, 28505), (302, 28511), (305, 28532), (306, 28538), (314, 28598), (321, 28628), (336, 28688), (355, 28790), (362, 28808),

Gene: MarkPhew_36 Start: 27954, Stop: 29081, Start Num: 48
Candidate Starts for MarkPhew_36:
(Start: 48 @27954 has 250 MA's), (76, 28014), (183, 28269), (211, 28383), (231, 28446), (234, 28458), (238, 28482), (239, 28485), (252, 28548), (255, 28560), (260, 28578), (272, 28614), (275, 28644), (284, 28695), (285, 28707), (295, 28749), (300, 28773), (302, 28779), (304, 28797), (306, 28806), (314, 28866), (328, 28929), (336, 28956), (338, 28971), (355, 29058), (361, 29073),

Gene: Marleymoo_154 Start: 86843, Stop: 88003, Start Num: 48
Candidate Starts for Marleymoo_154:
(Start: 48 @86843 has 250 MA's), (53, 86861), (64, 86885), (80, 86918), (100, 86969), (111, 86999), (165, 87122), (175, 87158), (198, 87215), (199, 87218), (204, 87248), (207, 87266), (230, 87347), (248, 87425), (250, 87434), (251, 87440), (292, 87632), (299, 87668), (306, 87704), (313, 87761), (336, 87872), (344, 87944), (346, 87950), (358, 87980),

Gene: Marshawn_37 Start: 28595, Stop: 29722, Start Num: 48
Candidate Starts for Marshawn_37:
(Start: 39 @28571 has 1 MA's), (Start: 48 @28595 has 250 MA's), (65, 28637), (121, 28784), (183, 28910), (198, 28949), (202, 28967), (231, 29087), (234, 29099), (238, 29123), (239, 29126), (252, 29189), (255, 29201), (260, 29219), (266, 29240), (272, 29255), (275, 29285), (284, 29336), (285, 29348), (289, 29366), (295, 29390), (300, 29414), (302, 29420), (305, 29441), (307, 29450), (314, 29507), (336, 29597), (338, 29612), (355, 29699), (361, 29714),

Gene: McMater_35 Start: 27680, Stop: 28810, Start Num: 48
Candidate Starts for McMater_35:
(Start: 48 @27680 has 250 MA's), (65, 27722), (Start: 85 @27764 has 11 MA's), (121, 27869), (183, 27995), (198, 28037), (211, 28112), (231, 28175), (234, 28187), (238, 28211), (239, 28214), (255, 28289), (266, 28328), (271, 28340), (272, 28343), (284, 28424), (285, 28436), (293, 28472), (300, 28502), (302, 28508), (304, 28526), (306, 28535), (307, 28538), (321, 28625), (329, 28664), (336, 28685), (355, 28787), (361, 28802),

Gene: Mdavu_31 Start: 27772, Stop: 28908, Start Num: 48
Candidate Starts for Mdavu_31:
(Start: 48 @27772 has 250 MA's), (65, 27814), (86, 27859), (105, 27916), (121, 27961), (171, 28048), (191, 28105), (211, 28207), (231, 28273), (234, 28285), (238, 28309), (239, 28312), (255, 28387), (262, 28414), (266, 28426), (272, 28441), (284, 28522), (285, 28534), (293, 28570), (300, 28600), (302, 28606), (304, 28624), (306, 28633), (307, 28636), (321, 28723), (328, 28756), (329, 28762), (336, 28783), (355, 28885), (362, 28903),

Gene: MeaningOfLife_35 Start: 28338, Stop: 29546, Start Num: 48
Candidate Starts for MeaningOfLife_35:
(Start: 48 @28338 has 250 MA's), (93, 28440), (108, 28491), (130, 28551), (175, 28707), (198, 28770), (211, 28845), (231, 28911), (234, 28923), (239, 28950), (255, 29025), (266, 29064), (272, 29079), (284, 29160), (285, 29172), (286, 29175), (289, 29190), (293, 29208), (295, 29214), (300, 29238), (302, 29244), (304, 29262), (306, 29271), (307, 29274), (314, 29331), (321, 29361), (329, 29400), (336, 29421), (355, 29523), (361, 29538),

Gene: Megsy_35 Start: 28326, Stop: 29534, Start Num: 48

Candidate Starts for Megsy_35:
(Start: 48 @28326 has 250 MA's), (93, 28428), (130, 28539), (136, 28557), (183, 28716), (198, 28758), (211, 28833), (231, 28899), (234, 28911), (239, 28938), (255, 29013), (266, 29052), (271, 29064), (272, 29067), (284, 29148), (285, 29160), (286, 29163), (289, 29178), (293, 29196), (295, 29202), (300, 29226), (302, 29232), (304, 29250), (306, 29259), (307, 29262), (314, 29319), (321, 29349), (329, 29388), (336, 29409), (355, 29511), (361, 29526),

Gene: MiaZeal_171 Start: 86227, Stop: 87447, Start Num: 48
Candidate Starts for MiaZeal_171:
(Start: 48 @86227 has 250 MA's), (Start: 66 @86275 has 1 MA's), (154, 86527), (167, 86575), (175, 86602), (198, 86659), (199, 86662), (204, 86692), (207, 86710), (230, 86791), (248, 86869), (250, 86878), (251, 86884), (260, 86917), (292, 87076), (299, 87112), (306, 87148), (313, 87205), (336, 87316), (344, 87388), (346, 87394), (358, 87424),

Gene: Milly_34 Start: 27602, Stop: 28786, Start Num: 48
Candidate Starts for Milly_34:
(Start: 48 @27602 has 250 MA's), (Start: 60 @27635 has 5 MA's), (120, 27785), (130, 27815), (175, 27947), (211, 28088), (231, 28151), (237, 28178), (239, 28190), (255, 28265), (256, 28268), (293, 28448), (300, 28478), (302, 28484), (305, 28505), (306, 28511), (314, 28571), (321, 28601), (336, 28661), (355, 28763), (362, 28781),

Gene: Mimi_170 Start: 113574, Stop: 112246, Start Num: 21
Candidate Starts for Mimi_170:
(Start: 21 @113574 has 8 MA's), (83, 113349), (238, 112851), (255, 112773), (328, 112401),

Gene: Minerva_167 Start: 88071, Stop: 89231, Start Num: 48
Candidate Starts for Minerva_167:
(Start: 48 @88071 has 250 MA's), (53, 88089), (64, 88113), (100, 88197), (111, 88227), (165, 88350), (175, 88386), (198, 88443), (199, 88446), (204, 88476), (207, 88494), (230, 88575), (248, 88653), (250, 88662), (251, 88668), (292, 88860), (299, 88896), (306, 88932), (313, 88989), (336, 89100), (344, 89172), (346, 89178), (358, 89208),

Gene: Miryou_34 Start: 28909, Stop: 30126, Start Num: 48
Candidate Starts for Miryou_34:
(Start: 48 @28909 has 250 MA's), (54, 28930), (136, 29143), (149, 29191), (198, 29350), (202, 29368), (204, 29383), (214, 29434), (222, 29461), (223, 29464), (227, 29473), (231, 29488), (234, 29500), (251, 29590), (255, 29605), (256, 29608), (261, 29626), (266, 29644), (276, 29692), (284, 29740), (285, 29752), (293, 29788), (300, 29818), (302, 29824), (305, 29845), (306, 29851), (307, 29854), (314, 29911), (321, 29941), (322, 29944), (345, 30076), (355, 30103), (359, 30112),

Gene: MissDaisy_36 Start: 29200, Stop: 30390, Start Num: 48
Candidate Starts for MissDaisy_36:
(Start: 48 @29200 has 250 MA's), (108, 29356), (120, 29386), (130, 29416), (161, 29503), (198, 29611), (214, 29695), (231, 29749), (242, 29809), (243, 29818), (247, 29833), (255, 29866), (271, 29917), (272, 29920), (284, 30001), (293, 30049), (295, 30055), (300, 30079), (302, 30085), (303, 30091), (305, 30106), (311, 30151), (322, 30208), (346, 30343), (348, 30349), (359, 30376), (361, 30382), (362, 30385),

Gene: Mitti_36 Start: 29358, Stop: 30548, Start Num: 48
Candidate Starts for Mitti_36:
(Start: 48 @29358 has 250 MA's), (108, 29514), (120, 29544), (130, 29574), (161, 29661), (198, 29769), (214, 29853), (231, 29907), (242, 29967), (243, 29976), (247, 29991), (255, 30024), (271, 30075), (272, 30078), (284, 30159), (293, 30207), (295, 30213), (300, 30237), (302, 30243), (305,

30264), (311, 30309), (322, 30366), (346, 30501), (348, 30507), (359, 30534), (361, 30540), (362, 30543),

Gene: Moyashi_26 Start: 19421, Stop: 18375, Start Num: 107
Candidate Starts for Moyashi_26:
(Start: 107 @19421 has 45 MA's), (138, 19331), (211, 19067), (236, 18986), (239, 18971), (253, 18902), (255, 18896), (256, 18893), (280, 18773), (298, 18686), (303, 18668), (323, 18557), (338, 18488), (345, 18428),

Gene: MrAK_26 Start: 19430, Stop: 18384, Start Num: 107
Candidate Starts for MrAK_26:
(Start: 107 @19430 has 45 MA's), (138, 19340), (236, 18995), (239, 18980), (253, 18911), (255, 18905), (256, 18902), (260, 18887), (280, 18782), (298, 18695), (303, 18677), (323, 18566), (338, 18497), (345, 18437),

Gene: Mufasa_35 Start: 27710, Stop: 28894, Start Num: 48
Candidate Starts for Mufasa_35:
(Start: 48 @27710 has 250 MA's), (Start: 60 @27743 has 5 MA's), (120, 27893), (130, 27923), (175, 28055), (198, 28121), (211, 28196), (231, 28259), (237, 28286), (239, 28298), (255, 28373), (256, 28376), (293, 28556), (300, 28586), (302, 28592), (305, 28613), (306, 28619), (314, 28679), (321, 28709), (336, 28769), (362, 28889),

Gene: Murucutumbu_35 Start: 28326, Stop: 29534, Start Num: 48
Candidate Starts for Murucutumbu_35:
(Start: 48 @28326 has 250 MA's), (93, 28428), (130, 28539), (136, 28557), (183, 28716), (198, 28758), (211, 28833), (231, 28899), (234, 28911), (239, 28938), (255, 29013), (266, 29052), (271, 29064), (272, 29067), (284, 29148), (285, 29160), (286, 29163), (289, 29178), (293, 29196), (295, 29202), (300, 29226), (302, 29232), (304, 29250), (306, 29259), (307, 29262), (314, 29319), (321, 29349), (329, 29388), (355, 29511), (361, 29526),

Gene: Mynx_35 Start: 28376, Stop: 29584, Start Num: 48
Candidate Starts for Mynx_35:
(Start: 48 @28376 has 250 MA's), (93, 28478), (130, 28589), (183, 28766), (198, 28808), (211, 28883), (231, 28949), (234, 28961), (239, 28988), (255, 29063), (266, 29102), (272, 29117), (284, 29198), (285, 29210), (286, 29213), (289, 29228), (293, 29246), (300, 29276), (302, 29282), (304, 29300), (306, 29309), (307, 29312), (314, 29369), (321, 29399), (329, 29438), (336, 29459), (355, 29561), (361, 29576),

Gene: Nabi_44 Start: 30076, Stop: 31266, Start Num: 59
Candidate Starts for Nabi_44:
(Start: 59 @30076 has 106 MA's), (86, 30124), (109, 30190), (110, 30196), (150, 30310), (202, 30493), (222, 30583), (254, 30724), (255, 30727), (259, 30739), (268, 30775), (272, 30784), (274, 30808), (278, 30829), (284, 30874), (295, 30928), (300, 30952), (301, 30955), (305, 30979), (319, 31063), (322, 31081), (338, 31153), (348, 31222),

Gene: Nanodon_45 Start: 29859, Stop: 31049, Start Num: 59
Candidate Starts for Nanodon_45:
(37, 29790), (Start: 59 @29859 has 106 MA's), (86, 29907), (90, 29919), (109, 29973), (150, 30093), (174, 30171), (192, 30225), (193, 30231), (202, 30276), (222, 30366), (254, 30507), (255, 30510), (259, 30522), (268, 30558), (272, 30567), (278, 30612), (284, 30657), (319, 30846), (338, 30936), (360, 31038),

Gene: Neighly_35 Start: 28796, Stop: 30010, Start Num: 48

Candidate Starts for Neighly_35:
(45, 28790), (Start: 48 @28796 has 250 MA's), (54, 28814), (136, 29027), (149, 29075), (171, 29147), (198, 29234), (203, 29258), (214, 29318), (223, 29348), (227, 29357), (231, 29372), (234, 29384), (251, 29474), (252, 29477), (255, 29489), (256, 29492), (261, 29510), (272, 29543), (276, 29576), (284, 29624), (285, 29636), (293, 29672), (300, 29702), (302, 29708), (306, 29735), (307, 29738), (314, 29795), (321, 29825), (345, 29960), (349, 29972), (355, 29987), (359, 29996),

Gene: Nekros_166 Start: 88027, Stop: 89247, Start Num: 48
Candidate Starts for Nekros_166:
(Start: 48 @88027 has 250 MA's), (Start: 66 @88075 has 1 MA's), (142, 88276), (154, 88327), (167, 88375), (175, 88402), (198, 88459), (199, 88462), (204, 88492), (207, 88510), (230, 88591), (248, 88669), (250, 88678), (251, 88684), (292, 88876), (299, 88912), (306, 88948), (313, 89005), (336, 89116), (344, 89188), (346, 89194), (358, 89224),

Gene: Nerdos_42 Start: 29211, Stop: 30401, Start Num: 59
Candidate Starts for Nerdos_42:
(38, 29148), (Start: 59 @29211 has 106 MA's), (86, 29259), (109, 29325), (139, 29412), (150, 29445), (202, 29628), (222, 29718), (254, 29859), (255, 29862), (259, 29874), (268, 29910), (272, 29919), (274, 29943), (278, 29964), (300, 30087), (301, 30090), (319, 30198), (338, 30288), (360, 30390),

Gene: Nergal_31 Start: 26074, Stop: 27270, Start Num: 48
Candidate Starts for Nergal_31:
(45, 26068), (Start: 48 @26074 has 250 MA's), (120, 26263), (130, 26293), (161, 26380), (198, 26494), (202, 26512), (204, 26527), (231, 26632), (234, 26644), (255, 26749), (295, 26938), (304, 26986), (307, 26998), (309, 27019), (314, 27055), (321, 27085), (326, 27112), (359, 27256), (361, 27262), (362, 27265),

Gene: Neville_113 Start: 64325, Stop: 65452, Start Num: 75
Candidate Starts for Neville_113:
(Start: 75 @64325 has 8 MA's), (111, 64427), (127, 64460), (198, 64673), (231, 64814), (235, 64829), (237, 64841), (239, 64853), (256, 64931), (266, 64970), (272, 64985), (275, 65015), (276, 65018), (285, 65078), (287, 65084), (292, 65108), (295, 65120), (300, 65144), (305, 65171), (306, 65177), (311, 65213), (314, 65237), (325, 65285), (349, 65414), (350, 65417), (359, 65438), (361, 65444), (362, 65447),

Gene: Nibb_34 Start: 27521, Stop: 28648, Start Num: 48
Candidate Starts for Nibb_34:
(Start: 48 @27521 has 250 MA's), (121, 27710), (183, 27836), (211, 27950), (231, 28013), (234, 28025), (239, 28052), (252, 28115), (255, 28127), (260, 28145), (272, 28181), (275, 28211), (284, 28262), (285, 28274), (287, 28280), (289, 28292), (295, 28316), (300, 28340), (302, 28346), (304, 28364), (306, 28373), (307, 28376), (314, 28433), (328, 28496), (336, 28523), (338, 28538), (349, 28610), (355, 28625),

Gene: Nibley_161 Start: 85188, Stop: 86408, Start Num: 48
Candidate Starts for Nibley_161:
(Start: 48 @85188 has 250 MA's), (Start: 66 @85236 has 1 MA's), (142, 85437), (154, 85488), (167, 85536), (175, 85563), (198, 85620), (199, 85623), (204, 85653), (207, 85671), (230, 85752), (248, 85830), (250, 85839), (251, 85845), (260, 85878), (292, 86037), (299, 86073), (306, 86109), (313, 86166), (336, 86277), (344, 86349), (346, 86355), (358, 86385),

Gene: NihilNomen_169 Start: 87779, Stop: 88939, Start Num: 48
Candidate Starts for NihilNomen_169:

(Start: 48 @87779 has 250 MA's), (53, 87797), (64, 87821), (100, 87905), (111, 87935), (165, 88058), (175, 88094), (198, 88151), (199, 88154), (204, 88184), (207, 88202), (230, 88283), (233, 88295), (248, 88361), (251, 88376), (260, 88409), (292, 88568), (299, 88604), (306, 88640), (313, 88697), (336, 88808), (344, 88880), (346, 88886), (358, 88916),

Gene: Nikao_31 Start: 27784, Stop: 28920, Start Num: 48
Candidate Starts for Nikao_31:
(Start: 48 @27784 has 250 MA's), (65, 27826), (86, 27871), (105, 27928), (121, 27973), (171, 28060), (191, 28117), (211, 28219), (231, 28285), (234, 28297), (238, 28321), (239, 28324), (255, 28399), (262, 28426), (266, 28438), (272, 28453), (284, 28534), (285, 28546), (293, 28582), (300, 28612), (302, 28618), (304, 28636), (306, 28645), (307, 28648), (321, 28735), (328, 28768), (329, 28774), (336, 28795), (355, 28897), (362, 28915),

Gene: Niklas_35 Start: 27683, Stop: 28813, Start Num: 48
Candidate Starts for Niklas_35:
(Start: 48 @27683 has 250 MA's), (65, 27725), (Start: 85 @27767 has 11 MA's), (121, 27872), (183, 27998), (198, 28040), (231, 28178), (234, 28190), (238, 28214), (239, 28217), (255, 28292), (266, 28331), (271, 28343), (272, 28346), (284, 28427), (285, 28439), (293, 28475), (300, 28505), (302, 28511), (304, 28529), (306, 28538), (307, 28541), (321, 28628), (329, 28667), (336, 28688), (355, 28790), (361, 28805),

Gene: Nishikigoi_45 Start: 30482, Stop: 31684, Start Num: 59
Candidate Starts for Nishikigoi_45:
(Start: 59 @30482 has 106 MA's), (124, 30653), (150, 30722), (155, 30743), (189, 30851), (192, 30857), (202, 30908), (254, 31139), (255, 31142), (263, 31172), (268, 31190), (272, 31199), (278, 31244), (319, 31478), (338, 31568), (354, 31655), (357, 31661), (361, 31673),

Gene: Nolwazi_37 Start: 29358, Stop: 30548, Start Num: 48
Candidate Starts for Nolwazi_37:
(Start: 48 @29358 has 250 MA's), (108, 29514), (120, 29544), (130, 29574), (161, 29661), (198, 29769), (214, 29853), (231, 29907), (242, 29967), (243, 29976), (247, 29991), (255, 30024), (271, 30075), (272, 30078), (284, 30159), (293, 30207), (295, 30213), (300, 30237), (302, 30243), (305, 30264), (311, 30309), (322, 30366), (346, 30501), (348, 30507), (359, 30534), (361, 30540), (362, 30543),

Gene: November_33 Start: 28596, Stop: 29729, Start Num: 48
Candidate Starts for November_33:
(Start: 48 @28596 has 250 MA's), (108, 28749), (121, 28785), (183, 28914), (231, 29094), (234, 29106), (239, 29133), (255, 29208), (272, 29262), (289, 29373), (293, 29391), (295, 29397), (300, 29421), (302, 29427), (304, 29445), (307, 29457), (314, 29514), (329, 29583), (336, 29604), (355, 29706), (359, 29715), (361, 29721),

Gene: Nutello_31 Start: 27784, Stop: 28920, Start Num: 48
Candidate Starts for Nutello_31:
(Start: 48 @27784 has 250 MA's), (65, 27826), (86, 27871), (105, 27928), (121, 27973), (171, 28060), (191, 28117), (211, 28219), (231, 28285), (234, 28297), (238, 28321), (239, 28324), (255, 28399), (262, 28426), (266, 28438), (272, 28453), (284, 28534), (285, 28546), (293, 28582), (300, 28612), (302, 28618), (304, 28636), (306, 28645), (307, 28648), (321, 28735), (328, 28768), (329, 28774), (336, 28795), (355, 28897), (362, 28915),

Gene: Octobien14_112 Start: 62219, Stop: 63349, Start Num: 75
Candidate Starts for Octobien14_112:

(Start: 75 @62219 has 8 MA's), (78, 62228), (96, 62273), (129, 62369), (130, 62372), (145, 62399), (202, 62588), (209, 62633), (211, 62645), (217, 62666), (223, 62684), (232, 62717), (237, 62738), (238, 62747), (239, 62750), (266, 62867), (271, 62879), (276, 62915), (284, 62963), (285, 62975), (295, 63017), (300, 63041), (302, 63047), (306, 63074), (311, 63110), (315, 63140), (322, 63167), (343, 63290), (345, 63299), (346, 63302), (349, 63311), (359, 63335), (361, 63341),

Gene: Odette_171 Start: 90460, Stop: 91620, Start Num: 48
Candidate Starts for Odette_171:
(Start: 48 @90460 has 250 MA's), (53, 90478), (64, 90502), (100, 90586), (111, 90616), (165, 90739), (175, 90775), (198, 90832), (199, 90835), (204, 90865), (207, 90883), (230, 90964), (248, 91042), (250, 91051), (251, 91057), (292, 91249), (299, 91285), (306, 91321), (313, 91378), (336, 91489), (344, 91561), (346, 91567), (358, 91597),

Gene: OkiRoe_34 Start: 28926, Stop: 30143, Start Num: 48
Candidate Starts for OkiRoe_34:
(Start: 48 @28926 has 250 MA's), (54, 28947), (136, 29160), (149, 29208), (198, 29367), (204, 29400), (214, 29451), (223, 29481), (227, 29490), (231, 29505), (234, 29517), (251, 29607), (255, 29622), (256, 29625), (261, 29643), (272, 29676), (276, 29709), (284, 29757), (285, 29769), (293, 29805), (300, 29835), (302, 29841), (305, 29862), (306, 29868), (307, 29871), (311, 29904), (312, 29913), (314, 29928), (321, 29958), (322, 29961), (328, 29991), (345, 30093), (355, 30120), (359, 30129),

Gene: OlinDD_29 Start: 9567, Stop: 10760, Start Num: 72
Candidate Starts for OlinDD_29:
(Start: 72 @9567 has 14 MA's), (124, 9732), (144, 9774), (151, 9804), (201, 9978), (223, 10086), (237, 10140), (251, 10209), (272, 10281), (279, 10335), (285, 10383), (294, 10419), (297, 10434), (300, 10446), (316, 10551), (352, 10734),

Gene: Oliynyk_44 Start: 29538, Stop: 30725, Start Num: 59
Candidate Starts for Oliynyk_44:
(Start: 59 @29538 has 106 MA's), (109, 29655), (110, 29661), (122, 29700), (134, 29736), (150, 29775), (185, 29892), (190, 29898), (202, 29952), (255, 30186), (268, 30234), (284, 30333), (300, 30411), (301, 30414), (305, 30438), (319, 30522), (338, 30612),

Gene: Olliecat_30 Start: 21912, Stop: 23192, Start Num: 24
Candidate Starts for Olliecat_30:
(Start: 24 @21912 has 3 MA's), (41, 22008), (94, 22116), (96, 22122), (123, 22200), (135, 22227), (137, 22230), (198, 22395), (203, 22419), (218, 22494), (220, 22500), (268, 22683), (272, 22692), (300, 22854), (302, 22860), (308, 22905), (330, 23022),

Gene: Omar_46 Start: 30682, Stop: 31869, Start Num: 59
Candidate Starts for Omar_46:
(Start: 59 @30682 has 106 MA's), (104, 30781), (109, 30802), (110, 30808), (140, 30892), (150, 30922), (155, 30943), (188, 31039), (199, 31081), (202, 31096), (254, 31327), (255, 31330), (263, 31360), (268, 31378), (295, 31531), (319, 31666), (337, 31747), (338, 31756), (348, 31825), (354, 31843), (357, 31849), (361, 31861),

Gene: Omega_176 Start: 90554, Stop: 91774, Start Num: 48
Candidate Starts for Omega_176:
(Start: 48 @90554 has 250 MA's), (Start: 66 @90602 has 1 MA's), (142, 90803), (154, 90854), (167, 90902), (175, 90929), (198, 90986), (199, 90989), (204, 91019), (207, 91037), (230, 91118), (248, 91196), (250, 91205), (251, 91211), (260, 91244), (292, 91403), (299, 91439), (306, 91475), (313, 91532), (336, 91643), (344, 91715), (346, 91721), (358, 91751),

Gene: OmniCritical_36 Start: 29342, Stop: 30532, Start Num: 48
Candidate Starts for OmniCritical_36:
(Start: 48 @29342 has 250 MA's), (108, 29498), (120, 29528), (130, 29558), (161, 29645), (198, 29753), (214, 29837), (231, 29891), (242, 29951), (243, 29960), (247, 29975), (255, 30008), (271, 30059), (272, 30062), (284, 30143), (293, 30191), (295, 30197), (300, 30221), (302, 30227), (305, 30248), (311, 30293), (322, 30350), (346, 30485), (348, 30491), (359, 30518), (361, 30524), (362, 30527),

Gene: Omnicron_35 Start: 27834, Stop: 29048, Start Num: 48
Candidate Starts for Omnicron_35:
(45, 27828), (Start: 48 @27834 has 250 MA's), (119, 28014), (149, 28113), (198, 28272), (203, 28296), (204, 28305), (214, 28356), (220, 28377), (223, 28386), (231, 28410), (234, 28422), (251, 28512), (254, 28524), (255, 28527), (256, 28530), (266, 28566), (276, 28614), (284, 28662), (285, 28674), (293, 28710), (300, 28740), (302, 28746), (304, 28764), (306, 28773), (307, 28776), (314, 28833), (322, 28866), (328, 28896), (345, 28998), (349, 29010), (355, 29025), (359, 29034), (362, 29043),

Gene: Optimus_166 Start: 88986, Stop: 90146, Start Num: 48
Candidate Starts for Optimus_166:
(Start: 48 @88986 has 250 MA's), (53, 89004), (64, 89028), (100, 89112), (111, 89142), (165, 89265), (175, 89301), (198, 89358), (199, 89361), (204, 89391), (207, 89409), (230, 89490), (248, 89568), (250, 89577), (251, 89583), (292, 89775), (299, 89811), (306, 89847), (313, 89904), (336, 90015), (344, 90087), (346, 90093), (358, 90123),

Gene: Oscar_35 Start: 28055, Stop: 29182, Start Num: 48
Candidate Starts for Oscar_35:
(Start: 48 @28055 has 250 MA's), (65, 28097), (121, 28244), (183, 28370), (198, 28409), (211, 28484), (231, 28547), (234, 28559), (239, 28586), (252, 28649), (255, 28661), (260, 28679), (272, 28715), (275, 28745), (284, 28796), (285, 28808), (289, 28826), (293, 28844), (295, 28850), (300, 28874), (302, 28880), (307, 28910), (314, 28967), (328, 29030), (336, 29057), (338, 29072), (348, 29141), (355, 29159), (361, 29174),

Gene: Ouroboros_26 Start: 19334, Stop: 18291, Start Num: 107
Candidate Starts for Ouroboros_26:
(Start: 107 @19334 has 45 MA's), (170, 19142), (211, 18983), (236, 18902), (239, 18887), (247, 18845), (253, 18818), (255, 18812), (256, 18809), (260, 18794), (274, 18734), (280, 18689), (298, 18602), (303, 18584), (323, 18473), (338, 18404), (345, 18344),

Gene: Ozzie_43 Start: 29196, Stop: 30386, Start Num: 59
Candidate Starts for Ozzie_43:
(38, 29133), (Start: 59 @29196 has 106 MA's), (86, 29244), (109, 29310), (150, 29430), (202, 29613), (222, 29703), (254, 29844), (255, 29847), (259, 29859), (268, 29895), (272, 29904), (274, 29928), (278, 29949), (300, 30072), (301, 30075), (319, 30183), (338, 30273), (360, 30375),

Gene: OzzyJ_44 Start: 29549, Stop: 30739, Start Num: 59
Candidate Starts for OzzyJ_44:
(Start: 59 @29549 has 106 MA's), (86, 29597), (109, 29663), (110, 29669), (150, 29783), (202, 29966), (254, 30197), (255, 30200), (259, 30212), (268, 30248), (272, 30257), (274, 30281), (278, 30302), (284, 30347), (295, 30401), (300, 30425), (301, 30428), (319, 30536), (338, 30626), (348, 30695),

Gene: P1.1_26 Start: 19354, Stop: 18308, Start Num: 107
Candidate Starts for P1.1_26:
(Start: 107 @19354 has 45 MA's), (170, 19162), (236, 18919), (239, 18904), (253, 18835), (255, 18829), (256, 18826), (260, 18811), (274, 18751), (280, 18706), (298, 18619), (303, 18601), (323,

18490), (338, 18421), (345, 18361),

Gene: P100.1_26 Start: 19395, Stop: 18349, Start Num: 107
Candidate Starts for P100.1_26:
(63, 19506), (Start: 107 @19395 has 45 MA's), (236, 18960), (239, 18945), (253, 18876), (255, 18870), (256, 18867), (266, 18831), (298, 18660), (323, 18531), (338, 18462), (345, 18402),

Gene: P100A_26 Start: 19358, Stop: 18315, Start Num: 107
Candidate Starts for P100A_26:
(Start: 107 @19358 has 45 MA's), (198, 19082), (236, 18926), (239, 18911), (247, 18869), (253, 18842), (255, 18836), (256, 18833), (260, 18818), (291, 18656), (298, 18626), (303, 18608), (323, 18497), (338, 18428), (345, 18368),

Gene: P100D_26 Start: 19327, Stop: 18281, Start Num: 107
Candidate Starts for P100D_26:
(63, 19438), (Start: 107 @19327 has 45 MA's), (236, 18892), (239, 18877), (247, 18835), (253, 18808), (255, 18802), (256, 18799), (260, 18784), (280, 18679), (298, 18592), (303, 18574), (323, 18463), (338, 18394), (345, 18334),

Gene: P101A_26 Start: 19371, Stop: 18325, Start Num: 107
Candidate Starts for P101A_26:
(63, 19479), (Start: 107 @19371 has 45 MA's), (211, 19017), (236, 18936), (239, 18921), (253, 18852), (255, 18846), (256, 18843), (274, 18768), (280, 18723), (298, 18636), (303, 18618), (323, 18507), (338, 18438), (345, 18378),

Gene: P104A_26 Start: 19128, Stop: 18088, Start Num: 107
Candidate Starts for P104A_26:
(Start: 107 @19128 has 45 MA's), (138, 19038), (211, 18780), (236, 18699), (239, 18684), (247, 18642), (253, 18615), (255, 18609), (256, 18606), (280, 18486), (298, 18399), (303, 18381), (323, 18270), (338, 18201), (345, 18141),

Gene: P104B_26 Start: 19324, Stop: 18278, Start Num: 107
Candidate Starts for P104B_26:
(63, 19435), (Start: 107 @19324 has 45 MA's), (236, 18889), (239, 18874), (253, 18805), (255, 18799), (256, 18796), (260, 18781), (266, 18760), (280, 18676), (298, 18589), (303, 18571), (323, 18460), (338, 18391), (345, 18331),

Gene: P105_26 Start: 19290, Stop: 18244, Start Num: 107
Candidate Starts for P105_26:
(Start: 107 @19290 has 45 MA's), (138, 19200), (236, 18855), (239, 18840), (247, 18798), (253, 18771), (255, 18765), (256, 18762), (298, 18555), (303, 18537), (323, 18426), (338, 18357), (345, 18297),

Gene: P106A_26 Start: 19420, Stop: 18374, Start Num: 107
Candidate Starts for P106A_26:
(63, 19528), (Start: 107 @19420 has 45 MA's), (211, 19066), (236, 18985), (239, 18970), (253, 18901), (255, 18895), (256, 18892), (266, 18856), (298, 18685), (323, 18556), (338, 18487), (345, 18427),

Gene: P106C_27 Start: 19358, Stop: 18312, Start Num: 107
Candidate Starts for P106C_27:
(63, 19466), (Start: 107 @19358 has 45 MA's), (211, 19004), (236, 18923), (239, 18908), (253, 18839), (255, 18833), (256, 18830), (266, 18794), (298, 18623), (323, 18494), (338, 18425), (345, 18365),

Gene: P106I_26 Start: 19187, Stop: 18141, Start Num: 107
Candidate Starts for P106I_26:
(63, 19295), (Start: 107 @19187 has 45 MA's), (211, 18833), (236, 18752), (239, 18737), (253, 18668), (255, 18662), (256, 18659), (266, 18623), (298, 18452), (323, 18323), (338, 18254), (345, 18194),

Gene: P106L_26 Start: 19358, Stop: 18312, Start Num: 107
Candidate Starts for P106L_26:
(63, 19466), (Start: 107 @19358 has 45 MA's), (211, 19004), (236, 18923), (239, 18908), (253, 18839), (255, 18833), (256, 18830), (266, 18794), (298, 18623), (323, 18494), (338, 18425), (345, 18365),

Gene: P106M_26 Start: 19358, Stop: 18312, Start Num: 107
Candidate Starts for P106M_26:
(63, 19466), (Start: 107 @19358 has 45 MA's), (211, 19004), (236, 18923), (239, 18908), (253, 18839), (255, 18833), (256, 18830), (266, 18794), (298, 18623), (323, 18494), (338, 18425), (345, 18365),

Gene: P107A_26 Start: 19377, Stop: 18331, Start Num: 107
Candidate Starts for P107A_26:
(Start: 107 @19377 has 45 MA's), (170, 19185), (198, 19098), (236, 18942), (239, 18927), (253, 18858), (255, 18852), (256, 18849), (274, 18774), (280, 18729), (298, 18642), (303, 18624), (323, 18513), (338, 18444), (345, 18384),

Gene: P107C_26 Start: 19311, Stop: 18265, Start Num: 107
Candidate Starts for P107C_26:
(63, 19422), (Start: 107 @19311 has 45 MA's), (236, 18876), (239, 18861), (247, 18819), (253, 18792), (255, 18786), (256, 18783), (260, 18768), (280, 18663), (298, 18576), (303, 18558), (323, 18447), (338, 18378), (345, 18318),

Gene: P108C_26 Start: 19331, Stop: 18291, Start Num: 107
Candidate Starts for P108C_26:
(Start: 107 @19331 has 45 MA's), (170, 19139), (198, 19058), (236, 18902), (239, 18887), (253, 18818), (255, 18812), (256, 18809), (260, 18794), (274, 18734), (280, 18689), (298, 18602), (303, 18584), (323, 18473), (338, 18404), (345, 18344),

Gene: P14.4_26 Start: 19327, Stop: 18284, Start Num: 107
Candidate Starts for P14.4_26:
(Start: 107 @19327 has 45 MA's), (236, 18895), (239, 18880), (253, 18811), (255, 18805), (256, 18802), (280, 18682), (298, 18595), (303, 18577), (323, 18466), (338, 18397), (345, 18337),

Gene: P9.1_26 Start: 19360, Stop: 18314, Start Num: 107
Candidate Starts for P9.1_26:
(Start: 107 @19360 has 45 MA's), (236, 18925), (239, 18910), (253, 18841), (255, 18835), (256, 18832), (266, 18796), (280, 18712), (298, 18625), (303, 18607), (323, 18496), (338, 18427), (345, 18367),

Gene: PA6_27 Start: 19315, Stop: 18269, Start Num: 107
Candidate Starts for PA6_27:
(63, 19423), (Start: 107 @19315 has 45 MA's), (236, 18880), (239, 18865), (247, 18823), (253, 18796), (255, 18790), (256, 18787), (260, 18772), (266, 18751), (298, 18580), (323, 18451), (338, 18382), (345, 18322),

Gene: PAD20_27 Start: 19098, Stop: 18052, Start Num: 107
Candidate Starts for PAD20_27:

(Start: 107 @19098 has 45 MA's), (236, 18663), (239, 18648), (253, 18579), (255, 18573), (256, 18570), (260, 18555), (280, 18450), (298, 18363), (303, 18345), (323, 18234), (338, 18165), (345, 18105),

Gene: PAS50_27 Start: 19266, Stop: 18220, Start Num: 107
Candidate Starts for PAS50_27:
(Start: 107 @19266 has 45 MA's), (236, 18831), (239, 18816), (247, 18774), (253, 18747), (255, 18741), (256, 18738), (260, 18723), (298, 18531), (303, 18513), (323, 18402), (338, 18333), (345, 18273),

Gene: PHL010M04_26 Start: 19341, Stop: 18298, Start Num: 107
Candidate Starts for PHL010M04_26:
(63, 19446), (Start: 107 @19341 has 45 MA's), (170, 19149), (198, 19065), (236, 18909), (239, 18894), (247, 18852), (253, 18825), (255, 18819), (256, 18816), (260, 18801), (280, 18696), (298, 18609), (303, 18591), (323, 18480), (338, 18411), (345, 18351),

Gene: PHL037M02_26 Start: 19316, Stop: 18270, Start Num: 107
Candidate Starts for PHL037M02_26:
(Start: 107 @19316 has 45 MA's), (211, 18962), (236, 18881), (239, 18866), (253, 18797), (255, 18791), (256, 18788), (274, 18713), (280, 18668), (298, 18581), (303, 18563), (323, 18452), (338, 18383), (345, 18323),

Gene: PHL060L00_26 Start: 19165, Stop: 18119, Start Num: 107
Candidate Starts for PHL060L00_26:
(63, 19276), (Start: 107 @19165 has 45 MA's), (236, 18730), (239, 18715), (253, 18646), (255, 18640), (256, 18637), (260, 18622), (298, 18430), (303, 18412), (323, 18301), (338, 18232), (345, 18172),

Gene: PHL067M10_26 Start: 19289, Stop: 18243, Start Num: 107
Candidate Starts for PHL067M10_26:
(Start: 107 @19289 has 45 MA's), (236, 18854), (239, 18839), (247, 18797), (253, 18770), (255, 18764), (256, 18761), (260, 18746), (274, 18686), (280, 18641), (298, 18554), (323, 18425), (338, 18356), (345, 18296),

Gene: PHL071N05_26 Start: 19351, Stop: 18305, Start Num: 107
Candidate Starts for PHL071N05_26:
(Start: 107 @19351 has 45 MA's), (170, 19159), (236, 18916), (239, 18901), (253, 18832), (255, 18826), (256, 18823), (260, 18808), (274, 18748), (280, 18703), (298, 18616), (303, 18598), (323, 18487), (338, 18418), (345, 18358),

Gene: PHL111M01_26 Start: 19339, Stop: 18293, Start Num: 107
Candidate Starts for PHL111M01_26:
(Start: 107 @19339 has 45 MA's), (211, 18985), (236, 18904), (239, 18889), (247, 18847), (253, 18820), (255, 18814), (256, 18811), (280, 18691), (298, 18604), (303, 18586), (323, 18475), (338, 18406), (345, 18346),

Gene: PHL112N00_26 Start: 19367, Stop: 18324, Start Num: 107
Candidate Starts for PHL112N00_26:
(Start: 107 @19367 has 45 MA's), (138, 19277), (236, 18935), (239, 18920), (247, 18878), (253, 18851), (255, 18845), (256, 18842), (280, 18722), (298, 18635), (323, 18506), (338, 18437), (345, 18377),

Gene: PHL113M01_26 Start: 19385, Stop: 18339, Start Num: 107
Candidate Starts for PHL113M01_26:

(Start: 107 @19385 has 45 MA's), (211, 19031), (236, 18950), (239, 18935), (253, 18866), (255, 18860), (256, 18857), (260, 18842), (280, 18737), (298, 18650), (303, 18632), (323, 18521), (338, 18452), (345, 18392),

Gene: PHL114L00_26 Start: 19308, Stop: 18265, Start Num: 107
Candidate Starts for PHL114L00_26:
(Start: 107 @19308 has 45 MA's), (170, 19116), (198, 19032), (236, 18876), (239, 18861), (247, 18819), (253, 18792), (255, 18786), (256, 18783), (260, 18768), (280, 18663), (298, 18576), (303, 18558), (323, 18447), (338, 18378), (345, 18318),

Gene: Pablito_44 Start: 30267, Stop: 31469, Start Num: 59
Candidate Starts for Pablito_44:
(Start: 59 @30267 has 106 MA's), (124, 30438), (150, 30507), (202, 30693), (207, 30723), (254, 30924), (255, 30927), (263, 30957), (268, 30975), (272, 30984), (276, 31017), (278, 31029), (284, 31074), (319, 31263), (337, 31344), (338, 31353), (348, 31422), (354, 31440), (357, 31446), (361, 31458),

Gene: Padfoot_35 Start: 28393, Stop: 29601, Start Num: 48
Candidate Starts for Padfoot_35:
(Start: 39 @28369 has 1 MA's), (Start: 48 @28393 has 250 MA's), (93, 28495), (130, 28606), (183, 28783), (198, 28825), (211, 28900), (224, 28942), (231, 28966), (234, 28978), (239, 29005), (255, 29080), (266, 29119), (272, 29134), (284, 29215), (285, 29227), (286, 29230), (289, 29245), (293, 29263), (295, 29269), (300, 29293), (302, 29299), (304, 29317), (306, 29326), (307, 29329), (314, 29386), (321, 29416), (329, 29455), (336, 29476), (355, 29578), (361, 29593),

Gene: Padpat_35 Start: 28353, Stop: 29561, Start Num: 48
Candidate Starts for Padpat_35:
(Start: 48 @28353 has 250 MA's), (93, 28455), (130, 28566), (183, 28743), (198, 28785), (211, 28860), (231, 28926), (234, 28938), (239, 28965), (255, 29040), (266, 29079), (272, 29094), (284, 29175), (285, 29187), (286, 29190), (289, 29205), (293, 29223), (295, 29229), (300, 29253), (302, 29259), (304, 29277), (306, 29286), (307, 29289), (314, 29346), (321, 29376), (322, 29379), (329, 29415), (336, 29436), (355, 29538), (361, 29553),

Gene: Paedore_44 Start: 30857, Stop: 32062, Start Num: 59
Candidate Starts for Paedore_44:
(Start: 59 @30857 has 106 MA's), (104, 30956), (110, 30983), (140, 31067), (150, 31097), (155, 31118), (189, 31226), (202, 31286), (207, 31316), (210, 31337), (222, 31376), (231, 31406), (254, 31517), (255, 31520), (263, 31550), (268, 31568), (274, 31601), (278, 31622), (305, 31772), (319, 31856), (320, 31865), (338, 31946), (357, 32039),

Gene: Panchaali_161 Start: 111167, Stop: 109740, Start Num: 12
Candidate Starts for Panchaali_161:
(8, 111233), (11, 111176), (Start: 12 @111167 has 9 MA's), (13, 111131), (32, 110963), (33, 110960), (77, 110888), (175, 110618), (197, 110543), (198, 110540), (248, 110330), (278, 110201), (294, 110105), (307, 110042), (310, 110012), (345, 109799), (348, 109790),

Gene: Paola_34 Start: 28924, Stop: 30141, Start Num: 48
Candidate Starts for Paola_34:
(Start: 48 @28924 has 250 MA's), (54, 28945), (136, 29158), (149, 29206), (198, 29365), (202, 29383), (204, 29398), (214, 29449), (223, 29479), (227, 29488), (231, 29503), (234, 29515), (251, 29605), (255, 29620), (256, 29623), (261, 29641), (266, 29659), (272, 29674), (276, 29707), (284, 29755), (285, 29767), (293, 29803), (300, 29833), (302, 29839), (305, 29860), (306, 29866), (307, 29869), (314, 29926), (321, 29956), (322, 29959), (328, 29989), (345, 30091), (355, 30118), (359, 30127),

Gene: Paolo_46 Start: 31065, Stop: 32255, Start Num: 59
Candidate Starts for Paolo_46:
(Start: 59 @31065 has 106 MA's), (104, 31164), (109, 31185), (110, 31191), (140, 31275), (150, 31305), (155, 31326), (188, 31422), (199, 31464), (202, 31479), (254, 31710), (255, 31713), (263, 31743), (268, 31761), (274, 31794), (278, 31815), (295, 31914), (302, 31944), (305, 31965), (319, 32049), (321, 32064), (337, 32130), (338, 32139), (348, 32208), (354, 32226), (357, 32232),

Gene: Patbob_168 Start: 114130, Stop: 112802, Start Num: 21
Candidate Starts for Patbob_168:
(Start: 21 @114130 has 8 MA's), (83, 113905), (238, 113407), (255, 113329), (328, 112957),

Gene: Patt_36 Start: 29176, Stop: 30366, Start Num: 48
Candidate Starts for Patt_36:
(Start: 48 @29176 has 250 MA's), (108, 29332), (120, 29362), (130, 29392), (161, 29479), (198, 29587), (214, 29671), (231, 29725), (242, 29785), (243, 29794), (247, 29809), (255, 29842), (271, 29893), (272, 29896), (284, 29977), (293, 30025), (295, 30031), (300, 30055), (302, 30061), (303, 30067), (305, 30082), (311, 30127), (322, 30184), (346, 30319), (348, 30325), (359, 30352), (361, 30358), (362, 30361),

Gene: Pavlo_30 Start: 9960, Stop: 11156, Start Num: 72
Candidate Starts for Pavlo_30:
(Start: 29 @9810 has 1 MA's), (31, 9834), (40, 9888), (Start: 49 @9906 has 1 MA's), (Start: 72 @9960 has 14 MA's), (96, 10026), (124, 10125), (131, 10140), (144, 10167), (148, 10182), (151, 10197), (169, 10263), (206, 10407), (223, 10479), (267, 10662), (301, 10845), (316, 10947), (361, 11151),

Gene: Pavo_44 Start: 31067, Stop: 32254, Start Num: 59
Candidate Starts for Pavo_44:
(Start: 59 @31067 has 106 MA's), (104, 31163), (109, 31184), (110, 31190), (117, 31211), (150, 31304), (155, 31325), (190, 31427), (192, 31433), (202, 31481), (244, 31673), (254, 31712), (255, 31715), (263, 31745), (268, 31763), (278, 31817), (284, 31862), (295, 31916), (301, 31943), (338, 32141), (360, 32243),

Gene: Peanam_35 Start: 27680, Stop: 28810, Start Num: 48
Candidate Starts for Peanam_35:
(Start: 48 @27680 has 250 MA's), (65, 27722), (Start: 85 @27764 has 11 MA's), (121, 27869), (183, 27995), (198, 28037), (211, 28112), (231, 28175), (234, 28187), (238, 28211), (239, 28214), (255, 28289), (266, 28328), (271, 28340), (272, 28343), (284, 28424), (285, 28436), (293, 28472), (300, 28502), (302, 28508), (304, 28526), (306, 28535), (307, 28538), (321, 28625), (329, 28664), (336, 28685), (355, 28787), (361, 28802),

Gene: Peel_35 Start: 28393, Stop: 29601, Start Num: 48
Candidate Starts for Peel_35:
(Start: 39 @28369 has 1 MA's), (Start: 48 @28393 has 250 MA's), (93, 28495), (130, 28606), (161, 28714), (183, 28783), (198, 28825), (211, 28900), (231, 28966), (234, 28978), (239, 29005), (255, 29080), (266, 29119), (272, 29134), (284, 29215), (285, 29227), (286, 29230), (289, 29245), (293, 29263), (295, 29269), (300, 29293), (302, 29299), (304, 29317), (306, 29326), (307, 29329), (314, 29386), (321, 29416), (329, 29455), (336, 29476), (355, 29578), (361, 29593),

Gene: Pharb_34 Start: 28523, Stop: 29653, Start Num: 48
Candidate Starts for Pharb_34:
(Start: 48 @28523 has 250 MA's), (105, 28667), (121, 28712), (183, 28838), (198, 28880), (211, 28955), (227, 29003), (231, 29018), (234, 29030), (238, 29054), (251, 29117), (284, 29267), (293,

29315), (295, 29321), (300, 29345), (302, 29351), (305, 29372), (307, 29381), (314, 29438), (329, 29507), (336, 29528), (338, 29543), (355, 29630), (359, 29639), (361, 29645),

Gene: PhelpsODU_35 Start: 27711, Stop: 28919, Start Num: 48
Candidate Starts for PhelpsODU_35:
(Start: 48 @27711 has 250 MA's), (54, 27729), (93, 27813), (130, 27924), (136, 27942), (183, 28104), (198, 28146), (231, 28284), (234, 28296), (239, 28323), (255, 28398), (272, 28452), (284, 28533), (293, 28581), (295, 28587), (300, 28611), (304, 28635), (305, 28638), (321, 28734), (336, 28794), (348, 28878), (355, 28896), (361, 28911),

Gene: Phendrix_73 Start: 35262, Stop: 36434, Start Num: 46
Candidate Starts for Phendrix_73:
(Start: 46 @35262 has 1 MA's), (Start: 49 @35268 has 1 MA's), (Start: 55 @35289 has 1 MA's), (169, 35571), (196, 35640), (208, 35706), (216, 35739), (230, 35778), (250, 35865), (251, 35871), (260, 35904), (270, 35934), (284, 36027), (290, 36054), (292, 36060), (295, 36072), (318, 36207), (328, 36255), (331, 36279), (344, 36375), (361, 36420),

Gene: Phettuccine_43 Start: 29212, Stop: 30402, Start Num: 59
Candidate Starts for Phettuccine_43:
(38, 29149), (Start: 59 @29212 has 106 MA's), (86, 29260), (109, 29326), (139, 29413), (150, 29446), (202, 29629), (222, 29719), (254, 29860), (255, 29863), (259, 29875), (268, 29911), (272, 29920), (274, 29944), (278, 29965), (300, 30088), (301, 30091), (319, 30199), (338, 30289), (360, 30391),

Gene: PhillyPhilly_31 Start: 9865, Stop: 11061, Start Num: 72
Candidate Starts for PhillyPhilly_31:
(Start: 29 @9715 has 1 MA's), (31, 9739), (40, 9793), (Start: 49 @9811 has 1 MA's), (Start: 72 @9865 has 14 MA's), (96, 9931), (124, 10030), (131, 10045), (144, 10072), (148, 10087), (151, 10102), (206, 10312), (223, 10384), (267, 10567), (272, 10579), (301, 10750), (316, 10852), (361, 11056),

Gene: Phoebus_168 Start: 91466, Stop: 92626, Start Num: 48
Candidate Starts for Phoebus_168:
(Start: 48 @91466 has 250 MA's), (53, 91484), (64, 91508), (100, 91592), (111, 91622), (165, 91745), (175, 91781), (198, 91838), (199, 91841), (204, 91871), (207, 91889), (230, 91970), (248, 92048), (250, 92057), (251, 92063), (292, 92255), (299, 92291), (306, 92327), (313, 92384), (336, 92495), (344, 92567), (346, 92573), (358, 92603),

Gene: Phrampa_162 Start: 115709, Stop: 114375, Start Num: 21
Candidate Starts for Phrampa_162:
(Start: 21 @115709 has 8 MA's), (30, 115628), (58, 115520), (112, 115406), (238, 114980), (255, 114902), (328, 114530),

Gene: Phrank_35 Start: 27661, Stop: 28869, Start Num: 48
Candidate Starts for Phrank_35:
(Start: 48 @27661 has 250 MA's), (54, 27679), (93, 27763), (130, 27874), (136, 27892), (183, 28054), (198, 28096), (231, 28234), (234, 28246), (239, 28273), (255, 28348), (272, 28402), (284, 28483), (293, 28531), (295, 28537), (300, 28561), (304, 28585), (305, 28588), (314, 28654), (321, 28684), (336, 28744), (348, 28828), (355, 28846), (361, 28861),

Gene: Piatt_35 Start: 28393, Stop: 29601, Start Num: 48
Candidate Starts for Piatt_35:
(Start: 39 @28369 has 1 MA's), (Start: 48 @28393 has 250 MA's), (93, 28495), (130, 28606), (183, 28783), (198, 28825), (211, 28900), (224, 28942), (231, 28966), (234, 28978), (239, 29005), (255, 29080), (266, 29119), (272, 29134), (284, 29215), (285, 29227), (286, 29230), (289, 29245), (293,

29263), (295, 29269), (300, 29293), (302, 29299), (304, 29317), (306, 29326), (307, 29329), (314, 29386), (321, 29416), (329, 29455), (336, 29476), (355, 29578), (361, 29593),

Gene: Pioneer3_29 Start: 9566, Stop: 10759, Start Num: 72
Candidate Starts for Pioneer3_29:
(Start: 72 @9566 has 14 MA's), (124, 9731), (144, 9773), (151, 9803), (201, 9977), (223, 10085), (237, 10139), (251, 10208), (272, 10280), (279, 10334), (294, 10418), (297, 10433), (300, 10445), (316, 10550), (352, 10733), (361, 10754),

Gene: Pirate_26 Start: 19250, Stop: 18204, Start Num: 107
Candidate Starts for Pirate_26:
(Start: 107 @19250 has 45 MA's), (170, 19058), (198, 18971), (236, 18815), (239, 18800), (253, 18731), (255, 18725), (256, 18722), (260, 18707), (274, 18647), (280, 18602), (298, 18515), (303, 18497), (323, 18386), (338, 18317), (345, 18257),

Gene: Pisa1_34 Start: 28388, Stop: 29596, Start Num: 48
Candidate Starts for Pisa1_34:
(Start: 48 @28388 has 250 MA's), (93, 28490), (130, 28601), (136, 28619), (183, 28778), (198, 28820), (211, 28895), (231, 28961), (234, 28973), (239, 29000), (254, 29072), (255, 29075), (266, 29114), (271, 29126), (272, 29129), (284, 29210), (285, 29222), (286, 29225), (293, 29258), (295, 29264), (300, 29288), (302, 29294), (304, 29312), (306, 29321), (307, 29324), (314, 29381), (329, 29450), (336, 29471), (355, 29573), (361, 29588), (362, 29591),

Gene: Pisa4_34 Start: 28388, Stop: 29596, Start Num: 48
Candidate Starts for Pisa4_34:
(Start: 48 @28388 has 250 MA's), (93, 28490), (130, 28601), (136, 28619), (183, 28778), (198, 28820), (211, 28895), (231, 28961), (234, 28973), (239, 29000), (254, 29072), (255, 29075), (266, 29114), (271, 29126), (272, 29129), (284, 29210), (285, 29222), (286, 29225), (293, 29258), (295, 29264), (300, 29288), (302, 29294), (304, 29312), (306, 29321), (307, 29324), (314, 29381), (329, 29450), (336, 29471), (355, 29573), (361, 29588), (362, 29591),

Gene: Pixie_35 Start: 28762, Stop: 29892, Start Num: 48
Candidate Starts for Pixie_35:
(26, 28627), (Start: 48 @28762 has 250 MA's), (54, 28780), (65, 28804), (121, 28951), (183, 29077), (198, 29119), (211, 29194), (231, 29257), (234, 29269), (238, 29293), (251, 29356), (284, 29506), (293, 29554), (295, 29560), (300, 29584), (305, 29611), (307, 29620), (314, 29677), (321, 29707), (329, 29746), (336, 29767), (338, 29782), (355, 29869), (359, 29878), (361, 29884),

Gene: Platte_29 Start: 9336, Stop: 10529, Start Num: 72
Candidate Starts for Platte_29:
(Start: 72 @9336 has 14 MA's), (124, 9501), (144, 9543), (151, 9573), (201, 9747), (223, 9855), (237, 9909), (251, 9978), (272, 10050), (279, 10104), (285, 10152), (294, 10188), (297, 10203), (300, 10215), (316, 10320), (352, 10503),

Gene: Pokerus_34 Start: 28310, Stop: 29518, Start Num: 48
Candidate Starts for Pokerus_34:
(Start: 48 @28310 has 250 MA's), (93, 28412), (130, 28523), (183, 28700), (198, 28742), (211, 28817), (231, 28883), (234, 28895), (239, 28922), (255, 28997), (266, 29036), (272, 29051), (284, 29132), (285, 29144), (286, 29147), (289, 29162), (293, 29180), (300, 29210), (302, 29216), (304, 29234), (306, 29243), (307, 29246), (314, 29303), (321, 29333), (329, 29372), (336, 29393), (355, 29495), (361, 29510),

Gene: Porcelain_168 Start: 86026, Stop: 87246, Start Num: 48

Candidate Starts for Porcelain_168:
(Start: 48 @86026 has 250 MA's), (Start: 66 @86074 has 1 MA's), (142, 86275), (154, 86326), (167, 86374), (175, 86401), (198, 86458), (199, 86461), (204, 86491), (207, 86509), (216, 86551), (230, 86590), (248, 86668), (250, 86677), (251, 86683), (260, 86716), (292, 86875), (299, 86911), (306, 86947), (313, 87004), (336, 87115), (344, 87187), (346, 87193), (358, 87223),

Gene: Pound_161 Start: 87515, Stop: 88675, Start Num: 48
Candidate Starts for Pound_161:
(Start: 48 @87515 has 250 MA's), (53, 87533), (64, 87557), (80, 87590), (100, 87641), (111, 87671), (165, 87794), (175, 87830), (198, 87887), (199, 87890), (204, 87920), (207, 87938), (230, 88019), (248, 88097), (250, 88106), (251, 88112), (292, 88304), (299, 88340), (306, 88376), (313, 88433), (317, 88451), (323, 88469), (336, 88544), (344, 88616), (346, 88622), (358, 88652),

Gene: Prithvi_35 Start: 28323, Stop: 29531, Start Num: 48
Candidate Starts for Prithvi_35:
(Start: 48 @28323 has 250 MA's), (93, 28425), (130, 28536), (136, 28554), (183, 28713), (198, 28755), (211, 28830), (231, 28896), (234, 28908), (239, 28935), (255, 29010), (266, 29049), (271, 29061), (272, 29064), (284, 29145), (285, 29157), (289, 29175), (293, 29193), (295, 29199), (300, 29223), (302, 29229), (306, 29256), (307, 29259), (314, 29316), (321, 29346), (329, 29385), (336, 29406), (355, 29508), (361, 29523),

Gene: Procrass1_26 Start: 19317, Stop: 18271, Start Num: 107
Candidate Starts for Procrass1_26:
(63, 19425), (Start: 107 @19317 has 45 MA's), (170, 19125), (198, 19038), (211, 18963), (236, 18882), (239, 18867), (253, 18798), (255, 18792), (256, 18789), (260, 18774), (280, 18669), (298, 18582), (303, 18564), (323, 18453), (338, 18384), (345, 18324),

Gene: Provolone_44 Start: 30449, Stop: 31636, Start Num: 59
Candidate Starts for Provolone_44:
(Start: 59 @30449 has 106 MA's), (104, 30545), (109, 30566), (110, 30572), (117, 30593), (150, 30686), (155, 30707), (190, 30809), (192, 30815), (202, 30863), (254, 31094), (255, 31097), (263, 31127), (268, 31145), (278, 31199), (284, 31244), (295, 31298), (338, 31523), (360, 31625),

Gene: Psycho_35 Start: 28927, Stop: 30141, Start Num: 48
Candidate Starts for Psycho_35:
(45, 28921), (Start: 48 @28927 has 250 MA's), (54, 28945), (136, 29158), (149, 29206), (171, 29278), (198, 29365), (203, 29389), (214, 29449), (223, 29479), (227, 29488), (231, 29503), (234, 29515), (251, 29605), (252, 29608), (255, 29620), (256, 29623), (261, 29641), (272, 29674), (276, 29707), (284, 29755), (285, 29767), (293, 29803), (300, 29833), (302, 29839), (306, 29866), (307, 29869), (314, 29926), (321, 29956), (345, 30091), (349, 30103), (355, 30118), (359, 30127),

Gene: Puginator_46 Start: 31083, Stop: 32285, Start Num: 59
Candidate Starts for Puginator_46:
(Start: 59 @31083 has 106 MA's), (104, 31182), (110, 31209), (124, 31254), (140, 31293), (150, 31323), (155, 31344), (188, 31446), (191, 31455), (202, 31509), (225, 31608), (254, 31740), (255, 31743), (263, 31773), (268, 31791), (278, 31845), (295, 31944), (305, 31995), (319, 32079), (321, 32094), (337, 32160), (338, 32169), (354, 32256), (357, 32262),

Gene: Qhanda_37 Start: 29454, Stop: 30644, Start Num: 48
Candidate Starts for Qhanda_37:
(Start: 48 @29454 has 250 MA's), (108, 29610), (120, 29640), (130, 29670), (161, 29757), (198, 29865), (214, 29949), (231, 30003), (242, 30063), (243, 30072), (247, 30087), (255, 30120), (271, 30171), (272, 30174), (284, 30255), (293, 30303), (295, 30309), (300, 30333), (302, 30339), (305,

30360), (311, 30405), (322, 30462), (346, 30597), (348, 30603), (359, 30630), (361, 30636), (362, 30639),

Gene: QueenBey_26 Start: 19307, Stop: 18264, Start Num: 107
Candidate Starts for QueenBey_26:
(Start: 107 @19307 has 45 MA's), (198, 19031), (211, 18956), (236, 18875), (239, 18860), (247, 18818), (251, 18800), (253, 18791), (255, 18785), (256, 18782), (260, 18767), (280, 18662), (298, 18575), (303, 18557), (323, 18446), (338, 18377), (345, 18317),

Gene: QuincyRose_34 Start: 28382, Stop: 29590, Start Num: 48
Candidate Starts for QuincyRose_34:
(Start: 48 @28382 has 250 MA's), (93, 28484), (108, 28535), (130, 28595), (175, 28751), (198, 28814), (211, 28889), (231, 28955), (234, 28967), (239, 28994), (255, 29069), (266, 29108), (272, 29123), (284, 29204), (285, 29216), (286, 29219), (289, 29234), (293, 29252), (295, 29258), (300, 29282), (302, 29288), (304, 29306), (306, 29315), (307, 29318), (314, 29375), (321, 29405), (329, 29444), (336, 29465), (355, 29567), (361, 29582),

Gene: R4_45 Start: 31018, Stop: 32223, Start Num: 59
Candidate Starts for R4_45:
(Start: 59 @31018 has 106 MA's), (104, 31117), (109, 31138), (110, 31144), (140, 31228), (150, 31258), (189, 31387), (194, 31405), (202, 31447), (207, 31477), (222, 31537), (231, 31567), (254, 31678), (255, 31681), (263, 31711), (268, 31729), (272, 31738), (276, 31771), (278, 31783), (319, 32017), (337, 32098), (338, 32107), (354, 32194), (357, 32200),

Gene: Rabbitrun_115 Start: 65402, Stop: 66529, Start Num: 75
Candidate Starts for Rabbitrun_115:
(Start: 75 @65402 has 8 MA's), (111, 65504), (127, 65537), (198, 65750), (212, 65828), (214, 65834), (231, 65891), (235, 65906), (237, 65918), (239, 65930), (256, 66008), (266, 66047), (272, 66062), (275, 66092), (276, 66095), (285, 66155), (287, 66161), (292, 66185), (295, 66197), (300, 66221), (303, 66233), (311, 66290), (314, 66314), (325, 66362), (349, 66491), (350, 66494), (359, 66515), (361, 66521), (362, 66524),

Gene: Racecar_171 Start: 114540, Stop: 113212, Start Num: 21
Candidate Starts for Racecar_171:
(Start: 21 @114540 has 8 MA's), (83, 114315), (238, 113817), (255, 113739), (328, 113367),

Gene: Ramen_35 Start: 28359, Stop: 29567, Start Num: 48
Candidate Starts for Ramen_35:
(Start: 48 @28359 has 250 MA's), (93, 28461), (130, 28572), (183, 28749), (198, 28791), (211, 28866), (231, 28932), (234, 28944), (239, 28971), (255, 29046), (266, 29085), (272, 29100), (284, 29181), (285, 29193), (286, 29196), (289, 29211), (293, 29229), (300, 29259), (302, 29265), (304, 29283), (306, 29292), (307, 29295), (314, 29352), (321, 29382), (329, 29421), (336, 29442), (355, 29544), (361, 29559),

Gene: Rana_44 Start: 30076, Stop: 31266, Start Num: 59
Candidate Starts for Rana_44:
(Start: 59 @30076 has 106 MA's), (86, 30124), (109, 30190), (110, 30196), (150, 30310), (202, 30493), (222, 30583), (254, 30724), (255, 30727), (259, 30739), (268, 30775), (272, 30784), (274, 30808), (278, 30829), (284, 30874), (295, 30928), (300, 30952), (301, 30955), (305, 30979), (319, 31063), (322, 31081), (338, 31153), (348, 31222),

Gene: Rando14_35 Start: 27788, Stop: 29002, Start Num: 48
Candidate Starts for Rando14_35:

(45, 27782), (Start: 48 @27788 has 250 MA's), (149, 28067), (198, 28226), (203, 28250), (204, 28259), (214, 28310), (223, 28340), (231, 28364), (234, 28376), (243, 28433), (251, 28466), (254, 28478), (255, 28481), (256, 28484), (266, 28520), (271, 28532), (272, 28535), (276, 28568), (284, 28616), (285, 28628), (293, 28664), (300, 28694), (302, 28700), (304, 28718), (306, 28727), (307, 28730), (314, 28787), (321, 28817), (322, 28820), (328, 28850), (345, 28952), (349, 28964), (355, 28979), (359, 28988), (362, 28997),

Gene: Rapunzel97_35 Start: 28360, Stop: 29568, Start Num: 48
Candidate Starts for Rapunzel97_35:
(Start: 48 @28360 has 250 MA's), (93, 28462), (130, 28573), (183, 28750), (198, 28792), (211, 28867), (231, 28933), (234, 28945), (239, 28972), (255, 29047), (266, 29086), (272, 29101), (284, 29182), (285, 29194), (286, 29197), (289, 29212), (293, 29230), (295, 29236), (300, 29260), (302, 29266), (304, 29284), (306, 29293), (307, 29296), (314, 29353), (321, 29383), (322, 29386), (329, 29422), (336, 29443), (355, 29545), (361, 29560),

Gene: Rearden_167 Start: 86529, Stop: 87749, Start Num: 48
Candidate Starts for Rearden_167:
(Start: 48 @86529 has 250 MA's), (Start: 66 @86577 has 1 MA's), (89, 86625), (142, 86778), (154, 86829), (167, 86877), (175, 86904), (198, 86961), (199, 86964), (204, 86994), (207, 87012), (230, 87093), (248, 87171), (250, 87180), (251, 87186), (260, 87219), (292, 87378), (299, 87414), (306, 87450), (313, 87507), (336, 87618), (344, 87690), (346, 87696), (358, 87726),

Gene: RedBear_44 Start: 29753, Stop: 30946, Start Num: 59
Candidate Starts for RedBear_44:
(Start: 59 @29753 has 106 MA's), (86, 29801), (109, 29867), (110, 29873), (150, 29987), (166, 30047), (193, 30128), (202, 30173), (222, 30263), (254, 30404), (255, 30407), (259, 30419), (268, 30455), (272, 30464), (278, 30509), (284, 30554), (295, 30608), (300, 30632), (301, 30635), (319, 30743), (338, 30833), (357, 30926), (360, 30935),

Gene: Redno2_161 Start: 85579, Stop: 86739, Start Num: 48
Candidate Starts for Redno2_161:
(Start: 48 @85579 has 250 MA's), (53, 85597), (64, 85621), (100, 85705), (111, 85735), (165, 85858), (175, 85894), (198, 85951), (199, 85954), (204, 85984), (207, 86002), (230, 86083), (233, 86095), (248, 86161), (251, 86176), (260, 86209), (292, 86368), (299, 86404), (306, 86440), (313, 86497), (336, 86608), (344, 86680), (346, 86686), (358, 86716),

Gene: ReginaGlobina_175 Start: 115323, Stop: 113800, Start Num: 12
Candidate Starts for ReginaGlobina_175:
(11, 115332), (Start: 12 @115323 has 9 MA's), (13, 115287), (16, 115251), (23, 115197), (34, 115092), (41, 115068), (70, 114996), (77, 114987), (128, 114828), (137, 114807), (156, 114750), (184, 114651), (211, 114525), (248, 114390), (292, 114174), (310, 114072), (345, 113859), (348, 113850),

Gene: Reptar3000_36 Start: 29167, Stop: 30357, Start Num: 48
Candidate Starts for Reptar3000_36:
(Start: 48 @29167 has 250 MA's), (108, 29323), (120, 29353), (130, 29383), (161, 29470), (198, 29578), (214, 29662), (231, 29716), (242, 29776), (243, 29785), (247, 29800), (255, 29833), (271, 29884), (272, 29887), (284, 29968), (293, 30016), (295, 30022), (300, 30046), (302, 30052), (303, 30058), (305, 30073), (311, 30118), (322, 30175), (346, 30310), (348, 30316), (359, 30343), (361, 30349), (362, 30352),

Gene: Richo_35 Start: 27680, Stop: 28810, Start Num: 48
Candidate Starts for Richo_35:

(Start: 48 @27680 has 250 MA's), (65, 27722), (Start: 85 @27764 has 11 MA's), (121, 27869), (183, 27995), (198, 28037), (211, 28112), (231, 28175), (234, 28187), (238, 28211), (239, 28214), (255, 28289), (266, 28328), (271, 28340), (272, 28343), (284, 28424), (285, 28436), (293, 28472), (300, 28502), (302, 28508), (304, 28526), (306, 28535), (307, 28538), (321, 28625), (329, 28664), (336, 28685), (355, 28787), (361, 28802),

Gene: Rileysaurus_26 Start: 19348, Stop: 18305, Start Num: 107
Candidate Starts for Rileysaurus_26:
(Start: 107 @19348 has 45 MA's), (170, 19156), (195, 19081), (236, 18916), (239, 18901), (247, 18859), (251, 18841), (253, 18832), (255, 18826), (256, 18823), (260, 18808), (274, 18748), (280, 18703), (298, 18616), (303, 18598), (323, 18487), (338, 18418), (345, 18358),

Gene: Rockabye_172 Start: 106748, Stop: 105342, Start Num: 12
Candidate Starts for Rockabye_172:
(2, 106859), (4, 106829), (5, 106826), (6, 106823), (7, 106820), (9, 106796), (11, 106757), (Start: 12 @106748 has 9 MA's), (20, 106628), (97, 106424), (198, 106142), (210, 106070), (248, 105932), (282, 105767), (292, 105716), (310, 105614), (345, 105401),

Gene: Roman_31 Start: 9806, Stop: 11056, Start Num: 49
Candidate Starts for Roman_31:
(Start: 29 @9710 has 1 MA's), (31, 9734), (40, 9788), (Start: 49 @9806 has 1 MA's), (Start: 72 @9860 has 14 MA's), (96, 9926), (124, 10025), (131, 10040), (144, 10067), (148, 10082), (151, 10097), (206, 10307), (223, 10379), (267, 10562), (272, 10574), (301, 10745), (316, 10847), (361, 11051),

Gene: Ronaldo_120 Start: 57466, Stop: 58557, Start Num: 82
Candidate Starts for Ronaldo_120:
(Start: 82 @57466 has 6 MA's), (91, 57487), (147, 57622), (158, 57658), (162, 57670), (175, 57718), (202, 57793), (214, 57859), (215, 57865), (237, 57946), (259, 58045), (271, 58087), (285, 58183), (292, 58207), (293, 58213), (300, 58243), (303, 58255), (311, 58312), (322, 58369), (353, 58531),

Gene: Rosmarinus_35 Start: 28381, Stop: 29589, Start Num: 48
Candidate Starts for Rosmarinus_35:
(Start: 39 @28357 has 1 MA's), (Start: 48 @28381 has 250 MA's), (93, 28483), (130, 28594), (161, 28702), (183, 28771), (198, 28813), (211, 28888), (231, 28954), (234, 28966), (239, 28993), (255, 29068), (266, 29107), (272, 29122), (284, 29203), (285, 29215), (286, 29218), (289, 29233), (293, 29251), (295, 29257), (300, 29281), (302, 29287), (304, 29305), (306, 29314), (307, 29317), (314, 29374), (321, 29404), (329, 29443), (336, 29464), (355, 29566), (361, 29581),

Gene: Rusticus_44 Start: 29538, Stop: 30725, Start Num: 59
Candidate Starts for Rusticus_44:
(Start: 59 @29538 has 106 MA's), (109, 29655), (110, 29661), (122, 29700), (134, 29736), (150, 29775), (185, 29892), (190, 29898), (202, 29952), (255, 30186), (268, 30234), (284, 30333), (300, 30411), (301, 30414), (305, 30438), (319, 30522), (338, 30612),

Gene: Ruthiejr_37 Start: 29323, Stop: 30513, Start Num: 48
Candidate Starts for Ruthiejr_37:
(Start: 48 @29323 has 250 MA's), (108, 29479), (120, 29509), (130, 29539), (161, 29626), (164, 29638), (198, 29734), (202, 29752), (214, 29818), (231, 29872), (242, 29932), (243, 29941), (247, 29956), (254, 29986), (255, 29989), (271, 30040), (272, 30043), (284, 30124), (293, 30172), (295, 30178), (300, 30202), (302, 30208), (305, 30229), (311, 30274), (322, 30331), (346, 30466), (359, 30499), (361, 30505), (362, 30508),

Gene: SJReid_174 Start: 104973, Stop: 103564, Start Num: 12

Candidate Starts for SJReid_174:
(2, 105084), (5, 105051), (6, 105048), (7, 105045), (10, 105000), (11, 104982), (Start: 12 @104973 has 9 MA's), (14, 104928), (62, 104721), (182, 104412), (248, 104154), (268, 104076), (292, 103938), (310, 103836), (345, 103623), (348, 103614),

Gene: SKKY_26 Start: 19396, Stop: 18353, Start Num: 107
Candidate Starts for SKKY_26:
(Start: 107 @19396 has 45 MA's), (211, 19045), (236, 18964), (239, 18949), (247, 18907), (253, 18880), (255, 18874), (256, 18871), (260, 18856), (280, 18751), (291, 18694), (298, 18664), (303, 18646), (323, 18535), (338, 18466), (345, 18406),

Gene: Saftant_43 Start: 31027, Stop: 32214, Start Num: 59
Candidate Starts for Saftant_43:
(Start: 59 @31027 has 106 MA's), (104, 31123), (109, 31144), (110, 31150), (117, 31171), (150, 31264), (155, 31285), (165, 31321), (190, 31387), (192, 31393), (202, 31441), (244, 31633), (254, 31672), (255, 31675), (263, 31705), (268, 31723), (278, 31777), (284, 31822), (295, 31876), (300, 31900), (301, 31903), (338, 32101), (360, 32203),

Gene: SamScheppers_36 Start: 29836, Stop: 31026, Start Num: 48
Candidate Starts for SamScheppers_36:
(Start: 48 @29836 has 250 MA's), (108, 29992), (120, 30022), (130, 30052), (161, 30139), (198, 30247), (214, 30331), (231, 30385), (242, 30445), (243, 30454), (247, 30469), (255, 30502), (271, 30553), (272, 30556), (284, 30637), (293, 30685), (295, 30691), (300, 30715), (302, 30721), (305, 30742), (311, 30787), (322, 30844), (346, 30979), (348, 30985), (359, 31012), (361, 31018), (362, 31021),

Gene: SamuelLPlaqson_35 Start: 28303, Stop: 29511, Start Num: 48
Candidate Starts for SamuelLPlaqson_35:
(Start: 48 @28303 has 250 MA's), (93, 28405), (130, 28516), (136, 28534), (183, 28693), (198, 28735), (211, 28810), (231, 28876), (234, 28888), (239, 28915), (255, 28990), (266, 29029), (271, 29041), (272, 29044), (284, 29125), (285, 29137), (286, 29140), (289, 29155), (293, 29173), (300, 29203), (302, 29209), (304, 29227), (306, 29236), (307, 29239), (314, 29296), (329, 29365), (336, 29386), (355, 29488), (361, 29503),

Gene: Saradis_32 Start: 9923, Stop: 11119, Start Num: 72
Candidate Starts for Saradis_32:
(Start: 29 @9773 has 1 MA's), (31, 9797), (40, 9851), (Start: 49 @9869 has 1 MA's), (Start: 72 @9923 has 14 MA's), (96, 9989), (124, 10088), (131, 10103), (144, 10130), (148, 10145), (151, 10160), (206, 10370), (223, 10442), (267, 10625), (301, 10808), (316, 10910), (361, 11114),

Gene: SarahRose_43 Start: 29557, Stop: 30747, Start Num: 59
Candidate Starts for SarahRose_43:
(Start: 59 @29557 has 106 MA's), (86, 29605), (109, 29671), (110, 29677), (150, 29791), (202, 29974), (254, 30205), (255, 30208), (259, 30220), (268, 30256), (272, 30265), (274, 30289), (278, 30310), (284, 30355), (295, 30409), (300, 30433), (301, 30436), (319, 30544), (338, 30634), (348, 30703),

Gene: Scarlett_35 Start: 28055, Stop: 29182, Start Num: 48
Candidate Starts for Scarlett_35:
(Start: 48 @28055 has 250 MA's), (121, 28244), (183, 28370), (198, 28409), (211, 28484), (231, 28547), (234, 28559), (239, 28586), (252, 28649), (255, 28661), (260, 28679), (272, 28715), (275, 28745), (284, 28796), (285, 28808), (289, 28826), (293, 28844), (295, 28850), (300, 28874), (302, 28880), (307, 28910), (314, 28967), (328, 29030), (336, 29057), (338, 29072), (339, 29078), (348, 29141), (355, 29159), (361, 29174),

Gene: Schatzie_162 Start: 88514, Stop: 89674, Start Num: 48
Candidate Starts for Schatzie_162:
(Start: 48 @88514 has 250 MA's), (53, 88532), (64, 88556), (100, 88640), (111, 88670), (165, 88793), (175, 88829), (198, 88886), (199, 88889), (204, 88919), (207, 88937), (230, 89018), (248, 89096), (250, 89105), (251, 89111), (292, 89303), (299, 89339), (306, 89375), (313, 89432), (336, 89543), (344, 89615), (346, 89621), (358, 89651),

Gene: Schmidt_60 Start: 37326, Stop: 38462, Start Num: 85
Candidate Starts for Schmidt_60:
(Start: 85 @37326 has 11 MA's), (103, 37371), (114, 37416), (142, 37497), (149, 37527), (159, 37560), (205, 37719), (214, 37767), (232, 37830), (242, 37884), (247, 37905), (255, 37938), (266, 37980), (271, 37992), (272, 37995), (273, 38016), (287, 38094), (292, 38118), (293, 38124), (295, 38130), (300, 38154), (302, 38160), (304, 38178), (311, 38223), (322, 38280), (328, 38310), (340, 38382), (348, 38421), (362, 38457),

Gene: Sephiroth_112 Start: 63182, Stop: 64324, Start Num: 75
Candidate Starts for Sephiroth_112:
(Start: 75 @63182 has 8 MA's), (78, 63191), (119, 63314), (202, 63563), (209, 63608), (211, 63620), (217, 63641), (232, 63692), (237, 63713), (238, 63722), (239, 63725), (266, 63842), (271, 63854), (276, 63890), (284, 63938), (285, 63950), (295, 63992), (300, 64016), (302, 64022), (306, 64049), (311, 64085), (315, 64115), (322, 64142), (343, 64265), (345, 64274), (346, 64277), (349, 64286), (359, 64310), (361, 64316),

Gene: SgtBeansprout_31 Start: 27784, Stop: 28920, Start Num: 48
Candidate Starts for SgtBeansprout_31:
(Start: 48 @27784 has 250 MA's), (65, 27826), (86, 27871), (105, 27928), (121, 27973), (171, 28060), (191, 28117), (211, 28219), (231, 28285), (234, 28297), (238, 28321), (239, 28324), (255, 28399), (262, 28426), (266, 28438), (272, 28453), (284, 28534), (285, 28546), (293, 28582), (300, 28612), (302, 28618), (304, 28636), (306, 28645), (307, 28648), (321, 28735), (328, 28768), (329, 28774), (336, 28795), (355, 28897), (362, 28915),

Gene: Shaboozey_166 Start: 85632, Stop: 86852, Start Num: 48
Candidate Starts for Shaboozey_166:
(Start: 48 @85632 has 250 MA's), (Start: 66 @85680 has 1 MA's), (142, 85881), (154, 85932), (167, 85980), (175, 86007), (198, 86064), (199, 86067), (204, 86097), (207, 86115), (230, 86196), (248, 86274), (250, 86283), (251, 86289), (260, 86322), (292, 86481), (299, 86517), (306, 86553), (313, 86610), (336, 86721), (344, 86793), (346, 86799), (358, 86829),

Gene: Shadow1_34 Start: 27528, Stop: 28661, Start Num: 48
Candidate Starts for Shadow1_34:
(Start: 48 @27528 has 250 MA's), (76, 27588), (183, 27846), (198, 27888), (221, 27996), (227, 28011), (234, 28038), (239, 28065), (255, 28140), (272, 28194), (284, 28275), (293, 28323), (300, 28353), (302, 28359), (304, 28377), (305, 28380), (314, 28446), (321, 28476), (336, 28536), (361, 28653),

Gene: Shaobing_35 Start: 27680, Stop: 28810, Start Num: 48
Candidate Starts for Shaobing_35:
(Start: 48 @27680 has 250 MA's), (65, 27722), (Start: 85 @27764 has 11 MA's), (121, 27869), (183, 27995), (198, 28037), (231, 28175), (234, 28187), (238, 28211), (239, 28214), (255, 28289), (266, 28328), (271, 28340), (272, 28343), (284, 28424), (285, 28436), (293, 28472), (300, 28502), (302, 28508), (304, 28526), (306, 28535), (307, 28538), (321, 28625), (329, 28664), (336, 28685), (355, 28787), (361, 28802),

Gene: ShedlockHolmes_36 Start: 29284, Stop: 30414, Start Num: 48
Candidate Starts for ShedlockHolmes_36:
(26, 29149), (Start: 48 @29284 has 250 MA's), (54, 29302), (65, 29326), (121, 29473), (183, 29599), (198, 29641), (211, 29716), (231, 29779), (234, 29791), (251, 29878), (284, 30028), (293, 30076), (295, 30082), (300, 30106), (305, 30133), (307, 30142), (314, 30199), (321, 30229), (329, 30268), (336, 30289), (338, 30304), (355, 30391), (359, 30400), (361, 30406),

Gene: ShiaSurprise_35 Start: 28393, Stop: 29601, Start Num: 48
Candidate Starts for ShiaSurprise_35:
(Start: 39 @28369 has 1 MA's), (Start: 48 @28393 has 250 MA's), (93, 28495), (130, 28606), (183, 28783), (198, 28825), (211, 28900), (224, 28942), (231, 28966), (234, 28978), (239, 29005), (255, 29080), (266, 29119), (272, 29134), (284, 29215), (285, 29227), (286, 29230), (289, 29245), (293, 29263), (295, 29269), (300, 29293), (302, 29299), (304, 29317), (306, 29326), (307, 29329), (314, 29386), (321, 29416), (329, 29455), (336, 29476), (355, 29578), (361, 29593),

Gene: SirPhilip_34 Start: 27159, Stop: 28289, Start Num: 48
Candidate Starts for SirPhilip_34:
(Start: 48 @27159 has 250 MA's), (93, 27261), (164, 27417), (183, 27474), (198, 27516), (211, 27591), (231, 27654), (234, 27666), (239, 27693), (251, 27753), (252, 27756), (255, 27768), (272, 27822), (284, 27903), (285, 27915), (293, 27951), (295, 27957), (300, 27981), (302, 27987), (304, 28005), (307, 28017), (314, 28074), (321, 28104), (328, 28137), (329, 28143), (336, 28164), (338, 28179), (349, 28251), (355, 28266), (361, 28281),

Gene: Slarp_36 Start: 29445, Stop: 30635, Start Num: 48
Candidate Starts for Slarp_36:
(Start: 48 @29445 has 250 MA's), (108, 29601), (120, 29631), (130, 29661), (161, 29748), (198, 29856), (214, 29940), (231, 29994), (242, 30054), (243, 30063), (247, 30078), (255, 30111), (271, 30162), (272, 30165), (284, 30246), (293, 30294), (295, 30300), (300, 30324), (302, 30330), (305, 30351), (311, 30396), (322, 30453), (346, 30588), (348, 30594), (359, 30621), (361, 30627), (362, 30630),

Gene: Slimphazie_35 Start: 28360, Stop: 29568, Start Num: 48
Candidate Starts for Slimphazie_35:
(Start: 48 @28360 has 250 MA's), (93, 28462), (130, 28573), (183, 28750), (198, 28792), (211, 28867), (231, 28933), (234, 28945), (239, 28972), (255, 29047), (266, 29086), (272, 29101), (284, 29182), (285, 29194), (286, 29197), (289, 29212), (293, 29230), (295, 29236), (300, 29260), (302, 29266), (304, 29284), (306, 29293), (307, 29296), (314, 29353), (321, 29383), (322, 29386), (329, 29422), (336, 29443), (355, 29545), (361, 29560),

Gene: Snorlax_43 Start: 29561, Stop: 30751, Start Num: 59
Candidate Starts for Snorlax_43:
(Start: 59 @29561 has 106 MA's), (86, 29609), (109, 29675), (110, 29681), (150, 29795), (202, 29978), (222, 30068), (254, 30209), (255, 30212), (259, 30224), (268, 30260), (272, 30269), (274, 30293), (278, 30314), (284, 30359), (295, 30413), (300, 30437), (301, 30440), (319, 30548), (338, 30638), (348, 30707),

Gene: SoSeph_34 Start: 29070, Stop: 30287, Start Num: 48
Candidate Starts for SoSeph_34:
(Start: 48 @29070 has 250 MA's), (54, 29091), (136, 29304), (149, 29352), (198, 29511), (202, 29529), (204, 29544), (214, 29595), (223, 29625), (227, 29634), (231, 29649), (234, 29661), (251, 29751), (255, 29766), (256, 29769), (261, 29787), (266, 29805), (276, 29853), (284, 29901), (285, 29913), (293, 29949), (300, 29979), (302, 29985), (305, 30006), (306, 30012), (307, 30015), (311, 30048), (312, 30057), (314, 30072), (321, 30102), (322, 30105), (328, 30135), (355, 30264), (359, 30273),

Gene: Solid_26 Start: 19327, Stop: 18281, Start Num: 107
Candidate Starts for Solid_26:
(Start: 107 @19327 has 45 MA's), (170, 19135), (198, 19048), (211, 18973), (236, 18892), (239, 18877), (253, 18808), (255, 18802), (256, 18799), (260, 18784), (298, 18592), (303, 18574), (323, 18463), (338, 18394), (345, 18334),

Gene: Solimine_32 Start: 10338, Stop: 11534, Start Num: 72
Candidate Starts for Solimine_32:
(Start: 29 @10188 has 1 MA's), (31, 10212), (40, 10266), (Start: 49 @10284 has 1 MA's), (Start: 72 @10338 has 14 MA's), (96, 10404), (124, 10503), (131, 10518), (148, 10560), (151, 10575), (206, 10785), (223, 10857), (267, 11040), (272, 11052), (301, 11223), (306, 11253), (316, 11325), (361, 11529),

Gene: South40_43 Start: 29753, Stop: 30946, Start Num: 59
Candidate Starts for South40_43:
(Start: 59 @29753 has 106 MA's), (86, 29801), (109, 29867), (110, 29873), (150, 29987), (166, 30047), (193, 30128), (202, 30173), (222, 30263), (254, 30404), (255, 30407), (259, 30419), (268, 30455), (272, 30464), (278, 30509), (284, 30554), (295, 30608), (300, 30632), (301, 30635), (319, 30743), (338, 30833), (357, 30926), (360, 30935),

Gene: Speedwell_48 Start: 32317, Stop: 33504, Start Num: 59
Candidate Starts for Speedwell_48:
(Start: 59 @32317 has 106 MA's), (104, 32413), (109, 32434), (110, 32440), (117, 32461), (139, 32521), (150, 32554), (155, 32575), (165, 32611), (190, 32677), (192, 32683), (202, 32731), (244, 32923), (254, 32962), (255, 32965), (263, 32995), (268, 33013), (278, 33067), (284, 33112), (295, 33166), (301, 33193), (338, 33391), (360, 33493),

Gene: Splinter_66 Start: 40804, Stop: 41925, Start Num: 85
Candidate Starts for Splinter_66:
(Start: 85 @40804 has 11 MA's), (87, 40813), (95, 40825), (214, 41230), (233, 41296), (242, 41347), (247, 41368), (251, 41386), (259, 41413), (266, 41443), (268, 41449), (287, 41557), (300, 41617), (302, 41623), (304, 41641), (311, 41686), (334, 41794), (348, 41884), (362, 41920),

Gene: Spock_35 Start: 28393, Stop: 29601, Start Num: 48
Candidate Starts for Spock_35:
(Start: 39 @28369 has 1 MA's), (Start: 48 @28393 has 250 MA's), (93, 28495), (130, 28606), (161, 28714), (183, 28783), (198, 28825), (211, 28900), (231, 28966), (234, 28978), (239, 29005), (255, 29080), (266, 29119), (272, 29134), (284, 29215), (285, 29227), (286, 29230), (289, 29245), (293, 29263), (295, 29269), (300, 29293), (302, 29299), (304, 29317), (306, 29326), (307, 29329), (314, 29386), (321, 29416), (329, 29455), (336, 29476), (355, 29578), (361, 29593),

Gene: SqueakyClean_43 Start: 30580, Stop: 31779, Start Num: 59
Candidate Starts for SqueakyClean_43:
(Start: 59 @30580 has 106 MA's), (124, 30751), (150, 30820), (192, 30952), (202, 31003), (254, 31234), (255, 31237), (263, 31267), (268, 31285), (272, 31294), (278, 31339), (319, 31573), (337, 31654), (338, 31663), (354, 31750), (357, 31756), (361, 31768),

Gene: Squint_163 Start: 86536, Stop: 87756, Start Num: 48
Candidate Starts for Squint_163:
(Start: 48 @86536 has 250 MA's), (Start: 66 @86584 has 1 MA's), (142, 86785), (154, 86836), (167, 86884), (175, 86911), (198, 86968), (199, 86971), (204, 87001), (207, 87019), (230, 87100), (248, 87178), (250, 87187), (251, 87193), (260, 87226), (292, 87385), (299, 87421), (306, 87457), (313,

87514), (336, 87625), (344, 87697), (346, 87703), (358, 87733),

Gene: Squircle_30 Start: 21911, Stop: 23191, Start Num: 24
Candidate Starts for Squircle_30:
(Start: 24 @21911 has 3 MA's), (41, 22007), (94, 22115), (96, 22121), (123, 22199), (135, 22226), (137, 22229), (198, 22394), (203, 22418), (218, 22493), (220, 22499), (268, 22682), (272, 22691), (300, 22853), (302, 22859), (308, 22904), (330, 23021),

Gene: Stewart25555_159 Start: 111926, Stop: 110487, Start Num: 15
Candidate Starts for Stewart25555_159:
(15, 111926), (19, 111869), (Start: 21 @111860 has 8 MA's), (27, 111824), (69, 111653), (98, 111578), (163, 111380), (219, 111158), (238, 111092), (255, 111014), (263, 110984), (303, 110783), (328, 110642), (340, 110567), (356, 110510),

Gene: Stinson_36 Start: 28595, Stop: 29803, Start Num: 48
Candidate Starts for Stinson_36:
(Start: 48 @28595 has 250 MA's), (93, 28697), (130, 28808), (136, 28826), (183, 28985), (198, 29027), (211, 29102), (231, 29168), (234, 29180), (239, 29207), (255, 29282), (266, 29321), (271, 29333), (272, 29336), (284, 29417), (285, 29429), (289, 29447), (293, 29465), (295, 29471), (300, 29495), (302, 29501), (304, 29519), (306, 29528), (307, 29531), (314, 29588), (321, 29618), (322, 29621), (329, 29657), (355, 29780), (361, 29795),

Gene: Stormborn_26 Start: 19231, Stop: 18185, Start Num: 107
Candidate Starts for Stormborn_26:
(Start: 107 @19231 has 45 MA's), (211, 18877), (236, 18796), (239, 18781), (253, 18712), (255, 18706), (256, 18703), (280, 18583), (298, 18496), (303, 18478), (323, 18367), (338, 18298), (345, 18238),

Gene: Strobilo_34 Start: 27603, Stop: 28787, Start Num: 48
Candidate Starts for Strobilo_34:
(36, 27570), (Start: 48 @27603 has 250 MA's), (Start: 60 @27636 has 5 MA's), (120, 27786), (130, 27816), (186, 27975), (198, 28014), (211, 28089), (231, 28152), (237, 28179), (239, 28191), (255, 28266), (256, 28269), (293, 28449), (300, 28479), (302, 28485), (305, 28506), (306, 28512), (314, 28572), (321, 28602), (336, 28662), (355, 28764), (362, 28782),

Gene: Sudan_43 Start: 30905, Stop: 32092, Start Num: 59
Candidate Starts for Sudan_43:
(Start: 59 @30905 has 106 MA's), (104, 31001), (109, 31022), (110, 31028), (117, 31049), (150, 31142), (155, 31163), (190, 31265), (192, 31271), (202, 31319), (244, 31511), (254, 31550), (255, 31553), (263, 31583), (268, 31601), (278, 31655), (284, 31700), (295, 31754), (338, 31979), (360, 32081),

Gene: Sujidade_44 Start: 30307, Stop: 31497, Start Num: 59
Candidate Starts for Sujidade_44:
(Start: 59 @30307 has 106 MA's), (86, 30355), (109, 30421), (110, 30427), (150, 30541), (191, 30670), (202, 30724), (222, 30814), (254, 30955), (255, 30958), (259, 30970), (268, 31006), (272, 31015), (274, 31039), (278, 31060), (284, 31105), (295, 31159), (301, 31186), (319, 31294), (338, 31384), (357, 31477),

Gene: Sulley_35 Start: 28326, Stop: 29534, Start Num: 48
Candidate Starts for Sulley_35:
(Start: 48 @28326 has 250 MA's), (93, 28428), (108, 28479), (130, 28539), (183, 28716), (198, 28758), (211, 28833), (231, 28899), (234, 28911), (239, 28938), (255, 29013), (266, 29052), (272, 29067),

(284, 29148), (285, 29160), (286, 29163), (289, 29178), (293, 29196), (295, 29202), (300, 29226), (302, 29232), (304, 29250), (306, 29259), (307, 29262), (321, 29349), (329, 29388), (336, 29409), (355, 29511), (361, 29526),

Gene: Sunflower1121_34 Start: 27546, Stop: 28754, Start Num: 48
Candidate Starts for Sunflower1121_34:
(Start: 48 @27546 has 250 MA's), (54, 27564), (67, 27591), (93, 27648), (136, 27777), (183, 27939), (198, 27981), (227, 28104), (234, 28131), (239, 28158), (255, 28233), (272, 28287), (284, 28368), (293, 28416), (300, 28446), (302, 28452), (304, 28470), (305, 28473), (314, 28539), (321, 28569), (336, 28629), (361, 28746),

Gene: SunkenRoot_43 Start: 31510, Stop: 32697, Start Num: 59
Candidate Starts for SunkenRoot_43:
(Start: 59 @31510 has 106 MA's), (104, 31606), (109, 31627), (110, 31633), (117, 31654), (150, 31747), (155, 31768), (165, 31804), (190, 31870), (192, 31876), (202, 31924), (207, 31954), (244, 32116), (254, 32155), (255, 32158), (263, 32188), (268, 32206), (278, 32260), (284, 32305), (295, 32359), (301, 32386), (338, 32584), (360, 32686),

Gene: SunsetPointe_43 Start: 29203, Stop: 30393, Start Num: 59
Candidate Starts for SunsetPointe_43:
(38, 29140), (Start: 59 @29203 has 106 MA's), (86, 29251), (109, 29317), (150, 29437), (202, 29620), (222, 29710), (254, 29851), (255, 29854), (259, 29866), (268, 29902), (272, 29911), (274, 29935), (278, 29956), (300, 30079), (301, 30082), (319, 30190), (338, 30280), (360, 30382),

Gene: Supernova_26 Start: 19397, Stop: 18351, Start Num: 107
Candidate Starts for Supernova_26:
(Start: 107 @19397 has 45 MA's), (198, 19118), (236, 18962), (239, 18947), (253, 18878), (255, 18872), (256, 18869), (260, 18854), (298, 18662), (303, 18644), (323, 18533), (338, 18464), (345, 18404),

Gene: Superphikiman_166 Start: 85705, Stop: 86925, Start Num: 48
Candidate Starts for Superphikiman_166:
(Start: 48 @85705 has 250 MA's), (Start: 66 @85753 has 1 MA's), (142, 85954), (154, 86005), (167, 86053), (175, 86080), (198, 86137), (199, 86140), (204, 86170), (207, 86188), (230, 86269), (248, 86347), (250, 86356), (251, 86362), (260, 86395), (292, 86554), (299, 86590), (306, 86626), (313, 86683), (336, 86794), (344, 86866), (346, 86872), (358, 86902),

Gene: Superstar_48 Start: 31768, Stop: 32967, Start Num: 59
Candidate Starts for Superstar_48:
(Start: 59 @31768 has 106 MA's), (65, 31777), (104, 31867), (110, 31894), (124, 31939), (140, 31978), (150, 32008), (155, 32029), (202, 32191), (207, 32221), (231, 32311), (254, 32422), (255, 32425), (263, 32455), (268, 32473), (269, 32476), (272, 32482), (276, 32515), (278, 32527), (295, 32626), (304, 32674), (319, 32761), (321, 32776), (337, 32842), (338, 32851), (354, 32938), (357, 32944),

Gene: Syleon_117 Start: 63964, Stop: 65106, Start Num: 75
Candidate Starts for Syleon_117:
(Start: 75 @63964 has 8 MA's), (78, 63973), (110, 64069), (119, 64096), (202, 64345), (209, 64390), (211, 64402), (217, 64423), (232, 64474), (237, 64495), (238, 64504), (239, 64507), (266, 64624), (271, 64636), (276, 64672), (284, 64720), (285, 64732), (295, 64774), (300, 64798), (302, 64804), (306, 64831), (311, 64867), (315, 64897), (322, 64924), (343, 65047), (345, 65056), (346, 65059), (349, 65068), (359, 65092), (361, 65098),

Gene: Syra333_35 Start: 27547, Stop: 28680, Start Num: 48

Candidate Starts for Syra333_35:
(Start: 48 @27547 has 250 MA's), (76, 27607), (183, 27865), (198, 27907), (227, 28030), (234, 28057), (239, 28084), (255, 28159), (272, 28213), (284, 28294), (293, 28342), (295, 28348), (300, 28372), (302, 28378), (304, 28396), (305, 28399), (314, 28465), (321, 28495), (336, 28555), (361, 28672),

Gene: TBond007_35 Start: 28761, Stop: 29891, Start Num: 48
Candidate Starts for TBond007_35:
(26, 28626), (Start: 48 @28761 has 250 MA's), (54, 28779), (65, 28803), (121, 28950), (183, 29076), (198, 29118), (211, 29193), (231, 29256), (234, 29268), (238, 29292), (251, 29355), (284, 29505), (293, 29553), (295, 29559), (300, 29583), (305, 29610), (307, 29619), (314, 29676), (321, 29706), (329, 29745), (336, 29766), (338, 29781), (355, 29868), (359, 29877), (361, 29883),

Gene: TClif_36 Start: 28125, Stop: 29261, Start Num: 48
Candidate Starts for TClif_36:
(Start: 48 @28125 has 250 MA's), (65, 28167), (121, 28314), (175, 28422), (183, 28443), (198, 28488), (211, 28563), (231, 28626), (234, 28638), (237, 28653), (255, 28740), (272, 28794), (284, 28875), (293, 28923), (295, 28929), (300, 28953), (302, 28959), (307, 28989), (314, 29046), (321, 29076), (329, 29115), (348, 29220), (355, 29238), (361, 29253),

Gene: TM4_36 Start: 27808, Stop: 28992, Start Num: 48
Candidate Starts for TM4_36:
(Start: 48 @27808 has 250 MA's), (Start: 60 @27841 has 5 MA's), (120, 27991), (130, 28021), (231, 28357), (237, 28384), (239, 28396), (255, 28471), (256, 28474), (293, 28654), (300, 28684), (302, 28690), (305, 28711), (306, 28717), (314, 28777), (321, 28807), (336, 28867), (362, 28987),

Gene: TZGordon_67 Start: 39692, Stop: 40816, Start Num: 85
Candidate Starts for TZGordon_67:
(50, 39617), (Start: 85 @39692 has 11 MA's), (87, 39701), (95, 39713), (136, 39836), (215, 40127), (230, 40175), (233, 40187), (242, 40238), (247, 40259), (251, 40277), (259, 40304), (266, 40334), (268, 40340), (287, 40448), (300, 40508), (302, 40514), (304, 40532), (311, 40577), (334, 40685), (348, 40775), (362, 40811),

Gene: Tachez_35 Start: 28322, Stop: 29530, Start Num: 48
Candidate Starts for Tachez_35:
(Start: 48 @28322 has 250 MA's), (93, 28424), (130, 28535), (183, 28712), (198, 28754), (211, 28829), (231, 28895), (234, 28907), (239, 28934), (255, 29009), (266, 29048), (272, 29063), (284, 29144), (285, 29156), (286, 29159), (289, 29174), (293, 29192), (295, 29198), (300, 29222), (302, 29228), (304, 29246), (306, 29255), (307, 29258), (314, 29315), (321, 29345), (322, 29348), (329, 29384), (336, 29405), (355, 29507), (361, 29522),

Gene: TagePhighter_45 Start: 29561, Stop: 30751, Start Num: 59
Candidate Starts for TagePhighter_45:
(Start: 59 @29561 has 106 MA's), (86, 29609), (109, 29675), (110, 29681), (150, 29795), (202, 29978), (254, 30209), (255, 30212), (259, 30224), (268, 30260), (272, 30269), (274, 30293), (278, 30314), (284, 30359), (295, 30413), (300, 30437), (301, 30440), (319, 30548), (338, 30638), (348, 30707),

Gene: TaiwanKao_36 Start: 28323, Stop: 29531, Start Num: 48
Candidate Starts for TaiwanKao_36:
(Start: 48 @28323 has 250 MA's), (93, 28425), (130, 28536), (136, 28554), (183, 28713), (198, 28755), (211, 28830), (231, 28896), (234, 28908), (239, 28935), (255, 29010), (266, 29049), (271, 29061), (272, 29064), (284, 29145), (285, 29157), (286, 29160), (289, 29175), (293, 29193), (295, 29199), (300, 29223), (302, 29229), (304, 29247), (306, 29256), (307, 29259), (314, 29316), (321, 29346), (329, 29385), (336, 29406), (355, 29508), (361, 29523),

Gene: Talia1610_171 Start: 113951, Stop: 112623, Start Num: 21
Candidate Starts for Talia1610_171:
(Start: 21 @113951 has 8 MA's), (83, 113726), (216, 113303), (238, 113228), (255, 113150), (328, 112778),

Gene: Tandem_29 Start: 9505, Stop: 10698, Start Num: 72
Candidate Starts for Tandem_29:
(Start: 72 @9505 has 14 MA's), (124, 9670), (144, 9712), (151, 9742), (201, 9916), (223, 10024), (237, 10078), (251, 10147), (272, 10219), (279, 10273), (294, 10357), (297, 10372), (300, 10384), (316, 10489), (352, 10672), (361, 10693),

Gene: Taquito_36 Start: 29883, Stop: 31079, Start Num: 48
Candidate Starts for Taquito_36:
(Start: 48 @29883 has 250 MA's), (108, 30039), (120, 30069), (130, 30099), (161, 30186), (198, 30294), (214, 30378), (231, 30432), (242, 30492), (243, 30501), (247, 30516), (255, 30549), (271, 30600), (272, 30603), (284, 30684), (293, 30732), (295, 30738), (300, 30762), (302, 30768), (305, 30789), (311, 30834), (322, 30891), (346, 31026), (348, 31032), (351, 31044),

Gene: Teejan_31 Start: 27784, Stop: 28920, Start Num: 48
Candidate Starts for Teejan_31:
(Start: 48 @27784 has 250 MA's), (65, 27826), (86, 27871), (105, 27928), (121, 27973), (171, 28060), (191, 28117), (211, 28219), (231, 28285), (234, 28297), (238, 28321), (239, 28324), (255, 28399), (262, 28426), (266, 28438), (272, 28453), (284, 28534), (285, 28546), (293, 28582), (300, 28612), (302, 28618), (304, 28636), (306, 28645), (307, 28648), (321, 28735), (328, 28768), (329, 28774), (336, 28795), (355, 28897), (362, 28915),

Gene: Tefunt_45 Start: 30484, Stop: 31686, Start Num: 59
Candidate Starts for Tefunt_45:
(Start: 59 @30484 has 106 MA's), (110, 30610), (124, 30655), (150, 30724), (155, 30745), (189, 30853), (192, 30859), (202, 30910), (254, 31141), (255, 31144), (263, 31174), (268, 31192), (272, 31201), (278, 31246), (319, 31480), (338, 31570), (354, 31657), (357, 31663), (361, 31675),

Gene: Thestral_45 Start: 30681, Stop: 31883, Start Num: 59
Candidate Starts for Thestral_45:
(Start: 59 @30681 has 106 MA's), (150, 30921), (155, 30942), (188, 31044), (191, 31053), (202, 31107), (225, 31206), (254, 31338), (255, 31341), (263, 31371), (268, 31389), (305, 31593), (319, 31677), (320, 31686), (338, 31767), (354, 31854), (357, 31860),

Gene: Thibault_151 Start: 85394, Stop: 86554, Start Num: 48
Candidate Starts for Thibault_151:
(Start: 48 @85394 has 250 MA's), (53, 85412), (64, 85436), (80, 85469), (100, 85520), (111, 85550), (165, 85673), (175, 85709), (198, 85766), (199, 85769), (204, 85799), (207, 85817), (230, 85898), (248, 85976), (250, 85985), (251, 85991), (292, 86183), (299, 86219), (306, 86255), (313, 86312), (336, 86423), (344, 86495), (346, 86501), (358, 86531),

Gene: ThreeRngTarjay_164 Start: 89388, Stop: 90548, Start Num: 48
Candidate Starts for ThreeRngTarjay_164:
(Start: 48 @89388 has 250 MA's), (53, 89406), (64, 89430), (100, 89514), (111, 89544), (165, 89667), (175, 89703), (198, 89760), (199, 89763), (204, 89793), (207, 89811), (230, 89892), (248, 89970), (250, 89979), (251, 89985), (292, 90177), (299, 90213), (306, 90249), (313, 90306), (336, 90417), (344, 90489), (346, 90495), (358, 90525),

Gene: Thyatira_34 Start: 28924, Stop: 30141, Start Num: 48
Candidate Starts for Thyatira_34:
(Start: 48 @28924 has 250 MA's), (54, 28945), (136, 29158), (149, 29206), (198, 29365), (202, 29383), (204, 29398), (214, 29449), (222, 29476), (223, 29479), (227, 29488), (231, 29503), (234, 29515), (251, 29605), (255, 29620), (256, 29623), (261, 29641), (266, 29659), (272, 29674), (276, 29707), (284, 29755), (285, 29767), (293, 29803), (300, 29833), (302, 29839), (305, 29860), (306, 29866), (307, 29869), (321, 29956), (322, 29959), (328, 29989), (345, 30091), (355, 30118), (359, 30127),

Gene: Tierra_35 Start: 28382, Stop: 29590, Start Num: 48
Candidate Starts for Tierra_35:
(Start: 48 @28382 has 250 MA's), (54, 28400), (93, 28484), (130, 28595), (136, 28613), (183, 28775), (198, 28817), (231, 28955), (234, 28967), (239, 28994), (255, 29069), (272, 29123), (284, 29204), (293, 29252), (295, 29258), (300, 29282), (304, 29306), (305, 29309), (314, 29375), (321, 29405), (336, 29465), (348, 29549), (355, 29567), (361, 29582),

Gene: Tigress9_35 Start: 27546, Stop: 28754, Start Num: 48
Candidate Starts for Tigress9_35:
(Start: 48 @27546 has 250 MA's), (54, 27564), (93, 27648), (130, 27759), (136, 27777), (152, 27840), (183, 27939), (198, 27981), (231, 28119), (234, 28131), (239, 28158), (255, 28233), (272, 28287), (284, 28368), (293, 28416), (295, 28422), (300, 28446), (304, 28470), (305, 28473), (314, 28539), (336, 28629), (361, 28746),

Gene: TinaBelcher_43 Start: 30628, Stop: 31830, Start Num: 59
Candidate Starts for TinaBelcher_43:
(Start: 59 @30628 has 106 MA's), (150, 30868), (155, 30889), (188, 30991), (191, 31000), (202, 31054), (225, 31153), (254, 31285), (255, 31288), (263, 31318), (268, 31336), (305, 31540), (319, 31624), (320, 31633), (338, 31714), (354, 31801), (357, 31807),

Gene: TinaLin_65 Start: 39535, Stop: 40647, Start Num: 85
Candidate Starts for TinaLin_65:
(71, 39508), (Start: 85 @39535 has 11 MA's), (87, 39544), (95, 39556), (Start: 107 @39592 has 45 MA's), (132, 39658), (195, 39853), (209, 39931), (228, 39997), (230, 40006), (233, 40018), (242, 40069), (259, 40135), (266, 40165), (268, 40171), (272, 40180), (287, 40279), (300, 40339), (303, 40351), (304, 40363), (311, 40408), (334, 40516), (340, 40567), (348, 40606), (362, 40642),

Gene: TingHuaYa_35 Start: 27515, Stop: 28723, Start Num: 48
Candidate Starts for TingHuaYa_35:
(Start: 48 @27515 has 250 MA's), (93, 27617), (130, 27728), (136, 27746), (161, 27836), (183, 27905), (198, 27947), (211, 28022), (231, 28088), (234, 28100), (239, 28127), (255, 28202), (266, 28241), (271, 28253), (272, 28256), (284, 28337), (285, 28349), (286, 28352), (289, 28367), (293, 28385), (295, 28391), (300, 28415), (302, 28421), (304, 28439), (306, 28448), (307, 28451), (314, 28508), (329, 28577), (336, 28598), (355, 28700), (361, 28715),

Gene: TiniBug_35 Start: 28299, Stop: 29507, Start Num: 48
Candidate Starts for TiniBug_35:
(Start: 48 @28299 has 250 MA's), (93, 28401), (130, 28512), (136, 28530), (183, 28689), (198, 28731), (211, 28806), (231, 28872), (234, 28884), (239, 28911), (255, 28986), (266, 29025), (271, 29037), (272, 29040), (284, 29121), (285, 29133), (286, 29136), (289, 29151), (293, 29169), (300, 29199), (302, 29205), (304, 29223), (306, 29232), (307, 29235), (314, 29292), (329, 29361), (336, 29382), (355, 29484), (361, 29499),

Gene: Tiri_35 Start: 28374, Stop: 29582, Start Num: 48
Candidate Starts for Tiri_35:

(Start: 48 @28374 has 250 MA's), (93, 28476), (108, 28527), (130, 28587), (136, 28605), (183, 28764), (198, 28806), (211, 28881), (231, 28947), (234, 28959), (239, 28986), (255, 29061), (266, 29100), (284, 29196), (285, 29208), (286, 29211), (289, 29226), (293, 29244), (300, 29274), (302, 29280), (304, 29298), (306, 29307), (307, 29310), (314, 29367), (329, 29436), (336, 29457), (355, 29559), (361, 29574),

Gene: Toma_43 Start: 30039, Stop: 31229, Start Num: 59
Candidate Starts for Toma_43:
(Start: 59 @30039 has 106 MA's), (86, 30087), (109, 30153), (110, 30159), (150, 30273), (202, 30456), (222, 30546), (254, 30687), (255, 30690), (259, 30702), (268, 30738), (272, 30747), (278, 30792), (284, 30837), (295, 30891), (300, 30915), (301, 30918), (319, 31026), (338, 31116), (348, 31185),

Gene: Topper_35 Start: 28393, Stop: 29601, Start Num: 48
Candidate Starts for Topper_35:
(Start: 39 @28369 has 1 MA's), (Start: 48 @28393 has 250 MA's), (93, 28495), (130, 28606), (161, 28714), (183, 28783), (198, 28825), (211, 28900), (231, 28966), (234, 28978), (239, 29005), (255, 29080), (266, 29119), (272, 29134), (284, 29215), (285, 29227), (286, 29230), (289, 29245), (293, 29263), (295, 29269), (300, 29293), (302, 29299), (304, 29317), (306, 29326), (307, 29329), (314, 29386), (321, 29416), (329, 29455), (336, 29476), (355, 29578), (361, 29593),

Gene: Torres_31 Start: 27784, Stop: 28920, Start Num: 48
Candidate Starts for Torres_31:
(Start: 48 @27784 has 250 MA's), (65, 27826), (86, 27871), (105, 27928), (121, 27973), (171, 28060), (191, 28117), (211, 28219), (231, 28285), (234, 28297), (238, 28321), (239, 28324), (255, 28399), (262, 28426), (266, 28438), (272, 28453), (284, 28534), (285, 28546), (293, 28582), (300, 28612), (302, 28618), (304, 28636), (306, 28645), (307, 28648), (321, 28735), (328, 28768), (329, 28774), (336, 28795), (355, 28897), (362, 28915),

Gene: Trax_115 Start: 65319, Stop: 66446, Start Num: 75
Candidate Starts for Trax_115:
(Start: 75 @65319 has 8 MA's), (111, 65421), (127, 65454), (198, 65667), (231, 65808), (235, 65823), (237, 65835), (239, 65847), (256, 65925), (266, 65964), (272, 65979), (275, 66009), (276, 66012), (285, 66072), (287, 66078), (292, 66102), (295, 66114), (300, 66138), (306, 66171), (311, 66207), (314, 66231), (325, 66279), (349, 66408), (350, 66411), (359, 66432), (361, 66438), (362, 66441),

Gene: TreyKay_35 Start: 28323, Stop: 29531, Start Num: 48
Candidate Starts for TreyKay_35:
(Start: 48 @28323 has 250 MA's), (93, 28425), (130, 28536), (136, 28554), (183, 28713), (198, 28755), (211, 28830), (231, 28896), (234, 28908), (239, 28935), (255, 29010), (266, 29049), (271, 29061), (272, 29064), (284, 29145), (285, 29157), (289, 29175), (293, 29193), (295, 29199), (300, 29223), (302, 29229), (306, 29256), (307, 29259), (314, 29316), (321, 29346), (329, 29385), (336, 29406), (355, 29508), (361, 29523),

Gene: TribleTrouble_34 Start: 28818, Stop: 30026, Start Num: 48
Candidate Starts for TribleTrouble_34:
(Start: 48 @28818 has 250 MA's), (54, 28836), (93, 28920), (130, 29031), (136, 29049), (152, 29112), (183, 29211), (198, 29253), (211, 29328), (231, 29391), (234, 29403), (237, 29418), (255, 29505), (284, 29640), (293, 29688), (300, 29718), (305, 29745), (314, 29811), (321, 29841), (336, 29901), (355, 30003), (359, 30012), (361, 30018),

Gene: Trice_31 Start: 27784, Stop: 28920, Start Num: 48
Candidate Starts for Trice_31:

(Start: 48 @27784 has 250 MA's), (65, 27826), (86, 27871), (105, 27928), (121, 27973), (171, 28060), (191, 28117), (211, 28219), (231, 28285), (234, 28297), (238, 28321), (239, 28324), (255, 28399), (262, 28426), (266, 28438), (272, 28453), (284, 28534), (285, 28546), (293, 28582), (300, 28612), (302, 28618), (304, 28636), (306, 28645), (307, 28648), (321, 28735), (328, 28768), (329, 28774), (336, 28795), (355, 28897), (362, 28915),

Gene: Triste_43 Start: 29549, Stop: 30739, Start Num: 59
Candidate Starts for Triste_43:
(Start: 59 @29549 has 106 MA's), (86, 29597), (109, 29663), (110, 29669), (150, 29783), (202, 29966), (222, 30056), (254, 30197), (255, 30200), (259, 30212), (268, 30248), (272, 30257), (278, 30302), (284, 30347), (295, 30401), (300, 30425), (301, 30428), (319, 30536), (338, 30626), (348, 30695),

Gene: Triumph_46 Start: 30620, Stop: 31819, Start Num: 59
Candidate Starts for Triumph_46:
(Start: 59 @30620 has 106 MA's), (84, 30668), (124, 30791), (150, 30860), (155, 30881), (192, 30992), (202, 31043), (254, 31274), (255, 31277), (263, 31307), (268, 31325), (272, 31334), (278, 31379), (319, 31613), (328, 31661), (337, 31694), (338, 31703), (354, 31790), (357, 31796), (361, 31808),

Gene: TruffulaTree_35 Start: 28356, Stop: 29564, Start Num: 48
Candidate Starts for TruffulaTree_35:
(Start: 48 @28356 has 250 MA's), (93, 28458), (130, 28569), (183, 28746), (198, 28788), (211, 28863), (231, 28929), (234, 28941), (239, 28968), (255, 29043), (266, 29082), (272, 29097), (284, 29178), (285, 29190), (286, 29193), (289, 29208), (293, 29226), (300, 29256), (302, 29262), (304, 29280), (306, 29289), (307, 29292), (314, 29349), (321, 29379), (322, 29382), (329, 29418), (336, 29439), (355, 29541), (361, 29556),

Gene: TrvxScott_42 Start: 30674, Stop: 31876, Start Num: 59
Candidate Starts for TrvxScott_42:
(Start: 59 @30674 has 106 MA's), (150, 30914), (155, 30935), (178, 31016), (188, 31037), (191, 31046), (202, 31100), (225, 31199), (247, 31301), (254, 31331), (255, 31334), (263, 31364), (268, 31382), (305, 31586), (319, 31670), (320, 31679), (338, 31760), (354, 31847), (357, 31853),

Gene: TuanPN_42 Start: 29490, Stop: 30680, Start Num: 59
Candidate Starts for TuanPN_42:
(Start: 59 @29490 has 106 MA's), (86, 29538), (109, 29604), (150, 29724), (202, 29907), (222, 29997), (254, 30138), (255, 30141), (259, 30153), (268, 30189), (272, 30198), (274, 30222), (278, 30243), (284, 30288), (295, 30342), (301, 30369), (319, 30477), (338, 30567),

Gene: Twitch_35 Start: 28393, Stop: 29601, Start Num: 48
Candidate Starts for Twitch_35:
(Start: 39 @28369 has 1 MA's), (Start: 48 @28393 has 250 MA's), (93, 28495), (130, 28606), (161, 28714), (183, 28783), (198, 28825), (211, 28900), (231, 28966), (234, 28978), (239, 29005), (255, 29080), (266, 29119), (272, 29134), (284, 29215), (285, 29227), (286, 29230), (289, 29245), (293, 29263), (295, 29269), (300, 29293), (302, 29299), (304, 29317), (306, 29326), (307, 29329), (314, 29386), (321, 29416), (329, 29455), (336, 29476), (355, 29578), (361, 29593),

Gene: Unicorn_35 Start: 27711, Stop: 28919, Start Num: 48
Candidate Starts for Unicorn_35:
(Start: 48 @27711 has 250 MA's), (54, 27729), (93, 27813), (130, 27924), (136, 27942), (183, 28104), (198, 28146), (231, 28284), (234, 28296), (239, 28323), (255, 28398), (272, 28452), (284, 28533), (293, 28581), (295, 28587), (300, 28611), (304, 28635), (305, 28638), (321, 28734), (336, 28794), (348, 28878), (355, 28896), (361, 28911),

Gene: Unstoppable_43 Start: 29207, Stop: 30397, Start Num: 59
Candidate Starts for Unstoppable_43:
(38, 29144), (Start: 59 @29207 has 106 MA's), (86, 29255), (109, 29321), (139, 29408), (150, 29441), (192, 29573), (202, 29624), (222, 29714), (254, 29855), (255, 29858), (259, 29870), (268, 29906), (272, 29915), (274, 29939), (278, 29960), (300, 30083), (301, 30086), (319, 30194), (338, 30284), (360, 30386),

Gene: Urkel_35 Start: 28303, Stop: 29511, Start Num: 48
Candidate Starts for Urkel_35:
(Start: 48 @28303 has 250 MA's), (93, 28405), (130, 28516), (136, 28534), (183, 28693), (198, 28735), (211, 28810), (231, 28876), (234, 28888), (239, 28915), (255, 28990), (266, 29029), (271, 29041), (272, 29044), (284, 29125), (285, 29137), (286, 29140), (289, 29155), (293, 29173), (300, 29203), (302, 29209), (304, 29227), (306, 29236), (307, 29239), (314, 29296), (329, 29365), (336, 29386), (355, 29488), (361, 29503),

Gene: Urza_45 Start: 30120, Stop: 31313, Start Num: 60
Candidate Starts for Urza_45:
(Start: 60 @30120 has 5 MA's), (104, 30219), (109, 30240), (110, 30246), (150, 30360), (155, 30381), (165, 30417), (199, 30522), (202, 30537), (231, 30657), (244, 30729), (254, 30768), (255, 30771), (268, 30819), (272, 30828), (274, 30852), (276, 30861), (278, 30873), (319, 31107), (336, 31182), (338, 31197), (345, 31257), (361, 31302),

Gene: Uterion_35 Start: 10430, Stop: 11626, Start Num: 72
Candidate Starts for Uterion_35:
(Start: 29 @10280 has 1 MA's), (31, 10304), (40, 10358), (Start: 49 @10376 has 1 MA's), (Start: 72 @10430 has 14 MA's), (96, 10496), (124, 10595), (131, 10610), (144, 10637), (148, 10652), (151, 10667), (206, 10877), (223, 10949), (267, 11132), (301, 11315), (316, 11417), (361, 11621),

Gene: Validus_35 Start: 27612, Stop: 28742, Start Num: 48
Candidate Starts for Validus_35:
(Start: 48 @27612 has 250 MA's), (65, 27654), (121, 27801), (183, 27927), (198, 27969), (211, 28044), (234, 28119), (238, 28143), (239, 28146), (255, 28221), (266, 28260), (271, 28272), (272, 28275), (284, 28356), (285, 28368), (293, 28404), (300, 28434), (302, 28440), (304, 28458), (306, 28467), (307, 28470), (314, 28527), (321, 28557), (329, 28596), (336, 28617), (355, 28719), (361, 28734),

Gene: Vanseggelen_48 Start: 30550, Stop: 31737, Start Num: 59
Candidate Starts for Vanseggelen_48:
(Start: 59 @30550 has 106 MA's), (84, 30595), (104, 30646), (109, 30667), (110, 30673), (117, 30694), (150, 30787), (155, 30808), (165, 30844), (172, 30862), (190, 30910), (192, 30916), (202, 30964), (207, 30994), (244, 31156), (254, 31195), (255, 31198), (263, 31228), (268, 31246), (278, 31300), (295, 31399), (302, 31429), (305, 31450), (338, 31624), (360, 31726),

Gene: Veliki_35 Start: 28396, Stop: 29604, Start Num: 48
Candidate Starts for Veliki_35:
(Start: 48 @28396 has 250 MA's), (93, 28498), (130, 28609), (183, 28786), (198, 28828), (211, 28903), (231, 28969), (234, 28981), (239, 29008), (255, 29083), (266, 29122), (272, 29137), (284, 29218), (285, 29230), (286, 29233), (289, 29248), (293, 29266), (295, 29272), (300, 29296), (302, 29302), (304, 29320), (306, 29329), (307, 29332), (314, 29389), (321, 29419), (322, 29422), (329, 29458), (336, 29479), (348, 29563), (355, 29581), (361, 29596),

Gene: Vendetta_66 Start: 40804, Stop: 41925, Start Num: 85
Candidate Starts for Vendetta_66:

(Start: 85 @40804 has 11 MA's), (87, 40813), (95, 40825), (214, 41230), (233, 41296), (242, 41347), (247, 41368), (251, 41386), (259, 41413), (266, 41443), (268, 41449), (287, 41557), (300, 41617), (302, 41623), (304, 41641), (311, 41686), (334, 41794), (348, 41884), (362, 41920),

Gene: Verabelle_47 Start: 31111, Stop: 32298, Start Num: 59
Candidate Starts for Verabelle_47:
(Start: 59 @31111 has 106 MA's), (104, 31207), (109, 31228), (110, 31234), (117, 31255), (150, 31348), (155, 31369), (190, 31471), (192, 31477), (202, 31525), (207, 31555), (244, 31717), (254, 31756), (255, 31759), (263, 31789), (268, 31807), (278, 31861), (284, 31906), (295, 31960), (338, 32185), (360, 32287),

Gene: Verse_43 Start: 31704, Stop: 32891, Start Num: 59
Candidate Starts for Verse_43:
(Start: 59 @31704 has 106 MA's), (104, 31800), (109, 31821), (110, 31827), (117, 31848), (150, 31941), (155, 31962), (165, 31998), (190, 32064), (192, 32070), (202, 32118), (207, 32148), (244, 32310), (254, 32349), (255, 32352), (263, 32382), (268, 32400), (278, 32454), (284, 32499), (295, 32553), (301, 32580), (338, 32778), (360, 32880),

Gene: VieEnRose_45 Start: 30190, Stop: 31383, Start Num: 60
Candidate Starts for VieEnRose_45:
(Start: 60 @30190 has 5 MA's), (104, 30289), (109, 30310), (110, 30316), (150, 30430), (155, 30451), (165, 30487), (199, 30592), (202, 30607), (231, 30727), (244, 30799), (254, 30838), (255, 30841), (268, 30889), (272, 30898), (276, 30931), (278, 30943), (319, 31177), (336, 31252), (338, 31267), (345, 31327), (361, 31372),

Gene: ViviJ_33 Start: 28759, Stop: 29973, Start Num: 48
Candidate Starts for ViviJ_33:
(Start: 48 @28759 has 250 MA's), (54, 28777), (136, 28990), (149, 29038), (198, 29197), (203, 29221), (214, 29281), (223, 29311), (227, 29320), (231, 29335), (234, 29347), (255, 29452), (256, 29455), (261, 29473), (272, 29506), (276, 29539), (284, 29587), (285, 29599), (293, 29635), (300, 29665), (302, 29671), (305, 29692), (306, 29698), (307, 29701), (314, 29758), (321, 29788), (322, 29791), (345, 29923), (349, 29935), (355, 29950), (359, 29959),

Gene: Volt_123 Start: 57630, Stop: 58721, Start Num: 82
Candidate Starts for Volt_123:
(Start: 82 @57630 has 6 MA's), (91, 57651), (147, 57786), (158, 57822), (162, 57834), (175, 57882), (202, 57957), (214, 58023), (215, 58029), (237, 58110), (259, 58209), (271, 58251), (285, 58347), (292, 58371), (293, 58377), (300, 58407), (303, 58419), (311, 58476), (322, 58533), (353, 58695),

Gene: WaddleDee_155 Start: 109525, Stop: 108011, Start Num: 12
Candidate Starts for WaddleDee_155:
(3, 109627), (8, 109591), (11, 109534), (Start: 12 @109525 has 9 MA's), (13, 109489), (32, 109321), (33, 109318), (Start: 56 @109240 has 1 MA's), (73, 109207), (77, 109198), (88, 109165), (137, 109018), (153, 108970), (175, 108889), (210, 108739), (248, 108601), (292, 108385), (302, 108343), (310, 108283), (345, 108070),

Gene: Wanda_165 Start: 85979, Stop: 87139, Start Num: 48
Candidate Starts for Wanda_165:
(Start: 48 @85979 has 250 MA's), (53, 85997), (64, 86021), (100, 86105), (111, 86135), (165, 86258), (175, 86294), (198, 86351), (199, 86354), (204, 86384), (207, 86402), (230, 86483), (248, 86561), (250, 86570), (251, 86576), (292, 86768), (299, 86804), (306, 86840), (313, 86897), (336, 87008), (344, 87080), (346, 87086), (358, 87116),

Gene: Waterfoul_34 Start: 28948, Stop: 30165, Start Num: 48
Candidate Starts for Waterfoul_34:
(Start: 48 @28948 has 250 MA's), (54, 28969), (136, 29182), (149, 29230), (198, 29389), (202, 29407), (204, 29422), (214, 29473), (223, 29503), (227, 29512), (231, 29527), (234, 29539), (251, 29629), (255, 29644), (256, 29647), (261, 29665), (266, 29683), (272, 29698), (276, 29731), (284, 29779), (285, 29791), (293, 29827), (300, 29857), (302, 29863), (305, 29884), (306, 29890), (307, 29893), (314, 29950), (321, 29980), (322, 29983), (328, 30013), (345, 30115), (355, 30142), (359, 30151), (362, 30160),

Gene: Werner_43 Start: 29559, Stop: 30749, Start Num: 59
Candidate Starts for Werner_43:
(Start: 59 @29559 has 106 MA's), (86, 29607), (109, 29673), (110, 29679), (150, 29793), (202, 29976), (222, 30066), (254, 30207), (255, 30210), (259, 30222), (268, 30258), (272, 30267), (278, 30312), (284, 30357), (295, 30411), (300, 30435), (301, 30438), (319, 30546), (338, 30636), (348, 30705),

Gene: Whatever_43 Start: 29559, Stop: 30749, Start Num: 59
Candidate Starts for Whatever_43:
(Start: 59 @29559 has 106 MA's), (86, 29607), (109, 29673), (110, 29679), (150, 29793), (202, 29976), (254, 30207), (255, 30210), (259, 30222), (268, 30258), (272, 30267), (278, 30312), (284, 30357), (295, 30411), (300, 30435), (301, 30438), (319, 30546), (338, 30636), (348, 30705),

Gene: Wintermute_36 Start: 29432, Stop: 30622, Start Num: 48
Candidate Starts for Wintermute_36:
(Start: 48 @29432 has 250 MA's), (108, 29588), (120, 29618), (130, 29648), (161, 29735), (198, 29843), (214, 29927), (231, 29981), (242, 30041), (243, 30050), (247, 30065), (255, 30098), (271, 30149), (272, 30152), (284, 30233), (293, 30281), (295, 30287), (300, 30311), (302, 30317), (305, 30338), (311, 30383), (322, 30440), (346, 30575), (348, 30581), (359, 30608), (361, 30614), (362, 30617),

Gene: Wizzo_26 Start: 19120, Stop: 18074, Start Num: 107
Candidate Starts for Wizzo_26:
(Start: 107 @19120 has 45 MA's), (198, 18841), (236, 18685), (239, 18670), (247, 18628), (253, 18601), (255, 18595), (256, 18592), (260, 18577), (266, 18556), (298, 18385), (303, 18367), (323, 18256), (338, 18187), (345, 18127),

Gene: Wolfstar_32 Start: 10365, Stop: 11558, Start Num: 72
Candidate Starts for Wolfstar_32:
(Start: 29 @10215 has 1 MA's), (31, 10239), (40, 10293), (Start: 49 @10311 has 1 MA's), (Start: 72 @10365 has 14 MA's), (96, 10431), (109, 10479), (151, 10602), (198, 10767), (201, 10776), (223, 10884), (267, 11067), (272, 11079), (279, 11133), (288, 11193), (294, 11217), (316, 11349), (361, 11553),

Gene: Xiaokay_163 Start: 89414, Stop: 90574, Start Num: 48
Candidate Starts for Xiaokay_163:
(Start: 48 @89414 has 250 MA's), (53, 89432), (64, 89456), (100, 89540), (111, 89570), (165, 89693), (175, 89729), (198, 89786), (199, 89789), (204, 89819), (207, 89837), (230, 89918), (248, 89996), (250, 90005), (251, 90011), (292, 90203), (299, 90239), (306, 90275), (313, 90332), (336, 90443), (344, 90515), (346, 90521), (358, 90551),

Gene: Ximenita_36 Start: 27732, Stop: 28865, Start Num: 48
Candidate Starts for Ximenita_36:
(Start: 48 @27732 has 250 MA's), (183, 28050), (198, 28092), (234, 28242), (239, 28269), (255, 28344), (272, 28398), (284, 28479), (293, 28527), (300, 28557), (302, 28563), (304, 28581), (305,

28584), (314, 28650), (321, 28680), (336, 28740), (361, 28857),

Gene: Y10_36 Start: 29432, Stop: 30622, Start Num: 48
Candidate Starts for Y10_36:
(Start: 48 @29432 has 250 MA's), (108, 29588), (120, 29618), (130, 29648), (161, 29735), (164, 29747), (198, 29843), (202, 29861), (214, 29927), (231, 29981), (242, 30041), (243, 30050), (247, 30065), (254, 30095), (255, 30098), (271, 30149), (272, 30152), (284, 30233), (293, 30281), (295, 30287), (300, 30311), (302, 30317), (305, 30338), (311, 30383), (322, 30440), (346, 30575), (359, 30608), (361, 30614), (362, 30617),

Gene: Y2_36 Start: 29432, Stop: 30622, Start Num: 48
Candidate Starts for Y2_36:
(Start: 48 @29432 has 250 MA's), (108, 29588), (120, 29618), (130, 29648), (161, 29735), (164, 29747), (198, 29843), (202, 29861), (214, 29927), (231, 29981), (242, 30041), (243, 30050), (247, 30065), (254, 30095), (255, 30098), (271, 30149), (272, 30152), (284, 30233), (293, 30281), (295, 30287), (300, 30311), (302, 30317), (305, 30338), (311, 30383), (322, 30440), (346, 30575), (359, 30608), (361, 30614), (362, 30617),

Gene: Yappy_76 Start: 36864, Stop: 35626, Start Num: 29
Candidate Starts for Yappy_76:
(28, 36876), (Start: 29 @36864 has 1 MA's), (35, 36825), (43, 36816), (53, 36789), (61, 36783), (96, 36705), (99, 36699), (113, 36648), (169, 36504), (176, 36483), (197, 36426), (200, 36417), (203, 36399), (235, 36279), (245, 36222), (250, 36204), (256, 36180), (259, 36171), (260, 36165), (284, 36039), (292, 36000), (300, 35964), (303, 35952), (321, 35838), (330, 35796), (345, 35682),

Gene: Yasdnil_43 Start: 29608, Stop: 30798, Start Num: 59
Candidate Starts for Yasdnil_43:
(Start: 59 @29608 has 106 MA's), (86, 29656), (109, 29722), (150, 29842), (202, 30025), (222, 30115), (254, 30256), (255, 30259), (259, 30271), (268, 30307), (272, 30316), (274, 30340), (278, 30361), (284, 30406), (295, 30460), (301, 30487), (319, 30595), (338, 30685),

Gene: YasnayaPolyana_36 Start: 29433, Stop: 30623, Start Num: 48
Candidate Starts for YasnayaPolyana_36:
(Start: 48 @29433 has 250 MA's), (108, 29589), (120, 29619), (130, 29649), (161, 29736), (164, 29748), (198, 29844), (202, 29862), (214, 29928), (231, 29982), (242, 30042), (243, 30051), (247, 30066), (254, 30096), (255, 30099), (271, 30150), (272, 30153), (284, 30234), (293, 30282), (295, 30288), (300, 30312), (302, 30318), (305, 30339), (311, 30384), (322, 30441), (346, 30576), (348, 30582), (359, 30609), (361, 30615), (362, 30618),

Gene: Yeet_159 Start: 87367, Stop: 88527, Start Num: 48
Candidate Starts for Yeet_159:
(Start: 48 @87367 has 250 MA's), (53, 87385), (64, 87409), (100, 87493), (111, 87523), (165, 87646), (175, 87682), (198, 87739), (199, 87742), (204, 87772), (207, 87790), (230, 87871), (233, 87883), (248, 87949), (251, 87964), (260, 87997), (292, 88156), (299, 88192), (306, 88228), (313, 88285), (336, 88396), (344, 88468), (346, 88474), (358, 88504),

Gene: Yosif_46 Start: 31673, Stop: 32860, Start Num: 60
Candidate Starts for Yosif_46:
(38, 31607), (Start: 60 @31673 has 5 MA's), (104, 31772), (110, 31799), (124, 31844), (139, 31880), (150, 31913), (191, 32039), (202, 32087), (207, 32117), (222, 32177), (254, 32318), (255, 32321), (263, 32351), (265, 32357), (266, 32363), (268, 32369), (278, 32423), (295, 32522), (300, 32546), (301, 32549), (319, 32657), (338, 32747), (360, 32849),

Gene: YoureAdopted_34 Start: 28329, Stop: 29537, Start Num: 48
Candidate Starts for YoureAdopted_34:
(Start: 39 @28305 has 1 MA's), (Start: 48 @28329 has 250 MA's), (93, 28431), (130, 28542), (161, 28650), (183, 28719), (198, 28761), (211, 28836), (231, 28902), (234, 28914), (239, 28941), (255, 29016), (266, 29055), (272, 29070), (284, 29151), (285, 29163), (286, 29166), (289, 29181), (293, 29199), (300, 29229), (302, 29235), (304, 29253), (306, 29262), (307, 29265), (314, 29322), (321, 29352), (329, 29391), (336, 29412), (355, 29514), (361, 29529),

Gene: Yuna_36 Start: 28128, Stop: 29333, Start Num: 48
Candidate Starts for Yuna_36:
(Start: 48 @28128 has 250 MA's), (93, 28230), (130, 28341), (183, 28518), (198, 28560), (231, 28698), (254, 28809), (272, 28866), (284, 28947), (285, 28959), (293, 28995), (295, 29001), (300, 29025), (304, 29049), (307, 29061), (314, 29118), (321, 29148), (329, 29187), (336, 29208), (338, 29223), (349, 29295), (359, 29319), (361, 29325),

Gene: Yunkel11_35 Start: 27644, Stop: 28852, Start Num: 48
Candidate Starts for Yunkel11_35:
(Start: 48 @27644 has 250 MA's), (93, 27746), (130, 27857), (183, 28034), (198, 28076), (211, 28151), (231, 28217), (234, 28229), (239, 28256), (255, 28331), (266, 28370), (271, 28382), (272, 28385), (284, 28466), (285, 28478), (286, 28481), (289, 28496), (293, 28514), (295, 28520), (300, 28544), (304, 28568), (306, 28577), (307, 28580), (314, 28637), (321, 28667), (329, 28706), (336, 28727), (355, 28829), (361, 28844),

Gene: Zabiza_35 Start: 28360, Stop: 29568, Start Num: 48
Candidate Starts for Zabiza_35:
(Start: 48 @28360 has 250 MA's), (93, 28462), (130, 28573), (183, 28750), (198, 28792), (211, 28867), (231, 28933), (234, 28945), (239, 28972), (255, 29047), (266, 29086), (272, 29101), (284, 29182), (285, 29194), (286, 29197), (289, 29212), (293, 29230), (295, 29236), (300, 29260), (302, 29266), (304, 29284), (306, 29293), (307, 29296), (314, 29353), (321, 29383), (322, 29386), (329, 29422), (336, 29443), (355, 29545), (361, 29560),

Gene: Zainub_46 Start: 31029, Stop: 32231, Start Num: 59
Candidate Starts for Zainub_46:
(Start: 59 @31029 has 106 MA's), (104, 31128), (109, 31149), (110, 31155), (140, 31239), (150, 31269), (155, 31290), (202, 31455), (255, 31689), (268, 31737), (278, 31791), (295, 31890), (305, 31941), (319, 32025), (321, 32040), (337, 32106), (338, 32115), (348, 32184), (354, 32202), (357, 32208),

Gene: ZamZam_43 Start: 31000, Stop: 32187, Start Num: 59
Candidate Starts for ZamZam_43:
(Start: 59 @31000 has 106 MA's), (104, 31096), (109, 31117), (110, 31123), (117, 31144), (150, 31237), (155, 31258), (190, 31360), (192, 31366), (202, 31414), (244, 31606), (254, 31645), (255, 31648), (263, 31678), (268, 31696), (278, 31750), (284, 31795), (295, 31849), (300, 31873), (301, 31876), (305, 31900), (338, 32074), (360, 32176),

Gene: Zavala_35 Start: 28335, Stop: 29543, Start Num: 48
Candidate Starts for Zavala_35:
(Start: 48 @28335 has 250 MA's), (93, 28437), (130, 28548), (183, 28725), (198, 28767), (211, 28842), (231, 28908), (234, 28920), (239, 28947), (255, 29022), (266, 29061), (272, 29076), (284, 29157), (285, 29169), (286, 29172), (289, 29187), (293, 29205), (300, 29235), (302, 29241), (304, 29259), (306, 29268), (307, 29271), (314, 29328), (321, 29358), (329, 29397), (336, 29418), (355, 29520), (361, 29535),

Gene: Zelink_160 Start: 87702, Stop: 88862, Start Num: 48
Candidate Starts for Zelink_160:
(Start: 48 @87702 has 250 MA's), (53, 87720), (64, 87744), (100, 87828), (111, 87858), (165, 87981), (175, 88017), (198, 88074), (199, 88077), (204, 88107), (207, 88125), (230, 88206), (248, 88284), (250, 88293), (251, 88299), (292, 88491), (299, 88527), (306, 88563), (313, 88620), (336, 88731), (344, 88803), (346, 88809), (358, 88839),

Gene: Zemlya_45 Start: 30098, Stop: 31288, Start Num: 59
Candidate Starts for Zemlya_45:
(Start: 59 @30098 has 106 MA's), (86, 30146), (109, 30212), (110, 30218), (150, 30332), (202, 30515), (222, 30605), (254, 30746), (255, 30749), (259, 30761), (268, 30797), (272, 30806), (274, 30830), (278, 30851), (295, 30950), (300, 30974), (301, 30977), (319, 31085), (338, 31175), (348, 31244),

Gene: Ziko_121 Start: 57472, Stop: 58563, Start Num: 82
Candidate Starts for Ziko_121:
(Start: 82 @57472 has 6 MA's), (91, 57493), (147, 57628), (158, 57664), (162, 57676), (172, 57709), (237, 57952), (259, 58051), (271, 58093), (285, 58189), (292, 58213), (293, 58219), (300, 58249), (303, 58261), (311, 58318), (322, 58375), (353, 58537),

Gene: ZoeJ_34 Start: 27607, Stop: 28791, Start Num: 48
Candidate Starts for ZoeJ_34:
(Start: 48 @27607 has 250 MA's), (Start: 60 @27640 has 5 MA's), (120, 27790), (130, 27820), (175, 27952), (198, 28018), (211, 28093), (220, 28123), (231, 28156), (237, 28183), (239, 28195), (255, 28270), (256, 28273), (293, 28453), (295, 28459), (300, 28483), (302, 28489), (303, 28495), (305, 28510), (306, 28516), (314, 28576), (321, 28606), (336, 28666), (355, 28768), (361, 28783), (362, 28786),

Gene: phiCAM_41 Start: 33092, Stop: 34042, Start Num: 150
Candidate Starts for phiCAM_41:
(Start: 59 @32855 has 106 MA's), (102, 32945), (109, 32972), (110, 32978), (139, 33059), (150, 33092), (155, 33113), (190, 33215), (192, 33221), (202, 33269), (207, 33299), (244, 33461), (254, 33500), (255, 33503), (263, 33533), (268, 33551), (278, 33605), (284, 33650), (295, 33704), (301, 33731), (338, 33929), (360, 34031),

Gene: phiHau3_45 Start: 29681, Stop: 30874, Start Num: 59
Candidate Starts for phiHau3_45:
(Start: 59 @29681 has 106 MA's), (67, 29693), (110, 29807), (140, 29891), (150, 29921), (155, 29942), (199, 30083), (263, 30362), (268, 30380), (278, 30434), (280, 30461), (284, 30479), (319, 30668), (337, 30749), (348, 30827), (354, 30845), (357, 30851), (361, 30863),