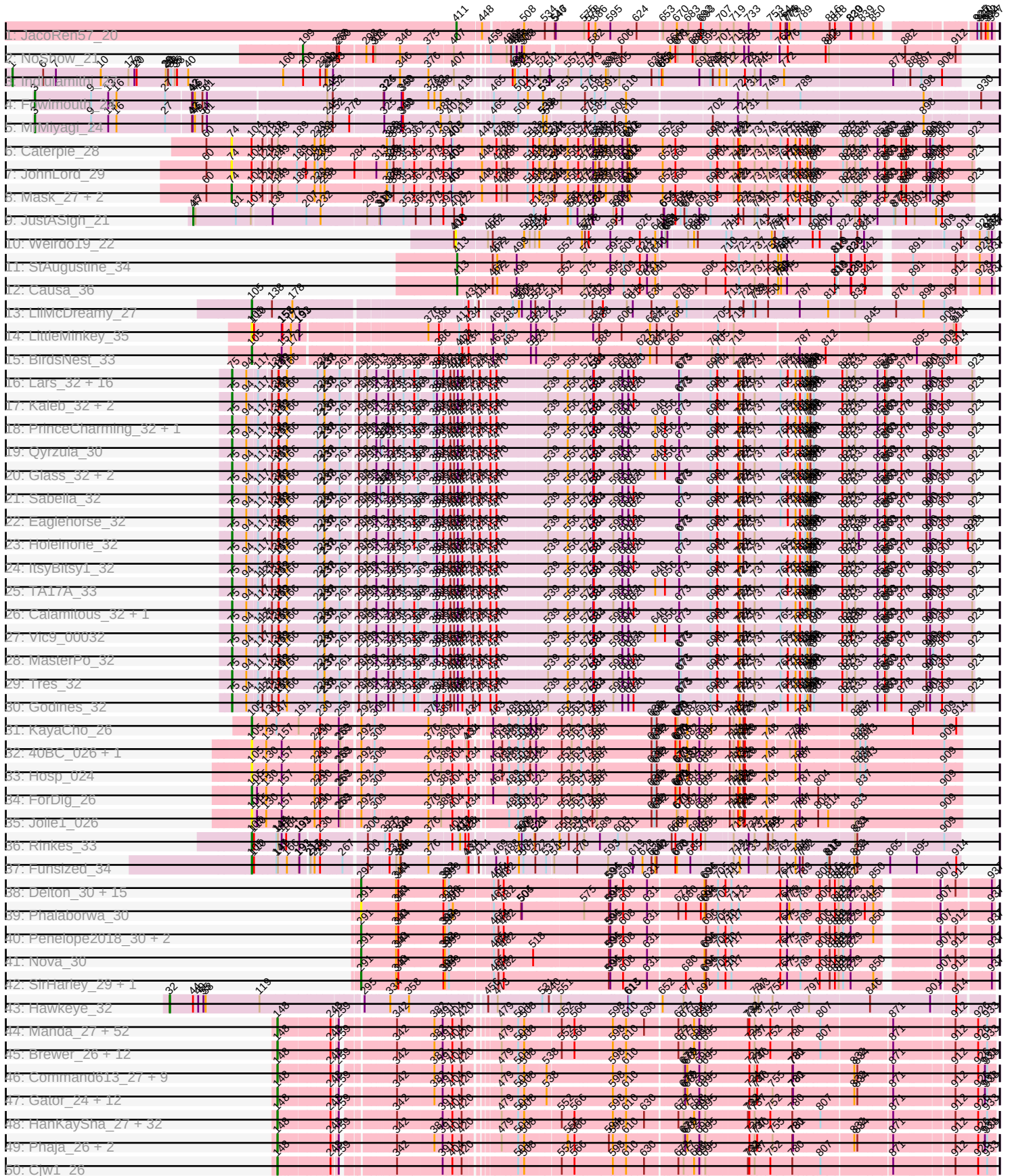


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	148	248	342	391	479	541	598	630	677	752	807	871	912	963
51: Ptowny_26	148	248	342	391	479	541	598	630	677	752	807	871	912	963
52: Pat3_25	148	248	342	391	479	541	598	630	677	752	807	871	912	963
53: Mindy_26 + 5	148	248	342	391	479	541	598	630	677	752	807	871	912	963
54: Budgie_28	148	248	342	391	479	541	598	630	677	752	807	871	912	963
55: BaboJay_25	148	248	342	391	479	541	598	630	677	752	807	871	912	963
56: BadStone_25	148	248	342	391	479	541	598	630	677	752	807	871	912	963
57: Harella_25 + 2	148	248	342	391	479	541	598	630	677	752	807	871	912	963
58: Amad_26	148	248	342	391	479	541	598	630	677	752	807	871	912	963
59: Poltronamos_26	148	248	342	391	479	541	598	630	677	752	807	871	912	963
60: GoldenSpark_28	148	248	342	391	479	541	598	630	677	752	807	871	912	963
61: Thresher_27	148	248	342	391	479	541	598	630	677	752	807	871	912	963
62: Youngblood_26	148	248	342	391	479	541	598	630	677	752	807	871	912	963
63: Clark_18	148	248	342	391	479	541	598	630	677	752	807	871	912	963
64: Blarby_25	148	248	342	391	479	541	598	630	677	752	807	871	912	963
65: Wee_19	148	248	342	391	479	541	598	630	677	752	807	871	912	963
66: ShiLan_18 + 11	148	248	342	391	479	541	598	630	677	752	807	871	912	963
67: Audo_18	148	248	342	391	479	541	598	630	677	752	807	871	912	963
68: Rockne_18 + 2	148	248	342	391	479	541	598	630	677	752	807	871	912	963
69: Saboo_19 + 5	148	248	342	391	479	541	598	630	677	752	807	871	912	963
70: Clinton_18 + 4	148	248	342	391	479	541	598	630	677	752	807	871	912	963
71: Flathead_19	148	248	342	391	479	541	598	630	677	752	807	871	912	963
72: Boomer_19	148	248	342	391	479	541	598	630	677	752	807	871	912	963
73: RitaG_18 + 1	148	248	342	391	479	541	598	630	677	752	807	871	912	963
74: BlueCrab_18 + 11	148	248	342	391	479	541	598	630	677	752	807	871	912	963
75: SG4_18	148	248	342	391	479	541	598	630	677	752	807	871	912	963
76: MisterCuddies_18 + 5	148	248	342	391	479	541	598	630	677	752	807	871	912	963
77: Younger_19 + 10	148	248	342	391	479	541	598	630	677	752	807	871	912	963
78: Ivmpio_18 + 5	148	248	342	391	479	541	598	630	677	752	807	871	912	963
79: Zerg_18	148	248	342	391	479	541	598	630	677	752	807	871	912	963
80: Madiba_19	148	248	342	391	479	541	598	630	677	752	807	871	912	963
81: VRedHorse_18	148	248	342	391	479	541	598	630	677	752	807	871	912	963
82: Cerasum_19 + 3	148	248	342	391	479	541	598	630	677	752	807	871	912	963
83: J0042_21	148	248	342	391	479	541	598	630	677	752	807	871	912	963
84: Doug_19	148	248	342	391	479	541	598	630	677	752	807	871	912	963
85: FootsiePop_19 + 2	148	248	342	391	479	541	598	630	677	752	807	871	912	963
86: Footsieroll_19 + 1	148	248	342	391	479	541	598	630	677	752	807	871	912	963
87: Aioeri_19 + 3	148	248	342	391	479	541	598	630	677	752	807	871	912	963
88: OrUltron_18 + 6	148	248	342	391	479	541	598	630	677	752	807	871	912	963
89: Spikelee_19 + 6	148	248	342	391	479	541	598	630	677	752	807	871	912	963
90: Chuckly_18	148	248	342	391	479	541	598	630	677	752	807	871	912	963
91: Phatniss_19 + 4	148	248	342	391	479	541	598	630	677	752	807	871	912	963
92: Coco12_20 + 3	148	248	342	391	479	541	598	630	677	752	807	871	912	963
93: Hades_18 + 2	148	248	342	391	479	541	598	630	677	752	807	871	912	963
94: Shaunai_18	148	248	342	391	479	541	598	630	677	752	807	871	912	963
95: StAnnes_18	148	248	342	391	479	541	598	630	677	752	807	871	912	963
96: Karndo_18	148	248	342	391	479	541	598	630	677	752	807	871	912	963
97: Strokeseat_18 + 2	148	248	342	391	479	541	598	630	677	752	807	871	912	963
98: Dante_18	148	248	342	391	479	541	598	630	677	752	807	871	912	963
99: Kersh_19	148	248	342	391	479	541	598	630	677	752	807	871	912	963
100: Mova_19	148	248	342	391	479	541	598	630	677	752	807	871	912	963

[illegible]

[illegible]

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201: Pace1224_22 + 1	91	121	141	198	251		308	341	376	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731	751	781	814	823	842	858	886	908	931
202: Avocado_22	91	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		814	823	842	858	886	908	931
203: Pinnie_23	91	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		814	823	842	858	886	908	931
204: Cloudyecho_22	91	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		814	823	842	858	886	908	931
205: MOOREMEMARYer_23	91	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		814	823	842	858	886	908	931
206: Lemuria_23	91	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		814	823	842	858	886	908	931
207: Mercurio_24	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		781	814	823	842	858	886	908	931
208: Jolie2_22	91	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		814	823	842	858	886	908	931
209: Yangyin_22	91	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		814	823	842	858	886	908	931
210: Antsirabe_22	91	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		814	823	842	858	886	908	931
211: Stargaze_22	91	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		814	823	842	858	886	908	931
212: Oaker_29	91	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		814	823	842	858	886	908	931
213: Damien_29 + 4	91	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		814	823	842	858	886	908	931
214: Thumbo_29 + 1	91	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		814	823	842	858	886	908	931
215: Konstantine_34 + 1	91	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		814	823	842	858	886	908	931
216: Puissant_36	91	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		814	823	842	858	886	908	931
217: DrLupo_36	91	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		814	823	842	858	886	908	931
218: Barnyard_36	91	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		814	823	842	858	886	908	931
219: PaintedDog_20	91	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		814	823	842	858	886	908	931
220: Brujita_21 + 1	91	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		814	823	842	858	886	908	931
221: Courthouse_36 + 5	91	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		814	823	842	858	886	908	931
222: Mazeai_36	91	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		814	823	842	858	886	908	931
223: Optimus_37	91	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		814	823	842	858	886	908	931
224: Shaboozey_30 + 4	91	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		814	823	842	858	886	908	931
225: Wanda_39 + 2	91	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		814	823	842	858	886	908	931
226: Duke13_36	91	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		814	823	842	858	886	908	931
227: Minerva_39	91	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		814	823	842	858	886	908	931
228: Gonephishing_34	91	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		814	823	842	858	886	908	931
229: LittleE_39	91	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		814	823	842	858	886	908	931
230: DmpstrDriver_37	91	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		814	823	842	858	886	908	931
231: Dunee_27 + 32	91	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		814	823	842	858	886	908	931
232: MARKPnew_27	91	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		814	823	842	858	886	908	931
233: Suiley_27 + 2	91	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		814	823	842	858	886	908	931
234: Joy99_27	91	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		814	823	842	858	886	908	931
235: Pritivi_27 + 2	91	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		814	823	842	858	886	908	931
236: Adonis_27	91	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		814	823	842	858	886	908	931
237: Zavaia_27 + 4	91	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		814	823	842	858	886	908	931
238: HedwigODO_27 + 7	91	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		814	823	842	858	886	908	931
239: Anaya_28	91	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		814	823	842	858	886	908	931
240: Illumine_27 + 2	91	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		814	823	842	858	886	908	931
241: Pisa4_26 + 1	91	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		814	823	842	858	886	908	931
242: Guanica15_27 + 2	91	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		814	823	842	858	886	908	931
243: Geraldini_27 + 1	91	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		814	823	842	858	886	908	931
244: Tachez_27 + 2	91	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		814	823	842	858	886	908	931
245: LaterM_27	91	121	141	198	251		308	341	376	399	416	431	458	504	531	551	557	580	619	632	668	688	696	722	731		814	823	842	858	886	908	931
246: Dr																																	

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	51	214	388	415	466	548	571	629	645	670	680	715	745	755	803	833	894	912
251. MacKat_27 + 1																		
252. Ganymede_28 + 1																		
253. Simson_28																		
254. Apocalypse_27																		
255. Bella96_27 + 1																		
256. TaiwanKao_28																		
257. BeeZoo_27																		
258. NimBug_27																		
259. CnmD_27																		
260. Bern_27																		
261. Tin_27																		
262. Chris_26																		
263. Oscar_26																		
264. KTST_26																		
265. Ageordapage_27																		
266. Scarlett_26																		
267. Nibb_26																		
268. SamScheppers_26																		
269. DanSy44_29																		
270. Taquito_26																		
271. Eponine_28																		
272. Marshawn_28																		
273. SMPPhilp_26																		
274. Aminay_25																		
275. Boilgate_24																		
276. PoochieWood_20 + 4																		
277. tyson_20 + 1																		
278. OPIE_20																		
279. Silverleaf_20																		
280. LeBron_20																		
281. AvadaKedavra_20																		
282. Appletree2_20 + 3																		
283. OnSnagHennessy_20																		
284. Calm_20 + 1																		
285. CicholasNage_20 + 1																		
286. Raymond7_20																		
287. Phirani_20																		
288. vagabond_58 + 21																		
289. YungJamal_63 + 7																		
290. Ryaderi_62																		
291. Smooch_61 + 1																		
292. Bora_56																		
293. Shipwreck_20 + 1																		
294. Alcoo_21																		
295. Pygmy_20																		
296. BrommyJr_21																		
297. Xavia_21																		
298. NovopZagZ399																		
299. Genon_310																		
300. Rope_30 + 2																		

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B01: Cleo_30	76	8	12	183	391	393	394	395	183	278	345	375	376	467	506	551	568	580	590	603	604	605	716	789	803	815	852	859	914	916
B02: Papyrus_30	76	8	12	183	391	393	394	395	183	278	345	375	376	467	506	551	568	580	590	603	604	605	716	789	803	815	852	859	914	916
B03: Weiss_30	76	8	12	183	391	393	394	395	183	278	345	375	376	467	506	551	568	580	590	603	604	605	716	789	803	815	852	859	914	916
B04: MontyLev_30	76	8	12	183	391	393	394	395	183	278	345	375	376	467	506	551	568	580	590	603	604	605	716	789	803	815	852	859	914	916
B05: Mio_30	76	8	12	183	391	393	394	395	183	278	345	375	376	467	506	551	568	580	590	603	604	605	716	789	803	815	852	859	914	916
B06: Riparian_30	76	8	12	183	391	393	394	395	183	278	345	375	376	467	506	551	568	580	590	603	604	605	716	789	803	815	852	859	914	916
B07: MaryV_43 + 1	76	8	12	183	391	393	394	395	183	278	345	375	376	467	506	551	568	580	590	603	604	605	716	789	803	815	852	859	914	916
B08: Cosmo_43	76	8	12	183	391	393	394	395	183	278	345	375	376	467	506	551	568	580	590	603	604	605	716	789	803	815	852	859	914	916
B09: Azrael100_42	76	8	12	183	391	393	394	395	183	278	345	375	376	467	506	551	568	580	590	603	604	605	716	789	803	815	852	859	914	916
B10: EniyanLRS_40	76	8	12	183	391	393	394	395	183	278	345	375	376	467	506	551	568	580	590	603	604	605	716	789	803	815	852	859	914	916
B11: GodPhatner_25	76	8	12	183	391	393	394	395	183	278	345	375	376	467	506	551	568	580	590	603	604	605	716	789	803	815	852	859	914	916
B12: DIZ_24 + 1	76	8	12	183	391	393	394	395	183	278	345	375	376	467	506	551	568	580	590	603	604	605	716	789	803	815	852	859	914	916
B13: Jeon_24	76	8	12	183	391	393	394	395	183	278	345	375	376	467	506	551	568	580	590	603	604	605	716	789	803	815	852	859	914	916
B14: Gara_21	76	8	12	183	391	393	394	395	183	278	345	375	376	467	506	551	568	580	590	603	604	605	716	789	803	815	852	859	914	916
B15: Nebkiss_22	76	8	12	183	391	393	394	395	183	278	345	375	376	467	506	551	568	580	590	603	604	605	716	789	803	815	852	859	914	916
B16: Kumao_30	76	8	12	183	391	393	394	395	183	278	345	375	376	467	506	551	568	580	590	603	604	605	716	789	803	815	852	859	914	916
B17: MOOMOO_18	76	8	12	183	391	393	394	395	183	278	345	375	376	467	506	551	568	580	590	603	604	605	716	789	803	815	852	859	914	916

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 311023 Report

This analysis was run 06/27/26 on database version 652.

Pham number 311023 has 739 members, 68 are drafts.

Phages represented in each track:

- Track 1 : JacoRen57_20
- Track 2 : NoShow_21
- Track 3 : Indlulamithi_27
- Track 4 : Fowlmouth_24
- Track 5 : MrMiyagi_24
- Track 6 : Caterpie_28
- Track 7 : JohnLord_29
- Track 8 : Mask_27, Mao1_26, Sejanus_27
- Track 9 : JustASigh_21
- Track 10 : Weirido19_22
- Track 11 : StAugustine_34
- Track 12 : Causa_36
- Track 13 : LilMcDreamy_27
- Track 14 : LittleMinkey_35
- Track 15 : BirdsNest_33
- Track 16 : Lars_32, Rosebush_32, West99_32, Opia_32, Boyle_32, Arbiter_32, Kheth_32, Hedgerow_32, Coffee_32, Blocker23_32, Ares_32, FrenchFry_32, Rhinoforte_32, Phantasmagoria_32, Tinciduntolum_33, Faze9_32, Brownie5_32
- Track 17 : Kaleb_32, Lephleur_32, Kolhan_32
- Track 18 : PrinceCharming_32, Bananafish_32
- Track 19 : Qyrzula_30
- Track 20 : Glass_32, Allegro_32, LizLemon_32
- Track 21 : Sabella_32
- Track 22 : Eaglehorse_32
- Track 23 : Holeinone_32
- Track 24 : ItsyBitsy1_32
- Track 25 : TA17A_33
- Track 26 : Calamitous_32, LilSmirk_32
- Track 27 : Vic9_00032
- Track 28 : MasterPo_32
- Track 29 : Tres_32
- Track 30 : Godines_32
- Track 31 : KayaCho_26
- Track 32 : 40BC_026, 39HC_026
- Track 33 : Hosp_024
- Track 34 : ForDig_26
- Track 35 : Jolie1_026

- Track 36 : Rinkes_33
- Track 37 : Funsized_34
- Track 38 : Delton_30, Erk16_30, KandZ_30, Visconti_30, Troll4_30, PLOt_31, Prager_30, Giuseppe_30, Mopey_30, ThoTh_30, WaldoWhy_31, PBI1_30, BigMama_28, Butterscotch_30, Adjutor_31, Chill_31
- Track 39 : Phalaborwa_30
- Track 40 : Penelope2018_30, SuperheroCarly_30, Helpful_31
- Track 41 : Nova_30
- Track 42 : SirHarley_29, Gumball_29
- Track 43 : Hawkeye_32
- Track 44 : Manda_27, Terminus_26, Goldilocks_27, Murphy_27, Gage_28, Willez_25, TeamEdward_26, Holt_27, Thimble_26, Teaspoon_27, Porky_26, Buck_25, Miniwave_26, PhatBacter_26, Cookies_26, Murica_25, Pharsalus_27, Inca_25, Liveloughbron_26, Filch_27, Tarkin_28, NonchalantPear_26, Palpatine_26, HuffyPuff_25, Petra64142_28, FireRed_26, Phaux_25, StellaBean_26, TBrady12_28, Bogg_26, AmericanBeauty_28, MPhalcon_25, Misfit_26, Paperbeatsrock_28, Nala_26, Argent26_28, MISSy_25, Nimrod_26, Highbury_27, Becksu_26, SophKB_26, Gemini_29, GooberAzure_28, StormChicken_26, Kanye_28, BugsBunny_24, Saints25_27, Kimchi_28, ShereKhan_28, Stank_29, Qualification_27, Easy2Say_28, Sassay_25
- Track 45 : Brewer_26, YassJohnny_27, Greep_27, Contagion_25, Mosby_25, MollyToe_26, Tomaszewski_25, BigBubba_27, Bruin_26, ChotaBhai_26, xkcd_27, Rimmer_25, FoghornLeghorn_25
- Track 46 : Command613_27, Marshmallow_26, Icee_25, Bask21_26, Sotrice96_26, Kostya_26, CrystalP_26, BilboSwaggins_26, Cactus_27, SirDuracell_25
- Track 47 : Gator_24, Dusk_25, Rakim_27, ABCat_25, Asriel_25, Barbarian_25, Goku_26, Myrale_26, Balomaji_25, Tuco_27, Traaww1_24, TeardropMSU_25, Eureka_26
- Track 48 : HanKaySha_27, Phrux_26, Xandras_28, Wiggin_29, Adnama_29, Lilizi_28, Stark_27, Moldemort_27, Czyszczo1_27, RiverMonster_26, Elite2014_25, Bench_28, ChosenOne_25, DoctorDiddles_26, DrDrey_27, Simpliphy_27, Lilpickle_25, PaddyBaddy_27, Pumpkin_28, MadamMonkfish_26, NoSleep_27, Dumbo_26, Ukulele_26, OrionPax_27, Elph10_27, Maxxinista_27, JeTaime_28, Hopey_28, 244_28, StolenFromERC_28, Hoonter_28, Lilac_28, Emmina_27
- Track 49 : Phaja_26, IHOP_26, FairyPath_26
- Track 50 : Cjw1_26
- Track 51 : Ptowny_26
- Track 52 : Pat3_25
- Track 53 : Mindy_26, NelitzaMV_26, Henry_26, Daikon_24, ShamWow_26, Toto_26
- Track 54 : Budgie_28
- Track 55 : BaboJay_25
- Track 56 : BadStone_25
- Track 57 : Harella_25, Flypotenuse_24, Glexan_24
- Track 58 : Amao_26
- Track 59 : Policronamos_26
- Track 60 : GoldenSpark_28
- Track 61 : Thresher_27
- Track 62 : Youngblood_26
- Track 63 : Clank_18
- Track 64 : Blarby_25
- Track 65 : Wee_19
- Track 66 : ShiLan_18, Gandolph_18, Burwell21_18, OlympiaSaint_18, NormanBulbieJr_18, ShowerHandel_18, Priscilla_18, Yorick_18, Jacob_18,

Spoonbill_18, Martik_18, Cabrinians_18

- Track 67 : Aubs_18
- Track 68 : Rockne_18, Llij_18, PMC_18
- Track 69 : Sabbb_19, Mattes_18, BobaPhett_18, Gorge_18, James_18, LilMoolah_18
- Track 70 : Clifton_18, LastJedi_18, Crumble_18, Jennelsea_18, Koella_18
- Track 71 : Flathead_19
- Track 72 : Boomer_19
- Track 73 : RitaG_18, Lucia_19
- Track 74 : BlueCrab_18, Pacc40_18, Daenerys_18, PHappiness_18, Dorothy_18, KingMidas_19, JoeyJr_18, OldBen_18, Polka14_19, DaddyRickover_18, IbOuu_18, Scottish_19
- Track 75 : SG4_18
- Track 76 : MisterCuddles_18, GUmbie_18, Girr_18, Veteran_18, Phasih_19, Ruby_18
- Track 77 : Totinger_19, Vivum_18, Emmaloid_19, Tchotchke_19, Slim_19, Rialto_20, EmiMonkey_18, Starcevich_19, GigiOuiOui_18, PhilipPhlop_18, LittleShirley_19
- Track 78 : TPilo_18, Firehouse51_19, Minnie_19, Leozinho_19, MilleniumForce_19, Whatsapiecost_18
- Track 79 : Zerg_18
- Track 80 : Madiba_19
- Track 81 : VRedHorse_18
- Track 82 : Cerasum_19, BigPhil_19, Velveteen_19, Sarma624_19
- Track 83 : Job42_21
- Track 84 : Doug_19
- Track 85 : TootsiePop_19, Awesomesauce_19, Misha28_19
- Track 86 : Tootsieroll_19, Radiance_18
- Track 87 : Aloeri_19, ChickenDinner_19, DocMcStuffins_19, Piper2020_19
- Track 88 : OfUltron_18, Jinglebell_17, Llama_18, Modragons_18, AlpineSix_18, Seabastian_18, Ochi17_18
- Track 89 : Spikelee_19, RedBird_18, BuzzLyseyear_20, RockyHorror_19, WillSterrel_19, IrishSherpFalk_19, Mantra_18
- Track 90 : Chuckly_18
- Track 91 : Phatniss_19, Drago_19, UncleRicky_19, Enby_19, Lorde_19
- Track 92 : Coco12_20, Phanphagia_18, Brookers_19, Kingsley_19
- Track 93 : Hades_18, OwlsT2W_20, DosHalletts_19
- Track 94 : Shauna1_18
- Track 95 : StAnnes_18
- Track 96 : Karhdo_18
- Track 97 : Strokeseat_18, Hlubikazi_18, Mandlovu_18
- Track 98 : Dante_18
- Track 99 : Kersh_19
- Track 100 : Mova_19
- Track 101 : Moonbeam_19, Kimberlium_20, Juice456_20, QuickMath_19, MulchExplorer_20
- Track 102 : Mozy_19
- Track 103 : SuperGrey_19
- Track 104 : PatoPoderoso_18, Doomslug_20, EleanorGeorge_18, KristaRAM_19, Batiatus_18, KingJulian_18, Corium_18, JalFarm20_20, Fruitloop_18
- Track 105 : DotProduct_18
- Track 106 : NewHope4_19, Polo2Bam_20, Enzomatic_20, SeaLumen_19
- Track 107 : MinionDave_19, CaptainTrips_19

- Track 108 : Brushbloom_19
- Track 109 : Ibhubesi_18, Harley_18
- Track 110 : Nitzel_19
- Track 111 : Taj_18, DeadP_18
- Track 112 : Peridot_20
- Track 113 : Pippy_18
- Track 114 : Nivrat_18, Lizziana_18
- Track 115 : ByChance_18
- Track 116 : PhesterPhotato_18
- Track 117 : Ramsey_19
- Track 118 : Nimbo_18, Blexus_18, Geralt_18, Inventum_18, Deb65_18, Sassafras_18
- Track 119 : XFactor_18, Galactic_18, Filuzino_18
- Track 120 : Mwanjiwa_18
- Track 121 : Che8_18
- Track 122 : Fancypants_18
- Track 123 : ShroomBoi_18
- Track 124 : TDanisky_18, Philus_18, DRBy19_18, Saal_18, Sparkdehlily_18, SwagPigglett_18
- Track 125 : Spartacus_19
- Track 126 : SimranZ1_19
- Track 127 : Whouxphf_18
- Track 128 : DLane_18
- Track 129 : Donkeykong_18
- Track 130 : Rita_18
- Track 131 : LunaBlu_19
- Track 132 : ArcusAngelus_18, DaWorst_20, Alexphander_20, Chevrolet_18
- Track 133 : DoRead_18
- Track 134 : Mutaforma13_18
- Track 135 : Pollywog_21, Ogopogo_21
- Track 136 : Royals2015_18
- Track 137 : Emma_18, Tweety_18
- Track 138 : Bubbles123_19
- Track 139 : Stap_19
- Track 140 : Wachhund_18
- Track 141 : Phalconet_18
- Track 142 : Oksu_19
- Track 143 : Quico_19, Girafales_19, Florinda_18
- Track 144 : Guppsters_19
- Track 145 : Estave1_18
- Track 146 : Mahavrat_18, Juniper1_18
- Track 147 : Jant_18
- Track 148 : Plumbus_19
- Track 149 : Ovechkin_18
- Track 150 : Medindi_18
- Track 151 : Krakatau_19
- Track 152 : Hegedechwinu_19
- Track 153 : Eish_18
- Track 154 : Hamulus_18
- Track 155 : Beanstalk_20
- Track 156 : Sandalphon_19
- Track 157 : SiSi_18
- Track 158 : Grimmer_19

- Track 159 : Poenanya_18, Doomphist_18
- Track 160 : SassyB_18, PopTart_18
- Track 161 : Seagreen_19
- Track 162 : Cornucopia_19, Marker_19
- Track 163 : Leperchaun_18
- Track 164 : Eradicator_18
- Track 165 : Maravista_18
- Track 166 : Topiatin_20
- Track 167 : Empress_19
- Track 168 : Melissauren88_18
- Track 169 : Zizzle_18
- Track 170 : Violac_19
- Track 171 : Nichirin_18
- Track 172 : Beakin_19
- Track 173 : Bipolar_18
- Track 174 : MadMen_19
- Track 175 : DillTech15_18
- Track 176 : FreddyB_18
- Track 177 : BodEinwohner17_18
- Track 178 : Byougenkin_18
- Track 179 : Fastidio_18
- Track 180 : DirtMcgirt_19
- Track 181 : Bobi_20
- Track 182 : Latretium_19
- Track 183 : Ardmore_18
- Track 184 : Frankie_19
- Track 185 : Cheesepuff_20
- Track 186 : Kenuha5_18
- Track 187 : Zapner_25, Jabbawokkie_26
- Track 188 : Avani_24
- Track 189 : Soul22_24
- Track 190 : Demsculpinboyz_24
- Track 191 : Che9d_24
- Track 192 : SilverChicken_24
- Track 193 : Yoshi_24
- Track 194 : LunaStella_20
- Track 195 : ThetaBob_20
- Track 196 : Renaud18_20
- Track 197 : Cornie_20
- Track 198 : Toron_20
- Track 199 : Cambiare_23
- Track 200 : GodSpeed_23
- Track 201 : Pace1224_22, FlagStaff_22
- Track 202 : Avocado_22
- Track 203 : Pinnie_23
- Track 204 : Cloudyecho_22
- Track 205 : MOOREtheMARYer_23
- Track 206 : Lemuria_23
- Track 207 : Mercurio_24
- Track 208 : Jolie2_22
- Track 209 : YangYin_22
- Track 210 : Antsirabe_22
- Track 211 : Stargaze_22

- Track 212 : Oaker_29
- Track 213 : Damien_29, Nish23_30, Beckerton_29, Cborch11_30, Megatron06_31
- Track 214 : Thumb_29, BobtimousPrime_31
- Track 215 : Konstantine_34, Phreeze_29
- Track 216 : Puissant_30
- Track 217 : DrLupo_38
- Track 218 : Barnyard_36
- Track 219 : PaintedDog_20
- Track 220 : Brujita_21, Island3_21
- Track 221 : Courthouse_36, Squint_35, Porcelain_35, Ariel_36, Superphikiman_36, Lucky2013_36
- Track 222 : MiaZeal_36
- Track 223 : Optimus_37
- Track 224 : Shaboozey_30, Hannaconda_33, KashFlow_30, BronnyJames_30, Nibley_31
- Track 225 : Wanda_39, BAKA_36, Omega_38
- Track 226 : Duke13_36
- Track 227 : Minerva_39
- Track 228 : Gonephishing_34
- Track 229 : LittleE_39
- Track 230 : DmpstrDiver_37
- Track 231 : Durfee_27, Dalmuri_27, Inky_27, Asayake_27, Jeckyll_27, Capricorn_27, BGIuviae_27, CallaLilly_27, Pokerus_26, Ramen_27, Boiii_27, Belladonna_27, Jarvi_27, Peel_27, Padfoot_27, AlishaPH_27, Twitch_27, CaseJules_27, Llorens_27, Piatt_27, BaghaKamala_27, JAWS_27, BEEST_27, Hyperbowlee_27, Spock_27, BarrelRoll_27, Topper_27, CREW_27, Blizzard_27, Homura_27, Rosmarinus_27, ShiaSurprise_27, Lunahalos_27
- Track 232 : MarkPhew_27
- Track 233 : Sulley_27, Angelica_27, Deby_27
- Track 234 : Joy99_27
- Track 235 : Prithvi_27, LindNT_27, TreyKay_27
- Track 236 : Adonis_27
- Track 237 : Zavala_27, Mynx_27, Emerson_27, TruffulaTree_27, Padpat_27
- Track 238 : HedwigODU_27, Veliki_27, Zabiza_27, Rapunzel97_27, Jayhawk_27, Adephagia_27, Slimphazie_27, ActinUp_27
- Track 239 : Anaya_28
- Track 240 : Illumine_27, Devera_27, Dole_27
- Track 241 : Pisa4_26, Pisa1_26
- Track 242 : Guanica15_27, Yunkel11_27, Efra2_27
- Track 243 : Geraldini_27, MeaningOfLife_27
- Track 244 : Tachez_27, YoureAdopted_26, Atiba_27
- Track 245 : LaterM_27
- Track 246 : DrHayes_27, Anma_27, Urkel_27, SamuelLPlaqson_27
- Track 247 : Megsy_27
- Track 248 : Murucutumbu_27
- Track 249 : CheetoDust_27
- Track 250 : LeMond_26
- Track 251 : MacKat_27, Clipper_27
- Track 252 : Ganymede_28, QuincyRose_26
- Track 253 : Stinson_28
- Track 254 : Apocalypse_27
- Track 255 : Bella96_27, DartGoblin_27
- Track 256 : TaiwanKao_28

- Track 257 : Beezoo_27
- Track 258 : TiniBug_27
- Track 259 : CrimD_27
- Track 260 : Bern_27
- Track 261 : Tiri_27
- Track 262 : Chris_26
- Track 263 : Oscar_26
- Track 264 : KiSi_26
- Track 265 : Ageofdapage_27
- Track 266 : Scarlett_26
- Track 267 : Nibb_26
- Track 268 : SamScheppers_26
- Track 269 : DanSyl44_29
- Track 270 : Taquito_26
- Track 271 : Eponine_28
- Track 272 : Marshawn_28
- Track 273 : SirPhilip_26
- Track 274 : Aminay_25
- Track 275 : Boilgate_24
- Track 276 : Poochiewood_20, Rose5_20, Acquire49_20, Wyatt2_20, MAckerman_20
- Track 277 : Tyson_20, Wamburggrxpress_20
- Track 278 : UPIE_20
- Track 279 : SilverLeaf_20
- Track 280 : LeBron_20
- Track 281 : AvadaKedavra_20
- Track 282 : Appletree2_20, JoeDirt_20, Enceladus_20, DirkDirk_20
- Track 283 : OhShagHennessey_20
- Track 284 : Calm_20, Zaria_20
- Track 285 : CicholasNage_20, Halena_20
- Track 286 : Raymond7_20
- Track 287 : Phrann_20
- Track 288 : Vagabond_58, Krili_57, SchoolBus_58, Idergollasper_58, YoyoKar_56, Mori_58, Wogge42_57, MadKillah_59, Alkhayr_58, NiebruSaylor_57, Imara_56, Schuy_59, Familton_59, FoulBall_58, Winget_59, TelAviv_55, Blessica_59, KingPhillip3_58, Zebo_58, Catdawg_58, JangDynasty_58, Vorrrps_58
- Track 289 : YungJamal_63, Wildflower_58, Corndog_61, Shida_58, Dylan_58, Murai_59, Ashwin_60, Zakhe101_58
- Track 290 : Ryadel_62
- Track 291 : Smooch_61, Firecracker_59
- Track 292 : Bora_56
- Track 293 : Shipwreck_20, Bogie_20
- Track 294 : Atcoo_21
- Track 295 : Pygmy_20
- Track 296 : BronnyJr_21
- Track 297 : Xavia_21
- Track 298 : NovoPizza_23
- Track 299 : Zenon_31
- Track 300 : Rope_30, Send513_30, Candle_30
- Track 301 : Yelo_30
- Track 302 : Papyrus_30
- Track 303 : Weiss13_30
- Track 304 : MontyDev_30

- Track 305 : Nilo_31
- Track 306 : Riparian_30
- Track 307 : MaryV_43, Wildcat_43
- Track 308 : Cosmo_43
- Track 309 : Azrael100_42
- Track 310 : EniyanLRS_40
- Track 311 : GodPhather_25
- Track 312 : D12_24, PR_24
- Track 313 : Jeon_24
- Track 314 : Gaia_21
- Track 315 : Nebkiss_22
- Track 316 : Kumao_30
- Track 317 : MooMoo_18

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

The start number called the most often in the published annotations is 100, it was called in 238 of the 671 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alexphander_20, Aloeri_19, AlpineSix_18, ArcusAngelus_18, Ardmore_18, Ariel_36, Aubs_18, Awesomesauce_19, BAKA_36, Batiatus_18, Beakin_19, Beanstalk_20, Bipolar_18, Blexus_18, BlueCrab_18, BobaPhett_18, Bobi_20, BodEinwohner17_18, Boomer_19, BronnyJames_30, Brookers_19, Brushbloom_19, Bubbles123_19, Burwell21_18, BuzzLyseyear_20, ByChance_18, Byougenkin_18, Cabrinians_18, CaptainTrips_19, Che8_18, CheesePuff_20, Chevrolet_18, ChickenDinner_19, Chuckly_18, Clank_18, Coco12_20, Corium_18, Cornucopia_19, Courthouse_36, DLane_18, DRBy19_18, DaWorst_20, DaddyRickover_18, Daenerys_18, Dante_18, DeadP_18, Deb65_18, DillTech15_18, DirtMcGirt_19, DmpstrDiver_37, DoRead_18, DocMcStuffins_19, Donkeykong_18, Doomphist_18, Doomslug_20, Dorothy_18, DosHalletts_19, DotProduct_18, Doug_19, Drago_19, Duke13_36, Eish_18, EleanorGeorge_18, EmiMonkey_18, Emma_18, Emmaloid_19, Empress_19, Enby_19, Enzomatic_20, Eradicator_18, Estave1_18, Fancypants_18, Fastidio_18, Filuzino_18, Firehouse51_19, Flathead_19, Florinda_18, Frankie_19, FreddyB_18, Fruitloop_18, GUmbie_18, Galactic_18, Gandolph_18, Geralt_18, GigiOuiOui_18, Girafales_19, Girr_18, Gorge_18, Grimmer_19, Guppsters_19, Hades_18, Hamulus_18, Hannaconda_33, Harley_18, Hegedechwinu_19, Hlubikazi_18, IMpilo_18, IbOuu_18, Ibhubesi_18, Inventum_18, IrishSherpFalk_19, JalFarm20_20, James_18, Jant_18, Jarcob_18, Jinglebell_17, Job42_21, JoeyJr_18, Juice456_20, Juniper1_18, Karhdo_18, KashFlow_30, Kenuha5_18, Kersh_19, Kimberlium_20, KingJulian_18, KingMidas_19, Kingsley_19, Krakatau_19, KristaRAM_19, Latretium_19, Leozinho_19, Leperchaun_18, LilMoolah_18, LittleE_39, LittleShirley_19, Lizziana_18, Llama_18, Llij_18, Lorde_19, Lucia_19, Lucky2013_36, LunaBlu_19, MadMen_19, Madiba_19, Mahavrat_18, Mandlovu_18, Mantra_18, Maravista_18, Marker_19, Martik_18, Mattes_18, Medindi_18, MiaZeal_36, MilleniumForce_19, Minerva_39, MinionDave_19, Minnie_19, Misha28_19, MisterCuddles_18, Modragons_18, MooMoo_18, Moonbeam_19, Mova_19, Mozy_19, MulchExplorer_20, Mutaforma13_18, Mwanjiwa_18, NewHope4_19, Nibley_31, Nichirin_18, Nimbo_18, Nitzel_19, Nivrat_18, NormanBulbieJr_18, Ochi17_18, OfUltron_18, Ogopogo_21, Oksu_19, OldBen_18, OlympiaSaint_18,

Omega_38, Optimus_37, Ovechkin_18, OwlsT2W_20, PHappiness_18, PMC_18, Pacc40_18, PatoPoderoso_18, Peridot_20, Phalconet_18, Phanphagia_18, Phasih_19, Phatniss_19, PhesterPhotato_18, Philus_18, PhilipPhlop_18, Piper2020_19, Plumbus_19, Poenanya_18, Polka14_19, Pollywog_21, Polo2Bam_20, PopTart_18, Porcelain_35, Priscilla_18, QuickMath_19, Quico_19, Radiance_18, Ramsey_19, RedBird_18, Rialto_20, RitaG_18, Rita_18, Rockne_18, RockyHorror_19, Royals2015_18, Ruby_18, SG4_18, Saal_18, Sabbbb_19, Sandalphon_19, Sassafras_18, SassyB_18, Scottish_19, SeaLumen_19, Seabastian_18, Seagreen_19, Shaboozey_30, Shauna1_18, ShiLan_18, ShowerHandel_18, ShroomBoi_18, SiSi_18, SimranZ1_19, Slim_19, Sparkdehlily_18, Spartacus_19, Spikelee_19, Spoonbill_18, Squint_35, StAnnes_18, Stap_19, Starcevich_19, Strokeseat_18, SuperGrey_19, Superphikiman_36, SwagPiggett_18, TDanisky_18, Taj_18, Tchotchke_19, TootsiePop_19, Tootsieroll_19, Topiatin_20, Totinger_19, Tweety_18, UncleRicky_19, VRedHorse_18, Veteran_18, Violac_19, Vivum_18, Wachhund_18, Wanda_39, Wee_19, Whatsapiecost_18, Whouxphf_18, WillSterrel_19, XFactor_18, Yorick_18, Zerg_18, Zizzle_18,

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

- Avani_24, Che9d_24, Demsculpinboyz_24, Gonephishing_34, Jabbawokkie_26, Melissauren88_18, Soul22_24, Yoshi_24, Zapner_25,

Genes that do not have the "Most Annotated" start:

- 244_28, 39HC_026, 40BC_026, ABCat_25, Acquire49_20, ActinUp_27, Adephagia_27, Adjutor_31, Adnama_29, Adonis_27, Ageofdapage_27, AlishaPH_27, Alkhayr_58, Allegro_32, Amao_26, AmericanBeauty_28, Aminay_25, Anaya_28, Angelica_27, Anma_27, Antsirabe_22, Apocalypse_27, Appletree2_20, Arbiter_32, Ares_32, Argent26_28, Asayake_27, Ashwin_60, Asriel_25, Atcoo_21, Atiba_27, AvadaKedavra_20, Avocado_22, Azrael100_42, BEEST_27, BGlluviae_27, BaboJay_25, BadStone_25, BaghaKamala_27, Balomoji_25, Bananafish_32, Barbarian_25, Barnyard_36, BarrelRoll_27, Bask21_26, Beckerton_29, Becksu_26, Beezoo_27, Bella96_27, Belladonna_27, Bench_28, Bern_27, BigBubba_27, BigMama_28, BigPhil_19, BilboSwaggins_26, BirdsNest_33, Blarby_25, Blessica_59, Blizzard_27, Blocker23_32, BobtimousPrime_31, Bogg_26, Bogie_20, Boiii_27, Boilgate_24, Bora_56, Boyle_32, Brewer_26, BronnyJr_21, Brownie5_32, Bruin_26, Brujita_21, Buck_25, Budgie_28, BugsBunny_24, Butterscotch_30, CREW_27, Cactus_27, Calamitous_32, CallaLilly_27, Calm_20, Cambiare_23, Candle_30, Capricorn_27, CaseJules_27, Catdawg_58, Caterpie_28, Causa_36, Cborch11_30, Cerasum_19, CheetoDust_27, Chill_31, ChosenOne_25, ChotaBhai_26, Chris_26, CicholasNage_20, Cjw1_26, Clifton_18, Clipper_27, Cloudyecho_22, Coffee_32, Command613_27, Contagion_25, Cookies_26, Corndog_61, Cornie_20, Cosmo_43, CrimD_27, Crumble_18, CrystalP_26, Czystczon1_27, D12_24, Daikon_24, Dalmuri_27, Damien_29, DanSyl44_29, DartGoblin_27, Deby_27, Delton_30, Devera_27, DirkDirk_20, DoctorDiddles_26, Dole_27, DrDrey_27, DrHayes_27, DrLupo_38, Dumbo_26, Durfee_27, Dusk_25, Dylan_58, Eaglehorse_32, Easy2Say_28, Efra2_27, Elite2014_25, Elph10_27, Emerson_27, Emmina_27, Enceladus_20, EniyanLRS_40, Eponine_28, Erk16_30, Eureka_26, FairyPath_26, Familton_59, Faze9_32, Filch_27, FireRed_26, Firecracker_59, FlagStaff_22, Flypotenuse_24, FoghornLeghorn_25, ForDig_26, FoulBall_58, Fowlmouth_24, FrenchFry_32, Funsized_34, Gage_28, Gaia_21, Ganymede_28, Gator_24, Gemini_29, Geraldini_27, Giuseppe_30, Glass_32, Glexan_24, GodPhather_25, GodSpeed_23, Godines_32, Goku_26, GoldenSpark_28, Goldilocks_27, GooberAzure_28, Greep_27, Guanica15_27, Gumball_29, Halena_20,

HanKaySha_27, Harella_25, Hawkeye_32, Hedgerow_32, HedwigODU_27, Helpful_31, Henry_26, Highbury_27, Holeinone_32, Holt_27, Homura_27, Hoonter_28, Hopey_28, Hosp_024, HufflyPuff_25, Hyperbowlee_27, IHOP_26, Icee_25, Idergollasper_58, Illumine_27, Imara_56, Inca_25, Indlulamithi_27, Inky_27, Island3_21, ItsyBitsy1_32, JAWS_27, JacoRen57_20, JangDynasty_58, Jarvi_27, Jayhawk_27, JeTaime_28, Jeckyll_27, Jennelsea_18, Jeon_24, JoeDirt_20, JohnLord_29, Jolie1_026, Jolie2_22, Joy99_27, JustASigh_21, Kaleb_32, KandZ_30, Kanye_28, KayaCho_26, Kheth_32, KiSi_26, Kimchi_28, KingPhillip3_58, Koella_18, Kolhan_32, Konstantine_34, Kostya_26, Krili_57, Kumao_30, Lars_32, LastJedi_18, LaterM_27, LeBron_20, LeMond_26, Lemuria_23, Lephleur_32, LiMcDreamy_27, LilSmirk_32, Lilac_28, Lilizi_28, Lilpickle_25, LindNT_27, LittleMinkey_35, Liveloughbron_26, LizLemon_32, Llorens_27, LunaStella_20, Lunahalos_27, MAckerman_20, MISSy_25, MOOREtheMARYer_23, MPfalcon_25, MacKat_27, MadKillah_59, MadamMonkfish_26, Manda_27, Mao1_26, MarkPhew_27, Marshawn_28, Marshmallow_26, MaryV_43, Mask_27, MasterPo_32, Maxxinista_27, MeaningOfLife_27, Megatron06_31, Megsy_27, Mercurio_24, Mindy_26, Miniwave_26, Misfit_26, Moldemort_27, MollyToe_26, MontyDev_30, Mopey_30, Mori_58, Mosby_25, MrMiyagi_24, Murai_59, Murica_25, Murphy_27, Murucutumbu_27, Mynx_27, Myrale_26, Nala_26, Nebkiss_22, NelitzaMV_26, Nibb_26, NiebruSaylor_57, Nilo_31, Nimrod_26, Nish23_30, NoShow_21, NoSleep_27, NonchalantPear_26, Nova_30, NovoPizza_23, Oaker_29, OhShagHennessy_20, Opia_32, OrionPax_27, Oscar_26, PBI1_30, PLOT_31, PR_24, Pace1224_22, PaddyBaddy_27, Padfoot_27, Padpat_27, PaintedDog_20, Palpatine_26, Paperbeatsrock_28, Papyrus_30, Pat3_25, Peel_27, Penelope2018_30, Petra64142_28, Phaja_26, Phalaborwa_30, Phantasmagoria_32, Pharsalus_27, PhatBacter_26, Phaux_25, Phrann_20, Phreeze_29, Phrux_26, Piatt_27, Pinnie_23, Pippy_18, Pisa1_26, Pisa4_26, Pokerus_26, Policronamos_26, Poochiewood_20, Porky_26, Prager_30, PrinceCharming_32, Prithvi_27, Ptowny_26, Puissant_30, Pumpkin_28, Pygmy_20, Quallification_27, QuincyRose_26, Qyrzula_30, Rakim_27, Ramen_27, Rapunzel97_27, Raymond7_20, Renaud18_20, Rhinoforte_32, Rimmer_25, Rinkes_33, Riparian_30, RiverMonster_26, Rope_30, Rose5_20, Rosebush_32, Rosmarinus_27, Ryadel_62, Sabella_32, Saints25_27, SamScheppers_26, SamuelLPlaqson_27, Sarma624_19, Sassay_25, Scarlett_26, SchoolBus_58, Schuy_59, Sejanus_27, Send513_30, ShamWow_26, ShereKhan_28, ShiaSurprise_27, Shida_58, Shipwreck_20, SilverChicken_24, Silverleaf_20, Simpliphy_27, SirDuracell_25, SirHarley_29, SirPhilip_26, Slimphazie_27, Smooch_61, SophKB_26, Sotrice96_26, Spock_27, StAugustine_34, Stank_29, Stargaze_22, Stark_27, StellaBean_26, Stinson_28, StolenFromERC_28, StormChicken_26, Sulley_27, SuperheroCarly_30, TA17A_33, TBrady12_28, Tachez_27, TaiwanKao_28, Taquito_26, Tarkin_28, TeamEdward_26, TeardropMSU_25, Teaspoon_27, TelAviv_55, Terminus_26, ThetaBob_20, Thimble_26, Thoth_30, Thresher_27, Thumb_29, Tinciduntsum_33, TiniBug_27, Tiri_27, Tomaszewski_25, Topper_27, Toron_20, Toto_26, Traaww1_24, Tres_32, TreyKay_27, Troll4_30, TruffulaTree_27, Tuco_27, Twitch_27, Tyson_20, UPIE_20, Ukulele_26, Urkel_27, Vagabond_58, Veliki_27, Velveteen_19, Vic9_00032, Visconti_30, Vorrrps_58, WaldoWhy_31, Wamburgxpress_20, WeirDo19_22, Weiss13_30, West99_32, Wiggin_29, Wildcat_43, Wildflower_58, Willez_25, Winget_59, Wogge42_57, Wyatt2_20, Xandras_28, Xavia_21, YangYin_22, YassJohnny_27, Yelo_30, Youngblood_26, YoureAdopted_26, YoyoKar_56, YungJamal_63, Yunkel11_27, Zabiza_27, Zakhe101_58, Zaria_20, Zavalá_27, Zebo_58, Zenon_31, xkcd_27,

Summary by start number:

Start 1:

- Found in 1 of 739 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 671
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Indlulamithi_27 (AC),

Start 2:

- Found in 10 of 739 (1.4%) of genes in pham
- Manual Annotations of this start: 9 of 671
- Called 90.0% of time when present
- Phage (with cluster) where this start called: Candle_30 (R), Nilo_31 (R), Papyrus_30 (R), Riparian_30 (R), Rope_30 (R), Send513_30 (R), Weiss13_30 (R), Yelo_30 (R), Zenon_31 (R),

Start 3:

- Found in 2 of 739 (0.3%) of genes in pham
- Manual Annotations of this start: 2 of 671
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fowlmouth_24 (AC), MrMiyagi_24 (AC),

Start 5:

- Found in 10 of 739 (1.4%) of genes in pham
- Manual Annotations of this start: 1 of 671
- Called 10.0% of time when present
- Phage (with cluster) where this start called: MontyDev_30 (R),

Start 14:

- Found in 2 of 739 (0.3%) of genes in pham
- Manual Annotations of this start: 2 of 671
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Barnyard_36 (H2), DrLupo_38 (H2),

Start 32:

- Found in 1 of 739 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 671
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hawkeye_32 (D2),

Start 36:

- Found in 11 of 739 (1.5%) of genes in pham
- Manual Annotations of this start: 10 of 671
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beckerton_29 (H1), BobtimousPrime_31 (H1), Cborch11_30 (H1), Damien_29 (H1), Konstantine_34 (H1), Megatron06_31 (H1), Nish23_30 (H1), Oaker_29 (H1), Phreeze_29 (H1), Puissant_30 (H1), Thumb_29 (H1),

Start 45:

- Found in 1 of 739 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 671
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JustASigh_21 (AH),

Start 51:

- Found in 5 of 739 (0.7%) of genes in pham
- Manual Annotations of this start: 2 of 671
- Called 60.0% of time when present
- Phage (with cluster) where this start called: Atcoo_21 (P1), BronnyJr_21 (P1), Xavia_21 (P3),

Start 53:

- Found in 10 of 739 (1.4%) of genes in pham
- Manual Annotations of this start: 9 of 671
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BigPhil_19 (F1), Cerasum_19 (F1), Clifton_18 (F1), Crumble_18 (F1), Jennelsea_18 (F1), Koella_18 (F1), LastJedi_18 (F1), Pippy_18 (F1), Sarma624_19 (F1), Velveteen_19 (F1),

Start 56:

- Found in 2 of 739 (0.3%) of genes in pham
- Manual Annotations of this start: 2 of 671
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Phrann_20 (N), Raymond7_20 (N),

Start 66:

- Found in 3 of 739 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 671
- Called 33.3% of time when present
- Phage (with cluster) where this start called: NovoPizza_23 (Q),

Start 72:

- Found in 4 of 739 (0.5%) of genes in pham
- Manual Annotations of this start: 3 of 671
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DanSyl44_29 (K4), Eponine_28 (K4), SamScheppers_26 (K4), Taquito_26 (K4),

Start 74:

- Found in 5 of 739 (0.7%) of genes in pham
- Manual Annotations of this start: 3 of 671
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Caterpie_28 (AD), JohnLord_29 (AD), Mao1_26 (AD), Mask_27 (AD), Sejanus_27 (AD),

Start 75:

- Found in 37 of 739 (5.0%) of genes in pham
- Manual Annotations of this start: 36 of 671
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Allegro_32 (B2), Arbiter_32 (B2), Ares_32 (B2), Bananafish_32 (B2), Blocker23_32 (B2), Boyle_32 (B2), Brownie5_32 (B2), Calamitous_32 (B2), Coffee_32 (B2), Eaglehorse_32 (B2), Faze9_32 (B2), FrenchFry_32 (B2), Glass_32 (B2), Godines_32 (B2), Hedgerow_32 (B2), Holeinone_32 (B2), ItsyBitsy1_32 (B2), Kaleb_32 (B2), Kheth_32 (B2), Kolhan_32 (B2), Lars_32 (B2), Lephleur_32 (B2), LilSmirk_32 (B2), LizLemon_32 (B2), MasterPo_32 (B2), Opia_32 (B2), Phantasmagoria_32 (B2), PrinceCharming_32

(B2), Qyrzula_30 (B2), Rhinoforte_32 (B2), Rosebush_32 (B2), Sabella_32 (B2), TA17A_33 (B2), Tinciduntolum_33 (B2), Tres_32 (B2), Vic9_00032 (B2), West99_32 (B2),

Start 76:

- Found in 4 of 739 (0.5%) of genes in pham
- Manual Annotations of this start: 4 of 671
- Called 100.0% of time when present
- Phage (with cluster) where this start called: D12_24 (W), GodPhather_25 (W), Jeon_24 (W), PR_24 (W),

Start 79:

- Found in 21 of 739 (2.8%) of genes in pham
- Manual Annotations of this start: 19 of 671
- Called 95.2% of time when present
- Phage (with cluster) where this start called: Acquire49_20 (L1), Appletree2_20 (L1), AvadaKedavra_20 (L1), Calm_20 (L1), CicholasNage_20 (L1), DirkDirk_20 (L1), Enceladus_20 (L1), Halena_20 (L1), JoeDirt_20 (L1), LeBron_20 (L1), MAckerman_20 (L1), OhShagHennessy_20 (L1), Poochiewood_20 (L1), Rose5_20 (L1), Silverleaf_20 (L1), Tyson_20 (L1), UPIE_20 (L1), Wamburggrxpress_20 (L1), Wyatt2_20 (L1), Zaria_20 (L1),

Start 80:

- Found in 7 of 739 (0.9%) of genes in pham
- Manual Annotations of this start: 7 of 671
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Avani_24 (F2), Che9d_24 (F2), Demsculpinboyz_24 (F2), Jabbawokkie_26 (F2), Soul22_24 (F2), Yoshi_24 (F2), Zapner_25 (F2),

Start 82:

- Found in 5 of 739 (0.7%) of genes in pham
- No Manual Annotations of this start.
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Blarby_25 (F),

Start 90:

- Found in 2 of 739 (0.3%) of genes in pham
- Manual Annotations of this start: 2 of 671
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gaia_21 (X), Nebkiss_22 (X),

Start 97:

- Found in 24 of 739 (3.2%) of genes in pham
- Manual Annotations of this start: 9 of 671
- Called 58.3% of time when present
- Phage (with cluster) where this start called: Antsirabe_22 (G5), Avocado_22 (G2), Cambiare_23 (G2), Cloudyecho_22 (G3), FlagStaff_22 (G2), GodSpeed_23 (G2), Jolie2_22 (G4), Lemuria_23 (G4), MOOREtheMARYer_23 (G3), Mercurio_24 (G4), Pace1224_22 (G2), Pinnie_23 (G3), Stargaze_22 (G5), YangYin_22 (G5),

Start 100:

- Found in 270 of 739 (36.5%) of genes in pham

- Manual Annotations of this start: 238 of 671
- Called 96.7% of time when present
- Phage (with cluster) where this start called: Alexphander_20 (F1), Aloeri_19 (F1), AlpineSix_18 (F1), ArcusAngelus_18 (F1), Ardmore_18 (F1), Ariel_36 (J), Aubs_18 (F1), Awesomesauce_19 (F1), BAKA_36 (J), Batiatus_18 (F1), Beakin_19 (F1), Beanstalk_20 (F1), Bipolar_18 (F1), Blexus_18 (F1), BlueCrab_18 (F1), BobaPhett_18 (F1), Bobi_20 (F1), BodEinwohner17_18 (F1), Boomer_19 (F1), BronnyJames_30 (J), Brookers_19 (F1), Brushbloom_19 (F1), Bubbles123_19 (F1), Burwell21_18 (F1), BuzzLyseyear_20 (F1), ByChance_18 (F1), Byougenkin_18 (F1), Cabrinians_18 (F1), CaptainTrips_19 (F1), Che8_18 (F1), Cheesepuff_20 (F1), Chevrolet_18 (F1), ChickenDinner_19 (F1), Chuckly_18 (F1), Clank_18 (F), Coco12_20 (F1), Corium_18 (F1), Cornucopia_19 (F1), Courthouse_36 (J), DLane_18 (F1), DRBy19_18 (F1), DaWorst_20 (F1), DaddyRickover_18 (F1), Daenerys_18 (F1), Dante_18 (F1), DeadP_18 (F1), Deb65_18 (F1), DillTech15_18 (F1), DirtMcgirt_19 (F1), DmpstrDiver_37 (J), DoRead_18 (F1), DocMcStuffins_19 (F1), Donkeykong_18 (F1), Doomphist_18 (F1), Doomslug_20 (F), Dorothy_18 (F1), DosHalletts_19 (F1), DotProduct_18 (F1), Doug_19 (F1), Drago_19 (F1), Duke13_36 (J), Eish_18 (F1), EleanorGeorge_18 (F1), EmiMonkey_18 (F1), Emma_18 (F1), Emmaloid_19 (F1), Empress_19 (F1), Enby_19 (F1), Enzomatic_20 (F1), Eradicator_18 (F1), Estave1_18 (F1), Fancypants_18 (F1), Fastidio_18 (F1), Filuzino_18 (F1), Firehouse51_19 (F1), Flathead_19 (F1), Florinda_18 (F1), Frankie_19 (F1), FreddyB_18 (F1), Fruitloop_18 (F1), GUmbie_18 (F1), Galactic_18 (F1), Gandolph_18 (F1), Geralt_18 (F1), GigiOuiOui_18 (F1), Girafales_19 (F1), Girr_18 (F1), Gorge_18 (F1), Grimmer_19 (F1), Guppsters_19 (F1), Hades_18 (F1), Hamulus_18 (F1), Hannaconda_33 (J), Harley_18 (F1), Hegedechwinu_19 (F1), Hlubikazi_18 (F1), IPilo_18 (F1), IbOuu_18 (F1), Ibhubesi_18 (F1), Inventum_18 (F1), IrishSherpFalk_19 (F1), JalFarm20_20 (F1), James_18 (F1), Jant_18 (F1), Jacob_18 (F1), Jinglebell_17 (F1), Job42_21 (F1), JoeyJr_18 (F1), Juice456_20 (F1), Juniper1_18 (F1), Karhdo_18 (F1), KashFlow_30 (J), Kenuha5_18 (F1), Kersh_19 (F1), Kimberlium_20 (F1), KingJulian_18 (F1), KingMidas_19 (F1), Kingsley_19 (F1), Krakatau_19 (F1), KristaRAM_19 (F1), Latretium_19 (F1), Leozinho_19 (F1), Leperchaun_18 (F1), LilMoolah_18 (F1), LittleE_39 (J), LittleShirley_19 (F1), Lizziana_18 (F1), Llama_18 (F1), Llij_18 (F1), Lorde_19 (F1), Lucia_19 (F1), Lucky2013_36 (J), LunaBlu_19 (F1), MadMen_19 (F1), Madiba_19 (F1), Mahavrat_18 (F1), Mandlovu_18 (F1), Mantra_18 (F1), Maravista_18 (F1), Marker_19 (F1), Martik_18 (F1), Mattes_18 (F1), Medindi_18 (F1), MiaZeal_36 (J), MilleniumForce_19 (F1), Minerva_39 (J), MinionDave_19 (F1), Minnie_19 (F1), Misha28_19 (F1), MisterCuddles_18 (F1), Modragons_18 (F1), MooMoo_18 (singleton), Moonbeam_19 (F1), Mova_19 (F1), Mozy_19 (F1), MulchExplorer_20 (F1), Mutaforma13_18 (F1), Mwanjiwa_18 (F1), NewHope4_19 (F1), Nibley_31 (J), Nichirin_18 (F1), Nimbo_18 (F1), Nitze_19 (F1), Nivrat_18 (F1), NormanBulbieJr_18 (F1), Ochi17_18 (F1), OfUltron_18 (F1), OgoPogo_21 (F1), Oksu_19 (F1), OldBen_18 (F1), OlympiaSaint_18 (F1), Omega_38 (J), Optimus_37 (J), Ovechkin_18 (F1), OwlsT2W_20 (F1), PHappiness_18 (F1), PMC_18 (F1), Pacc40_18 (F1), PatoPoderoso_18 (F1), Peridot_20 (F1), Phalconet_18 (F1), Phanphagia_18 (F1), Phasih_19 (F1), Phatniss_19 (F1), PhesterPhotato_18 (F1), Philus_18 (F1), PhilipPhlop_18 (F1), Piper2020_19 (F1), Plumbus_19 (F1), Poenanya_18 (F1), Polka14_19 (F1), Pollywog_21 (F1), Polo2Bam_20 (F1), PopTart_18 (F1), Porcelain_35 (J), Priscilla_18 (F1), QuickMath_19 (F1), Quico_19 (F1), Radiance_18 (F1), Ramsey_19 (F1), RedBird_18 (F1), Rialto_20 (F1), RitaG_18 (F1), Rita_18 (F1), Rockne_18 (F1), RockyHorror_19 (F1), Royals2015_18 (F1), Ruby_18 (F1), SG4_18 (F1), Saal_18 (F1), Sabbb_19 (F1), Sandalphon_19 (F1), Sassafras_18 (F1), SassyB_18 (F1), Scottish_19 (F1), SeaLumen_19 (F1), Seabastian_18 (F1),

Seagreen_19 (F1), Shaboozey_30 (J), Shauna1_18 (F1), ShiLan_18 (F1), ShowerHandel_18 (F1), ShroomBoi_18 (F1), SiSi_18 (F1), SimranZ1_19 (F1), Slim_19 (F1), Sparkdehlily_18 (F1), Spartacus_19 (F1), Spikelee_19 (F1), Spoonbill_18 (F1), Squint_35 (J), StAnnes_18 (F1), Stap_19 (F1), Starceвич_19 (F1), Strokeseat_18 (F1), SuperGrey_19 (F1), Superphikiman_36 (J), SwagPigglett_18 (F1), TDanisky_18 (F1), Taj_18 (F1), Tchotchke_19 (F1), TootsiePop_19 (F1), Tootsieroll_19 (F1), Topiatin_20 (F1), Totinger_19 (F1), Tweety_18 (F1), UncleRicky_19 (F1), VRedHorse_18 (F1), Veteran_18 (F1), Violac_19 (F1), Vivum_18 (F1), Wachhund_18 (F1), Wanda_39 (J), Wee_19 (F1), Whatsapiecost_18 (F1), Whouxphf_18 (F1), WillSterrel_19 (F1), XFactor_18 (F1), Yorick_18 (F1), Zerg_18 (F1), Zizzle_18 (F1),

Start 102:

- Found in 6 of 739 (0.8%) of genes in pham
- Manual Annotations of this start: 6 of 671
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Azrael100_42 (V), Cosmo_43 (V), EniyanLRS_40 (V), Kumao_30 (singleton), MaryV_43 (V), Wildcat_43 (V),

Start 103:

- Found in 2 of 739 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 671
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Cornie_20 (F5),

Start 105:

- Found in 11 of 739 (1.5%) of genes in pham
- Manual Annotations of this start: 6 of 671
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 39HC_026 (B6), 40BC_026 (B6), BirdsNest_33 (B13), ForDig_26 (B6), Funsized_34 (B9), Hosp_024 (B6), Jolie1_026 (B6), KayaCho_26 (B6), LilMcDreamy_27 (B12), LittleMinkey_35 (B13), Rinkes_33 (B9),

Start 106:

- Found in 3 of 739 (0.4%) of genes in pham
- Manual Annotations of this start: 3 of 671
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LunaStella_20 (F4), Renaud18_20 (F4), ThetaBob_20 (F4),

Start 109:

- Found in 3 of 739 (0.4%) of genes in pham
- Manual Annotations of this start: 2 of 671
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Brujita_21 (I1), Island3_21 (I1), PaintedDog_20 (I1),

Start 114:

- Found in 37 of 739 (5.0%) of genes in pham
- Manual Annotations of this start: 34 of 671
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Alkhayr_58 (O), Ashwin_60 (O), Blessica_59 (O), Bogie_20 (P1), Bora_56 (O), Catdawg_58 (O), Corndog_61 (O), Dylan_58 (O), Familton_59 (O), Firecracker_59 (O), FoulBall_58 (O), Idergollasper_58 (O), Imara_56 (O), JangDynasty_58 (O), KingPhillip3_58 (O), Krili_57 (O), MadKillah_59 (O), Mori_58 (O), Murai_59 (O), NiebruSaylor_57 (O), Pygmy_20 (P1), Ryadel_62 (O), SchoolBus_58 (O), Schuy_59 (O), Shida_58 (O), Shipwreck_20 (P1), Smooch_61 (O), TelAviv_55 (O), Vagabond_58 (O), Vorrps_58 (O), Wildflower_58 (O), Winget_59 (O), Wogge42_57 (O), YoyoKar_56 (O), YungJamal_63 (O), Zakhe101_58 (O), Zebo_58 (O),

Start 125:

- Found in 197 of 739 (26.7%) of genes in pham
- Manual Annotations of this start: 1 of 671
- Called 0.5% of time when present
- Phage (with cluster) where this start called: Melissauren88_18 (F1),

Start 143:

- Found in 16 of 739 (2.2%) of genes in pham
- No Manual Annotations of this start.
- Called 6.2% of time when present
- Phage (with cluster) where this start called: SilverChicken_24 (F2),

Start 148:

- Found in 148 of 739 (20.0%) of genes in pham
- Manual Annotations of this start: 132 of 671
- Called 98.0% of time when present
- Phage (with cluster) where this start called: 244_28 (E), ABCat_25 (E), Adnama_29 (E), Amao_26 (E), AmericanBeauty_28 (E), Argent26_28 (E), Asriel_25 (E), BaboJay_25 (E), BadStone_25 (E), Balomoji_25 (E), Barbarian_25 (E), Bask21_26 (E), Becksu_26 (E), Bench_28 (E), BigBubba_27 (E), BilboSwaggins_26 (E), Bogg_26 (E), Brewer_26 (E), Bruin_26 (E), Buck_25 (E), Budgie_28 (E), BugsBunny_24 (E), Cactus_27 (E), ChosenOne_25 (E), ChotaBhai_26 (E), Cjw1_26 (E), Command613_27 (E), Contagion_25 (E), Cookies_26 (E), CrystalP_26 (E), Czystczon1_27 (E), Daikon_24 (E), DoctorDiddles_26 (E), DrDrey_27 (E), Dumbo_26 (E), Dusk_25 (E), Easy2Say_28 (E), Elite2014_25 (E), Elph10_27 (E), Emmina_27 (E), Eureka_26 (E), FairyPath_26 (E), Filch_27 (E), FireRed_26 (E), Flypotenuse_24 (E), FoghornLeghorn_25 (E), Gage_28 (E), Gator_24 (E), Gemini_29 (E), Glexan_24 (E), Goku_26 (E), GoldenSpark_28 (E), Goldilocks_27 (E), GooberAzure_28 (E), Greep_27 (E), HanKaySha_27 (E), Harella_25 (E), Henry_26 (E), Highbury_27 (E), Holt_27 (E), Hoonter_28 (E), Hopey_28 (E), HuffyPuff_25 (E), IHOP_26 (E), Icee_25 (E), Inca_25 (E), JeTaimie_28 (E), Kanye_28 (E), Kimchi_28 (E), Kostya_26 (E), Lilac_28 (E), Lilizi_28 (E), Lilpickle_25 (E), Liveloughbron_26 (E), MISSy_25 (E), MPhalcon_25 (E), MadamMonkfish_26 (E), Manda_27 (E), Marshmallow_26 (E), Maxxinista_27 (E), Mindy_26 (E), Miniwave_26 (E), Misfit_26 (E), Moldemort_27 (E), MollyToe_26 (E), Mosby_25 (E), Murica_25 (E), Murphy_27 (E), Myrale_26 (E), Nala_26 (E), NelitzaMV_26 (E), Nimrod_26 (E), NoSleep_27 (E), NonchalantPear_26 (E), OrionPax_27 (E), PaddyBaddy_27 (E), Palpatine_26 (E), Paperbeatsrock_28 (E), Pat3_25 (E), Petra64142_28 (E), Phaja_26 (E), Pharsalus_27 (E), PhatBacter_26 (E), Phaux_25 (E), Phrux_26 (E), Policronamos_26 (E), Porky_26 (E), Ptowny_26 (E), Pumpkin_28 (E), Quallification_27 (E), Rakim_27 (E), Rimmer_25 (E), RiverMonster_26 (E), Saints25_27 (E), Sassay_25 (E), ShamWow_26 (E), ShereKhan_28 (E), Simpliphy_27 (E), SirDuracell_25 (E), SophKB_26 (E), Sotrice96_26 (E), Stank_29 (E), Stark_27 (E), StellaBean_26 (E),

StolenFromERC_28 (E), StormChicken_26 (E), TBrady12_28 (E), Tarkin_28 (E), TeamEdward_26 (E), TeardropMSU_25 (E), Teaspoon_27 (E), Terminus_26 (E), Thimble_26 (E), Thresher_27 (E), Tomaszewski_25 (E), Toto_26 (E), Traaww1_24 (E), Tucō_27 (E), Ukulele_26 (E), Wiggin_29 (E), Willez_25 (E), Xandras_28 (E), YassJohnny_27 (E), Youngblood_26 (E), xkcd_27 (E),

Start 151:

- Found in 119 of 739 (16.1%) of genes in pham
- Manual Annotations of this start: 97 of 671
- Called 84.9% of time when present
- Phage (with cluster) where this start called: ActinUp_27 (K1), Adephagia_27 (K1), Adonis_27 (K1), Ageofdapage_27 (K1), AlishaPH_27 (K1), Aminay_25 (K7), Anaya_28 (K1), Angelica_27 (K1), Anma_27 (K1), Apocalypse_27 (K1), Asayake_27 (K1), Atiba_27 (K1), BEEST_27 (K1), BGlluviae_27 (K1), BaghaKamala_27 (K1), BarrelRoll_27 (K1), Beezoo_27 (K1), Bella96_27 (K1), Belladonna_27 (K1), Bern_27 (K1), Blizzard_27 (K1), Boiii_27 (K1), CREW_27 (K1), CallaLilly_27 (K1), Capricorn_27 (K1), CaseJules_27 (K1), CheetoDust_27 (K1), Chris_26 (K1), Clipper_27 (K1), CrimD_27 (K1), Dalmuri_27 (K1), DartGoblin_27 (K1), Deby_27 (K1), Devera_27 (K1), Dole_27 (K1), DrHayes_27 (K1), Durfee_27 (K1), Efra2_27 (K1), Emerson_27 (K1), Ganymede_28 (K1), Geraldini_27 (K1), Guanica15_27 (K1), HedwigODU_27 (K1), Homura_27 (K1), Hyperbowlee_27 (K1), Illumine_27 (K1), Inky_27 (K1), JAWS_27 (K1), Jarvi_27 (K1), Jayhawk_27 (K1), Jeckyll_27 (K1), Joy99_27 (K1), KiSi_26 (K1), LaterM_27 (K1), LeMond_26 (K1), LindNT_27 (K1), Llorens_27 (K1), Lunahalos_27 (K1), MacKat_27 (K1), MarkPheW_27 (K1), Marshawn_28 (K6), MeaningOfLife_27 (K1), Megsy_27 (K1), Murucutumbu_27 (K1), Mynx_27 (K1), Nibb_26 (K1), Oscar_26 (K1), Padfoot_27 (K1), Padpat_27 (K1), Peel_27 (K1), Piatt_27 (K1), Pisa1_26 (K1), Pisa4_26 (K1), Pokerus_26 (K1), Prithvi_27 (K1), QuincyRose_26 (K1), Ramen_27 (K1), Rapunzel97_27 (K1), Rosmarinus_27 (K1), SamuelLPlaqson_27 (K1), Scarlett_26 (K1), ShiaSurprise_27 (K1), SirPhilip_26 (K6), Slimphazie_27 (K1), Spock_27 (K1), Stinson_28 (K1), Sulley_27 (K1), Tachez_27 (K1), TaiwanKao_28 (K1), TiniBug_27 (K1), Tiri_27 (K1), Topper_27 (K1), TreyKay_27 (K1), TruffulaTree_27 (K1), Twitch_27 (K1), Urkel_27 (K1), Veliki_27 (K1), YoureAdopted_26 (K1), Yunkel11_27 (K1), Zabiza_27 (K1), Zavala_27 (K1),

Start 159:

- Found in 4 of 739 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 671
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Boilgate_24 (K8),

Start 184:

- Found in 1 of 739 (0.1%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Toron_20 (F6),

Start 199:

- Found in 1 of 739 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 671
- Called 100.0% of time when present
- Phage (with cluster) where this start called: NoShow_21 (AB),

Start 204:

- Found in 268 of 739 (36.3%) of genes in pham
- No Manual Annotations of this start.
- Called 0.4% of time when present
- Phage (with cluster) where this start called: Gonephishing_34 (J),

Start 291:

- Found in 23 of 739 (3.1%) of genes in pham
- Manual Annotations of this start: 22 of 671
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adjutor_31 (D1), BigMama_28 (D1), Butterscotch_30 (D1), Chill_31 (D1), Delton_30 (D1), Erk16_30 (D1), Giuseppe_30 (D1), Gumball_29 (D1), Helpful_31 (D1), KandZ_30 (D1), Mopey_30 (D1), Nova_30 (D1), PB11_30 (D1), PLOT_31 (D1), Penelope2018_30 (D1), Phalaborwa_30 (D1), Prager_30 (D1), SirHarley_29 (D1), SuperheroCarly_30 (D1), Thoth_30 (D1), Troll4_30 (D1), Visconti_30 (D1), WaldoWhy_31 (D1),

Start 410:

- Found in 1 of 739 (0.1%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Weirido19_22 (AH),

Start 411:

- Found in 1 of 739 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 671
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JacoRen57_20 (AB),

Start 413:

- Found in 2 of 739 (0.3%) of genes in pham
- Manual Annotations of this start: 2 of 671
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Causa_36 (AI), StAugustine_34 (AI),

Summary by clusters:

There are 43 clusters represented in this pham: singleton, V, K1, AB, K7, K6, K4, K8, G5, G4, G3, G2, I1, B13, P3, AC, P1, E, AD, F, AI, AH, J, O, N, Q, R, W, L1, X, F1, F2, F4, F5, F6, H2, H1, B6, B2, B12, D2, B9, D1,

Info for manual annotations of cluster AB:

- Start number 199 was manually annotated 1 time for cluster AB.
- Start number 411 was manually annotated 1 time for cluster AB.

Info for manual annotations of cluster AC:

- Start number 1 was manually annotated 1 time for cluster AC.
- Start number 3 was manually annotated 2 times for cluster AC.

Info for manual annotations of cluster AD:

- Start number 74 was manually annotated 3 times for cluster AD.

Info for manual annotations of cluster AH:

- Start number 45 was manually annotated 1 time for cluster AH.

Info for manual annotations of cluster AI:

- Start number 413 was manually annotated 2 times for cluster AI.

Info for manual annotations of cluster B12:

- Start number 105 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B13:

- Start number 105 was manually annotated 1 time for cluster B13.

Info for manual annotations of cluster B2:

- Start number 75 was manually annotated 36 times for cluster B2.

Info for manual annotations of cluster B6:

- Start number 105 was manually annotated 2 times for cluster B6.

Info for manual annotations of cluster B9:

- Start number 105 was manually annotated 2 times for cluster B9.

Info for manual annotations of cluster D1:

- Start number 291 was manually annotated 22 times for cluster D1.

Info for manual annotations of cluster D2:

- Start number 32 was manually annotated 1 time for cluster D2.

Info for manual annotations of cluster E:

- Start number 148 was manually annotated 132 times for cluster E.

Info for manual annotations of cluster F1:

- Start number 53 was manually annotated 9 times for cluster F1.
- Start number 100 was manually annotated 220 times for cluster F1.
- Start number 125 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster F2:

- Start number 80 was manually annotated 7 times for cluster F2.

Info for manual annotations of cluster F4:

- Start number 106 was manually annotated 3 times for cluster F4.

Info for manual annotations of cluster F5:

- Start number 103 was manually annotated 1 time for cluster F5.

Info for manual annotations of cluster G2:

- Start number 97 was manually annotated 3 times for cluster G2.

Info for manual annotations of cluster G3:

- Start number 97 was manually annotated 2 times for cluster G3.

Info for manual annotations of cluster G4:

- Start number 97 was manually annotated 2 times for cluster G4.

Info for manual annotations of cluster G5:

- Start number 97 was manually annotated 2 times for cluster G5.

Info for manual annotations of cluster H1:

- Start number 36 was manually annotated 10 times for cluster H1.

Info for manual annotations of cluster H2:

- Start number 14 was manually annotated 2 times for cluster H2.

Info for manual annotations of cluster I1:

- Start number 109 was manually annotated 2 times for cluster I1.

Info for manual annotations of cluster J:

- Start number 100 was manually annotated 17 times for cluster J.

Info for manual annotations of cluster K1:

- Start number 151 was manually annotated 94 times for cluster K1.

Info for manual annotations of cluster K4:

- Start number 72 was manually annotated 3 times for cluster K4.

Info for manual annotations of cluster K6:

- Start number 151 was manually annotated 2 times for cluster K6.

Info for manual annotations of cluster K7:

- Start number 151 was manually annotated 1 time for cluster K7.

Info for manual annotations of cluster K8:

- Start number 159 was manually annotated 1 time for cluster K8.

Info for manual annotations of cluster L1:

- Start number 79 was manually annotated 19 times for cluster L1.

Info for manual annotations of cluster N:

- Start number 56 was manually annotated 2 times for cluster N.

Info for manual annotations of cluster O:

- Start number 114 was manually annotated 31 times for cluster O.

Info for manual annotations of cluster P1:

- Start number 51 was manually annotated 1 time for cluster P1.
- Start number 114 was manually annotated 3 times for cluster P1.

Info for manual annotations of cluster P3:

- Start number 51 was manually annotated 1 time for cluster P3.

Info for manual annotations of cluster Q:

- Start number 66 was manually annotated 1 time for cluster Q.

Info for manual annotations of cluster R:

- Start number 2 was manually annotated 9 times for cluster R.
- Start number 5 was manually annotated 1 time for cluster R.

Info for manual annotations of cluster V:

- Start number 102 was manually annotated 5 times for cluster V.

Info for manual annotations of cluster W:

- Start number 76 was manually annotated 4 times for cluster W.

Info for manual annotations of cluster X:

- Start number 90 was manually annotated 2 times for cluster X.

Gene Information:

Gene: 244_28 Start: 22564, Stop: 24960, Start Num: 148

Candidate Starts for 244_28:

(Start: 148 @22564 has 132 MA's), (248, 22741), (259, 22762), (342, 22909), (391, 23083), (404, 23116), (420, 23152), (479, 23245), (501, 23305), (508, 23323), (552, 23455), (566, 23500), (598, 23632), (610, 23677), (630, 23737), (672, 23851), (677, 23872), (688, 23911), (691, 23932), (695, 23947), (732, 24097), (734, 24103), (737, 24121), (752, 24175), (780, 24259), (807, 24352), (871, 24598), (912, 24814), (926, 24898), (933, 24931),

Gene: 39HC_026 Start: 27572, Stop: 30067, Start Num: 105

Candidate Starts for 39HC_026:

(Start: 105 @27572 has 6 MA's), (130, 27629), (157, 27686), (220, 27806), (230, 27824), (259, 27896), (263, 27902), (292, 27956), (309, 27992), (376, 28175), (389, 28220), (404, 28259), (431, 28307), (434, 28313), (463, 28361), (480, 28391), (489, 28418), (501, 28454), (507, 28472), (516, 28496), (523, 28520), (552, 28604), (563, 28640), (573, 28670), (582, 28706), (587, 28724), (636, 28931), (639, 28943), (642, 28952), (668, 29021), (670, 29027), (671, 29030), (674, 29039), (682, 29069), (691, 29114), (695, 29129), (714, 29210), (719, 29222), (722, 29240), (724, 29246), (726, 29261), (728, 29267), (748, 29348), (779, 29420), (784, 29438), (787, 29453), (833, 29663), (837, 29684), (843, 29702), (909, 29999),

Gene: 40BC_026 Start: 27572, Stop: 30067, Start Num: 105

Candidate Starts for 40BC_026:

(Start: 105 @27572 has 6 MA's), (130, 27629), (157, 27686), (220, 27806), (230, 27824), (259, 27896), (263, 27902), (292, 27956), (309, 27992), (376, 28175), (389, 28220), (404, 28259), (431, 28307), (434, 28313), (463, 28361), (480, 28391), (489, 28418), (501, 28454), (507, 28472), (516, 28496), (523, 28520), (552, 28604), (563, 28640), (573, 28670), (582, 28706), (587, 28724), (636, 28931), (639, 28943), (642, 28952), (668, 29021), (670, 29027), (671, 29030), (674, 29039), (682, 29069), (691, 29114), (695, 29129), (714, 29210), (719, 29222), (722, 29240), (724, 29246), (726, 29261), (728, 29267), (748, 29348), (779, 29420), (784, 29438), (787, 29453), (833, 29663), (837, 29684), (843, 29702), (909, 29999),

Gene: ABCat_25 Start: 22283, Stop: 24679, Start Num: 148

Candidate Starts for ABCat_25:

(Start: 148 @22283 has 132 MA's), (248, 22460), (259, 22481), (342, 22628), (382, 22769), (391, 22802), (404, 22835), (420, 22871), (479, 22964), (501, 23024), (508, 23042), (538, 23123), (598, 23351), (610, 23396), (677, 23591), (679, 23597), (682, 23606), (691, 23651), (695, 23666), (734, 23822), (737, 23840), (740, 23849), (755, 23903), (780, 23978), (781, 23981), (832, 24191), (834, 24203), (871, 24317), (912, 24533), (926, 24617), (931, 24641), (933, 24650),

Gene: Acquire49_20 Start: 18997, Stop: 21678, Start Num: 79

Candidate Starts for Acquire49_20:

(Start: 79 @18997 has 19 MA's), (81, 19003), (164, 19180), (182, 19210), (215, 19273), (249, 19348), (273, 19402), (304, 19462), (306, 19468), (333, 19534), (354, 19597), (363, 19630), (365, 19633), (372, 19657), (380, 19687), (381, 19693), (395, 19741), (404, 19762), (412, 19777), (421, 19798), (437, 19837), (442, 19849), (450, 19867), (477, 19924), (488, 19942), (497, 19972), (506, 19996), (507, 19999), (525, 20044), (542, 20095), (549, 20113), (561, 20167), (579, 20239), (583, 20251), (586, 20260), (592, 20302), (599, 20332), (607, 20368), (611, 20386), (617, 20401), (618, 20407), (628, 20440), (670, 20569), (673, 20578), (691, 20659), (699, 20695), (701, 20701), (726, 20806), (729, 20815), (734, 20830), (737, 20848), (750, 20890), (782, 20986), (784, 20992), (797, 21046), (798, 21052), (801, 21064), (826, 21175), (830, 21205), (831, 21211), (853, 21307), (855, 21313), (860, 21337), (863, 21343), (864, 21349), (877, 21394), (878, 21403), (881, 21412), (893, 21451), (898, 21487), (900, 21496), (901, 21511), (913, 21607), (921, 21658), (922, 21664),

Gene: ActinUp_27 Start: 20881, Stop: 23313, Start Num: 151

Candidate Starts for ActinUp_27:

(Start: 151 @20881 has 97 MA's), (214, 20980), (339, 21241), (346, 21262), (416, 21469), (431, 21502), (439, 21532), (473, 21604), (482, 21628), (498, 21673), (548, 21826), (556, 21871), (561, 21883), (565, 21892), (577, 21943), (619, 22123), (624, 22138), (641, 22207), (646, 22219), (682, 22324), (691, 22363), (692, 22369), (695, 22378), (715, 22459), (726, 22507), (746, 22582), (755, 22618), (785, 22699), (792, 22720), (813, 22813), (833, 22909), (872, 23056), (882, 23098), (894, 23137), (904, 23212),

Gene: Adephagia_27 Start: 20878, Stop: 23310, Start Num: 151

Candidate Starts for Adephagia_27:

(Start: 151 @20878 has 97 MA's), (214, 20977), (339, 21238), (346, 21259), (416, 21466), (431, 21499), (439, 21529), (473, 21601), (482, 21625), (498, 21670), (548, 21823), (556, 21868), (561, 21880), (565, 21889), (577, 21940), (619, 22120), (624, 22135), (641, 22204), (646, 22216), (682, 22321), (691, 22360), (692, 22366), (695, 22375), (715, 22456), (726, 22504), (746, 22579), (755, 22615), (785, 22696), (792, 22717), (813, 22810), (833, 22906), (872, 23053), (882, 23095), (894, 23134), (904, 23209),

Gene: Adjutor_31 Start: 24256, Stop: 26526, Start Num: 291

Candidate Starts for Adjutor_31:

(Start: 291 @24256 has 22 MA's), (340, 24391), (344, 24400), (392, 24574), (394, 24580), (399, 24592), (465, 24745), (474, 24760), (482, 24775), (594, 25156), (595, 25162), (608, 25207), (631, 25294), (694, 25495), (696, 25501), (705, 25549), (710, 25579), (717, 25603), (764, 25792), (775, 25819), (789, 25867), (806, 25939), (816, 25978), (818, 25999), (821, 26014), (825, 26032), (829, 26062), (850, 26146), (907, 26347), (912, 26389), (937, 26515),

Gene: Adnama_29 Start: 22791, Stop: 25187, Start Num: 148

Candidate Starts for Adnama_29:

(Start: 148 @22791 has 132 MA's), (248, 22968), (259, 22989), (342, 23136), (391, 23310), (404, 23343), (420, 23379), (479, 23472), (501, 23532), (508, 23550), (552, 23682), (566, 23727), (598, 23859), (610, 23904), (630, 23964), (672, 24078), (677, 24099), (688, 24138), (691, 24159), (695, 24174), (732, 24324), (734, 24330), (737, 24348), (752, 24402), (780, 24486), (807, 24579), (871, 24825), (912, 25041), (926, 25125), (933, 25158),

Gene: Adonis_27 Start: 20884, Stop: 23316, Start Num: 151

Candidate Starts for Adonis_27:

(Start: 151 @20884 has 97 MA's), (214, 20983), (339, 21244), (346, 21265), (416, 21472), (431, 21505), (439, 21535), (473, 21607), (482, 21631), (498, 21676), (548, 21829), (556, 21874), (561, 21886), (565, 21895), (577, 21946), (619, 22126), (624, 22141), (641, 22210), (670, 22285), (682, 22327), (691, 22366), (692, 22372), (695, 22381), (700, 22402), (715, 22462), (745, 22579), (755,

22621), (783, 22693), (785, 22702), (792, 22723), (808, 22795), (813, 22816), (833, 22912), (848, 22975), (882, 23101), (894, 23140), (912, 23287),

Gene: Ageofdapage_27 Start: 20828, Stop: 23260, Start Num: 151

Candidate Starts for Ageofdapage_27:

(Start: 151 @20828 has 97 MA's), (214, 20927), (216, 20930), (274, 21056), (339, 21188), (346, 21209), (383, 21341), (431, 21449), (473, 21551), (482, 21575), (489, 21593), (498, 21620), (518, 21686), (548, 21773), (561, 21830), (565, 21839), (574, 21875), (577, 21890), (619, 22070), (624, 22085), (646, 22166), (670, 22229), (682, 22271), (691, 22310), (692, 22316), (695, 22325), (715, 22406), (724, 22439), (726, 22454), (727, 22457), (742, 22511), (745, 22523), (783, 22637), (785, 22646), (833, 22856), (882, 23045), (894, 23084), (912, 23231),

Gene: Alexphander_20 Start: 17923, Stop: 20460, Start Num: 100

Candidate Starts for Alexphander_20:

(Start: 100 @17923 has 238 MA's), (113, 17944), (Start: 125 @17965 has 1 MA's), (142, 18004), (188, 18073), (194, 18082), (196, 18085), (204, 18103), (222, 18136), (233, 18151), (307, 18310), (308, 18313), (325, 18343), (330, 18358), (357, 18436), (361, 18457), (362, 18460), (380, 18526), (404, 18601), (407, 18607), (428, 18649), (431, 18655), (432, 18658), (456, 18691), (461, 18697), (479, 18727), (488, 18748), (498, 18778), (501, 18787), (540, 18895), (545, 18907), (548, 18916), (549, 18919), (550, 18928), (551, 18934), (554, 18949), (555, 18952), (561, 18973), (576, 19015), (585, 19048), (621, 19189), (623, 19195), (636, 19249), (637, 19252), (652, 19279), (674, 19339), (677, 19354), (681, 19366), (682, 19369), (697, 19435), (702, 19459), (705, 19480), (707, 19489), (724, 19549), (725, 19552), (734, 19588), (737, 19606), (743, 19618), (745, 19627), (751, 19654), (776, 19723), (780, 19741), (784, 19750), (786, 19762), (797, 19798), (804, 19828), (823, 19909), (833, 19963), (849, 20023), (858, 20065), (880, 20143), (896, 20200), (900, 20224), (908, 20278), (912, 20326), (922, 20368), (925, 20392), (926, 20395),

Gene: AlishaPH_27 Start: 20871, Stop: 23303, Start Num: 151

Candidate Starts for AlishaPH_27:

(Start: 151 @20871 has 97 MA's), (214, 20970), (339, 21231), (346, 21252), (416, 21459), (431, 21492), (439, 21522), (473, 21594), (482, 21618), (548, 21816), (556, 21861), (561, 21873), (565, 21882), (577, 21933), (619, 22113), (624, 22128), (641, 22197), (646, 22209), (670, 22272), (682, 22314), (691, 22353), (692, 22359), (695, 22368), (700, 22389), (715, 22449), (745, 22566), (755, 22608), (783, 22680), (785, 22689), (792, 22710), (808, 22782), (813, 22803), (833, 22899), (872, 23046), (894, 23127), (912, 23274),

Gene: Alkhayr_58 Start: 35810, Stop: 38320, Start Num: 114

Candidate Starts for Alkhayr_58:

(Start: 114 @35810 has 34 MA's), (128, 35843), (163, 35912), (165, 35915), (179, 35939), (196, 35963), (209, 35987), (222, 36020), (310, 36227), (315, 36239), (316, 36242), (368, 36389), (373, 36419), (380, 36443), (392, 36473), (393, 36476), (404, 36503), (416, 36527), (431, 36557), (468, 36614), (481, 36638), (495, 36674), (498, 36686), (507, 36710), (508, 36713), (520, 36755), (554, 36851), (555, 36854), (627, 37109), (677, 37253), (691, 37313), (704, 37385), (705, 37388), (730, 37484), (780, 37658), (786, 37679), (812, 37772), (815, 37784), (833, 37874), (854, 37949), (879, 37994), (917, 38195), (924, 38249), (929, 38264),

Gene: Allegro_32 Start: 29960, Stop: 32680, Start Num: 75

Candidate Starts for Allegro_32:

(Start: 75 @29960 has 36 MA's), (94, 30014), (117, 30053), (138, 30098), (149, 30122), (152, 30125), (166, 30158), (225, 30266), (237, 30287), (238, 30290), (261, 30344), (288, 30404), (299, 30428), (313, 30464), (331, 30512), (336, 30533), (351, 30572), (362, 30611), (369, 30626), (381, 30680), (385, 30692), (392, 30716), (402, 30740), (408, 30752), (415, 30767), (422, 30782), (438, 30824), (446, 30842), (458, 30881), (470, 30905), (539, 31076), (556, 31154), (575, 31214), (583, 31250),

(584, 31253), (599, 31331), (607, 31367), (613, 31391), (640, 31490), (656, 31529), (673, 31583), (699, 31700), (704, 31727), (722, 31790), (724, 31796), (726, 31811), (737, 31853), (765, 31940), (784, 31997), (788, 32015), (795, 32036), (796, 32045), (797, 32051), (798, 32057), (801, 32069), (824, 32174), (827, 32192), (833, 32225), (853, 32312), (860, 32342), (863, 32348), (878, 32408), (900, 32501), (901, 32516), (908, 32558), (923, 32672),

Gene: Aloeri_19 Start: 17271, Stop: 19796, Start Num: 100

Candidate Starts for Aloeri_19:

(Start: 100 @17271 has 238 MA's), (113, 17292), (Start: 125 @17313 has 1 MA's), (142, 17352), (188, 17421), (194, 17430), (196, 17433), (204, 17451), (222, 17484), (233, 17499), (257, 17547), (307, 17658), (308, 17661), (330, 17706), (357, 17784), (362, 17808), (380, 17874), (382, 17883), (404, 17949), (407, 17955), (416, 17973), (428, 17997), (431, 18003), (432, 18006), (456, 18039), (461, 18045), (479, 18075), (488, 18096), (501, 18135), (507, 18150), (509, 18156), (555, 18300), (573, 18351), (597, 18462), (611, 18513), (620, 18537), (652, 18630), (669, 18675), (672, 18684), (677, 18705), (681, 18717), (682, 18720), (691, 18765), (702, 18810), (704, 18828), (705, 18831), (719, 18882), (732, 18933), (734, 18939), (737, 18957), (743, 18969), (745, 18978), (752, 19011), (780, 19092), (799, 19161), (807, 19188), (813, 19215), (825, 19266), (833, 19314), (899, 19557), (912, 19662), (918, 19683), (928, 19737), (932, 19761),

Gene: AlpineSix_18 Start: 17634, Stop: 20171, Start Num: 100

Candidate Starts for AlpineSix_18:

(Start: 100 @17634 has 238 MA's), (113, 17655), (Start: 125 @17676 has 1 MA's), (142, 17715), (188, 17784), (194, 17793), (196, 17796), (204, 17814), (233, 17862), (307, 18021), (308, 18024), (329, 18066), (330, 18069), (357, 18147), (361, 18168), (362, 18171), (380, 18237), (382, 18246), (392, 18282), (404, 18312), (407, 18318), (428, 18360), (431, 18366), (432, 18369), (456, 18402), (461, 18408), (479, 18438), (488, 18459), (498, 18489), (501, 18498), (540, 18606), (545, 18618), (548, 18627), (549, 18630), (550, 18639), (551, 18645), (554, 18660), (555, 18663), (561, 18684), (576, 18726), (585, 18759), (621, 18900), (623, 18906), (636, 18960), (637, 18963), (652, 18990), (677, 19065), (681, 19077), (682, 19080), (697, 19146), (701, 19167), (702, 19170), (705, 19191), (719, 19242), (724, 19260), (725, 19263), (732, 19293), (737, 19317), (743, 19329), (776, 19434), (780, 19452), (784, 19461), (786, 19473), (797, 19509), (804, 19539), (809, 19560), (816, 19584), (823, 19620), (849, 19734), (858, 19776), (880, 19854), (896, 19911), (900, 19935), (908, 19989), (912, 20037), (922, 20079), (925, 20103), (926, 20106),

Gene: Amao_26 Start: 21488, Stop: 23884, Start Num: 148

Candidate Starts for Amao_26:

(Start: 148 @21488 has 132 MA's), (248, 21665), (259, 21686), (342, 21833), (382, 21974), (391, 22007), (420, 22076), (479, 22169), (501, 22229), (508, 22247), (552, 22379), (566, 22424), (598, 22556), (610, 22601), (672, 22775), (677, 22796), (688, 22835), (691, 22856), (695, 22871), (734, 23027), (737, 23045), (752, 23099), (780, 23183), (862, 23507), (912, 23738), (926, 23822), (933, 23855),

Gene: AmericanBeauty_28 Start: 22271, Stop: 24667, Start Num: 148

Candidate Starts for AmericanBeauty_28:

(Start: 148 @22271 has 132 MA's), (248, 22448), (259, 22469), (342, 22616), (382, 22757), (391, 22790), (404, 22823), (420, 22859), (479, 22952), (501, 23012), (508, 23030), (552, 23162), (566, 23207), (598, 23339), (610, 23384), (630, 23444), (672, 23558), (677, 23579), (688, 23618), (691, 23639), (695, 23654), (732, 23804), (734, 23810), (737, 23828), (752, 23882), (780, 23966), (807, 24059), (871, 24305), (912, 24521), (926, 24605), (933, 24638),

Gene: Aminay_25 Start: 21018, Stop: 23477, Start Num: 151

Candidate Starts for Aminay_25:

(Start: 151 @21018 has 97 MA's), (214, 21120), (282, 21264), (312, 21327), (332, 21360), (346, 21402), (414, 21609), (429, 21642), (445, 21693), (473, 21756), (478, 21771), (482, 21780), (483, 21786), (489, 21798), (529, 21921), (533, 21933), (554, 22011), (578, 22104), (582, 22119), (593, 22179), (611, 22251), (623, 22287), (633, 22332), (636, 22341), (651, 22380), (668, 22431), (670, 22437), (719, 22638), (726, 22677), (729, 22686), (792, 22878), (813, 22971), (842, 23109), (886, 23277),

Gene: Anaya_28 Start: 20897, Stop: 23329, Start Num: 151

Candidate Starts for Anaya_28:

(Start: 151 @20897 has 97 MA's), (156, 20906), (214, 20996), (339, 21257), (346, 21278), (431, 21518), (439, 21548), (482, 21644), (498, 21689), (548, 21842), (556, 21887), (561, 21899), (565, 21908), (577, 21959), (619, 22139), (624, 22154), (641, 22223), (682, 22340), (691, 22379), (692, 22385), (695, 22394), (715, 22475), (726, 22523), (727, 22526), (783, 22706), (785, 22715), (792, 22736), (813, 22829), (833, 22925), (848, 22988), (894, 23153), (904, 23228),

Gene: Angelica_27 Start: 20846, Stop: 23278, Start Num: 151

Candidate Starts for Angelica_27:

(Start: 151 @20846 has 97 MA's), (214, 20945), (339, 21206), (346, 21227), (416, 21434), (431, 21467), (439, 21497), (473, 21569), (482, 21593), (548, 21791), (556, 21836), (561, 21848), (565, 21857), (577, 21908), (619, 22088), (624, 22103), (641, 22172), (646, 22184), (670, 22247), (682, 22289), (691, 22328), (692, 22334), (695, 22343), (700, 22364), (715, 22424), (724, 22457), (726, 22472), (727, 22475), (742, 22529), (745, 22541), (783, 22655), (785, 22664), (792, 22685), (808, 22757), (813, 22778), (833, 22874), (894, 23102), (912, 23249),

Gene: Anma_27 Start: 20840, Stop: 23272, Start Num: 151

Candidate Starts for Anma_27:

(141, 20822), (Start: 151 @20840 has 97 MA's), (171, 20888), (214, 20939), (339, 21200), (346, 21221), (429, 21458), (431, 21461), (439, 21491), (440, 21494), (473, 21563), (482, 21587), (483, 21593), (488, 21599), (498, 21632), (548, 21785), (561, 21842), (565, 21851), (577, 21902), (619, 22082), (624, 22097), (641, 22166), (646, 22178), (664, 22214), (670, 22241), (682, 22283), (691, 22322), (692, 22328), (695, 22337), (700, 22358), (715, 22418), (724, 22451), (727, 22469), (745, 22535), (755, 22577), (783, 22649), (785, 22658), (792, 22679), (808, 22751), (833, 22868), (872, 23015), (894, 23096), (904, 23171), (912, 23243),

Gene: Antsirabe_22 Start: 20760, Stop: 23216, Start Num: 97

Candidate Starts for Antsirabe_22:

(Start: 97 @20760 has 9 MA's), (138, 20850), (145, 20865), (147, 20868), (220, 20988), (260, 21063), (341, 21222), (376, 21339), (483, 21561), (502, 21612), (541, 21720), (545, 21729), (552, 21759), (554, 21771), (563, 21795), (570, 21816), (636, 22083), (640, 22098), (642, 22104), (670, 22179), (689, 22251), (691, 22266), (719, 22374), (726, 22413), (768, 22548), (784, 22590), (787, 22605), (792, 22617), (814, 22716), (843, 22854), (882, 23010), (909, 23154), (912, 23196),

Gene: Apocalypse_27 Start: 20849, Stop: 23281, Start Num: 151

Candidate Starts for Apocalypse_27:

(Start: 151 @20849 has 97 MA's), (179, 20906), (214, 20948), (339, 21209), (346, 21230), (416, 21437), (431, 21470), (439, 21500), (473, 21572), (482, 21596), (498, 21641), (548, 21794), (556, 21839), (561, 21851), (565, 21860), (577, 21911), (619, 22091), (624, 22106), (641, 22175), (646, 22187), (670, 22250), (682, 22292), (691, 22331), (692, 22337), (695, 22346), (700, 22367), (715, 22427), (724, 22460), (726, 22475), (727, 22478), (746, 22550), (755, 22586), (783, 22658), (785, 22667), (792, 22688), (808, 22760), (813, 22781), (833, 22877), (894, 23105), (912, 23252),

Gene: Appletree2_20 Start: 18940, Stop: 21621, Start Num: 79

Candidate Starts for Appletree2_20:

(Start: 79 @18940 has 19 MA's), (81, 18946), (164, 19123), (182, 19153), (215, 19216), (249, 19291), (304, 19405), (306, 19411), (333, 19477), (354, 19540), (363, 19573), (365, 19576), (372, 19600), (378, 19624), (380, 19630), (381, 19636), (395, 19684), (404, 19705), (412, 19720), (421, 19741), (437, 19780), (442, 19792), (450, 19810), (488, 19885), (497, 19915), (506, 19939), (507, 19942), (525, 19987), (542, 20038), (549, 20056), (561, 20110), (579, 20182), (583, 20194), (586, 20203), (589, 20221), (592, 20245), (599, 20275), (607, 20311), (617, 20344), (618, 20350), (635, 20416), (662, 20482), (673, 20521), (691, 20602), (699, 20638), (701, 20644), (726, 20749), (729, 20758), (734, 20773), (737, 20791), (750, 20833), (782, 20929), (784, 20935), (797, 20989), (798, 20995), (801, 21007), (826, 21118), (830, 21148), (831, 21154), (853, 21250), (855, 21256), (860, 21280), (863, 21286), (864, 21292), (877, 21337), (878, 21346), (881, 21355), (893, 21394), (898, 21430), (900, 21439), (901, 21454), (913, 21550), (921, 21601), (922, 21607),

Gene: Arbiter_32 Start: 30049, Stop: 32769, Start Num: 75

Candidate Starts for Arbiter_32:

(Start: 75 @30049 has 36 MA's), (94, 30103), (117, 30142), (138, 30187), (149, 30211), (152, 30214), (166, 30247), (225, 30355), (237, 30376), (238, 30379), (261, 30433), (288, 30493), (299, 30517), (313, 30553), (331, 30601), (336, 30622), (351, 30661), (362, 30700), (369, 30715), (381, 30769), (385, 30781), (392, 30805), (402, 30829), (408, 30841), (415, 30856), (422, 30871), (438, 30913), (446, 30931), (458, 30970), (470, 30994), (539, 31165), (556, 31243), (575, 31303), (583, 31339), (584, 31342), (599, 31420), (607, 31456), (613, 31480), (620, 31501), (673, 31672), (675, 31678), (699, 31789), (704, 31816), (722, 31879), (724, 31885), (726, 31900), (737, 31942), (765, 32029), (776, 32056), (784, 32086), (788, 32104), (795, 32125), (796, 32134), (797, 32140), (798, 32146), (801, 32158), (824, 32263), (827, 32281), (833, 32314), (853, 32401), (860, 32431), (863, 32437), (878, 32497), (900, 32590), (901, 32605), (908, 32647), (923, 32761),

Gene: ArcusAngelus_18 Start: 17438, Stop: 19975, Start Num: 100

Candidate Starts for ArcusAngelus_18:

(Start: 100 @17438 has 238 MA's), (113, 17459), (Start: 125 @17480 has 1 MA's), (142, 17519), (188, 17588), (194, 17597), (196, 17600), (204, 17618), (222, 17651), (233, 17666), (307, 17825), (308, 17828), (325, 17858), (330, 17873), (357, 17951), (361, 17972), (362, 17975), (380, 18041), (404, 18116), (407, 18122), (428, 18164), (431, 18170), (432, 18173), (456, 18206), (461, 18212), (479, 18242), (488, 18263), (498, 18293), (501, 18302), (540, 18410), (545, 18422), (548, 18431), (549, 18434), (550, 18443), (551, 18449), (554, 18464), (555, 18467), (561, 18488), (576, 18530), (585, 18563), (621, 18704), (623, 18710), (636, 18764), (637, 18767), (652, 18794), (674, 18854), (677, 18869), (681, 18881), (682, 18884), (697, 18950), (702, 18974), (705, 18995), (707, 19004), (724, 19064), (725, 19067), (734, 19103), (737, 19121), (743, 19133), (745, 19142), (751, 19169), (776, 19238), (780, 19256), (784, 19265), (786, 19277), (797, 19313), (804, 19343), (823, 19424), (833, 19478), (849, 19538), (858, 19580), (880, 19658), (896, 19715), (900, 19739), (908, 19793), (912, 19841), (922, 19883), (925, 19907), (926, 19910),

Gene: Ardmore_18 Start: 17447, Stop: 19984, Start Num: 100

Candidate Starts for Ardmore_18:

(96, 17435), (Start: 100 @17447 has 238 MA's), (113, 17468), (Start: 125 @17489 has 1 MA's), (142, 17528), (188, 17597), (194, 17606), (196, 17609), (204, 17627), (222, 17660), (233, 17675), (257, 17723), (307, 17834), (308, 17837), (325, 17867), (329, 17879), (330, 17882), (357, 17960), (362, 17984), (380, 18050), (392, 18095), (404, 18125), (407, 18131), (416, 18149), (428, 18173), (432, 18182), (456, 18215), (461, 18221), (479, 18251), (495, 18290), (498, 18302), (501, 18311), (507, 18326), (508, 18329), (548, 18440), (549, 18443), (550, 18452), (551, 18458), (554, 18473), (555, 18476), (561, 18497), (573, 18527), (576, 18539), (585, 18572), (610, 18683), (611, 18686), (621, 18713), (623, 18719), (636, 18773), (637, 18776), (677, 18878), (681, 18890), (682, 18893), (697, 18959), (702, 18983), (705, 19004), (707, 19013), (724, 19073), (725, 19076), (734, 19112), (737, 19130), (743, 19142), (745, 19151), (751, 19178), (776, 19247), (780, 19265), (784, 19274), (786, 19286), (797, 19322), (804, 19352), (809, 19373), (823, 19433), (833, 19487), (849, 19547), (858,

19589), (896, 19724), (900, 19748), (908, 19802), (912, 19850), (922, 19892), (925, 19916), (926, 19919),

Gene: Ares_32 Start: 29971, Stop: 32691, Start Num: 75

Candidate Starts for Ares_32:

(Start: 75 @29971 has 36 MA's), (94, 30025), (117, 30064), (138, 30109), (149, 30133), (152, 30136), (166, 30169), (225, 30277), (237, 30298), (238, 30301), (261, 30355), (288, 30415), (299, 30439), (313, 30475), (331, 30523), (336, 30544), (351, 30583), (362, 30622), (369, 30637), (381, 30691), (385, 30703), (392, 30727), (402, 30751), (408, 30763), (415, 30778), (422, 30793), (438, 30835), (446, 30853), (458, 30892), (470, 30916), (539, 31087), (556, 31165), (575, 31225), (583, 31261), (584, 31264), (599, 31342), (607, 31378), (613, 31402), (620, 31423), (673, 31594), (675, 31600), (699, 31711), (704, 31738), (722, 31801), (724, 31807), (726, 31822), (737, 31864), (765, 31951), (776, 31978), (784, 32008), (788, 32026), (795, 32047), (796, 32056), (797, 32062), (798, 32068), (801, 32080), (824, 32185), (827, 32203), (833, 32236), (853, 32323), (860, 32353), (863, 32359), (878, 32419), (900, 32512), (901, 32527), (908, 32569), (923, 32683),

Gene: Argent26_28 Start: 22274, Stop: 24670, Start Num: 148

Candidate Starts for Argent26_28:

(Start: 148 @22274 has 132 MA's), (248, 22451), (259, 22472), (342, 22619), (382, 22760), (391, 22793), (404, 22826), (420, 22862), (479, 22955), (501, 23015), (508, 23033), (552, 23165), (566, 23210), (598, 23342), (610, 23387), (630, 23447), (672, 23561), (677, 23582), (688, 23621), (691, 23642), (695, 23657), (732, 23807), (734, 23813), (737, 23831), (752, 23885), (780, 23969), (807, 24062), (871, 24308), (912, 24524), (926, 24608), (933, 24641),

Gene: Ariel_36 Start: 27338, Stop: 29845, Start Num: 100

Candidate Starts for Ariel_36:

(Start: 100 @27338 has 238 MA's), (204, 27533), (222, 27569), (233, 27584), (285, 27671), (290, 27686), (330, 27761), (335, 27773), (346, 27800), (376, 27905), (389, 27944), (392, 27953), (404, 27977), (407, 27983), (416, 28001), (424, 28019), (432, 28034), (436, 28043), (442, 28052), (456, 28067), (473, 28094), (479, 28103), (495, 28142), (498, 28154), (501, 28163), (531, 28247), (555, 28328), (566, 28358), (567, 28361), (576, 28391), (583, 28418), (586, 28427), (594, 28478), (596, 28487), (598, 28490), (609, 28526), (614, 28547), (626, 28583), (679, 28736), (691, 28790), (702, 28835), (704, 28853), (705, 28856), (716, 28895), (750, 29042), (752, 29051), (777, 29120), (780, 29135), (823, 29300), (840, 29387), (852, 29435), (871, 29486), (890, 29564), (927, 29786), (929, 29789), (933, 29816),

Gene: Asayake_27 Start: 20912, Stop: 23344, Start Num: 151

Candidate Starts for Asayake_27:

(Start: 151 @20912 has 97 MA's), (214, 21011), (339, 21272), (346, 21293), (416, 21500), (431, 21533), (439, 21563), (473, 21635), (482, 21659), (548, 21857), (556, 21902), (561, 21914), (565, 21923), (577, 21974), (619, 22154), (624, 22169), (641, 22238), (646, 22250), (670, 22313), (682, 22355), (691, 22394), (692, 22400), (695, 22409), (700, 22430), (715, 22490), (745, 22607), (755, 22649), (783, 22721), (785, 22730), (792, 22751), (808, 22823), (813, 22844), (833, 22940), (872, 23087), (894, 23168), (912, 23315),

Gene: Ashwin_60 Start: 36580, Stop: 39090, Start Num: 114

Candidate Starts for Ashwin_60:

(Start: 114 @36580 has 34 MA's), (128, 36613), (163, 36682), (165, 36685), (179, 36709), (196, 36733), (209, 36757), (222, 36790), (310, 36997), (315, 37009), (316, 37012), (368, 37159), (373, 37189), (380, 37213), (392, 37243), (393, 37246), (404, 37273), (416, 37297), (431, 37327), (468, 37384), (495, 37444), (498, 37456), (507, 37480), (508, 37483), (520, 37525), (554, 37621), (555, 37624), (627, 37879), (677, 38023), (691, 38083), (704, 38155), (705, 38158), (730, 38254), (780, 38428), (786, 38449), (812, 38542), (815, 38554), (833, 38644), (854, 38719), (879, 38764), (917,

38965), (924, 39019), (929, 39034),

Gene: Asriel_25 Start: 21152, Stop: 23548, Start Num: 148

Candidate Starts for Asriel_25:

(Start: 148 @21152 has 132 MA's), (248, 21329), (259, 21350), (342, 21497), (382, 21638), (391, 21671), (404, 21704), (420, 21740), (479, 21833), (501, 21893), (508, 21911), (538, 21992), (598, 22220), (610, 22265), (677, 22460), (679, 22466), (682, 22475), (691, 22520), (695, 22535), (734, 22691), (737, 22709), (740, 22718), (755, 22772), (780, 22847), (781, 22850), (832, 23060), (834, 23072), (871, 23186), (912, 23402), (926, 23486), (931, 23510), (933, 23519),

Gene: Atcoo_21 Start: 18913, Stop: 21759, Start Num: 51

Candidate Starts for Atcoo_21:

(Start: 51 @18913 has 2 MA's), (91, 19066), (221, 19339), (226, 19351), (236, 19372), (247, 19396), (277, 19471), (300, 19543), (311, 19573), (326, 19609), (347, 19672), (352, 19687), (360, 19714), (362, 19720), (392, 19795), (400, 19819), (403, 19825), (409, 19837), (430, 19879), (433, 19885), (464, 19972), (475, 19993), (488, 20017), (513, 20083), (518, 20104), (526, 20122), (539, 20155), (544, 20179), (546, 20182), (556, 20233), (575, 20293), (583, 20329), (584, 20332), (586, 20338), (599, 20410), (607, 20446), (613, 20470), (640, 20569), (656, 20608), (673, 20662), (690, 20737), (699, 20779), (704, 20806), (722, 20869), (724, 20875), (726, 20890), (737, 20932), (749, 20971), (765, 21019), (776, 21046), (777, 21049), (784, 21076), (788, 21094), (796, 21124), (798, 21136), (801, 21148), (824, 21253), (827, 21271), (833, 21304), (835, 21319), (860, 21421), (863, 21427), (878, 21487), (884, 21505), (900, 21580), (901, 21595), (903, 21601), (908, 21637), (923, 21751),

Gene: Atiba_27 Start: 20841, Stop: 23273, Start Num: 151

Candidate Starts for Atiba_27:

(Start: 151 @20841 has 97 MA's), (214, 20940), (339, 21201), (346, 21222), (416, 21429), (431, 21462), (439, 21492), (473, 21564), (482, 21588), (498, 21633), (548, 21786), (556, 21831), (561, 21843), (565, 21852), (577, 21903), (619, 22083), (624, 22098), (641, 22167), (646, 22179), (682, 22284), (691, 22323), (692, 22329), (695, 22338), (715, 22419), (726, 22467), (746, 22542), (755, 22578), (783, 22650), (785, 22659), (792, 22680), (813, 22773), (833, 22869), (872, 23016), (882, 23058), (894, 23097), (904, 23172),

Gene: Aubs_18 Start: 17557, Stop: 20094, Start Num: 100

Candidate Starts for Aubs_18:

(Start: 100 @17557 has 238 MA's), (113, 17578), (Start: 125 @17599 has 1 MA's), (140, 17635), (142, 17638), (188, 17707), (194, 17716), (196, 17719), (204, 17737), (222, 17770), (233, 17785), (257, 17833), (303, 17938), (307, 17944), (308, 17947), (329, 17989), (330, 17992), (362, 18094), (380, 18160), (392, 18205), (404, 18235), (407, 18241), (416, 18259), (428, 18283), (432, 18292), (456, 18325), (461, 18331), (488, 18382), (495, 18400), (498, 18412), (501, 18421), (507, 18436), (509, 18442), (548, 18550), (549, 18553), (550, 18562), (551, 18568), (554, 18583), (555, 18586), (561, 18607), (573, 18637), (576, 18649), (585, 18682), (598, 18748), (610, 18793), (611, 18796), (621, 18823), (623, 18829), (636, 18883), (637, 18886), (652, 18913), (677, 18988), (681, 19000), (682, 19003), (697, 19069), (702, 19093), (707, 19123), (719, 19165), (724, 19183), (725, 19186), (734, 19222), (737, 19240), (745, 19261), (751, 19288), (776, 19357), (780, 19375), (784, 19384), (786, 19396), (797, 19432), (809, 19483), (814, 19501), (823, 19543), (833, 19597), (858, 19699), (880, 19777), (896, 19834), (900, 19858), (908, 19912), (912, 19960), (925, 20026), (926, 20029),

Gene: AvadaKedavra_20 Start: 19007, Stop: 21688, Start Num: 79

Candidate Starts for AvadaKedavra_20:

(Start: 79 @19007 has 19 MA's), (81, 19013), (164, 19190), (182, 19220), (215, 19283), (249, 19358), (304, 19472), (306, 19478), (333, 19544), (354, 19607), (363, 19640), (365, 19643), (372, 19667), (378, 19691), (380, 19697), (381, 19703), (395, 19751), (404, 19772), (412, 19787), (421, 19808), (437, 19847), (442, 19859), (450, 19877), (477, 19934), (488, 19952), (497, 19982), (506, 20006),

(507, 20009), (525, 20054), (542, 20105), (549, 20123), (561, 20177), (579, 20249), (583, 20261), (586, 20270), (592, 20312), (599, 20342), (607, 20378), (611, 20396), (617, 20411), (618, 20417), (628, 20450), (670, 20579), (673, 20588), (691, 20669), (699, 20705), (701, 20711), (726, 20816), (729, 20825), (734, 20840), (737, 20858), (750, 20900), (782, 20996), (784, 21002), (797, 21056), (798, 21062), (801, 21074), (826, 21185), (830, 21215), (831, 21221), (853, 21317), (855, 21323), (860, 21347), (863, 21353), (864, 21359), (877, 21404), (878, 21413), (881, 21422), (893, 21461), (898, 21497), (900, 21506), (901, 21521), (913, 21617), (921, 21668), (922, 21674),

Gene: Avani_24 Start: 17093, Stop: 19642, Start Num: 80

Candidate Starts for Avani_24:

(77, 17084), (Start: 80 @17093 has 7 MA's), (Start: 100 @17153 has 238 MA's), (119, 17186), (122, 17189), (Start: 159 @17258 has 1 MA's), (177, 17288), (285, 17468), (290, 17483), (308, 17519), (309, 17525), (311, 17528), (327, 17546), (330, 17558), (335, 17570), (345, 17594), (346, 17597), (389, 17741), (392, 17750), (404, 17774), (416, 17798), (428, 17822), (431, 17828), (442, 17849), (449, 17852), (461, 17870), (479, 17900), (490, 17930), (498, 17951), (531, 18044), (538, 18059), (540, 18068), (548, 18089), (549, 18092), (556, 18134), (573, 18176), (574, 18179), (576, 18188), (583, 18215), (586, 18224), (592, 18263), (596, 18284), (598, 18287), (609, 18323), (614, 18344), (636, 18422), (637, 18425), (666, 18479), (681, 18539), (700, 18626), (702, 18632), (705, 18653), (716, 18689), (729, 18743), (732, 18752), (750, 18830), (755, 18848), (769, 18884), (770, 18887), (776, 18905), (777, 18908), (780, 18923), (797, 18980), (799, 18992), (823, 19088), (840, 19175), (852, 19223), (857, 19247), (865, 19274), (871, 19283), (879, 19322), (890, 19361), (896, 19385), (899, 19406), (912, 19502), (918, 19523), (927, 19583), (929, 19586), (933, 19613),

Gene: Avocado_22 Start: 20763, Stop: 23240, Start Num: 97

Candidate Starts for Avocado_22:

(Start: 97 @20763 has 9 MA's), (147, 20871), (198, 20961), (251, 21051), (341, 21228), (376, 21345), (416, 21444), (463, 21525), (483, 21567), (493, 21591), (502, 21618), (503, 21621), (507, 21633), (537, 21714), (552, 21765), (588, 21894), (590, 21906), (621, 22032), (636, 22092), (640, 22107), (642, 22113), (668, 22182), (719, 22383), (784, 22614), (814, 22740), (882, 23034), (896, 23085), (909, 23178),

Gene: Awesomesauce_19 Start: 17268, Stop: 19793, Start Num: 100

Candidate Starts for Awesomesauce_19:

(Start: 100 @17268 has 238 MA's), (113, 17289), (Start: 125 @17310 has 1 MA's), (142, 17349), (188, 17418), (194, 17427), (196, 17430), (204, 17448), (222, 17481), (233, 17496), (257, 17544), (307, 17655), (308, 17658), (330, 17703), (357, 17781), (362, 17805), (380, 17871), (392, 17916), (404, 17946), (407, 17952), (416, 17970), (428, 17994), (432, 18003), (456, 18036), (461, 18042), (479, 18072), (495, 18111), (498, 18123), (501, 18132), (507, 18147), (508, 18150), (555, 18297), (573, 18348), (597, 18459), (611, 18510), (620, 18534), (652, 18627), (669, 18672), (672, 18681), (677, 18702), (681, 18714), (682, 18717), (691, 18762), (702, 18807), (704, 18825), (705, 18828), (719, 18879), (732, 18930), (734, 18936), (737, 18954), (743, 18966), (745, 18975), (752, 19008), (780, 19089), (799, 19158), (807, 19185), (813, 19212), (825, 19263), (833, 19311), (899, 19554), (912, 19659), (918, 19680), (928, 19734), (932, 19758),

Gene: Azrael100_42 Start: 28340, Stop: 30907, Start Num: 102

Candidate Starts for Azrael100_42:

(Start: 102 @28340 has 6 MA's), (132, 28409), (200, 28532), (203, 28538), (204, 28541), (219, 28565), (230, 28586), (302, 28742), (305, 28748), (308, 28754), (320, 28784), (322, 28790), (330, 28811), (334, 28820), (353, 28880), (375, 28958), (407, 29057), (422, 29090), (431, 29105), (432, 29108), (461, 29147), (488, 29198), (495, 29216), (501, 29237), (504, 29243), (514, 29270), (520, 29297), (548, 29366), (553, 29390), (556, 29411), (567, 29432), (571, 29441), (576, 29462), (585, 29495), (586, 29498), (594, 29549), (618, 29627), (624, 29645), (632, 29684), (677, 29801), (689, 29846), (701, 29903), (705, 29927), (707, 29936), (711, 29954), (724, 29999), (732, 30032), (739, 30068),

(794, 30242), (797, 30260), (798, 30266), (813, 30323), (895, 30647), (897, 30665), (905, 30716), (914, 30779), (925, 30854),

Gene: BAKA_36 Start: 29892, Stop: 32447, Start Num: 100

Candidate Starts for BAKA_36:

(Start: 100 @29892 has 238 MA's), (204, 30087), (222, 30123), (233, 30138), (257, 30186), (307, 30297), (308, 30300), (325, 30330), (330, 30345), (357, 30423), (362, 30447), (380, 30513), (392, 30558), (404, 30588), (407, 30594), (416, 30612), (428, 30636), (432, 30645), (456, 30678), (461, 30684), (479, 30714), (495, 30753), (498, 30765), (501, 30774), (507, 30789), (508, 30792), (548, 30903), (549, 30906), (550, 30915), (551, 30921), (554, 30936), (555, 30939), (561, 30960), (573, 30990), (576, 31002), (585, 31035), (598, 31101), (610, 31146), (611, 31149), (621, 31176), (623, 31182), (636, 31236), (637, 31239), (674, 31326), (677, 31341), (681, 31353), (682, 31356), (697, 31422), (705, 31467), (707, 31476), (724, 31536), (725, 31539), (734, 31575), (737, 31593), (743, 31605), (745, 31614), (751, 31641), (776, 31710), (780, 31728), (784, 31737), (786, 31749), (797, 31785), (804, 31815), (809, 31836), (816, 31860), (823, 31896), (833, 31950), (849, 32010), (858, 32052), (896, 32187), (900, 32211), (908, 32265), (912, 32313), (922, 32355), (925, 32379), (926, 32382),

Gene: BEEST_27 Start: 20912, Stop: 23344, Start Num: 151

Candidate Starts for BEEST_27:

(Start: 151 @20912 has 97 MA's), (214, 21011), (339, 21272), (346, 21293), (416, 21500), (431, 21533), (439, 21563), (473, 21635), (482, 21659), (548, 21857), (556, 21902), (561, 21914), (565, 21923), (577, 21974), (619, 22154), (624, 22169), (641, 22238), (646, 22250), (670, 22313), (682, 22355), (691, 22394), (692, 22400), (695, 22409), (700, 22430), (715, 22490), (745, 22607), (755, 22649), (783, 22721), (785, 22730), (792, 22751), (808, 22823), (813, 22844), (833, 22940), (872, 23087), (894, 23168), (912, 23315),

Gene: BGlluviae_27 Start: 20912, Stop: 23344, Start Num: 151

Candidate Starts for BGlluviae_27:

(Start: 151 @20912 has 97 MA's), (214, 21011), (339, 21272), (346, 21293), (416, 21500), (431, 21533), (439, 21563), (473, 21635), (482, 21659), (548, 21857), (556, 21902), (561, 21914), (565, 21923), (577, 21974), (619, 22154), (624, 22169), (641, 22238), (646, 22250), (670, 22313), (682, 22355), (691, 22394), (692, 22400), (695, 22409), (700, 22430), (715, 22490), (745, 22607), (755, 22649), (783, 22721), (785, 22730), (792, 22751), (808, 22823), (813, 22844), (833, 22940), (872, 23087), (894, 23168), (912, 23315),

Gene: BaboJay_25 Start: 21834, Stop: 24230, Start Num: 148

Candidate Starts for BaboJay_25:

(Start: 148 @21834 has 132 MA's), (248, 22011), (259, 22032), (342, 22179), (382, 22320), (391, 22353), (404, 22386), (420, 22422), (479, 22515), (501, 22575), (508, 22593), (552, 22725), (566, 22770), (598, 22902), (610, 22947), (672, 23121), (677, 23142), (688, 23181), (691, 23202), (695, 23217), (732, 23367), (734, 23373), (737, 23391), (752, 23445), (780, 23529), (807, 23622), (871, 23868), (912, 24084), (926, 24168), (933, 24201),

Gene: BadStone_25 Start: 22283, Stop: 24679, Start Num: 148

Candidate Starts for BadStone_25:

(Start: 148 @22283 has 132 MA's), (248, 22460), (259, 22481), (342, 22628), (382, 22769), (391, 22802), (404, 22835), (420, 22871), (479, 22964), (501, 23024), (538, 23123), (598, 23351), (610, 23396), (677, 23591), (679, 23597), (682, 23606), (691, 23651), (695, 23666), (734, 23822), (737, 23840), (740, 23849), (755, 23903), (780, 23978), (781, 23981), (832, 24191), (834, 24203), (871, 24317), (912, 24533), (926, 24617), (931, 24641), (933, 24650),

Gene: BaghaKamala_27 Start: 20841, Stop: 23273, Start Num: 151

Candidate Starts for BaghaKamala_27:

(Start: 151 @20841 has 97 MA's), (214, 20940), (339, 21201), (346, 21222), (416, 21429), (431, 21462), (439, 21492), (473, 21564), (482, 21588), (548, 21786), (556, 21831), (561, 21843), (565, 21852), (577, 21903), (619, 22083), (624, 22098), (641, 22167), (646, 22179), (670, 22242), (682, 22284), (691, 22323), (692, 22329), (695, 22338), (700, 22359), (715, 22419), (745, 22536), (755, 22578), (783, 22650), (785, 22659), (792, 22680), (808, 22752), (813, 22773), (833, 22869), (872, 23016), (894, 23097), (912, 23244),

Gene: Balomoji_25 Start: 22017, Stop: 24413, Start Num: 148

Candidate Starts for Balomoji_25:

(Start: 148 @22017 has 132 MA's), (248, 22194), (259, 22215), (342, 22362), (382, 22503), (391, 22536), (404, 22569), (420, 22605), (479, 22698), (501, 22758), (508, 22776), (538, 22857), (598, 23085), (610, 23130), (677, 23325), (679, 23331), (682, 23340), (691, 23385), (695, 23400), (734, 23556), (737, 23574), (740, 23583), (755, 23637), (780, 23712), (781, 23715), (832, 23925), (834, 23937), (871, 24051), (912, 24267), (926, 24351), (931, 24375), (933, 24384),

Gene: Bananafish_32 Start: 29969, Stop: 32689, Start Num: 75

Candidate Starts for Bananafish_32:

(Start: 75 @29969 has 36 MA's), (94, 30023), (117, 30062), (138, 30107), (149, 30131), (152, 30134), (166, 30167), (225, 30275), (237, 30296), (238, 30299), (261, 30353), (288, 30413), (299, 30437), (313, 30473), (331, 30521), (336, 30542), (351, 30581), (362, 30620), (369, 30635), (381, 30689), (385, 30701), (392, 30725), (402, 30749), (408, 30761), (415, 30776), (422, 30791), (438, 30833), (446, 30851), (458, 30890), (470, 30914), (539, 31085), (556, 31163), (575, 31223), (583, 31259), (584, 31262), (599, 31340), (607, 31376), (613, 31400), (640, 31499), (656, 31538), (673, 31592), (699, 31709), (704, 31736), (722, 31799), (724, 31805), (726, 31820), (737, 31862), (765, 31949), (776, 31976), (784, 32006), (788, 32024), (795, 32045), (796, 32054), (797, 32060), (798, 32066), (801, 32078), (824, 32183), (827, 32201), (833, 32234), (853, 32321), (860, 32351), (863, 32357), (878, 32417), (900, 32510), (901, 32525), (908, 32567), (923, 32681),

Gene: Barbarian_25 Start: 21152, Stop: 23548, Start Num: 148

Candidate Starts for Barbarian_25:

(Start: 148 @21152 has 132 MA's), (248, 21329), (259, 21350), (342, 21497), (382, 21638), (391, 21671), (404, 21704), (420, 21740), (479, 21833), (501, 21893), (508, 21911), (538, 21992), (598, 22220), (610, 22265), (677, 22460), (679, 22466), (682, 22475), (691, 22520), (695, 22535), (734, 22691), (737, 22709), (740, 22718), (755, 22772), (780, 22847), (781, 22850), (832, 23060), (834, 23072), (871, 23186), (912, 23402), (926, 23486), (931, 23510), (933, 23519),

Gene: Barnyard_36 Start: 26772, Stop: 29858, Start Num: 14

Candidate Starts for Barnyard_36:

(11, 26745), (Start: 14 @26772 has 2 MA's), (15, 26775), (22, 26895), (23, 26907), (24, 26925), (25, 26928), (26, 26982), (28, 26991), (33, 27012), (41, 27084), (48, 27120), (Start: 66 @27195 has 1 MA's), (82, 27273), (84, 27282), (86, 27288), (95, 27315), (147, 27432), (168, 27483), (170, 27486), (190, 27516), (202, 27540), (212, 27558), (268, 27690), (274, 27702), (308, 27783), (367, 27933), (389, 28017), (407, 28053), (434, 28107), (435, 28110), (441, 28128), (457, 28146), (476, 28182), (503, 28263), (523, 28323), (531, 28341), (545, 28377), (554, 28419), (559, 28431), (569, 28461), (573, 28473), (575, 28482), (592, 28557), (612, 28644), (642, 28752), (664, 28797), (668, 28818), (682, 28866), (690, 28905), (692, 28917), (698, 28941), (699, 28947), (705, 28977), (719, 29019), (722, 29037), (726, 29058), (733, 29079), (736, 29100), (743, 29118), (745, 29127), (757, 29181), (766, 29190), (784, 29232), (807, 29325), (815, 29358), (838, 29478), (845, 29505), (868, 29598), (882, 29652), (909, 29796),

Gene: BarrelRoll_27 Start: 20864, Stop: 23296, Start Num: 151

Candidate Starts for BarrelRoll_27:

(Start: 151 @20864 has 97 MA's), (214, 20963), (339, 21224), (346, 21245), (416, 21452), (431, 21485), (439, 21515), (473, 21587), (482, 21611), (548, 21809), (556, 21854), (561, 21866), (565, 21875), (577, 21926), (619, 22106), (624, 22121), (641, 22190), (646, 22202), (670, 22265), (682, 22307), (691, 22346), (692, 22352), (695, 22361), (700, 22382), (715, 22442), (745, 22559), (755, 22601), (783, 22673), (785, 22682), (792, 22703), (808, 22775), (813, 22796), (833, 22892), (872, 23039), (894, 23120), (912, 23267),

Gene: Bask21_26 Start: 21463, Stop: 23859, Start Num: 148

Candidate Starts for Bask21_26:

(Start: 148 @21463 has 132 MA's), (248, 21640), (259, 21661), (342, 21808), (382, 21949), (391, 21982), (404, 22015), (420, 22051), (479, 22144), (501, 22204), (508, 22222), (538, 22303), (598, 22531), (610, 22576), (677, 22771), (679, 22777), (682, 22786), (691, 22831), (695, 22846), (734, 23002), (737, 23020), (740, 23029), (780, 23158), (781, 23161), (832, 23371), (834, 23383), (871, 23497), (912, 23713), (926, 23797), (931, 23821), (933, 23830),

Gene: Batiatus_18 Start: 17448, Stop: 19985, Start Num: 100

Candidate Starts for Batiatus_18:

(96, 17436), (Start: 100 @17448 has 238 MA's), (113, 17469), (Start: 125 @17490 has 1 MA's), (142, 17529), (188, 17598), (194, 17607), (196, 17610), (204, 17628), (222, 17661), (233, 17676), (257, 17724), (307, 17835), (308, 17838), (325, 17868), (329, 17880), (330, 17883), (357, 17961), (362, 17985), (380, 18051), (392, 18096), (404, 18126), (407, 18132), (416, 18150), (428, 18174), (432, 18183), (456, 18216), (461, 18222), (479, 18252), (495, 18291), (498, 18303), (501, 18312), (507, 18327), (508, 18330), (548, 18441), (549, 18444), (550, 18453), (551, 18459), (554, 18474), (555, 18477), (561, 18498), (573, 18528), (576, 18540), (585, 18573), (610, 18684), (611, 18687), (621, 18714), (623, 18720), (636, 18774), (637, 18777), (674, 18864), (677, 18879), (681, 18891), (682, 18894), (697, 18960), (702, 18984), (705, 19005), (707, 19014), (724, 19074), (725, 19077), (734, 19113), (737, 19131), (743, 19143), (745, 19152), (751, 19179), (776, 19248), (780, 19266), (784, 19275), (786, 19287), (797, 19323), (804, 19353), (809, 19374), (816, 19398), (823, 19434), (833, 19488), (849, 19548), (858, 19590), (880, 19668), (896, 19725), (900, 19749), (908, 19803), (912, 19851), (922, 19893), (925, 19917), (926, 19920),

Gene: Beakin_19 Start: 17255, Stop: 19786, Start Num: 100

Candidate Starts for Beakin_19:

(96, 17243), (Start: 100 @17255 has 238 MA's), (113, 17276), (Start: 125 @17297 has 1 MA's), (142, 17336), (188, 17405), (194, 17414), (196, 17417), (204, 17435), (222, 17468), (233, 17483), (257, 17525), (307, 17636), (308, 17639), (325, 17669), (330, 17684), (357, 17762), (362, 17786), (380, 17852), (392, 17897), (404, 17927), (407, 17933), (416, 17951), (428, 17975), (432, 17984), (456, 18017), (461, 18023), (479, 18053), (495, 18092), (498, 18104), (501, 18113), (507, 18128), (508, 18131), (548, 18242), (549, 18245), (550, 18254), (551, 18260), (554, 18275), (555, 18278), (561, 18299), (573, 18329), (576, 18341), (585, 18374), (598, 18440), (610, 18485), (611, 18488), (621, 18515), (623, 18521), (636, 18575), (637, 18578), (674, 18665), (677, 18680), (681, 18692), (682, 18695), (697, 18761), (702, 18785), (705, 18806), (707, 18815), (724, 18875), (725, 18878), (734, 18914), (737, 18932), (745, 18953), (751, 18980), (776, 19049), (780, 19067), (784, 19076), (786, 19088), (797, 19124), (809, 19175), (814, 19193), (823, 19235), (833, 19289), (858, 19391), (880, 19469), (896, 19526), (900, 19550), (908, 19604), (912, 19652), (925, 19718), (926, 19721),

Gene: Beanstalk_20 Start: 17400, Stop: 19937, Start Num: 100

Candidate Starts for Beanstalk_20:

(Start: 100 @17400 has 238 MA's), (113, 17421), (Start: 125 @17442 has 1 MA's), (142, 17481), (188, 17550), (194, 17559), (196, 17562), (204, 17580), (222, 17613), (233, 17628), (303, 17781), (308, 17790), (330, 17835), (361, 17934), (362, 17937), (380, 18003), (404, 18078), (407, 18084), (416, 18102), (428, 18126), (432, 18135), (456, 18168), (461, 18174), (479, 18204), (495, 18243), (498, 18255), (501, 18264), (507, 18279), (508, 18282), (548, 18393), (549, 18396), (550, 18405), (551,

18411), (554, 18426), (555, 18429), (561, 18450), (573, 18480), (576, 18492), (585, 18525), (610, 18636), (611, 18639), (621, 18666), (623, 18672), (636, 18726), (637, 18729), (674, 18816), (677, 18831), (681, 18843), (682, 18846), (697, 18912), (702, 18936), (705, 18957), (707, 18966), (724, 19026), (725, 19029), (737, 19083), (743, 19095), (745, 19104), (751, 19131), (773, 19188), (776, 19200), (780, 19218), (784, 19227), (786, 19239), (797, 19275), (804, 19305), (809, 19326), (816, 19350), (823, 19386), (833, 19440), (849, 19500), (858, 19542), (896, 19677), (900, 19701), (908, 19755), (912, 19803), (922, 19845), (925, 19869), (926, 19872),

Gene: Beckerton_29 Start: 26219, Stop: 29062, Start Num: 36

Candidate Starts for Beckerton_29:

(Start: 36 @26219 has 10 MA's), (65, 26351), (67, 26363), (68, 26372), (83, 26441), (85, 26447), (124, 26507), (131, 26528), (154, 26576), (173, 26618), (190, 26642), (208, 26675), (227, 26711), (234, 26723), (280, 26816), (303, 26873), (323, 26912), (366, 27038), (382, 27107), (390, 27137), (407, 27179), (432, 27230), (484, 27320), (495, 27338), (520, 27419), (538, 27458), (545, 27479), (585, 27617), (591, 27656), (609, 27719), (637, 27821), (705, 28046), (805, 28409), (812, 28436), (866, 28679), (877, 28712), (882, 28736), (906, 28856), (919, 28934), (935, 29021), (938, 29036), (939, 29042),

Gene: Becksu_26 Start: 22467, Stop: 24863, Start Num: 148

Candidate Starts for Becksu_26:

(Start: 148 @22467 has 132 MA's), (248, 22644), (259, 22665), (342, 22812), (382, 22953), (391, 22986), (404, 23019), (420, 23055), (479, 23148), (501, 23208), (508, 23226), (552, 23358), (566, 23403), (598, 23535), (610, 23580), (630, 23640), (672, 23754), (677, 23775), (688, 23814), (691, 23835), (695, 23850), (732, 24000), (734, 24006), (737, 24024), (752, 24078), (780, 24162), (807, 24255), (871, 24501), (912, 24717), (926, 24801), (933, 24834),

Gene: Beezoo_27 Start: 20888, Stop: 23320, Start Num: 151

Candidate Starts for Beezoo_27:

(Start: 151 @20888 has 97 MA's), (214, 20987), (339, 21248), (346, 21269), (416, 21476), (431, 21509), (439, 21539), (454, 21578), (473, 21611), (482, 21635), (498, 21680), (548, 21833), (556, 21878), (561, 21890), (565, 21899), (577, 21950), (619, 22130), (624, 22145), (641, 22214), (646, 22226), (670, 22289), (682, 22331), (691, 22370), (692, 22376), (695, 22385), (700, 22406), (715, 22466), (745, 22583), (783, 22697), (785, 22706), (792, 22727), (808, 22799), (813, 22820), (833, 22916), (894, 23144), (912, 23291),

Gene: Bella96_27 Start: 20822, Stop: 23254, Start Num: 151

Candidate Starts for Bella96_27:

(141, 20804), (Start: 151 @20822 has 97 MA's), (171, 20870), (214, 20921), (339, 21182), (346, 21203), (431, 21443), (439, 21473), (440, 21476), (482, 21569), (488, 21581), (498, 21614), (548, 21767), (561, 21824), (565, 21833), (577, 21884), (619, 22064), (624, 22079), (641, 22148), (646, 22160), (664, 22196), (670, 22223), (682, 22265), (691, 22304), (692, 22310), (695, 22319), (700, 22340), (715, 22400), (724, 22433), (726, 22448), (745, 22517), (755, 22559), (783, 22631), (785, 22640), (792, 22661), (808, 22733), (833, 22850), (872, 22997), (894, 23078), (904, 23153), (912, 23225),

Gene: Belladonna_27 Start: 20912, Stop: 23344, Start Num: 151

Candidate Starts for Belladonna_27:

(Start: 151 @20912 has 97 MA's), (214, 21011), (339, 21272), (346, 21293), (416, 21500), (431, 21533), (439, 21563), (473, 21635), (482, 21659), (548, 21857), (556, 21902), (561, 21914), (565, 21923), (577, 21974), (619, 22154), (624, 22169), (641, 22238), (646, 22250), (670, 22313), (682, 22355), (691, 22394), (692, 22400), (695, 22409), (700, 22430), (715, 22490), (745, 22607), (755, 22649), (783, 22721), (785, 22730), (792, 22751), (808, 22823), (813, 22844), (833, 22940), (872, 23087), (894, 23168), (912, 23315),

Gene: Bench_28 Start: 22144, Stop: 24540, Start Num: 148

Candidate Starts for Bench_28:

(Start: 148 @22144 has 132 MA's), (248, 22321), (259, 22342), (342, 22489), (391, 22663), (404, 22696), (420, 22732), (479, 22825), (501, 22885), (508, 22903), (552, 23035), (566, 23080), (598, 23212), (610, 23257), (630, 23317), (672, 23431), (677, 23452), (688, 23491), (691, 23512), (695, 23527), (732, 23677), (734, 23683), (737, 23701), (752, 23755), (780, 23839), (807, 23932), (871, 24178), (912, 24394), (926, 24478), (933, 24511),

Gene: Bern_27 Start: 20832, Stop: 23264, Start Num: 151

Candidate Starts for Bern_27:

(Start: 151 @20832 has 97 MA's), (174, 20883), (182, 20892), (214, 20931), (339, 21192), (346, 21213), (429, 21450), (431, 21453), (439, 21483), (440, 21486), (443, 21498), (473, 21555), (482, 21579), (483, 21585), (498, 21624), (548, 21777), (556, 21822), (561, 21834), (565, 21843), (574, 21879), (577, 21894), (619, 22074), (624, 22089), (641, 22158), (670, 22233), (682, 22275), (691, 22314), (692, 22320), (695, 22329), (700, 22350), (702, 22356), (715, 22410), (724, 22443), (726, 22458), (745, 22527), (746, 22533), (755, 22569), (785, 22650), (799, 22707), (808, 22743), (813, 22764), (833, 22860), (859, 22971), (894, 23088), (904, 23163), (912, 23235),

Gene: BigBubba_27 Start: 22047, Stop: 24443, Start Num: 148

Candidate Starts for BigBubba_27:

(Start: 148 @22047 has 132 MA's), (248, 22224), (259, 22245), (342, 22392), (382, 22533), (391, 22566), (404, 22599), (420, 22635), (479, 22728), (501, 22788), (508, 22806), (552, 22938), (566, 22983), (598, 23115), (610, 23160), (672, 23334), (677, 23355), (688, 23394), (691, 23415), (695, 23430), (734, 23586), (737, 23604), (752, 23658), (780, 23742), (807, 23835), (871, 24081), (912, 24297), (926, 24381), (933, 24414),

Gene: BigMama_28 Start: 24332, Stop: 26602, Start Num: 291

Candidate Starts for BigMama_28:

(Start: 291 @24332 has 22 MA's), (340, 24467), (344, 24476), (392, 24650), (394, 24656), (399, 24668), (465, 24821), (474, 24836), (482, 24851), (594, 25232), (595, 25238), (608, 25283), (631, 25370), (694, 25571), (696, 25577), (705, 25625), (710, 25655), (717, 25679), (764, 25868), (775, 25895), (789, 25943), (806, 26015), (816, 26054), (818, 26075), (821, 26090), (825, 26108), (829, 26138), (850, 26222), (907, 26423), (912, 26465), (937, 26591),

Gene: BigPhil_19 Start: 17226, Stop: 20090, Start Num: 53

Candidate Starts for BigPhil_19:

(Start: 53 @17226 has 9 MA's), (62, 17247), (64, 17268), (69, 17307), (87, 17376), (89, 17385), (91, 17388), (116, 17439), (155, 17529), (181, 17580), (221, 17664), (226, 17676), (236, 17697), (250, 17730), (301, 17877), (326, 17940), (338, 17979), (347, 18003), (352, 18018), (355, 18027), (362, 18054), (370, 18060), (392, 18129), (400, 18150), (403, 18156), (420, 18192), (430, 18210), (464, 18303), (475, 18324), (488, 18348), (513, 18414), (518, 18435), (526, 18453), (539, 18486), (546, 18513), (556, 18564), (572, 18600), (575, 18624), (583, 18660), (586, 18669), (588, 18684), (592, 18711), (599, 18741), (607, 18777), (613, 18801), (640, 18900), (656, 18939), (668, 18978), (675, 18999), (699, 19110), (704, 19137), (712, 19167), (719, 19188), (722, 19200), (724, 19206), (737, 19263), (784, 19407), (788, 19425), (798, 19467), (801, 19479), (833, 19635), (853, 19722), (860, 19752), (863, 19758), (878, 19818), (884, 19836), (900, 19911), (903, 19932), (908, 19968), (923, 20082),

Gene: BilboSwaggins_26 Start: 22284, Stop: 24680, Start Num: 148

Candidate Starts for BilboSwaggins_26:

(Start: 148 @22284 has 132 MA's), (248, 22461), (259, 22482), (342, 22629), (382, 22770), (391, 22803), (404, 22836), (420, 22872), (479, 22965), (501, 23025), (508, 23043), (538, 23124), (598,

23352), (610, 23397), (677, 23592), (679, 23598), (682, 23607), (691, 23652), (695, 23667), (734, 23823), (737, 23841), (740, 23850), (780, 23979), (781, 23982), (832, 24192), (834, 24204), (871, 24318), (912, 24534), (926, 24618), (931, 24642), (933, 24651),

Gene: Bipolar_18 Start: 17398, Stop: 19890, Start Num: 100

Candidate Starts for Bipolar_18:

(98, 17386), (Start: 100 @17398 has 238 MA's), (113, 17419), (Start: 125 @17440 has 1 MA's), (143, 17479), (188, 17548), (194, 17557), (196, 17560), (204, 17578), (222, 17611), (241, 17644), (257, 17677), (290, 17731), (308, 17767), (311, 17776), (327, 17794), (335, 17818), (345, 17842), (376, 17950), (382, 17974), (389, 17989), (392, 17998), (404, 18022), (407, 18028), (416, 18046), (420, 18058), (424, 18064), (428, 18070), (431, 18076), (432, 18079), (436, 18088), (442, 18097), (456, 18112), (479, 18148), (495, 18187), (498, 18199), (501, 18208), (531, 18292), (555, 18373), (566, 18403), (567, 18406), (576, 18436), (583, 18463), (586, 18472), (594, 18523), (596, 18532), (598, 18535), (609, 18571), (614, 18592), (626, 18628), (679, 18781), (691, 18835), (702, 18880), (704, 18898), (705, 18901), (716, 18940), (750, 19087), (752, 19096), (777, 19165), (780, 19180), (823, 19345), (840, 19432), (852, 19480), (871, 19531), (890, 19609), (927, 19831), (929, 19834), (933, 19861),

Gene: BirdsNest_33 Start: 28321, Stop: 30801, Start Num: 105

Candidate Starts for BirdsNest_33:

(Start: 105 @28321 has 6 MA's), (157, 28435), (172, 28468), (386, 28945), (417, 29011), (422, 29023), (434, 29041), (463, 29107), (483, 29149), (517, 29242), (523, 29263), (588, 29476), (627, 29632), (634, 29665), (642, 29692), (666, 29746), (701, 29896), (705, 29920), (719, 29962), (787, 30193), (812, 30292), (895, 30634), (909, 30739), (914, 30784),

Gene: Blarby_25 Start: 17613, Stop: 20210, Start Num: 82

Candidate Starts for Blarby_25:

(78, 17604), (82, 17613), (Start: 103 @17673 has 1 MA's), (119, 17706), (124, 17709), (176, 17808), (257, 17949), (307, 18060), (308, 18063), (325, 18093), (329, 18105), (330, 18108), (362, 18210), (380, 18276), (392, 18321), (404, 18351), (407, 18357), (416, 18375), (428, 18399), (432, 18408), (456, 18441), (461, 18447), (479, 18477), (495, 18516), (498, 18528), (501, 18537), (507, 18552), (508, 18555), (548, 18666), (549, 18669), (550, 18678), (551, 18684), (554, 18699), (555, 18702), (561, 18723), (573, 18753), (576, 18765), (585, 18798), (610, 18909), (611, 18912), (621, 18939), (623, 18945), (636, 18999), (637, 19002), (674, 19089), (677, 19104), (681, 19116), (682, 19119), (697, 19185), (705, 19230), (707, 19239), (724, 19299), (725, 19302), (734, 19338), (737, 19356), (745, 19377), (751, 19404), (776, 19473), (780, 19491), (784, 19500), (786, 19512), (797, 19548), (804, 19578), (809, 19599), (814, 19617), (823, 19659), (833, 19713), (858, 19815), (896, 19950), (900, 19974), (908, 20028), (912, 20076), (922, 20118), (925, 20142), (926, 20145),

Gene: Blessica_59 Start: 36409, Stop: 38919, Start Num: 114

Candidate Starts for Blessica_59:

(Start: 114 @36409 has 34 MA's), (128, 36442), (163, 36511), (165, 36514), (179, 36538), (196, 36562), (209, 36586), (222, 36619), (310, 36826), (315, 36838), (316, 36841), (368, 36988), (373, 37018), (380, 37042), (392, 37072), (393, 37075), (404, 37102), (416, 37126), (431, 37156), (468, 37213), (481, 37237), (495, 37273), (498, 37285), (507, 37309), (508, 37312), (520, 37354), (554, 37450), (555, 37453), (627, 37708), (677, 37852), (691, 37912), (704, 37984), (705, 37987), (730, 38083), (780, 38257), (786, 38278), (812, 38371), (815, 38383), (833, 38473), (854, 38548), (879, 38593), (917, 38794), (924, 38848), (929, 38863),

Gene: Blexus_18 Start: 17586, Stop: 20123, Start Num: 100

Candidate Starts for Blexus_18:

(Start: 100 @17586 has 238 MA's), (113, 17607), (Start: 125 @17628 has 1 MA's), (142, 17667), (188, 17736), (194, 17745), (196, 17748), (204, 17766), (233, 17814), (257, 17862), (307, 17973), (308,

17976), (330, 18021), (357, 18099), (362, 18123), (380, 18189), (404, 18264), (407, 18270), (416, 18288), (428, 18312), (432, 18321), (456, 18354), (461, 18360), (479, 18390), (488, 18411), (498, 18441), (501, 18450), (540, 18558), (545, 18570), (548, 18579), (549, 18582), (551, 18597), (554, 18612), (555, 18615), (561, 18636), (576, 18678), (585, 18711), (610, 18822), (611, 18825), (621, 18852), (623, 18858), (636, 18912), (637, 18915), (652, 18942), (677, 19017), (681, 19029), (682, 19032), (697, 19098), (701, 19119), (702, 19122), (705, 19143), (707, 19152), (719, 19194), (724, 19212), (725, 19215), (732, 19245), (737, 19269), (743, 19281), (745, 19290), (776, 19386), (780, 19404), (784, 19413), (786, 19425), (797, 19461), (804, 19491), (807, 19500), (809, 19512), (823, 19572), (833, 19626), (849, 19686), (858, 19728), (896, 19863), (900, 19887), (908, 19941), (912, 19989), (922, 20031), (925, 20055), (926, 20058),

Gene: Blizzard_27 Start: 20912, Stop: 23344, Start Num: 151

Candidate Starts for Blizzard_27:

(Start: 151 @20912 has 97 MA's), (214, 21011), (339, 21272), (346, 21293), (416, 21500), (431, 21533), (439, 21563), (473, 21635), (482, 21659), (548, 21857), (556, 21902), (561, 21914), (565, 21923), (577, 21974), (619, 22154), (624, 22169), (641, 22238), (646, 22250), (670, 22313), (682, 22355), (691, 22394), (692, 22400), (695, 22409), (700, 22430), (715, 22490), (745, 22607), (755, 22649), (783, 22721), (785, 22730), (792, 22751), (808, 22823), (813, 22844), (833, 22940), (872, 23087), (894, 23168), (912, 23315),

Gene: Blocker23_32 Start: 30090, Stop: 32807, Start Num: 75

Candidate Starts for Blocker23_32:

(Start: 75 @30090 has 36 MA's), (94, 30144), (117, 30183), (138, 30228), (149, 30252), (152, 30255), (166, 30288), (225, 30396), (237, 30417), (238, 30420), (261, 30474), (288, 30534), (299, 30558), (313, 30594), (331, 30642), (336, 30663), (351, 30702), (362, 30741), (369, 30756), (381, 30810), (385, 30822), (392, 30846), (402, 30870), (408, 30882), (415, 30897), (422, 30912), (438, 30954), (446, 30972), (458, 31011), (470, 31035), (539, 31206), (556, 31284), (575, 31344), (583, 31380), (584, 31383), (599, 31461), (607, 31497), (613, 31521), (620, 31542), (673, 31710), (675, 31716), (699, 31827), (704, 31854), (722, 31917), (724, 31923), (726, 31938), (737, 31980), (765, 32067), (776, 32094), (784, 32124), (788, 32142), (795, 32163), (796, 32172), (797, 32178), (798, 32184), (801, 32196), (824, 32301), (827, 32319), (833, 32352), (853, 32439), (860, 32469), (863, 32475), (878, 32535), (900, 32628), (901, 32643), (908, 32685), (923, 32799),

Gene: BlueCrab_18 Start: 17568, Stop: 20105, Start Num: 100

Candidate Starts for BlueCrab_18:

(96, 17556), (Start: 100 @17568 has 238 MA's), (113, 17589), (Start: 125 @17610 has 1 MA's), (142, 17649), (188, 17718), (194, 17727), (196, 17730), (204, 17748), (233, 17796), (257, 17844), (307, 17955), (308, 17958), (330, 18003), (357, 18081), (362, 18105), (380, 18171), (392, 18216), (404, 18246), (407, 18252), (416, 18270), (428, 18294), (432, 18303), (456, 18336), (461, 18342), (479, 18372), (495, 18411), (498, 18423), (501, 18432), (507, 18447), (508, 18450), (548, 18561), (549, 18564), (550, 18573), (551, 18579), (554, 18594), (555, 18597), (561, 18618), (573, 18648), (576, 18660), (585, 18693), (610, 18804), (611, 18807), (621, 18834), (623, 18840), (636, 18894), (637, 18897), (677, 18999), (681, 19011), (682, 19014), (697, 19080), (702, 19104), (705, 19125), (707, 19134), (724, 19194), (725, 19197), (734, 19233), (737, 19251), (745, 19272), (751, 19299), (776, 19368), (780, 19386), (784, 19395), (786, 19407), (797, 19443), (809, 19494), (814, 19512), (823, 19554), (833, 19608), (858, 19710), (896, 19845), (900, 19869), (908, 19923), (918, 19992), (925, 20037), (926, 20040),

Gene: BobaPhett_18 Start: 17397, Stop: 19922, Start Num: 100

Candidate Starts for BobaPhett_18:

(Start: 100 @17397 has 238 MA's), (113, 17418), (123, 17439), (142, 17478), (188, 17547), (194, 17556), (196, 17559), (204, 17577), (233, 17625), (257, 17673), (307, 17784), (308, 17787), (326, 17820), (330, 17832), (357, 17910), (373, 17976), (382, 18009), (399, 18063), (404, 18075), (431,

18129), (432, 18132), (436, 18141), (462, 18174), (486, 18213), (488, 18216), (493, 18231), (495, 18234), (504, 18261), (506, 18267), (507, 18270), (508, 18273), (517, 18300), (522, 18318), (523, 18321), (550, 18396), (554, 18417), (555, 18420), (564, 18447), (573, 18471), (585, 18516), (586, 18519), (594, 18570), (611, 18633), (614, 18642), (622, 18666), (664, 18771), (665, 18774), (677, 18825), (679, 18831), (681, 18837), (682, 18840), (691, 18885), (695, 18900), (701, 18927), (705, 18951), (719, 19002), (724, 19020), (725, 19023), (726, 19035), (743, 19089), (780, 19212), (798, 19275), (814, 19338), (828, 19413), (885, 19614), (921, 19824), (928, 19863), (929, 19866),

Gene: Bobi_20 Start: 17987, Stop: 20524, Start Num: 100

Candidate Starts for Bobi_20:

(96, 17975), (Start: 100 @17987 has 238 MA's), (113, 18008), (Start: 125 @18029 has 1 MA's), (142, 18068), (188, 18137), (194, 18146), (196, 18149), (204, 18167), (222, 18200), (233, 18215), (257, 18263), (307, 18374), (308, 18377), (325, 18407), (329, 18419), (330, 18422), (357, 18500), (362, 18524), (380, 18590), (392, 18635), (404, 18665), (407, 18671), (416, 18689), (428, 18713), (432, 18722), (456, 18755), (461, 18761), (479, 18791), (495, 18830), (498, 18842), (501, 18851), (507, 18866), (508, 18869), (548, 18980), (549, 18983), (550, 18992), (551, 18998), (554, 19013), (555, 19016), (573, 19067), (576, 19079), (585, 19112), (598, 19178), (610, 19223), (611, 19226), (621, 19253), (623, 19259), (636, 19313), (637, 19316), (674, 19403), (677, 19418), (681, 19430), (682, 19433), (697, 19499), (705, 19544), (707, 19553), (724, 19613), (725, 19616), (734, 19652), (737, 19670), (743, 19682), (745, 19691), (751, 19718), (776, 19787), (780, 19805), (784, 19814), (786, 19826), (797, 19862), (804, 19892), (809, 19913), (816, 19937), (823, 19973), (833, 20027), (849, 20087), (858, 20129), (896, 20264), (900, 20288), (908, 20342), (912, 20390), (922, 20432), (925, 20456), (926, 20459),

Gene: BobtimousPrime_31 Start: 26139, Stop: 28982, Start Num: 36

Candidate Starts for BobtimousPrime_31:

(Start: 36 @26139 has 10 MA's), (65, 26271), (67, 26283), (68, 26292), (83, 26361), (124, 26427), (131, 26448), (154, 26496), (173, 26538), (190, 26562), (208, 26595), (227, 26631), (234, 26643), (280, 26736), (303, 26793), (323, 26832), (382, 27027), (390, 27057), (407, 27099), (484, 27240), (495, 27258), (520, 27339), (538, 27378), (545, 27399), (585, 27537), (591, 27576), (637, 27741), (669, 27813), (681, 27855), (685, 27867), (705, 27966), (805, 28329), (866, 28599), (877, 28632), (882, 28656), (906, 28776), (919, 28854), (935, 28941), (938, 28956), (939, 28962),

Gene: BodEinwohner17_18 Start: 17569, Stop: 20106, Start Num: 100

Candidate Starts for BodEinwohner17_18:

(Start: 100 @17569 has 238 MA's), (113, 17590), (Start: 125 @17611 has 1 MA's), (142, 17650), (188, 17719), (194, 17728), (196, 17731), (204, 17749), (233, 17797), (303, 17950), (308, 17959), (330, 18004), (361, 18103), (362, 18106), (380, 18172), (404, 18247), (407, 18253), (416, 18271), (428, 18295), (432, 18304), (456, 18337), (461, 18343), (479, 18373), (488, 18394), (498, 18424), (501, 18433), (507, 18448), (508, 18451), (540, 18541), (545, 18553), (548, 18562), (549, 18565), (551, 18580), (554, 18595), (555, 18598), (561, 18619), (576, 18661), (585, 18694), (610, 18805), (611, 18808), (621, 18835), (623, 18841), (636, 18895), (637, 18898), (652, 18925), (677, 19000), (681, 19012), (682, 19015), (697, 19081), (701, 19102), (702, 19105), (705, 19126), (707, 19135), (719, 19177), (724, 19195), (725, 19198), (732, 19228), (737, 19252), (743, 19264), (745, 19273), (776, 19369), (780, 19387), (784, 19396), (786, 19408), (797, 19444), (804, 19474), (807, 19483), (809, 19495), (823, 19555), (833, 19609), (849, 19669), (858, 19711), (896, 19846), (900, 19870), (908, 19924), (912, 19972), (922, 20014), (925, 20038), (926, 20041),

Gene: Bogg_26 Start: 21184, Stop: 23580, Start Num: 148

Candidate Starts for Bogg_26:

(Start: 148 @21184 has 132 MA's), (248, 21361), (259, 21382), (342, 21529), (382, 21670), (391, 21703), (404, 21736), (420, 21772), (479, 21865), (501, 21925), (508, 21943), (552, 22075), (566, 22120), (598, 22252), (610, 22297), (630, 22357), (672, 22471), (677, 22492), (688, 22531), (691,

22552), (695, 22567), (732, 22717), (734, 22723), (737, 22741), (752, 22795), (780, 22879), (807, 22972), (871, 23218), (912, 23434), (926, 23518), (933, 23551),

Gene: Bogie_20 Start: 18761, Stop: 21265, Start Num: 114

Candidate Starts for Bogie_20:

(Start: 114 @18761 has 34 MA's), (196, 18914), (361, 19319), (368, 19334), (373, 19364), (375, 19370), (380, 19388), (428, 19496), (461, 19547), (508, 19658), (509, 19661), (520, 19700), (538, 19733), (555, 19799), (576, 19859), (583, 19886), (585, 19892), (677, 20198), (691, 20258), (700, 20306), (701, 20309), (704, 20330), (705, 20333), (780, 20594), (814, 20717), (815, 20720), (833, 20810), (847, 20867), (854, 20888), (885, 20948), (919, 21149), (924, 21191),

Gene: Boiiii_27 Start: 20914, Stop: 23346, Start Num: 151

Candidate Starts for Boiiii_27:

(Start: 151 @20914 has 97 MA's), (214, 21013), (339, 21274), (346, 21295), (416, 21502), (431, 21535), (439, 21565), (473, 21637), (482, 21661), (548, 21859), (556, 21904), (561, 21916), (565, 21925), (577, 21976), (619, 22156), (624, 22171), (641, 22240), (646, 22252), (670, 22315), (682, 22357), (691, 22396), (692, 22402), (695, 22411), (700, 22432), (715, 22492), (745, 22609), (755, 22651), (783, 22723), (785, 22732), (792, 22753), (808, 22825), (813, 22846), (833, 22942), (872, 23089), (894, 23170), (912, 23317),

Gene: Boilgate_24 Start: 21197, Stop: 23551, Start Num: 159

Candidate Starts for Boilgate_24:

(Start: 159 @21197 has 1 MA's), (227, 21308), (241, 21338), (281, 21431), (282, 21440), (299, 21482), (303, 21494), (309, 21506), (318, 21518), (353, 21605), (390, 21728), (392, 21734), (462, 21866), (495, 21938), (498, 21950), (500, 21956), (517, 22004), (548, 22088), (560, 22142), (571, 22172), (573, 22181), (574, 22184), (580, 22214), (627, 22391), (652, 22469), (666, 22502), (681, 22562), (682, 22565), (691, 22610), (692, 22616), (695, 22625), (702, 22655), (707, 22685), (709, 22697), (726, 22754), (733, 22775), (747, 22832), (748, 22835), (776, 22910), (784, 22937), (786, 22949), (790, 22955), (793, 22964), (811, 23048), (831, 23144), (833, 23153), (842, 23192), (864, 23276), (879, 23336), (888, 23363), (914, 23522),

Gene: Boomer_19 Start: 17212, Stop: 19749, Start Num: 100

Candidate Starts for Boomer_19:

(Start: 100 @17212 has 238 MA's), (113, 17233), (Start: 125 @17254 has 1 MA's), (142, 17293), (188, 17362), (194, 17371), (196, 17374), (204, 17392), (222, 17425), (233, 17440), (257, 17488), (307, 17599), (308, 17602), (325, 17632), (330, 17647), (357, 17725), (362, 17749), (380, 17815), (392, 17860), (404, 17890), (407, 17896), (416, 17914), (428, 17938), (432, 17947), (456, 17980), (461, 17986), (479, 18016), (488, 18037), (495, 18055), (498, 18067), (501, 18076), (507, 18091), (508, 18094), (536, 18172), (548, 18205), (549, 18208), (550, 18217), (551, 18223), (554, 18238), (555, 18241), (561, 18262), (573, 18292), (576, 18304), (585, 18337), (610, 18448), (611, 18451), (621, 18478), (623, 18484), (636, 18538), (637, 18541), (674, 18628), (677, 18643), (681, 18655), (682, 18658), (697, 18724), (702, 18748), (705, 18769), (707, 18778), (724, 18838), (725, 18841), (732, 18871), (737, 18895), (743, 18907), (745, 18916), (751, 18943), (776, 19012), (780, 19030), (784, 19039), (786, 19051), (797, 19087), (804, 19117), (809, 19138), (816, 19162), (823, 19198), (833, 19252), (849, 19312), (858, 19354), (880, 19432), (896, 19489), (900, 19513), (908, 19567), (912, 19615), (925, 19681), (926, 19684),

Gene: Bora_56 Start: 35766, Stop: 38276, Start Num: 114

Candidate Starts for Bora_56:

(Start: 114 @35766 has 34 MA's), (128, 35799), (163, 35868), (165, 35871), (179, 35895), (196, 35919), (209, 35943), (222, 35976), (289, 36129), (310, 36183), (315, 36195), (316, 36198), (368, 36345), (373, 36375), (380, 36399), (392, 36429), (393, 36432), (404, 36459), (416, 36483), (431, 36513), (468, 36570), (495, 36630), (498, 36642), (507, 36666), (508, 36669), (520, 36711), (554,

36807), (555, 36810), (627, 37065), (677, 37209), (691, 37269), (704, 37341), (705, 37344), (730, 37440), (780, 37614), (784, 37623), (786, 37635), (812, 37728), (815, 37740), (833, 37830), (854, 37905), (879, 37950), (917, 38151), (924, 38205), (929, 38220),

Gene: Boyle_32 Start: 30088, Stop: 32808, Start Num: 75

Candidate Starts for Boyle_32:

(Start: 75 @30088 has 36 MA's), (94, 30142), (117, 30181), (138, 30226), (149, 30250), (152, 30253), (166, 30286), (225, 30394), (237, 30415), (238, 30418), (261, 30472), (288, 30532), (299, 30556), (313, 30592), (331, 30640), (336, 30661), (351, 30700), (362, 30739), (369, 30754), (381, 30808), (385, 30820), (392, 30844), (402, 30868), (408, 30880), (415, 30895), (422, 30910), (438, 30952), (446, 30970), (458, 31009), (470, 31033), (539, 31204), (556, 31282), (575, 31342), (583, 31378), (584, 31381), (599, 31459), (607, 31495), (613, 31519), (620, 31540), (673, 31711), (675, 31717), (699, 31828), (704, 31855), (722, 31918), (724, 31924), (726, 31939), (737, 31981), (765, 32068), (776, 32095), (784, 32125), (788, 32143), (795, 32164), (796, 32173), (797, 32179), (798, 32185), (801, 32197), (824, 32302), (827, 32320), (833, 32353), (853, 32440), (860, 32470), (863, 32476), (878, 32536), (900, 32629), (901, 32644), (908, 32686), (923, 32800),

Gene: Brewer_26 Start: 22532, Stop: 24928, Start Num: 148

Candidate Starts for Brewer_26:

(Start: 148 @22532 has 132 MA's), (248, 22709), (259, 22730), (342, 22877), (382, 23018), (391, 23051), (404, 23084), (420, 23120), (479, 23213), (501, 23273), (508, 23291), (552, 23423), (566, 23468), (598, 23600), (610, 23645), (672, 23819), (677, 23840), (688, 23879), (691, 23900), (695, 23915), (734, 24071), (737, 24089), (752, 24143), (780, 24227), (807, 24320), (871, 24566), (912, 24782), (926, 24866), (933, 24899),

Gene: BronnyJames_30 Start: 25923, Stop: 28418, Start Num: 100

Candidate Starts for BronnyJames_30:

(Start: 100 @25923 has 238 MA's), (204, 26118), (222, 26154), (233, 26169), (285, 26256), (290, 26271), (308, 26307), (309, 26313), (330, 26346), (335, 26358), (389, 26529), (392, 26538), (404, 26562), (431, 26616), (456, 26652), (461, 26658), (479, 26688), (490, 26718), (498, 26739), (501, 26748), (507, 26763), (531, 26832), (555, 26913), (556, 26922), (566, 26943), (567, 26946), (576, 26976), (586, 27012), (594, 27063), (596, 27072), (598, 27075), (606, 27102), (609, 27111), (614, 27132), (636, 27210), (637, 27213), (669, 27285), (679, 27321), (681, 27327), (690, 27369), (691, 27375), (701, 27417), (702, 27420), (705, 27441), (706, 27447), (707, 27450), (716, 27480), (750, 27621), (752, 27630), (755, 27639), (767, 27672), (776, 27696), (777, 27699), (780, 27714), (786, 27735), (797, 27771), (798, 27777), (799, 27783), (805, 27804), (812, 27831), (840, 27966), (857, 28038), (860, 28044), (871, 28062), (896, 28161), (912, 28278), (927, 28359), (929, 28362), (933, 28389),

Gene: BronnyJr_21 Start: 18884, Stop: 21730, Start Num: 51

Candidate Starts for BronnyJr_21:

(Start: 51 @18884 has 2 MA's), (91, 19037), (221, 19310), (226, 19322), (247, 19367), (277, 19442), (300, 19514), (311, 19544), (326, 19580), (347, 19643), (352, 19658), (360, 19685), (362, 19691), (392, 19766), (400, 19790), (403, 19796), (409, 19808), (430, 19850), (433, 19856), (464, 19943), (475, 19964), (488, 19988), (513, 20054), (518, 20075), (526, 20093), (539, 20126), (544, 20150), (546, 20153), (556, 20204), (572, 20240), (575, 20264), (583, 20300), (586, 20309), (588, 20324), (592, 20351), (599, 20381), (607, 20417), (613, 20441), (640, 20540), (656, 20579), (673, 20633), (675, 20639), (699, 20750), (704, 20777), (722, 20840), (724, 20846), (726, 20861), (737, 20903), (765, 20990), (784, 21047), (788, 21065), (798, 21107), (801, 21119), (827, 21242), (833, 21275), (853, 21362), (860, 21392), (863, 21398), (878, 21458), (881, 21467), (884, 21476), (900, 21551), (903, 21572), (908, 21608), (923, 21722),

Gene: Brookers_19 Start: 17254, Stop: 19731, Start Num: 100

Candidate Starts for Brookers_19:

(98, 17242), (Start: 100 @17254 has 238 MA's), (113, 17275), (Start: 125 @17296 has 1 MA's), (143, 17335), (188, 17404), (194, 17413), (196, 17416), (204, 17434), (222, 17467), (233, 17482), (285, 17569), (290, 17584), (308, 17620), (309, 17626), (330, 17659), (335, 17671), (389, 17842), (392, 17851), (404, 17875), (431, 17929), (456, 17965), (461, 17971), (479, 18001), (490, 18031), (498, 18052), (501, 18061), (531, 18145), (551, 18208), (555, 18226), (556, 18235), (566, 18256), (567, 18259), (573, 18277), (576, 18289), (583, 18316), (586, 18325), (594, 18376), (596, 18385), (598, 18388), (606, 18415), (609, 18424), (614, 18445), (636, 18523), (637, 18526), (679, 18634), (681, 18640), (691, 18688), (701, 18730), (702, 18733), (705, 18754), (706, 18760), (707, 18763), (716, 18793), (750, 18934), (755, 18952), (767, 18985), (776, 19009), (777, 19012), (780, 19027), (786, 19048), (797, 19084), (798, 19090), (805, 19117), (812, 19144), (840, 19279), (852, 19327), (857, 19351), (860, 19357), (871, 19375), (896, 19474), (899, 19495), (901, 19513), (912, 19591), (918, 19612), (929, 19675), (931, 19693), (936, 19711),

Gene: Brownie5_32 Start: 30094, Stop: 32814, Start Num: 75

Candidate Starts for Brownie5_32:

(Start: 75 @30094 has 36 MA's), (94, 30148), (117, 30187), (138, 30232), (149, 30256), (152, 30259), (166, 30292), (225, 30400), (237, 30421), (238, 30424), (261, 30478), (288, 30538), (299, 30562), (313, 30598), (331, 30646), (336, 30667), (351, 30706), (362, 30745), (369, 30760), (381, 30814), (385, 30826), (392, 30850), (402, 30874), (408, 30886), (415, 30901), (422, 30916), (438, 30958), (446, 30976), (458, 31015), (470, 31039), (539, 31210), (556, 31288), (575, 31348), (583, 31384), (584, 31387), (599, 31465), (607, 31501), (613, 31525), (620, 31546), (673, 31717), (675, 31723), (699, 31834), (704, 31861), (722, 31924), (724, 31930), (726, 31945), (737, 31987), (765, 32074), (776, 32101), (784, 32131), (788, 32149), (795, 32170), (796, 32179), (797, 32185), (798, 32191), (801, 32203), (824, 32308), (827, 32326), (833, 32359), (853, 32446), (860, 32476), (863, 32482), (878, 32542), (900, 32635), (901, 32650), (908, 32692), (923, 32806),

Gene: Bruin_26 Start: 22307, Stop: 24703, Start Num: 148

Candidate Starts for Bruin_26:

(Start: 148 @22307 has 132 MA's), (248, 22484), (259, 22505), (342, 22652), (382, 22793), (391, 22826), (404, 22859), (420, 22895), (479, 22988), (501, 23048), (508, 23066), (552, 23198), (566, 23243), (598, 23375), (610, 23420), (672, 23594), (677, 23615), (688, 23654), (691, 23675), (695, 23690), (734, 23846), (737, 23864), (752, 23918), (780, 24002), (807, 24095), (871, 24341), (912, 24557), (926, 24641), (933, 24674),

Gene: Brujita_21 Start: 19089, Stop: 21620, Start Num: 109

Candidate Starts for Brujita_21:

(Start: 109 @19089 has 2 MA's), (120, 19113), (168, 19224), (177, 19233), (196, 19260), (262, 19407), (361, 19674), (368, 19689), (373, 19719), (375, 19725), (380, 19743), (428, 19851), (461, 19902), (508, 20013), (509, 20016), (520, 20055), (538, 20088), (555, 20154), (576, 20214), (583, 20241), (585, 20247), (677, 20553), (691, 20613), (700, 20661), (701, 20664), (704, 20685), (705, 20688), (780, 20949), (814, 21072), (815, 21075), (833, 21165), (847, 21222), (854, 21243), (885, 21303), (919, 21504), (924, 21546),

Gene: Brushbloom_19 Start: 17281, Stop: 19818, Start Num: 100

Candidate Starts for Brushbloom_19:

(Start: 100 @17281 has 238 MA's), (113, 17302), (Start: 125 @17323 has 1 MA's), (140, 17359), (142, 17362), (188, 17431), (194, 17440), (196, 17443), (204, 17461), (222, 17494), (233, 17509), (257, 17557), (303, 17662), (307, 17668), (308, 17671), (329, 17713), (330, 17716), (362, 17818), (380, 17884), (392, 17929), (404, 17959), (407, 17965), (416, 17983), (428, 18007), (432, 18016), (456, 18049), (461, 18055), (488, 18106), (495, 18124), (498, 18136), (501, 18145), (507, 18160), (509, 18166), (548, 18274), (550, 18286), (551, 18292), (554, 18307), (555, 18310), (561, 18331), (573, 18361), (576, 18373), (585, 18406), (598, 18472), (610, 18517), (611, 18520), (621, 18547), (623,

18553), (636, 18607), (637, 18610), (652, 18637), (677, 18712), (681, 18724), (682, 18727), (697, 18793), (702, 18817), (707, 18847), (719, 18889), (724, 18907), (725, 18910), (734, 18946), (737, 18964), (745, 18985), (751, 19012), (776, 19081), (780, 19099), (784, 19108), (786, 19120), (797, 19156), (809, 19207), (814, 19225), (823, 19267), (833, 19321), (858, 19423), (880, 19501), (896, 19558), (900, 19582), (908, 19636), (912, 19684), (922, 19726), (925, 19750), (926, 19753),

Gene: Bubbles123_19 Start: 18112, Stop: 20649, Start Num: 100

Candidate Starts for Bubbles123_19:

(Start: 100 @18112 has 238 MA's), (113, 18133), (Start: 125 @18154 has 1 MA's), (142, 18193), (188, 18262), (194, 18271), (196, 18274), (204, 18292), (222, 18325), (233, 18340), (257, 18388), (307, 18499), (308, 18502), (329, 18544), (330, 18547), (362, 18649), (380, 18715), (392, 18760), (404, 18790), (407, 18796), (416, 18814), (428, 18838), (432, 18847), (456, 18880), (461, 18886), (495, 18955), (498, 18967), (501, 18976), (507, 18991), (509, 18997), (548, 19105), (550, 19117), (551, 19123), (554, 19138), (555, 19141), (561, 19162), (573, 19192), (576, 19204), (585, 19237), (598, 19303), (610, 19348), (611, 19351), (621, 19378), (623, 19384), (636, 19438), (637, 19441), (652, 19468), (677, 19543), (681, 19555), (682, 19558), (697, 19624), (702, 19648), (707, 19678), (719, 19720), (724, 19738), (725, 19741), (734, 19777), (737, 19795), (745, 19816), (751, 19843), (776, 19912), (780, 19930), (784, 19939), (786, 19951), (797, 19987), (809, 20038), (816, 20062), (823, 20098), (833, 20152), (858, 20254), (880, 20332), (896, 20389), (900, 20413), (912, 20515), (922, 20557), (925, 20581), (926, 20584),

Gene: Buck_25 Start: 22240, Stop: 24636, Start Num: 148

Candidate Starts for Buck_25:

(Start: 148 @22240 has 132 MA's), (248, 22417), (259, 22438), (342, 22585), (382, 22726), (391, 22759), (404, 22792), (420, 22828), (479, 22921), (501, 22981), (508, 22999), (552, 23131), (566, 23176), (598, 23308), (610, 23353), (630, 23413), (672, 23527), (677, 23548), (688, 23587), (691, 23608), (695, 23623), (732, 23773), (734, 23779), (737, 23797), (752, 23851), (780, 23935), (807, 24028), (871, 24274), (912, 24490), (926, 24574), (933, 24607),

Gene: Budgie_28 Start: 21675, Stop: 24068, Start Num: 148

Candidate Starts for Budgie_28:

(Start: 148 @21675 has 132 MA's), (248, 21852), (259, 21873), (359, 22077), (361, 22083), (390, 22191), (391, 22194), (420, 22263), (495, 22392), (501, 22413), (538, 22512), (543, 22530), (598, 22740), (610, 22785), (677, 22980), (679, 22986), (682, 22995), (691, 23040), (695, 23055), (734, 23211), (737, 23229), (740, 23238), (780, 23367), (781, 23370), (832, 23580), (834, 23592), (889, 23775), (890, 23781), (912, 23922), (926, 24006), (931, 24030), (933, 24039),

Gene: BugsBunny_24 Start: 21873, Stop: 24269, Start Num: 148

Candidate Starts for BugsBunny_24:

(Start: 148 @21873 has 132 MA's), (248, 22050), (259, 22071), (342, 22218), (382, 22359), (391, 22392), (404, 22425), (420, 22461), (479, 22554), (501, 22614), (508, 22632), (552, 22764), (566, 22809), (598, 22941), (610, 22986), (630, 23046), (672, 23160), (677, 23181), (688, 23220), (691, 23241), (695, 23256), (732, 23406), (734, 23412), (737, 23430), (752, 23484), (780, 23568), (807, 23661), (871, 23907), (912, 24123), (926, 24207), (933, 24240),

Gene: Burwell21_18 Start: 17404, Stop: 19956, Start Num: 100

Candidate Starts for Burwell21_18:

(Start: 100 @17404 has 238 MA's), (142, 17485), (188, 17554), (194, 17563), (196, 17566), (204, 17584), (233, 17632), (256, 17677), (307, 17791), (308, 17794), (314, 17806), (326, 17827), (329, 17836), (330, 17839), (346, 17887), (357, 17917), (373, 17983), (382, 18016), (392, 18052), (402, 18076), (431, 18136), (432, 18139), (442, 18157), (486, 18220), (488, 18223), (495, 18241), (501, 18262), (508, 18280), (517, 18307), (523, 18328), (538, 18361), (550, 18403), (551, 18409), (552, 18412), (555, 18427), (564, 18454), (566, 18457), (573, 18478), (576, 18490), (585, 18523), (606,

18616), (636, 18724), (643, 18748), (652, 18754), (663, 18772), (664, 18775), (669, 18799), (677, 18829), (685, 18853), (691, 18889), (692, 18895), (695, 18904), (701, 18931), (713, 18994), (719, 19018), (720, 19033), (732, 19075), (746, 19126), (777, 19222), (780, 19237), (784, 19246), (791, 19270), (807, 19333), (816, 19369), (892, 19675), (900, 19720), (912, 19822),

Gene: Butterscotch_30 Start: 24316, Stop: 26586, Start Num: 291

Candidate Starts for Butterscotch_30:

(Start: 291 @24316 has 22 MA's), (340, 24451), (344, 24460), (392, 24634), (394, 24640), (399, 24652), (465, 24805), (474, 24820), (482, 24835), (594, 25216), (595, 25222), (608, 25267), (631, 25354), (694, 25555), (696, 25561), (705, 25609), (710, 25639), (717, 25663), (764, 25852), (775, 25879), (789, 25927), (806, 25999), (816, 26038), (818, 26059), (821, 26074), (825, 26092), (829, 26122), (850, 26206), (907, 26407), (912, 26449), (937, 26575),

Gene: BuzzLyseyear_20 Start: 17791, Stop: 20328, Start Num: 100

Candidate Starts for BuzzLyseyear_20:

(Start: 100 @17791 has 238 MA's), (113, 17812), (Start: 125 @17833 has 1 MA's), (142, 17872), (188, 17941), (194, 17950), (196, 17953), (204, 17971), (233, 18019), (303, 18172), (308, 18181), (330, 18226), (361, 18325), (362, 18328), (380, 18394), (404, 18469), (407, 18475), (416, 18493), (428, 18517), (431, 18523), (432, 18526), (456, 18559), (461, 18565), (479, 18595), (488, 18616), (498, 18646), (501, 18655), (507, 18670), (508, 18673), (548, 18784), (549, 18787), (550, 18796), (551, 18802), (554, 18817), (555, 18820), (561, 18841), (573, 18871), (576, 18883), (585, 18916), (610, 19027), (611, 19030), (621, 19057), (623, 19063), (636, 19117), (637, 19120), (674, 19207), (677, 19222), (681, 19234), (682, 19237), (697, 19303), (702, 19327), (705, 19348), (707, 19357), (724, 19417), (725, 19420), (734, 19456), (737, 19474), (743, 19486), (745, 19495), (751, 19522), (773, 19579), (776, 19591), (780, 19609), (784, 19618), (786, 19630), (797, 19666), (804, 19696), (807, 19705), (809, 19717), (823, 19777), (833, 19831), (849, 19891), (858, 19933), (896, 20068), (900, 20092), (908, 20146), (912, 20194), (922, 20236), (925, 20260), (926, 20263),

Gene: ByChance_18 Start: 17408, Stop: 19933, Start Num: 100

Candidate Starts for ByChance_18:

(Start: 100 @17408 has 238 MA's), (142, 17489), (188, 17558), (194, 17567), (196, 17570), (204, 17588), (233, 17636), (257, 17684), (307, 17795), (308, 17798), (326, 17831), (330, 17843), (357, 17921), (373, 17987), (382, 18020), (399, 18074), (404, 18086), (431, 18140), (432, 18143), (436, 18152), (462, 18185), (486, 18224), (488, 18227), (493, 18242), (495, 18245), (504, 18272), (506, 18278), (507, 18281), (508, 18284), (517, 18311), (522, 18329), (523, 18332), (550, 18407), (554, 18428), (555, 18431), (564, 18458), (573, 18482), (585, 18527), (586, 18530), (594, 18581), (611, 18644), (614, 18653), (622, 18677), (664, 18782), (665, 18785), (677, 18836), (679, 18842), (681, 18848), (682, 18851), (691, 18896), (695, 18911), (701, 18938), (705, 18962), (719, 19013), (724, 19031), (725, 19034), (726, 19046), (743, 19100), (752, 19142), (798, 19286), (812, 19340), (813, 19346), (814, 19349), (820, 19385), (822, 19388), (825, 19397), (828, 19424), (885, 19625), (912, 19796), (921, 19835), (928, 19874), (929, 19877),

Gene: Byougenkin_18 Start: 17418, Stop: 19949, Start Num: 100

Candidate Starts for Byougenkin_18:

(Start: 100 @17418 has 238 MA's), (Start: 151 @17508 has 97 MA's), (188, 17568), (194, 17577), (196, 17580), (204, 17598), (222, 17631), (233, 17646), (257, 17694), (307, 17805), (308, 17808), (325, 17838), (330, 17853), (357, 17931), (362, 17955), (380, 18021), (392, 18066), (404, 18096), (407, 18102), (416, 18120), (428, 18144), (431, 18150), (432, 18153), (456, 18186), (461, 18192), (495, 18261), (501, 18282), (507, 18297), (508, 18300), (548, 18411), (550, 18423), (551, 18429), (554, 18444), (555, 18447), (561, 18468), (576, 18510), (585, 18543), (610, 18654), (611, 18657), (621, 18684), (623, 18690), (636, 18744), (637, 18747), (674, 18834), (677, 18849), (681, 18861), (682, 18864), (697, 18930), (702, 18954), (705, 18975), (707, 18984), (724, 19044), (725, 19047), (734, 19083), (737, 19101), (743, 19113), (745, 19122), (751, 19149), (776, 19218), (780, 19236),

(784, 19245), (786, 19257), (797, 19293), (804, 19323), (809, 19344), (816, 19368), (823, 19404), (833, 19458), (849, 19518), (858, 19560), (880, 19638), (896, 19695), (900, 19719), (908, 19773), (912, 19821), (922, 19857), (925, 19881), (926, 19884),

Gene: CREW_27 Start: 20912, Stop: 23344, Start Num: 151

Candidate Starts for CREW_27:

(Start: 151 @20912 has 97 MA's), (214, 21011), (339, 21272), (346, 21293), (416, 21500), (431, 21533), (439, 21563), (473, 21635), (482, 21659), (548, 21857), (556, 21902), (561, 21914), (565, 21923), (577, 21974), (619, 22154), (624, 22169), (641, 22238), (646, 22250), (670, 22313), (682, 22355), (691, 22394), (692, 22400), (695, 22409), (700, 22430), (715, 22490), (745, 22607), (755, 22649), (783, 22721), (785, 22730), (792, 22751), (808, 22823), (813, 22844), (833, 22940), (872, 23087), (894, 23168), (912, 23315),

Gene: Cabrinians_18 Start: 17398, Stop: 19950, Start Num: 100

Candidate Starts for Cabrinians_18:

(Start: 100 @17398 has 238 MA's), (142, 17479), (188, 17548), (194, 17557), (196, 17560), (204, 17578), (233, 17626), (256, 17671), (307, 17785), (308, 17788), (314, 17800), (326, 17821), (329, 17830), (330, 17833), (346, 17881), (357, 17911), (373, 17977), (382, 18010), (392, 18046), (402, 18070), (431, 18130), (432, 18133), (442, 18151), (486, 18214), (488, 18217), (495, 18235), (501, 18256), (508, 18274), (517, 18301), (523, 18322), (538, 18355), (550, 18397), (551, 18403), (552, 18406), (555, 18421), (564, 18448), (566, 18451), (573, 18472), (576, 18484), (585, 18517), (606, 18610), (636, 18718), (643, 18742), (652, 18748), (663, 18766), (664, 18769), (669, 18793), (677, 18823), (685, 18847), (691, 18883), (692, 18889), (695, 18898), (701, 18925), (713, 18988), (719, 19012), (720, 19027), (732, 19069), (746, 19120), (777, 19216), (780, 19231), (784, 19240), (791, 19264), (807, 19327), (816, 19363), (892, 19669), (900, 19714), (912, 19816),

Gene: Cactus_27 Start: 21496, Stop: 23892, Start Num: 148

Candidate Starts for Cactus_27:

(Start: 148 @21496 has 132 MA's), (248, 21673), (259, 21694), (342, 21841), (382, 21982), (391, 22015), (404, 22048), (420, 22084), (479, 22177), (501, 22237), (508, 22255), (538, 22336), (598, 22564), (610, 22609), (677, 22804), (679, 22810), (682, 22819), (691, 22864), (695, 22879), (734, 23035), (737, 23053), (740, 23062), (780, 23191), (781, 23194), (832, 23404), (834, 23416), (871, 23530), (912, 23746), (926, 23830), (931, 23854), (933, 23863),

Gene: Calamitous_32 Start: 29974, Stop: 32694, Start Num: 75

Candidate Starts for Calamitous_32:

(Start: 75 @29974 has 36 MA's), (94, 30028), (117, 30067), (138, 30112), (149, 30136), (152, 30139), (166, 30172), (225, 30280), (237, 30301), (238, 30304), (261, 30358), (288, 30418), (299, 30442), (313, 30478), (331, 30526), (336, 30547), (351, 30586), (362, 30625), (369, 30640), (381, 30694), (385, 30706), (392, 30730), (402, 30754), (408, 30766), (415, 30781), (422, 30796), (438, 30838), (446, 30856), (458, 30895), (470, 30919), (539, 31090), (556, 31168), (575, 31228), (583, 31264), (584, 31267), (599, 31345), (607, 31381), (613, 31405), (620, 31426), (673, 31597), (699, 31714), (704, 31741), (722, 31804), (724, 31810), (726, 31825), (737, 31867), (765, 31954), (784, 32011), (788, 32029), (795, 32050), (796, 32059), (797, 32065), (798, 32071), (801, 32083), (824, 32188), (827, 32206), (833, 32239), (853, 32326), (860, 32356), (863, 32362), (878, 32422), (900, 32515), (901, 32530), (908, 32572), (923, 32686),

Gene: CallaLilly_27 Start: 20835, Stop: 23267, Start Num: 151

Candidate Starts for CallaLilly_27:

(Start: 151 @20835 has 97 MA's), (214, 20934), (339, 21195), (346, 21216), (416, 21423), (431, 21456), (439, 21486), (473, 21558), (482, 21582), (548, 21780), (556, 21825), (561, 21837), (565, 21846), (577, 21897), (619, 22077), (624, 22092), (641, 22161), (646, 22173), (670, 22236), (682, 22278), (691, 22317), (692, 22323), (695, 22332), (700, 22353), (715, 22413), (745, 22530), (755,

22572), (783, 22644), (785, 22653), (792, 22674), (808, 22746), (813, 22767), (833, 22863), (872, 23010), (894, 23091), (912, 23238),

Gene: Calm_20 Start: 19011, Stop: 21692, Start Num: 79

Candidate Starts for Calm_20:

(Start: 79 @19011 has 19 MA's), (81, 19017), (164, 19194), (182, 19224), (215, 19287), (249, 19362), (273, 19416), (304, 19476), (306, 19482), (333, 19548), (354, 19611), (363, 19644), (365, 19647), (372, 19671), (378, 19695), (380, 19701), (381, 19707), (395, 19755), (404, 19776), (412, 19791), (421, 19812), (437, 19851), (442, 19863), (450, 19881), (488, 19956), (497, 19986), (506, 20010), (507, 20013), (525, 20058), (542, 20109), (549, 20127), (561, 20181), (579, 20253), (583, 20265), (586, 20274), (592, 20316), (599, 20346), (607, 20382), (611, 20400), (617, 20415), (618, 20421), (628, 20454), (670, 20583), (673, 20592), (691, 20673), (699, 20709), (701, 20715), (726, 20820), (729, 20829), (734, 20844), (737, 20862), (750, 20904), (782, 21000), (784, 21006), (797, 21060), (798, 21066), (801, 21078), (826, 21189), (830, 21219), (831, 21225), (853, 21321), (855, 21327), (860, 21351), (863, 21357), (864, 21363), (877, 21408), (878, 21417), (881, 21426), (893, 21465), (898, 21501), (900, 21510), (901, 21525), (913, 21621), (921, 21672), (922, 21678),

Gene: Cambiare_23 Start: 21228, Stop: 23705, Start Num: 97

Candidate Starts for Cambiare_23:

(Start: 97 @21228 has 9 MA's), (147, 21336), (198, 21426), (233, 21474), (251, 21516), (341, 21693), (376, 21810), (416, 21909), (463, 21990), (483, 22032), (493, 22056), (502, 22083), (503, 22086), (507, 22098), (537, 22179), (552, 22230), (588, 22359), (590, 22371), (621, 22497), (636, 22557), (640, 22572), (642, 22578), (668, 22647), (702, 22785), (719, 22848), (726, 22887), (762, 23022), (768, 23031), (784, 23079), (787, 23094), (814, 23205), (882, 23499), (896, 23550), (909, 23643),

Gene: Candle_30 Start: 24637, Stop: 28131, Start Num: 2

Candidate Starts for Candle_30:

(Start: 2 @24637 has 9 MA's), (4, 24649), (Start: 5 @24661 has 1 MA's), (8, 24844), (12, 24925), (18, 25024), (20, 25048), (21, 25066), (39, 25225), (41, 25258), (52, 25306), (63, 25345), (92, 25471), (Start: 97 @25480 has 9 MA's), (183, 25666), (278, 25867), (345, 26044), (373, 26143), (382, 26176), (396, 26221), (401, 26233), (419, 26275), (423, 26281), (425, 26284), (467, 26353), (499, 26431), (501, 26437), (516, 26482), (517, 26485), (548, 26569), (614, 26824), (627, 26863), (675, 27010), (676, 27016), (716, 27190), (725, 27223), (729, 27244), (732, 27253), (738, 27280), (809, 27523), (839, 27667), (895, 27865), (899, 27895), (908, 27952), (911, 27988), (918, 28015), (919, 28027),

Gene: Capricorn_27 Start: 20912, Stop: 23344, Start Num: 151

Candidate Starts for Capricorn_27:

(Start: 151 @20912 has 97 MA's), (214, 21011), (339, 21272), (346, 21293), (416, 21500), (431, 21533), (439, 21563), (473, 21635), (482, 21659), (548, 21857), (556, 21902), (561, 21914), (565, 21923), (577, 21974), (619, 22154), (624, 22169), (641, 22238), (646, 22250), (670, 22313), (682, 22355), (691, 22394), (692, 22400), (695, 22409), (700, 22430), (715, 22490), (745, 22607), (755, 22649), (783, 22721), (785, 22730), (792, 22751), (808, 22823), (813, 22844), (833, 22940), (872, 23087), (894, 23168), (912, 23315),

Gene: CaptainTrips_19 Start: 18092, Stop: 20629, Start Num: 100

Candidate Starts for CaptainTrips_19:

(Start: 100 @18092 has 238 MA's), (Start: 151 @18182 has 97 MA's), (188, 18242), (194, 18251), (196, 18254), (204, 18272), (222, 18305), (233, 18320), (257, 18368), (307, 18479), (308, 18482), (325, 18512), (329, 18524), (330, 18527), (357, 18605), (362, 18629), (380, 18695), (392, 18740), (404, 18770), (407, 18776), (416, 18794), (428, 18818), (432, 18827), (456, 18860), (461, 18866), (479, 18896), (495, 18935), (498, 18947), (501, 18956), (507, 18971), (508, 18974), (548, 19085), (549, 19088), (550, 19097), (551, 19103), (554, 19118), (555, 19121), (561, 19142), (573, 19172), (576, 19184), (585, 19217), (610, 19328), (611, 19331), (621, 19358), (623, 19364), (636, 19418),

(637, 19421), (674, 19508), (677, 19523), (681, 19535), (682, 19538), (697, 19604), (702, 19628), (705, 19649), (707, 19658), (724, 19718), (725, 19721), (734, 19757), (737, 19775), (743, 19787), (745, 19796), (751, 19823), (776, 19892), (780, 19910), (784, 19919), (786, 19931), (797, 19967), (804, 19997), (809, 20018), (816, 20042), (823, 20078), (833, 20132), (849, 20192), (858, 20234), (880, 20312), (896, 20369), (900, 20393), (908, 20447), (912, 20495), (922, 20537), (925, 20561), (926, 20564),

Gene: CaseJules_27 Start: 20912, Stop: 23344, Start Num: 151

Candidate Starts for CaseJules_27:

(Start: 151 @20912 has 97 MA's), (214, 21011), (339, 21272), (346, 21293), (416, 21500), (431, 21533), (439, 21563), (473, 21635), (482, 21659), (548, 21857), (556, 21902), (561, 21914), (565, 21923), (577, 21974), (619, 22154), (624, 22169), (641, 22238), (646, 22250), (670, 22313), (682, 22355), (691, 22394), (692, 22400), (695, 22409), (700, 22430), (715, 22490), (745, 22607), (755, 22649), (783, 22721), (785, 22730), (792, 22751), (808, 22823), (813, 22844), (833, 22940), (872, 23087), (894, 23168), (912, 23315),

Gene: Catdawg_58 Start: 36145, Stop: 38655, Start Num: 114

Candidate Starts for Catdawg_58:

(Start: 114 @36145 has 34 MA's), (128, 36178), (163, 36247), (165, 36250), (179, 36274), (196, 36298), (209, 36322), (222, 36355), (310, 36562), (315, 36574), (316, 36577), (368, 36724), (373, 36754), (380, 36778), (392, 36808), (393, 36811), (404, 36838), (416, 36862), (431, 36892), (468, 36949), (481, 36973), (495, 37009), (498, 37021), (507, 37045), (508, 37048), (520, 37090), (554, 37186), (555, 37189), (627, 37444), (677, 37588), (691, 37648), (704, 37720), (705, 37723), (730, 37819), (780, 37993), (786, 38014), (812, 38107), (815, 38119), (833, 38209), (854, 38284), (879, 38329), (917, 38530), (924, 38584), (929, 38599),

Gene: Caterpie_28 Start: 26686, Stop: 29439, Start Num: 74

Candidate Starts for Caterpie_28:

(60, 26593), (Start: 74 @26686 has 3 MA's), (104, 26764), (126, 26800), (138, 26827), (149, 26851), (189, 26920), (220, 26989), (232, 27013), (238, 27025), (328, 27259), (333, 27271), (336, 27286), (351, 27322), (362, 27364), (378, 27418), (392, 27466), (403, 27496), (405, 27499), (448, 27607), (470, 27661), (479, 27676), (486, 27691), (513, 27760), (518, 27781), (526, 27799), (539, 27832), (544, 27856), (546, 27859), (556, 27910), (572, 27946), (575, 27970), (583, 28006), (586, 28015), (588, 28030), (592, 28057), (599, 28087), (607, 28123), (611, 28141), (612, 28144), (616, 28153), (652, 28279), (668, 28327), (699, 28459), (704, 28486), (719, 28537), (722, 28549), (724, 28555), (737, 28612), (749, 28651), (765, 28699), (776, 28726), (784, 28756), (788, 28774), (796, 28804), (798, 28816), (801, 28828), (825, 28936), (827, 28951), (833, 28984), (837, 29005), (853, 29071), (860, 29101), (863, 29107), (878, 29167), (881, 29176), (884, 29185), (900, 29260), (901, 29275), (903, 29281), (908, 29317), (923, 29431),

Gene: Causa_36 Start: 31862, Stop: 33766, Start Num: 413

Candidate Starts for Causa_36:

(Start: 413 @31862 has 2 MA's), (462, 31973), (472, 31991), (499, 32060), (552, 32231), (575, 32306), (595, 32408), (609, 32453), (626, 32513), (631, 32537), (640, 32567), (696, 32753), (710, 32831), (723, 32885), (737, 32948), (750, 32996), (759, 33032), (760, 33035), (766, 33047), (775, 33071), (818, 33248), (819, 33254), (829, 33299), (830, 33302), (842, 33353), (891, 33485), (912, 33629), (928, 33710), (937, 33755),

Gene: Cborch11_30 Start: 25681, Stop: 28524, Start Num: 36

Candidate Starts for Cborch11_30:

(Start: 36 @25681 has 10 MA's), (65, 25813), (67, 25825), (68, 25834), (83, 25903), (85, 25909), (124, 25969), (131, 25990), (154, 26038), (173, 26080), (190, 26104), (208, 26137), (227, 26173), (234, 26185), (280, 26278), (303, 26335), (323, 26374), (366, 26500), (382, 26569), (390, 26599), (407,

26641), (432, 26692), (484, 26782), (495, 26800), (520, 26881), (538, 26920), (545, 26941), (585, 27079), (591, 27118), (609, 27181), (637, 27283), (705, 27508), (805, 27871), (812, 27898), (866, 28141), (877, 28174), (882, 28198), (906, 28318), (919, 28396), (935, 28483), (938, 28498), (939, 28504),

Gene: Cerasum_19 Start: 17226, Stop: 20090, Start Num: 53

Candidate Starts for Cerasum_19:

(Start: 53 @17226 has 9 MA's), (62, 17247), (64, 17268), (69, 17307), (87, 17376), (89, 17385), (91, 17388), (116, 17439), (155, 17529), (181, 17580), (221, 17664), (226, 17676), (236, 17697), (250, 17730), (301, 17877), (326, 17940), (338, 17979), (347, 18003), (352, 18018), (355, 18027), (362, 18054), (370, 18060), (392, 18129), (400, 18150), (403, 18156), (420, 18192), (430, 18210), (464, 18303), (475, 18324), (488, 18348), (513, 18414), (518, 18435), (526, 18453), (539, 18486), (546, 18513), (556, 18564), (572, 18600), (575, 18624), (583, 18660), (586, 18669), (588, 18684), (592, 18711), (599, 18741), (607, 18777), (613, 18801), (640, 18900), (656, 18939), (668, 18978), (675, 18999), (699, 19110), (704, 19137), (712, 19167), (719, 19188), (722, 19200), (724, 19206), (737, 19263), (784, 19407), (788, 19425), (798, 19467), (801, 19479), (833, 19635), (853, 19722), (860, 19752), (863, 19758), (878, 19818), (884, 19836), (900, 19911), (903, 19932), (908, 19968), (923, 20082),

Gene: Che8_18 Start: 17426, Stop: 19963, Start Num: 100

Candidate Starts for Che8_18:

(Start: 100 @17426 has 238 MA's), (113, 17447), (Start: 125 @17468 has 1 MA's), (142, 17507), (188, 17576), (194, 17585), (196, 17588), (204, 17606), (222, 17639), (233, 17654), (307, 17813), (308, 17816), (325, 17846), (330, 17861), (357, 17939), (362, 17963), (380, 18029), (404, 18104), (407, 18110), (416, 18128), (428, 18152), (431, 18158), (432, 18161), (456, 18194), (461, 18200), (479, 18230), (488, 18251), (498, 18281), (501, 18290), (540, 18398), (545, 18410), (548, 18419), (549, 18422), (550, 18431), (551, 18437), (554, 18452), (555, 18455), (561, 18476), (573, 18506), (576, 18518), (585, 18551), (621, 18692), (623, 18698), (636, 18752), (637, 18755), (652, 18782), (677, 18857), (681, 18869), (682, 18872), (687, 18893), (697, 18938), (702, 18962), (707, 18992), (719, 19034), (724, 19052), (725, 19055), (734, 19091), (737, 19109), (743, 19121), (745, 19130), (751, 19157), (773, 19214), (776, 19226), (780, 19244), (784, 19253), (786, 19265), (797, 19301), (804, 19331), (807, 19340), (809, 19352), (823, 19412), (833, 19466), (858, 19568), (880, 19646), (896, 19703), (900, 19727), (908, 19781), (912, 19829), (918, 19850), (925, 19895), (926, 19898),

Gene: Che9d_24 Start: 17101, Stop: 19650, Start Num: 80

Candidate Starts for Che9d_24:

(77, 17092), (Start: 80 @17101 has 7 MA's), (Start: 100 @17161 has 238 MA's), (122, 17197), (177, 17296), (257, 17437), (285, 17476), (290, 17491), (308, 17527), (309, 17533), (311, 17536), (327, 17554), (335, 17578), (345, 17602), (346, 17605), (389, 17749), (392, 17758), (404, 17782), (416, 17806), (428, 17830), (431, 17836), (442, 17857), (449, 17860), (461, 17878), (479, 17908), (490, 17938), (498, 17959), (531, 18052), (538, 18067), (540, 18076), (548, 18097), (549, 18100), (556, 18142), (573, 18184), (574, 18187), (576, 18196), (583, 18223), (586, 18232), (592, 18271), (596, 18292), (598, 18295), (609, 18331), (614, 18352), (636, 18430), (637, 18433), (666, 18487), (681, 18547), (700, 18634), (702, 18640), (705, 18661), (716, 18697), (729, 18751), (732, 18760), (750, 18838), (755, 18856), (769, 18892), (770, 18895), (776, 18913), (780, 18931), (797, 18988), (799, 19000), (816, 19063), (823, 19096), (840, 19183), (852, 19231), (857, 19255), (865, 19282), (871, 19291), (879, 19330), (890, 19369), (896, 19393), (899, 19414), (912, 19510), (918, 19531), (927, 19591), (929, 19594), (933, 19621),

Gene: Cheesepuff_20 Start: 18248, Stop: 20785, Start Num: 100

Candidate Starts for Cheesepuff_20:

(Start: 100 @18248 has 238 MA's), (113, 18269), (Start: 125 @18290 has 1 MA's), (142, 18329), (188, 18398), (194, 18407), (196, 18410), (204, 18428), (222, 18461), (233, 18476), (303, 18629), (308,

18638), (330, 18683), (361, 18782), (362, 18785), (380, 18851), (392, 18896), (404, 18926), (407, 18932), (416, 18950), (428, 18974), (431, 18980), (432, 18983), (456, 19016), (461, 19022), (479, 19052), (495, 19091), (498, 19103), (501, 19112), (507, 19127), (508, 19130), (548, 19241), (549, 19244), (550, 19253), (551, 19259), (554, 19274), (555, 19277), (561, 19298), (573, 19328), (576, 19340), (585, 19373), (610, 19484), (611, 19487), (621, 19514), (623, 19520), (636, 19574), (637, 19577), (658, 19613), (674, 19664), (677, 19679), (681, 19691), (682, 19694), (697, 19760), (702, 19784), (705, 19805), (707, 19814), (724, 19874), (725, 19877), (734, 19913), (737, 19931), (743, 19943), (745, 19952), (751, 19979), (773, 20036), (776, 20048), (780, 20066), (784, 20075), (786, 20087), (797, 20123), (804, 20153), (807, 20162), (809, 20174), (816, 20198), (823, 20234), (833, 20288), (849, 20348), (858, 20390), (880, 20468), (896, 20525), (900, 20549), (908, 20603), (912, 20651), (922, 20693), (925, 20717), (926, 20720),

Gene: CheetoDust_27 Start: 20889, Stop: 23321, Start Num: 151

Candidate Starts for CheetoDust_27:

(Start: 151 @20889 has 97 MA's), (214, 20988), (339, 21249), (416, 21477), (429, 21507), (431, 21510), (439, 21540), (473, 21612), (482, 21636), (498, 21681), (548, 21834), (556, 21879), (561, 21891), (565, 21900), (577, 21951), (619, 22131), (624, 22146), (636, 22197), (641, 22215), (646, 22227), (666, 22269), (670, 22290), (682, 22332), (691, 22371), (692, 22377), (695, 22386), (700, 22407), (709, 22455), (715, 22467), (726, 22515), (745, 22584), (755, 22626), (780, 22695), (783, 22698), (785, 22707), (792, 22728), (813, 22821), (833, 22917), (848, 22980), (872, 23064), (894, 23145), (904, 23220),

Gene: Chevrolet_18 Start: 17438, Stop: 19975, Start Num: 100

Candidate Starts for Chevrolet_18:

(Start: 100 @17438 has 238 MA's), (113, 17459), (Start: 125 @17480 has 1 MA's), (142, 17519), (188, 17588), (194, 17597), (196, 17600), (204, 17618), (222, 17651), (233, 17666), (307, 17825), (308, 17828), (325, 17858), (330, 17873), (357, 17951), (361, 17972), (362, 17975), (380, 18041), (404, 18116), (407, 18122), (428, 18164), (431, 18170), (432, 18173), (456, 18206), (461, 18212), (479, 18242), (488, 18263), (498, 18293), (501, 18302), (540, 18410), (545, 18422), (548, 18431), (549, 18434), (550, 18443), (551, 18449), (554, 18464), (555, 18467), (561, 18488), (576, 18530), (585, 18563), (621, 18704), (623, 18710), (636, 18764), (637, 18767), (652, 18794), (674, 18854), (677, 18869), (681, 18881), (682, 18884), (697, 18950), (702, 18974), (705, 18995), (707, 19004), (724, 19064), (725, 19067), (734, 19103), (737, 19121), (743, 19133), (745, 19142), (751, 19169), (776, 19238), (780, 19256), (784, 19265), (786, 19277), (797, 19313), (804, 19343), (823, 19424), (833, 19478), (849, 19538), (858, 19580), (880, 19658), (896, 19715), (900, 19739), (908, 19793), (912, 19841), (922, 19883), (925, 19907), (926, 19910),

Gene: ChickenDinner_19 Start: 17271, Stop: 19796, Start Num: 100

Candidate Starts for ChickenDinner_19:

(Start: 100 @17271 has 238 MA's), (113, 17292), (Start: 125 @17313 has 1 MA's), (142, 17352), (188, 17421), (194, 17430), (196, 17433), (204, 17451), (222, 17484), (233, 17499), (257, 17547), (307, 17658), (308, 17661), (330, 17706), (357, 17784), (362, 17808), (380, 17874), (382, 17883), (404, 17949), (407, 17955), (416, 17973), (428, 17997), (431, 18003), (432, 18006), (456, 18039), (461, 18045), (479, 18075), (488, 18096), (501, 18135), (507, 18150), (509, 18156), (555, 18300), (573, 18351), (597, 18462), (611, 18513), (620, 18537), (652, 18630), (669, 18675), (672, 18684), (677, 18705), (681, 18717), (682, 18720), (691, 18765), (702, 18810), (704, 18828), (705, 18831), (719, 18882), (732, 18933), (734, 18939), (737, 18957), (743, 18969), (745, 18978), (752, 19011), (780, 19092), (799, 19161), (807, 19188), (813, 19215), (825, 19266), (833, 19314), (899, 19557), (912, 19662), (918, 19683), (928, 19737), (932, 19761),

Gene: Chill_31 Start: 24322, Stop: 26592, Start Num: 291

Candidate Starts for Chill_31:

(Start: 291 @24322 has 22 MA's), (340, 24457), (344, 24466), (392, 24640), (394, 24646), (399, 24658), (465, 24811), (474, 24826), (482, 24841), (594, 25222), (595, 25228), (608, 25273), (631, 25360), (694, 25561), (696, 25567), (705, 25615), (710, 25645), (717, 25669), (764, 25858), (775, 25885), (789, 25933), (806, 26005), (816, 26044), (818, 26065), (821, 26080), (825, 26098), (829, 26128), (850, 26212), (907, 26413), (912, 26455), (937, 26581),

Gene: ChosenOne_25 Start: 21491, Stop: 23887, Start Num: 148

Candidate Starts for ChosenOne_25:

(Start: 148 @21491 has 132 MA's), (248, 21668), (259, 21689), (342, 21836), (391, 22010), (404, 22043), (420, 22079), (479, 22172), (501, 22232), (508, 22250), (552, 22382), (566, 22427), (598, 22559), (610, 22604), (630, 22664), (672, 22778), (677, 22799), (688, 22838), (691, 22859), (695, 22874), (732, 23024), (734, 23030), (737, 23048), (752, 23102), (780, 23186), (807, 23279), (871, 23525), (912, 23741), (926, 23825), (933, 23858),

Gene: ChotaBhai_26 Start: 21533, Stop: 23929, Start Num: 148

Candidate Starts for ChotaBhai_26:

(Start: 148 @21533 has 132 MA's), (248, 21710), (259, 21731), (342, 21878), (382, 22019), (391, 22052), (404, 22085), (420, 22121), (479, 22214), (501, 22274), (508, 22292), (552, 22424), (566, 22469), (598, 22601), (610, 22646), (672, 22820), (677, 22841), (688, 22880), (691, 22901), (695, 22916), (734, 23072), (737, 23090), (752, 23144), (780, 23228), (807, 23321), (871, 23567), (912, 23783), (926, 23867), (933, 23900),

Gene: Chris_26 Start: 20139, Stop: 22598, Start Num: 151

Candidate Starts for Chris_26:

(Start: 151 @20139 has 97 MA's), (156, 20148), (171, 20187), (247, 20310), (274, 20367), (330, 20472), (346, 20520), (356, 20547), (407, 20709), (448, 20820), (452, 20829), (453, 20838), (460, 20859), (482, 20907), (517, 21009), (562, 21168), (582, 21249), (605, 21351), (619, 21405), (634, 21465), (660, 21528), (666, 21543), (667, 21555), (670, 21564), (682, 21606), (691, 21651), (695, 21666), (718, 21753), (723, 21777), (792, 22014), (814, 22110), (844, 22248), (867, 22332), (911, 22563), (912, 22569),

Gene: Chuckly_18 Start: 17569, Stop: 20106, Start Num: 100

Candidate Starts for Chuckly_18:

(96, 17557), (Start: 100 @17569 has 238 MA's), (113, 17590), (Start: 125 @17611 has 1 MA's), (142, 17650), (188, 17719), (194, 17728), (196, 17731), (204, 17749), (222, 17782), (233, 17797), (257, 17845), (307, 17956), (308, 17959), (325, 17989), (329, 18001), (330, 18004), (357, 18082), (362, 18106), (380, 18172), (392, 18217), (404, 18247), (407, 18253), (416, 18271), (428, 18295), (432, 18304), (456, 18337), (461, 18343), (479, 18373), (495, 18412), (498, 18424), (501, 18433), (507, 18448), (509, 18454), (548, 18562), (549, 18565), (550, 18574), (551, 18580), (554, 18595), (555, 18598), (561, 18619), (573, 18649), (576, 18661), (585, 18694), (598, 18760), (610, 18805), (611, 18808), (621, 18835), (623, 18841), (636, 18895), (637, 18898), (674, 18985), (677, 19000), (681, 19012), (682, 19015), (697, 19081), (702, 19105), (705, 19126), (707, 19135), (724, 19195), (725, 19198), (734, 19234), (737, 19252), (745, 19273), (751, 19300), (776, 19369), (780, 19387), (784, 19396), (786, 19408), (797, 19444), (804, 19474), (809, 19495), (816, 19519), (823, 19555), (833, 19609), (849, 19669), (858, 19711), (896, 19846), (900, 19870), (908, 19924), (912, 19972), (922, 20014), (925, 20038), (926, 20041),

Gene: CicholasNage_20 Start: 18999, Stop: 21680, Start Num: 79

Candidate Starts for CicholasNage_20:

(Start: 79 @18999 has 19 MA's), (81, 19005), (164, 19182), (182, 19212), (215, 19275), (249, 19350), (273, 19404), (304, 19464), (306, 19470), (333, 19536), (354, 19599), (363, 19632), (365, 19635), (372, 19659), (378, 19683), (380, 19689), (381, 19695), (395, 19743), (404, 19764), (412, 19779), (421, 19800), (437, 19839), (442, 19851), (450, 19869), (488, 19944), (497, 19974), (506, 19998),

(507, 20001), (525, 20046), (542, 20097), (549, 20115), (561, 20169), (579, 20241), (583, 20253), (586, 20262), (592, 20304), (599, 20334), (607, 20370), (611, 20388), (617, 20403), (618, 20409), (628, 20442), (670, 20571), (673, 20580), (691, 20661), (699, 20697), (701, 20703), (726, 20808), (729, 20817), (734, 20832), (737, 20850), (750, 20892), (782, 20988), (784, 20994), (797, 21048), (798, 21054), (801, 21066), (826, 21177), (830, 21207), (831, 21213), (837, 21243), (853, 21309), (855, 21315), (860, 21339), (863, 21345), (864, 21351), (877, 21396), (878, 21405), (881, 21414), (893, 21453), (898, 21489), (900, 21498), (901, 21513), (913, 21609), (921, 21660), (922, 21666),

Gene: Cjw1_26 Start: 23044, Stop: 25440, Start Num: 148

Candidate Starts for Cjw1_26:

(Start: 148 @23044 has 132 MA's), (248, 23221), (259, 23242), (342, 23389), (391, 23563), (404, 23596), (420, 23632), (501, 23785), (508, 23803), (552, 23935), (566, 23980), (598, 24112), (610, 24157), (630, 24217), (672, 24331), (677, 24352), (688, 24391), (691, 24412), (695, 24427), (732, 24577), (734, 24583), (737, 24601), (752, 24655), (780, 24739), (807, 24832), (871, 25078), (912, 25294), (926, 25378), (933, 25411),

Gene: Clank_18 Start: 17552, Stop: 20029, Start Num: 100

Candidate Starts for Clank_18:

(Start: 100 @17552 has 238 MA's), (113, 17573), (Start: 125 @17594 has 1 MA's), (143, 17633), (188, 17702), (194, 17711), (196, 17714), (204, 17732), (222, 17765), (233, 17780), (285, 17867), (290, 17882), (308, 17918), (309, 17924), (330, 17957), (335, 17969), (389, 18140), (392, 18149), (404, 18173), (431, 18227), (456, 18263), (461, 18269), (479, 18299), (490, 18329), (498, 18350), (501, 18359), (507, 18374), (531, 18443), (555, 18524), (556, 18533), (566, 18554), (567, 18557), (576, 18587), (586, 18623), (594, 18674), (596, 18683), (598, 18686), (606, 18713), (609, 18722), (614, 18743), (636, 18821), (637, 18824), (669, 18896), (679, 18932), (681, 18938), (690, 18980), (691, 18986), (701, 19028), (702, 19031), (705, 19052), (706, 19058), (707, 19061), (716, 19091), (750, 19232), (752, 19241), (755, 19250), (767, 19283), (776, 19307), (777, 19310), (780, 19325), (786, 19346), (797, 19382), (798, 19388), (799, 19394), (805, 19415), (812, 19442), (840, 19577), (857, 19649), (860, 19655), (871, 19673), (896, 19772), (912, 19889), (927, 19970), (929, 19973), (933, 20000),

Gene: Clifton_18 Start: 17353, Stop: 20217, Start Num: 53

Candidate Starts for Clifton_18:

(50, 17341), (Start: 53 @17353 has 9 MA's), (62, 17374), (64, 17395), (69, 17434), (87, 17503), (89, 17512), (91, 17515), (116, 17566), (155, 17656), (175, 17701), (221, 17791), (224, 17800), (226, 17803), (236, 17824), (242, 17836), (255, 17869), (301, 18004), (319, 18052), (326, 18067), (333, 18088), (347, 18130), (352, 18145), (355, 18154), (362, 18181), (370, 18187), (381, 18232), (384, 18241), (392, 18256), (397, 18268), (400, 18277), (403, 18283), (408, 18292), (420, 18319), (430, 18337), (464, 18430), (475, 18451), (488, 18475), (513, 18541), (518, 18562), (526, 18580), (539, 18613), (544, 18637), (546, 18640), (556, 18691), (572, 18727), (575, 18751), (583, 18787), (586, 18796), (588, 18811), (592, 18838), (599, 18868), (607, 18904), (613, 18928), (640, 19027), (656, 19066), (673, 19120), (699, 19237), (704, 19264), (722, 19327), (724, 19333), (726, 19348), (737, 19390), (765, 19477), (776, 19504), (784, 19534), (788, 19552), (796, 19582), (798, 19594), (801, 19606), (824, 19711), (827, 19729), (833, 19762), (853, 19849), (860, 19879), (863, 19885), (878, 19945), (881, 19954), (884, 19963), (900, 20038), (903, 20059), (908, 20095), (923, 20209),

Gene: Clipper_27 Start: 20889, Stop: 23321, Start Num: 151

Candidate Starts for Clipper_27:

(Start: 151 @20889 has 97 MA's), (214, 20988), (339, 21249), (346, 21270), (416, 21477), (431, 21510), (439, 21540), (473, 21612), (482, 21636), (498, 21681), (548, 21834), (556, 21879), (561, 21891), (565, 21900), (577, 21951), (619, 22131), (624, 22146), (641, 22215), (646, 22227), (670, 22290), (682, 22332), (691, 22371), (692, 22377), (695, 22386), (700, 22407), (715, 22467), (745, 22584), (755, 22626), (783, 22698), (785, 22707), (792, 22728), (808, 22800), (813, 22821), (833,

22917), (894, 23145), (912, 23292),

Gene: Cloudyecho_22 Start: 20645, Stop: 23107, Start Num: 97

Candidate Starts for Cloudyecho_22:

(Start: 97 @20645 has 9 MA's), (145, 20750), (147, 20753), (220, 20873), (238, 20906), (243, 20915), (257, 20948), (309, 21053), (376, 21236), (398, 21296), (465, 21419), (483, 21458), (502, 21509), (537, 21605), (545, 21626), (557, 21680), (582, 21761), (585, 21770), (590, 21797), (619, 21917), (627, 21944), (642, 22004), (666, 22052), (668, 22067), (686, 22133), (719, 22268), (733, 22328), (737, 22352), (823, 22652), (832, 22703), (834, 22715), (856, 22811), (868, 22847), (895, 22940), (909, 23045),

Gene: Coco12_20 Start: 17795, Stop: 20272, Start Num: 100

Candidate Starts for Coco12_20:

(98, 17783), (Start: 100 @17795 has 238 MA's), (113, 17816), (Start: 125 @17837 has 1 MA's), (143, 17876), (188, 17945), (194, 17954), (196, 17957), (204, 17975), (222, 18008), (233, 18023), (285, 18110), (290, 18125), (308, 18161), (309, 18167), (330, 18200), (335, 18212), (389, 18383), (392, 18392), (404, 18416), (431, 18470), (456, 18506), (461, 18512), (479, 18542), (490, 18572), (498, 18593), (501, 18602), (531, 18686), (551, 18749), (555, 18767), (556, 18776), (566, 18797), (567, 18800), (573, 18818), (576, 18830), (583, 18857), (586, 18866), (594, 18917), (596, 18926), (598, 18929), (606, 18956), (609, 18965), (614, 18986), (636, 19064), (637, 19067), (679, 19175), (681, 19181), (691, 19229), (701, 19271), (702, 19274), (705, 19295), (706, 19301), (707, 19304), (716, 19334), (750, 19475), (755, 19493), (767, 19526), (776, 19550), (777, 19553), (780, 19568), (786, 19589), (797, 19625), (798, 19631), (805, 19658), (812, 19685), (840, 19820), (852, 19868), (857, 19892), (860, 19898), (871, 19916), (896, 20015), (899, 20036), (901, 20054), (912, 20132), (918, 20153), (929, 20216), (931, 20234), (936, 20252),

Gene: Coffee_32 Start: 30077, Stop: 32797, Start Num: 75

Candidate Starts for Coffee_32:

(Start: 75 @30077 has 36 MA's), (94, 30131), (117, 30170), (138, 30215), (149, 30239), (152, 30242), (166, 30275), (225, 30383), (237, 30404), (238, 30407), (261, 30461), (288, 30521), (299, 30545), (313, 30581), (331, 30629), (336, 30650), (351, 30689), (362, 30728), (369, 30743), (381, 30797), (385, 30809), (392, 30833), (402, 30857), (408, 30869), (415, 30884), (422, 30899), (438, 30941), (446, 30959), (458, 30998), (470, 31022), (539, 31193), (556, 31271), (575, 31331), (583, 31367), (584, 31370), (599, 31448), (607, 31484), (613, 31508), (620, 31529), (673, 31700), (675, 31706), (699, 31817), (704, 31844), (722, 31907), (724, 31913), (726, 31928), (737, 31970), (765, 32057), (776, 32084), (784, 32114), (788, 32132), (795, 32153), (796, 32162), (797, 32168), (798, 32174), (801, 32186), (824, 32291), (827, 32309), (833, 32342), (853, 32429), (860, 32459), (863, 32465), (878, 32525), (900, 32618), (901, 32633), (908, 32675), (923, 32789),

Gene: Command613_27 Start: 22552, Stop: 24948, Start Num: 148

Candidate Starts for Command613_27:

(Start: 148 @22552 has 132 MA's), (248, 22729), (259, 22750), (342, 22897), (382, 23038), (391, 23071), (404, 23104), (420, 23140), (479, 23233), (501, 23293), (508, 23311), (538, 23392), (598, 23620), (610, 23665), (677, 23860), (679, 23866), (682, 23875), (691, 23920), (695, 23935), (734, 24091), (737, 24109), (740, 24118), (780, 24247), (781, 24250), (832, 24460), (834, 24472), (871, 24586), (912, 24802), (926, 24886), (931, 24910), (933, 24919),

Gene: Contagion_25 Start: 21791, Stop: 24187, Start Num: 148

Candidate Starts for Contagion_25:

(Start: 148 @21791 has 132 MA's), (248, 21968), (259, 21989), (342, 22136), (382, 22277), (391, 22310), (404, 22343), (420, 22379), (479, 22472), (501, 22532), (508, 22550), (552, 22682), (566, 22727), (598, 22859), (610, 22904), (672, 23078), (677, 23099), (688, 23138), (691, 23159), (695, 23174), (734, 23330), (737, 23348), (752, 23402), (780, 23486), (807, 23579), (871, 23825), (912,

24041), (926, 24125), (933, 24158),

Gene: Cookies_26 Start: 22153, Stop: 24549, Start Num: 148

Candidate Starts for Cookies_26:

(Start: 148 @22153 has 132 MA's), (248, 22330), (259, 22351), (342, 22498), (382, 22639), (391, 22672), (404, 22705), (420, 22741), (479, 22834), (501, 22894), (508, 22912), (552, 23044), (566, 23089), (598, 23221), (610, 23266), (630, 23326), (672, 23440), (677, 23461), (688, 23500), (691, 23521), (695, 23536), (732, 23686), (734, 23692), (737, 23710), (752, 23764), (780, 23848), (807, 23941), (871, 24187), (912, 24403), (926, 24487), (933, 24520),

Gene: Corium_18 Start: 17437, Stop: 19974, Start Num: 100

Candidate Starts for Corium_18:

(96, 17425), (Start: 100 @17437 has 238 MA's), (113, 17458), (Start: 125 @17479 has 1 MA's), (142, 17518), (188, 17587), (194, 17596), (196, 17599), (204, 17617), (222, 17650), (233, 17665), (257, 17713), (307, 17824), (308, 17827), (325, 17857), (329, 17869), (330, 17872), (357, 17950), (362, 17974), (380, 18040), (392, 18085), (404, 18115), (407, 18121), (416, 18139), (428, 18163), (432, 18172), (456, 18205), (461, 18211), (479, 18241), (495, 18280), (498, 18292), (501, 18301), (507, 18316), (508, 18319), (548, 18430), (549, 18433), (550, 18442), (551, 18448), (554, 18463), (555, 18466), (561, 18487), (573, 18517), (576, 18529), (585, 18562), (610, 18673), (611, 18676), (621, 18703), (623, 18709), (636, 18763), (637, 18766), (674, 18853), (677, 18868), (681, 18880), (682, 18883), (697, 18949), (702, 18973), (705, 18994), (707, 19003), (724, 19063), (725, 19066), (734, 19102), (737, 19120), (743, 19132), (745, 19141), (751, 19168), (776, 19237), (780, 19255), (784, 19264), (786, 19276), (797, 19312), (804, 19342), (809, 19363), (816, 19387), (823, 19423), (833, 19477), (849, 19537), (858, 19579), (880, 19657), (896, 19714), (900, 19738), (908, 19792), (912, 19840), (922, 19882), (925, 19906), (926, 19909),

Gene: Corndog_61 Start: 37139, Stop: 39649, Start Num: 114

Candidate Starts for Corndog_61:

(Start: 114 @37139 has 34 MA's), (128, 37172), (163, 37241), (165, 37244), (179, 37268), (196, 37292), (209, 37316), (222, 37349), (310, 37556), (315, 37568), (316, 37571), (368, 37718), (373, 37748), (380, 37772), (392, 37802), (393, 37805), (404, 37832), (416, 37856), (431, 37886), (468, 37943), (495, 38003), (498, 38015), (507, 38039), (508, 38042), (520, 38084), (554, 38180), (555, 38183), (627, 38438), (677, 38582), (691, 38642), (704, 38714), (705, 38717), (730, 38813), (780, 38987), (786, 39008), (812, 39101), (815, 39113), (833, 39203), (854, 39278), (879, 39323), (917, 39524), (924, 39578), (929, 39593),

Gene: Cornie_20 Start: 18264, Stop: 20744, Start Num: 103

Candidate Starts for Cornie_20:

(Start: 103 @18264 has 1 MA's), (107, 18270), (113, 18276), (Start: 148 @18339 has 132 MA's), (150, 18342), (167, 18369), (200, 18423), (204, 18432), (222, 18465), (241, 18498), (257, 18531), (285, 18570), (290, 18585), (308, 18621), (309, 18627), (311, 18630), (327, 18648), (330, 18660), (335, 18672), (345, 18696), (346, 18699), (376, 18804), (382, 18828), (389, 18843), (392, 18852), (404, 18876), (407, 18882), (416, 18900), (420, 18912), (424, 18918), (428, 18924), (431, 18930), (432, 18933), (436, 18942), (442, 18951), (456, 18966), (479, 19002), (495, 19041), (498, 19053), (501, 19062), (531, 19146), (555, 19227), (556, 19236), (567, 19260), (576, 19290), (586, 19326), (594, 19377), (596, 19386), (598, 19389), (606, 19416), (609, 19425), (614, 19446), (626, 19482), (636, 19524), (637, 19527), (666, 19581), (681, 19641), (700, 19728), (702, 19734), (705, 19755), (716, 19791), (729, 19845), (732, 19854), (750, 19932), (755, 19950), (769, 19986), (770, 19989), (776, 20007), (780, 20025), (797, 20082), (799, 20094), (816, 20157), (823, 20190), (840, 20277), (852, 20325), (857, 20349), (865, 20376), (871, 20385), (879, 20424), (890, 20463), (896, 20487), (899, 20508), (912, 20604), (918, 20625), (927, 20685), (929, 20688), (933, 20715),

Gene: Cornucopia_19 Start: 17435, Stop: 19972, Start Num: 100

Candidate Starts for Cornucopia_19:

(Start: 100 @17435 has 238 MA's), (113, 17456), (Start: 125 @17477 has 1 MA's), (142, 17516), (188, 17585), (194, 17594), (196, 17597), (204, 17615), (233, 17663), (303, 17816), (308, 17825), (330, 17870), (361, 17969), (362, 17972), (380, 18038), (404, 18113), (407, 18119), (416, 18137), (428, 18161), (432, 18170), (456, 18203), (461, 18209), (479, 18239), (488, 18260), (495, 18278), (498, 18290), (501, 18299), (507, 18314), (508, 18317), (548, 18428), (549, 18431), (550, 18440), (551, 18446), (554, 18461), (555, 18464), (561, 18485), (573, 18515), (576, 18527), (585, 18560), (610, 18671), (611, 18674), (621, 18701), (623, 18707), (636, 18761), (637, 18764), (664, 18812), (674, 18851), (677, 18866), (681, 18878), (682, 18881), (687, 18902), (697, 18947), (702, 18971), (707, 19001), (719, 19043), (724, 19061), (725, 19064), (734, 19100), (737, 19118), (743, 19130), (745, 19139), (752, 19172), (776, 19235), (780, 19253), (784, 19262), (786, 19274), (804, 19340), (809, 19361), (816, 19385), (823, 19421), (833, 19475), (849, 19535), (858, 19577), (880, 19655), (896, 19712), (900, 19736), (908, 19790), (912, 19838), (922, 19880), (925, 19904), (926, 19907),

Gene: Cosmo_43 Start: 28347, Stop: 30914, Start Num: 102

Candidate Starts for Cosmo_43:

(Start: 102 @28347 has 6 MA's), (132, 28416), (200, 28539), (203, 28545), (204, 28548), (219, 28572), (230, 28593), (302, 28749), (305, 28755), (308, 28761), (320, 28791), (322, 28797), (330, 28818), (334, 28827), (353, 28887), (364, 28923), (375, 28965), (407, 29064), (422, 29097), (431, 29112), (432, 29115), (461, 29154), (488, 29205), (495, 29223), (501, 29244), (504, 29250), (514, 29277), (520, 29304), (548, 29373), (553, 29397), (556, 29418), (567, 29439), (571, 29448), (576, 29469), (585, 29502), (586, 29505), (594, 29556), (598, 29568), (618, 29634), (624, 29652), (632, 29691), (677, 29808), (689, 29853), (701, 29910), (705, 29934), (707, 29943), (711, 29961), (724, 30006), (732, 30039), (739, 30075), (794, 30249), (797, 30267), (798, 30273), (813, 30330), (895, 30654), (897, 30672), (905, 30723), (914, 30786), (925, 30861),

Gene: Courthouse_36 Start: 27742, Stop: 30249, Start Num: 100

Candidate Starts for Courthouse_36:

(Start: 100 @27742 has 238 MA's), (204, 27937), (222, 27973), (233, 27988), (285, 28075), (290, 28090), (330, 28165), (335, 28177), (346, 28204), (376, 28309), (389, 28348), (392, 28357), (404, 28381), (407, 28387), (416, 28405), (424, 28423), (432, 28438), (436, 28447), (442, 28456), (456, 28471), (473, 28498), (479, 28507), (495, 28546), (498, 28558), (501, 28567), (531, 28651), (555, 28732), (566, 28762), (567, 28765), (576, 28795), (583, 28822), (586, 28831), (594, 28882), (596, 28891), (598, 28894), (609, 28930), (614, 28951), (626, 28987), (679, 29140), (691, 29194), (702, 29239), (704, 29257), (705, 29260), (716, 29299), (750, 29446), (752, 29455), (777, 29524), (780, 29539), (823, 29704), (840, 29791), (852, 29839), (871, 29890), (890, 29968), (927, 30190), (929, 30193), (933, 30220),

Gene: CrimD_27 Start: 20850, Stop: 23282, Start Num: 151

Candidate Starts for CrimD_27:

(Start: 151 @20850 has 97 MA's), (214, 20949), (339, 21210), (416, 21438), (431, 21471), (439, 21501), (473, 21573), (482, 21597), (498, 21642), (548, 21795), (556, 21840), (561, 21852), (565, 21861), (574, 21897), (577, 21912), (619, 22092), (624, 22107), (641, 22176), (646, 22188), (670, 22251), (682, 22293), (691, 22332), (692, 22338), (695, 22347), (700, 22368), (715, 22428), (745, 22545), (755, 22587), (785, 22668), (792, 22689), (813, 22782), (833, 22878), (894, 23106),

Gene: Crumble_18 Start: 17400, Stop: 20264, Start Num: 53

Candidate Starts for Crumble_18:

(50, 17388), (Start: 53 @17400 has 9 MA's), (62, 17421), (64, 17442), (69, 17481), (87, 17550), (89, 17559), (91, 17562), (116, 17613), (155, 17703), (175, 17748), (221, 17838), (224, 17847), (226, 17850), (236, 17871), (242, 17883), (255, 17916), (301, 18051), (319, 18099), (326, 18114), (333, 18135), (347, 18177), (352, 18192), (355, 18201), (362, 18228), (370, 18234), (381, 18279), (384, 18288), (392, 18303), (397, 18315), (400, 18324), (403, 18330), (408, 18339), (420, 18366), (430,

18384), (464, 18477), (475, 18498), (488, 18522), (513, 18588), (518, 18609), (526, 18627), (539, 18660), (544, 18684), (546, 18687), (556, 18738), (572, 18774), (575, 18798), (583, 18834), (586, 18843), (588, 18858), (592, 18885), (599, 18915), (607, 18951), (613, 18975), (640, 19074), (656, 19113), (673, 19167), (699, 19284), (704, 19311), (722, 19374), (724, 19380), (726, 19395), (737, 19437), (765, 19524), (776, 19551), (784, 19581), (788, 19599), (796, 19629), (798, 19641), (801, 19653), (824, 19758), (827, 19776), (833, 19809), (853, 19896), (860, 19926), (863, 19932), (878, 19992), (881, 20001), (884, 20010), (900, 20085), (903, 20106), (908, 20142), (923, 20256),

Gene: CrystalP_26 Start: 22284, Stop: 24680, Start Num: 148

Candidate Starts for CrystalP_26:

(Start: 148 @22284 has 132 MA's), (248, 22461), (259, 22482), (342, 22629), (382, 22770), (391, 22803), (404, 22836), (420, 22872), (479, 22965), (501, 23025), (508, 23043), (538, 23124), (598, 23352), (610, 23397), (677, 23592), (679, 23598), (682, 23607), (691, 23652), (695, 23667), (734, 23823), (737, 23841), (740, 23850), (780, 23979), (781, 23982), (832, 24192), (834, 24204), (871, 24318), (912, 24534), (926, 24618), (931, 24642), (933, 24651),

Gene: Czyszczone1_27 Start: 22029, Stop: 24425, Start Num: 148

Candidate Starts for Czyszczone1_27:

(Start: 148 @22029 has 132 MA's), (248, 22206), (259, 22227), (342, 22374), (391, 22548), (404, 22581), (420, 22617), (479, 22710), (501, 22770), (508, 22788), (552, 22920), (566, 22965), (598, 23097), (610, 23142), (630, 23202), (672, 23316), (677, 23337), (688, 23376), (691, 23397), (695, 23412), (732, 23562), (734, 23568), (737, 23586), (752, 23640), (780, 23724), (807, 23817), (871, 24063), (912, 24279), (926, 24363), (933, 24396),

Gene: D12_24 Start: 27231, Stop: 29945, Start Num: 76

Candidate Starts for D12_24:

(Start: 76 @27231 has 4 MA's), (101, 27300), (126, 27333), (135, 27354), (162, 27411), (185, 27441), (192, 27459), (237, 27552), (238, 27555), (261, 27609), (264, 27615), (299, 27693), (313, 27729), (321, 27750), (336, 27798), (351, 27837), (369, 27891), (381, 27945), (385, 27957), (392, 27981), (402, 28005), (403, 28008), (422, 28047), (438, 28089), (470, 28170), (479, 28185), (491, 28215), (526, 28308), (539, 28341), (553, 28398), (555, 28410), (556, 28419), (575, 28479), (583, 28515), (584, 28518), (599, 28596), (607, 28632), (616, 28662), (620, 28677), (652, 28785), (668, 28833), (670, 28839), (673, 28848), (675, 28854), (699, 28965), (704, 28992), (722, 29055), (724, 29061), (726, 29076), (737, 29118), (784, 29262), (788, 29280), (798, 29322), (801, 29334), (824, 29439), (827, 29457), (833, 29490), (853, 29577), (860, 29607), (863, 29613), (868, 29634), (878, 29673), (884, 29691), (900, 29766), (903, 29787), (908, 29823), (923, 29937),

Gene: DLane_18 Start: 17386, Stop: 19923, Start Num: 100

Candidate Starts for DLane_18:

(96, 17374), (Start: 100 @17386 has 238 MA's), (113, 17407), (Start: 125 @17428 has 1 MA's), (142, 17467), (188, 17536), (194, 17545), (196, 17548), (204, 17566), (222, 17599), (233, 17614), (257, 17662), (307, 17773), (308, 17776), (325, 17806), (327, 17809), (330, 17821), (357, 17899), (362, 17923), (380, 17989), (392, 18034), (404, 18064), (407, 18070), (416, 18088), (428, 18112), (432, 18121), (456, 18154), (461, 18160), (479, 18190), (498, 18241), (501, 18250), (507, 18265), (508, 18268), (548, 18379), (549, 18382), (550, 18391), (551, 18397), (554, 18412), (555, 18415), (561, 18436), (573, 18466), (576, 18478), (585, 18511), (610, 18622), (611, 18625), (621, 18652), (623, 18658), (636, 18712), (637, 18715), (677, 18817), (681, 18829), (682, 18832), (697, 18898), (702, 18922), (705, 18943), (707, 18952), (724, 19012), (725, 19015), (734, 19051), (737, 19069), (743, 19081), (745, 19090), (751, 19117), (776, 19186), (780, 19204), (784, 19213), (786, 19225), (797, 19261), (804, 19291), (809, 19312), (816, 19336), (823, 19372), (833, 19426), (849, 19486), (858, 19528), (880, 19606), (896, 19663), (900, 19687), (908, 19741), (912, 19789), (922, 19831), (925, 19855), (926, 19858),

Gene: DRBy19_18 Start: 17429, Stop: 19966, Start Num: 100

Candidate Starts for DRBy19_18:

(Start: 100 @17429 has 238 MA's), (113, 17450), (Start: 125 @17471 has 1 MA's), (142, 17510), (188, 17579), (194, 17588), (196, 17591), (204, 17609), (233, 17657), (303, 17810), (308, 17819), (330, 17864), (357, 17942), (362, 17966), (380, 18032), (392, 18077), (404, 18107), (407, 18113), (416, 18131), (428, 18155), (432, 18164), (456, 18197), (461, 18203), (479, 18233), (495, 18272), (501, 18293), (507, 18308), (508, 18311), (549, 18425), (550, 18434), (551, 18440), (555, 18458), (561, 18479), (573, 18509), (576, 18521), (585, 18554), (610, 18665), (611, 18668), (621, 18695), (623, 18701), (636, 18755), (637, 18758), (674, 18845), (677, 18860), (682, 18875), (702, 18965), (705, 18986), (707, 18995), (724, 19055), (725, 19058), (734, 19094), (737, 19112), (743, 19124), (745, 19133), (751, 19160), (776, 19229), (780, 19247), (784, 19256), (786, 19268), (797, 19304), (804, 19334), (809, 19355), (816, 19379), (823, 19415), (833, 19469), (858, 19571), (880, 19649), (896, 19706), (900, 19730), (908, 19784), (912, 19832), (922, 19874), (928, 19907), (929, 19910),

Gene: DaWorst_20 Start: 17930, Stop: 20467, Start Num: 100

Candidate Starts for DaWorst_20:

(Start: 100 @17930 has 238 MA's), (113, 17951), (Start: 125 @17972 has 1 MA's), (142, 18011), (188, 18080), (194, 18089), (196, 18092), (204, 18110), (222, 18143), (233, 18158), (307, 18317), (308, 18320), (325, 18350), (330, 18365), (357, 18443), (361, 18464), (362, 18467), (380, 18533), (404, 18608), (407, 18614), (428, 18656), (431, 18662), (432, 18665), (456, 18698), (461, 18704), (479, 18734), (488, 18755), (498, 18785), (501, 18794), (540, 18902), (545, 18914), (548, 18923), (549, 18926), (550, 18935), (551, 18941), (554, 18956), (555, 18959), (561, 18980), (576, 19022), (585, 19055), (621, 19196), (623, 19202), (636, 19256), (637, 19259), (652, 19286), (674, 19346), (677, 19361), (681, 19373), (682, 19376), (697, 19442), (702, 19466), (705, 19487), (707, 19496), (724, 19556), (725, 19559), (734, 19595), (737, 19613), (743, 19625), (745, 19634), (751, 19661), (776, 19730), (780, 19748), (784, 19757), (786, 19769), (797, 19805), (804, 19835), (823, 19916), (833, 19970), (849, 20030), (858, 20072), (880, 20150), (896, 20207), (900, 20231), (908, 20285), (912, 20333), (922, 20375), (925, 20399), (926, 20402),

Gene: DaddyRickover_18 Start: 17568, Stop: 20105, Start Num: 100

Candidate Starts for DaddyRickover_18:

(96, 17556), (Start: 100 @17568 has 238 MA's), (113, 17589), (Start: 125 @17610 has 1 MA's), (142, 17649), (188, 17718), (194, 17727), (196, 17730), (204, 17748), (233, 17796), (257, 17844), (307, 17955), (308, 17958), (330, 18003), (357, 18081), (362, 18105), (380, 18171), (392, 18216), (404, 18246), (407, 18252), (416, 18270), (428, 18294), (432, 18303), (456, 18336), (461, 18342), (479, 18372), (495, 18411), (498, 18423), (501, 18432), (507, 18447), (508, 18450), (548, 18561), (549, 18564), (550, 18573), (551, 18579), (554, 18594), (555, 18597), (561, 18618), (573, 18648), (576, 18660), (585, 18693), (610, 18804), (611, 18807), (621, 18834), (623, 18840), (636, 18894), (637, 18897), (677, 18999), (681, 19011), (682, 19014), (697, 19080), (702, 19104), (705, 19125), (707, 19134), (724, 19194), (725, 19197), (734, 19233), (737, 19251), (745, 19272), (751, 19299), (776, 19368), (780, 19386), (784, 19395), (786, 19407), (797, 19443), (809, 19494), (814, 19512), (823, 19554), (833, 19608), (858, 19710), (896, 19845), (900, 19869), (908, 19923), (918, 19992), (925, 20037), (926, 20040),

Gene: Daenerys_18 Start: 17400, Stop: 19937, Start Num: 100

Candidate Starts for Daenerys_18:

(96, 17388), (Start: 100 @17400 has 238 MA's), (113, 17421), (Start: 125 @17442 has 1 MA's), (142, 17481), (188, 17550), (194, 17559), (196, 17562), (204, 17580), (233, 17628), (257, 17676), (307, 17787), (308, 17790), (330, 17835), (357, 17913), (362, 17937), (380, 18003), (392, 18048), (404, 18078), (407, 18084), (416, 18102), (428, 18126), (432, 18135), (456, 18168), (461, 18174), (479, 18204), (495, 18243), (498, 18255), (501, 18264), (507, 18279), (508, 18282), (548, 18393), (549, 18396), (550, 18405), (551, 18411), (554, 18426), (555, 18429), (561, 18450), (573, 18480), (576, 18492), (585, 18525), (610, 18636), (611, 18639), (621, 18666), (623, 18672), (636, 18726), (637,

18729), (677, 18831), (681, 18843), (682, 18846), (697, 18912), (702, 18936), (705, 18957), (707, 18966), (724, 19026), (725, 19029), (734, 19065), (737, 19083), (745, 19104), (751, 19131), (776, 19200), (780, 19218), (784, 19227), (786, 19239), (797, 19275), (809, 19326), (814, 19344), (823, 19386), (833, 19440), (858, 19542), (896, 19677), (900, 19701), (908, 19755), (918, 19824), (925, 19869), (926, 19872),

Gene: Daikon_24 Start: 22021, Stop: 24417, Start Num: 148

Candidate Starts for Daikon_24:

(Start: 148 @22021 has 132 MA's), (248, 22198), (259, 22219), (342, 22366), (382, 22507), (391, 22540), (404, 22573), (420, 22609), (479, 22702), (501, 22762), (508, 22780), (556, 22936), (566, 22957), (594, 23077), (598, 23089), (610, 23134), (677, 23329), (682, 23344), (691, 23389), (695, 23404), (734, 23560), (737, 23578), (740, 23587), (780, 23716), (781, 23719), (832, 23929), (834, 23941), (871, 24055), (912, 24271), (926, 24355), (931, 24379), (933, 24388),

Gene: Dalmuri_27 Start: 20912, Stop: 23344, Start Num: 151

Candidate Starts for Dalmuri_27:

(Start: 151 @20912 has 97 MA's), (214, 21011), (339, 21272), (346, 21293), (416, 21500), (431, 21533), (439, 21563), (473, 21635), (482, 21659), (548, 21857), (556, 21902), (561, 21914), (565, 21923), (577, 21974), (619, 22154), (624, 22169), (641, 22238), (646, 22250), (670, 22313), (682, 22355), (691, 22394), (692, 22400), (695, 22409), (700, 22430), (715, 22490), (745, 22607), (755, 22649), (783, 22721), (785, 22730), (792, 22751), (808, 22823), (813, 22844), (833, 22940), (872, 23087), (894, 23168), (912, 23315),

Gene: Damien_29 Start: 25682, Stop: 28525, Start Num: 36

Candidate Starts for Damien_29:

(Start: 36 @25682 has 10 MA's), (65, 25814), (67, 25826), (68, 25835), (83, 25904), (85, 25910), (124, 25970), (131, 25991), (154, 26039), (173, 26081), (190, 26105), (208, 26138), (227, 26174), (234, 26186), (280, 26279), (303, 26336), (323, 26375), (366, 26501), (382, 26570), (390, 26600), (407, 26642), (432, 26693), (484, 26783), (495, 26801), (520, 26882), (538, 26921), (545, 26942), (585, 27080), (591, 27119), (609, 27182), (637, 27284), (705, 27509), (805, 27872), (812, 27899), (866, 28142), (877, 28175), (882, 28199), (906, 28319), (919, 28397), (935, 28484), (938, 28499), (939, 28505),

Gene: DanSyl44_29 Start: 22286, Stop: 25030, Start Num: 72

Candidate Starts for DanSyl44_29:

(Start: 72 @22286 has 3 MA's), (110, 22376), (121, 22397), (134, 22421), (135, 22427), (144, 22445), (175, 22511), (221, 22601), (224, 22610), (226, 22613), (236, 22634), (242, 22646), (255, 22679), (301, 22814), (319, 22862), (326, 22877), (333, 22898), (338, 22916), (347, 22940), (352, 22955), (355, 22964), (362, 22991), (370, 22997), (381, 23042), (392, 23066), (397, 23078), (400, 23087), (403, 23093), (408, 23102), (420, 23129), (430, 23147), (464, 23240), (470, 23252), (475, 23261), (513, 23351), (518, 23372), (526, 23390), (539, 23423), (544, 23447), (546, 23450), (556, 23501), (572, 23537), (575, 23561), (583, 23597), (586, 23606), (588, 23621), (592, 23648), (599, 23678), (607, 23714), (611, 23732), (612, 23735), (616, 23744), (652, 23870), (663, 23894), (673, 23933), (699, 24050), (704, 24077), (722, 24140), (724, 24146), (726, 24161), (737, 24203), (765, 24290), (784, 24347), (788, 24365), (796, 24395), (798, 24407), (801, 24419), (825, 24527), (827, 24542), (833, 24575), (837, 24596), (853, 24662), (860, 24692), (863, 24698), (878, 24758), (884, 24776), (900, 24851), (903, 24872), (908, 24908), (923, 25022),

Gene: Dante_18 Start: 17416, Stop: 19953, Start Num: 100

Candidate Starts for Dante_18:

(96, 17404), (Start: 100 @17416 has 238 MA's), (113, 17437), (Start: 125 @17458 has 1 MA's), (142, 17497), (188, 17566), (194, 17575), (196, 17578), (204, 17596), (222, 17629), (233, 17644), (257, 17692), (303, 17797), (307, 17803), (308, 17806), (329, 17848), (330, 17851), (357, 17929), (362,

17953), (380, 18019), (392, 18064), (404, 18094), (407, 18100), (416, 18118), (428, 18142), (432, 18151), (456, 18184), (461, 18190), (479, 18220), (495, 18259), (498, 18271), (501, 18280), (507, 18295), (508, 18298), (548, 18409), (549, 18412), (550, 18421), (551, 18427), (554, 18442), (555, 18445), (561, 18466), (573, 18496), (585, 18541), (610, 18652), (611, 18655), (621, 18682), (623, 18688), (636, 18742), (637, 18745), (677, 18847), (681, 18859), (682, 18862), (697, 18928), (702, 18952), (705, 18973), (707, 18982), (724, 19042), (725, 19045), (734, 19081), (737, 19099), (743, 19111), (745, 19120), (751, 19147), (776, 19216), (780, 19234), (784, 19243), (786, 19255), (797, 19291), (804, 19321), (809, 19342), (816, 19366), (823, 19402), (833, 19456), (849, 19516), (858, 19558), (880, 19636), (896, 19693), (900, 19717), (908, 19771), (912, 19819), (922, 19861), (925, 19885), (926, 19888),

Gene: DartGoblin_27 Start: 20819, Stop: 23251, Start Num: 151

Candidate Starts for DartGoblin_27:

(141, 20801), (Start: 151 @20819 has 97 MA's), (171, 20867), (214, 20918), (339, 21179), (346, 21200), (431, 21440), (439, 21470), (440, 21473), (482, 21566), (488, 21578), (498, 21611), (548, 21764), (561, 21821), (565, 21830), (577, 21881), (619, 22061), (624, 22076), (641, 22145), (646, 22157), (664, 22193), (670, 22220), (682, 22262), (691, 22301), (692, 22307), (695, 22316), (700, 22337), (715, 22397), (724, 22430), (726, 22445), (745, 22514), (755, 22556), (783, 22628), (785, 22637), (792, 22658), (808, 22730), (833, 22847), (872, 22994), (894, 23075), (904, 23150), (912, 23222),

Gene: DeadP_18 Start: 17430, Stop: 19967, Start Num: 100

Candidate Starts for DeadP_18:

(96, 17418), (Start: 100 @17430 has 238 MA's), (113, 17451), (Start: 125 @17472 has 1 MA's), (142, 17511), (188, 17580), (194, 17589), (196, 17592), (204, 17610), (222, 17643), (233, 17658), (257, 17706), (303, 17811), (307, 17817), (308, 17820), (329, 17862), (330, 17865), (357, 17943), (380, 18033), (392, 18078), (404, 18108), (407, 18114), (416, 18132), (428, 18156), (432, 18165), (456, 18198), (461, 18204), (479, 18234), (495, 18273), (498, 18285), (501, 18294), (507, 18309), (508, 18312), (548, 18423), (549, 18426), (550, 18435), (551, 18441), (554, 18456), (555, 18459), (561, 18480), (573, 18510), (576, 18522), (585, 18555), (610, 18666), (611, 18669), (621, 18696), (623, 18702), (636, 18756), (637, 18759), (674, 18846), (677, 18861), (681, 18873), (682, 18876), (697, 18942), (702, 18966), (705, 18987), (707, 18996), (724, 19056), (725, 19059), (734, 19095), (737, 19113), (743, 19125), (745, 19134), (751, 19161), (776, 19230), (780, 19248), (784, 19257), (786, 19269), (797, 19305), (804, 19335), (809, 19356), (816, 19380), (823, 19416), (833, 19470), (849, 19530), (858, 19572), (896, 19707), (900, 19731), (908, 19785), (912, 19833), (922, 19875), (925, 19899), (926, 19902),

Gene: Deb65_18 Start: 17397, Stop: 19934, Start Num: 100

Candidate Starts for Deb65_18:

(Start: 100 @17397 has 238 MA's), (113, 17418), (Start: 125 @17439 has 1 MA's), (142, 17478), (188, 17547), (194, 17556), (196, 17559), (204, 17577), (233, 17625), (257, 17673), (307, 17784), (308, 17787), (330, 17832), (357, 17910), (362, 17934), (380, 18000), (404, 18075), (407, 18081), (416, 18099), (428, 18123), (432, 18132), (456, 18165), (461, 18171), (479, 18201), (488, 18222), (498, 18252), (501, 18261), (540, 18369), (545, 18381), (548, 18390), (549, 18393), (551, 18408), (554, 18423), (555, 18426), (561, 18447), (576, 18489), (585, 18522), (610, 18633), (611, 18636), (621, 18663), (623, 18669), (636, 18723), (637, 18726), (652, 18753), (677, 18828), (681, 18840), (682, 18843), (697, 18909), (701, 18930), (702, 18933), (705, 18954), (707, 18963), (719, 19005), (724, 19023), (725, 19026), (732, 19056), (737, 19080), (743, 19092), (745, 19101), (776, 19197), (780, 19215), (784, 19224), (786, 19236), (797, 19272), (804, 19302), (807, 19311), (809, 19323), (823, 19383), (833, 19437), (849, 19497), (858, 19539), (896, 19674), (900, 19698), (908, 19752), (912, 19800), (922, 19842), (925, 19866), (926, 19869),

Gene: Deby_27 Start: 20846, Stop: 23278, Start Num: 151

Candidate Starts for Deby_27:

(Start: 151 @20846 has 97 MA's), (214, 20945), (339, 21206), (346, 21227), (416, 21434), (431, 21467), (439, 21497), (473, 21569), (482, 21593), (548, 21791), (556, 21836), (561, 21848), (565, 21857), (577, 21908), (619, 22088), (624, 22103), (641, 22172), (646, 22184), (670, 22247), (682, 22289), (691, 22328), (692, 22334), (695, 22343), (700, 22364), (715, 22424), (724, 22457), (726, 22472), (727, 22475), (742, 22529), (745, 22541), (783, 22655), (785, 22664), (792, 22685), (808, 22757), (813, 22778), (833, 22874), (894, 23102), (912, 23249),

Gene: Delton_30 Start: 24328, Stop: 26598, Start Num: 291

Candidate Starts for Delton_30:

(Start: 291 @24328 has 22 MA's), (340, 24463), (344, 24472), (392, 24646), (394, 24652), (399, 24664), (465, 24817), (474, 24832), (482, 24847), (594, 25228), (595, 25234), (608, 25279), (631, 25366), (694, 25567), (696, 25573), (705, 25621), (710, 25651), (717, 25675), (764, 25864), (775, 25891), (789, 25939), (806, 26011), (816, 26050), (818, 26071), (821, 26086), (825, 26104), (829, 26134), (850, 26218), (907, 26419), (912, 26461), (937, 26587),

Gene: Demsculpinboyz_24 Start: 17086, Stop: 19635, Start Num: 80

Candidate Starts for Demsculpinboyz_24:

(77, 17077), (Start: 80 @17086 has 7 MA's), (Start: 100 @17146 has 238 MA's), (119, 17179), (122, 17182), (Start: 159 @17251 has 1 MA's), (177, 17281), (285, 17461), (290, 17476), (308, 17512), (309, 17518), (327, 17539), (335, 17563), (345, 17587), (389, 17734), (392, 17743), (404, 17767), (416, 17791), (428, 17815), (431, 17821), (442, 17842), (461, 17863), (479, 17893), (490, 17923), (498, 17944), (531, 18037), (538, 18052), (540, 18061), (543, 18070), (548, 18082), (549, 18085), (573, 18169), (574, 18172), (576, 18181), (583, 18208), (586, 18217), (592, 18256), (596, 18277), (598, 18280), (609, 18316), (614, 18337), (636, 18415), (637, 18418), (681, 18532), (700, 18619), (702, 18625), (705, 18646), (716, 18682), (729, 18736), (732, 18745), (750, 18823), (755, 18841), (769, 18877), (770, 18880), (776, 18898), (780, 18916), (797, 18973), (799, 18985), (816, 19048), (823, 19081), (840, 19168), (852, 19216), (857, 19240), (871, 19276), (879, 19315), (890, 19354), (896, 19378), (899, 19399), (912, 19495), (918, 19516), (927, 19576), (929, 19579), (933, 19606),

Gene: Devera_27 Start: 20893, Stop: 23325, Start Num: 151

Candidate Starts for Devera_27:

(Start: 151 @20893 has 97 MA's), (171, 20941), (214, 20992), (339, 21253), (346, 21274), (416, 21481), (431, 21514), (439, 21544), (473, 21616), (482, 21640), (498, 21685), (548, 21838), (561, 21895), (565, 21904), (574, 21940), (577, 21955), (619, 22135), (624, 22150), (641, 22219), (646, 22231), (670, 22294), (682, 22336), (691, 22375), (692, 22381), (695, 22390), (700, 22411), (715, 22471), (726, 22519), (742, 22576), (745, 22588), (755, 22630), (783, 22702), (785, 22711), (808, 22804), (813, 22825), (833, 22921), (846, 22975), (872, 23068), (894, 23149), (912, 23296),

Gene: DillTech15_18 Start: 17434, Stop: 19971, Start Num: 100

Candidate Starts for DillTech15_18:

(Start: 100 @17434 has 238 MA's), (113, 17455), (Start: 125 @17476 has 1 MA's), (142, 17515), (188, 17584), (194, 17593), (196, 17596), (204, 17614), (222, 17647), (233, 17662), (303, 17815), (308, 17824), (330, 17869), (361, 17968), (362, 17971), (380, 18037), (392, 18082), (404, 18112), (407, 18118), (416, 18136), (428, 18160), (431, 18166), (432, 18169), (456, 18202), (461, 18208), (479, 18238), (495, 18277), (498, 18289), (501, 18298), (507, 18313), (508, 18316), (548, 18427), (549, 18430), (550, 18439), (551, 18445), (554, 18460), (555, 18463), (561, 18484), (573, 18514), (576, 18526), (585, 18559), (610, 18670), (611, 18673), (621, 18700), (623, 18706), (636, 18760), (637, 18763), (674, 18850), (677, 18865), (681, 18877), (682, 18880), (697, 18946), (702, 18970), (705, 18991), (707, 19000), (724, 19060), (725, 19063), (734, 19099), (737, 19117), (743, 19129), (745, 19138), (751, 19165), (776, 19234), (780, 19252), (784, 19261), (786, 19273), (797, 19309), (804, 19339), (807, 19348), (809, 19360), (816, 19384), (823, 19420), (833, 19474), (849, 19534), (858, 19576), (896, 19711), (900, 19735), (908, 19789), (912, 19837), (922, 19879), (925, 19903), (926,

19906),

Gene: DirkDirk_20 Start: 18980, Stop: 21661, Start Num: 79

Candidate Starts for DirkDirk_20:

(Start: 79 @18980 has 19 MA's), (81, 18986), (164, 19163), (182, 19193), (215, 19256), (249, 19331), (304, 19445), (306, 19451), (333, 19517), (354, 19580), (363, 19613), (365, 19616), (372, 19640), (378, 19664), (380, 19670), (381, 19676), (395, 19724), (404, 19745), (412, 19760), (421, 19781), (437, 19820), (442, 19832), (450, 19850), (488, 19925), (497, 19955), (506, 19979), (507, 19982), (525, 20027), (542, 20078), (549, 20096), (561, 20150), (579, 20222), (583, 20234), (586, 20243), (589, 20261), (592, 20285), (599, 20315), (607, 20351), (617, 20384), (618, 20390), (635, 20456), (662, 20522), (673, 20561), (691, 20642), (699, 20678), (701, 20684), (726, 20789), (729, 20798), (734, 20813), (737, 20831), (750, 20873), (782, 20969), (784, 20975), (797, 21029), (798, 21035), (801, 21047), (826, 21158), (830, 21188), (831, 21194), (853, 21290), (855, 21296), (860, 21320), (863, 21326), (864, 21332), (877, 21377), (878, 21386), (881, 21395), (893, 21434), (898, 21470), (900, 21479), (901, 21494), (913, 21590), (921, 21641), (922, 21647),

Gene: DirtMcgirt_19 Start: 17221, Stop: 19758, Start Num: 100

Candidate Starts for DirtMcgirt_19:

(96, 17209), (Start: 100 @17221 has 238 MA's), (113, 17242), (Start: 125 @17263 has 1 MA's), (142, 17302), (188, 17371), (194, 17380), (196, 17383), (204, 17401), (222, 17434), (233, 17449), (257, 17497), (303, 17602), (308, 17611), (329, 17653), (330, 17656), (357, 17734), (362, 17758), (380, 17824), (392, 17869), (404, 17899), (407, 17905), (416, 17923), (428, 17947), (432, 17956), (456, 17989), (461, 17995), (479, 18025), (495, 18064), (498, 18076), (501, 18085), (507, 18100), (508, 18103), (548, 18214), (550, 18226), (551, 18232), (554, 18247), (555, 18250), (561, 18271), (573, 18301), (576, 18313), (585, 18346), (610, 18457), (611, 18460), (621, 18487), (623, 18493), (636, 18547), (637, 18550), (652, 18577), (677, 18652), (681, 18664), (682, 18667), (697, 18733), (702, 18757), (707, 18787), (719, 18829), (724, 18847), (725, 18850), (734, 18886), (737, 18904), (745, 18925), (751, 18952), (776, 19021), (780, 19039), (784, 19048), (786, 19060), (797, 19096), (804, 19126), (807, 19135), (809, 19147), (823, 19207), (833, 19261), (849, 19321), (858, 19363), (880, 19441), (896, 19498), (900, 19522), (908, 19576), (912, 19624), (922, 19666), (925, 19690), (926, 19693),

Gene: DmpstrDiver_37 Start: 30383, Stop: 32890, Start Num: 100

Candidate Starts for DmpstrDiver_37:

(82, 30326), (Start: 100 @30383 has 238 MA's), (204, 30578), (222, 30614), (233, 30629), (257, 30677), (290, 30731), (308, 30767), (309, 30773), (311, 30776), (327, 30794), (330, 30806), (335, 30818), (346, 30845), (376, 30950), (389, 30989), (392, 30998), (404, 31022), (407, 31028), (416, 31046), (424, 31064), (432, 31079), (436, 31088), (442, 31097), (456, 31112), (473, 31139), (479, 31148), (495, 31187), (498, 31199), (501, 31208), (531, 31292), (555, 31373), (566, 31403), (567, 31406), (576, 31436), (583, 31463), (586, 31472), (594, 31523), (596, 31532), (598, 31535), (609, 31571), (614, 31592), (626, 31628), (679, 31781), (691, 31835), (702, 31880), (704, 31898), (705, 31901), (716, 31940), (750, 32087), (752, 32096), (777, 32165), (780, 32180), (823, 32345), (840, 32432), (852, 32480), (871, 32531), (890, 32609), (927, 32831), (929, 32834), (933, 32861),

Gene: DoRead_18 Start: 17366, Stop: 19891, Start Num: 100

Candidate Starts for DoRead_18:

(Start: 100 @17366 has 238 MA's), (113, 17387), (Start: 151 @17456 has 97 MA's), (188, 17516), (194, 17525), (196, 17528), (204, 17546), (233, 17594), (257, 17642), (307, 17753), (308, 17756), (318, 17777), (326, 17789), (330, 17801), (357, 17879), (373, 17945), (382, 17978), (399, 18032), (404, 18044), (428, 18092), (431, 18098), (432, 18101), (436, 18110), (462, 18143), (486, 18182), (488, 18185), (493, 18200), (504, 18230), (506, 18236), (507, 18239), (508, 18242), (517, 18269), (522, 18287), (523, 18290), (543, 18341), (545, 18344), (550, 18365), (551, 18371), (552, 18374), (554, 18386), (555, 18389), (564, 18416), (573, 18440), (576, 18452), (594, 18539), (611, 18602),

(614, 18611), (622, 18635), (664, 18740), (665, 18743), (677, 18794), (679, 18800), (681, 18806), (682, 18809), (691, 18854), (695, 18869), (701, 18896), (705, 18920), (707, 18929), (724, 18989), (725, 18992), (726, 19004), (737, 19046), (743, 19058), (752, 19100), (798, 19244), (814, 19307), (828, 19382), (885, 19583), (921, 19793), (928, 19832), (929, 19835),

Gene: DocMcStuffins_19 Start: 17271, Stop: 19796, Start Num: 100

Candidate Starts for DocMcStuffins_19:

(Start: 100 @17271 has 238 MA's), (113, 17292), (Start: 125 @17313 has 1 MA's), (142, 17352), (188, 17421), (194, 17430), (196, 17433), (204, 17451), (222, 17484), (233, 17499), (257, 17547), (307, 17658), (308, 17661), (330, 17706), (357, 17784), (362, 17808), (380, 17874), (382, 17883), (404, 17949), (407, 17955), (416, 17973), (428, 17997), (431, 18003), (432, 18006), (456, 18039), (461, 18045), (479, 18075), (488, 18096), (501, 18135), (507, 18150), (509, 18156), (555, 18300), (573, 18351), (597, 18462), (611, 18513), (620, 18537), (652, 18630), (669, 18675), (672, 18684), (677, 18705), (681, 18717), (682, 18720), (691, 18765), (702, 18810), (704, 18828), (705, 18831), (719, 18882), (732, 18933), (734, 18939), (737, 18957), (743, 18969), (745, 18978), (752, 19011), (780, 19092), (799, 19161), (807, 19188), (813, 19215), (825, 19266), (833, 19314), (899, 19557), (912, 19662), (918, 19683), (928, 19737), (932, 19761),

Gene: DoctorDiddles_26 Start: 21446, Stop: 23842, Start Num: 148

Candidate Starts for DoctorDiddles_26:

(Start: 148 @21446 has 132 MA's), (248, 21623), (259, 21644), (342, 21791), (391, 21965), (404, 21998), (420, 22034), (479, 22127), (501, 22187), (508, 22205), (552, 22337), (566, 22382), (598, 22514), (610, 22559), (630, 22619), (672, 22733), (677, 22754), (688, 22793), (691, 22814), (695, 22829), (732, 22979), (734, 22985), (737, 23003), (752, 23057), (780, 23141), (807, 23234), (871, 23480), (912, 23696), (926, 23780), (933, 23813),

Gene: Dole_27 Start: 20895, Stop: 23327, Start Num: 151

Candidate Starts for Dole_27:

(Start: 151 @20895 has 97 MA's), (171, 20943), (214, 20994), (339, 21255), (346, 21276), (416, 21483), (431, 21516), (439, 21546), (473, 21618), (482, 21642), (498, 21687), (548, 21840), (561, 21897), (565, 21906), (574, 21942), (577, 21957), (619, 22137), (624, 22152), (641, 22221), (646, 22233), (670, 22296), (682, 22338), (691, 22377), (692, 22383), (695, 22392), (700, 22413), (715, 22473), (726, 22521), (742, 22578), (745, 22590), (755, 22632), (783, 22704), (785, 22713), (808, 22806), (813, 22827), (833, 22923), (846, 22977), (872, 23070), (894, 23151), (912, 23298),

Gene: Donkeykong_18 Start: 17574, Stop: 20111, Start Num: 100

Candidate Starts for Donkeykong_18:

(96, 17562), (Start: 100 @17574 has 238 MA's), (113, 17595), (Start: 125 @17616 has 1 MA's), (142, 17655), (188, 17724), (194, 17733), (196, 17736), (204, 17754), (222, 17787), (233, 17802), (257, 17850), (307, 17961), (308, 17964), (325, 17994), (329, 18006), (330, 18009), (357, 18087), (362, 18111), (380, 18177), (392, 18222), (404, 18252), (407, 18258), (416, 18276), (428, 18300), (432, 18309), (456, 18342), (461, 18348), (479, 18378), (495, 18417), (498, 18429), (501, 18438), (507, 18453), (508, 18456), (548, 18567), (549, 18570), (550, 18579), (551, 18585), (554, 18600), (555, 18603), (561, 18624), (573, 18654), (576, 18666), (585, 18699), (598, 18765), (610, 18810), (611, 18813), (621, 18840), (623, 18846), (636, 18900), (637, 18903), (677, 19005), (681, 19017), (682, 19020), (697, 19086), (702, 19110), (705, 19131), (707, 19140), (724, 19200), (725, 19203), (734, 19239), (737, 19257), (743, 19269), (745, 19278), (751, 19305), (776, 19374), (780, 19392), (784, 19401), (786, 19413), (797, 19449), (804, 19479), (809, 19500), (816, 19524), (823, 19560), (833, 19614), (849, 19674), (858, 19716), (880, 19794), (896, 19851), (900, 19875), (908, 19929), (912, 19977), (922, 20019), (925, 20043), (926, 20046),

Gene: Doomphist_18 Start: 17534, Stop: 20071, Start Num: 100

Candidate Starts for Doomphist_18:

(Start: 100 @17534 has 238 MA's), (113, 17555), (Start: 125 @17576 has 1 MA's), (142, 17615), (188, 17684), (194, 17693), (196, 17696), (204, 17714), (233, 17762), (307, 17921), (308, 17924), (330, 17969), (357, 18047), (362, 18071), (380, 18137), (404, 18212), (407, 18218), (416, 18236), (428, 18260), (431, 18266), (432, 18269), (456, 18302), (461, 18308), (479, 18338), (488, 18359), (498, 18389), (501, 18398), (540, 18506), (545, 18518), (548, 18527), (549, 18530), (551, 18545), (554, 18560), (555, 18563), (561, 18584), (576, 18626), (585, 18659), (610, 18770), (611, 18773), (621, 18800), (623, 18806), (636, 18860), (637, 18863), (652, 18890), (677, 18965), (681, 18977), (682, 18980), (697, 19046), (701, 19067), (702, 19070), (705, 19091), (707, 19100), (724, 19160), (725, 19163), (734, 19199), (737, 19217), (743, 19229), (745, 19238), (751, 19265), (773, 19322), (776, 19334), (780, 19352), (784, 19361), (786, 19373), (797, 19409), (804, 19439), (807, 19448), (809, 19460), (823, 19520), (833, 19574), (849, 19634), (858, 19676), (896, 19811), (900, 19835), (908, 19889), (912, 19937), (922, 19979), (925, 20003), (926, 20006),

Gene: Doomslug_20 Start: 17255, Stop: 19792, Start Num: 100

Candidate Starts for Doomslug_20:

(96, 17243), (Start: 100 @17255 has 238 MA's), (113, 17276), (Start: 125 @17297 has 1 MA's), (142, 17336), (188, 17405), (194, 17414), (196, 17417), (204, 17435), (222, 17468), (233, 17483), (257, 17531), (307, 17642), (308, 17645), (325, 17675), (329, 17687), (330, 17690), (357, 17768), (362, 17792), (380, 17858), (392, 17903), (404, 17933), (407, 17939), (416, 17957), (428, 17981), (432, 17990), (456, 18023), (461, 18029), (479, 18059), (495, 18098), (498, 18110), (501, 18119), (507, 18134), (508, 18137), (548, 18248), (549, 18251), (550, 18260), (551, 18266), (554, 18281), (555, 18284), (561, 18305), (573, 18335), (576, 18347), (585, 18380), (610, 18491), (611, 18494), (621, 18521), (623, 18527), (636, 18581), (637, 18584), (674, 18671), (677, 18686), (681, 18698), (682, 18701), (697, 18767), (702, 18791), (705, 18812), (707, 18821), (724, 18881), (725, 18884), (734, 18920), (737, 18938), (743, 18950), (745, 18959), (751, 18986), (776, 19055), (780, 19073), (784, 19082), (786, 19094), (797, 19130), (804, 19160), (809, 19181), (816, 19205), (823, 19241), (833, 19295), (849, 19355), (858, 19397), (880, 19475), (896, 19532), (900, 19556), (908, 19610), (912, 19658), (922, 19700), (925, 19724), (926, 19727),

Gene: Dorothy_18 Start: 17358, Stop: 19895, Start Num: 100

Candidate Starts for Dorothy_18:

(96, 17346), (Start: 100 @17358 has 238 MA's), (113, 17379), (Start: 125 @17400 has 1 MA's), (142, 17439), (188, 17508), (194, 17517), (196, 17520), (204, 17538), (233, 17586), (257, 17634), (307, 17745), (308, 17748), (330, 17793), (357, 17871), (362, 17895), (380, 17961), (392, 18006), (404, 18036), (407, 18042), (416, 18060), (428, 18084), (432, 18093), (456, 18126), (461, 18132), (479, 18162), (495, 18201), (498, 18213), (501, 18222), (507, 18237), (508, 18240), (548, 18351), (549, 18354), (550, 18363), (551, 18369), (554, 18384), (555, 18387), (561, 18408), (573, 18438), (576, 18450), (585, 18483), (610, 18594), (611, 18597), (621, 18624), (623, 18630), (636, 18684), (637, 18687), (677, 18789), (681, 18801), (682, 18804), (697, 18870), (702, 18894), (705, 18915), (707, 18924), (724, 18984), (725, 18987), (734, 19023), (737, 19041), (745, 19062), (751, 19089), (776, 19158), (780, 19176), (784, 19185), (786, 19197), (797, 19233), (809, 19284), (814, 19302), (823, 19344), (833, 19398), (858, 19500), (896, 19635), (900, 19659), (908, 19713), (918, 19782), (925, 19827), (926, 19830),

Gene: DosHalletts_19 Start: 17327, Stop: 19879, Start Num: 100

Candidate Starts for DosHalletts_19:

(Start: 100 @17327 has 238 MA's), (Start: 151 @17417 has 97 MA's), (188, 17477), (194, 17486), (196, 17489), (204, 17507), (233, 17555), (256, 17600), (307, 17714), (308, 17717), (314, 17729), (326, 17750), (329, 17759), (330, 17762), (357, 17840), (373, 17906), (382, 17939), (392, 17975), (402, 17999), (431, 18059), (432, 18062), (442, 18080), (486, 18143), (488, 18146), (495, 18164), (501, 18185), (508, 18203), (517, 18230), (523, 18251), (538, 18284), (550, 18326), (551, 18332), (552, 18335), (555, 18350), (564, 18377), (566, 18380), (573, 18401), (576, 18413), (585, 18446), (606, 18539), (636, 18647), (643, 18671), (652, 18677), (663, 18695), (664, 18698), (669, 18722),

(677, 18752), (685, 18776), (691, 18812), (692, 18818), (695, 18827), (701, 18854), (713, 18917), (719, 18941), (720, 18956), (732, 18998), (746, 19049), (777, 19145), (780, 19160), (784, 19169), (791, 19193), (807, 19256), (816, 19292), (892, 19598), (900, 19643), (912, 19745),

Gene: DotProduct_18 Start: 17408, Stop: 19939, Start Num: 100

Candidate Starts for DotProduct_18:

(96, 17396), (Start: 100 @17408 has 238 MA's), (113, 17429), (Start: 125 @17450 has 1 MA's), (142, 17489), (188, 17558), (194, 17567), (196, 17570), (204, 17588), (222, 17621), (233, 17636), (257, 17678), (307, 17789), (308, 17792), (327, 17825), (329, 17834), (330, 17837), (357, 17915), (380, 18005), (392, 18050), (404, 18080), (407, 18086), (416, 18104), (428, 18128), (432, 18137), (456, 18170), (461, 18176), (479, 18206), (498, 18257), (501, 18266), (507, 18281), (508, 18284), (548, 18395), (549, 18398), (550, 18407), (551, 18413), (554, 18428), (555, 18431), (561, 18452), (573, 18482), (576, 18494), (585, 18527), (610, 18638), (611, 18641), (623, 18674), (636, 18728), (637, 18731), (677, 18833), (681, 18845), (682, 18848), (697, 18914), (702, 18938), (705, 18959), (707, 18968), (724, 19028), (725, 19031), (734, 19067), (737, 19085), (743, 19097), (745, 19106), (751, 19133), (776, 19202), (780, 19220), (784, 19229), (786, 19241), (797, 19277), (804, 19307), (809, 19328), (816, 19352), (823, 19388), (833, 19442), (849, 19502), (858, 19544), (880, 19622), (896, 19679), (900, 19703), (908, 19757), (912, 19805), (922, 19847), (925, 19871), (926, 19874),

Gene: Doug_19 Start: 17950, Stop: 20487, Start Num: 100

Candidate Starts for Doug_19:

(96, 17938), (Start: 100 @17950 has 238 MA's), (113, 17971), (Start: 125 @17992 has 1 MA's), (142, 18031), (188, 18100), (194, 18109), (196, 18112), (204, 18130), (222, 18163), (233, 18178), (257, 18226), (303, 18331), (307, 18337), (308, 18340), (329, 18382), (330, 18385), (357, 18463), (380, 18553), (392, 18598), (404, 18628), (407, 18634), (416, 18652), (428, 18676), (432, 18685), (456, 18718), (461, 18724), (479, 18754), (495, 18793), (498, 18805), (501, 18814), (507, 18829), (508, 18832), (548, 18943), (549, 18946), (550, 18955), (551, 18961), (554, 18976), (555, 18979), (561, 19000), (573, 19030), (576, 19042), (585, 19075), (598, 19141), (610, 19186), (611, 19189), (621, 19216), (623, 19222), (636, 19276), (637, 19279), (674, 19366), (677, 19381), (681, 19393), (682, 19396), (697, 19462), (702, 19486), (705, 19507), (707, 19516), (724, 19576), (725, 19579), (734, 19615), (737, 19633), (743, 19645), (745, 19654), (751, 19681), (776, 19750), (780, 19768), (784, 19777), (786, 19789), (797, 19825), (804, 19855), (809, 19876), (816, 19900), (823, 19936), (833, 19990), (849, 20050), (858, 20092), (880, 20170), (896, 20227), (900, 20251), (908, 20305), (912, 20353), (925, 20419), (926, 20422),

Gene: DrDrey_27 Start: 22776, Stop: 25172, Start Num: 148

Candidate Starts for DrDrey_27:

(Start: 148 @22776 has 132 MA's), (248, 22953), (259, 22974), (342, 23121), (391, 23295), (404, 23328), (420, 23364), (479, 23457), (501, 23517), (508, 23535), (552, 23667), (566, 23712), (598, 23844), (610, 23889), (630, 23949), (672, 24063), (677, 24084), (688, 24123), (691, 24144), (695, 24159), (732, 24309), (734, 24315), (737, 24333), (752, 24387), (780, 24471), (807, 24564), (871, 24810), (912, 25026), (926, 25110), (933, 25143),

Gene: DrHayes_27 Start: 20840, Stop: 23272, Start Num: 151

Candidate Starts for DrHayes_27:

(141, 20822), (Start: 151 @20840 has 97 MA's), (171, 20888), (214, 20939), (339, 21200), (346, 21221), (429, 21458), (431, 21461), (439, 21491), (440, 21494), (473, 21563), (482, 21587), (483, 21593), (488, 21599), (498, 21632), (548, 21785), (561, 21842), (565, 21851), (577, 21902), (619, 22082), (624, 22097), (641, 22166), (646, 22178), (664, 22214), (670, 22241), (682, 22283), (691, 22322), (692, 22328), (695, 22337), (700, 22358), (715, 22418), (724, 22451), (727, 22469), (745, 22535), (755, 22577), (783, 22649), (785, 22658), (792, 22679), (808, 22751), (833, 22868), (872, 23015), (894, 23096), (904, 23171), (912, 23243),

Gene: DrLupo_38 Start: 27172, Stop: 30258, Start Num: 14

Candidate Starts for DrLupo_38:

(11, 27145), (Start: 14 @27172 has 2 MA's), (15, 27175), (24, 27325), (25, 27328), (31, 27403), (33, 27412), (34, 27415), (41, 27484), (48, 27520), (Start: 66 @27595 has 1 MA's), (84, 27682), (98, 27718), (99, 27727), (112, 27748), (139, 27817), (152, 27841), (168, 27883), (170, 27886), (190, 27916), (212, 27958), (235, 28009), (268, 28090), (274, 28102), (300, 28162), (308, 28183), (330, 28222), (358, 28303), (368, 28336), (414, 28468), (434, 28507), (443, 28531), (457, 28546), (498, 28648), (502, 28660), (506, 28672), (507, 28675), (566, 28852), (576, 28885), (582, 28909), (593, 28966), (642, 29152), (668, 29218), (682, 29266), (692, 29317), (698, 29341), (699, 29347), (719, 29419), (724, 29443), (726, 29458), (745, 29527), (868, 29998), (882, 30052), (909, 30196),

Gene: Drago_19 Start: 17219, Stop: 19756, Start Num: 100

Candidate Starts for Drago_19:

(96, 17207), (Start: 100 @17219 has 238 MA's), (113, 17240), (Start: 125 @17261 has 1 MA's), (142, 17300), (188, 17369), (194, 17378), (196, 17381), (204, 17399), (222, 17432), (233, 17447), (257, 17495), (303, 17600), (308, 17609), (329, 17651), (330, 17654), (357, 17732), (362, 17756), (380, 17822), (392, 17867), (404, 17897), (407, 17903), (416, 17921), (428, 17945), (432, 17954), (456, 17987), (461, 17993), (479, 18023), (495, 18062), (498, 18074), (501, 18083), (507, 18098), (508, 18101), (548, 18212), (550, 18224), (551, 18230), (554, 18245), (555, 18248), (561, 18269), (573, 18299), (576, 18311), (585, 18344), (598, 18410), (610, 18455), (611, 18458), (621, 18485), (623, 18491), (636, 18545), (637, 18548), (652, 18575), (677, 18650), (681, 18662), (682, 18665), (697, 18731), (702, 18755), (707, 18785), (719, 18827), (724, 18845), (725, 18848), (734, 18884), (737, 18902), (745, 18923), (751, 18950), (776, 19019), (780, 19037), (784, 19046), (786, 19058), (797, 19094), (804, 19124), (807, 19133), (809, 19145), (823, 19205), (833, 19259), (849, 19319), (858, 19361), (880, 19439), (896, 19496), (900, 19520), (908, 19574), (912, 19622), (922, 19664), (925, 19688), (926, 19691),

Gene: Duke13_36 Start: 29781, Stop: 32336, Start Num: 100

Candidate Starts for Duke13_36:

(81, 29724), (Start: 100 @29781 has 238 MA's), (204, 29976), (222, 30012), (233, 30027), (257, 30075), (307, 30186), (308, 30189), (330, 30234), (357, 30312), (362, 30336), (380, 30402), (392, 30447), (404, 30477), (407, 30483), (416, 30501), (428, 30525), (432, 30534), (456, 30567), (461, 30573), (479, 30603), (495, 30642), (498, 30654), (501, 30663), (507, 30678), (508, 30681), (548, 30792), (549, 30795), (550, 30804), (551, 30810), (554, 30825), (555, 30828), (561, 30849), (573, 30879), (576, 30891), (585, 30924), (610, 31035), (611, 31038), (621, 31065), (623, 31071), (636, 31125), (637, 31128), (677, 31230), (681, 31242), (682, 31245), (697, 31311), (702, 31335), (705, 31356), (707, 31365), (724, 31425), (725, 31428), (734, 31464), (737, 31482), (745, 31503), (751, 31530), (776, 31599), (780, 31617), (784, 31626), (786, 31638), (797, 31674), (809, 31725), (814, 31743), (823, 31785), (833, 31839), (858, 31941), (896, 32076), (900, 32100), (908, 32154), (918, 32223), (925, 32268), (926, 32271),

Gene: Dumbo_26 Start: 21751, Stop: 24147, Start Num: 148

Candidate Starts for Dumbo_26:

(Start: 148 @21751 has 132 MA's), (248, 21928), (259, 21949), (342, 22096), (391, 22270), (404, 22303), (420, 22339), (479, 22432), (501, 22492), (508, 22510), (552, 22642), (566, 22687), (598, 22819), (610, 22864), (630, 22924), (672, 23038), (677, 23059), (688, 23098), (691, 23119), (695, 23134), (732, 23284), (734, 23290), (737, 23308), (752, 23362), (780, 23446), (807, 23539), (871, 23785), (912, 24001), (926, 24085), (933, 24118),

Gene: Durfee_27 Start: 20912, Stop: 23344, Start Num: 151

Candidate Starts for Durfee_27:

(Start: 151 @20912 has 97 MA's), (214, 21011), (339, 21272), (346, 21293), (416, 21500), (431, 21533), (439, 21563), (473, 21635), (482, 21659), (548, 21857), (556, 21902), (561, 21914), (565,

21923), (577, 21974), (619, 22154), (624, 22169), (641, 22238), (646, 22250), (670, 22313), (682, 22355), (691, 22394), (692, 22400), (695, 22409), (700, 22430), (715, 22490), (745, 22607), (755, 22649), (783, 22721), (785, 22730), (792, 22751), (808, 22823), (813, 22844), (833, 22940), (872, 23087), (894, 23168), (912, 23315),

Gene: Dusk_25 Start: 21943, Stop: 24339, Start Num: 148

Candidate Starts for Dusk_25:

(Start: 148 @21943 has 132 MA's), (248, 22120), (259, 22141), (342, 22288), (382, 22429), (391, 22462), (404, 22495), (420, 22531), (479, 22624), (501, 22684), (508, 22702), (538, 22783), (598, 23011), (610, 23056), (677, 23251), (679, 23257), (682, 23266), (691, 23311), (695, 23326), (734, 23482), (737, 23500), (740, 23509), (755, 23563), (780, 23638), (781, 23641), (832, 23851), (834, 23863), (871, 23977), (912, 24193), (926, 24277), (931, 24301), (933, 24310),

Gene: Dylan_58 Start: 36190, Stop: 38700, Start Num: 114

Candidate Starts for Dylan_58:

(Start: 114 @36190 has 34 MA's), (128, 36223), (163, 36292), (165, 36295), (179, 36319), (196, 36343), (209, 36367), (222, 36400), (310, 36607), (315, 36619), (316, 36622), (368, 36769), (373, 36799), (380, 36823), (392, 36853), (393, 36856), (404, 36883), (416, 36907), (431, 36937), (468, 36994), (495, 37054), (498, 37066), (507, 37090), (508, 37093), (520, 37135), (554, 37231), (555, 37234), (627, 37489), (677, 37633), (691, 37693), (704, 37765), (705, 37768), (730, 37864), (780, 38038), (786, 38059), (812, 38152), (815, 38164), (833, 38254), (854, 38329), (879, 38374), (917, 38575), (924, 38629), (929, 38644),

Gene: Eaglehorse_32 Start: 30001, Stop: 32721, Start Num: 75

Candidate Starts for Eaglehorse_32:

(Start: 75 @30001 has 36 MA's), (94, 30055), (117, 30094), (138, 30139), (149, 30163), (152, 30166), (166, 30199), (225, 30307), (237, 30328), (238, 30331), (261, 30385), (288, 30445), (299, 30469), (313, 30505), (331, 30553), (336, 30574), (351, 30613), (362, 30652), (369, 30667), (381, 30721), (385, 30733), (392, 30757), (402, 30781), (408, 30793), (415, 30808), (422, 30823), (438, 30865), (446, 30883), (458, 30922), (470, 30946), (539, 31117), (556, 31195), (575, 31255), (583, 31291), (584, 31294), (599, 31372), (607, 31408), (613, 31432), (620, 31453), (673, 31624), (699, 31741), (704, 31768), (722, 31831), (724, 31837), (726, 31852), (737, 31894), (765, 31981), (776, 32008), (784, 32038), (788, 32056), (795, 32077), (796, 32086), (797, 32092), (798, 32098), (801, 32110), (824, 32215), (827, 32233), (833, 32266), (853, 32353), (860, 32383), (863, 32389), (878, 32449), (900, 32542), (901, 32557), (908, 32599), (923, 32713),

Gene: Easy2Say_28 Start: 23534, Stop: 25930, Start Num: 148

Candidate Starts for Easy2Say_28:

(Start: 148 @23534 has 132 MA's), (248, 23711), (259, 23732), (342, 23879), (382, 24020), (391, 24053), (404, 24086), (420, 24122), (479, 24215), (501, 24275), (508, 24293), (552, 24425), (566, 24470), (598, 24602), (610, 24647), (630, 24707), (672, 24821), (677, 24842), (688, 24881), (691, 24902), (695, 24917), (732, 25067), (734, 25073), (737, 25091), (752, 25145), (780, 25229), (807, 25322), (871, 25568), (912, 25784), (926, 25868), (933, 25901),

Gene: Efra2_27 Start: 20082, Stop: 22514, Start Num: 151

Candidate Starts for Efra2_27:

(Start: 151 @20082 has 97 MA's), (171, 20130), (174, 20133), (182, 20142), (339, 20442), (346, 20463), (431, 20703), (473, 20805), (482, 20829), (483, 20835), (498, 20874), (548, 21027), (561, 21084), (565, 21093), (577, 21144), (621, 21330), (624, 21339), (625, 21345), (636, 21390), (641, 21408), (670, 21483), (682, 21525), (691, 21564), (692, 21570), (695, 21579), (700, 21600), (709, 21648), (724, 21693), (726, 21708), (745, 21777), (755, 21819), (785, 21900), (808, 21993), (813, 22014), (833, 22110), (894, 22338), (901, 22392), (904, 22413), (912, 22485), (916, 22503),

Gene: Eish_18 Start: 17540, Stop: 20077, Start Num: 100

Candidate Starts for Eish_18:

(Start: 100 @17540 has 238 MA's), (113, 17561), (Start: 125 @17582 has 1 MA's), (142, 17621), (188, 17690), (194, 17699), (196, 17702), (204, 17720), (222, 17753), (233, 17768), (257, 17816), (303, 17921), (308, 17930), (330, 17975), (357, 18053), (362, 18077), (380, 18143), (404, 18218), (407, 18224), (416, 18242), (428, 18266), (431, 18272), (432, 18275), (456, 18308), (461, 18314), (479, 18344), (488, 18365), (498, 18395), (501, 18404), (540, 18512), (545, 18524), (548, 18533), (549, 18536), (550, 18545), (551, 18551), (554, 18566), (555, 18569), (561, 18590), (573, 18620), (576, 18632), (585, 18665), (586, 18668), (598, 18731), (621, 18806), (623, 18812), (636, 18866), (637, 18869), (652, 18896), (677, 18971), (681, 18983), (682, 18986), (697, 19052), (705, 19097), (707, 19106), (724, 19166), (725, 19169), (734, 19205), (737, 19223), (745, 19244), (776, 19340), (780, 19358), (784, 19367), (786, 19379), (797, 19415), (804, 19445), (823, 19526), (833, 19580), (858, 19682), (896, 19817), (900, 19841), (908, 19895), (912, 19943), (922, 19985), (925, 20009), (926, 20012),

Gene: EleanorGeorge_18 Start: 17568, Stop: 20105, Start Num: 100

Candidate Starts for EleanorGeorge_18:

(96, 17556), (Start: 100 @17568 has 238 MA's), (113, 17589), (Start: 125 @17610 has 1 MA's), (142, 17649), (188, 17718), (194, 17727), (196, 17730), (204, 17748), (222, 17781), (233, 17796), (257, 17844), (307, 17955), (308, 17958), (325, 17988), (329, 18000), (330, 18003), (357, 18081), (362, 18105), (380, 18171), (392, 18216), (404, 18246), (407, 18252), (416, 18270), (428, 18294), (432, 18303), (456, 18336), (461, 18342), (479, 18372), (495, 18411), (498, 18423), (501, 18432), (507, 18447), (508, 18450), (548, 18561), (549, 18564), (550, 18573), (551, 18579), (554, 18594), (555, 18597), (561, 18618), (573, 18648), (576, 18660), (585, 18693), (610, 18804), (611, 18807), (621, 18834), (623, 18840), (636, 18894), (637, 18897), (674, 18984), (677, 18999), (681, 19011), (682, 19014), (697, 19080), (702, 19104), (705, 19125), (707, 19134), (724, 19194), (725, 19197), (734, 19233), (737, 19251), (743, 19263), (745, 19272), (751, 19299), (776, 19368), (780, 19386), (784, 19395), (786, 19407), (797, 19443), (804, 19473), (809, 19494), (816, 19518), (823, 19554), (833, 19608), (849, 19668), (858, 19710), (880, 19788), (896, 19845), (900, 19869), (908, 19923), (912, 19971), (922, 20013), (925, 20037), (926, 20040),

Gene: Elite2014_25 Start: 21491, Stop: 23887, Start Num: 148

Candidate Starts for Elite2014_25:

(Start: 148 @21491 has 132 MA's), (248, 21668), (259, 21689), (342, 21836), (391, 22010), (404, 22043), (420, 22079), (479, 22172), (501, 22232), (508, 22250), (552, 22382), (566, 22427), (598, 22559), (610, 22604), (630, 22664), (672, 22778), (677, 22799), (688, 22838), (691, 22859), (695, 22874), (732, 23024), (734, 23030), (737, 23048), (752, 23102), (780, 23186), (807, 23279), (871, 23525), (912, 23741), (926, 23825), (933, 23858),

Gene: Elph10_27 Start: 21754, Stop: 24150, Start Num: 148

Candidate Starts for Elph10_27:

(Start: 148 @21754 has 132 MA's), (248, 21931), (259, 21952), (342, 22099), (391, 22273), (404, 22306), (420, 22342), (479, 22435), (501, 22495), (508, 22513), (552, 22645), (566, 22690), (598, 22822), (610, 22867), (630, 22927), (672, 23041), (677, 23062), (688, 23101), (691, 23122), (695, 23137), (732, 23287), (734, 23293), (737, 23311), (752, 23365), (780, 23449), (807, 23542), (871, 23788), (912, 24004), (926, 24088), (933, 24121),

Gene: Emerson_27 Start: 20872, Stop: 23304, Start Num: 151

Candidate Starts for Emerson_27:

(Start: 151 @20872 has 97 MA's), (214, 20971), (339, 21232), (346, 21253), (416, 21460), (431, 21493), (439, 21523), (473, 21595), (482, 21619), (498, 21664), (548, 21817), (556, 21862), (561, 21874), (565, 21883), (577, 21934), (619, 22114), (624, 22129), (641, 22198), (646, 22210), (670, 22273), (682, 22315), (691, 22354), (692, 22360), (695, 22369), (700, 22390), (715, 22450), (745,

22567), (755, 22609), (783, 22681), (785, 22690), (792, 22711), (808, 22783), (813, 22804), (833, 22900), (848, 22963), (894, 23128), (912, 23275),

Gene: EmiMonkey_18 Start: 17352, Stop: 19889, Start Num: 100

Candidate Starts for EmiMonkey_18:

(Start: 100 @17352 has 238 MA's), (113, 17373), (Start: 125 @17394 has 1 MA's), (142, 17433), (188, 17502), (194, 17511), (196, 17514), (204, 17532), (233, 17580), (303, 17733), (308, 17742), (330, 17787), (361, 17886), (362, 17889), (380, 17955), (404, 18030), (407, 18036), (416, 18054), (428, 18078), (431, 18084), (432, 18087), (456, 18120), (461, 18126), (479, 18156), (488, 18177), (498, 18207), (501, 18216), (507, 18231), (508, 18234), (548, 18345), (549, 18348), (550, 18357), (551, 18363), (554, 18378), (555, 18381), (561, 18402), (573, 18432), (576, 18444), (585, 18477), (610, 18588), (611, 18591), (621, 18618), (623, 18624), (636, 18678), (637, 18681), (677, 18783), (681, 18795), (682, 18798), (697, 18864), (702, 18888), (705, 18909), (707, 18918), (724, 18978), (725, 18981), (734, 19017), (737, 19035), (743, 19047), (745, 19056), (751, 19083), (773, 19140), (776, 19152), (780, 19170), (784, 19179), (786, 19191), (797, 19227), (804, 19257), (807, 19266), (809, 19278), (823, 19338), (833, 19392), (849, 19452), (858, 19494), (896, 19629), (900, 19653), (908, 19707), (912, 19755), (922, 19797), (925, 19821), (926, 19824),

Gene: Emma_18 Start: 17448, Stop: 19985, Start Num: 100

Candidate Starts for Emma_18:

(96, 17436), (Start: 100 @17448 has 238 MA's), (113, 17469), (Start: 125 @17490 has 1 MA's), (142, 17529), (188, 17598), (194, 17607), (196, 17610), (204, 17628), (222, 17661), (233, 17676), (257, 17724), (307, 17835), (308, 17838), (325, 17868), (330, 17883), (357, 17961), (362, 17985), (380, 18051), (392, 18096), (404, 18126), (407, 18132), (416, 18150), (428, 18174), (432, 18183), (456, 18216), (461, 18222), (479, 18252), (495, 18291), (498, 18303), (501, 18312), (507, 18327), (508, 18330), (548, 18441), (549, 18444), (550, 18453), (551, 18459), (554, 18474), (555, 18477), (561, 18498), (573, 18528), (576, 18540), (585, 18573), (598, 18639), (610, 18684), (611, 18687), (621, 18714), (623, 18720), (636, 18774), (637, 18777), (674, 18864), (677, 18879), (681, 18891), (682, 18894), (697, 18960), (702, 18984), (705, 19005), (707, 19014), (719, 19056), (724, 19074), (725, 19077), (734, 19113), (737, 19131), (743, 19143), (745, 19152), (751, 19179), (776, 19248), (780, 19266), (784, 19275), (786, 19287), (797, 19323), (804, 19353), (809, 19374), (816, 19398), (823, 19434), (833, 19488), (849, 19548), (858, 19590), (896, 19725), (900, 19749), (908, 19803), (912, 19851), (922, 19893), (925, 19917), (926, 19920),

Gene: Emmaloid_19 Start: 17189, Stop: 19726, Start Num: 100

Candidate Starts for Emmaloid_19:

(Start: 100 @17189 has 238 MA's), (113, 17210), (Start: 125 @17231 has 1 MA's), (142, 17270), (188, 17339), (194, 17348), (196, 17351), (204, 17369), (233, 17417), (303, 17570), (308, 17579), (330, 17624), (361, 17723), (362, 17726), (380, 17792), (404, 17867), (407, 17873), (416, 17891), (428, 17915), (431, 17921), (432, 17924), (456, 17957), (461, 17963), (479, 17993), (488, 18014), (498, 18044), (501, 18053), (507, 18068), (508, 18071), (548, 18182), (549, 18185), (550, 18194), (551, 18200), (554, 18215), (555, 18218), (561, 18239), (573, 18269), (576, 18281), (585, 18314), (610, 18425), (611, 18428), (621, 18455), (623, 18461), (636, 18515), (637, 18518), (677, 18620), (681, 18632), (682, 18635), (697, 18701), (702, 18725), (705, 18746), (707, 18755), (724, 18815), (725, 18818), (734, 18854), (737, 18872), (743, 18884), (745, 18893), (751, 18920), (773, 18977), (776, 18989), (780, 19007), (784, 19016), (786, 19028), (797, 19064), (804, 19094), (807, 19103), (809, 19115), (823, 19175), (833, 19229), (849, 19289), (858, 19331), (896, 19466), (900, 19490), (908, 19544), (912, 19592), (922, 19634), (925, 19658), (926, 19661),

Gene: Emmina_27 Start: 22115, Stop: 24511, Start Num: 148

Candidate Starts for Emmina_27:

(Start: 148 @22115 has 132 MA's), (248, 22292), (259, 22313), (342, 22460), (391, 22634), (404, 22667), (420, 22703), (479, 22796), (501, 22856), (508, 22874), (552, 23006), (566, 23051), (598,

23183), (610, 23228), (630, 23288), (672, 23402), (677, 23423), (688, 23462), (691, 23483), (695, 23498), (732, 23648), (734, 23654), (737, 23672), (752, 23726), (780, 23810), (807, 23903), (871, 24149), (912, 24365), (926, 24449), (933, 24482),

Gene: Empress_19 Start: 18749, Stop: 21286, Start Num: 100

Candidate Starts for Empress_19:

(96, 18737), (Start: 100 @18749 has 238 MA's), (113, 18770), (Start: 125 @18791 has 1 MA's), (142, 18830), (188, 18899), (194, 18908), (196, 18911), (204, 18929), (233, 18977), (257, 19025), (307, 19136), (308, 19139), (330, 19184), (357, 19262), (362, 19286), (380, 19352), (392, 19397), (404, 19427), (407, 19433), (416, 19451), (428, 19475), (432, 19484), (456, 19517), (461, 19523), (479, 19553), (495, 19592), (498, 19604), (501, 19613), (507, 19628), (508, 19631), (548, 19742), (549, 19745), (550, 19754), (551, 19760), (554, 19775), (555, 19778), (561, 19799), (573, 19829), (576, 19841), (585, 19874), (610, 19985), (611, 19988), (621, 20015), (623, 20021), (636, 20075), (637, 20078), (677, 20180), (681, 20192), (682, 20195), (697, 20261), (702, 20285), (705, 20306), (707, 20315), (724, 20375), (725, 20378), (734, 20414), (737, 20432), (745, 20453), (751, 20480), (773, 20537), (776, 20549), (780, 20567), (784, 20576), (786, 20588), (797, 20624), (804, 20654), (807, 20663), (809, 20675), (823, 20735), (833, 20789), (849, 20849), (858, 20891), (896, 21026), (900, 21050), (908, 21104), (912, 21152), (918, 21173), (925, 21218), (926, 21221),

Gene: Enby_19 Start: 17219, Stop: 19756, Start Num: 100

Candidate Starts for Enby_19:

(96, 17207), (Start: 100 @17219 has 238 MA's), (113, 17240), (Start: 125 @17261 has 1 MA's), (142, 17300), (188, 17369), (194, 17378), (196, 17381), (204, 17399), (222, 17432), (233, 17447), (257, 17495), (303, 17600), (308, 17609), (329, 17651), (330, 17654), (357, 17732), (362, 17756), (380, 17822), (392, 17867), (404, 17897), (407, 17903), (416, 17921), (428, 17945), (432, 17954), (456, 17987), (461, 17993), (479, 18023), (495, 18062), (498, 18074), (501, 18083), (507, 18098), (508, 18101), (548, 18212), (550, 18224), (551, 18230), (554, 18245), (555, 18248), (561, 18269), (573, 18299), (576, 18311), (585, 18344), (598, 18410), (610, 18455), (611, 18458), (621, 18485), (623, 18491), (636, 18545), (637, 18548), (652, 18575), (677, 18650), (681, 18662), (682, 18665), (697, 18731), (702, 18755), (707, 18785), (719, 18827), (724, 18845), (725, 18848), (734, 18884), (737, 18902), (745, 18923), (751, 18950), (776, 19019), (780, 19037), (784, 19046), (786, 19058), (797, 19094), (804, 19124), (807, 19133), (809, 19145), (823, 19205), (833, 19259), (849, 19319), (858, 19361), (880, 19439), (896, 19496), (900, 19520), (908, 19574), (912, 19622), (922, 19664), (925, 19688), (926, 19691),

Gene: Enceladus_20 Start: 18981, Stop: 21662, Start Num: 79

Candidate Starts for Enceladus_20:

(Start: 79 @18981 has 19 MA's), (81, 18987), (164, 19164), (182, 19194), (215, 19257), (249, 19332), (304, 19446), (306, 19452), (333, 19518), (354, 19581), (363, 19614), (365, 19617), (372, 19641), (378, 19665), (380, 19671), (381, 19677), (395, 19725), (404, 19746), (412, 19761), (421, 19782), (437, 19821), (442, 19833), (450, 19851), (488, 19926), (497, 19956), (506, 19980), (507, 19983), (525, 20028), (542, 20079), (549, 20097), (561, 20151), (579, 20223), (583, 20235), (586, 20244), (589, 20262), (592, 20286), (599, 20316), (607, 20352), (617, 20385), (618, 20391), (635, 20457), (662, 20523), (673, 20562), (691, 20643), (699, 20679), (701, 20685), (726, 20790), (729, 20799), (734, 20814), (737, 20832), (750, 20874), (782, 20970), (784, 20976), (797, 21030), (798, 21036), (801, 21048), (826, 21159), (830, 21189), (831, 21195), (853, 21291), (855, 21297), (860, 21321), (863, 21327), (864, 21333), (877, 21378), (878, 21387), (881, 21396), (893, 21435), (898, 21471), (900, 21480), (901, 21495), (913, 21591), (921, 21642), (922, 21648),

Gene: EniyanLRS_40 Start: 28045, Stop: 30612, Start Num: 102

Candidate Starts for EniyanLRS_40:

(Start: 102 @28045 has 6 MA's), (132, 28114), (200, 28237), (203, 28243), (204, 28246), (219, 28270), (230, 28291), (302, 28447), (305, 28453), (308, 28459), (320, 28489), (322, 28495), (330, 28516),

(334, 28525), (353, 28585), (375, 28663), (407, 28762), (422, 28795), (431, 28810), (432, 28813), (461, 28852), (488, 28903), (495, 28921), (501, 28942), (504, 28948), (520, 29002), (548, 29071), (553, 29095), (556, 29116), (567, 29137), (571, 29146), (576, 29167), (585, 29200), (586, 29203), (594, 29254), (598, 29266), (618, 29332), (624, 29350), (632, 29389), (677, 29506), (689, 29551), (701, 29608), (705, 29632), (707, 29641), (711, 29659), (724, 29704), (732, 29737), (739, 29773), (794, 29947), (797, 29965), (798, 29971), (813, 30028), (895, 30352), (897, 30370), (905, 30421), (914, 30484), (925, 30559),

Gene: Enzomatic_20 Start: 17446, Stop: 19983, Start Num: 100

Candidate Starts for Enzomatic_20:

(Start: 100 @17446 has 238 MA's), (113, 17467), (Start: 125 @17488 has 1 MA's), (140, 17524), (142, 17527), (188, 17596), (194, 17605), (196, 17608), (204, 17626), (222, 17659), (233, 17674), (257, 17722), (303, 17827), (307, 17833), (308, 17836), (329, 17878), (330, 17881), (362, 17983), (380, 18049), (392, 18094), (404, 18124), (407, 18130), (416, 18148), (428, 18172), (432, 18181), (456, 18214), (461, 18220), (488, 18271), (495, 18289), (498, 18301), (501, 18310), (507, 18325), (509, 18331), (548, 18439), (550, 18451), (551, 18457), (554, 18472), (555, 18475), (561, 18496), (573, 18526), (576, 18538), (585, 18571), (598, 18637), (610, 18682), (611, 18685), (621, 18712), (623, 18718), (636, 18772), (637, 18775), (674, 18862), (677, 18877), (681, 18889), (682, 18892), (697, 18958), (705, 19003), (707, 19012), (724, 19072), (725, 19075), (734, 19111), (737, 19129), (743, 19141), (745, 19150), (751, 19177), (776, 19246), (780, 19264), (784, 19273), (786, 19285), (797, 19321), (804, 19351), (809, 19372), (816, 19396), (823, 19432), (833, 19486), (849, 19546), (858, 19588), (880, 19666), (896, 19723), (900, 19747), (908, 19801), (912, 19849), (922, 19891), (925, 19915), (926, 19918),

Gene: Eponine_28 Start: 22173, Stop: 24917, Start Num: 72

Candidate Starts for Eponine_28:

(71, 22164), (Start: 72 @22173 has 3 MA's), (110, 22263), (134, 22308), (144, 22332), (221, 22488), (226, 22500), (236, 22521), (255, 22566), (301, 22701), (319, 22749), (326, 22764), (333, 22785), (338, 22803), (347, 22827), (352, 22842), (355, 22851), (362, 22878), (370, 22884), (381, 22929), (392, 22953), (397, 22965), (400, 22974), (403, 22980), (408, 22989), (420, 23016), (430, 23034), (464, 23127), (470, 23139), (475, 23148), (513, 23238), (518, 23259), (526, 23277), (539, 23310), (546, 23337), (556, 23388), (572, 23424), (575, 23448), (583, 23484), (586, 23493), (588, 23508), (592, 23535), (599, 23565), (607, 23601), (611, 23619), (612, 23622), (616, 23631), (663, 23781), (673, 23820), (699, 23937), (704, 23964), (722, 24027), (724, 24033), (726, 24048), (737, 24090), (765, 24177), (776, 24204), (784, 24234), (788, 24252), (796, 24282), (798, 24294), (801, 24306), (825, 24414), (827, 24429), (833, 24462), (837, 24483), (853, 24549), (860, 24579), (863, 24585), (878, 24645), (884, 24663), (900, 24738), (903, 24759), (908, 24795), (923, 24909),

Gene: Eradicator_18 Start: 17363, Stop: 19915, Start Num: 100

Candidate Starts for Eradicator_18:

(Start: 100 @17363 has 238 MA's), (113, 17384), (Start: 151 @17453 has 97 MA's), (188, 17513), (194, 17522), (196, 17525), (222, 17576), (233, 17591), (257, 17639), (307, 17750), (308, 17753), (326, 17786), (329, 17795), (330, 17798), (357, 17876), (373, 17942), (382, 17975), (399, 18029), (404, 18041), (428, 18089), (432, 18098), (436, 18107), (462, 18140), (488, 18182), (493, 18197), (504, 18227), (506, 18233), (507, 18236), (508, 18239), (517, 18266), (523, 18287), (538, 18320), (550, 18362), (551, 18368), (552, 18371), (554, 18383), (555, 18386), (564, 18413), (573, 18437), (576, 18449), (585, 18482), (589, 18503), (606, 18575), (611, 18596), (643, 18707), (663, 18731), (664, 18734), (669, 18758), (677, 18788), (685, 18812), (691, 18848), (692, 18854), (695, 18863), (713, 18953), (719, 18977), (720, 18992), (732, 19034), (734, 19040), (746, 19085), (777, 19181), (780, 19196), (784, 19205), (791, 19229), (807, 19292), (833, 19418), (892, 19634), (900, 19679), (912, 19781), (929, 19859),

Gene: Erk16_30 Start: 24319, Stop: 26589, Start Num: 291

Candidate Starts for Erk16_30:

(Start: 291 @24319 has 22 MA's), (340, 24454), (344, 24463), (392, 24637), (394, 24643), (399, 24655), (465, 24808), (474, 24823), (482, 24838), (594, 25219), (595, 25225), (608, 25270), (631, 25357), (694, 25558), (696, 25564), (705, 25612), (710, 25642), (717, 25666), (764, 25855), (775, 25882), (789, 25930), (806, 26002), (816, 26041), (818, 26062), (821, 26077), (825, 26095), (829, 26125), (850, 26209), (907, 26410), (912, 26452), (937, 26578),

Gene: Estave1_18 Start: 17517, Stop: 20006, Start Num: 100

Candidate Starts for Estave1_18:

(Start: 100 @17517 has 238 MA's), (113, 17538), (Start: 125 @17559 has 1 MA's), (143, 17598), (188, 17667), (194, 17676), (196, 17679), (204, 17697), (222, 17730), (233, 17745), (257, 17793), (290, 17847), (308, 17883), (311, 17892), (327, 17910), (330, 17922), (335, 17934), (345, 17958), (346, 17961), (389, 18105), (392, 18114), (404, 18138), (416, 18162), (428, 18186), (431, 18192), (442, 18213), (461, 18234), (479, 18264), (490, 18294), (498, 18315), (531, 18408), (538, 18423), (540, 18432), (548, 18453), (549, 18456), (573, 18540), (574, 18543), (576, 18552), (583, 18579), (586, 18588), (592, 18627), (596, 18648), (598, 18651), (609, 18687), (614, 18708), (636, 18786), (637, 18789), (666, 18843), (681, 18903), (702, 18996), (705, 19017), (716, 19053), (729, 19107), (732, 19116), (750, 19194), (755, 19212), (769, 19248), (770, 19251), (776, 19269), (777, 19272), (780, 19287), (797, 19344), (799, 19356), (823, 19452), (840, 19539), (852, 19587), (857, 19611), (865, 19638), (871, 19647), (879, 19686), (890, 19725), (896, 19749), (899, 19770), (912, 19866), (918, 19887), (929, 19950), (933, 19977), (936, 19986),

Gene: Eureka_26 Start: 22269, Stop: 24665, Start Num: 148

Candidate Starts for Eureka_26:

(Start: 148 @22269 has 132 MA's), (248, 22446), (259, 22467), (342, 22614), (382, 22755), (391, 22788), (404, 22821), (420, 22857), (479, 22950), (501, 23010), (508, 23028), (538, 23109), (598, 23337), (610, 23382), (677, 23577), (679, 23583), (682, 23592), (691, 23637), (695, 23652), (734, 23808), (737, 23826), (740, 23835), (755, 23889), (780, 23964), (781, 23967), (832, 24177), (834, 24189), (871, 24303), (912, 24519), (926, 24603), (931, 24627), (933, 24636),

Gene: FairyPath_26 Start: 22481, Stop: 24877, Start Num: 148

Candidate Starts for FairyPath_26:

(Start: 148 @22481 has 132 MA's), (248, 22658), (259, 22679), (342, 22826), (382, 22967), (391, 23000), (404, 23033), (420, 23069), (479, 23162), (501, 23222), (508, 23240), (556, 23396), (566, 23417), (594, 23537), (598, 23549), (610, 23594), (677, 23789), (679, 23795), (682, 23804), (691, 23849), (695, 23864), (734, 24020), (737, 24038), (740, 24047), (755, 24101), (780, 24176), (781, 24179), (832, 24389), (834, 24401), (871, 24515), (912, 24731), (926, 24815), (931, 24839), (933, 24848),

Gene: Familton_59 Start: 36102, Stop: 38612, Start Num: 114

Candidate Starts for Familton_59:

(Start: 114 @36102 has 34 MA's), (128, 36135), (163, 36204), (165, 36207), (179, 36231), (196, 36255), (209, 36279), (222, 36312), (310, 36519), (315, 36531), (316, 36534), (368, 36681), (373, 36711), (380, 36735), (392, 36765), (393, 36768), (404, 36795), (416, 36819), (431, 36849), (468, 36906), (481, 36930), (495, 36966), (498, 36978), (507, 37002), (508, 37005), (520, 37047), (554, 37143), (555, 37146), (627, 37401), (677, 37545), (691, 37605), (704, 37677), (705, 37680), (730, 37776), (780, 37950), (786, 37971), (812, 38064), (815, 38076), (833, 38166), (854, 38241), (879, 38286), (917, 38487), (924, 38541), (929, 38556),

Gene: Fancypants_18 Start: 17408, Stop: 19945, Start Num: 100

Candidate Starts for Fancypants_18:

(96, 17396), (Start: 100 @17408 has 238 MA's), (113, 17429), (Start: 125 @17450 has 1 MA's), (142, 17489), (188, 17558), (194, 17567), (196, 17570), (204, 17588), (222, 17621), (233, 17636), (257,

17684), (307, 17795), (308, 17798), (325, 17828), (329, 17840), (330, 17843), (357, 17921), (362, 17945), (380, 18011), (392, 18056), (404, 18086), (407, 18092), (416, 18110), (428, 18134), (432, 18143), (456, 18176), (461, 18182), (479, 18212), (495, 18251), (498, 18263), (501, 18272), (507, 18287), (508, 18290), (548, 18401), (549, 18404), (550, 18413), (551, 18419), (554, 18434), (555, 18437), (561, 18458), (573, 18488), (576, 18500), (585, 18533), (610, 18644), (611, 18647), (621, 18674), (623, 18680), (636, 18734), (637, 18737), (677, 18839), (681, 18851), (682, 18854), (697, 18920), (702, 18944), (705, 18965), (707, 18974), (724, 19034), (725, 19037), (726, 19049), (734, 19073), (737, 19091), (743, 19103), (745, 19112), (751, 19139), (776, 19208), (780, 19226), (784, 19235), (786, 19247), (797, 19283), (804, 19313), (809, 19334), (816, 19358), (823, 19394), (833, 19448), (849, 19508), (858, 19550), (880, 19628), (896, 19685), (900, 19709), (908, 19763), (912, 19811), (922, 19853), (925, 19877), (926, 19880),

Gene: Fastidio_18 Start: 17365, Stop: 19902, Start Num: 100

Candidate Starts for Fastidio_18:

(96, 17353), (Start: 100 @17365 has 238 MA's), (113, 17386), (Start: 125 @17407 has 1 MA's), (142, 17446), (188, 17515), (194, 17524), (196, 17527), (204, 17545), (222, 17578), (233, 17593), (257, 17641), (307, 17752), (308, 17755), (325, 17785), (329, 17797), (330, 17800), (357, 17878), (362, 17902), (380, 17968), (392, 18013), (404, 18043), (407, 18049), (416, 18067), (428, 18091), (432, 18100), (456, 18133), (461, 18139), (479, 18169), (495, 18208), (498, 18220), (501, 18229), (507, 18244), (508, 18247), (548, 18358), (549, 18361), (550, 18370), (551, 18376), (554, 18391), (555, 18394), (561, 18415), (573, 18445), (576, 18457), (585, 18490), (610, 18601), (611, 18604), (621, 18631), (623, 18637), (636, 18691), (637, 18694), (674, 18781), (677, 18796), (681, 18808), (682, 18811), (697, 18877), (701, 18898), (702, 18901), (705, 18922), (719, 18973), (724, 18991), (725, 18994), (734, 19030), (737, 19048), (743, 19060), (745, 19069), (773, 19153), (776, 19165), (780, 19183), (784, 19192), (786, 19204), (797, 19240), (804, 19270), (816, 19315), (823, 19351), (833, 19405), (858, 19507), (880, 19585), (896, 19642), (900, 19666), (908, 19720), (912, 19768), (922, 19810), (925, 19834), (926, 19837),

Gene: Faze9_32 Start: 30097, Stop: 32817, Start Num: 75

Candidate Starts for Faze9_32:

(Start: 75 @30097 has 36 MA's), (94, 30151), (117, 30190), (138, 30235), (149, 30259), (152, 30262), (166, 30295), (225, 30403), (237, 30424), (238, 30427), (261, 30481), (288, 30541), (299, 30565), (313, 30601), (331, 30649), (336, 30670), (351, 30709), (362, 30748), (369, 30763), (381, 30817), (385, 30829), (392, 30853), (402, 30877), (408, 30889), (415, 30904), (422, 30919), (438, 30961), (446, 30979), (458, 31018), (470, 31042), (539, 31213), (556, 31291), (575, 31351), (583, 31387), (584, 31390), (599, 31468), (607, 31504), (613, 31528), (620, 31549), (673, 31720), (675, 31726), (699, 31837), (704, 31864), (722, 31927), (724, 31933), (726, 31948), (737, 31990), (765, 32077), (776, 32104), (784, 32134), (788, 32152), (795, 32173), (796, 32182), (797, 32188), (798, 32194), (801, 32206), (824, 32311), (827, 32329), (833, 32362), (853, 32449), (860, 32479), (863, 32485), (878, 32545), (900, 32638), (901, 32653), (908, 32695), (923, 32809),

Gene: Filch_27 Start: 22042, Stop: 24438, Start Num: 148

Candidate Starts for Filch_27:

(Start: 148 @22042 has 132 MA's), (248, 22219), (259, 22240), (342, 22387), (382, 22528), (391, 22561), (404, 22594), (420, 22630), (479, 22723), (501, 22783), (508, 22801), (552, 22933), (566, 22978), (598, 23110), (610, 23155), (630, 23215), (672, 23329), (677, 23350), (688, 23389), (691, 23410), (695, 23425), (732, 23575), (734, 23581), (737, 23599), (752, 23653), (780, 23737), (807, 23830), (871, 24076), (912, 24292), (926, 24376), (933, 24409),

Gene: Filuzino_18 Start: 17390, Stop: 19927, Start Num: 100

Candidate Starts for Filuzino_18:

(96, 17378), (Start: 100 @17390 has 238 MA's), (113, 17411), (Start: 125 @17432 has 1 MA's), (142, 17471), (188, 17540), (194, 17549), (196, 17552), (204, 17570), (222, 17603), (233, 17618), (257,

17666), (307, 17777), (308, 17780), (325, 17810), (330, 17825), (357, 17903), (362, 17927), (380, 17993), (392, 18038), (404, 18068), (407, 18074), (416, 18092), (428, 18116), (432, 18125), (456, 18158), (461, 18164), (479, 18194), (495, 18233), (498, 18245), (501, 18254), (507, 18269), (508, 18272), (548, 18383), (549, 18386), (550, 18395), (551, 18401), (554, 18416), (555, 18419), (561, 18440), (573, 18470), (576, 18482), (585, 18515), (610, 18626), (611, 18629), (621, 18656), (623, 18662), (636, 18716), (637, 18719), (677, 18821), (681, 18833), (682, 18836), (697, 18902), (702, 18926), (705, 18947), (707, 18956), (724, 19016), (725, 19019), (734, 19055), (737, 19073), (743, 19085), (745, 19094), (751, 19121), (776, 19190), (780, 19208), (784, 19217), (786, 19229), (797, 19265), (804, 19295), (809, 19316), (816, 19340), (823, 19376), (833, 19430), (849, 19490), (858, 19532), (880, 19610), (896, 19667), (900, 19691), (908, 19745), (912, 19793), (922, 19835), (925, 19859), (926, 19862),

Gene: FireRed_26 Start: 22312, Stop: 24708, Start Num: 148

Candidate Starts for FireRed_26:

(Start: 148 @22312 has 132 MA's), (248, 22489), (259, 22510), (342, 22657), (382, 22798), (391, 22831), (404, 22864), (420, 22900), (479, 22993), (501, 23053), (508, 23071), (552, 23203), (566, 23248), (598, 23380), (610, 23425), (630, 23485), (672, 23599), (677, 23620), (688, 23659), (691, 23680), (695, 23695), (732, 23845), (734, 23851), (737, 23869), (752, 23923), (780, 24007), (807, 24100), (871, 24346), (912, 24562), (926, 24646), (933, 24679),

Gene: Firecracker_59 Start: 36292, Stop: 38802, Start Num: 114

Candidate Starts for Firecracker_59:

(Start: 114 @36292 has 34 MA's), (128, 36325), (163, 36394), (165, 36397), (179, 36421), (196, 36445), (209, 36469), (222, 36502), (310, 36709), (315, 36721), (316, 36724), (368, 36871), (373, 36901), (380, 36925), (392, 36955), (393, 36958), (404, 36985), (416, 37009), (431, 37039), (468, 37096), (495, 37156), (498, 37168), (507, 37192), (508, 37195), (520, 37237), (554, 37333), (555, 37336), (610, 37540), (627, 37591), (677, 37735), (691, 37795), (704, 37867), (705, 37870), (730, 37966), (780, 38140), (786, 38161), (812, 38254), (815, 38266), (833, 38356), (854, 38431), (879, 38476), (917, 38677), (924, 38731), (929, 38746),

Gene: Firehouse51_19 Start: 17957, Stop: 20494, Start Num: 100

Candidate Starts for Firehouse51_19:

(96, 17945), (Start: 100 @17957 has 238 MA's), (113, 17978), (Start: 125 @17999 has 1 MA's), (142, 18038), (188, 18107), (194, 18116), (196, 18119), (204, 18137), (222, 18170), (233, 18185), (257, 18233), (307, 18344), (308, 18347), (325, 18377), (329, 18389), (330, 18392), (357, 18470), (362, 18494), (380, 18560), (392, 18605), (404, 18635), (407, 18641), (416, 18659), (428, 18683), (432, 18692), (456, 18725), (461, 18731), (479, 18761), (495, 18800), (498, 18812), (501, 18821), (507, 18836), (508, 18839), (548, 18950), (549, 18953), (550, 18962), (551, 18968), (554, 18983), (555, 18986), (561, 19007), (573, 19037), (576, 19049), (585, 19082), (610, 19193), (611, 19196), (621, 19223), (623, 19229), (636, 19283), (637, 19286), (677, 19388), (681, 19400), (682, 19403), (697, 19469), (702, 19493), (705, 19514), (707, 19523), (724, 19583), (725, 19586), (734, 19622), (737, 19640), (743, 19652), (745, 19661), (751, 19688), (776, 19757), (780, 19775), (784, 19784), (786, 19796), (797, 19832), (804, 19862), (809, 19883), (816, 19907), (823, 19943), (833, 19997), (849, 20057), (858, 20099), (880, 20177), (896, 20234), (900, 20258), (908, 20312), (912, 20360), (922, 20402), (925, 20426), (926, 20429),

Gene: FlagStaff_22 Start: 20643, Stop: 23102, Start Num: 97

Candidate Starts for FlagStaff_22:

(Start: 97 @20643 has 9 MA's), (127, 20703), (147, 20751), (257, 20946), (376, 21234), (417, 21336), (431, 21360), (502, 21504), (507, 21519), (537, 21600), (557, 21675), (576, 21732), (582, 21756), (590, 21792), (636, 21978), (642, 21999), (666, 22047), (668, 22062), (686, 22128), (695, 22170), (719, 22263), (722, 22281), (737, 22347), (757, 22428), (787, 22494), (823, 22647), (842, 22737), (856, 22806), (868, 22842), (895, 22935), (909, 23040), (911, 23076),

Gene: Flathead_19 Start: 17265, Stop: 19802, Start Num: 100

Candidate Starts for Flathead_19:

(96, 17253), (Start: 100 @17265 has 238 MA's), (113, 17286), (Start: 125 @17307 has 1 MA's), (142, 17346), (188, 17415), (194, 17424), (196, 17427), (204, 17445), (222, 17478), (233, 17493), (257, 17541), (307, 17652), (308, 17655), (325, 17685), (329, 17697), (330, 17700), (357, 17778), (362, 17802), (380, 17868), (392, 17913), (404, 17943), (407, 17949), (416, 17967), (428, 17991), (432, 18000), (456, 18033), (461, 18039), (479, 18069), (495, 18108), (498, 18120), (501, 18129), (507, 18144), (508, 18147), (548, 18258), (549, 18261), (550, 18270), (551, 18276), (554, 18291), (555, 18294), (561, 18315), (573, 18345), (576, 18357), (585, 18390), (598, 18456), (610, 18501), (611, 18504), (621, 18531), (623, 18537), (636, 18591), (637, 18594), (674, 18681), (677, 18696), (681, 18708), (682, 18711), (697, 18777), (702, 18801), (705, 18822), (707, 18831), (724, 18891), (725, 18894), (734, 18930), (737, 18948), (743, 18960), (745, 18969), (751, 18996), (776, 19065), (780, 19083), (784, 19092), (786, 19104), (797, 19140), (804, 19170), (809, 19191), (816, 19215), (823, 19251), (833, 19305), (849, 19365), (858, 19407), (896, 19542), (900, 19566), (908, 19620), (912, 19668), (922, 19710), (925, 19734), (926, 19737),

Gene: Florinda_18 Start: 17419, Stop: 19956, Start Num: 100

Candidate Starts for Florinda_18:

(Start: 100 @17419 has 238 MA's), (113, 17440), (Start: 125 @17461 has 1 MA's), (142, 17500), (188, 17569), (194, 17578), (196, 17581), (204, 17599), (222, 17632), (233, 17647), (257, 17695), (307, 17806), (308, 17809), (325, 17839), (330, 17854), (357, 17932), (362, 17956), (380, 18022), (392, 18067), (404, 18097), (407, 18103), (416, 18121), (428, 18145), (432, 18154), (456, 18187), (461, 18193), (479, 18223), (495, 18262), (501, 18283), (507, 18298), (508, 18301), (549, 18415), (550, 18424), (551, 18430), (555, 18448), (561, 18469), (573, 18499), (576, 18511), (585, 18544), (610, 18655), (611, 18658), (621, 18685), (623, 18691), (636, 18745), (637, 18748), (674, 18835), (677, 18850), (682, 18865), (702, 18955), (705, 18976), (707, 18985), (724, 19045), (725, 19048), (732, 19078), (737, 19102), (745, 19123), (776, 19219), (780, 19237), (784, 19246), (786, 19258), (797, 19294), (804, 19324), (809, 19345), (816, 19369), (823, 19405), (833, 19459), (849, 19519), (858, 19561), (880, 19639), (896, 19696), (900, 19720), (908, 19774), (912, 19822), (922, 19864), (925, 19888), (926, 19891),

Gene: Flypotenuse_24 Start: 21900, Stop: 24296, Start Num: 148

Candidate Starts for Flypotenuse_24:

(Start: 148 @21900 has 132 MA's), (248, 22077), (259, 22098), (342, 22245), (382, 22386), (391, 22419), (404, 22452), (420, 22488), (479, 22581), (501, 22641), (508, 22659), (552, 22791), (598, 22968), (610, 23013), (672, 23187), (677, 23208), (688, 23247), (691, 23268), (695, 23283), (734, 23439), (737, 23457), (752, 23511), (780, 23595), (862, 23919), (912, 24150), (926, 24234), (933, 24267),

Gene: FoghornLeghorn_25 Start: 21788, Stop: 24184, Start Num: 148

Candidate Starts for FoghornLeghorn_25:

(Start: 148 @21788 has 132 MA's), (248, 21965), (259, 21986), (342, 22133), (382, 22274), (391, 22307), (404, 22340), (420, 22376), (479, 22469), (501, 22529), (508, 22547), (552, 22679), (566, 22724), (598, 22856), (610, 22901), (672, 23075), (677, 23096), (688, 23135), (691, 23156), (695, 23171), (734, 23327), (737, 23345), (752, 23399), (780, 23483), (807, 23576), (871, 23822), (912, 24038), (926, 24122), (933, 24155),

Gene: ForDig_26 Start: 27555, Stop: 30056, Start Num: 105

Candidate Starts for ForDig_26:

(Start: 105 @27555 has 6 MA's), (115, 27576), (130, 27612), (157, 27669), (220, 27789), (230, 27807), (259, 27879), (263, 27885), (292, 27939), (309, 27975), (376, 28158), (389, 28203), (404, 28242), (434, 28296), (463, 28344), (489, 28401), (501, 28437), (507, 28455), (523, 28503), (552, 28587),

(563, 28623), (573, 28653), (582, 28689), (587, 28707), (636, 28914), (639, 28926), (642, 28935), (668, 29004), (670, 29010), (671, 29013), (674, 29022), (684, 29055), (691, 29097), (695, 29112), (714, 29193), (719, 29205), (722, 29223), (724, 29229), (726, 29244), (728, 29250), (748, 29331), (787, 29436), (804, 29508), (837, 29667), (909, 29988),

Gene: FoulBall_58 Start: 36096, Stop: 38606, Start Num: 114

Candidate Starts for FoulBall_58:

(Start: 114 @36096 has 34 MA's), (128, 36129), (163, 36198), (165, 36201), (179, 36225), (196, 36249), (209, 36273), (222, 36306), (310, 36513), (315, 36525), (316, 36528), (368, 36675), (373, 36705), (380, 36729), (392, 36759), (393, 36762), (404, 36789), (416, 36813), (431, 36843), (468, 36900), (481, 36924), (495, 36960), (498, 36972), (507, 36996), (508, 36999), (520, 37041), (554, 37137), (555, 37140), (627, 37395), (677, 37539), (691, 37599), (704, 37671), (705, 37674), (730, 37770), (780, 37944), (786, 37965), (812, 38058), (815, 38070), (833, 38160), (854, 38235), (879, 38280), (917, 38481), (924, 38535), (929, 38550),

Gene: Fowlmouth_24 Start: 20553, Stop: 24044, Start Num: 3

Candidate Starts for Fowlmouth_24:

(Start: 3 @20553 has 2 MA's), (9, 20778), (13, 20847), (16, 20880), (27, 21075), (42, 21171), (43, 21174), (46, 21180), (54, 21207), (61, 21225), (245, 21675), (252, 21696), (324, 21879), (325, 21882), (349, 21951), (350, 21957), (376, 22053), (382, 22077), (388, 22101), (419, 22176), (465, 22251), (501, 22338), (514, 22374), (531, 22425), (532, 22428), (551, 22488), (576, 22566), (585, 22599), (591, 22638), (610, 22710), (721, 23100), (731, 23136), (749, 23211), (789, 23334), (898, 23790), (930, 23973),

Gene: Frankie_19 Start: 17503, Stop: 20040, Start Num: 100

Candidate Starts for Frankie_19:

(Start: 100 @17503 has 238 MA's), (113, 17524), (Start: 125 @17545 has 1 MA's), (142, 17584), (188, 17653), (194, 17662), (196, 17665), (204, 17683), (222, 17716), (233, 17731), (257, 17779), (307, 17890), (308, 17893), (325, 17923), (330, 17938), (357, 18016), (362, 18040), (380, 18106), (392, 18151), (404, 18181), (407, 18187), (416, 18205), (428, 18229), (432, 18238), (456, 18271), (461, 18277), (479, 18307), (495, 18346), (501, 18367), (507, 18382), (509, 18388), (555, 18532), (561, 18553), (573, 18583), (576, 18595), (585, 18628), (596, 18691), (598, 18694), (621, 18769), (623, 18775), (636, 18829), (637, 18832), (652, 18859), (658, 18868), (677, 18934), (681, 18946), (682, 18949), (697, 19015), (701, 19036), (702, 19039), (705, 19060), (719, 19111), (724, 19129), (725, 19132), (732, 19162), (737, 19186), (745, 19207), (752, 19240), (776, 19303), (780, 19321), (784, 19330), (786, 19342), (804, 19408), (807, 19417), (809, 19429), (849, 19603), (858, 19645), (880, 19723), (896, 19780), (900, 19804), (908, 19858), (912, 19906), (925, 19972), (926, 19975),

Gene: FreddyB_18 Start: 17407, Stop: 19959, Start Num: 100

Candidate Starts for FreddyB_18:

(Start: 100 @17407 has 238 MA's), (142, 17488), (188, 17557), (194, 17566), (196, 17569), (204, 17587), (233, 17635), (256, 17680), (307, 17794), (308, 17797), (314, 17809), (326, 17830), (329, 17839), (330, 17842), (346, 17890), (357, 17920), (373, 17986), (382, 18019), (392, 18055), (402, 18079), (431, 18139), (432, 18142), (442, 18160), (486, 18223), (488, 18226), (495, 18244), (501, 18265), (508, 18283), (517, 18310), (523, 18331), (538, 18364), (550, 18406), (551, 18412), (552, 18415), (555, 18430), (564, 18457), (573, 18481), (576, 18493), (585, 18526), (606, 18619), (636, 18727), (643, 18751), (663, 18775), (664, 18778), (669, 18802), (677, 18832), (685, 18856), (691, 18892), (692, 18898), (695, 18907), (701, 18934), (713, 18997), (719, 19021), (720, 19036), (732, 19078), (746, 19129), (777, 19225), (780, 19240), (784, 19249), (791, 19273), (807, 19336), (816, 19372), (892, 19678), (900, 19723), (912, 19825),

Gene: FrenchFry_32 Start: 30091, Stop: 32811, Start Num: 75

Candidate Starts for FrenchFry_32:

(Start: 75 @30091 has 36 MA's), (94, 30145), (117, 30184), (138, 30229), (149, 30253), (152, 30256), (166, 30289), (225, 30397), (237, 30418), (238, 30421), (261, 30475), (288, 30535), (299, 30559), (313, 30595), (331, 30643), (336, 30664), (351, 30703), (362, 30742), (369, 30757), (381, 30811), (385, 30823), (392, 30847), (402, 30871), (408, 30883), (415, 30898), (422, 30913), (438, 30955), (446, 30973), (458, 31012), (470, 31036), (539, 31207), (556, 31285), (575, 31345), (583, 31381), (584, 31384), (599, 31462), (607, 31498), (613, 31522), (620, 31543), (673, 31714), (675, 31720), (699, 31831), (704, 31858), (722, 31921), (724, 31927), (726, 31942), (737, 31984), (765, 32071), (776, 32098), (784, 32128), (788, 32146), (795, 32167), (796, 32176), (797, 32182), (798, 32188), (801, 32200), (824, 32305), (827, 32323), (833, 32356), (853, 32443), (860, 32473), (863, 32479), (878, 32539), (900, 32632), (901, 32647), (908, 32689), (923, 32803),

Gene: Fruitloop_18 Start: 17429, Stop: 19966, Start Num: 100

Candidate Starts for Fruitloop_18:

(96, 17417), (Start: 100 @17429 has 238 MA's), (113, 17450), (Start: 125 @17471 has 1 MA's), (142, 17510), (188, 17579), (194, 17588), (196, 17591), (204, 17609), (222, 17642), (233, 17657), (257, 17705), (307, 17816), (308, 17819), (325, 17849), (329, 17861), (330, 17864), (357, 17942), (362, 17966), (380, 18032), (392, 18077), (404, 18107), (407, 18113), (416, 18131), (428, 18155), (432, 18164), (456, 18197), (461, 18203), (479, 18233), (495, 18272), (498, 18284), (501, 18293), (507, 18308), (508, 18311), (548, 18422), (549, 18425), (550, 18434), (551, 18440), (554, 18455), (555, 18458), (561, 18479), (573, 18509), (576, 18521), (585, 18554), (610, 18665), (611, 18668), (621, 18695), (623, 18701), (636, 18755), (637, 18758), (674, 18845), (677, 18860), (681, 18872), (682, 18875), (697, 18941), (702, 18965), (705, 18986), (707, 18995), (724, 19055), (725, 19058), (734, 19094), (737, 19112), (743, 19124), (745, 19133), (751, 19160), (776, 19229), (780, 19247), (784, 19256), (786, 19268), (797, 19304), (804, 19334), (809, 19355), (816, 19379), (823, 19415), (833, 19469), (849, 19529), (858, 19571), (880, 19649), (896, 19706), (900, 19730), (908, 19784), (912, 19832), (922, 19874), (925, 19898), (926, 19901),

Gene: Funsized_34 Start: 32646, Stop: 35123, Start Num: 105

Candidate Starts for Funsized_34:

(Start: 105 @32646 has 6 MA's), (110, 32655), (147, 32742), (149, 32748), (166, 32778), (191, 32817), (193, 32820), (213, 32847), (215, 32850), (220, 32865), (230, 32883), (267, 32958), (300, 33021), (332, 33078), (341, 33105), (346, 33120), (348, 33123), (376, 33222), (431, 33354), (434, 33360), (444, 33384), (469, 33420), (488, 33459), (502, 33504), (507, 33519), (522, 33564), (537, 33600), (545, 33621), (570, 33708), (593, 33810), (619, 33909), (628, 33939), (636, 33975), (640, 33990), (642, 33996), (668, 34065), (670, 34071), (685, 34122), (719, 34263), (724, 34287), (733, 34323), (749, 34389), (762, 34434), (784, 34491), (787, 34506), (792, 34518), (813, 34611), (815, 34617), (816, 34620), (832, 34710), (834, 34722), (865, 34848), (895, 34953), (914, 35106),

Gene: GUmble_18 Start: 17402, Stop: 19939, Start Num: 100

Candidate Starts for GUmble_18:

(Start: 100 @17402 has 238 MA's), (113, 17423), (Start: 125 @17444 has 1 MA's), (142, 17483), (188, 17552), (194, 17561), (196, 17564), (204, 17582), (222, 17615), (233, 17630), (303, 17783), (308, 17792), (330, 17837), (361, 17936), (362, 17939), (380, 18005), (404, 18080), (407, 18086), (428, 18128), (431, 18134), (432, 18137), (456, 18170), (461, 18176), (479, 18206), (488, 18227), (498, 18257), (501, 18266), (507, 18281), (508, 18284), (548, 18395), (549, 18398), (550, 18407), (551, 18413), (554, 18428), (555, 18431), (561, 18452), (573, 18482), (576, 18494), (585, 18527), (610, 18638), (611, 18641), (621, 18668), (623, 18674), (636, 18728), (637, 18731), (674, 18818), (677, 18833), (681, 18845), (682, 18848), (697, 18914), (702, 18938), (705, 18959), (707, 18968), (719, 19010), (724, 19028), (725, 19031), (732, 19061), (737, 19085), (743, 19097), (745, 19106), (776, 19202), (780, 19220), (784, 19229), (786, 19241), (797, 19277), (804, 19307), (807, 19316), (809, 19328), (823, 19388), (833, 19442), (849, 19502), (858, 19544), (896, 19679), (900, 19703), (908, 19757), (912, 19805), (922, 19847), (925, 19871), (926, 19874),

Gene: Gage_28 Start: 22274, Stop: 24670, Start Num: 148

Candidate Starts for Gage_28:

(Start: 148 @22274 has 132 MA's), (248, 22451), (259, 22472), (342, 22619), (382, 22760), (391, 22793), (404, 22826), (420, 22862), (479, 22955), (501, 23015), (508, 23033), (552, 23165), (566, 23210), (598, 23342), (610, 23387), (630, 23447), (672, 23561), (677, 23582), (688, 23621), (691, 23642), (695, 23657), (732, 23807), (734, 23813), (737, 23831), (752, 23885), (780, 23969), (807, 24062), (871, 24308), (912, 24524), (926, 24608), (933, 24641),

Gene: Gaia_21 Start: 19931, Stop: 22501, Start Num: 90

Candidate Starts for Gaia_21:

(Start: 90 @19931 has 2 MA's), (133, 20021), (169, 20090), (178, 20099), (180, 20102), (210, 20156), (218, 20168), (246, 20216), (266, 20261), (299, 20333), (308, 20354), (318, 20375), (329, 20396), (330, 20399), (373, 20543), (382, 20576), (407, 20633), (432, 20684), (442, 20702), (498, 20798), (501, 20807), (504, 20813), (507, 20822), (508, 20825), (517, 20852), (523, 20873), (538, 20906), (540, 20915), (548, 20936), (550, 20948), (554, 20969), (573, 21023), (576, 21035), (585, 21068), (601, 21143), (609, 21170), (643, 21293), (664, 21320), (669, 21344), (677, 21374), (685, 21398), (692, 21440), (695, 21449), (720, 21578), (727, 21605), (743, 21656), (777, 21767), (780, 21782), (851, 22073), (896, 22241), (900, 22265), (922, 22409), (926, 22436), (928, 22442), (929, 22445),

Gene: Galactic_18 Start: 17394, Stop: 19931, Start Num: 100

Candidate Starts for Galactic_18:

(96, 17382), (Start: 100 @17394 has 238 MA's), (113, 17415), (Start: 125 @17436 has 1 MA's), (142, 17475), (188, 17544), (194, 17553), (196, 17556), (204, 17574), (222, 17607), (233, 17622), (257, 17670), (307, 17781), (308, 17784), (325, 17814), (330, 17829), (357, 17907), (362, 17931), (380, 17997), (392, 18042), (404, 18072), (407, 18078), (416, 18096), (428, 18120), (432, 18129), (456, 18162), (461, 18168), (479, 18198), (495, 18237), (498, 18249), (501, 18258), (507, 18273), (508, 18276), (548, 18387), (549, 18390), (550, 18399), (551, 18405), (554, 18420), (555, 18423), (561, 18444), (573, 18474), (576, 18486), (585, 18519), (610, 18630), (611, 18633), (621, 18660), (623, 18666), (636, 18720), (637, 18723), (677, 18825), (681, 18837), (682, 18840), (697, 18906), (702, 18930), (705, 18951), (707, 18960), (724, 19020), (725, 19023), (734, 19059), (737, 19077), (743, 19089), (745, 19098), (751, 19125), (776, 19194), (780, 19212), (784, 19221), (786, 19233), (797, 19269), (804, 19299), (809, 19320), (816, 19344), (823, 19380), (833, 19434), (849, 19494), (858, 19536), (880, 19614), (896, 19671), (900, 19695), (908, 19749), (912, 19797), (922, 19839), (925, 19863), (926, 19866),

Gene: Gandolph_18 Start: 17413, Stop: 19965, Start Num: 100

Candidate Starts for Gandolph_18:

(Start: 100 @17413 has 238 MA's), (142, 17494), (188, 17563), (194, 17572), (196, 17575), (204, 17593), (233, 17641), (256, 17686), (307, 17800), (308, 17803), (314, 17815), (326, 17836), (329, 17845), (330, 17848), (346, 17896), (357, 17926), (373, 17992), (382, 18025), (392, 18061), (402, 18085), (431, 18145), (432, 18148), (442, 18166), (486, 18229), (488, 18232), (495, 18250), (501, 18271), (508, 18289), (517, 18316), (523, 18337), (538, 18370), (550, 18412), (551, 18418), (552, 18421), (555, 18436), (564, 18463), (566, 18466), (573, 18487), (576, 18499), (585, 18532), (606, 18625), (636, 18733), (643, 18757), (652, 18763), (663, 18781), (664, 18784), (669, 18808), (677, 18838), (685, 18862), (691, 18898), (692, 18904), (695, 18913), (701, 18940), (713, 19003), (719, 19027), (720, 19042), (732, 19084), (746, 19135), (777, 19231), (780, 19246), (784, 19255), (791, 19279), (807, 19342), (816, 19378), (892, 19684), (900, 19729), (912, 19831),

Gene: Ganymede_28 Start: 20892, Stop: 23324, Start Num: 151

Candidate Starts for Ganymede_28:

(Start: 151 @20892 has 97 MA's), (214, 20991), (339, 21252), (346, 21273), (416, 21480), (431, 21513), (439, 21543), (473, 21615), (482, 21639), (498, 21684), (548, 21837), (556, 21882), (561, 21894), (565, 21903), (577, 21954), (619, 22134), (624, 22149), (641, 22218), (646, 22230), (670,

22293), (682, 22335), (691, 22374), (692, 22380), (695, 22389), (700, 22410), (715, 22470), (745, 22587), (755, 22629), (783, 22701), (785, 22710), (792, 22731), (808, 22803), (813, 22824), (833, 22920), (848, 22983), (872, 23067), (882, 23109), (894, 23148),

Gene: Gator_24 Start: 21899, Stop: 24295, Start Num: 148

Candidate Starts for Gator_24:

(Start: 148 @21899 has 132 MA's), (248, 22076), (259, 22097), (342, 22244), (382, 22385), (391, 22418), (404, 22451), (420, 22487), (479, 22580), (501, 22640), (508, 22658), (538, 22739), (598, 22967), (610, 23012), (677, 23207), (679, 23213), (682, 23222), (691, 23267), (695, 23282), (734, 23438), (737, 23456), (740, 23465), (755, 23519), (780, 23594), (781, 23597), (832, 23807), (834, 23819), (871, 23933), (912, 24149), (926, 24233), (931, 24257), (933, 24266),

Gene: Gemini_29 Start: 22791, Stop: 25187, Start Num: 148

Candidate Starts for Gemini_29:

(Start: 148 @22791 has 132 MA's), (248, 22968), (259, 22989), (342, 23136), (382, 23277), (391, 23310), (404, 23343), (420, 23379), (479, 23472), (501, 23532), (508, 23550), (552, 23682), (566, 23727), (598, 23859), (610, 23904), (630, 23964), (672, 24078), (677, 24099), (688, 24138), (691, 24159), (695, 24174), (732, 24324), (734, 24330), (737, 24348), (752, 24402), (780, 24486), (807, 24579), (871, 24825), (912, 25041), (926, 25125), (933, 25158),

Gene: Geraldini_27 Start: 20888, Stop: 23320, Start Num: 151

Candidate Starts for Geraldini_27:

(Start: 151 @20888 has 97 MA's), (214, 20987), (281, 21128), (339, 21248), (346, 21269), (416, 21476), (431, 21509), (439, 21539), (473, 21611), (482, 21635), (548, 21833), (556, 21878), (561, 21890), (565, 21899), (577, 21950), (619, 22130), (624, 22145), (641, 22214), (646, 22226), (670, 22289), (682, 22331), (691, 22370), (692, 22376), (695, 22385), (700, 22406), (715, 22466), (745, 22583), (755, 22625), (783, 22697), (785, 22706), (792, 22727), (808, 22799), (813, 22820), (833, 22916), (848, 22979), (872, 23063), (882, 23105), (894, 23144),

Gene: Geralt_18 Start: 17396, Stop: 19933, Start Num: 100

Candidate Starts for Geralt_18:

(Start: 100 @17396 has 238 MA's), (113, 17417), (Start: 125 @17438 has 1 MA's), (142, 17477), (188, 17546), (194, 17555), (196, 17558), (204, 17576), (233, 17624), (257, 17672), (307, 17783), (308, 17786), (330, 17831), (357, 17909), (362, 17933), (380, 17999), (404, 18074), (407, 18080), (416, 18098), (428, 18122), (432, 18131), (456, 18164), (461, 18170), (479, 18200), (488, 18221), (498, 18251), (501, 18260), (540, 18368), (545, 18380), (548, 18389), (549, 18392), (551, 18407), (554, 18422), (555, 18425), (561, 18446), (576, 18488), (585, 18521), (610, 18632), (611, 18635), (621, 18662), (623, 18668), (636, 18722), (637, 18725), (652, 18752), (677, 18827), (681, 18839), (682, 18842), (697, 18908), (701, 18929), (702, 18932), (705, 18953), (707, 18962), (719, 19004), (724, 19022), (725, 19025), (732, 19055), (737, 19079), (743, 19091), (745, 19100), (776, 19196), (780, 19214), (784, 19223), (786, 19235), (797, 19271), (804, 19301), (807, 19310), (809, 19322), (823, 19382), (833, 19436), (849, 19496), (858, 19538), (896, 19673), (900, 19697), (908, 19751), (912, 19799), (922, 19841), (925, 19865), (926, 19868),

Gene: GigiOuiOui_18 Start: 17527, Stop: 20064, Start Num: 100

Candidate Starts for GigiOuiOui_18:

(Start: 100 @17527 has 238 MA's), (113, 17548), (Start: 125 @17569 has 1 MA's), (142, 17608), (188, 17677), (194, 17686), (196, 17689), (204, 17707), (233, 17755), (303, 17908), (308, 17917), (330, 17962), (361, 18061), (362, 18064), (380, 18130), (404, 18205), (407, 18211), (416, 18229), (428, 18253), (431, 18259), (432, 18262), (456, 18295), (461, 18301), (479, 18331), (488, 18352), (498, 18382), (501, 18391), (507, 18406), (508, 18409), (548, 18520), (549, 18523), (550, 18532), (551, 18538), (554, 18553), (555, 18556), (561, 18577), (573, 18607), (576, 18619), (585, 18652), (610, 18763), (611, 18766), (621, 18793), (623, 18799), (636, 18853), (637, 18856), (677, 18958), (681,

18970), (682, 18973), (697, 19039), (702, 19063), (705, 19084), (707, 19093), (724, 19153), (725, 19156), (734, 19192), (737, 19210), (743, 19222), (745, 19231), (751, 19258), (773, 19315), (776, 19327), (780, 19345), (784, 19354), (786, 19366), (797, 19402), (804, 19432), (807, 19441), (809, 19453), (823, 19513), (833, 19567), (849, 19627), (858, 19669), (896, 19804), (900, 19828), (908, 19882), (912, 19930), (922, 19972), (925, 19996), (926, 19999),

Gene: Girafales_19 Start: 17227, Stop: 19764, Start Num: 100

Candidate Starts for Girafales_19:

(Start: 100 @17227 has 238 MA's), (113, 17248), (Start: 125 @17269 has 1 MA's), (142, 17308), (188, 17377), (194, 17386), (196, 17389), (204, 17407), (222, 17440), (233, 17455), (257, 17503), (307, 17614), (308, 17617), (325, 17647), (330, 17662), (357, 17740), (362, 17764), (380, 17830), (392, 17875), (404, 17905), (407, 17911), (416, 17929), (428, 17953), (432, 17962), (456, 17995), (461, 18001), (479, 18031), (495, 18070), (501, 18091), (507, 18106), (508, 18109), (549, 18223), (550, 18232), (551, 18238), (555, 18256), (561, 18277), (573, 18307), (576, 18319), (585, 18352), (610, 18463), (611, 18466), (621, 18493), (623, 18499), (636, 18553), (637, 18556), (674, 18643), (677, 18658), (682, 18673), (702, 18763), (705, 18784), (707, 18793), (724, 18853), (725, 18856), (732, 18886), (737, 18910), (745, 18931), (776, 19027), (780, 19045), (784, 19054), (786, 19066), (797, 19102), (804, 19132), (809, 19153), (816, 19177), (823, 19213), (833, 19267), (849, 19327), (858, 19369), (880, 19447), (896, 19504), (900, 19528), (908, 19582), (912, 19630), (922, 19672), (925, 19696), (926, 19699),

Gene: Girr_18 Start: 17371, Stop: 19908, Start Num: 100

Candidate Starts for Girr_18:

(Start: 100 @17371 has 238 MA's), (113, 17392), (Start: 125 @17413 has 1 MA's), (142, 17452), (188, 17521), (194, 17530), (196, 17533), (204, 17551), (222, 17584), (233, 17599), (303, 17752), (308, 17761), (330, 17806), (361, 17905), (362, 17908), (380, 17974), (404, 18049), (407, 18055), (428, 18097), (431, 18103), (432, 18106), (456, 18139), (461, 18145), (479, 18175), (488, 18196), (498, 18226), (501, 18235), (507, 18250), (508, 18253), (548, 18364), (549, 18367), (550, 18376), (551, 18382), (554, 18397), (555, 18400), (561, 18421), (573, 18451), (576, 18463), (585, 18496), (610, 18607), (611, 18610), (621, 18637), (623, 18643), (636, 18697), (637, 18700), (674, 18787), (677, 18802), (681, 18814), (682, 18817), (697, 18883), (702, 18907), (705, 18928), (707, 18937), (719, 18979), (724, 18997), (725, 19000), (732, 19030), (737, 19054), (743, 19066), (745, 19075), (776, 19171), (780, 19189), (784, 19198), (786, 19210), (797, 19246), (804, 19276), (807, 19285), (809, 19297), (823, 19357), (833, 19411), (849, 19471), (858, 19513), (896, 19648), (900, 19672), (908, 19726), (912, 19774), (922, 19816), (925, 19840), (926, 19843),

Gene: Giuseppe_30 Start: 24308, Stop: 26578, Start Num: 291

Candidate Starts for Giuseppe_30:

(Start: 291 @24308 has 22 MA's), (340, 24443), (344, 24452), (392, 24626), (394, 24632), (399, 24644), (465, 24797), (474, 24812), (482, 24827), (594, 25208), (595, 25214), (608, 25259), (631, 25346), (694, 25547), (696, 25553), (705, 25601), (710, 25631), (717, 25655), (764, 25844), (775, 25871), (789, 25919), (806, 25991), (816, 26030), (818, 26051), (821, 26066), (825, 26084), (829, 26114), (850, 26198), (907, 26399), (912, 26441), (937, 26567),

Gene: Glass_32 Start: 30091, Stop: 32811, Start Num: 75

Candidate Starts for Glass_32:

(Start: 75 @30091 has 36 MA's), (94, 30145), (117, 30184), (138, 30229), (149, 30253), (152, 30256), (166, 30289), (225, 30397), (237, 30418), (238, 30421), (261, 30475), (288, 30535), (299, 30559), (313, 30595), (331, 30643), (336, 30664), (351, 30703), (362, 30742), (369, 30757), (381, 30811), (385, 30823), (392, 30847), (402, 30871), (408, 30883), (415, 30898), (422, 30913), (438, 30955), (446, 30973), (458, 31012), (470, 31036), (539, 31207), (556, 31285), (575, 31345), (583, 31381), (584, 31384), (599, 31462), (607, 31498), (613, 31522), (640, 31621), (656, 31660), (673, 31714), (699, 31831), (704, 31858), (722, 31921), (724, 31927), (726, 31942), (737, 31984), (765, 32071),

(784, 32128), (788, 32146), (795, 32167), (796, 32176), (797, 32182), (798, 32188), (801, 32200), (824, 32305), (827, 32323), (833, 32356), (853, 32443), (860, 32473), (863, 32479), (878, 32539), (900, 32632), (901, 32647), (908, 32689), (923, 32803),

Gene: Glexan_24 Start: 21900, Stop: 24296, Start Num: 148

Candidate Starts for Glexan_24:

(Start: 148 @21900 has 132 MA's), (248, 22077), (259, 22098), (342, 22245), (382, 22386), (391, 22419), (404, 22452), (420, 22488), (479, 22581), (501, 22641), (508, 22659), (552, 22791), (598, 22968), (610, 23013), (672, 23187), (677, 23208), (688, 23247), (691, 23268), (695, 23283), (734, 23439), (737, 23457), (752, 23511), (780, 23595), (862, 23919), (912, 24150), (926, 24234), (933, 24267),

Gene: GodPhather_25 Start: 27493, Stop: 30207, Start Num: 76

Candidate Starts for GodPhather_25:

(Start: 76 @27493 has 4 MA's), (101, 27562), (126, 27595), (135, 27616), (162, 27673), (185, 27703), (192, 27721), (237, 27814), (238, 27817), (261, 27871), (299, 27955), (313, 27991), (319, 28009), (321, 28012), (336, 28060), (351, 28099), (369, 28153), (381, 28207), (385, 28219), (392, 28243), (402, 28267), (408, 28279), (415, 28294), (438, 28351), (447, 28375), (470, 28432), (491, 28477), (518, 28552), (539, 28603), (553, 28660), (556, 28681), (575, 28741), (583, 28777), (584, 28780), (599, 28858), (607, 28894), (616, 28924), (620, 28939), (652, 29047), (668, 29095), (670, 29101), (673, 29110), (675, 29116), (690, 29185), (699, 29227), (704, 29254), (722, 29317), (724, 29323), (726, 29338), (729, 29347), (737, 29380), (776, 29494), (784, 29524), (788, 29542), (795, 29563), (796, 29572), (797, 29578), (798, 29584), (801, 29596), (824, 29701), (827, 29719), (833, 29752), (837, 29773), (853, 29839), (860, 29869), (863, 29875), (878, 29935), (884, 29953), (900, 30028), (903, 30049), (908, 30085), (923, 30199),

Gene: GodSpeed_23 Start: 20676, Stop: 23147, Start Num: 97

Candidate Starts for GodSpeed_23:

(Start: 97 @20676 has 9 MA's), (147, 20784), (220, 20904), (257, 20982), (376, 21270), (389, 21315), (398, 21330), (431, 21396), (465, 21453), (502, 21543), (507, 21558), (537, 21639), (557, 21714), (576, 21771), (582, 21795), (590, 21831), (642, 22038), (666, 22092), (670, 22113), (695, 22215), (719, 22308), (722, 22326), (733, 22368), (757, 22473), (787, 22539), (798, 22581), (813, 22644), (816, 22653), (823, 22692), (841, 22779), (909, 23085), (911, 23121), (914, 23130),

Gene: Godines_32 Start: 29971, Stop: 32691, Start Num: 75

Candidate Starts for Godines_32:

(Start: 75 @29971 has 36 MA's), (94, 30025), (117, 30064), (126, 30082), (138, 30109), (149, 30133), (152, 30136), (166, 30169), (225, 30277), (237, 30298), (238, 30301), (261, 30355), (288, 30415), (299, 30439), (313, 30475), (331, 30523), (336, 30544), (351, 30583), (362, 30622), (369, 30637), (381, 30691), (385, 30703), (392, 30727), (402, 30751), (408, 30763), (415, 30778), (422, 30793), (438, 30835), (446, 30853), (458, 30892), (470, 30916), (539, 31087), (556, 31165), (575, 31225), (583, 31261), (584, 31264), (599, 31342), (607, 31378), (613, 31402), (620, 31423), (673, 31594), (675, 31600), (699, 31711), (704, 31738), (722, 31801), (724, 31807), (726, 31822), (737, 31864), (765, 31951), (776, 31978), (784, 32008), (788, 32026), (795, 32047), (796, 32056), (797, 32062), (798, 32068), (801, 32080), (824, 32185), (827, 32203), (833, 32236), (853, 32323), (860, 32353), (863, 32359), (878, 32419), (900, 32512), (901, 32527), (908, 32569), (923, 32683),

Gene: Goku_26 Start: 21998, Stop: 24394, Start Num: 148

Candidate Starts for Goku_26:

(Start: 148 @21998 has 132 MA's), (248, 22175), (259, 22196), (342, 22343), (382, 22484), (391, 22517), (404, 22550), (420, 22586), (479, 22679), (501, 22739), (508, 22757), (538, 22838), (598, 23066), (610, 23111), (677, 23306), (679, 23312), (682, 23321), (691, 23366), (695, 23381), (734, 23537), (737, 23555), (740, 23564), (755, 23618), (780, 23693), (781, 23696), (832, 23906), (834,

23918), (871, 24032), (912, 24248), (926, 24332), (931, 24356), (933, 24365),

Gene: GoldenSpark_28 Start: 22274, Stop: 24670, Start Num: 148

Candidate Starts for GoldenSpark_28:

(Start: 148 @22274 has 132 MA's), (248, 22451), (259, 22472), (342, 22619), (391, 22793), (404, 22826), (420, 22862), (479, 22955), (501, 23015), (508, 23033), (552, 23165), (566, 23210), (598, 23342), (610, 23387), (630, 23447), (672, 23561), (677, 23582), (688, 23621), (691, 23642), (695, 23657), (732, 23807), (734, 23813), (737, 23831), (752, 23885), (780, 23969), (871, 24308), (912, 24524), (926, 24608), (933, 24641),

Gene: Goldilocks_27 Start: 21694, Stop: 24090, Start Num: 148

Candidate Starts for Goldilocks_27:

(Start: 148 @21694 has 132 MA's), (248, 21871), (259, 21892), (342, 22039), (382, 22180), (391, 22213), (404, 22246), (420, 22282), (479, 22375), (501, 22435), (508, 22453), (552, 22585), (566, 22630), (598, 22762), (610, 22807), (630, 22867), (672, 22981), (677, 23002), (688, 23041), (691, 23062), (695, 23077), (732, 23227), (734, 23233), (737, 23251), (752, 23305), (780, 23389), (807, 23482), (871, 23728), (912, 23944), (926, 24028), (933, 24061),

Gene: Gonephishing_34 Start: 28088, Stop: 30448, Start Num: 204

Candidate Starts for Gonephishing_34:

(Start: 100 @27893 has 238 MA's), (204, 28088), (222, 28124), (233, 28139), (257, 28187), (307, 28298), (308, 28301), (325, 28331), (330, 28346), (357, 28424), (362, 28448), (380, 28514), (392, 28559), (404, 28589), (407, 28595), (416, 28613), (428, 28637), (432, 28646), (456, 28679), (461, 28685), (479, 28715), (495, 28754), (498, 28766), (501, 28775), (507, 28790), (508, 28793), (548, 28904), (549, 28907), (550, 28916), (551, 28922), (554, 28937), (555, 28940), (573, 28991), (576, 29003), (585, 29036), (598, 29102), (610, 29147), (611, 29150), (621, 29177), (623, 29183), (636, 29237), (637, 29240), (674, 29327), (677, 29342), (681, 29354), (682, 29357), (697, 29423), (705, 29468), (707, 29477), (724, 29537), (725, 29540), (734, 29576), (737, 29594), (743, 29606), (745, 29615), (751, 29642), (776, 29711), (780, 29729), (784, 29738), (786, 29750), (797, 29786), (804, 29816), (809, 29837), (816, 29861), (823, 29897), (833, 29951), (849, 30011), (858, 30053), (896, 30188), (900, 30212), (908, 30266), (912, 30314), (922, 30356), (925, 30380), (926, 30383),

Gene: GooberAzure_28 Start: 22274, Stop: 24670, Start Num: 148

Candidate Starts for GooberAzure_28:

(Start: 148 @22274 has 132 MA's), (248, 22451), (259, 22472), (342, 22619), (382, 22760), (391, 22793), (404, 22826), (420, 22862), (479, 22955), (501, 23015), (508, 23033), (552, 23165), (566, 23210), (598, 23342), (610, 23387), (630, 23447), (672, 23561), (677, 23582), (688, 23621), (691, 23642), (695, 23657), (732, 23807), (734, 23813), (737, 23831), (752, 23885), (780, 23969), (807, 24062), (871, 24308), (912, 24524), (926, 24608), (933, 24641),

Gene: Gorge_18 Start: 17383, Stop: 19926, Start Num: 100

Candidate Starts for Gorge_18:

(Start: 100 @17383 has 238 MA's), (113, 17404), (123, 17425), (142, 17464), (188, 17533), (194, 17542), (196, 17545), (204, 17563), (233, 17611), (257, 17659), (307, 17770), (308, 17773), (326, 17806), (330, 17818), (357, 17896), (373, 17962), (382, 17995), (399, 18049), (404, 18061), (431, 18115), (432, 18118), (436, 18127), (462, 18160), (486, 18199), (488, 18202), (493, 18217), (495, 18220), (504, 18247), (506, 18253), (507, 18256), (508, 18259), (517, 18286), (522, 18304), (523, 18307), (550, 18382), (554, 18403), (555, 18406), (564, 18433), (573, 18457), (585, 18502), (586, 18505), (594, 18556), (611, 18619), (614, 18628), (622, 18652), (664, 18757), (665, 18760), (677, 18811), (679, 18817), (681, 18823), (682, 18826), (691, 18871), (695, 18886), (701, 18913), (705, 18937), (719, 18988), (724, 19006), (725, 19009), (726, 19021), (743, 19075), (780, 19198), (798, 19261), (814, 19324), (828, 19399), (885, 19600), (921, 19828), (928, 19867), (929, 19870),

Gene: Greep_27 Start: 22604, Stop: 25000, Start Num: 148

Candidate Starts for Greep_27:

(Start: 148 @22604 has 132 MA's), (248, 22781), (259, 22802), (342, 22949), (382, 23090), (391, 23123), (404, 23156), (420, 23192), (479, 23285), (501, 23345), (508, 23363), (552, 23495), (566, 23540), (598, 23672), (610, 23717), (672, 23891), (677, 23912), (688, 23951), (691, 23972), (695, 23987), (734, 24143), (737, 24161), (752, 24215), (780, 24299), (807, 24392), (871, 24638), (912, 24854), (926, 24938), (933, 24971),

Gene: Grimmer_19 Start: 18060, Stop: 20597, Start Num: 100

Candidate Starts for Grimmer_19:

(Start: 100 @18060 has 238 MA's), (113, 18081), (Start: 125 @18102 has 1 MA's), (142, 18141), (188, 18210), (194, 18219), (196, 18222), (204, 18240), (233, 18288), (307, 18447), (308, 18450), (330, 18495), (357, 18573), (361, 18594), (362, 18597), (380, 18663), (404, 18738), (407, 18744), (428, 18786), (431, 18792), (432, 18795), (456, 18828), (461, 18834), (479, 18864), (488, 18885), (498, 18915), (501, 18924), (540, 19032), (545, 19044), (548, 19053), (549, 19056), (550, 19065), (551, 19071), (554, 19086), (555, 19089), (561, 19110), (573, 19140), (576, 19152), (585, 19185), (586, 19188), (598, 19251), (610, 19296), (611, 19299), (621, 19326), (623, 19332), (636, 19386), (637, 19389), (652, 19416), (677, 19491), (681, 19503), (682, 19506), (697, 19572), (701, 19593), (702, 19596), (705, 19617), (724, 19686), (725, 19689), (734, 19725), (737, 19743), (745, 19764), (776, 19860), (780, 19878), (784, 19887), (786, 19899), (797, 19935), (804, 19965), (823, 20046), (833, 20100), (858, 20202), (896, 20337), (900, 20361), (908, 20415), (918, 20484), (925, 20529), (926, 20532),

Gene: Guanica15_27 Start: 20098, Stop: 22530, Start Num: 151

Candidate Starts for Guanica15_27:

(Start: 151 @20098 has 97 MA's), (171, 20146), (174, 20149), (182, 20158), (339, 20458), (346, 20479), (431, 20719), (473, 20821), (482, 20845), (483, 20851), (498, 20890), (548, 21043), (561, 21100), (565, 21109), (577, 21160), (621, 21346), (624, 21355), (625, 21361), (636, 21406), (641, 21424), (670, 21499), (682, 21541), (691, 21580), (692, 21586), (695, 21595), (700, 21616), (709, 21664), (724, 21709), (726, 21724), (745, 21793), (755, 21835), (785, 21916), (808, 22009), (813, 22030), (833, 22126), (894, 22354), (901, 22408), (904, 22429), (912, 22501), (916, 22519),

Gene: Gumball_29 Start: 24266, Stop: 26536, Start Num: 291

Candidate Starts for Gumball_29:

(Start: 291 @24266 has 22 MA's), (340, 24401), (344, 24410), (392, 24584), (394, 24590), (399, 24602), (465, 24755), (474, 24770), (482, 24785), (594, 25166), (595, 25172), (608, 25217), (631, 25304), (680, 25430), (694, 25505), (696, 25511), (705, 25559), (710, 25589), (717, 25613), (764, 25802), (775, 25829), (789, 25877), (806, 25949), (816, 25988), (818, 26009), (821, 26024), (825, 26042), (829, 26072), (850, 26156), (907, 26357), (912, 26399), (937, 26525),

Gene: Guppsters_19 Start: 17584, Stop: 20109, Start Num: 100

Candidate Starts for Guppsters_19:

(Start: 100 @17584 has 238 MA's), (Start: 151 @17674 has 97 MA's), (188, 17734), (194, 17743), (196, 17746), (204, 17764), (233, 17812), (256, 17857), (307, 17971), (308, 17974), (318, 17995), (326, 18007), (330, 18019), (357, 18097), (373, 18163), (382, 18196), (399, 18250), (404, 18262), (431, 18316), (432, 18319), (436, 18328), (462, 18361), (488, 18403), (493, 18418), (504, 18448), (506, 18454), (507, 18457), (508, 18460), (517, 18487), (522, 18505), (523, 18508), (550, 18583), (554, 18604), (555, 18607), (564, 18634), (573, 18658), (576, 18670), (594, 18757), (611, 18820), (614, 18829), (622, 18853), (664, 18958), (665, 18961), (677, 19012), (679, 19018), (681, 19024), (682, 19027), (691, 19072), (695, 19087), (701, 19114), (705, 19138), (707, 19147), (724, 19207), (725, 19210), (726, 19222), (737, 19264), (743, 19276), (780, 19399), (798, 19462), (814, 19525), (828, 19600), (885, 19801), (912, 19972), (921, 20011), (928, 20050), (929, 20053),

Gene: Hades_18 Start: 17406, Stop: 19958, Start Num: 100

Candidate Starts for Hades_18:

(Start: 100 @17406 has 238 MA's), (Start: 151 @17496 has 97 MA's), (188, 17556), (194, 17565), (196, 17568), (204, 17586), (233, 17634), (256, 17679), (307, 17793), (308, 17796), (314, 17808), (326, 17829), (329, 17838), (330, 17841), (357, 17919), (373, 17985), (382, 18018), (392, 18054), (402, 18078), (431, 18138), (432, 18141), (442, 18159), (486, 18222), (488, 18225), (495, 18243), (501, 18264), (508, 18282), (517, 18309), (523, 18330), (538, 18363), (550, 18405), (551, 18411), (552, 18414), (555, 18429), (564, 18456), (566, 18459), (573, 18480), (576, 18492), (585, 18525), (606, 18618), (636, 18726), (643, 18750), (652, 18756), (663, 18774), (664, 18777), (669, 18801), (677, 18831), (685, 18855), (691, 18891), (692, 18897), (695, 18906), (701, 18933), (713, 18996), (719, 19020), (720, 19035), (732, 19077), (746, 19128), (777, 19224), (780, 19239), (784, 19248), (791, 19272), (807, 19335), (816, 19371), (892, 19677), (900, 19722), (912, 19824),

Gene: Halena_20 Start: 19008, Stop: 21689, Start Num: 79

Candidate Starts for Halena_20:

(Start: 79 @19008 has 19 MA's), (81, 19014), (164, 19191), (182, 19221), (215, 19284), (249, 19359), (273, 19413), (304, 19473), (306, 19479), (333, 19545), (354, 19608), (363, 19641), (365, 19644), (372, 19668), (378, 19692), (380, 19698), (381, 19704), (395, 19752), (404, 19773), (412, 19788), (421, 19809), (437, 19848), (442, 19860), (450, 19878), (488, 19953), (497, 19983), (506, 20007), (507, 20010), (525, 20055), (542, 20106), (549, 20124), (561, 20178), (579, 20250), (583, 20262), (586, 20271), (592, 20313), (599, 20343), (607, 20379), (611, 20397), (617, 20412), (618, 20418), (628, 20451), (670, 20580), (673, 20589), (691, 20670), (699, 20706), (701, 20712), (726, 20817), (729, 20826), (734, 20841), (737, 20859), (750, 20901), (782, 20997), (784, 21003), (797, 21057), (798, 21063), (801, 21075), (826, 21186), (830, 21216), (831, 21222), (837, 21252), (853, 21318), (855, 21324), (860, 21348), (863, 21354), (864, 21360), (877, 21405), (878, 21414), (881, 21423), (893, 21462), (898, 21498), (900, 21507), (901, 21522), (913, 21618), (921, 21669), (922, 21675),

Gene: Hamulus_18 Start: 17403, Stop: 19940, Start Num: 100

Candidate Starts for Hamulus_18:

(96, 17391), (Start: 100 @17403 has 238 MA's), (113, 17424), (Start: 125 @17445 has 1 MA's), (142, 17484), (188, 17553), (194, 17562), (196, 17565), (204, 17583), (222, 17616), (233, 17631), (257, 17679), (303, 17784), (307, 17790), (308, 17793), (325, 17823), (329, 17835), (330, 17838), (357, 17916), (362, 17940), (380, 18006), (404, 18081), (407, 18087), (416, 18105), (428, 18129), (432, 18138), (456, 18171), (461, 18177), (479, 18207), (495, 18246), (498, 18258), (501, 18267), (507, 18282), (508, 18285), (548, 18396), (549, 18399), (550, 18408), (551, 18414), (554, 18429), (555, 18432), (561, 18453), (573, 18483), (576, 18495), (585, 18528), (598, 18594), (610, 18639), (611, 18642), (621, 18669), (623, 18675), (636, 18729), (637, 18732), (674, 18819), (677, 18834), (681, 18846), (682, 18849), (697, 18915), (705, 18960), (707, 18969), (724, 19029), (725, 19032), (734, 19068), (737, 19086), (743, 19098), (745, 19107), (751, 19134), (776, 19203), (780, 19221), (784, 19230), (786, 19242), (797, 19278), (804, 19308), (809, 19329), (816, 19353), (823, 19389), (833, 19443), (849, 19503), (858, 19545), (896, 19680), (900, 19704), (908, 19758), (912, 19806), (922, 19848), (925, 19872), (926, 19875),

Gene: HanKaySha_27 Start: 22026, Stop: 24422, Start Num: 148

Candidate Starts for HanKaySha_27:

(Start: 148 @22026 has 132 MA's), (248, 22203), (259, 22224), (342, 22371), (391, 22545), (404, 22578), (420, 22614), (479, 22707), (501, 22767), (508, 22785), (552, 22917), (566, 22962), (598, 23094), (610, 23139), (630, 23199), (672, 23313), (677, 23334), (688, 23373), (691, 23394), (695, 23409), (732, 23559), (734, 23565), (737, 23583), (752, 23637), (780, 23721), (807, 23814), (871, 24060), (912, 24276), (926, 24360), (933, 24393),

Gene: Hannaconda_33 Start: 26378, Stop: 28873, Start Num: 100

Candidate Starts for Hannaconda_33:

(Start: 100 @26378 has 238 MA's), (204, 26573), (222, 26609), (233, 26624), (285, 26711), (290, 26726), (308, 26762), (309, 26768), (330, 26801), (335, 26813), (389, 26984), (392, 26993), (404, 27017), (431, 27071), (456, 27107), (461, 27113), (479, 27143), (490, 27173), (498, 27194), (501, 27203), (507, 27218), (531, 27287), (555, 27368), (556, 27377), (566, 27398), (567, 27401), (576, 27431), (586, 27467), (594, 27518), (596, 27527), (598, 27530), (606, 27557), (609, 27566), (614, 27587), (636, 27665), (637, 27668), (669, 27740), (679, 27776), (681, 27782), (690, 27824), (691, 27830), (701, 27872), (702, 27875), (705, 27896), (706, 27902), (707, 27905), (716, 27935), (750, 28076), (752, 28085), (755, 28094), (767, 28127), (776, 28151), (777, 28154), (780, 28169), (786, 28190), (797, 28226), (798, 28232), (799, 28238), (805, 28259), (812, 28286), (840, 28421), (857, 28493), (860, 28499), (871, 28517), (896, 28616), (912, 28733), (927, 28814), (929, 28817), (933, 28844),

Gene: Harella_25 Start: 22416, Stop: 24812, Start Num: 148

Candidate Starts for Harella_25:

(Start: 148 @22416 has 132 MA's), (248, 22593), (259, 22614), (342, 22761), (382, 22902), (391, 22935), (404, 22968), (420, 23004), (479, 23097), (501, 23157), (508, 23175), (552, 23307), (598, 23484), (610, 23529), (672, 23703), (677, 23724), (688, 23763), (691, 23784), (695, 23799), (734, 23955), (737, 23973), (752, 24027), (780, 24111), (862, 24435), (912, 24666), (926, 24750), (933, 24783),

Gene: Harley_18 Start: 17393, Stop: 19930, Start Num: 100

Candidate Starts for Harley_18:

(Start: 100 @17393 has 238 MA's), (113, 17414), (Start: 125 @17435 has 1 MA's), (142, 17474), (188, 17543), (194, 17552), (196, 17555), (204, 17573), (233, 17621), (307, 17780), (308, 17783), (330, 17828), (361, 17927), (362, 17930), (380, 17996), (404, 18071), (407, 18077), (416, 18095), (428, 18119), (431, 18125), (432, 18128), (456, 18161), (461, 18167), (479, 18197), (488, 18218), (495, 18236), (501, 18257), (540, 18365), (545, 18377), (548, 18386), (549, 18389), (550, 18398), (551, 18404), (554, 18419), (555, 18422), (561, 18443), (576, 18485), (585, 18518), (586, 18521), (598, 18584), (610, 18629), (611, 18632), (623, 18665), (636, 18719), (637, 18722), (652, 18749), (677, 18824), (681, 18836), (682, 18839), (697, 18905), (701, 18926), (702, 18929), (705, 18950), (719, 19001), (724, 19019), (725, 19022), (732, 19052), (737, 19076), (743, 19088), (745, 19097), (776, 19193), (780, 19211), (784, 19220), (786, 19232), (797, 19268), (804, 19298), (807, 19307), (809, 19319), (816, 19343), (823, 19379), (849, 19493), (858, 19535), (896, 19670), (900, 19694), (908, 19748), (912, 19796), (918, 19817), (925, 19862), (926, 19865),

Gene: Hawkeye_32 Start: 24298, Stop: 27204, Start Num: 32

Candidate Starts for Hawkeye_32:

(Start: 32 @24298 has 1 MA's), (44, 24391), (49, 24412), (55, 24433), (58, 24442), (119, 24658), (295, 25009), (334, 25105), (358, 25180), (456, 25429), (473, 25456), (531, 25609), (540, 25633), (551, 25672), (613, 25903), (615, 25906), (652, 26014), (677, 26089), (692, 26155), (737, 26347), (743, 26359), (755, 26410), (797, 26542), (846, 26761), (901, 26992), (914, 27076),

Gene: Hedgerow_32 Start: 30073, Stop: 32793, Start Num: 75

Candidate Starts for Hedgerow_32:

(Start: 75 @30073 has 36 MA's), (94, 30127), (117, 30166), (138, 30211), (149, 30235), (152, 30238), (166, 30271), (225, 30379), (237, 30400), (238, 30403), (261, 30457), (288, 30517), (299, 30541), (313, 30577), (331, 30625), (336, 30646), (351, 30685), (362, 30724), (369, 30739), (381, 30793), (385, 30805), (392, 30829), (402, 30853), (408, 30865), (415, 30880), (422, 30895), (438, 30937), (446, 30955), (458, 30994), (470, 31018), (539, 31189), (556, 31267), (575, 31327), (583, 31363), (584, 31366), (599, 31444), (607, 31480), (613, 31504), (620, 31525), (673, 31696), (675, 31702), (699, 31813), (704, 31840), (722, 31903), (724, 31909), (726, 31924), (737, 31966), (765, 32053), (776, 32080), (784, 32110), (788, 32128), (795, 32149), (796, 32158), (797, 32164), (798, 32170), (801, 32182), (824, 32287), (827, 32305), (833, 32338), (853, 32425), (860, 32455), (863, 32461),

(878, 32521), (900, 32614), (901, 32629), (908, 32671), (923, 32785),

Gene: HedwigODU_27 Start: 20881, Stop: 23313, Start Num: 151

Candidate Starts for HedwigODU_27:

(Start: 151 @20881 has 97 MA's), (214, 20980), (339, 21241), (346, 21262), (416, 21469), (431, 21502), (439, 21532), (473, 21604), (482, 21628), (498, 21673), (548, 21826), (556, 21871), (561, 21883), (565, 21892), (577, 21943), (619, 22123), (624, 22138), (641, 22207), (646, 22219), (682, 22324), (691, 22363), (692, 22369), (695, 22378), (715, 22459), (726, 22507), (746, 22582), (755, 22618), (785, 22699), (792, 22720), (813, 22813), (833, 22909), (872, 23056), (882, 23098), (894, 23137), (904, 23212),

Gene: Hegedechwinu_19 Start: 17254, Stop: 19785, Start Num: 100

Candidate Starts for Hegedechwinu_19:

(96, 17242), (Start: 100 @17254 has 238 MA's), (113, 17275), (Start: 125 @17296 has 1 MA's), (142, 17335), (188, 17404), (194, 17413), (196, 17416), (204, 17434), (222, 17467), (233, 17482), (257, 17524), (307, 17635), (308, 17638), (325, 17668), (330, 17683), (357, 17761), (380, 17851), (392, 17896), (404, 17926), (407, 17932), (416, 17950), (428, 17974), (432, 17983), (456, 18016), (461, 18022), (479, 18052), (495, 18091), (498, 18103), (501, 18112), (507, 18127), (508, 18130), (548, 18241), (549, 18244), (550, 18253), (551, 18259), (554, 18274), (555, 18277), (561, 18298), (573, 18328), (576, 18340), (585, 18373), (610, 18484), (611, 18487), (621, 18514), (623, 18520), (636, 18574), (637, 18577), (677, 18679), (681, 18691), (682, 18694), (697, 18760), (702, 18784), (705, 18805), (707, 18814), (724, 18874), (725, 18877), (734, 18913), (737, 18931), (743, 18943), (745, 18952), (751, 18979), (776, 19048), (780, 19066), (784, 19075), (786, 19087), (797, 19123), (804, 19153), (809, 19174), (816, 19198), (823, 19234), (833, 19288), (849, 19348), (858, 19390), (880, 19468), (896, 19525), (900, 19549), (908, 19603), (912, 19651), (922, 19693), (925, 19717), (926, 19720),

Gene: Helpful_31 Start: 24316, Stop: 26586, Start Num: 291

Candidate Starts for Helpful_31:

(Start: 291 @24316 has 22 MA's), (340, 24451), (344, 24460), (392, 24634), (394, 24640), (399, 24652), (465, 24805), (474, 24820), (482, 24835), (594, 25216), (595, 25222), (608, 25267), (631, 25354), (696, 25561), (705, 25609), (710, 25639), (717, 25663), (764, 25852), (775, 25879), (789, 25927), (806, 25999), (816, 26038), (818, 26059), (821, 26074), (825, 26092), (829, 26122), (850, 26206), (907, 26407), (912, 26449), (937, 26575),

Gene: Henry_26 Start: 22283, Stop: 24679, Start Num: 148

Candidate Starts for Henry_26:

(Start: 148 @22283 has 132 MA's), (248, 22460), (259, 22481), (342, 22628), (382, 22769), (391, 22802), (404, 22835), (420, 22871), (479, 22964), (501, 23024), (508, 23042), (556, 23198), (566, 23219), (594, 23339), (598, 23351), (610, 23396), (677, 23591), (682, 23606), (691, 23651), (695, 23666), (734, 23822), (737, 23840), (740, 23849), (780, 23978), (781, 23981), (832, 24191), (834, 24203), (871, 24317), (912, 24533), (926, 24617), (931, 24641), (933, 24650),

Gene: Highbury_27 Start: 21945, Stop: 24341, Start Num: 148

Candidate Starts for Highbury_27:

(Start: 148 @21945 has 132 MA's), (248, 22122), (259, 22143), (342, 22290), (382, 22431), (391, 22464), (404, 22497), (420, 22533), (479, 22626), (501, 22686), (508, 22704), (552, 22836), (566, 22881), (598, 23013), (610, 23058), (630, 23118), (672, 23232), (677, 23253), (688, 23292), (691, 23313), (695, 23328), (732, 23478), (734, 23484), (737, 23502), (752, 23556), (780, 23640), (807, 23733), (871, 23979), (912, 24195), (926, 24279), (933, 24312),

Gene: Hlubikazi_18 Start: 17495, Stop: 20032, Start Num: 100

Candidate Starts for Hlubikazi_18:

(Start: 100 @17495 has 238 MA's), (113, 17516), (Start: 125 @17537 has 1 MA's), (142, 17576), (188, 17645), (194, 17654), (196, 17657), (204, 17675), (233, 17723), (307, 17882), (308, 17885), (329, 17927), (330, 17930), (357, 18008), (361, 18029), (362, 18032), (380, 18098), (404, 18173), (407, 18179), (428, 18221), (431, 18227), (432, 18230), (456, 18263), (461, 18269), (479, 18299), (488, 18320), (498, 18350), (501, 18359), (540, 18467), (545, 18479), (548, 18488), (549, 18491), (550, 18500), (551, 18506), (554, 18521), (555, 18524), (561, 18545), (576, 18587), (585, 18620), (621, 18761), (623, 18767), (636, 18821), (637, 18824), (652, 18851), (677, 18926), (681, 18938), (682, 18941), (697, 19007), (702, 19031), (705, 19052), (707, 19061), (724, 19121), (725, 19124), (734, 19160), (737, 19178), (745, 19199), (751, 19226), (776, 19295), (780, 19313), (784, 19322), (786, 19334), (797, 19370), (804, 19400), (823, 19481), (849, 19595), (858, 19637), (896, 19772), (900, 19796), (908, 19850), (925, 19964), (926, 19967),

Gene: Holeinone_32 Start: 29953, Stop: 32673, Start Num: 75

Candidate Starts for Holeinone_32:

(Start: 75 @29953 has 36 MA's), (94, 30007), (117, 30046), (138, 30091), (149, 30115), (152, 30118), (166, 30151), (225, 30259), (237, 30280), (238, 30283), (261, 30337), (288, 30397), (299, 30421), (313, 30457), (331, 30505), (336, 30526), (351, 30565), (362, 30604), (369, 30619), (381, 30673), (385, 30685), (392, 30709), (402, 30733), (408, 30745), (415, 30760), (422, 30775), (438, 30817), (446, 30835), (458, 30874), (470, 30898), (539, 31069), (556, 31147), (575, 31207), (583, 31243), (584, 31246), (599, 31324), (607, 31360), (613, 31384), (620, 31405), (673, 31576), (675, 31582), (699, 31693), (704, 31720), (722, 31783), (724, 31789), (726, 31804), (737, 31846), (784, 31990), (788, 32008), (795, 32029), (796, 32038), (797, 32044), (798, 32050), (801, 32062), (824, 32167), (827, 32185), (833, 32218), (835, 32233), (853, 32305), (860, 32335), (863, 32341), (878, 32401), (900, 32494), (901, 32509), (908, 32551), (920, 32653), (923, 32665),

Gene: Holt_27 Start: 21564, Stop: 23960, Start Num: 148

Candidate Starts for Holt_27:

(Start: 148 @21564 has 132 MA's), (248, 21741), (259, 21762), (342, 21909), (382, 22050), (391, 22083), (404, 22116), (420, 22152), (479, 22245), (501, 22305), (508, 22323), (552, 22455), (566, 22500), (598, 22632), (610, 22677), (630, 22737), (672, 22851), (677, 22872), (688, 22911), (691, 22932), (695, 22947), (732, 23097), (734, 23103), (737, 23121), (752, 23175), (780, 23259), (807, 23352), (871, 23598), (912, 23814), (926, 23898), (933, 23931),

Gene: Homura_27 Start: 20912, Stop: 23344, Start Num: 151

Candidate Starts for Homura_27:

(Start: 151 @20912 has 97 MA's), (214, 21011), (339, 21272), (346, 21293), (416, 21500), (431, 21533), (439, 21563), (473, 21635), (482, 21659), (548, 21857), (556, 21902), (561, 21914), (565, 21923), (577, 21974), (619, 22154), (624, 22169), (641, 22238), (646, 22250), (670, 22313), (682, 22355), (691, 22394), (692, 22400), (695, 22409), (700, 22430), (715, 22490), (745, 22607), (755, 22649), (783, 22721), (785, 22730), (792, 22751), (808, 22823), (813, 22844), (833, 22940), (872, 23087), (894, 23168), (912, 23315),

Gene: Hoonter_28 Start: 22274, Stop: 24670, Start Num: 148

Candidate Starts for Hoonter_28:

(Start: 148 @22274 has 132 MA's), (248, 22451), (259, 22472), (342, 22619), (391, 22793), (404, 22826), (420, 22862), (479, 22955), (501, 23015), (508, 23033), (552, 23165), (566, 23210), (598, 23342), (610, 23387), (630, 23447), (672, 23561), (677, 23582), (688, 23621), (691, 23642), (695, 23657), (732, 23807), (734, 23813), (737, 23831), (752, 23885), (780, 23969), (807, 24062), (871, 24308), (912, 24524), (926, 24608), (933, 24641),

Gene: Hohey_28 Start: 22561, Stop: 24957, Start Num: 148

Candidate Starts for Hohey_28:

(Start: 148 @22561 has 132 MA's), (248, 22738), (259, 22759), (342, 22906), (391, 23080), (404, 23113), (420, 23149), (479, 23242), (501, 23302), (508, 23320), (552, 23452), (566, 23497), (598, 23629), (610, 23674), (630, 23734), (672, 23848), (677, 23869), (688, 23908), (691, 23929), (695, 23944), (732, 24094), (734, 24100), (737, 24118), (752, 24172), (780, 24256), (807, 24349), (871, 24595), (912, 24811), (926, 24895), (933, 24928),

Gene: Hosp_024 Start: 25768, Stop: 28263, Start Num: 105

Candidate Starts for Hosp_024:

(Start: 105 @25768 has 6 MA's), (130, 25825), (157, 25882), (220, 26002), (230, 26020), (259, 26092), (263, 26098), (292, 26152), (309, 26188), (376, 26371), (389, 26416), (404, 26455), (434, 26509), (463, 26557), (480, 26587), (489, 26614), (501, 26650), (507, 26668), (516, 26692), (523, 26716), (552, 26800), (563, 26836), (573, 26866), (582, 26902), (587, 26920), (636, 27127), (639, 27139), (642, 27148), (670, 27223), (671, 27226), (674, 27235), (682, 27265), (684, 27268), (691, 27310), (695, 27325), (714, 27406), (719, 27418), (724, 27442), (726, 27457), (728, 27463), (748, 27544), (784, 27634), (787, 27649), (833, 27859), (837, 27880), (843, 27898), (909, 28195),

Gene: HufflyPuff_25 Start: 22268, Stop: 24664, Start Num: 148

Candidate Starts for HufflyPuff_25:

(Start: 148 @22268 has 132 MA's), (248, 22445), (259, 22466), (342, 22613), (382, 22754), (391, 22787), (404, 22820), (420, 22856), (479, 22949), (501, 23009), (508, 23027), (552, 23159), (566, 23204), (598, 23336), (610, 23381), (630, 23441), (672, 23555), (677, 23576), (688, 23615), (691, 23636), (695, 23651), (732, 23801), (734, 23807), (737, 23825), (752, 23879), (780, 23963), (807, 24056), (871, 24302), (912, 24518), (926, 24602), (933, 24635),

Gene: Hyperbowlee_27 Start: 20912, Stop: 23344, Start Num: 151

Candidate Starts for Hyperbowlee_27:

(Start: 151 @20912 has 97 MA's), (214, 21011), (339, 21272), (346, 21293), (416, 21500), (431, 21533), (439, 21563), (473, 21635), (482, 21659), (548, 21857), (556, 21902), (561, 21914), (565, 21923), (577, 21974), (619, 22154), (624, 22169), (641, 22238), (646, 22250), (670, 22313), (682, 22355), (691, 22394), (692, 22400), (695, 22409), (700, 22430), (715, 22490), (745, 22607), (755, 22649), (783, 22721), (785, 22730), (792, 22751), (808, 22823), (813, 22844), (833, 22940), (872, 23087), (894, 23168), (912, 23315),

Gene: IHOP_26 Start: 22460, Stop: 24856, Start Num: 148

Candidate Starts for IHOP_26:

(Start: 148 @22460 has 132 MA's), (248, 22637), (259, 22658), (342, 22805), (382, 22946), (391, 22979), (404, 23012), (420, 23048), (479, 23141), (501, 23201), (508, 23219), (556, 23375), (566, 23396), (594, 23516), (598, 23528), (610, 23573), (677, 23768), (679, 23774), (682, 23783), (691, 23828), (695, 23843), (734, 23999), (737, 24017), (740, 24026), (755, 24080), (780, 24155), (781, 24158), (832, 24368), (834, 24380), (871, 24494), (912, 24710), (926, 24794), (931, 24818), (933, 24827),

Gene: IMpilo_18 Start: 17430, Stop: 19967, Start Num: 100

Candidate Starts for IMpilo_18:

(96, 17418), (Start: 100 @17430 has 238 MA's), (113, 17451), (Start: 125 @17472 has 1 MA's), (142, 17511), (188, 17580), (194, 17589), (196, 17592), (204, 17610), (222, 17643), (233, 17658), (257, 17706), (307, 17817), (308, 17820), (325, 17850), (329, 17862), (330, 17865), (357, 17943), (362, 17967), (380, 18033), (392, 18078), (404, 18108), (407, 18114), (416, 18132), (428, 18156), (432, 18165), (456, 18198), (461, 18204), (479, 18234), (495, 18273), (498, 18285), (501, 18294), (507, 18309), (508, 18312), (548, 18423), (549, 18426), (550, 18435), (551, 18441), (554, 18456), (555, 18459), (561, 18480), (573, 18510), (576, 18522), (585, 18555), (610, 18666), (611, 18669), (621, 18696), (623, 18702), (636, 18756), (637, 18759), (677, 18861), (681, 18873), (682, 18876), (697, 18942), (702, 18966), (705, 18987), (707, 18996), (724, 19056), (725, 19059), (734, 19095), (737,

19113), (743, 19125), (745, 19134), (751, 19161), (776, 19230), (780, 19248), (784, 19257), (786, 19269), (797, 19305), (804, 19335), (809, 19356), (816, 19380), (823, 19416), (833, 19470), (849, 19530), (858, 19572), (880, 19650), (896, 19707), (900, 19731), (908, 19785), (912, 19833), (922, 19875), (925, 19899), (926, 19902),

Gene: IbOuu_18 Start: 17397, Stop: 19934, Start Num: 100

Candidate Starts for IbOuu_18:

(96, 17385), (Start: 100 @17397 has 238 MA's), (113, 17418), (Start: 125 @17439 has 1 MA's), (142, 17478), (188, 17547), (194, 17556), (196, 17559), (204, 17577), (233, 17625), (257, 17673), (307, 17784), (308, 17787), (330, 17832), (357, 17910), (362, 17934), (380, 18000), (392, 18045), (404, 18075), (407, 18081), (416, 18099), (428, 18123), (432, 18132), (456, 18165), (461, 18171), (479, 18201), (495, 18240), (498, 18252), (501, 18261), (507, 18276), (508, 18279), (548, 18390), (549, 18393), (550, 18402), (551, 18408), (554, 18423), (555, 18426), (561, 18447), (573, 18477), (576, 18489), (585, 18522), (610, 18633), (611, 18636), (621, 18663), (623, 18669), (636, 18723), (637, 18726), (677, 18828), (681, 18840), (682, 18843), (697, 18909), (702, 18933), (705, 18954), (707, 18963), (724, 19023), (725, 19026), (734, 19062), (737, 19080), (745, 19101), (751, 19128), (776, 19197), (780, 19215), (784, 19224), (786, 19236), (797, 19272), (809, 19323), (814, 19341), (823, 19383), (833, 19437), (858, 19539), (896, 19674), (900, 19698), (908, 19752), (918, 19821), (925, 19866), (926, 19869),

Gene: Ibhubesi_18 Start: 17393, Stop: 19930, Start Num: 100

Candidate Starts for Ibhubesi_18:

(Start: 100 @17393 has 238 MA's), (113, 17414), (Start: 125 @17435 has 1 MA's), (142, 17474), (188, 17543), (194, 17552), (196, 17555), (204, 17573), (233, 17621), (307, 17780), (308, 17783), (330, 17828), (361, 17927), (362, 17930), (380, 17996), (404, 18071), (407, 18077), (416, 18095), (428, 18119), (431, 18125), (432, 18128), (456, 18161), (461, 18167), (479, 18197), (488, 18218), (495, 18236), (501, 18257), (540, 18365), (545, 18377), (548, 18386), (549, 18389), (550, 18398), (551, 18404), (554, 18419), (555, 18422), (561, 18443), (576, 18485), (585, 18518), (586, 18521), (598, 18584), (610, 18629), (611, 18632), (623, 18665), (636, 18719), (637, 18722), (652, 18749), (677, 18824), (681, 18836), (682, 18839), (697, 18905), (701, 18926), (702, 18929), (705, 18950), (719, 19001), (724, 19019), (725, 19022), (732, 19052), (737, 19076), (743, 19088), (745, 19097), (776, 19193), (780, 19211), (784, 19220), (786, 19232), (797, 19268), (804, 19298), (807, 19307), (809, 19319), (816, 19343), (823, 19379), (849, 19493), (858, 19535), (896, 19670), (900, 19694), (908, 19748), (912, 19796), (918, 19817), (925, 19862), (926, 19865),

Gene: Icee_25 Start: 21943, Stop: 24339, Start Num: 148

Candidate Starts for Icee_25:

(Start: 148 @21943 has 132 MA's), (248, 22120), (259, 22141), (342, 22288), (382, 22429), (391, 22462), (404, 22495), (420, 22531), (479, 22624), (501, 22684), (508, 22702), (538, 22783), (598, 23011), (610, 23056), (677, 23251), (679, 23257), (682, 23266), (691, 23311), (695, 23326), (734, 23482), (737, 23500), (740, 23509), (780, 23638), (781, 23641), (832, 23851), (834, 23863), (871, 23977), (912, 24193), (926, 24277), (931, 24301), (933, 24310),

Gene: Idergollasper_58 Start: 36096, Stop: 38606, Start Num: 114

Candidate Starts for Idergollasper_58:

(Start: 114 @36096 has 34 MA's), (128, 36129), (163, 36198), (165, 36201), (179, 36225), (196, 36249), (209, 36273), (222, 36306), (310, 36513), (315, 36525), (316, 36528), (368, 36675), (373, 36705), (380, 36729), (392, 36759), (393, 36762), (404, 36789), (416, 36813), (431, 36843), (468, 36900), (481, 36924), (495, 36960), (498, 36972), (507, 36996), (508, 36999), (520, 37041), (554, 37137), (555, 37140), (627, 37395), (677, 37539), (691, 37599), (704, 37671), (705, 37674), (730, 37770), (780, 37944), (786, 37965), (812, 38058), (815, 38070), (833, 38160), (854, 38235), (879, 38280), (917, 38481), (924, 38535), (929, 38550),

Gene: Illumine_27 Start: 20895, Stop: 23327, Start Num: 151

Candidate Starts for Illumine_27:

(Start: 151 @20895 has 97 MA's), (171, 20943), (214, 20994), (339, 21255), (346, 21276), (416, 21483), (431, 21516), (439, 21546), (473, 21618), (482, 21642), (498, 21687), (548, 21840), (561, 21897), (565, 21906), (574, 21942), (577, 21957), (619, 22137), (624, 22152), (641, 22221), (646, 22233), (670, 22296), (682, 22338), (691, 22377), (692, 22383), (695, 22392), (700, 22413), (715, 22473), (726, 22521), (742, 22578), (745, 22590), (755, 22632), (783, 22704), (785, 22713), (808, 22806), (813, 22827), (833, 22923), (846, 22977), (872, 23070), (894, 23151), (912, 23298),

Gene: Imara_56 Start: 35896, Stop: 38406, Start Num: 114

Candidate Starts for Imara_56:

(Start: 114 @35896 has 34 MA's), (128, 35929), (163, 35998), (165, 36001), (179, 36025), (196, 36049), (209, 36073), (222, 36106), (310, 36313), (315, 36325), (316, 36328), (368, 36475), (373, 36505), (380, 36529), (392, 36559), (393, 36562), (404, 36589), (416, 36613), (431, 36643), (468, 36700), (481, 36724), (495, 36760), (498, 36772), (507, 36796), (508, 36799), (520, 36841), (554, 36937), (555, 36940), (627, 37195), (677, 37339), (691, 37399), (704, 37471), (705, 37474), (730, 37570), (780, 37744), (786, 37765), (812, 37858), (815, 37870), (833, 37960), (854, 38035), (879, 38080), (917, 38281), (924, 38335), (929, 38350),

Gene: Inca_25 Start: 20963, Stop: 23359, Start Num: 148

Candidate Starts for Inca_25:

(Start: 148 @20963 has 132 MA's), (248, 21140), (259, 21161), (342, 21308), (382, 21449), (391, 21482), (404, 21515), (420, 21551), (479, 21644), (501, 21704), (508, 21722), (552, 21854), (566, 21899), (598, 22031), (610, 22076), (630, 22136), (672, 22250), (677, 22271), (688, 22310), (691, 22331), (695, 22346), (732, 22496), (734, 22502), (737, 22520), (752, 22574), (780, 22658), (807, 22751), (871, 22997), (912, 23213), (926, 23297), (933, 23330),

Gene: Indlulamithi_27 Start: 22936, Stop: 26442, Start Num: 1

Candidate Starts for Indlulamithi_27:

(Start: 1 @22936 has 1 MA's), (6, 23059), (7, 23110), (10, 23290), (17, 23401), (19, 23425), (20, 23434), (28, 23551), (29, 23554), (30, 23560), (33, 23572), (35, 23587), (38, 23596), (40, 23641), (160, 24019), (200, 24088), (230, 24154), (240, 24175), (244, 24181), (253, 24205), (346, 24430), (376, 24535), (407, 24619), (494, 24799), (496, 24808), (501, 24820), (512, 24853), (527, 24904), (541, 24940), (557, 25003), (573, 25045), (579, 25072), (592, 25126), (593, 25135), (605, 25180), (636, 25300), (645, 25330), (650, 25339), (652, 25342), (691, 25486), (699, 25522), (702, 25531), (706, 25558), (712, 25579), (728, 25639), (737, 25678), (745, 25702), (772, 25780), (871, 26194), (888, 26251), (897, 26293), (908, 26371),

Gene: Inky_27 Start: 20912, Stop: 23344, Start Num: 151

Candidate Starts for Inky_27:

(Start: 151 @20912 has 97 MA's), (214, 21011), (339, 21272), (346, 21293), (416, 21500), (431, 21533), (439, 21563), (473, 21635), (482, 21659), (548, 21857), (556, 21902), (561, 21914), (565, 21923), (577, 21974), (619, 22154), (624, 22169), (641, 22238), (646, 22250), (670, 22313), (682, 22355), (691, 22394), (692, 22400), (695, 22409), (700, 22430), (715, 22490), (745, 22607), (755, 22649), (783, 22721), (785, 22730), (792, 22751), (808, 22823), (813, 22844), (833, 22940), (872, 23087), (894, 23168), (912, 23315),

Gene: Inventum_18 Start: 17532, Stop: 20069, Start Num: 100

Candidate Starts for Inventum_18:

(Start: 100 @17532 has 238 MA's), (113, 17553), (Start: 125 @17574 has 1 MA's), (142, 17613), (188, 17682), (194, 17691), (196, 17694), (204, 17712), (233, 17760), (257, 17808), (307, 17919), (308, 17922), (330, 17967), (357, 18045), (362, 18069), (380, 18135), (404, 18210), (407, 18216), (416, 18234), (428, 18258), (432, 18267), (456, 18300), (461, 18306), (479, 18336), (488, 18357), (498,

18387), (501, 18396), (540, 18504), (545, 18516), (548, 18525), (549, 18528), (551, 18543), (554, 18558), (555, 18561), (561, 18582), (576, 18624), (585, 18657), (610, 18768), (611, 18771), (621, 18798), (623, 18804), (636, 18858), (637, 18861), (652, 18888), (677, 18963), (681, 18975), (682, 18978), (697, 19044), (701, 19065), (702, 19068), (705, 19089), (707, 19098), (719, 19140), (724, 19158), (725, 19161), (732, 19191), (737, 19215), (743, 19227), (745, 19236), (776, 19332), (780, 19350), (784, 19359), (786, 19371), (797, 19407), (804, 19437), (807, 19446), (809, 19458), (823, 19518), (833, 19572), (849, 19632), (858, 19674), (896, 19809), (900, 19833), (908, 19887), (912, 19935), (922, 19977), (925, 20001), (926, 20004),

Gene: IrishSherpFalk_19 Start: 18757, Stop: 21294, Start Num: 100

Candidate Starts for IrishSherpFalk_19:

(Start: 100 @18757 has 238 MA's), (113, 18778), (Start: 125 @18799 has 1 MA's), (142, 18838), (188, 18907), (194, 18916), (196, 18919), (204, 18937), (233, 18985), (303, 19138), (308, 19147), (330, 19192), (361, 19291), (362, 19294), (380, 19360), (404, 19435), (407, 19441), (416, 19459), (428, 19483), (431, 19489), (432, 19492), (456, 19525), (461, 19531), (479, 19561), (488, 19582), (498, 19612), (501, 19621), (507, 19636), (508, 19639), (548, 19750), (549, 19753), (550, 19762), (551, 19768), (554, 19783), (555, 19786), (561, 19807), (573, 19837), (576, 19849), (585, 19882), (610, 19993), (611, 19996), (621, 20023), (623, 20029), (636, 20083), (637, 20086), (674, 20173), (677, 20188), (681, 20200), (682, 20203), (697, 20269), (702, 20293), (705, 20314), (707, 20323), (724, 20383), (725, 20386), (734, 20422), (737, 20440), (743, 20452), (745, 20461), (751, 20488), (773, 20545), (776, 20557), (780, 20575), (784, 20584), (786, 20596), (797, 20632), (804, 20662), (807, 20671), (809, 20683), (823, 20743), (833, 20797), (849, 20857), (858, 20899), (896, 21034), (900, 21058), (908, 21112), (912, 21160), (922, 21202), (925, 21226), (926, 21229),

Gene: Island3_21 Start: 19089, Stop: 21620, Start Num: 109

Candidate Starts for Island3_21:

(Start: 109 @19089 has 2 MA's), (120, 19113), (168, 19224), (177, 19233), (196, 19260), (262, 19407), (361, 19674), (368, 19689), (373, 19719), (375, 19725), (380, 19743), (428, 19851), (461, 19902), (508, 20013), (509, 20016), (520, 20055), (538, 20088), (555, 20154), (576, 20214), (583, 20241), (585, 20247), (677, 20553), (691, 20613), (700, 20661), (701, 20664), (704, 20685), (705, 20688), (780, 20949), (814, 21072), (815, 21075), (833, 21165), (847, 21222), (854, 21243), (885, 21303), (919, 21504), (924, 21546),

Gene: ItsyBitsy1_32 Start: 29955, Stop: 32675, Start Num: 75

Candidate Starts for ItsyBitsy1_32:

(Start: 75 @29955 has 36 MA's), (94, 30009), (117, 30048), (138, 30093), (149, 30117), (152, 30120), (166, 30153), (225, 30261), (237, 30282), (238, 30285), (261, 30339), (288, 30399), (299, 30423), (313, 30459), (331, 30507), (336, 30528), (351, 30567), (369, 30621), (381, 30675), (385, 30687), (392, 30711), (402, 30735), (408, 30747), (415, 30762), (422, 30777), (438, 30819), (446, 30837), (458, 30876), (470, 30900), (539, 31071), (556, 31149), (575, 31209), (583, 31245), (584, 31248), (599, 31326), (607, 31362), (613, 31386), (620, 31407), (673, 31578), (699, 31695), (704, 31722), (722, 31785), (724, 31791), (726, 31806), (737, 31848), (765, 31935), (776, 31962), (784, 31992), (788, 32010), (795, 32031), (796, 32040), (797, 32046), (798, 32052), (801, 32064), (824, 32169), (827, 32187), (833, 32220), (853, 32307), (860, 32337), (863, 32343), (878, 32403), (900, 32496), (901, 32511), (908, 32553), (923, 32667),

Gene: JAWS_27 Start: 20866, Stop: 23298, Start Num: 151

Candidate Starts for JAWS_27:

(Start: 151 @20866 has 97 MA's), (214, 20965), (339, 21226), (346, 21247), (416, 21454), (431, 21487), (439, 21517), (473, 21589), (482, 21613), (548, 21811), (556, 21856), (561, 21868), (565, 21877), (577, 21928), (619, 22108), (624, 22123), (641, 22192), (646, 22204), (670, 22267), (682, 22309), (691, 22348), (692, 22354), (695, 22363), (700, 22384), (715, 22444), (745, 22561), (755, 22603), (783, 22675), (785, 22684), (792, 22705), (808, 22777), (813, 22798), (833, 22894), (872,

23041), (894, 23122), (912, 23269),

Gene: Jabbawokkie_26 Start: 17616, Stop: 20168, Start Num: 80

Candidate Starts for Jabbawokkie_26:

(77, 17607), (Start: 80 @17616 has 7 MA's), (Start: 100 @17676 has 238 MA's), (122, 17712), (177, 17811), (257, 17952), (285, 17991), (290, 18006), (308, 18042), (309, 18048), (311, 18051), (327, 18069), (335, 18093), (345, 18117), (346, 18120), (389, 18264), (392, 18273), (404, 18297), (416, 18321), (428, 18345), (431, 18351), (442, 18372), (449, 18375), (461, 18393), (479, 18426), (490, 18456), (498, 18477), (531, 18570), (538, 18585), (540, 18594), (548, 18615), (549, 18618), (556, 18660), (573, 18702), (574, 18705), (576, 18714), (583, 18741), (586, 18750), (592, 18789), (596, 18810), (598, 18813), (609, 18849), (614, 18870), (636, 18948), (637, 18951), (666, 19005), (681, 19065), (700, 19152), (702, 19158), (705, 19179), (716, 19215), (729, 19269), (732, 19278), (750, 19356), (755, 19374), (769, 19410), (770, 19413), (776, 19431), (780, 19449), (797, 19506), (799, 19518), (816, 19581), (823, 19614), (840, 19701), (852, 19749), (857, 19773), (871, 19809), (879, 19848), (890, 19887), (896, 19911), (899, 19932), (912, 20028), (918, 20049), (927, 20109), (929, 20112), (933, 20139),

Gene: JacoRen57_20 Start: 18844, Stop: 20730, Start Num: 411

Candidate Starts for JacoRen57_20:

(Start: 411 @18844 has 1 MA's), (448, 18928), (508, 19060), (534, 19135), (546, 19171), (547, 19174), (575, 19261), (578, 19279), (586, 19306), (595, 19363), (624, 19462), (653, 19543), (670, 19588), (683, 19633), (692, 19684), (693, 19693), (707, 19762), (719, 19816), (733, 19876), (753, 19960), (764, 19996), (774, 20017), (775, 20023), (778, 20032), (789, 20071), (816, 20182), (818, 20203), (829, 20266), (830, 20269), (839, 20311), (850, 20350), (925, 20665), (927, 20671), (930, 20680), (932, 20695), (934, 20704), (937, 20719),

Gene: JalFarm20_20 Start: 17767, Stop: 20304, Start Num: 100

Candidate Starts for JalFarm20_20:

(96, 17755), (Start: 100 @17767 has 238 MA's), (113, 17788), (Start: 125 @17809 has 1 MA's), (142, 17848), (188, 17917), (194, 17926), (196, 17929), (204, 17947), (222, 17980), (233, 17995), (257, 18043), (307, 18154), (308, 18157), (325, 18187), (329, 18199), (330, 18202), (357, 18280), (362, 18304), (380, 18370), (392, 18415), (404, 18445), (407, 18451), (416, 18469), (428, 18493), (432, 18502), (456, 18535), (461, 18541), (479, 18571), (495, 18610), (498, 18622), (501, 18631), (507, 18646), (508, 18649), (548, 18760), (549, 18763), (550, 18772), (551, 18778), (554, 18793), (555, 18796), (561, 18817), (573, 18847), (576, 18859), (585, 18892), (610, 19003), (611, 19006), (621, 19033), (623, 19039), (636, 19093), (637, 19096), (674, 19183), (677, 19198), (681, 19210), (682, 19213), (697, 19279), (702, 19303), (705, 19324), (707, 19333), (724, 19393), (725, 19396), (734, 19432), (737, 19450), (743, 19462), (745, 19471), (751, 19498), (776, 19567), (780, 19585), (784, 19594), (786, 19606), (797, 19642), (804, 19672), (809, 19693), (816, 19717), (823, 19753), (833, 19807), (849, 19867), (858, 19909), (880, 19987), (896, 20044), (900, 20068), (908, 20122), (912, 20170), (922, 20212), (925, 20236), (926, 20239),

Gene: James_18 Start: 17397, Stop: 19922, Start Num: 100

Candidate Starts for James_18:

(Start: 100 @17397 has 238 MA's), (113, 17418), (123, 17439), (142, 17478), (188, 17547), (194, 17556), (196, 17559), (204, 17577), (233, 17625), (257, 17673), (307, 17784), (308, 17787), (326, 17820), (330, 17832), (357, 17910), (373, 17976), (382, 18009), (399, 18063), (404, 18075), (431, 18129), (432, 18132), (436, 18141), (462, 18174), (486, 18213), (488, 18216), (493, 18231), (495, 18234), (504, 18261), (506, 18267), (507, 18270), (508, 18273), (517, 18300), (522, 18318), (523, 18321), (550, 18396), (554, 18417), (555, 18420), (564, 18447), (573, 18471), (585, 18516), (586, 18519), (594, 18570), (611, 18633), (614, 18642), (622, 18666), (664, 18771), (665, 18774), (677, 18825), (679, 18831), (681, 18837), (682, 18840), (691, 18885), (695, 18900), (701, 18927), (705, 18951), (719, 19002), (724, 19020), (725, 19023), (726, 19035), (743, 19089), (780, 19212), (798,

19275), (814, 19338), (828, 19413), (885, 19614), (921, 19824), (928, 19863), (929, 19866),

Gene: JangDynasty_58 Start: 36182, Stop: 38692, Start Num: 114

Candidate Starts for JangDynasty_58:

(Start: 114 @36182 has 34 MA's), (128, 36215), (163, 36284), (165, 36287), (179, 36311), (196, 36335), (209, 36359), (222, 36392), (310, 36599), (315, 36611), (316, 36614), (368, 36761), (373, 36791), (380, 36815), (392, 36845), (393, 36848), (404, 36875), (416, 36899), (431, 36929), (468, 36986), (481, 37010), (495, 37046), (498, 37058), (507, 37082), (508, 37085), (520, 37127), (554, 37223), (555, 37226), (627, 37481), (677, 37625), (691, 37685), (704, 37757), (705, 37760), (730, 37856), (780, 38030), (786, 38051), (812, 38144), (815, 38156), (833, 38246), (854, 38321), (879, 38366), (917, 38567), (924, 38621), (929, 38636),

Gene: Jant_18 Start: 17553, Stop: 20090, Start Num: 100

Candidate Starts for Jant_18:

(96, 17541), (Start: 100 @17553 has 238 MA's), (113, 17574), (Start: 125 @17595 has 1 MA's), (142, 17634), (188, 17703), (194, 17712), (196, 17715), (204, 17733), (222, 17766), (233, 17781), (257, 17829), (303, 17934), (307, 17940), (308, 17943), (325, 17973), (329, 17985), (330, 17988), (357, 18066), (362, 18090), (380, 18156), (392, 18201), (404, 18231), (407, 18237), (416, 18255), (428, 18279), (432, 18288), (456, 18321), (461, 18327), (479, 18357), (495, 18396), (498, 18408), (501, 18417), (507, 18432), (508, 18435), (548, 18546), (549, 18549), (550, 18558), (551, 18564), (554, 18579), (555, 18582), (561, 18603), (573, 18633), (576, 18645), (585, 18678), (610, 18789), (611, 18792), (621, 18819), (623, 18825), (636, 18879), (637, 18882), (677, 18984), (681, 18996), (682, 18999), (697, 19065), (702, 19089), (705, 19110), (707, 19119), (724, 19179), (725, 19182), (734, 19218), (737, 19236), (743, 19248), (745, 19257), (751, 19284), (776, 19353), (780, 19371), (784, 19380), (786, 19392), (797, 19428), (804, 19458), (809, 19479), (816, 19503), (823, 19539), (833, 19593), (849, 19653), (858, 19695), (896, 19830), (900, 19854), (912, 19956), (922, 19998), (925, 20022), (926, 20025),

Gene: Jacob_18 Start: 17405, Stop: 19957, Start Num: 100

Candidate Starts for Jacob_18:

(Start: 100 @17405 has 238 MA's), (142, 17486), (188, 17555), (194, 17564), (196, 17567), (204, 17585), (233, 17633), (256, 17678), (307, 17792), (308, 17795), (314, 17807), (326, 17828), (329, 17837), (330, 17840), (346, 17888), (357, 17918), (373, 17984), (382, 18017), (392, 18053), (402, 18077), (431, 18137), (432, 18140), (442, 18158), (486, 18221), (488, 18224), (495, 18242), (501, 18263), (508, 18281), (517, 18308), (523, 18329), (538, 18362), (550, 18404), (551, 18410), (552, 18413), (555, 18428), (564, 18455), (566, 18458), (573, 18479), (576, 18491), (585, 18524), (606, 18617), (636, 18725), (643, 18749), (652, 18755), (663, 18773), (664, 18776), (669, 18800), (677, 18830), (685, 18854), (691, 18890), (692, 18896), (695, 18905), (701, 18932), (713, 18995), (719, 19019), (720, 19034), (732, 19076), (746, 19127), (777, 19223), (780, 19238), (784, 19247), (791, 19271), (807, 19334), (816, 19370), (892, 19676), (900, 19721), (912, 19823),

Gene: Jarvi_27 Start: 20912, Stop: 23344, Start Num: 151

Candidate Starts for Jarvi_27:

(Start: 151 @20912 has 97 MA's), (214, 21011), (339, 21272), (346, 21293), (416, 21500), (431, 21533), (439, 21563), (473, 21635), (482, 21659), (548, 21857), (556, 21902), (561, 21914), (565, 21923), (577, 21974), (619, 22154), (624, 22169), (641, 22238), (646, 22250), (670, 22313), (682, 22355), (691, 22394), (692, 22400), (695, 22409), (700, 22430), (715, 22490), (745, 22607), (755, 22649), (783, 22721), (785, 22730), (792, 22751), (808, 22823), (813, 22844), (833, 22940), (872, 23087), (894, 23168), (912, 23315),

Gene: Jayhawk_27 Start: 20879, Stop: 23311, Start Num: 151

Candidate Starts for Jayhawk_27:

(Start: 151 @20879 has 97 MA's), (214, 20978), (339, 21239), (346, 21260), (416, 21467), (431, 21500), (439, 21530), (473, 21602), (482, 21626), (498, 21671), (548, 21824), (556, 21869), (561, 21881), (565, 21890), (577, 21941), (619, 22121), (624, 22136), (641, 22205), (646, 22217), (682, 22322), (691, 22361), (692, 22367), (695, 22376), (715, 22457), (726, 22505), (746, 22580), (755, 22616), (785, 22697), (792, 22718), (813, 22811), (833, 22907), (872, 23054), (882, 23096), (894, 23135), (904, 23210),

Gene: JeTaime_28 Start: 23085, Stop: 25481, Start Num: 148

Candidate Starts for JeTaime_28:

(Start: 148 @23085 has 132 MA's), (248, 23262), (259, 23283), (342, 23430), (391, 23604), (404, 23637), (420, 23673), (479, 23766), (501, 23826), (508, 23844), (552, 23976), (566, 24021), (598, 24153), (610, 24198), (630, 24258), (672, 24372), (677, 24393), (688, 24432), (691, 24453), (695, 24468), (732, 24618), (734, 24624), (737, 24642), (752, 24696), (780, 24780), (807, 24873), (871, 25119), (912, 25335), (926, 25419), (933, 25452),

Gene: Jeckyll_27 Start: 20912, Stop: 23344, Start Num: 151

Candidate Starts for Jeckyll_27:

(Start: 151 @20912 has 97 MA's), (214, 21011), (339, 21272), (346, 21293), (416, 21500), (431, 21533), (439, 21563), (473, 21635), (482, 21659), (548, 21857), (556, 21902), (561, 21914), (565, 21923), (577, 21974), (619, 22154), (624, 22169), (641, 22238), (646, 22250), (670, 22313), (682, 22355), (691, 22394), (692, 22400), (695, 22409), (700, 22430), (715, 22490), (745, 22607), (755, 22649), (783, 22721), (785, 22730), (792, 22751), (808, 22823), (813, 22844), (833, 22940), (872, 23087), (894, 23168), (912, 23315),

Gene: Jennelsea_18 Start: 17353, Stop: 20217, Start Num: 53

Candidate Starts for Jennelsea_18:

(50, 17341), (Start: 53 @17353 has 9 MA's), (62, 17374), (64, 17395), (69, 17434), (87, 17503), (89, 17512), (91, 17515), (116, 17566), (155, 17656), (175, 17701), (221, 17791), (224, 17800), (226, 17803), (236, 17824), (242, 17836), (255, 17869), (301, 18004), (319, 18052), (326, 18067), (333, 18088), (347, 18130), (352, 18145), (355, 18154), (362, 18181), (370, 18187), (381, 18232), (384, 18241), (392, 18256), (397, 18268), (400, 18277), (403, 18283), (408, 18292), (420, 18319), (430, 18337), (464, 18430), (475, 18451), (488, 18475), (513, 18541), (518, 18562), (526, 18580), (539, 18613), (544, 18637), (546, 18640), (556, 18691), (572, 18727), (575, 18751), (583, 18787), (586, 18796), (588, 18811), (592, 18838), (599, 18868), (607, 18904), (613, 18928), (640, 19027), (656, 19066), (673, 19120), (699, 19237), (704, 19264), (722, 19327), (724, 19333), (726, 19348), (737, 19390), (765, 19477), (776, 19504), (784, 19534), (788, 19552), (796, 19582), (798, 19594), (801, 19606), (824, 19711), (827, 19729), (833, 19762), (853, 19849), (860, 19879), (863, 19885), (878, 19945), (881, 19954), (884, 19963), (900, 20038), (903, 20059), (908, 20095), (923, 20209),

Gene: Jeon_24 Start: 27235, Stop: 29949, Start Num: 76

Candidate Starts for Jeon_24:

(Start: 76 @27235 has 4 MA's), (101, 27304), (126, 27337), (135, 27358), (162, 27415), (185, 27445), (192, 27463), (237, 27556), (238, 27559), (261, 27613), (299, 27697), (313, 27733), (319, 27751), (321, 27754), (336, 27802), (351, 27841), (369, 27895), (381, 27949), (385, 27961), (392, 27985), (402, 28009), (408, 28021), (415, 28036), (438, 28093), (447, 28117), (470, 28174), (479, 28189), (491, 28219), (518, 28294), (539, 28345), (553, 28402), (556, 28423), (575, 28483), (583, 28519), (584, 28522), (599, 28600), (607, 28636), (616, 28666), (620, 28681), (652, 28789), (668, 28837), (670, 28843), (673, 28852), (675, 28858), (690, 28927), (699, 28969), (704, 28996), (722, 29059), (724, 29065), (726, 29080), (729, 29089), (737, 29122), (776, 29236), (784, 29266), (788, 29284), (796, 29314), (797, 29320), (798, 29326), (801, 29338), (824, 29443), (827, 29461), (833, 29494), (837, 29515), (853, 29581), (860, 29611), (863, 29617), (878, 29677), (884, 29695), (900, 29770), (908, 29827), (923, 29941),

Gene: Jinglebell_17 Start: 17634, Stop: 20171, Start Num: 100

Candidate Starts for Jinglebell_17:

(Start: 100 @17634 has 238 MA's), (113, 17655), (Start: 125 @17676 has 1 MA's), (142, 17715), (188, 17784), (194, 17793), (196, 17796), (204, 17814), (233, 17862), (307, 18021), (308, 18024), (329, 18066), (330, 18069), (357, 18147), (361, 18168), (362, 18171), (380, 18237), (382, 18246), (392, 18282), (404, 18312), (407, 18318), (428, 18360), (431, 18366), (432, 18369), (456, 18402), (461, 18408), (479, 18438), (488, 18459), (498, 18489), (501, 18498), (540, 18606), (545, 18618), (548, 18627), (549, 18630), (550, 18639), (551, 18645), (554, 18660), (555, 18663), (561, 18684), (576, 18726), (585, 18759), (621, 18900), (623, 18906), (636, 18960), (637, 18963), (652, 18990), (677, 19065), (681, 19077), (682, 19080), (697, 19146), (701, 19167), (702, 19170), (705, 19191), (719, 19242), (724, 19260), (725, 19263), (732, 19293), (737, 19317), (743, 19329), (776, 19434), (780, 19452), (784, 19461), (786, 19473), (797, 19509), (804, 19539), (809, 19560), (816, 19584), (823, 19620), (849, 19734), (858, 19776), (880, 19854), (896, 19911), (900, 19935), (908, 19989), (912, 20037), (922, 20079), (925, 20103), (926, 20106),

Gene: Job42_21 Start: 19082, Stop: 21619, Start Num: 100

Candidate Starts for Job42_21:

(Start: 100 @19082 has 238 MA's), (Start: 125 @19124 has 1 MA's), (Start: 151 @19172 has 97 MA's), (188, 19232), (194, 19241), (196, 19244), (204, 19262), (222, 19295), (233, 19310), (257, 19358), (307, 19469), (308, 19472), (325, 19502), (329, 19514), (330, 19517), (357, 19595), (362, 19619), (380, 19685), (392, 19730), (404, 19760), (407, 19766), (416, 19784), (428, 19808), (432, 19817), (456, 19850), (461, 19856), (479, 19886), (495, 19925), (498, 19937), (501, 19946), (507, 19961), (508, 19964), (548, 20075), (549, 20078), (550, 20087), (551, 20093), (554, 20108), (555, 20111), (561, 20132), (573, 20162), (576, 20174), (585, 20207), (610, 20318), (611, 20321), (621, 20348), (623, 20354), (636, 20408), (637, 20411), (677, 20513), (681, 20525), (682, 20528), (697, 20594), (702, 20618), (705, 20639), (707, 20648), (724, 20708), (725, 20711), (734, 20747), (737, 20765), (743, 20777), (745, 20786), (751, 20813), (776, 20882), (780, 20900), (784, 20909), (786, 20921), (797, 20957), (804, 20987), (809, 21008), (816, 21032), (823, 21068), (833, 21122), (849, 21182), (858, 21224), (880, 21302), (896, 21359), (900, 21383), (908, 21437), (912, 21485), (922, 21527), (925, 21551), (926, 21554),

Gene: JoeDirt_20 Start: 18979, Stop: 21660, Start Num: 79

Candidate Starts for JoeDirt_20:

(Start: 79 @18979 has 19 MA's), (81, 18985), (164, 19162), (182, 19192), (215, 19255), (249, 19330), (304, 19444), (306, 19450), (333, 19516), (354, 19579), (363, 19612), (365, 19615), (372, 19639), (378, 19663), (380, 19669), (381, 19675), (395, 19723), (404, 19744), (412, 19759), (421, 19780), (437, 19819), (442, 19831), (450, 19849), (488, 19924), (497, 19954), (506, 19978), (507, 19981), (525, 20026), (542, 20077), (549, 20095), (561, 20149), (579, 20221), (583, 20233), (586, 20242), (589, 20260), (592, 20284), (599, 20314), (607, 20350), (617, 20383), (618, 20389), (635, 20455), (662, 20521), (673, 20560), (691, 20641), (699, 20677), (701, 20683), (726, 20788), (729, 20797), (734, 20812), (737, 20830), (750, 20872), (782, 20968), (784, 20974), (797, 21028), (798, 21034), (801, 21046), (826, 21157), (830, 21187), (831, 21193), (853, 21289), (855, 21295), (860, 21319), (863, 21325), (864, 21331), (877, 21376), (878, 21385), (881, 21394), (893, 21433), (898, 21469), (900, 21478), (901, 21493), (913, 21589), (921, 21640), (922, 21646),

Gene: JoeyJr_18 Start: 17568, Stop: 20105, Start Num: 100

Candidate Starts for JoeyJr_18:

(96, 17556), (Start: 100 @17568 has 238 MA's), (113, 17589), (Start: 125 @17610 has 1 MA's), (142, 17649), (188, 17718), (194, 17727), (196, 17730), (204, 17748), (233, 17796), (257, 17844), (307, 17955), (308, 17958), (330, 18003), (357, 18081), (362, 18105), (380, 18171), (392, 18216), (404, 18246), (407, 18252), (416, 18270), (428, 18294), (432, 18303), (456, 18336), (461, 18342), (479, 18372), (495, 18411), (498, 18423), (501, 18432), (507, 18447), (508, 18450), (548, 18561), (549, 18564), (550, 18573), (551, 18579), (554, 18594), (555, 18597), (561, 18618), (573, 18648), (576,

18660), (585, 18693), (610, 18804), (611, 18807), (621, 18834), (623, 18840), (636, 18894), (637, 18897), (677, 18999), (681, 19011), (682, 19014), (697, 19080), (702, 19104), (705, 19125), (707, 19134), (724, 19194), (725, 19197), (734, 19233), (737, 19251), (745, 19272), (751, 19299), (776, 19368), (780, 19386), (784, 19395), (786, 19407), (797, 19443), (809, 19494), (814, 19512), (823, 19554), (833, 19608), (858, 19710), (896, 19845), (900, 19869), (908, 19923), (918, 19992), (925, 20037), (926, 20040),

Gene: JohnLord_29 Start: 26190, Stop: 28943, Start Num: 74

Candidate Starts for JohnLord_29:

(60, 26097), (Start: 74 @26190 has 3 MA's), (104, 26268), (126, 26304), (138, 26331), (149, 26355), (189, 26424), (206, 26460), (220, 26493), (225, 26505), (238, 26529), (284, 26643), (313, 26721), (328, 26763), (333, 26775), (336, 26790), (351, 26826), (362, 26868), (378, 26922), (392, 26970), (403, 27000), (405, 27003), (448, 27111), (470, 27165), (479, 27180), (486, 27195), (513, 27264), (518, 27285), (526, 27303), (539, 27336), (544, 27360), (546, 27363), (556, 27414), (572, 27450), (575, 27474), (583, 27510), (586, 27519), (588, 27534), (592, 27561), (599, 27591), (607, 27627), (611, 27645), (612, 27648), (616, 27657), (652, 27783), (668, 27831), (699, 27963), (704, 27990), (719, 28041), (722, 28053), (724, 28059), (737, 28116), (749, 28155), (765, 28203), (776, 28230), (777, 28233), (784, 28260), (788, 28278), (796, 28308), (798, 28320), (801, 28332), (825, 28440), (827, 28455), (833, 28488), (837, 28509), (853, 28575), (860, 28605), (863, 28611), (878, 28671), (881, 28680), (884, 28689), (900, 28764), (901, 28779), (903, 28785), (908, 28821), (923, 28935),

Gene: Jolie1_026 Start: 27564, Stop: 30065, Start Num: 105

Candidate Starts for Jolie1_026:

(Start: 105 @27564 has 6 MA's), (115, 27585), (130, 27621), (157, 27678), (220, 27798), (230, 27816), (259, 27888), (263, 27894), (292, 27948), (309, 27984), (376, 28167), (389, 28212), (404, 28251), (434, 28305), (489, 28410), (501, 28446), (507, 28464), (523, 28512), (552, 28596), (563, 28632), (573, 28662), (582, 28698), (587, 28716), (636, 28923), (639, 28935), (642, 28944), (670, 29019), (671, 29022), (682, 29061), (691, 29106), (695, 29121), (714, 29202), (719, 29214), (722, 29232), (724, 29238), (726, 29253), (728, 29259), (748, 29340), (784, 29430), (787, 29445), (804, 29517), (814, 29556), (833, 29655), (909, 29997),

Gene: Jolie2_22 Start: 19776, Stop: 22241, Start Num: 97

Candidate Starts for Jolie2_22:

(70, 19692), (73, 19707), (Start: 79 @19728 has 19 MA's), (Start: 97 @19776 has 9 MA's), (147, 19884), (158, 19905), (175, 19938), (341, 20241), (404, 20433), (431, 20484), (459, 20529), (501, 20628), (505, 20640), (507, 20646), (531, 20712), (537, 20727), (552, 20778), (587, 20898), (588, 20907), (636, 21105), (647, 21141), (664, 21180), (695, 21309), (703, 21354), (719, 21405), (733, 21465), (744, 21510), (784, 21621), (792, 21648), (814, 21747), (815, 21750), (832, 21843), (843, 21885), (870, 21990), (909, 22179), (912, 22221),

Gene: Joy99_27 Start: 20841, Stop: 23273, Start Num: 151

Candidate Starts for Joy99_27:

(Start: 151 @20841 has 97 MA's), (214, 20940), (339, 21201), (346, 21222), (416, 21429), (431, 21462), (439, 21492), (473, 21564), (482, 21588), (548, 21786), (556, 21831), (561, 21843), (565, 21852), (577, 21903), (619, 22083), (624, 22098), (641, 22167), (646, 22179), (670, 22242), (682, 22284), (691, 22323), (692, 22329), (695, 22338), (700, 22359), (715, 22419), (745, 22536), (755, 22578), (783, 22650), (792, 22680), (808, 22752), (813, 22773), (833, 22869), (872, 23016), (894, 23097), (912, 23244),

Gene: Juice456_20 Start: 18519, Stop: 21056, Start Num: 100

Candidate Starts for Juice456_20:

(96, 18507), (Start: 100 @18519 has 238 MA's), (113, 18540), (Start: 125 @18561 has 1 MA's), (142, 18600), (188, 18669), (194, 18678), (196, 18681), (204, 18699), (222, 18732), (233, 18747), (257,

18795), (307, 18906), (308, 18909), (325, 18939), (329, 18951), (330, 18954), (357, 19032), (362, 19056), (380, 19122), (392, 19167), (404, 19197), (407, 19203), (416, 19221), (428, 19245), (432, 19254), (456, 19287), (461, 19293), (479, 19323), (495, 19362), (498, 19374), (501, 19383), (507, 19398), (508, 19401), (548, 19512), (549, 19515), (550, 19524), (551, 19530), (554, 19545), (555, 19548), (561, 19569), (573, 19599), (576, 19611), (585, 19644), (610, 19755), (611, 19758), (621, 19785), (623, 19791), (636, 19845), (637, 19848), (674, 19935), (677, 19950), (681, 19962), (682, 19965), (697, 20031), (702, 20055), (705, 20076), (707, 20085), (719, 20127), (724, 20145), (725, 20148), (734, 20184), (737, 20202), (743, 20214), (745, 20223), (751, 20250), (776, 20319), (780, 20337), (784, 20346), (786, 20358), (797, 20394), (804, 20424), (809, 20445), (816, 20469), (823, 20505), (833, 20559), (849, 20619), (858, 20661), (880, 20739), (896, 20796), (900, 20820), (908, 20874), (912, 20922), (922, 20964), (925, 20988), (926, 20991),

Gene: Juniper1_18 Start: 17394, Stop: 19931, Start Num: 100

Candidate Starts for Juniper1_18:

(Start: 100 @17394 has 238 MA's), (113, 17415), (Start: 125 @17436 has 1 MA's), (142, 17475), (188, 17544), (194, 17553), (196, 17556), (204, 17574), (222, 17607), (233, 17622), (307, 17781), (308, 17784), (330, 17829), (357, 17907), (362, 17931), (380, 17997), (404, 18072), (407, 18078), (428, 18120), (431, 18126), (432, 18129), (456, 18162), (461, 18168), (479, 18198), (488, 18219), (498, 18249), (501, 18258), (540, 18366), (545, 18378), (548, 18387), (549, 18390), (550, 18399), (551, 18405), (554, 18420), (555, 18423), (561, 18444), (576, 18486), (585, 18519), (610, 18630), (611, 18633), (621, 18660), (623, 18666), (636, 18720), (637, 18723), (652, 18750), (658, 18759), (677, 18825), (681, 18837), (682, 18840), (697, 18906), (701, 18927), (702, 18930), (705, 18951), (719, 19002), (724, 19020), (725, 19023), (732, 19053), (737, 19077), (743, 19089), (745, 19098), (776, 19194), (780, 19212), (784, 19221), (786, 19233), (797, 19269), (804, 19299), (809, 19320), (816, 19344), (823, 19380), (849, 19494), (858, 19536), (896, 19671), (900, 19695), (908, 19749), (918, 19818), (925, 19863), (926, 19866), (928, 19872),

Gene: JustASigh_21 Start: 19828, Stop: 22794, Start Num: 45

Candidate Starts for JustASigh_21:

(Start: 45 @19828 has 1 MA's), (47, 19837), (81, 19999), (101, 20059), (139, 20134), (207, 20269), (232, 20326), (299, 20494), (317, 20542), (319, 20548), (321, 20551), (351, 20638), (366, 20686), (378, 20746), (392, 20794), (408, 20827), (422, 20860), (519, 21124), (536, 21172), (556, 21259), (561, 21271), (571, 21292), (575, 21319), (582, 21352), (583, 21355), (599, 21436), (602, 21448), (607, 21472), (654, 21637), (655, 21640), (668, 21682), (675, 21703), (678, 21718), (681, 21727), (691, 21778), (699, 21814), (722, 21904), (726, 21925), (737, 21967), (741, 21976), (750, 22009), (776, 22081), (788, 22129), (798, 22171), (801, 22183), (817, 22252), (833, 22339), (836, 22357), (853, 22426), (873, 22489), (875, 22495), (884, 22537), (893, 22570), (904, 22648), (908, 22672),

Gene: Kaleb_32 Start: 30088, Stop: 32808, Start Num: 75

Candidate Starts for Kaleb_32:

(Start: 75 @30088 has 36 MA's), (94, 30142), (117, 30181), (138, 30226), (149, 30250), (152, 30253), (166, 30286), (225, 30394), (237, 30415), (238, 30418), (261, 30472), (288, 30532), (299, 30556), (313, 30592), (331, 30640), (336, 30661), (351, 30700), (362, 30739), (369, 30754), (381, 30808), (385, 30820), (392, 30844), (402, 30868), (408, 30880), (415, 30895), (422, 30910), (438, 30952), (446, 30970), (458, 31009), (470, 31033), (539, 31204), (556, 31282), (575, 31342), (583, 31378), (584, 31381), (599, 31459), (607, 31495), (613, 31519), (620, 31540), (673, 31711), (675, 31717), (699, 31828), (704, 31855), (722, 31918), (724, 31924), (726, 31939), (737, 31981), (765, 32068), (784, 32125), (788, 32143), (795, 32164), (796, 32173), (797, 32179), (798, 32185), (801, 32197), (824, 32302), (827, 32320), (833, 32353), (853, 32440), (860, 32470), (863, 32476), (878, 32536), (900, 32629), (901, 32644), (908, 32686), (923, 32800),

Gene: KandZ_30 Start: 24416, Stop: 26686, Start Num: 291

Candidate Starts for KandZ_30:

(Start: 291 @24416 has 22 MA's), (340, 24551), (344, 24560), (392, 24734), (394, 24740), (399, 24752), (465, 24905), (474, 24920), (482, 24935), (594, 25316), (595, 25322), (608, 25367), (631, 25454), (694, 25655), (696, 25661), (705, 25709), (710, 25739), (717, 25763), (764, 25952), (775, 25979), (789, 26027), (806, 26099), (816, 26138), (818, 26159), (821, 26174), (825, 26192), (829, 26222), (850, 26306), (907, 26507), (912, 26549), (937, 26675),

Gene: Kanye_28 Start: 23270, Stop: 25666, Start Num: 148

Candidate Starts for Kanye_28:

(Start: 148 @23270 has 132 MA's), (248, 23447), (259, 23468), (342, 23615), (382, 23756), (391, 23789), (404, 23822), (420, 23858), (479, 23951), (501, 24011), (508, 24029), (552, 24161), (566, 24206), (598, 24338), (610, 24383), (630, 24443), (672, 24557), (677, 24578), (688, 24617), (691, 24638), (695, 24653), (732, 24803), (734, 24809), (737, 24827), (752, 24881), (780, 24965), (807, 25058), (871, 25304), (912, 25520), (926, 25604), (933, 25637),

Gene: Karhdo_18 Start: 17528, Stop: 20065, Start Num: 100

Candidate Starts for Karhdo_18:

(96, 17516), (Start: 100 @17528 has 238 MA's), (113, 17549), (Start: 125 @17570 has 1 MA's), (142, 17609), (188, 17678), (194, 17687), (196, 17690), (204, 17708), (222, 17741), (233, 17756), (257, 17804), (307, 17915), (308, 17918), (325, 17948), (329, 17960), (330, 17963), (357, 18041), (362, 18065), (380, 18131), (392, 18176), (404, 18206), (407, 18212), (416, 18230), (428, 18254), (432, 18263), (456, 18296), (461, 18302), (479, 18332), (495, 18371), (498, 18383), (501, 18392), (507, 18407), (508, 18410), (548, 18521), (549, 18524), (550, 18533), (551, 18539), (554, 18554), (555, 18557), (561, 18578), (573, 18608), (576, 18620), (585, 18653), (610, 18764), (611, 18767), (621, 18794), (623, 18800), (636, 18854), (637, 18857), (674, 18944), (677, 18959), (681, 18971), (682, 18974), (697, 19040), (702, 19064), (705, 19085), (707, 19094), (719, 19136), (724, 19154), (725, 19157), (732, 19187), (737, 19211), (743, 19223), (745, 19232), (776, 19328), (780, 19346), (784, 19355), (786, 19367), (797, 19403), (804, 19433), (807, 19442), (809, 19454), (823, 19514), (833, 19568), (849, 19628), (858, 19670), (896, 19805), (900, 19829), (908, 19883), (912, 19931), (922, 19973), (925, 19997), (926, 20000),

Gene: KashFlow_30 Start: 26008, Stop: 28503, Start Num: 100

Candidate Starts for KashFlow_30:

(Start: 100 @26008 has 238 MA's), (204, 26203), (222, 26239), (233, 26254), (285, 26341), (290, 26356), (308, 26392), (309, 26398), (330, 26431), (335, 26443), (389, 26614), (392, 26623), (404, 26647), (431, 26701), (456, 26737), (461, 26743), (479, 26773), (490, 26803), (498, 26824), (501, 26833), (507, 26848), (531, 26917), (555, 26998), (556, 27007), (566, 27028), (567, 27031), (576, 27061), (586, 27097), (594, 27148), (596, 27157), (598, 27160), (606, 27187), (609, 27196), (614, 27217), (636, 27295), (637, 27298), (669, 27370), (679, 27406), (681, 27412), (690, 27454), (691, 27460), (701, 27502), (702, 27505), (705, 27526), (706, 27532), (707, 27535), (716, 27565), (750, 27706), (752, 27715), (755, 27724), (767, 27757), (776, 27781), (777, 27784), (780, 27799), (786, 27820), (797, 27856), (798, 27862), (799, 27868), (805, 27889), (812, 27916), (840, 28051), (857, 28123), (860, 28129), (871, 28147), (896, 28246), (912, 28363), (927, 28444), (929, 28447), (933, 28474),

Gene: KayaCho_26 Start: 27566, Stop: 30061, Start Num: 105

Candidate Starts for KayaCho_26:

(Start: 105 @27566 has 6 MA's), (130, 27623), (147, 27662), (191, 27737), (230, 27818), (259, 27890), (292, 27950), (309, 27986), (376, 28169), (389, 28214), (434, 28307), (463, 28355), (489, 28412), (501, 28448), (507, 28466), (517, 28493), (523, 28514), (552, 28598), (563, 28634), (573, 28664), (582, 28700), (587, 28718), (636, 28925), (639, 28937), (642, 28946), (668, 29015), (670, 29021), (671, 29024), (682, 29063), (691, 29108), (700, 29147), (714, 29204), (719, 29216), (724, 29240), (726, 29255), (728, 29261), (748, 29342), (787, 29447), (833, 29657), (837, 29678), (890, 29870), (909, 29993), (914, 30038),

Gene: Kenuha5_18 Start: 17523, Stop: 20015, Start Num: 100

Candidate Starts for Kenuha5_18:

(98, 17511), (Start: 100 @17523 has 238 MA's), (113, 17544), (Start: 125 @17565 has 1 MA's), (143, 17604), (188, 17673), (194, 17682), (196, 17685), (204, 17703), (222, 17736), (241, 17769), (257, 17802), (290, 17856), (308, 17892), (309, 17898), (311, 17901), (327, 17919), (330, 17931), (335, 17943), (345, 17967), (366, 18030), (389, 18114), (392, 18123), (404, 18147), (416, 18171), (428, 18195), (431, 18201), (442, 18222), (461, 18243), (479, 18273), (490, 18303), (498, 18324), (531, 18417), (538, 18432), (540, 18441), (548, 18462), (549, 18465), (573, 18549), (574, 18552), (576, 18561), (583, 18588), (586, 18597), (592, 18636), (596, 18657), (598, 18660), (609, 18696), (614, 18717), (636, 18795), (637, 18798), (666, 18852), (681, 18912), (702, 19005), (704, 19023), (705, 19026), (716, 19062), (729, 19116), (732, 19125), (750, 19203), (755, 19221), (769, 19257), (770, 19260), (776, 19278), (777, 19281), (780, 19296), (786, 19317), (797, 19353), (799, 19365), (816, 19428), (823, 19461), (840, 19548), (852, 19596), (857, 19620), (865, 19647), (871, 19656), (879, 19695), (890, 19734), (896, 19758), (899, 19779), (912, 19875), (918, 19896), (929, 19959), (933, 19986), (936, 19995),

Gene: Kersh_19 Start: 17568, Stop: 20060, Start Num: 100

Candidate Starts for Kersh_19:

(Start: 100 @17568 has 238 MA's), (113, 17589), (Start: 125 @17610 has 1 MA's), (143, 17649), (188, 17718), (194, 17727), (196, 17730), (204, 17748), (222, 17781), (241, 17814), (257, 17847), (290, 17901), (308, 17937), (311, 17946), (327, 17964), (335, 17988), (345, 18012), (376, 18120), (382, 18144), (389, 18159), (392, 18168), (404, 18192), (407, 18198), (416, 18216), (420, 18228), (424, 18234), (428, 18240), (431, 18246), (432, 18249), (436, 18258), (442, 18267), (456, 18282), (479, 18318), (495, 18357), (498, 18369), (501, 18378), (531, 18462), (555, 18543), (556, 18552), (567, 18576), (576, 18606), (586, 18642), (594, 18693), (596, 18702), (598, 18705), (609, 18741), (614, 18762), (636, 18840), (637, 18843), (666, 18897), (681, 18957), (700, 19044), (702, 19050), (705, 19071), (716, 19107), (729, 19161), (732, 19170), (750, 19248), (755, 19266), (769, 19302), (770, 19305), (776, 19323), (780, 19341), (797, 19398), (799, 19410), (816, 19473), (823, 19506), (840, 19593), (852, 19641), (857, 19665), (865, 19692), (871, 19701), (879, 19740), (890, 19779), (896, 19803), (899, 19824), (912, 19920), (918, 19941), (927, 20001), (929, 20004), (933, 20031),

Gene: Kheth_32 Start: 29973, Stop: 32693, Start Num: 75

Candidate Starts for Kheth_32:

(Start: 75 @29973 has 36 MA's), (94, 30027), (117, 30066), (138, 30111), (149, 30135), (152, 30138), (166, 30171), (225, 30279), (237, 30300), (238, 30303), (261, 30357), (288, 30417), (299, 30441), (313, 30477), (331, 30525), (336, 30546), (351, 30585), (362, 30624), (369, 30639), (381, 30693), (385, 30705), (392, 30729), (402, 30753), (408, 30765), (415, 30780), (422, 30795), (438, 30837), (446, 30855), (458, 30894), (470, 30918), (539, 31089), (556, 31167), (575, 31227), (583, 31263), (584, 31266), (599, 31344), (607, 31380), (613, 31404), (620, 31425), (673, 31596), (675, 31602), (699, 31713), (704, 31740), (722, 31803), (724, 31809), (726, 31824), (737, 31866), (765, 31953), (776, 31980), (784, 32010), (788, 32028), (795, 32049), (796, 32058), (797, 32064), (798, 32070), (801, 32082), (824, 32187), (827, 32205), (833, 32238), (853, 32325), (860, 32355), (863, 32361), (878, 32421), (900, 32514), (901, 32529), (908, 32571), (923, 32685),

Gene: KiSi_26 Start: 20041, Stop: 22500, Start Num: 151

Candidate Starts for KiSi_26:

(Start: 151 @20041 has 97 MA's), (171, 20089), (247, 20212), (274, 20269), (281, 20281), (330, 20374), (337, 20398), (356, 20449), (407, 20611), (448, 20722), (460, 20761), (473, 20785), (517, 20908), (540, 20980), (562, 21067), (578, 21133), (582, 21148), (605, 21250), (619, 21304), (634, 21364), (666, 21442), (667, 21454), (670, 21463), (682, 21505), (695, 21565), (718, 21652), (723, 21676), (739, 21748), (755, 21805), (792, 21916), (797, 21940), (802, 21961), (814, 22012), (842, 22141), (874, 22246), (912, 22471),

Gene: Kimberlium_20 Start: 18519, Stop: 21056, Start Num: 100

Candidate Starts for Kimberlium_20:

(96, 18507), (Start: 100 @18519 has 238 MA's), (113, 18540), (Start: 125 @18561 has 1 MA's), (142, 18600), (188, 18669), (194, 18678), (196, 18681), (204, 18699), (222, 18732), (233, 18747), (257, 18795), (307, 18906), (308, 18909), (325, 18939), (329, 18951), (330, 18954), (357, 19032), (362, 19056), (380, 19122), (392, 19167), (404, 19197), (407, 19203), (416, 19221), (428, 19245), (432, 19254), (456, 19287), (461, 19293), (479, 19323), (495, 19362), (498, 19374), (501, 19383), (507, 19398), (508, 19401), (548, 19512), (549, 19515), (550, 19524), (551, 19530), (554, 19545), (555, 19548), (561, 19569), (573, 19599), (576, 19611), (585, 19644), (610, 19755), (611, 19758), (621, 19785), (623, 19791), (636, 19845), (637, 19848), (674, 19935), (677, 19950), (681, 19962), (682, 19965), (697, 20031), (702, 20055), (705, 20076), (707, 20085), (719, 20127), (724, 20145), (725, 20148), (734, 20184), (737, 20202), (743, 20214), (745, 20223), (751, 20250), (776, 20319), (780, 20337), (784, 20346), (786, 20358), (797, 20394), (804, 20424), (809, 20445), (816, 20469), (823, 20505), (833, 20559), (849, 20619), (858, 20661), (880, 20739), (896, 20796), (900, 20820), (908, 20874), (912, 20922), (922, 20964), (925, 20988), (926, 20991),

Gene: Kimchi_28 Start: 22277, Stop: 24673, Start Num: 148

Candidate Starts for Kimchi_28:

(Start: 148 @22277 has 132 MA's), (248, 22454), (259, 22475), (342, 22622), (382, 22763), (391, 22796), (404, 22829), (420, 22865), (479, 22958), (501, 23018), (508, 23036), (552, 23168), (566, 23213), (598, 23345), (610, 23390), (630, 23450), (672, 23564), (677, 23585), (688, 23624), (691, 23645), (695, 23660), (732, 23810), (734, 23816), (737, 23834), (752, 23888), (780, 23972), (807, 24065), (871, 24311), (912, 24527), (926, 24611), (933, 24644),

Gene: KingJulian_18 Start: 17437, Stop: 19974, Start Num: 100

Candidate Starts for KingJulian_18:

(96, 17425), (Start: 100 @17437 has 238 MA's), (113, 17458), (Start: 125 @17479 has 1 MA's), (142, 17518), (188, 17587), (194, 17596), (196, 17599), (204, 17617), (222, 17650), (233, 17665), (257, 17713), (307, 17824), (308, 17827), (325, 17857), (329, 17869), (330, 17872), (357, 17950), (362, 17974), (380, 18040), (392, 18085), (404, 18115), (407, 18121), (416, 18139), (428, 18163), (432, 18172), (456, 18205), (461, 18211), (479, 18241), (495, 18280), (498, 18292), (501, 18301), (507, 18316), (508, 18319), (548, 18430), (549, 18433), (550, 18442), (551, 18448), (554, 18463), (555, 18466), (561, 18487), (573, 18517), (576, 18529), (585, 18562), (610, 18673), (611, 18676), (621, 18703), (623, 18709), (636, 18763), (637, 18766), (674, 18853), (677, 18868), (681, 18880), (682, 18883), (697, 18949), (702, 18973), (705, 18994), (707, 19003), (724, 19063), (725, 19066), (734, 19102), (737, 19120), (743, 19132), (745, 19141), (751, 19168), (776, 19237), (780, 19255), (784, 19264), (786, 19276), (797, 19312), (804, 19342), (809, 19363), (816, 19387), (823, 19423), (833, 19477), (849, 19537), (858, 19579), (880, 19657), (896, 19714), (900, 19738), (908, 19792), (912, 19840), (922, 19882), (925, 19906), (926, 19909),

Gene: KingMidas_19 Start: 18701, Stop: 21238, Start Num: 100

Candidate Starts for KingMidas_19:

(96, 18689), (Start: 100 @18701 has 238 MA's), (113, 18722), (Start: 125 @18743 has 1 MA's), (142, 18782), (188, 18851), (194, 18860), (196, 18863), (204, 18881), (233, 18929), (257, 18977), (307, 19088), (308, 19091), (330, 19136), (357, 19214), (362, 19238), (380, 19304), (392, 19349), (404, 19379), (407, 19385), (416, 19403), (428, 19427), (432, 19436), (456, 19469), (461, 19475), (479, 19505), (495, 19544), (498, 19556), (501, 19565), (507, 19580), (508, 19583), (548, 19694), (549, 19697), (550, 19706), (551, 19712), (554, 19727), (555, 19730), (561, 19751), (573, 19781), (576, 19793), (585, 19826), (610, 19937), (611, 19940), (621, 19967), (623, 19973), (636, 20027), (637, 20030), (677, 20132), (681, 20144), (682, 20147), (697, 20213), (702, 20237), (705, 20258), (707, 20267), (724, 20327), (725, 20330), (734, 20366), (737, 20384), (745, 20405), (751, 20432), (776, 20501), (780, 20519), (784, 20528), (786, 20540), (797, 20576), (809, 20627), (814, 20645), (823,

20687), (833, 20741), (858, 20843), (896, 20978), (900, 21002), (908, 21056), (918, 21125), (925, 21170), (926, 21173),

Gene: KingPhillip3_58 Start: 36111, Stop: 38621, Start Num: 114

Candidate Starts for KingPhillip3_58:

(Start: 114 @36111 has 34 MA's), (128, 36144), (163, 36213), (165, 36216), (179, 36240), (196, 36264), (209, 36288), (222, 36321), (310, 36528), (315, 36540), (316, 36543), (368, 36690), (373, 36720), (380, 36744), (392, 36774), (393, 36777), (404, 36804), (416, 36828), (431, 36858), (468, 36915), (481, 36939), (495, 36975), (498, 36987), (507, 37011), (508, 37014), (520, 37056), (554, 37152), (555, 37155), (627, 37410), (677, 37554), (691, 37614), (704, 37686), (705, 37689), (730, 37785), (780, 37959), (786, 37980), (812, 38073), (815, 38085), (833, 38175), (854, 38250), (879, 38295), (917, 38496), (924, 38550), (929, 38565),

Gene: Kingsley_19 Start: 17253, Stop: 19730, Start Num: 100

Candidate Starts for Kingsley_19:

(98, 17241), (Start: 100 @17253 has 238 MA's), (113, 17274), (Start: 125 @17295 has 1 MA's), (143, 17334), (188, 17403), (194, 17412), (196, 17415), (204, 17433), (222, 17466), (233, 17481), (285, 17568), (290, 17583), (308, 17619), (309, 17625), (330, 17658), (335, 17670), (389, 17841), (392, 17850), (404, 17874), (431, 17928), (456, 17964), (461, 17970), (479, 18000), (490, 18030), (498, 18051), (501, 18060), (531, 18144), (551, 18207), (555, 18225), (556, 18234), (566, 18255), (567, 18258), (573, 18276), (576, 18288), (583, 18315), (586, 18324), (594, 18375), (596, 18384), (598, 18387), (606, 18414), (609, 18423), (614, 18444), (636, 18522), (637, 18525), (679, 18633), (681, 18639), (691, 18687), (701, 18729), (702, 18732), (705, 18753), (706, 18759), (707, 18762), (716, 18792), (750, 18933), (755, 18951), (767, 18984), (776, 19008), (777, 19011), (780, 19026), (786, 19047), (797, 19083), (798, 19089), (805, 19116), (812, 19143), (840, 19278), (852, 19326), (857, 19350), (860, 19356), (871, 19374), (896, 19473), (899, 19494), (901, 19512), (912, 19590), (918, 19611), (929, 19674), (931, 19692), (936, 19710),

Gene: Koella_18 Start: 17365, Stop: 20229, Start Num: 53

Candidate Starts for Koella_18:

(50, 17353), (Start: 53 @17365 has 9 MA's), (62, 17386), (64, 17407), (69, 17446), (87, 17515), (89, 17524), (91, 17527), (116, 17578), (155, 17668), (175, 17713), (221, 17803), (224, 17812), (226, 17815), (236, 17836), (242, 17848), (255, 17881), (301, 18016), (319, 18064), (326, 18079), (333, 18100), (347, 18142), (352, 18157), (355, 18166), (362, 18193), (370, 18199), (381, 18244), (384, 18253), (392, 18268), (397, 18280), (400, 18289), (403, 18295), (408, 18304), (420, 18331), (430, 18349), (464, 18442), (475, 18463), (488, 18487), (513, 18553), (518, 18574), (526, 18592), (539, 18625), (544, 18649), (546, 18652), (556, 18703), (572, 18739), (575, 18763), (583, 18799), (586, 18808), (588, 18823), (592, 18850), (599, 18880), (607, 18916), (613, 18940), (640, 19039), (656, 19078), (673, 19132), (699, 19249), (704, 19276), (722, 19339), (724, 19345), (726, 19360), (737, 19402), (765, 19489), (776, 19516), (784, 19546), (788, 19564), (796, 19594), (798, 19606), (801, 19618), (824, 19723), (827, 19741), (833, 19774), (853, 19861), (860, 19891), (863, 19897), (878, 19957), (881, 19966), (884, 19975), (900, 20050), (903, 20071), (908, 20107), (923, 20221),

Gene: Kolhan_32 Start: 29967, Stop: 32687, Start Num: 75

Candidate Starts for Kolhan_32:

(Start: 75 @29967 has 36 MA's), (94, 30021), (117, 30060), (138, 30105), (149, 30129), (152, 30132), (166, 30165), (225, 30273), (237, 30294), (238, 30297), (261, 30351), (288, 30411), (299, 30435), (313, 30471), (331, 30519), (336, 30540), (351, 30579), (362, 30618), (369, 30633), (381, 30687), (385, 30699), (392, 30723), (402, 30747), (408, 30759), (415, 30774), (422, 30789), (438, 30831), (446, 30849), (458, 30888), (470, 30912), (539, 31083), (556, 31161), (575, 31221), (583, 31257), (584, 31260), (599, 31338), (607, 31374), (613, 31398), (620, 31419), (673, 31590), (675, 31596), (699, 31707), (704, 31734), (722, 31797), (724, 31803), (726, 31818), (737, 31860), (765, 31947), (784, 32004), (788, 32022), (795, 32043), (796, 32052), (797, 32058), (798, 32064), (801, 32076),

(824, 32181), (827, 32199), (833, 32232), (853, 32319), (860, 32349), (863, 32355), (878, 32415), (900, 32508), (901, 32523), (908, 32565), (923, 32679),

Gene: Konstantine_34 Start: 26883, Stop: 29726, Start Num: 36

Candidate Starts for Konstantine_34:

(Start: 36 @26883 has 10 MA's), (65, 27015), (67, 27027), (68, 27036), (83, 27105), (124, 27171), (131, 27192), (154, 27240), (173, 27282), (190, 27306), (208, 27339), (227, 27375), (234, 27387), (280, 27480), (303, 27537), (323, 27576), (382, 27771), (390, 27801), (407, 27843), (484, 27984), (495, 28002), (520, 28083), (538, 28122), (545, 28143), (585, 28281), (591, 28320), (609, 28383), (637, 28485), (705, 28710), (805, 29073), (812, 29100), (866, 29343), (877, 29376), (882, 29400), (906, 29520), (919, 29598), (935, 29685), (938, 29700), (939, 29706),

Gene: Kostya_26 Start: 22283, Stop: 24679, Start Num: 148

Candidate Starts for Kostya_26:

(Start: 148 @22283 has 132 MA's), (248, 22460), (259, 22481), (342, 22628), (382, 22769), (391, 22802), (404, 22835), (420, 22871), (479, 22964), (501, 23024), (508, 23042), (538, 23123), (598, 23351), (610, 23396), (677, 23591), (679, 23597), (682, 23606), (691, 23651), (695, 23666), (734, 23822), (737, 23840), (740, 23849), (780, 23978), (781, 23981), (832, 24191), (834, 24203), (871, 24317), (912, 24533), (926, 24617), (931, 24641), (933, 24650),

Gene: Krakatau_19 Start: 18095, Stop: 20632, Start Num: 100

Candidate Starts for Krakatau_19:

(Start: 100 @18095 has 238 MA's), (113, 18116), (Start: 125 @18137 has 1 MA's), (142, 18176), (188, 18245), (194, 18254), (196, 18257), (204, 18275), (222, 18308), (233, 18323), (257, 18371), (307, 18482), (308, 18485), (325, 18515), (329, 18527), (330, 18530), (362, 18632), (380, 18698), (392, 18743), (404, 18773), (407, 18779), (416, 18797), (428, 18821), (432, 18830), (456, 18863), (461, 18869), (479, 18899), (495, 18938), (498, 18950), (501, 18959), (507, 18974), (509, 18980), (548, 19088), (549, 19091), (550, 19100), (551, 19106), (554, 19121), (555, 19124), (561, 19145), (573, 19175), (576, 19187), (585, 19220), (610, 19331), (611, 19334), (621, 19361), (623, 19367), (636, 19421), (637, 19424), (677, 19526), (681, 19538), (682, 19541), (697, 19607), (702, 19631), (705, 19652), (707, 19661), (724, 19721), (725, 19724), (734, 19760), (737, 19778), (743, 19790), (745, 19799), (751, 19826), (776, 19895), (780, 19913), (784, 19922), (786, 19934), (797, 19970), (804, 20000), (809, 20021), (816, 20045), (823, 20081), (833, 20135), (849, 20195), (858, 20237), (880, 20315), (896, 20372), (900, 20396), (908, 20450), (912, 20498), (925, 20564), (926, 20567),

Gene: Krili_57 Start: 35606, Stop: 38116, Start Num: 114

Candidate Starts for Krili_57:

(Start: 114 @35606 has 34 MA's), (128, 35639), (163, 35708), (165, 35711), (179, 35735), (196, 35759), (209, 35783), (222, 35816), (310, 36023), (315, 36035), (316, 36038), (368, 36185), (373, 36215), (380, 36239), (392, 36269), (393, 36272), (404, 36299), (416, 36323), (431, 36353), (468, 36410), (481, 36434), (495, 36470), (498, 36482), (507, 36506), (508, 36509), (520, 36551), (554, 36647), (555, 36650), (627, 36905), (677, 37049), (691, 37109), (704, 37181), (705, 37184), (730, 37280), (780, 37454), (786, 37475), (812, 37568), (815, 37580), (833, 37670), (854, 37745), (879, 37790), (917, 37991), (924, 38045), (929, 38060),

Gene: KristaRAM_19 Start: 18070, Stop: 20607, Start Num: 100

Candidate Starts for KristaRAM_19:

(96, 18058), (Start: 100 @18070 has 238 MA's), (113, 18091), (Start: 125 @18112 has 1 MA's), (142, 18151), (188, 18220), (194, 18229), (196, 18232), (204, 18250), (222, 18283), (233, 18298), (257, 18346), (307, 18457), (308, 18460), (325, 18490), (329, 18502), (330, 18505), (357, 18583), (362, 18607), (380, 18673), (392, 18718), (404, 18748), (407, 18754), (416, 18772), (428, 18796), (432, 18805), (456, 18838), (461, 18844), (479, 18874), (495, 18913), (498, 18925), (501, 18934), (507, 18949), (508, 18952), (548, 19063), (549, 19066), (550, 19075), (551, 19081), (554, 19096), (555,

19099), (561, 19120), (573, 19150), (576, 19162), (585, 19195), (610, 19306), (611, 19309), (621, 19336), (623, 19342), (636, 19396), (637, 19399), (674, 19486), (677, 19501), (681, 19513), (682, 19516), (697, 19582), (702, 19606), (705, 19627), (707, 19636), (724, 19696), (725, 19699), (734, 19735), (737, 19753), (743, 19765), (745, 19774), (751, 19801), (776, 19870), (780, 19888), (784, 19897), (786, 19909), (797, 19945), (804, 19975), (809, 19996), (816, 20020), (823, 20056), (833, 20110), (849, 20170), (858, 20212), (880, 20290), (896, 20347), (900, 20371), (908, 20425), (912, 20473), (922, 20515), (925, 20539), (926, 20542),

Gene: Kumao_30 Start: 23701, Stop: 26268, Start Num: 102

Candidate Starts for Kumao_30:

(Start: 102 @23701 has 6 MA's), (132, 23767), (204, 23899), (219, 23923), (237, 23956), (271, 24031), (281, 24049), (302, 24100), (329, 24166), (389, 24370), (432, 24469), (456, 24502), (483, 24553), (528, 24676), (530, 24679), (585, 24856), (598, 24922), (618, 24988), (624, 25006), (628, 25021), (632, 25045), (675, 25150), (677, 25162), (708, 25300), (732, 25399), (734, 25405), (739, 25435), (750, 25477), (806, 25660), (807, 25663), (812, 25684), (813, 25690), (833, 25789), (843, 25828), (866, 25915), (895, 26014), (902, 26065), (905, 26083), (911, 26137), (925, 26212),

Gene: Lars_32 Start: 30078, Stop: 32798, Start Num: 75

Candidate Starts for Lars_32:

(Start: 75 @30078 has 36 MA's), (94, 30132), (117, 30171), (138, 30216), (149, 30240), (152, 30243), (166, 30276), (225, 30384), (237, 30405), (238, 30408), (261, 30462), (288, 30522), (299, 30546), (313, 30582), (331, 30630), (336, 30651), (351, 30690), (362, 30729), (369, 30744), (381, 30798), (385, 30810), (392, 30834), (402, 30858), (408, 30870), (415, 30885), (422, 30900), (438, 30942), (446, 30960), (458, 30999), (470, 31023), (539, 31194), (556, 31272), (575, 31332), (583, 31368), (584, 31371), (599, 31449), (607, 31485), (613, 31509), (620, 31530), (673, 31701), (675, 31707), (699, 31818), (704, 31845), (722, 31908), (724, 31914), (726, 31929), (737, 31971), (765, 32058), (776, 32085), (784, 32115), (788, 32133), (795, 32154), (796, 32163), (797, 32169), (798, 32175), (801, 32187), (824, 32292), (827, 32310), (833, 32343), (853, 32430), (860, 32460), (863, 32466), (878, 32526), (900, 32619), (901, 32634), (908, 32676), (923, 32790),

Gene: LastJedi_18 Start: 17396, Stop: 20260, Start Num: 53

Candidate Starts for LastJedi_18:

(50, 17384), (Start: 53 @17396 has 9 MA's), (62, 17417), (64, 17438), (69, 17477), (87, 17546), (89, 17555), (91, 17558), (116, 17609), (155, 17699), (175, 17744), (221, 17834), (224, 17843), (226, 17846), (236, 17867), (242, 17879), (255, 17912), (301, 18047), (319, 18095), (326, 18110), (333, 18131), (347, 18173), (352, 18188), (355, 18197), (362, 18224), (370, 18230), (381, 18275), (384, 18284), (392, 18299), (397, 18311), (400, 18320), (403, 18326), (408, 18335), (420, 18362), (430, 18380), (464, 18473), (475, 18494), (488, 18518), (513, 18584), (518, 18605), (526, 18623), (539, 18656), (544, 18680), (546, 18683), (556, 18734), (572, 18770), (575, 18794), (583, 18830), (586, 18839), (588, 18854), (592, 18881), (599, 18911), (607, 18947), (613, 18971), (640, 19070), (656, 19109), (673, 19163), (699, 19280), (704, 19307), (722, 19370), (724, 19376), (726, 19391), (737, 19433), (765, 19520), (776, 19547), (784, 19577), (788, 19595), (796, 19625), (798, 19637), (801, 19649), (824, 19754), (827, 19772), (833, 19805), (853, 19892), (860, 19922), (863, 19928), (878, 19988), (881, 19997), (884, 20006), (900, 20081), (903, 20102), (908, 20138), (923, 20252),

Gene: LaterM_27 Start: 20812, Stop: 23244, Start Num: 151

Candidate Starts for LaterM_27:

(Start: 151 @20812 has 97 MA's), (179, 20869), (214, 20911), (339, 21172), (346, 21193), (416, 21400), (431, 21433), (439, 21463), (473, 21535), (482, 21559), (498, 21604), (548, 21757), (561, 21814), (565, 21823), (574, 21859), (577, 21874), (619, 22054), (624, 22069), (641, 22138), (646, 22150), (670, 22213), (682, 22255), (691, 22294), (692, 22300), (695, 22309), (700, 22330), (715, 22390), (726, 22438), (727, 22441), (732, 22456), (743, 22498), (745, 22507), (758, 22564), (783, 22621), (785, 22630), (792, 22651), (802, 22696), (813, 22744), (833, 22840), (894, 23068), (912,

23215),

Gene: Latretium_19 Start: 18077, Stop: 20614, Start Num: 100

Candidate Starts for Latretium_19:

(96, 18065), (Start: 100 @18077 has 238 MA's), (113, 18098), (Start: 125 @18119 has 1 MA's), (142, 18158), (188, 18227), (194, 18236), (196, 18239), (204, 18257), (233, 18305), (307, 18464), (308, 18467), (325, 18497), (330, 18512), (357, 18590), (361, 18611), (362, 18614), (380, 18680), (404, 18755), (407, 18761), (416, 18779), (428, 18803), (431, 18809), (432, 18812), (456, 18845), (461, 18851), (479, 18881), (488, 18902), (498, 18932), (501, 18941), (540, 19049), (548, 19070), (549, 19073), (550, 19082), (551, 19088), (554, 19103), (555, 19106), (561, 19127), (576, 19169), (585, 19202), (621, 19343), (623, 19349), (636, 19403), (637, 19406), (652, 19433), (677, 19508), (681, 19520), (682, 19523), (697, 19589), (702, 19613), (705, 19634), (707, 19643), (724, 19703), (725, 19706), (734, 19742), (737, 19760), (745, 19781), (751, 19808), (773, 19865), (776, 19877), (780, 19895), (784, 19904), (786, 19916), (797, 19952), (804, 19982), (823, 20063), (833, 20117), (849, 20177), (858, 20219), (896, 20354), (900, 20378), (908, 20432), (922, 20522), (925, 20546), (926, 20549),

Gene: LeBron_20 Start: 19023, Stop: 21704, Start Num: 79

Candidate Starts for LeBron_20:

(Start: 79 @19023 has 19 MA's), (81, 19029), (164, 19206), (182, 19236), (215, 19299), (249, 19374), (273, 19428), (304, 19488), (306, 19494), (333, 19560), (354, 19623), (363, 19656), (365, 19659), (372, 19683), (378, 19707), (380, 19713), (381, 19719), (395, 19767), (404, 19788), (412, 19803), (421, 19824), (437, 19863), (442, 19875), (450, 19893), (488, 19968), (497, 19998), (506, 20022), (507, 20025), (525, 20070), (542, 20121), (549, 20139), (561, 20193), (579, 20265), (583, 20277), (586, 20286), (589, 20304), (592, 20328), (599, 20358), (607, 20394), (617, 20427), (618, 20433), (635, 20499), (662, 20565), (673, 20604), (691, 20685), (699, 20721), (701, 20727), (726, 20832), (729, 20841), (734, 20856), (737, 20874), (750, 20916), (782, 21012), (784, 21018), (797, 21072), (798, 21078), (801, 21090), (826, 21201), (830, 21231), (831, 21237), (853, 21333), (855, 21339), (860, 21363), (863, 21369), (864, 21375), (877, 21420), (878, 21429), (881, 21438), (893, 21477), (898, 21513), (900, 21522), (901, 21537), (913, 21633), (921, 21684), (922, 21690),

Gene: LeMond_26 Start: 20112, Stop: 22571, Start Num: 151

Candidate Starts for LeMond_26:

(Start: 151 @20112 has 97 MA's), (171, 20160), (247, 20283), (274, 20340), (281, 20352), (330, 20445), (337, 20469), (356, 20520), (407, 20682), (448, 20793), (460, 20832), (473, 20856), (517, 20979), (540, 21051), (562, 21138), (582, 21219), (605, 21321), (619, 21375), (634, 21435), (666, 21513), (667, 21525), (670, 21534), (682, 21576), (691, 21621), (695, 21636), (718, 21723), (723, 21747), (739, 21819), (755, 21876), (792, 21987), (797, 22011), (802, 22032), (814, 22083), (842, 22212), (874, 22317), (912, 22542),

Gene: Lemuria_23 Start: 20578, Stop: 23055, Start Num: 97

Candidate Starts for Lemuria_23:

(Start: 97 @20578 has 9 MA's), (147, 20686), (166, 20722), (175, 20740), (341, 21052), (431, 21295), (459, 21340), (502, 21442), (507, 21457), (531, 21523), (537, 21538), (552, 21589), (563, 21625), (582, 21691), (588, 21718), (636, 21916), (664, 21991), (719, 22216), (733, 22276), (744, 22321), (792, 22459), (814, 22555), (843, 22693), (909, 22993),

Gene: Leozinho_19 Start: 17243, Stop: 19780, Start Num: 100

Candidate Starts for Leozinho_19:

(96, 17231), (Start: 100 @17243 has 238 MA's), (113, 17264), (Start: 125 @17285 has 1 MA's), (142, 17324), (188, 17393), (194, 17402), (196, 17405), (204, 17423), (222, 17456), (233, 17471), (257, 17519), (307, 17630), (308, 17633), (325, 17663), (329, 17675), (330, 17678), (357, 17756), (362, 17780), (380, 17846), (392, 17891), (404, 17921), (407, 17927), (416, 17945), (428, 17969), (432,

17978), (456, 18011), (461, 18017), (479, 18047), (495, 18086), (498, 18098), (501, 18107), (507, 18122), (508, 18125), (548, 18236), (549, 18239), (550, 18248), (551, 18254), (554, 18269), (555, 18272), (561, 18293), (573, 18323), (576, 18335), (585, 18368), (610, 18479), (611, 18482), (621, 18509), (623, 18515), (636, 18569), (637, 18572), (677, 18674), (681, 18686), (682, 18689), (697, 18755), (702, 18779), (705, 18800), (707, 18809), (724, 18869), (725, 18872), (734, 18908), (737, 18926), (743, 18938), (745, 18947), (751, 18974), (776, 19043), (780, 19061), (784, 19070), (786, 19082), (797, 19118), (804, 19148), (809, 19169), (816, 19193), (823, 19229), (833, 19283), (849, 19343), (858, 19385), (880, 19463), (896, 19520), (900, 19544), (908, 19598), (912, 19646), (922, 19688), (925, 19712), (926, 19715),

Gene: Leperchaun_18 Start: 17387, Stop: 19939, Start Num: 100

Candidate Starts for Leperchaun_18:

(Start: 100 @17387 has 238 MA's), (113, 17408), (123, 17429), (142, 17468), (188, 17537), (194, 17546), (196, 17549), (204, 17567), (222, 17600), (233, 17615), (257, 17663), (307, 17774), (308, 17777), (326, 17810), (329, 17819), (330, 17822), (357, 17900), (373, 17966), (382, 17999), (399, 18053), (404, 18065), (428, 18113), (432, 18122), (436, 18131), (462, 18164), (488, 18206), (493, 18221), (504, 18251), (506, 18257), (507, 18260), (508, 18263), (517, 18290), (523, 18311), (538, 18344), (550, 18386), (551, 18392), (552, 18395), (554, 18407), (555, 18410), (564, 18437), (573, 18461), (576, 18473), (585, 18506), (589, 18527), (606, 18599), (611, 18620), (643, 18731), (663, 18755), (664, 18758), (669, 18782), (677, 18812), (685, 18836), (691, 18872), (692, 18878), (695, 18887), (713, 18977), (719, 19001), (720, 19016), (732, 19058), (734, 19064), (746, 19109), (777, 19205), (780, 19220), (784, 19229), (791, 19253), (807, 19316), (892, 19658), (900, 19703), (912, 19805),

Gene: Lephleur_32 Start: 29971, Stop: 32691, Start Num: 75

Candidate Starts for Lephleur_32:

(Start: 75 @29971 has 36 MA's), (94, 30025), (117, 30064), (138, 30109), (149, 30133), (152, 30136), (166, 30169), (225, 30277), (237, 30298), (238, 30301), (261, 30355), (288, 30415), (299, 30439), (313, 30475), (331, 30523), (336, 30544), (351, 30583), (362, 30622), (369, 30637), (381, 30691), (385, 30703), (392, 30727), (402, 30751), (408, 30763), (415, 30778), (422, 30793), (438, 30835), (446, 30853), (458, 30892), (470, 30916), (539, 31087), (556, 31165), (575, 31225), (583, 31261), (584, 31264), (599, 31342), (607, 31378), (613, 31402), (620, 31423), (673, 31594), (675, 31600), (699, 31711), (704, 31738), (722, 31801), (724, 31807), (726, 31822), (737, 31864), (765, 31951), (784, 32008), (788, 32026), (795, 32047), (796, 32056), (797, 32062), (798, 32068), (801, 32080), (824, 32185), (827, 32203), (833, 32236), (853, 32323), (860, 32353), (863, 32359), (878, 32419), (900, 32512), (901, 32527), (908, 32569), (923, 32683),

Gene: LilMcDreamy_27 Start: 29183, Stop: 31675, Start Num: 105

Candidate Starts for LilMcDreamy_27:

(Start: 105 @29183 has 6 MA's), (138, 29261), (178, 29336), (434, 29906), (444, 29930), (495, 30029), (502, 30053), (505, 30062), (517, 30095), (522, 30113), (541, 30161), (575, 30275), (582, 30302), (590, 30341), (611, 30437), (619, 30461), (636, 30527), (670, 30623), (681, 30662), (714, 30806), (726, 30857), (735, 30896), (738, 30905), (750, 30950), (787, 31061), (814, 31172), (833, 31271), (876, 31430), (898, 31532), (909, 31613),

Gene: LilMoolah_18 Start: 17531, Stop: 20056, Start Num: 100

Candidate Starts for LilMoolah_18:

(Start: 100 @17531 has 238 MA's), (113, 17552), (123, 17573), (142, 17612), (188, 17681), (194, 17690), (196, 17693), (204, 17711), (233, 17759), (257, 17807), (307, 17918), (308, 17921), (326, 17954), (330, 17966), (357, 18044), (373, 18110), (382, 18143), (399, 18197), (404, 18209), (431, 18263), (432, 18266), (436, 18275), (462, 18308), (486, 18347), (488, 18350), (493, 18365), (495, 18368), (504, 18395), (506, 18401), (507, 18404), (508, 18407), (517, 18434), (522, 18452), (523, 18455), (550, 18530), (554, 18551), (555, 18554), (564, 18581), (573, 18605), (585, 18650), (586,

18653), (594, 18704), (611, 18767), (614, 18776), (622, 18800), (664, 18905), (665, 18908), (677, 18959), (679, 18965), (681, 18971), (682, 18974), (691, 19019), (695, 19034), (701, 19061), (705, 19085), (719, 19136), (724, 19154), (725, 19157), (726, 19169), (743, 19223), (780, 19346), (798, 19409), (814, 19472), (828, 19547), (885, 19748), (921, 19958), (928, 19997), (929, 20000),

Gene: LilSmirk_32 Start: 29965, Stop: 32685, Start Num: 75

Candidate Starts for LilSmirk_32:

(Start: 75 @29965 has 36 MA's), (94, 30019), (117, 30058), (138, 30103), (149, 30127), (152, 30130), (166, 30163), (225, 30271), (237, 30292), (238, 30295), (261, 30349), (288, 30409), (299, 30433), (313, 30469), (331, 30517), (336, 30538), (351, 30577), (362, 30616), (369, 30631), (381, 30685), (385, 30697), (392, 30721), (402, 30745), (408, 30757), (415, 30772), (422, 30787), (438, 30829), (446, 30847), (458, 30886), (470, 30910), (539, 31081), (556, 31159), (575, 31219), (583, 31255), (584, 31258), (599, 31336), (607, 31372), (613, 31396), (620, 31417), (673, 31588), (699, 31705), (704, 31732), (722, 31795), (724, 31801), (726, 31816), (737, 31858), (765, 31945), (784, 32002), (788, 32020), (795, 32041), (796, 32050), (797, 32056), (798, 32062), (801, 32074), (824, 32179), (827, 32197), (833, 32230), (853, 32317), (860, 32347), (863, 32353), (878, 32413), (900, 32506), (901, 32521), (908, 32563), (923, 32677),

Gene: Lilac_28 Start: 21781, Stop: 24177, Start Num: 148

Candidate Starts for Lilac_28:

(Start: 148 @21781 has 132 MA's), (248, 21958), (259, 21979), (342, 22126), (391, 22300), (404, 22333), (420, 22369), (479, 22462), (501, 22522), (508, 22540), (552, 22672), (566, 22717), (598, 22849), (610, 22894), (630, 22954), (672, 23068), (677, 23089), (688, 23128), (691, 23149), (695, 23164), (732, 23314), (734, 23320), (737, 23338), (752, 23392), (780, 23476), (807, 23569), (871, 23815), (912, 24031), (926, 24115), (933, 24148),

Gene: Lilizi_28 Start: 21989, Stop: 24385, Start Num: 148

Candidate Starts for Lilizi_28:

(Start: 148 @21989 has 132 MA's), (248, 22166), (259, 22187), (342, 22334), (391, 22508), (404, 22541), (420, 22577), (479, 22670), (501, 22730), (508, 22748), (552, 22880), (566, 22925), (598, 23057), (610, 23102), (630, 23162), (672, 23276), (677, 23297), (688, 23336), (691, 23357), (695, 23372), (732, 23522), (734, 23528), (737, 23546), (752, 23600), (780, 23684), (807, 23777), (871, 24023), (912, 24239), (926, 24323), (933, 24356),

Gene: Lilpickle_25 Start: 21491, Stop: 23887, Start Num: 148

Candidate Starts for Lilpickle_25:

(Start: 148 @21491 has 132 MA's), (248, 21668), (259, 21689), (342, 21836), (391, 22010), (404, 22043), (420, 22079), (479, 22172), (501, 22232), (508, 22250), (552, 22382), (566, 22427), (598, 22559), (610, 22604), (630, 22664), (672, 22778), (677, 22799), (688, 22838), (691, 22859), (695, 22874), (732, 23024), (734, 23030), (737, 23048), (752, 23102), (780, 23186), (807, 23279), (871, 23525), (912, 23741), (926, 23825), (933, 23858),

Gene: LindNT_27 Start: 20846, Stop: 23278, Start Num: 151

Candidate Starts for LindNT_27:

(Start: 151 @20846 has 97 MA's), (214, 20945), (339, 21206), (416, 21434), (431, 21467), (439, 21497), (473, 21569), (482, 21593), (498, 21638), (548, 21791), (556, 21836), (561, 21848), (565, 21857), (574, 21893), (577, 21908), (619, 22088), (624, 22103), (641, 22172), (646, 22184), (670, 22247), (682, 22289), (691, 22328), (692, 22334), (695, 22343), (700, 22364), (715, 22424), (745, 22541), (755, 22583), (783, 22655), (785, 22664), (792, 22685), (808, 22757), (813, 22778), (833, 22874), (894, 23102), (912, 23249),

Gene: LittleE_39 Start: 30972, Stop: 33527, Start Num: 100

Candidate Starts for LittleE_39:

(Start: 100 @30972 has 238 MA's), (204, 31167), (222, 31203), (233, 31218), (257, 31266), (307, 31377), (308, 31380), (325, 31410), (330, 31425), (357, 31503), (362, 31527), (380, 31593), (392, 31638), (404, 31668), (407, 31674), (416, 31692), (428, 31716), (432, 31725), (456, 31758), (461, 31764), (479, 31794), (495, 31833), (498, 31845), (501, 31854), (507, 31869), (508, 31872), (548, 31983), (549, 31986), (550, 31995), (551, 32001), (554, 32016), (555, 32019), (573, 32070), (576, 32082), (585, 32115), (598, 32181), (610, 32226), (611, 32229), (621, 32256), (623, 32262), (636, 32316), (637, 32319), (674, 32406), (677, 32421), (681, 32433), (682, 32436), (697, 32502), (705, 32547), (707, 32556), (724, 32616), (725, 32619), (734, 32655), (737, 32673), (743, 32685), (745, 32694), (751, 32721), (776, 32790), (780, 32808), (784, 32817), (786, 32829), (797, 32865), (804, 32895), (809, 32916), (816, 32940), (823, 32976), (833, 33030), (849, 33090), (858, 33132), (896, 33267), (900, 33291), (908, 33345), (912, 33393), (922, 33435), (925, 33459), (926, 33462),

Gene: LittleMinkey_35 Start: 28887, Stop: 31370, Start Num: 105

Candidate Starts for LittleMinkey_35:

(Start: 105 @28887 has 6 MA's), (110, 28896), (157, 29001), (158, 29004), (172, 29034), (191, 29058), (193, 29061), (376, 29478), (386, 29514), (417, 29580), (434, 29610), (463, 29676), (483, 29718), (517, 29811), (523, 29832), (545, 29886), (583, 30024), (588, 30045), (606, 30129), (634, 30234), (642, 30261), (666, 30315), (705, 30489), (719, 30531), (845, 31017), (909, 31308), (911, 31344), (914, 31353),

Gene: LittleShirley_19 Start: 17218, Stop: 19755, Start Num: 100

Candidate Starts for LittleShirley_19:

(Start: 100 @17218 has 238 MA's), (113, 17239), (Start: 125 @17260 has 1 MA's), (142, 17299), (188, 17368), (194, 17377), (196, 17380), (204, 17398), (233, 17446), (303, 17599), (308, 17608), (330, 17653), (361, 17752), (362, 17755), (380, 17821), (404, 17896), (407, 17902), (416, 17920), (428, 17944), (431, 17950), (432, 17953), (456, 17986), (461, 17992), (479, 18022), (488, 18043), (498, 18073), (501, 18082), (507, 18097), (508, 18100), (548, 18211), (549, 18214), (550, 18223), (551, 18229), (554, 18244), (555, 18247), (561, 18268), (573, 18298), (576, 18310), (585, 18343), (610, 18454), (611, 18457), (621, 18484), (623, 18490), (636, 18544), (637, 18547), (677, 18649), (681, 18661), (682, 18664), (697, 18730), (702, 18754), (705, 18775), (707, 18784), (724, 18844), (725, 18847), (734, 18883), (737, 18901), (743, 18913), (745, 18922), (751, 18949), (773, 19006), (776, 19018), (780, 19036), (784, 19045), (786, 19057), (797, 19093), (804, 19123), (807, 19132), (809, 19144), (823, 19204), (833, 19258), (849, 19318), (858, 19360), (896, 19495), (900, 19519), (908, 19573), (912, 19621), (922, 19663), (925, 19687), (926, 19690),

Gene: Livelaughbron_26 Start: 22400, Stop: 24796, Start Num: 148

Candidate Starts for Livelaughbron_26:

(Start: 148 @22400 has 132 MA's), (248, 22577), (259, 22598), (342, 22745), (382, 22886), (391, 22919), (404, 22952), (420, 22988), (479, 23081), (501, 23141), (508, 23159), (552, 23291), (566, 23336), (598, 23468), (610, 23513), (630, 23573), (672, 23687), (677, 23708), (688, 23747), (691, 23768), (695, 23783), (732, 23933), (734, 23939), (737, 23957), (752, 24011), (780, 24095), (807, 24188), (871, 24434), (912, 24650), (926, 24734), (933, 24767),

Gene: LizLemon_32 Start: 30087, Stop: 32807, Start Num: 75

Candidate Starts for LizLemon_32:

(Start: 75 @30087 has 36 MA's), (94, 30141), (117, 30180), (138, 30225), (149, 30249), (152, 30252), (166, 30285), (225, 30393), (237, 30414), (238, 30417), (261, 30471), (288, 30531), (299, 30555), (313, 30591), (331, 30639), (336, 30660), (351, 30699), (362, 30738), (369, 30753), (381, 30807), (385, 30819), (392, 30843), (402, 30867), (408, 30879), (415, 30894), (422, 30909), (438, 30951), (446, 30969), (458, 31008), (470, 31032), (539, 31203), (556, 31281), (575, 31341), (583, 31377), (584, 31380), (599, 31458), (607, 31494), (613, 31518), (640, 31617), (656, 31656), (673, 31710), (699, 31827), (704, 31854), (722, 31917), (724, 31923), (726, 31938), (737, 31980), (765, 32067), (784, 32124), (788, 32142), (795, 32163), (796, 32172), (797, 32178), (798, 32184), (801, 32196),

(824, 32301), (827, 32319), (833, 32352), (853, 32439), (860, 32469), (863, 32475), (878, 32535), (900, 32628), (901, 32643), (908, 32685), (923, 32799),

Gene: Lizziana_18 Start: 17406, Stop: 19931, Start Num: 100

Candidate Starts for Lizziana_18:

(Start: 100 @17406 has 238 MA's), (142, 17487), (188, 17556), (194, 17565), (196, 17568), (204, 17586), (233, 17634), (256, 17679), (307, 17793), (308, 17796), (314, 17808), (326, 17829), (329, 17838), (330, 17841), (346, 17889), (357, 17919), (373, 17985), (382, 18018), (392, 18054), (402, 18078), (431, 18138), (432, 18141), (442, 18159), (486, 18222), (488, 18225), (495, 18243), (501, 18264), (508, 18282), (517, 18309), (523, 18330), (538, 18363), (551, 18411), (552, 18414), (554, 18426), (555, 18429), (564, 18456), (573, 18480), (585, 18525), (614, 18651), (622, 18675), (665, 18783), (677, 18834), (681, 18846), (682, 18849), (691, 18894), (695, 18909), (701, 18936), (705, 18960), (719, 19011), (724, 19029), (725, 19032), (726, 19044), (743, 19098), (752, 19140), (798, 19284), (812, 19338), (813, 19344), (814, 19347), (820, 19383), (822, 19386), (825, 19395), (828, 19422), (885, 19623), (912, 19794), (921, 19833), (928, 19872), (929, 19875),

Gene: Llama_18 Start: 17634, Stop: 20171, Start Num: 100

Candidate Starts for Llama_18:

(Start: 100 @17634 has 238 MA's), (113, 17655), (Start: 125 @17676 has 1 MA's), (142, 17715), (188, 17784), (194, 17793), (196, 17796), (204, 17814), (233, 17862), (307, 18021), (308, 18024), (329, 18066), (330, 18069), (357, 18147), (361, 18168), (362, 18171), (380, 18237), (382, 18246), (392, 18282), (404, 18312), (407, 18318), (428, 18360), (431, 18366), (432, 18369), (456, 18402), (461, 18408), (479, 18438), (488, 18459), (498, 18489), (501, 18498), (540, 18606), (545, 18618), (548, 18627), (549, 18630), (550, 18639), (551, 18645), (554, 18660), (555, 18663), (561, 18684), (576, 18726), (585, 18759), (621, 18900), (623, 18906), (636, 18960), (637, 18963), (652, 18990), (677, 19065), (681, 19077), (682, 19080), (697, 19146), (701, 19167), (702, 19170), (705, 19191), (719, 19242), (724, 19260), (725, 19263), (732, 19293), (737, 19317), (743, 19329), (776, 19434), (780, 19452), (784, 19461), (786, 19473), (797, 19509), (804, 19539), (809, 19560), (816, 19584), (823, 19620), (849, 19734), (858, 19776), (880, 19854), (896, 19911), (900, 19935), (908, 19989), (912, 20037), (922, 20079), (925, 20103), (926, 20106),

Gene: Llij_18 Start: 17383, Stop: 19920, Start Num: 100

Candidate Starts for Llij_18:

(Start: 100 @17383 has 238 MA's), (Start: 151 @17473 has 97 MA's), (188, 17533), (194, 17542), (196, 17545), (204, 17563), (233, 17611), (257, 17659), (303, 17764), (307, 17770), (308, 17773), (329, 17815), (330, 17818), (362, 17920), (380, 17986), (392, 18031), (404, 18061), (407, 18067), (416, 18085), (428, 18109), (432, 18118), (456, 18151), (461, 18157), (488, 18208), (495, 18226), (498, 18238), (501, 18247), (507, 18262), (509, 18268), (548, 18376), (550, 18388), (551, 18394), (554, 18409), (555, 18412), (561, 18433), (573, 18463), (576, 18475), (585, 18508), (598, 18574), (610, 18619), (611, 18622), (621, 18649), (623, 18655), (636, 18709), (637, 18712), (652, 18739), (677, 18814), (681, 18826), (682, 18829), (697, 18895), (701, 18916), (702, 18919), (707, 18949), (719, 18991), (724, 19009), (725, 19012), (732, 19042), (737, 19066), (743, 19078), (745, 19087), (776, 19183), (780, 19201), (784, 19210), (786, 19222), (804, 19288), (807, 19297), (809, 19309), (823, 19369), (858, 19525), (896, 19660), (900, 19684), (908, 19738), (918, 19807), (925, 19852), (926, 19855),

Gene: Llorens_27 Start: 20912, Stop: 23344, Start Num: 151

Candidate Starts for Llorens_27:

(Start: 151 @20912 has 97 MA's), (214, 21011), (339, 21272), (346, 21293), (416, 21500), (431, 21533), (439, 21563), (473, 21635), (482, 21659), (548, 21857), (556, 21902), (561, 21914), (565, 21923), (577, 21974), (619, 22154), (624, 22169), (641, 22238), (646, 22250), (670, 22313), (682, 22355), (691, 22394), (692, 22400), (695, 22409), (700, 22430), (715, 22490), (745, 22607), (755, 22649), (783, 22721), (785, 22730), (792, 22751), (808, 22823), (813, 22844), (833, 22940), (872,

23087), (894, 23168), (912, 23315),

Gene: Lorde_19 Start: 17219, Stop: 19756, Start Num: 100

Candidate Starts for Lorde_19:

(96, 17207), (Start: 100 @17219 has 238 MA's), (113, 17240), (Start: 125 @17261 has 1 MA's), (142, 17300), (188, 17369), (194, 17378), (196, 17381), (204, 17399), (222, 17432), (233, 17447), (257, 17495), (303, 17600), (308, 17609), (329, 17651), (330, 17654), (357, 17732), (362, 17756), (380, 17822), (392, 17867), (404, 17897), (407, 17903), (416, 17921), (428, 17945), (432, 17954), (456, 17987), (461, 17993), (479, 18023), (495, 18062), (498, 18074), (501, 18083), (507, 18098), (508, 18101), (548, 18212), (550, 18224), (551, 18230), (554, 18245), (555, 18248), (561, 18269), (573, 18299), (576, 18311), (585, 18344), (598, 18410), (610, 18455), (611, 18458), (621, 18485), (623, 18491), (636, 18545), (637, 18548), (652, 18575), (677, 18650), (681, 18662), (682, 18665), (697, 18731), (702, 18755), (707, 18785), (719, 18827), (724, 18845), (725, 18848), (734, 18884), (737, 18902), (745, 18923), (751, 18950), (776, 19019), (780, 19037), (784, 19046), (786, 19058), (797, 19094), (804, 19124), (807, 19133), (809, 19145), (823, 19205), (833, 19259), (849, 19319), (858, 19361), (880, 19439), (896, 19496), (900, 19520), (908, 19574), (912, 19622), (922, 19664), (925, 19688), (926, 19691),

Gene: Lucia_19 Start: 17421, Stop: 19973, Start Num: 100

Candidate Starts for Lucia_19:

(Start: 100 @17421 has 238 MA's), (113, 17442), (123, 17463), (142, 17502), (188, 17571), (194, 17580), (196, 17583), (204, 17601), (222, 17634), (233, 17649), (257, 17697), (307, 17808), (308, 17811), (326, 17844), (329, 17853), (330, 17856), (357, 17934), (373, 18000), (382, 18033), (399, 18087), (404, 18099), (428, 18147), (432, 18156), (436, 18165), (462, 18198), (488, 18240), (493, 18255), (504, 18285), (506, 18291), (507, 18294), (508, 18297), (517, 18324), (523, 18345), (538, 18378), (550, 18420), (551, 18426), (552, 18429), (554, 18441), (555, 18444), (564, 18471), (573, 18495), (576, 18507), (585, 18540), (589, 18561), (606, 18633), (611, 18654), (643, 18765), (663, 18789), (664, 18792), (669, 18816), (677, 18846), (685, 18870), (691, 18906), (692, 18912), (695, 18921), (713, 19011), (719, 19035), (720, 19050), (732, 19092), (734, 19098), (746, 19143), (777, 19239), (780, 19254), (784, 19263), (791, 19287), (807, 19350), (833, 19476), (892, 19692), (900, 19737), (912, 19839), (929, 19917),

Gene: Lucky2013_36 Start: 27869, Stop: 30376, Start Num: 100

Candidate Starts for Lucky2013_36:

(Start: 100 @27869 has 238 MA's), (204, 28064), (222, 28100), (233, 28115), (285, 28202), (290, 28217), (330, 28292), (335, 28304), (346, 28331), (376, 28436), (389, 28475), (392, 28484), (404, 28508), (407, 28514), (416, 28532), (424, 28550), (432, 28565), (436, 28574), (442, 28583), (456, 28598), (473, 28625), (479, 28634), (495, 28673), (498, 28685), (501, 28694), (531, 28778), (555, 28859), (566, 28889), (567, 28892), (576, 28922), (583, 28949), (586, 28958), (594, 29009), (596, 29018), (598, 29021), (609, 29057), (614, 29078), (626, 29114), (679, 29267), (691, 29321), (702, 29366), (704, 29384), (705, 29387), (716, 29426), (750, 29573), (752, 29582), (777, 29651), (780, 29666), (823, 29831), (840, 29918), (852, 29966), (871, 30017), (890, 30095), (927, 30317), (929, 30320), (933, 30347),

Gene: LunaBlu_19 Start: 17477, Stop: 20014, Start Num: 100

Candidate Starts for LunaBlu_19:

(Start: 100 @17477 has 238 MA's), (Start: 151 @17567 has 97 MA's), (188, 17627), (194, 17636), (196, 17639), (204, 17657), (222, 17690), (233, 17705), (257, 17753), (307, 17864), (308, 17867), (325, 17897), (330, 17912), (357, 17990), (380, 18080), (392, 18125), (404, 18155), (407, 18161), (416, 18179), (428, 18203), (432, 18212), (456, 18245), (461, 18251), (479, 18281), (495, 18320), (498, 18332), (501, 18341), (507, 18356), (508, 18359), (548, 18470), (550, 18482), (551, 18488), (554, 18503), (555, 18506), (561, 18527), (573, 18557), (576, 18569), (585, 18602), (598, 18668), (610, 18713), (611, 18716), (621, 18743), (623, 18749), (636, 18803), (637, 18806), (677, 18908),

(681, 18920), (682, 18923), (697, 18989), (702, 19013), (707, 19043), (724, 19103), (725, 19106), (734, 19142), (737, 19160), (743, 19172), (745, 19181), (751, 19208), (776, 19277), (780, 19295), (784, 19304), (786, 19316), (797, 19352), (804, 19382), (809, 19403), (816, 19427), (823, 19463), (833, 19517), (849, 19577), (858, 19619), (880, 19697), (896, 19754), (900, 19778), (908, 19832), (912, 19880), (922, 19922), (925, 19946), (926, 19949),

Gene: LunaStella_20 Start: 17940, Stop: 20417, Start Num: 106

Candidate Starts for LunaStella_20:

(Start: 106 @17940 has 3 MA's), (113, 17952), (150, 18015), (167, 18042), (200, 18096), (204, 18105), (209, 18111), (222, 18138), (241, 18171), (285, 18243), (290, 18258), (308, 18294), (311, 18303), (327, 18321), (335, 18345), (345, 18369), (389, 18516), (392, 18525), (404, 18549), (416, 18573), (428, 18597), (431, 18603), (442, 18624), (461, 18645), (479, 18675), (490, 18705), (498, 18726), (531, 18819), (538, 18834), (540, 18843), (543, 18852), (548, 18864), (549, 18867), (573, 18951), (574, 18954), (576, 18963), (583, 18990), (586, 18999), (592, 19038), (596, 19059), (598, 19062), (609, 19098), (614, 19119), (636, 19197), (637, 19200), (666, 19254), (681, 19314), (700, 19401), (702, 19407), (704, 19425), (705, 19428), (716, 19464), (729, 19518), (732, 19527), (750, 19605), (755, 19623), (769, 19659), (770, 19662), (776, 19680), (777, 19683), (780, 19698), (797, 19755), (799, 19767), (816, 19830), (823, 19863), (840, 19950), (852, 19998), (857, 20022), (865, 20049), (871, 20058), (879, 20097), (890, 20136), (896, 20160), (899, 20181), (912, 20277), (918, 20298), (929, 20361), (933, 20388), (936, 20397),

Gene: Lunahalos_27 Start: 20912, Stop: 23344, Start Num: 151

Candidate Starts for Lunahalos_27:

(Start: 151 @20912 has 97 MA's), (214, 21011), (339, 21272), (346, 21293), (416, 21500), (431, 21533), (439, 21563), (473, 21635), (482, 21659), (548, 21857), (556, 21902), (561, 21914), (565, 21923), (577, 21974), (619, 22154), (624, 22169), (641, 22238), (646, 22250), (670, 22313), (682, 22355), (691, 22394), (692, 22400), (695, 22409), (700, 22430), (715, 22490), (745, 22607), (755, 22649), (783, 22721), (785, 22730), (792, 22751), (808, 22823), (813, 22844), (833, 22940), (872, 23087), (894, 23168), (912, 23315),

Gene: MAckerman_20 Start: 18997, Stop: 21678, Start Num: 79

Candidate Starts for MAckerman_20:

(Start: 79 @18997 has 19 MA's), (81, 19003), (164, 19180), (182, 19210), (215, 19273), (249, 19348), (273, 19402), (304, 19462), (306, 19468), (333, 19534), (354, 19597), (363, 19630), (365, 19633), (372, 19657), (380, 19687), (381, 19693), (395, 19741), (404, 19762), (412, 19777), (421, 19798), (437, 19837), (442, 19849), (450, 19867), (477, 19924), (488, 19942), (497, 19972), (506, 19996), (507, 19999), (525, 20044), (542, 20095), (549, 20113), (561, 20167), (579, 20239), (583, 20251), (586, 20260), (592, 20302), (599, 20332), (607, 20368), (611, 20386), (617, 20401), (618, 20407), (628, 20440), (670, 20569), (673, 20578), (691, 20659), (699, 20695), (701, 20701), (726, 20806), (729, 20815), (734, 20830), (737, 20848), (750, 20890), (782, 20986), (784, 20992), (797, 21046), (798, 21052), (801, 21064), (826, 21175), (830, 21205), (831, 21211), (853, 21307), (855, 21313), (860, 21337), (863, 21343), (864, 21349), (877, 21394), (878, 21403), (881, 21412), (893, 21451), (898, 21487), (900, 21496), (901, 21511), (913, 21607), (921, 21658), (922, 21664),

Gene: MISSy_25 Start: 21796, Stop: 24192, Start Num: 148

Candidate Starts for MISSy_25:

(Start: 148 @21796 has 132 MA's), (248, 21973), (259, 21994), (342, 22141), (382, 22282), (391, 22315), (404, 22348), (420, 22384), (479, 22477), (501, 22537), (508, 22555), (552, 22687), (566, 22732), (598, 22864), (610, 22909), (630, 22969), (672, 23083), (677, 23104), (688, 23143), (691, 23164), (695, 23179), (732, 23329), (734, 23335), (737, 23353), (752, 23407), (780, 23491), (807, 23584), (871, 23830), (912, 24046), (926, 24130), (933, 24163),

Gene: MOOREtheMARYer_23 Start: 20802, Stop: 23264, Start Num: 97

Candidate Starts for MOOREtheMARYer_23:

(Start: 97 @20802 has 9 MA's), (220, 21030), (243, 21072), (257, 21105), (309, 21210), (376, 21393), (398, 21453), (465, 21576), (483, 21615), (501, 21663), (502, 21666), (537, 21762), (545, 21783), (557, 21837), (582, 21918), (585, 21927), (590, 21954), (619, 22074), (627, 22101), (642, 22161), (666, 22209), (668, 22224), (686, 22290), (695, 22332), (719, 22425), (816, 22770), (823, 22809), (841, 22896), (856, 22968), (895, 23097), (909, 23202), (914, 23247),

Gene: MPhalcon_25 Start: 21790, Stop: 24186, Start Num: 148

Candidate Starts for MPhalcon_25:

(Start: 148 @21790 has 132 MA's), (248, 21967), (259, 21988), (342, 22135), (382, 22276), (391, 22309), (404, 22342), (420, 22378), (479, 22471), (501, 22531), (508, 22549), (552, 22681), (566, 22726), (598, 22858), (610, 22903), (630, 22963), (672, 23077), (677, 23098), (688, 23137), (691, 23158), (695, 23173), (732, 23323), (734, 23329), (737, 23347), (752, 23401), (780, 23485), (807, 23578), (871, 23824), (912, 24040), (926, 24124), (933, 24157),

Gene: MacKat_27 Start: 20889, Stop: 23321, Start Num: 151

Candidate Starts for MacKat_27:

(Start: 151 @20889 has 97 MA's), (214, 20988), (339, 21249), (346, 21270), (416, 21477), (431, 21510), (439, 21540), (473, 21612), (482, 21636), (498, 21681), (548, 21834), (556, 21879), (561, 21891), (565, 21900), (577, 21951), (619, 22131), (624, 22146), (641, 22215), (646, 22227), (670, 22290), (682, 22332), (691, 22371), (692, 22377), (695, 22386), (700, 22407), (715, 22467), (745, 22584), (755, 22626), (783, 22698), (785, 22707), (792, 22728), (808, 22800), (813, 22821), (833, 22917), (894, 23145), (912, 23292),

Gene: MadKillah_59 Start: 35875, Stop: 38385, Start Num: 114

Candidate Starts for MadKillah_59:

(Start: 114 @35875 has 34 MA's), (128, 35908), (163, 35977), (165, 35980), (179, 36004), (196, 36028), (209, 36052), (222, 36085), (310, 36292), (315, 36304), (316, 36307), (368, 36454), (373, 36484), (380, 36508), (392, 36538), (393, 36541), (404, 36568), (416, 36592), (431, 36622), (468, 36679), (481, 36703), (495, 36739), (498, 36751), (507, 36775), (508, 36778), (520, 36820), (554, 36916), (555, 36919), (627, 37174), (677, 37318), (691, 37378), (704, 37450), (705, 37453), (730, 37549), (780, 37723), (786, 37744), (812, 37837), (815, 37849), (833, 37939), (854, 38014), (879, 38059), (917, 38260), (924, 38314), (929, 38329),

Gene: MadMen_19 Start: 17637, Stop: 20129, Start Num: 100

Candidate Starts for MadMen_19:

(Start: 100 @17637 has 238 MA's), (113, 17658), (Start: 125 @17679 has 1 MA's), (143, 17718), (188, 17787), (194, 17796), (196, 17799), (204, 17817), (222, 17850), (241, 17883), (257, 17916), (285, 17955), (290, 17970), (308, 18006), (311, 18015), (327, 18033), (335, 18057), (345, 18081), (389, 18228), (392, 18237), (404, 18261), (416, 18285), (428, 18309), (431, 18315), (442, 18336), (461, 18357), (479, 18387), (490, 18417), (498, 18438), (531, 18531), (538, 18546), (540, 18555), (548, 18576), (549, 18579), (573, 18663), (574, 18666), (576, 18675), (583, 18702), (586, 18711), (592, 18750), (596, 18771), (598, 18774), (609, 18810), (614, 18831), (636, 18909), (637, 18912), (666, 18966), (681, 19026), (702, 19119), (704, 19137), (705, 19140), (716, 19176), (729, 19230), (732, 19239), (750, 19317), (755, 19335), (769, 19371), (770, 19374), (776, 19392), (777, 19395), (780, 19410), (797, 19467), (799, 19479), (823, 19575), (840, 19662), (852, 19710), (857, 19734), (871, 19770), (879, 19809), (890, 19848), (896, 19872), (899, 19893), (912, 19989), (918, 20010), (929, 20073), (933, 20100), (936, 20109),

Gene: MadamMonkfish_26 Start: 21702, Stop: 24098, Start Num: 148

Candidate Starts for MadamMonkfish_26:

(Start: 148 @21702 has 132 MA's), (248, 21879), (259, 21900), (342, 22047), (391, 22221), (404, 22254), (420, 22290), (479, 22383), (501, 22443), (508, 22461), (552, 22593), (566, 22638), (598,

22770), (610, 22815), (630, 22875), (672, 22989), (677, 23010), (688, 23049), (691, 23070), (695, 23085), (732, 23235), (734, 23241), (737, 23259), (752, 23313), (780, 23397), (807, 23490), (871, 23736), (912, 23952), (926, 24036), (933, 24069),

Gene: Madiba_19 Start: 17273, Stop: 19762, Start Num: 100

Candidate Starts for Madiba_19:

(Start: 100 @17273 has 238 MA's), (113, 17294), (Start: 125 @17315 has 1 MA's), (143, 17354), (188, 17423), (194, 17432), (196, 17435), (204, 17453), (233, 17501), (290, 17603), (308, 17639), (309, 17645), (311, 17648), (327, 17666), (335, 17690), (345, 17714), (366, 17777), (389, 17861), (392, 17870), (404, 17894), (416, 17918), (428, 17942), (431, 17948), (442, 17969), (461, 17990), (479, 18020), (490, 18050), (498, 18071), (531, 18164), (538, 18179), (540, 18188), (548, 18209), (549, 18212), (573, 18296), (574, 18299), (576, 18308), (583, 18335), (586, 18344), (592, 18383), (596, 18404), (598, 18407), (609, 18443), (614, 18464), (636, 18542), (637, 18545), (666, 18599), (681, 18659), (702, 18752), (704, 18770), (705, 18773), (716, 18809), (729, 18863), (732, 18872), (750, 18950), (755, 18968), (769, 19004), (770, 19007), (776, 19025), (777, 19028), (780, 19043), (797, 19100), (799, 19112), (823, 19208), (840, 19295), (852, 19343), (857, 19367), (865, 19394), (871, 19403), (879, 19442), (890, 19481), (896, 19505), (899, 19526), (912, 19622), (918, 19643), (929, 19706), (933, 19733), (936, 19742),

Gene: Mahavrat_18 Start: 17394, Stop: 19931, Start Num: 100

Candidate Starts for Mahavrat_18:

(Start: 100 @17394 has 238 MA's), (113, 17415), (Start: 125 @17436 has 1 MA's), (142, 17475), (188, 17544), (194, 17553), (196, 17556), (204, 17574), (222, 17607), (233, 17622), (307, 17781), (308, 17784), (330, 17829), (357, 17907), (362, 17931), (380, 17997), (404, 18072), (407, 18078), (428, 18120), (431, 18126), (432, 18129), (456, 18162), (461, 18168), (479, 18198), (488, 18219), (498, 18249), (501, 18258), (540, 18366), (545, 18378), (548, 18387), (549, 18390), (550, 18399), (551, 18405), (554, 18420), (555, 18423), (561, 18444), (576, 18486), (585, 18519), (610, 18630), (611, 18633), (621, 18660), (623, 18666), (636, 18720), (637, 18723), (652, 18750), (658, 18759), (677, 18825), (681, 18837), (682, 18840), (697, 18906), (701, 18927), (702, 18930), (705, 18951), (719, 19002), (724, 19020), (725, 19023), (732, 19053), (737, 19077), (743, 19089), (745, 19098), (776, 19194), (780, 19212), (784, 19221), (786, 19233), (797, 19269), (804, 19299), (809, 19320), (816, 19344), (823, 19380), (849, 19494), (858, 19536), (896, 19671), (900, 19695), (908, 19749), (918, 19818), (925, 19863), (926, 19866), (928, 19872),

Gene: Manda_27 Start: 22769, Stop: 25165, Start Num: 148

Candidate Starts for Manda_27:

(Start: 148 @22769 has 132 MA's), (248, 22946), (259, 22967), (342, 23114), (382, 23255), (391, 23288), (404, 23321), (420, 23357), (479, 23450), (501, 23510), (508, 23528), (552, 23660), (566, 23705), (598, 23837), (610, 23882), (630, 23942), (672, 24056), (677, 24077), (688, 24116), (691, 24137), (695, 24152), (732, 24302), (734, 24308), (737, 24326), (752, 24380), (780, 24464), (807, 24557), (871, 24803), (912, 25019), (926, 25103), (933, 25136),

Gene: Mandlovu_18 Start: 17495, Stop: 20032, Start Num: 100

Candidate Starts for Mandlovu_18:

(Start: 100 @17495 has 238 MA's), (113, 17516), (Start: 125 @17537 has 1 MA's), (142, 17576), (188, 17645), (194, 17654), (196, 17657), (204, 17675), (233, 17723), (307, 17882), (308, 17885), (329, 17927), (330, 17930), (357, 18008), (361, 18029), (362, 18032), (380, 18098), (404, 18173), (407, 18179), (428, 18221), (431, 18227), (432, 18230), (456, 18263), (461, 18269), (479, 18299), (488, 18320), (498, 18350), (501, 18359), (540, 18467), (545, 18479), (548, 18488), (549, 18491), (550, 18500), (551, 18506), (554, 18521), (555, 18524), (561, 18545), (576, 18587), (585, 18620), (621, 18761), (623, 18767), (636, 18821), (637, 18824), (652, 18851), (677, 18926), (681, 18938), (682, 18941), (697, 19007), (702, 19031), (705, 19052), (707, 19061), (724, 19121), (725, 19124), (734, 19160), (737, 19178), (745, 19199), (751, 19226), (776, 19295), (780, 19313), (784, 19322), (786,

19334), (797, 19370), (804, 19400), (823, 19481), (849, 19595), (858, 19637), (896, 19772), (900, 19796), (908, 19850), (925, 19964), (926, 19967),

Gene: Mantra_18 Start: 17496, Stop: 20033, Start Num: 100

Candidate Starts for Mantra_18:

(Start: 100 @17496 has 238 MA's), (113, 17517), (Start: 125 @17538 has 1 MA's), (142, 17577), (188, 17646), (194, 17655), (196, 17658), (204, 17676), (233, 17724), (303, 17877), (308, 17886), (330, 17931), (361, 18030), (362, 18033), (380, 18099), (404, 18174), (407, 18180), (416, 18198), (428, 18222), (431, 18228), (432, 18231), (456, 18264), (461, 18270), (479, 18300), (488, 18321), (498, 18351), (501, 18360), (507, 18375), (508, 18378), (548, 18489), (549, 18492), (550, 18501), (551, 18507), (554, 18522), (555, 18525), (561, 18546), (573, 18576), (576, 18588), (585, 18621), (610, 18732), (611, 18735), (621, 18762), (623, 18768), (636, 18822), (637, 18825), (674, 18912), (677, 18927), (681, 18939), (682, 18942), (697, 19008), (702, 19032), (705, 19053), (707, 19062), (724, 19122), (725, 19125), (734, 19161), (737, 19179), (743, 19191), (745, 19200), (751, 19227), (773, 19284), (776, 19296), (780, 19314), (784, 19323), (786, 19335), (797, 19371), (804, 19401), (807, 19410), (809, 19422), (823, 19482), (833, 19536), (849, 19596), (858, 19638), (896, 19773), (900, 19797), (908, 19851), (912, 19899), (922, 19941), (925, 19965), (926, 19968),

Gene: Mao1_26 Start: 25993, Stop: 28746, Start Num: 74

Candidate Starts for Mao1_26:

(60, 25900), (Start: 74 @25993 has 3 MA's), (104, 26071), (126, 26107), (138, 26134), (149, 26158), (189, 26227), (220, 26296), (232, 26320), (238, 26332), (328, 26566), (333, 26578), (336, 26593), (351, 26629), (362, 26671), (378, 26725), (392, 26773), (403, 26803), (405, 26806), (448, 26914), (470, 26968), (479, 26983), (486, 26998), (513, 27067), (518, 27088), (526, 27106), (539, 27139), (544, 27163), (546, 27166), (556, 27217), (572, 27253), (575, 27277), (583, 27313), (586, 27322), (588, 27337), (592, 27364), (599, 27394), (607, 27430), (611, 27448), (612, 27451), (616, 27460), (652, 27586), (668, 27634), (699, 27766), (704, 27793), (719, 27844), (722, 27856), (724, 27862), (737, 27919), (749, 27958), (765, 28006), (776, 28033), (784, 28063), (788, 28081), (796, 28111), (798, 28123), (801, 28135), (825, 28243), (827, 28258), (833, 28291), (837, 28312), (853, 28378), (860, 28408), (863, 28414), (878, 28474), (881, 28483), (884, 28492), (900, 28567), (901, 28582), (903, 28588), (908, 28624), (923, 28738),

Gene: Maravista_18 Start: 17343, Stop: 19880, Start Num: 100

Candidate Starts for Maravista_18:

(96, 17331), (Start: 100 @17343 has 238 MA's), (113, 17364), (Start: 125 @17385 has 1 MA's), (142, 17424), (188, 17493), (194, 17502), (196, 17505), (204, 17523), (222, 17556), (233, 17571), (257, 17619), (307, 17730), (308, 17733), (325, 17763), (329, 17775), (330, 17778), (357, 17856), (362, 17880), (380, 17946), (392, 17991), (404, 18021), (407, 18027), (416, 18045), (428, 18069), (432, 18078), (456, 18111), (461, 18117), (479, 18147), (495, 18186), (498, 18198), (501, 18207), (507, 18222), (508, 18225), (548, 18336), (549, 18339), (550, 18348), (551, 18354), (554, 18369), (555, 18372), (561, 18393), (573, 18423), (576, 18435), (585, 18468), (610, 18579), (611, 18582), (621, 18609), (623, 18615), (636, 18669), (637, 18672), (677, 18774), (681, 18786), (682, 18789), (697, 18855), (702, 18879), (705, 18900), (707, 18909), (724, 18969), (725, 18972), (734, 19008), (737, 19026), (743, 19038), (745, 19047), (751, 19074), (776, 19143), (780, 19161), (784, 19170), (786, 19182), (797, 19218), (804, 19248), (809, 19269), (816, 19293), (823, 19329), (833, 19383), (849, 19443), (858, 19485), (896, 19620), (900, 19644), (908, 19698), (912, 19746), (918, 19767), (922, 19788), (925, 19812), (926, 19815),

Gene: MarkPhew_27 Start: 19997, Stop: 22450, Start Num: 151

Candidate Starts for MarkPhew_27:

(Start: 151 @19997 has 97 MA's), (171, 20045), (247, 20168), (274, 20225), (281, 20237), (337, 20354), (356, 20405), (390, 20534), (407, 20567), (448, 20678), (452, 20687), (453, 20696), (460, 20717), (482, 20765), (517, 20867), (562, 21026), (582, 21107), (605, 21209), (667, 21413), (670,

21422), (682, 21464), (691, 21509), (695, 21524), (739, 21707), (755, 21764), (792, 21866), (797, 21890), (810, 21947), (814, 21962), (842, 22091), (874, 22196), (911, 22415),

Gene: Marker_19 Start: 17246, Stop: 19783, Start Num: 100

Candidate Starts for Marker_19:

(Start: 100 @17246 has 238 MA's), (113, 17267), (Start: 125 @17288 has 1 MA's), (142, 17327), (188, 17396), (194, 17405), (196, 17408), (204, 17426), (233, 17474), (303, 17627), (308, 17636), (330, 17681), (361, 17780), (362, 17783), (380, 17849), (404, 17924), (407, 17930), (416, 17948), (428, 17972), (432, 17981), (456, 18014), (461, 18020), (479, 18050), (488, 18071), (495, 18089), (498, 18101), (501, 18110), (507, 18125), (508, 18128), (548, 18239), (549, 18242), (550, 18251), (551, 18257), (554, 18272), (555, 18275), (561, 18296), (573, 18326), (576, 18338), (585, 18371), (610, 18482), (611, 18485), (621, 18512), (623, 18518), (636, 18572), (637, 18575), (664, 18623), (674, 18662), (677, 18677), (681, 18689), (682, 18692), (687, 18713), (697, 18758), (702, 18782), (707, 18812), (719, 18854), (724, 18872), (725, 18875), (734, 18911), (737, 18929), (743, 18941), (745, 18950), (752, 18983), (776, 19046), (780, 19064), (784, 19073), (786, 19085), (804, 19151), (809, 19172), (816, 19196), (823, 19232), (833, 19286), (849, 19346), (858, 19388), (880, 19466), (896, 19523), (900, 19547), (908, 19601), (912, 19649), (922, 19691), (925, 19715), (926, 19718),

Gene: Marshawn_28 Start: 20676, Stop: 23132, Start Num: 151

Candidate Starts for Marshawn_28:

(Start: 151 @20676 has 97 MA's), (161, 20703), (214, 20775), (247, 20847), (274, 20904), (281, 20916), (296, 20949), (332, 21015), (337, 21033), (346, 21057), (348, 21060), (356, 21084), (374, 21156), (407, 21246), (424, 21282), (452, 21366), (473, 21420), (482, 21441), (483, 21447), (498, 21486), (517, 21543), (562, 21702), (573, 21741), (582, 21783), (587, 21801), (605, 21885), (611, 21915), (619, 21939), (629, 21972), (632, 21993), (666, 22077), (670, 22098), (682, 22140), (692, 22191), (695, 22200), (702, 22227), (718, 22287), (734, 22353), (737, 22374), (739, 22383), (752, 22431), (766, 22470), (783, 22515), (792, 22545), (802, 22590), (814, 22641), (816, 22647), (842, 22770), (861, 22839), (876, 22881), (910, 23067), (911, 23097),

Gene: Marshmallow_26 Start: 22283, Stop: 24679, Start Num: 148

Candidate Starts for Marshmallow_26:

(Start: 148 @22283 has 132 MA's), (248, 22460), (259, 22481), (342, 22628), (382, 22769), (391, 22802), (404, 22835), (420, 22871), (479, 22964), (501, 23024), (508, 23042), (538, 23123), (598, 23351), (610, 23396), (677, 23591), (679, 23597), (682, 23606), (691, 23651), (695, 23666), (734, 23822), (737, 23840), (740, 23849), (780, 23978), (781, 23981), (832, 24191), (834, 24203), (871, 24317), (912, 24533), (926, 24617), (931, 24641), (933, 24650),

Gene: Martik_18 Start: 17406, Stop: 19958, Start Num: 100

Candidate Starts for Martik_18:

(Start: 100 @17406 has 238 MA's), (142, 17487), (188, 17556), (194, 17565), (196, 17568), (204, 17586), (233, 17634), (256, 17679), (307, 17793), (308, 17796), (314, 17808), (326, 17829), (329, 17838), (330, 17841), (346, 17889), (357, 17919), (373, 17985), (382, 18018), (392, 18054), (402, 18078), (431, 18138), (432, 18141), (442, 18159), (486, 18222), (488, 18225), (495, 18243), (501, 18264), (508, 18282), (517, 18309), (523, 18330), (538, 18363), (550, 18405), (551, 18411), (552, 18414), (555, 18429), (564, 18456), (566, 18459), (573, 18480), (576, 18492), (585, 18525), (606, 18618), (636, 18726), (643, 18750), (652, 18756), (663, 18774), (664, 18777), (669, 18801), (677, 18831), (685, 18855), (691, 18891), (692, 18897), (695, 18906), (701, 18933), (713, 18996), (719, 19020), (720, 19035), (732, 19077), (746, 19128), (777, 19224), (780, 19239), (784, 19248), (791, 19272), (807, 19335), (816, 19371), (892, 19677), (900, 19722), (912, 19824),

Gene: MaryV_43 Start: 28332, Stop: 30899, Start Num: 102

Candidate Starts for MaryV_43:

(Start: 102 @28332 has 6 MA's), (132, 28401), (200, 28524), (203, 28530), (204, 28533), (219, 28557), (230, 28578), (302, 28734), (305, 28740), (308, 28746), (320, 28776), (322, 28782), (330, 28803), (334, 28812), (353, 28872), (375, 28950), (407, 29049), (422, 29082), (431, 29097), (432, 29100), (461, 29139), (488, 29190), (495, 29208), (501, 29229), (504, 29235), (514, 29262), (520, 29289), (548, 29358), (553, 29382), (556, 29403), (567, 29424), (571, 29433), (576, 29454), (585, 29487), (586, 29490), (594, 29541), (598, 29553), (618, 29619), (624, 29637), (632, 29676), (677, 29793), (689, 29838), (701, 29895), (705, 29919), (707, 29928), (711, 29946), (724, 29991), (732, 30024), (739, 30060), (794, 30234), (797, 30252), (798, 30258), (813, 30315), (895, 30639), (897, 30657), (905, 30708), (914, 30771), (925, 30846),

Gene: Mask_27 Start: 25986, Stop: 28739, Start Num: 74

Candidate Starts for Mask_27:

(60, 25893), (Start: 74 @25986 has 3 MA's), (104, 26064), (126, 26100), (138, 26127), (149, 26151), (189, 26220), (220, 26289), (232, 26313), (238, 26325), (328, 26559), (333, 26571), (336, 26586), (351, 26622), (362, 26664), (378, 26718), (392, 26766), (403, 26796), (405, 26799), (448, 26907), (470, 26961), (479, 26976), (486, 26991), (513, 27060), (518, 27081), (526, 27099), (539, 27132), (544, 27156), (546, 27159), (556, 27210), (572, 27246), (575, 27270), (583, 27306), (586, 27315), (588, 27330), (592, 27357), (599, 27387), (607, 27423), (611, 27441), (612, 27444), (616, 27453), (652, 27579), (668, 27627), (699, 27759), (704, 27786), (719, 27837), (722, 27849), (724, 27855), (737, 27912), (749, 27951), (765, 27999), (776, 28026), (784, 28056), (788, 28074), (796, 28104), (798, 28116), (801, 28128), (825, 28236), (827, 28251), (833, 28284), (837, 28305), (853, 28371), (860, 28401), (863, 28407), (878, 28467), (881, 28476), (884, 28485), (900, 28560), (901, 28575), (903, 28581), (908, 28617), (923, 28731),

Gene: MasterPo_32 Start: 29974, Stop: 32694, Start Num: 75

Candidate Starts for MasterPo_32:

(Start: 75 @29974 has 36 MA's), (94, 30028), (117, 30067), (138, 30112), (149, 30136), (152, 30139), (166, 30172), (225, 30280), (237, 30301), (238, 30304), (261, 30358), (288, 30418), (299, 30442), (313, 30478), (331, 30526), (336, 30547), (351, 30586), (362, 30625), (369, 30640), (381, 30694), (385, 30706), (392, 30730), (402, 30754), (408, 30766), (415, 30781), (422, 30796), (438, 30838), (446, 30856), (458, 30895), (470, 30919), (539, 31090), (556, 31168), (575, 31228), (583, 31264), (584, 31267), (599, 31345), (607, 31381), (613, 31405), (620, 31426), (673, 31597), (675, 31603), (699, 31714), (704, 31741), (722, 31804), (724, 31810), (726, 31825), (737, 31867), (765, 31954), (776, 31981), (784, 32011), (788, 32029), (795, 32050), (796, 32059), (797, 32065), (798, 32071), (801, 32083), (824, 32188), (827, 32206), (833, 32239), (853, 32326), (860, 32356), (863, 32362), (878, 32422), (900, 32515), (901, 32530), (903, 32536), (908, 32572), (923, 32686),

Gene: Mattes_18 Start: 17397, Stop: 19922, Start Num: 100

Candidate Starts for Mattes_18:

(Start: 100 @17397 has 238 MA's), (113, 17418), (123, 17439), (142, 17478), (188, 17547), (194, 17556), (196, 17559), (204, 17577), (233, 17625), (257, 17673), (307, 17784), (308, 17787), (326, 17820), (330, 17832), (357, 17910), (373, 17976), (382, 18009), (399, 18063), (404, 18075), (431, 18129), (432, 18132), (436, 18141), (462, 18174), (486, 18213), (488, 18216), (493, 18231), (495, 18234), (504, 18261), (506, 18267), (507, 18270), (508, 18273), (517, 18300), (522, 18318), (523, 18321), (550, 18396), (554, 18417), (555, 18420), (564, 18447), (573, 18471), (585, 18516), (586, 18519), (594, 18570), (611, 18633), (614, 18642), (622, 18666), (664, 18771), (665, 18774), (677, 18825), (679, 18831), (681, 18837), (682, 18840), (691, 18885), (695, 18900), (701, 18927), (705, 18951), (719, 19002), (724, 19020), (725, 19023), (726, 19035), (743, 19089), (780, 19212), (798, 19275), (814, 19338), (828, 19413), (885, 19614), (921, 19824), (928, 19863), (929, 19866),

Gene: Maxxinista_27 Start: 21751, Stop: 24147, Start Num: 148

Candidate Starts for Maxxinista_27:

(Start: 148 @21751 has 132 MA's), (248, 21928), (259, 21949), (342, 22096), (391, 22270), (404, 22303), (420, 22339), (479, 22432), (501, 22492), (508, 22510), (552, 22642), (566, 22687), (598, 22819), (610, 22864), (630, 22924), (672, 23038), (677, 23059), (688, 23098), (691, 23119), (695, 23134), (732, 23284), (734, 23290), (737, 23308), (752, 23362), (780, 23446), (807, 23539), (871, 23785), (912, 24001), (926, 24085), (933, 24118),

Gene: MeaningOfLife_27 Start: 20848, Stop: 23280, Start Num: 151

Candidate Starts for MeaningOfLife_27:

(Start: 151 @20848 has 97 MA's), (214, 20947), (281, 21088), (339, 21208), (346, 21229), (416, 21436), (431, 21469), (439, 21499), (473, 21571), (482, 21595), (548, 21793), (556, 21838), (561, 21850), (565, 21859), (577, 21910), (619, 22090), (624, 22105), (641, 22174), (646, 22186), (670, 22249), (682, 22291), (691, 22330), (692, 22336), (695, 22345), (700, 22366), (715, 22426), (745, 22543), (755, 22585), (783, 22657), (785, 22666), (792, 22687), (808, 22759), (813, 22780), (833, 22876), (848, 22939), (872, 23023), (882, 23065), (894, 23104),

Gene: Medindi_18 Start: 17393, Stop: 19930, Start Num: 100

Candidate Starts for Medindi_18:

(96, 17381), (Start: 100 @17393 has 238 MA's), (113, 17414), (Start: 125 @17435 has 1 MA's), (142, 17474), (188, 17543), (194, 17552), (196, 17555), (204, 17573), (222, 17606), (233, 17621), (257, 17669), (307, 17780), (308, 17783), (325, 17813), (327, 17816), (330, 17828), (357, 17906), (362, 17930), (380, 17996), (392, 18041), (404, 18071), (407, 18077), (416, 18095), (428, 18119), (432, 18128), (456, 18161), (461, 18167), (479, 18197), (498, 18248), (501, 18257), (507, 18272), (508, 18275), (548, 18386), (549, 18389), (550, 18398), (551, 18404), (554, 18419), (555, 18422), (561, 18443), (573, 18473), (576, 18485), (585, 18518), (610, 18629), (611, 18632), (621, 18659), (623, 18665), (636, 18719), (637, 18722), (677, 18824), (681, 18836), (682, 18839), (697, 18905), (701, 18926), (702, 18929), (705, 18950), (707, 18959), (724, 19019), (725, 19022), (734, 19058), (737, 19076), (743, 19088), (745, 19097), (751, 19124), (776, 19193), (780, 19211), (784, 19220), (786, 19232), (797, 19268), (804, 19298), (809, 19319), (816, 19343), (823, 19379), (833, 19433), (849, 19493), (858, 19535), (880, 19613), (896, 19670), (900, 19694), (908, 19748), (912, 19796), (922, 19838), (925, 19862), (926, 19865),

Gene: Megatron06_31 Start: 26215, Stop: 29058, Start Num: 36

Candidate Starts for Megatron06_31:

(Start: 36 @26215 has 10 MA's), (65, 26347), (67, 26359), (68, 26368), (83, 26437), (85, 26443), (124, 26503), (131, 26524), (154, 26572), (173, 26614), (190, 26638), (208, 26671), (227, 26707), (234, 26719), (280, 26812), (303, 26869), (323, 26908), (366, 27034), (382, 27103), (390, 27133), (407, 27175), (432, 27226), (484, 27316), (495, 27334), (520, 27415), (538, 27454), (545, 27475), (585, 27613), (591, 27652), (609, 27715), (637, 27817), (705, 28042), (805, 28405), (812, 28432), (866, 28675), (877, 28708), (882, 28732), (906, 28852), (919, 28930), (935, 29017), (938, 29032), (939, 29038),

Gene: Megsy_27 Start: 20849, Stop: 23281, Start Num: 151

Candidate Starts for Megsy_27:

(Start: 151 @20849 has 97 MA's), (214, 20948), (339, 21209), (416, 21437), (431, 21470), (439, 21500), (473, 21572), (482, 21596), (548, 21794), (556, 21839), (561, 21851), (565, 21860), (577, 21911), (619, 22091), (624, 22106), (641, 22175), (646, 22187), (670, 22250), (682, 22292), (691, 22331), (692, 22337), (695, 22346), (700, 22367), (715, 22427), (745, 22544), (755, 22586), (783, 22658), (785, 22667), (792, 22688), (808, 22760), (813, 22781), (833, 22877), (894, 23105), (912, 23252),

Gene: Melissauren88_18 Start: 17470, Stop: 19965, Start Num: 125

Candidate Starts for Melissauren88_18:

(96, 17416), (Start: 100 @17428 has 238 MA's), (113, 17449), (Start: 125 @17470 has 1 MA's), (142, 17509), (188, 17578), (194, 17587), (196, 17590), (204, 17608), (222, 17641), (233, 17656), (257, 17704), (307, 17815), (308, 17818), (325, 17848), (329, 17860), (330, 17863), (357, 17941), (362, 17965), (380, 18031), (392, 18076), (404, 18106), (407, 18112), (416, 18130), (428, 18154), (432, 18163), (456, 18196), (461, 18202), (479, 18232), (495, 18271), (498, 18283), (501, 18292), (507, 18307), (508, 18310), (548, 18421), (549, 18424), (550, 18433), (551, 18439), (554, 18454), (555, 18457), (561, 18478), (573, 18508), (576, 18520), (585, 18553), (610, 18664), (611, 18667), (621, 18694), (623, 18700), (636, 18754), (637, 18757), (674, 18844), (677, 18859), (681, 18871), (682, 18874), (697, 18940), (702, 18964), (705, 18985), (707, 18994), (724, 19054), (725, 19057), (734, 19093), (737, 19111), (743, 19123), (745, 19132), (751, 19159), (776, 19228), (780, 19246), (784, 19255), (786, 19267), (797, 19303), (804, 19333), (809, 19354), (816, 19378), (823, 19414), (833, 19468), (849, 19528), (858, 19570), (880, 19648), (896, 19705), (900, 19729), (908, 19783), (912, 19831), (922, 19873), (925, 19897), (926, 19900),

Gene: Mercurio_24 Start: 21194, Stop: 23665, Start Num: 97

Candidate Starts for Mercurio_24:

(Start: 97 @21194 has 9 MA's), (129, 21260), (147, 21302), (217, 21410), (281, 21533), (309, 21596), (345, 21674), (431, 21905), (451, 21938), (459, 21950), (502, 22052), (517, 22094), (531, 22133), (537, 22148), (552, 22199), (563, 22235), (582, 22301), (588, 22328), (636, 22526), (664, 22601), (668, 22622), (695, 22730), (703, 22775), (719, 22826), (724, 22850), (733, 22886), (737, 22910), (744, 22931), (792, 23069), (814, 23165), (843, 23303),

Gene: MiaZeal_36 Start: 27554, Stop: 30061, Start Num: 100

Candidate Starts for MiaZeal_36:

(Start: 100 @27554 has 238 MA's), (204, 27749), (222, 27785), (233, 27800), (285, 27887), (290, 27902), (330, 27977), (335, 27989), (346, 28016), (376, 28121), (389, 28160), (392, 28169), (404, 28193), (407, 28199), (416, 28217), (432, 28250), (436, 28259), (442, 28268), (456, 28283), (473, 28310), (479, 28319), (495, 28358), (498, 28370), (501, 28379), (531, 28463), (555, 28544), (566, 28574), (567, 28577), (576, 28607), (583, 28634), (586, 28643), (594, 28694), (596, 28703), (598, 28706), (609, 28742), (614, 28763), (626, 28799), (679, 28952), (691, 29006), (702, 29051), (704, 29069), (705, 29072), (716, 29111), (750, 29258), (752, 29267), (777, 29336), (780, 29351), (823, 29516), (840, 29603), (852, 29651), (871, 29702), (890, 29780), (927, 30002), (929, 30005), (933, 30032),

Gene: MilleniumForce_19 Start: 18211, Stop: 20748, Start Num: 100

Candidate Starts for MilleniumForce_19:

(96, 18199), (Start: 100 @18211 has 238 MA's), (113, 18232), (Start: 125 @18253 has 1 MA's), (142, 18292), (188, 18361), (194, 18370), (196, 18373), (204, 18391), (222, 18424), (233, 18439), (257, 18487), (307, 18598), (308, 18601), (325, 18631), (329, 18643), (330, 18646), (357, 18724), (362, 18748), (380, 18814), (392, 18859), (404, 18889), (407, 18895), (416, 18913), (428, 18937), (432, 18946), (456, 18979), (461, 18985), (479, 19015), (495, 19054), (498, 19066), (501, 19075), (507, 19090), (508, 19093), (548, 19204), (549, 19207), (550, 19216), (551, 19222), (554, 19237), (555, 19240), (561, 19261), (573, 19291), (576, 19303), (585, 19336), (610, 19447), (611, 19450), (621, 19477), (623, 19483), (636, 19537), (637, 19540), (677, 19642), (681, 19654), (682, 19657), (697, 19723), (702, 19747), (705, 19768), (707, 19777), (724, 19837), (725, 19840), (734, 19876), (737, 19894), (743, 19906), (745, 19915), (751, 19942), (776, 20011), (780, 20029), (784, 20038), (786, 20050), (797, 20086), (804, 20116), (809, 20137), (816, 20161), (823, 20197), (833, 20251), (849, 20311), (858, 20353), (880, 20431), (896, 20488), (900, 20512), (908, 20566), (912, 20614), (922, 20656), (925, 20680), (926, 20683),

Gene: Mindy_26 Start: 22062, Stop: 24458, Start Num: 148

Candidate Starts for Mindy_26:

(Start: 148 @22062 has 132 MA's), (248, 22239), (259, 22260), (342, 22407), (382, 22548), (391, 22581), (404, 22614), (420, 22650), (479, 22743), (501, 22803), (508, 22821), (556, 22977), (566, 22998), (594, 23118), (598, 23130), (610, 23175), (677, 23370), (682, 23385), (691, 23430), (695, 23445), (734, 23601), (737, 23619), (740, 23628), (780, 23757), (781, 23760), (832, 23970), (834, 23982), (871, 24096), (912, 24312), (926, 24396), (931, 24420), (933, 24429),

Gene: Minerva_39 Start: 31221, Stop: 33764, Start Num: 100

Candidate Starts for Minerva_39:

(81, 31164), (Start: 100 @31221 has 238 MA's), (201, 31410), (233, 31467), (256, 31512), (307, 31626), (308, 31629), (318, 31650), (326, 31662), (330, 31674), (357, 31752), (373, 31818), (382, 31851), (392, 31887), (402, 31911), (431, 31971), (432, 31974), (442, 31992), (486, 32055), (488, 32058), (495, 32076), (501, 32097), (508, 32115), (517, 32142), (523, 32163), (538, 32196), (551, 32244), (552, 32247), (555, 32262), (564, 32289), (573, 32313), (585, 32358), (614, 32484), (636, 32562), (665, 32616), (677, 32667), (679, 32673), (681, 32679), (682, 32682), (691, 32727), (695, 32742), (701, 32769), (705, 32793), (719, 32844), (724, 32862), (725, 32865), (726, 32877), (743, 32931), (752, 32973), (798, 33117), (812, 33171), (813, 33177), (814, 33180), (820, 33216), (822, 33219), (825, 33228), (828, 33255), (885, 33456), (912, 33627), (921, 33666), (929, 33708),

Gene: MinionDave_19 Start: 18080, Stop: 20617, Start Num: 100

Candidate Starts for MinionDave_19:

(Start: 100 @18080 has 238 MA's), (Start: 151 @18170 has 97 MA's), (188, 18230), (194, 18239), (196, 18242), (204, 18260), (222, 18293), (233, 18308), (257, 18356), (307, 18467), (308, 18470), (325, 18500), (329, 18512), (330, 18515), (357, 18593), (362, 18617), (380, 18683), (392, 18728), (404, 18758), (407, 18764), (416, 18782), (428, 18806), (432, 18815), (456, 18848), (461, 18854), (479, 18884), (495, 18923), (498, 18935), (501, 18944), (507, 18959), (508, 18962), (548, 19073), (549, 19076), (550, 19085), (551, 19091), (554, 19106), (555, 19109), (561, 19130), (573, 19160), (576, 19172), (585, 19205), (610, 19316), (611, 19319), (621, 19346), (623, 19352), (636, 19406), (637, 19409), (674, 19496), (677, 19511), (681, 19523), (682, 19526), (697, 19592), (702, 19616), (705, 19637), (707, 19646), (724, 19706), (725, 19709), (734, 19745), (737, 19763), (743, 19775), (745, 19784), (751, 19811), (776, 19880), (780, 19898), (784, 19907), (786, 19919), (797, 19955), (804, 19985), (809, 20006), (816, 20030), (823, 20066), (833, 20120), (849, 20180), (858, 20222), (880, 20300), (896, 20357), (900, 20381), (908, 20435), (912, 20483), (922, 20525), (925, 20549), (926, 20552),

Gene: Miniwave_26 Start: 22481, Stop: 24877, Start Num: 148

Candidate Starts for Miniwave_26:

(Start: 148 @22481 has 132 MA's), (248, 22658), (259, 22679), (342, 22826), (382, 22967), (391, 23000), (404, 23033), (420, 23069), (479, 23162), (501, 23222), (508, 23240), (552, 23372), (566, 23417), (598, 23549), (610, 23594), (630, 23654), (672, 23768), (677, 23789), (688, 23828), (691, 23849), (695, 23864), (732, 24014), (734, 24020), (737, 24038), (752, 24092), (780, 24176), (807, 24269), (871, 24515), (912, 24731), (926, 24815), (933, 24848),

Gene: Minnie_19 Start: 17940, Stop: 20477, Start Num: 100

Candidate Starts for Minnie_19:

(96, 17928), (Start: 100 @17940 has 238 MA's), (113, 17961), (Start: 125 @17982 has 1 MA's), (142, 18021), (188, 18090), (194, 18099), (196, 18102), (204, 18120), (222, 18153), (233, 18168), (257, 18216), (307, 18327), (308, 18330), (325, 18360), (329, 18372), (330, 18375), (357, 18453), (362, 18477), (380, 18543), (392, 18588), (404, 18618), (407, 18624), (416, 18642), (428, 18666), (432, 18675), (456, 18708), (461, 18714), (479, 18744), (495, 18783), (498, 18795), (501, 18804), (507, 18819), (508, 18822), (548, 18933), (549, 18936), (550, 18945), (551, 18951), (554, 18966), (555, 18969), (561, 18990), (573, 19020), (576, 19032), (585, 19065), (610, 19176), (611, 19179), (621, 19206), (623, 19212), (636, 19266), (637, 19269), (677, 19371), (681, 19383), (682, 19386), (697, 19452), (702, 19476), (705, 19497), (707, 19506), (724, 19566), (725, 19569), (734, 19605), (737,

19623), (743, 19635), (745, 19644), (751, 19671), (776, 19740), (780, 19758), (784, 19767), (786, 19779), (797, 19815), (804, 19845), (809, 19866), (816, 19890), (823, 19926), (833, 19980), (849, 20040), (858, 20082), (880, 20160), (896, 20217), (900, 20241), (908, 20295), (912, 20343), (922, 20385), (925, 20409), (926, 20412),

Gene: Misfit_26 Start: 22371, Stop: 24767, Start Num: 148

Candidate Starts for Misfit_26:

(Start: 148 @22371 has 132 MA's), (248, 22548), (259, 22569), (342, 22716), (382, 22857), (391, 22890), (404, 22923), (420, 22959), (479, 23052), (501, 23112), (508, 23130), (552, 23262), (566, 23307), (598, 23439), (610, 23484), (630, 23544), (672, 23658), (677, 23679), (688, 23718), (691, 23739), (695, 23754), (732, 23904), (734, 23910), (737, 23928), (752, 23982), (780, 24066), (807, 24159), (871, 24405), (912, 24621), (926, 24705), (933, 24738),

Gene: Misha28_19 Start: 17273, Stop: 19798, Start Num: 100

Candidate Starts for Misha28_19:

(Start: 100 @17273 has 238 MA's), (113, 17294), (Start: 125 @17315 has 1 MA's), (142, 17354), (188, 17423), (194, 17432), (196, 17435), (204, 17453), (222, 17486), (233, 17501), (257, 17549), (307, 17660), (308, 17663), (330, 17708), (357, 17786), (362, 17810), (380, 17876), (392, 17921), (404, 17951), (407, 17957), (416, 17975), (428, 17999), (432, 18008), (456, 18041), (461, 18047), (479, 18077), (495, 18116), (498, 18128), (501, 18137), (507, 18152), (508, 18155), (555, 18302), (573, 18353), (597, 18464), (611, 18515), (620, 18539), (652, 18632), (669, 18677), (672, 18686), (677, 18707), (681, 18719), (682, 18722), (691, 18767), (702, 18812), (704, 18830), (705, 18833), (719, 18884), (732, 18935), (734, 18941), (737, 18959), (743, 18971), (745, 18980), (752, 19013), (780, 19094), (799, 19163), (807, 19190), (813, 19217), (825, 19268), (833, 19316), (899, 19559), (912, 19664), (918, 19685), (928, 19739), (932, 19763),

Gene: MisterCuddles_18 Start: 17371, Stop: 19908, Start Num: 100

Candidate Starts for MisterCuddles_18:

(Start: 100 @17371 has 238 MA's), (113, 17392), (Start: 125 @17413 has 1 MA's), (142, 17452), (188, 17521), (194, 17530), (196, 17533), (204, 17551), (222, 17584), (233, 17599), (303, 17752), (308, 17761), (330, 17806), (361, 17905), (362, 17908), (380, 17974), (404, 18049), (407, 18055), (428, 18097), (431, 18103), (432, 18106), (456, 18139), (461, 18145), (479, 18175), (488, 18196), (498, 18226), (501, 18235), (507, 18250), (508, 18253), (548, 18364), (549, 18367), (550, 18376), (551, 18382), (554, 18397), (555, 18400), (561, 18421), (573, 18451), (576, 18463), (585, 18496), (610, 18607), (611, 18610), (621, 18637), (623, 18643), (636, 18697), (637, 18700), (674, 18787), (677, 18802), (681, 18814), (682, 18817), (697, 18883), (702, 18907), (705, 18928), (707, 18937), (719, 18979), (724, 18997), (725, 19000), (732, 19030), (737, 19054), (743, 19066), (745, 19075), (776, 19171), (780, 19189), (784, 19198), (786, 19210), (797, 19246), (804, 19276), (807, 19285), (809, 19297), (823, 19357), (833, 19411), (849, 19471), (858, 19513), (896, 19648), (900, 19672), (908, 19726), (912, 19774), (922, 19816), (925, 19840), (926, 19843),

Gene: Modragons_18 Start: 17634, Stop: 20171, Start Num: 100

Candidate Starts for Modragons_18:

(Start: 100 @17634 has 238 MA's), (113, 17655), (Start: 125 @17676 has 1 MA's), (142, 17715), (188, 17784), (194, 17793), (196, 17796), (204, 17814), (233, 17862), (307, 18021), (308, 18024), (329, 18066), (330, 18069), (357, 18147), (361, 18168), (362, 18171), (380, 18237), (382, 18246), (392, 18282), (404, 18312), (407, 18318), (428, 18360), (431, 18366), (432, 18369), (456, 18402), (461, 18408), (479, 18438), (488, 18459), (498, 18489), (501, 18498), (540, 18606), (545, 18618), (548, 18627), (549, 18630), (550, 18639), (551, 18645), (554, 18660), (555, 18663), (561, 18684), (576, 18726), (585, 18759), (621, 18900), (623, 18906), (636, 18960), (637, 18963), (652, 18990), (677, 19065), (681, 19077), (682, 19080), (697, 19146), (701, 19167), (702, 19170), (705, 19191), (719, 19242), (724, 19260), (725, 19263), (732, 19293), (737, 19317), (743, 19329), (776, 19434), (780, 19452), (784, 19461), (786, 19473), (797, 19509), (804, 19539), (809, 19560), (816, 19584), (823,

19620), (849, 19734), (858, 19776), (880, 19854), (896, 19911), (900, 19935), (908, 19989), (912, 20037), (922, 20079), (925, 20103), (926, 20106),

Gene: Moldemort_27 Start: 22026, Stop: 24422, Start Num: 148

Candidate Starts for Moldemort_27:

(Start: 148 @22026 has 132 MA's), (248, 22203), (259, 22224), (342, 22371), (391, 22545), (404, 22578), (420, 22614), (479, 22707), (501, 22767), (508, 22785), (552, 22917), (566, 22962), (598, 23094), (610, 23139), (630, 23199), (672, 23313), (677, 23334), (688, 23373), (691, 23394), (695, 23409), (732, 23559), (734, 23565), (737, 23583), (752, 23637), (780, 23721), (807, 23814), (871, 24060), (912, 24276), (926, 24360), (933, 24393),

Gene: MollyToe_26 Start: 22455, Stop: 24851, Start Num: 148

Candidate Starts for MollyToe_26:

(Start: 148 @22455 has 132 MA's), (248, 22632), (259, 22653), (342, 22800), (382, 22941), (391, 22974), (404, 23007), (420, 23043), (479, 23136), (501, 23196), (508, 23214), (552, 23346), (566, 23391), (598, 23523), (610, 23568), (672, 23742), (677, 23763), (688, 23802), (691, 23823), (695, 23838), (734, 23994), (737, 24012), (752, 24066), (780, 24150), (807, 24243), (871, 24489), (912, 24705), (926, 24789), (933, 24822),

Gene: MontyDev_30 Start: 24302, Stop: 27778, Start Num: 5

Candidate Starts for MontyDev_30:

(Start: 2 @24278 has 9 MA's), (4, 24290), (Start: 5 @24302 has 1 MA's), (8, 24485), (12, 24566), (18, 24665), (20, 24689), (21, 24707), (39, 24866), (41, 24899), (52, 24947), (63, 24986), (92, 25112), (Start: 97 @25121 has 9 MA's), (183, 25307), (278, 25508), (345, 25685), (373, 25784), (382, 25817), (396, 25862), (401, 25874), (419, 25916), (423, 25922), (425, 25925), (467, 25994), (499, 26072), (501, 26078), (516, 26123), (517, 26126), (548, 26210), (568, 26279), (580, 26324), (590, 26369), (600, 26414), (606, 26435), (610, 26453), (611, 26456), (613, 26462), (614, 26465), (663, 26603), (675, 26651), (676, 26657), (695, 26738), (716, 26831), (729, 26891), (732, 26900), (734, 26906), (738, 26927), (789, 27092), (807, 27158), (809, 27170), (814, 27188), (816, 27194), (875, 27428), (882, 27467), (895, 27512), (899, 27542), (911, 27635), (918, 27662),

Gene: MooMoo_18 Start: 17135, Stop: 19570, Start Num: 100

Candidate Starts for MooMoo_18:

(Start: 100 @17135 has 238 MA's), (108, 17147), (119, 17168), (136, 17213), (146, 17231), (153, 17243), (197, 17318), (248, 17414), (272, 17441), (279, 17450), (286, 17468), (287, 17471), (294, 17480), (335, 17555), (338, 17564), (343, 17573), (377, 17651), (404, 17717), (407, 17723), (424, 17759), (426, 17762), (428, 17765), (431, 17771), (436, 17783), (442, 17792), (456, 17807), (483, 17858), (493, 17879), (495, 17882), (501, 17903), (510, 17927), (524, 17972), (548, 18032), (549, 18035), (553, 18056), (556, 18077), (571, 18110), (573, 18119), (585, 18164), (586, 18167), (587, 18173), (592, 18206), (594, 18218), (596, 18227), (598, 18230), (630, 18335), (637, 18368), (681, 18482), (692, 18536), (700, 18569), (701, 18572), (702, 18575), (704, 18593), (716, 18632), (732, 18695), (750, 18773), (755, 18791), (776, 18848), (777, 18851), (781, 18869), (798, 18929), (803, 18944), (816, 18998), (833, 19085), (857, 19190), (873, 19217), (890, 19289), (896, 19313), (912, 19430), (918, 19451), (927, 19511), (929, 19514), (933, 19541), (936, 19550),

Gene: Moonbeam_19 Start: 17889, Stop: 20426, Start Num: 100

Candidate Starts for Moonbeam_19:

(96, 17877), (Start: 100 @17889 has 238 MA's), (113, 17910), (Start: 125 @17931 has 1 MA's), (142, 17970), (188, 18039), (194, 18048), (196, 18051), (204, 18069), (222, 18102), (233, 18117), (257, 18165), (307, 18276), (308, 18279), (325, 18309), (329, 18321), (330, 18324), (357, 18402), (362, 18426), (380, 18492), (392, 18537), (404, 18567), (407, 18573), (416, 18591), (428, 18615), (432, 18624), (456, 18657), (461, 18663), (479, 18693), (495, 18732), (498, 18744), (501, 18753), (507, 18768), (508, 18771), (548, 18882), (549, 18885), (550, 18894), (551, 18900), (554, 18915), (555,

18918), (561, 18939), (573, 18969), (576, 18981), (585, 19014), (610, 19125), (611, 19128), (621, 19155), (623, 19161), (636, 19215), (637, 19218), (674, 19305), (677, 19320), (681, 19332), (682, 19335), (697, 19401), (702, 19425), (705, 19446), (707, 19455), (719, 19497), (724, 19515), (725, 19518), (734, 19554), (737, 19572), (743, 19584), (745, 19593), (751, 19620), (776, 19689), (780, 19707), (784, 19716), (786, 19728), (797, 19764), (804, 19794), (809, 19815), (816, 19839), (823, 19875), (833, 19929), (849, 19989), (858, 20031), (880, 20109), (896, 20166), (900, 20190), (908, 20244), (912, 20292), (922, 20334), (925, 20358), (926, 20361),

Gene: Mopey_30 Start: 24316, Stop: 26586, Start Num: 291

Candidate Starts for Mopey_30:

(Start: 291 @24316 has 22 MA's), (340, 24451), (344, 24460), (392, 24634), (394, 24640), (399, 24652), (465, 24805), (474, 24820), (482, 24835), (594, 25216), (595, 25222), (608, 25267), (631, 25354), (694, 25555), (696, 25561), (705, 25609), (710, 25639), (717, 25663), (764, 25852), (775, 25879), (789, 25927), (806, 25999), (816, 26038), (818, 26059), (821, 26074), (825, 26092), (829, 26122), (850, 26206), (907, 26407), (912, 26449), (937, 26575),

Gene: Mori_58 Start: 36137, Stop: 38647, Start Num: 114

Candidate Starts for Mori_58:

(Start: 114 @36137 has 34 MA's), (128, 36170), (163, 36239), (165, 36242), (179, 36266), (196, 36290), (209, 36314), (222, 36347), (310, 36554), (315, 36566), (316, 36569), (368, 36716), (373, 36746), (380, 36770), (392, 36800), (393, 36803), (404, 36830), (416, 36854), (431, 36884), (468, 36941), (481, 36965), (495, 37001), (498, 37013), (507, 37037), (508, 37040), (520, 37082), (554, 37178), (555, 37181), (627, 37436), (677, 37580), (691, 37640), (704, 37712), (705, 37715), (730, 37811), (780, 37985), (786, 38006), (812, 38099), (815, 38111), (833, 38201), (854, 38276), (879, 38321), (917, 38522), (924, 38576), (929, 38591),

Gene: Mosby_25 Start: 21791, Stop: 24187, Start Num: 148

Candidate Starts for Mosby_25:

(Start: 148 @21791 has 132 MA's), (248, 21968), (259, 21989), (342, 22136), (382, 22277), (391, 22310), (404, 22343), (420, 22379), (479, 22472), (501, 22532), (508, 22550), (552, 22682), (566, 22727), (598, 22859), (610, 22904), (672, 23078), (677, 23099), (688, 23138), (691, 23159), (695, 23174), (734, 23330), (737, 23348), (752, 23402), (780, 23486), (807, 23579), (871, 23825), (912, 24041), (926, 24125), (933, 24158),

Gene: Mova_19 Start: 17248, Stop: 19785, Start Num: 100

Candidate Starts for Mova_19:

(Start: 100 @17248 has 238 MA's), (113, 17269), (Start: 125 @17290 has 1 MA's), (142, 17329), (188, 17398), (194, 17407), (196, 17410), (204, 17428), (222, 17461), (233, 17476), (307, 17635), (308, 17638), (330, 17683), (357, 17761), (362, 17785), (380, 17851), (404, 17926), (407, 17932), (416, 17950), (428, 17974), (432, 17983), (456, 18016), (461, 18022), (479, 18052), (488, 18073), (495, 18091), (501, 18112), (507, 18127), (508, 18130), (540, 18220), (548, 18241), (549, 18244), (550, 18253), (551, 18259), (554, 18274), (555, 18277), (561, 18298), (576, 18340), (585, 18373), (598, 18439), (610, 18484), (611, 18487), (621, 18514), (623, 18520), (636, 18574), (637, 18577), (652, 18604), (674, 18664), (677, 18679), (681, 18691), (682, 18694), (697, 18760), (702, 18784), (707, 18814), (719, 18856), (724, 18874), (725, 18877), (734, 18913), (737, 18931), (743, 18943), (745, 18952), (751, 18979), (776, 19048), (780, 19066), (784, 19075), (786, 19087), (797, 19123), (804, 19153), (809, 19174), (816, 19198), (823, 19234), (833, 19288), (858, 19390), (896, 19525), (900, 19549), (908, 19603), (912, 19651), (922, 19693), (925, 19717), (926, 19720),

Gene: Mozy_19 Start: 17298, Stop: 19835, Start Num: 100

Candidate Starts for Mozy_19:

(Start: 100 @17298 has 238 MA's), (113, 17319), (Start: 125 @17340 has 1 MA's), (142, 17379), (188, 17448), (194, 17457), (196, 17460), (204, 17478), (222, 17511), (233, 17526), (307, 17685), (308,

17688), (325, 17718), (330, 17733), (357, 17811), (361, 17832), (362, 17835), (380, 17901), (404, 17976), (407, 17982), (428, 18024), (431, 18030), (432, 18033), (456, 18066), (461, 18072), (479, 18102), (488, 18123), (498, 18153), (501, 18162), (548, 18291), (549, 18294), (550, 18303), (551, 18309), (554, 18324), (555, 18327), (561, 18348), (573, 18378), (576, 18390), (585, 18423), (586, 18426), (598, 18489), (621, 18564), (623, 18570), (636, 18624), (637, 18627), (652, 18654), (677, 18729), (681, 18741), (682, 18744), (697, 18810), (702, 18834), (707, 18864), (724, 18924), (725, 18927), (734, 18963), (737, 18981), (745, 19002), (776, 19098), (780, 19116), (784, 19125), (786, 19137), (797, 19173), (809, 19224), (823, 19284), (833, 19338), (858, 19440), (880, 19518), (896, 19575), (900, 19599), (908, 19653), (912, 19701), (922, 19743), (925, 19767), (926, 19770),

Gene: MrMiyagi_24 Start: 20573, Stop: 24064, Start Num: 3

Candidate Starts for MrMiyagi_24:

(Start: 3 @20573 has 2 MA's), (9, 20798), (13, 20867), (16, 20900), (27, 21095), (42, 21191), (43, 21194), (46, 21200), (54, 21227), (61, 21245), (245, 21695), (252, 21716), (278, 21782), (325, 21902), (349, 21971), (350, 21977), (388, 22121), (401, 22154), (419, 22196), (465, 22271), (501, 22358), (531, 22445), (532, 22448), (538, 22460), (576, 22586), (585, 22619), (600, 22691), (610, 22730), (702, 23030), (721, 23120), (731, 23156), (898, 23810),

Gene: MulchExplorer_20 Start: 18519, Stop: 21056, Start Num: 100

Candidate Starts for MulchExplorer_20:

(96, 18507), (Start: 100 @18519 has 238 MA's), (113, 18540), (Start: 125 @18561 has 1 MA's), (142, 18600), (188, 18669), (194, 18678), (196, 18681), (204, 18699), (222, 18732), (233, 18747), (257, 18795), (307, 18906), (308, 18909), (325, 18939), (329, 18951), (330, 18954), (357, 19032), (362, 19056), (380, 19122), (392, 19167), (404, 19197), (407, 19203), (416, 19221), (428, 19245), (432, 19254), (456, 19287), (461, 19293), (479, 19323), (495, 19362), (498, 19374), (501, 19383), (507, 19398), (508, 19401), (548, 19512), (549, 19515), (550, 19524), (551, 19530), (554, 19545), (555, 19548), (561, 19569), (573, 19599), (576, 19611), (585, 19644), (610, 19755), (611, 19758), (621, 19785), (623, 19791), (636, 19845), (637, 19848), (674, 19935), (677, 19950), (681, 19962), (682, 19965), (697, 20031), (702, 20055), (705, 20076), (707, 20085), (719, 20127), (724, 20145), (725, 20148), (734, 20184), (737, 20202), (743, 20214), (745, 20223), (751, 20250), (776, 20319), (780, 20337), (784, 20346), (786, 20358), (797, 20394), (804, 20424), (809, 20445), (816, 20469), (823, 20505), (833, 20559), (849, 20619), (858, 20661), (880, 20739), (896, 20796), (900, 20820), (908, 20874), (912, 20922), (922, 20964), (925, 20988), (926, 20991),

Gene: Murai_59 Start: 36318, Stop: 38828, Start Num: 114

Candidate Starts for Murai_59:

(Start: 114 @36318 has 34 MA's), (128, 36351), (163, 36420), (165, 36423), (179, 36447), (196, 36471), (209, 36495), (222, 36528), (310, 36735), (315, 36747), (316, 36750), (368, 36897), (373, 36927), (380, 36951), (392, 36981), (393, 36984), (404, 37011), (416, 37035), (431, 37065), (468, 37122), (495, 37182), (498, 37194), (507, 37218), (508, 37221), (520, 37263), (554, 37359), (555, 37362), (627, 37617), (677, 37761), (691, 37821), (704, 37893), (705, 37896), (730, 37992), (780, 38166), (786, 38187), (812, 38280), (815, 38292), (833, 38382), (854, 38457), (879, 38502), (917, 38703), (924, 38757), (929, 38772),

Gene: Murica_25 Start: 22268, Stop: 24664, Start Num: 148

Candidate Starts for Murica_25:

(Start: 148 @22268 has 132 MA's), (248, 22445), (259, 22466), (342, 22613), (382, 22754), (391, 22787), (404, 22820), (420, 22856), (479, 22949), (501, 23009), (508, 23027), (552, 23159), (566, 23204), (598, 23336), (610, 23381), (630, 23441), (672, 23555), (677, 23576), (688, 23615), (691, 23636), (695, 23651), (732, 23801), (734, 23807), (737, 23825), (752, 23879), (780, 23963), (807, 24056), (871, 24302), (912, 24518), (926, 24602), (933, 24635),

Gene: Murphy_27 Start: 22263, Stop: 24659, Start Num: 148

Candidate Starts for Murphy_27:

(Start: 148 @22263 has 132 MA's), (248, 22440), (259, 22461), (342, 22608), (382, 22749), (391, 22782), (404, 22815), (420, 22851), (479, 22944), (501, 23004), (508, 23022), (552, 23154), (566, 23199), (598, 23331), (610, 23376), (630, 23436), (672, 23550), (677, 23571), (688, 23610), (691, 23631), (695, 23646), (732, 23796), (734, 23802), (737, 23820), (752, 23874), (780, 23958), (807, 24051), (871, 24297), (912, 24513), (926, 24597), (933, 24630),

Gene: Murucutumbu_27 Start: 20831, Stop: 23263, Start Num: 151

Candidate Starts for Murucutumbu_27:

(Start: 151 @20831 has 97 MA's), (214, 20930), (339, 21191), (346, 21212), (431, 21452), (439, 21482), (440, 21485), (473, 21554), (482, 21578), (498, 21623), (548, 21776), (561, 21833), (565, 21842), (574, 21878), (577, 21893), (619, 22073), (624, 22088), (641, 22157), (670, 22232), (682, 22274), (691, 22313), (692, 22319), (695, 22328), (715, 22409), (745, 22526), (755, 22568), (783, 22640), (785, 22649), (792, 22670), (813, 22763), (833, 22859), (894, 23087), (912, 23234),

Gene: Mutaforma13_18 Start: 17444, Stop: 19981, Start Num: 100

Candidate Starts for Mutaforma13_18:

(96, 17432), (Start: 100 @17444 has 238 MA's), (113, 17465), (Start: 125 @17486 has 1 MA's), (140, 17522), (142, 17525), (188, 17594), (194, 17603), (196, 17606), (204, 17624), (222, 17657), (233, 17672), (257, 17720), (303, 17825), (307, 17831), (308, 17834), (325, 17864), (329, 17876), (330, 17879), (362, 17981), (380, 18047), (392, 18092), (404, 18122), (407, 18128), (416, 18146), (428, 18170), (432, 18179), (456, 18212), (461, 18218), (488, 18269), (495, 18287), (498, 18299), (501, 18308), (507, 18323), (509, 18329), (548, 18437), (550, 18449), (551, 18455), (554, 18470), (555, 18473), (561, 18494), (573, 18524), (576, 18536), (585, 18569), (598, 18635), (610, 18680), (611, 18683), (621, 18710), (623, 18716), (636, 18770), (637, 18773), (652, 18800), (677, 18875), (681, 18887), (682, 18890), (697, 18956), (702, 18980), (707, 19010), (719, 19052), (724, 19070), (725, 19073), (734, 19109), (737, 19127), (745, 19148), (751, 19175), (776, 19244), (780, 19262), (784, 19271), (786, 19283), (797, 19319), (809, 19370), (814, 19388), (823, 19430), (833, 19484), (858, 19586), (896, 19721), (900, 19745), (908, 19799), (912, 19847), (922, 19889), (925, 19913), (926, 19916),

Gene: Mwanjiwa_18 Start: 17382, Stop: 19919, Start Num: 100

Candidate Starts for Mwanjiwa_18:

(Start: 100 @17382 has 238 MA's), (113, 17403), (Start: 125 @17424 has 1 MA's), (142, 17463), (188, 17532), (194, 17541), (196, 17544), (204, 17562), (222, 17595), (233, 17610), (307, 17769), (308, 17772), (330, 17817), (357, 17895), (362, 17919), (380, 17985), (392, 18030), (404, 18060), (407, 18066), (416, 18084), (428, 18108), (432, 18117), (456, 18150), (461, 18156), (488, 18207), (495, 18225), (498, 18237), (501, 18246), (507, 18261), (548, 18375), (550, 18387), (551, 18393), (554, 18408), (555, 18411), (561, 18432), (573, 18462), (576, 18474), (585, 18507), (598, 18573), (610, 18618), (611, 18621), (621, 18648), (636, 18708), (637, 18711), (677, 18813), (681, 18825), (682, 18828), (697, 18894), (701, 18915), (702, 18918), (705, 18939), (707, 18948), (724, 19008), (725, 19011), (734, 19047), (737, 19065), (743, 19077), (745, 19086), (751, 19113), (776, 19182), (780, 19200), (784, 19209), (786, 19221), (797, 19257), (804, 19287), (809, 19308), (816, 19332), (823, 19368), (833, 19422), (858, 19524), (880, 19602), (896, 19659), (900, 19683), (908, 19737), (912, 19785), (922, 19827), (925, 19851), (926, 19854),

Gene: Mynx_27 Start: 20895, Stop: 23327, Start Num: 151

Candidate Starts for Mynx_27:

(Start: 151 @20895 has 97 MA's), (214, 20994), (339, 21255), (346, 21276), (416, 21483), (431, 21516), (439, 21546), (473, 21618), (482, 21642), (498, 21687), (548, 21840), (556, 21885), (561, 21897), (565, 21906), (577, 21957), (619, 22137), (624, 22152), (641, 22221), (646, 22233), (670, 22296), (682, 22338), (691, 22377), (692, 22383), (695, 22392), (700, 22413), (715, 22473), (745, 22590), (755, 22632), (783, 22704), (785, 22713), (792, 22734), (808, 22806), (813, 22827), (833,

22923), (848, 22986), (894, 23151), (912, 23298),

Gene: Myrale_26 Start: 22154, Stop: 24550, Start Num: 148

Candidate Starts for Myrale_26:

(Start: 148 @22154 has 132 MA's), (248, 22331), (259, 22352), (342, 22499), (382, 22640), (391, 22673), (404, 22706), (420, 22742), (479, 22835), (501, 22895), (508, 22913), (538, 22994), (598, 23222), (610, 23267), (677, 23462), (679, 23468), (682, 23477), (691, 23522), (695, 23537), (734, 23693), (737, 23711), (740, 23720), (755, 23774), (780, 23849), (781, 23852), (832, 24062), (834, 24074), (871, 24188), (912, 24404), (926, 24488), (931, 24512), (933, 24521),

Gene: Nala_26 Start: 22310, Stop: 24706, Start Num: 148

Candidate Starts for Nala_26:

(Start: 148 @22310 has 132 MA's), (248, 22487), (259, 22508), (342, 22655), (382, 22796), (391, 22829), (404, 22862), (420, 22898), (479, 22991), (501, 23051), (508, 23069), (552, 23201), (566, 23246), (598, 23378), (610, 23423), (630, 23483), (672, 23597), (677, 23618), (688, 23657), (691, 23678), (695, 23693), (732, 23843), (734, 23849), (737, 23867), (752, 23921), (780, 24005), (807, 24098), (871, 24344), (912, 24560), (926, 24644), (933, 24677),

Gene: Nebkiss_22 Start: 19932, Stop: 22502, Start Num: 90

Candidate Starts for Nebkiss_22:

(Start: 90 @19932 has 2 MA's), (116, 19989), (133, 20022), (178, 20100), (180, 20103), (210, 20157), (218, 20169), (246, 20217), (266, 20262), (299, 20334), (308, 20355), (318, 20376), (329, 20397), (330, 20400), (345, 20445), (373, 20544), (389, 20589), (407, 20634), (432, 20685), (442, 20703), (501, 20808), (504, 20814), (507, 20823), (508, 20826), (517, 20853), (523, 20874), (538, 20907), (540, 20916), (548, 20937), (550, 20949), (554, 20970), (573, 21024), (576, 21036), (585, 21069), (601, 21144), (609, 21171), (643, 21294), (664, 21321), (669, 21345), (677, 21375), (685, 21399), (692, 21441), (695, 21450), (720, 21579), (727, 21606), (743, 21657), (777, 21768), (780, 21783), (851, 22074), (896, 22242), (900, 22266), (922, 22410), (926, 22437), (928, 22443), (929, 22446),

Gene: NelitzaMV_26 Start: 22353, Stop: 24749, Start Num: 148

Candidate Starts for NelitzaMV_26:

(Start: 148 @22353 has 132 MA's), (248, 22530), (259, 22551), (342, 22698), (382, 22839), (391, 22872), (404, 22905), (420, 22941), (479, 23034), (501, 23094), (508, 23112), (556, 23268), (566, 23289), (594, 23409), (598, 23421), (610, 23466), (677, 23661), (682, 23676), (691, 23721), (695, 23736), (734, 23892), (737, 23910), (740, 23919), (780, 24048), (781, 24051), (832, 24261), (834, 24273), (871, 24387), (912, 24603), (926, 24687), (931, 24711), (933, 24720),

Gene: NewHope4_19 Start: 17446, Stop: 19983, Start Num: 100

Candidate Starts for NewHope4_19:

(Start: 100 @17446 has 238 MA's), (113, 17467), (Start: 125 @17488 has 1 MA's), (140, 17524), (142, 17527), (188, 17596), (194, 17605), (196, 17608), (204, 17626), (222, 17659), (233, 17674), (257, 17722), (303, 17827), (307, 17833), (308, 17836), (329, 17878), (330, 17881), (362, 17983), (380, 18049), (392, 18094), (404, 18124), (407, 18130), (416, 18148), (428, 18172), (432, 18181), (456, 18214), (461, 18220), (488, 18271), (495, 18289), (498, 18301), (501, 18310), (507, 18325), (509, 18331), (548, 18439), (550, 18451), (551, 18457), (554, 18472), (555, 18475), (561, 18496), (573, 18526), (576, 18538), (585, 18571), (598, 18637), (610, 18682), (611, 18685), (621, 18712), (623, 18718), (636, 18772), (637, 18775), (674, 18862), (677, 18877), (681, 18889), (682, 18892), (697, 18958), (705, 19003), (707, 19012), (724, 19072), (725, 19075), (734, 19111), (737, 19129), (743, 19141), (745, 19150), (751, 19177), (776, 19246), (780, 19264), (784, 19273), (786, 19285), (797, 19321), (804, 19351), (809, 19372), (816, 19396), (823, 19432), (833, 19486), (849, 19546), (858, 19588), (880, 19666), (896, 19723), (900, 19747), (908, 19801), (912, 19849), (922, 19891), (925, 19915), (926, 19918),

Gene: Nibb_26 Start: 20138, Stop: 22591, Start Num: 151

Candidate Starts for Nibb_26:

(Start: 151 @20138 has 97 MA's), (247, 20309), (274, 20366), (281, 20378), (337, 20495), (346, 20519), (356, 20546), (390, 20675), (407, 20708), (448, 20819), (452, 20828), (453, 20837), (460, 20858), (482, 20906), (517, 21008), (562, 21167), (582, 21248), (605, 21350), (666, 21542), (670, 21563), (682, 21605), (691, 21650), (695, 21665), (739, 21848), (755, 21905), (768, 21938), (792, 22007), (797, 22031), (810, 22088), (814, 22103), (830, 22181), (869, 22328), (874, 22337),

Gene: Nibley_31 Start: 26436, Stop: 28931, Start Num: 100

Candidate Starts for Nibley_31:

(Start: 100 @26436 has 238 MA's), (204, 26631), (222, 26667), (233, 26682), (285, 26769), (290, 26784), (308, 26820), (309, 26826), (330, 26859), (335, 26871), (389, 27042), (392, 27051), (404, 27075), (431, 27129), (456, 27165), (461, 27171), (479, 27201), (490, 27231), (498, 27252), (501, 27261), (507, 27276), (531, 27345), (555, 27426), (556, 27435), (566, 27456), (567, 27459), (576, 27489), (586, 27525), (594, 27576), (596, 27585), (598, 27588), (606, 27615), (609, 27624), (614, 27645), (636, 27723), (637, 27726), (669, 27798), (679, 27834), (681, 27840), (690, 27882), (691, 27888), (701, 27930), (702, 27933), (705, 27954), (706, 27960), (707, 27963), (716, 27993), (750, 28134), (752, 28143), (755, 28152), (767, 28185), (776, 28209), (777, 28212), (780, 28227), (786, 28248), (797, 28284), (798, 28290), (799, 28296), (805, 28317), (812, 28344), (840, 28479), (857, 28551), (860, 28557), (871, 28575), (896, 28674), (912, 28791), (927, 28872), (929, 28875), (933, 28902),

Gene: Nichirin_18 Start: 17599, Stop: 20136, Start Num: 100

Candidate Starts for Nichirin_18:

(Start: 100 @17599 has 238 MA's), (113, 17620), (Start: 125 @17641 has 1 MA's), (142, 17680), (188, 17749), (194, 17758), (196, 17761), (204, 17779), (233, 17827), (307, 17986), (308, 17989), (330, 18034), (357, 18112), (361, 18133), (362, 18136), (380, 18202), (404, 18277), (407, 18283), (428, 18325), (431, 18331), (432, 18334), (456, 18367), (461, 18373), (479, 18403), (488, 18424), (498, 18454), (501, 18463), (540, 18571), (545, 18583), (548, 18592), (549, 18595), (550, 18604), (551, 18610), (554, 18625), (555, 18628), (561, 18649), (576, 18691), (585, 18724), (621, 18865), (623, 18871), (636, 18925), (637, 18928), (652, 18955), (677, 19030), (681, 19042), (682, 19045), (697, 19111), (701, 19132), (702, 19135), (705, 19156), (719, 19207), (724, 19225), (725, 19228), (732, 19258), (737, 19282), (745, 19303), (751, 19330), (752, 19336), (776, 19399), (780, 19417), (784, 19426), (786, 19438), (797, 19474), (804, 19504), (809, 19525), (849, 19699), (858, 19741), (880, 19819), (896, 19876), (900, 19900), (901, 19915), (908, 19954), (912, 20002), (922, 20044), (925, 20068), (926, 20071),

Gene: NiebruSaylor_57 Start: 35525, Stop: 38035, Start Num: 114

Candidate Starts for NiebruSaylor_57:

(Start: 114 @35525 has 34 MA's), (128, 35558), (163, 35627), (165, 35630), (179, 35654), (196, 35678), (209, 35702), (222, 35735), (310, 35942), (315, 35954), (316, 35957), (368, 36104), (373, 36134), (380, 36158), (392, 36188), (393, 36191), (404, 36218), (416, 36242), (431, 36272), (468, 36329), (481, 36353), (495, 36389), (498, 36401), (507, 36425), (508, 36428), (520, 36470), (554, 36566), (555, 36569), (627, 36824), (677, 36968), (691, 37028), (704, 37100), (705, 37103), (730, 37199), (780, 37373), (786, 37394), (812, 37487), (815, 37499), (833, 37589), (854, 37664), (879, 37709), (917, 37910), (924, 37964), (929, 37979),

Gene: Nilo_31 Start: 24634, Stop: 28134, Start Num: 2

Candidate Starts for Nilo_31:

(Start: 2 @24634 has 9 MA's), (4, 24646), (Start: 5 @24658 has 1 MA's), (8, 24841), (12, 24922), (18, 25021), (20, 25045), (21, 25063), (39, 25222), (41, 25255), (52, 25303), (63, 25342), (92, 25468), (Start: 97 @25477 has 9 MA's), (183, 25663), (278, 25864), (345, 26041), (373, 26140), (382, 26173), (396, 26218), (401, 26230), (419, 26272), (427, 26284), (467, 26350), (501, 26434), (506, 26449),

(516, 26479), (551, 26584), (568, 26635), (580, 26680), (590, 26725), (600, 26770), (606, 26791), (610, 26809), (611, 26812), (613, 26818), (614, 26821), (663, 26959), (675, 27007), (676, 27013), (695, 27094), (716, 27187), (729, 27247), (732, 27256), (734, 27262), (738, 27283), (789, 27448), (807, 27514), (809, 27526), (814, 27544), (816, 27550), (875, 27784), (882, 27823), (895, 27868), (899, 27898), (911, 27991), (918, 28018),

Gene: Nimbo_18 Start: 17400, Stop: 19937, Start Num: 100

Candidate Starts for Nimbo_18:

(Start: 100 @17400 has 238 MA's), (113, 17421), (Start: 125 @17442 has 1 MA's), (142, 17481), (188, 17550), (194, 17559), (196, 17562), (204, 17580), (233, 17628), (257, 17676), (307, 17787), (308, 17790), (330, 17835), (357, 17913), (362, 17937), (380, 18003), (404, 18078), (407, 18084), (416, 18102), (428, 18126), (432, 18135), (456, 18168), (461, 18174), (479, 18204), (488, 18225), (498, 18255), (501, 18264), (540, 18372), (545, 18384), (548, 18393), (549, 18396), (551, 18411), (554, 18426), (555, 18429), (561, 18450), (576, 18492), (585, 18525), (610, 18636), (611, 18639), (621, 18666), (623, 18672), (636, 18726), (637, 18729), (652, 18756), (677, 18831), (681, 18843), (682, 18846), (697, 18912), (701, 18933), (702, 18936), (705, 18957), (707, 18966), (719, 19008), (724, 19026), (725, 19029), (732, 19059), (737, 19083), (743, 19095), (745, 19104), (776, 19200), (780, 19218), (784, 19227), (786, 19239), (797, 19275), (804, 19305), (807, 19314), (809, 19326), (823, 19386), (833, 19440), (849, 19500), (858, 19542), (896, 19677), (900, 19701), (908, 19755), (912, 19803), (922, 19845), (925, 19869), (926, 19872),

Gene: Nimrod_26 Start: 22529, Stop: 24925, Start Num: 148

Candidate Starts for Nimrod_26:

(Start: 148 @22529 has 132 MA's), (248, 22706), (259, 22727), (342, 22874), (382, 23015), (391, 23048), (404, 23081), (420, 23117), (479, 23210), (501, 23270), (508, 23288), (552, 23420), (566, 23465), (598, 23597), (610, 23642), (630, 23702), (672, 23816), (677, 23837), (688, 23876), (691, 23897), (695, 23912), (732, 24062), (734, 24068), (737, 24086), (752, 24140), (780, 24224), (807, 24317), (871, 24563), (912, 24779), (926, 24863), (933, 24896),

Gene: Nish23_30 Start: 25681, Stop: 28524, Start Num: 36

Candidate Starts for Nish23_30:

(Start: 36 @25681 has 10 MA's), (65, 25813), (67, 25825), (68, 25834), (83, 25903), (85, 25909), (124, 25969), (131, 25990), (154, 26038), (173, 26080), (190, 26104), (208, 26137), (227, 26173), (234, 26185), (280, 26278), (303, 26335), (323, 26374), (366, 26500), (382, 26569), (390, 26599), (407, 26641), (432, 26692), (484, 26782), (495, 26800), (520, 26881), (538, 26920), (545, 26941), (585, 27079), (591, 27118), (609, 27181), (637, 27283), (705, 27508), (805, 27871), (812, 27898), (866, 28141), (877, 28174), (882, 28198), (906, 28318), (919, 28396), (935, 28483), (938, 28498), (939, 28504),

Gene: Nitzel_19 Start: 18136, Stop: 20673, Start Num: 100

Candidate Starts for Nitzel_19:

(Start: 100 @18136 has 238 MA's), (113, 18157), (Start: 125 @18178 has 1 MA's), (142, 18217), (188, 18286), (194, 18295), (196, 18298), (204, 18316), (222, 18349), (233, 18364), (257, 18412), (303, 18517), (307, 18523), (308, 18526), (329, 18568), (330, 18571), (362, 18673), (380, 18739), (392, 18784), (404, 18814), (407, 18820), (416, 18838), (428, 18862), (432, 18871), (456, 18904), (461, 18910), (488, 18961), (495, 18979), (498, 18991), (501, 19000), (507, 19015), (509, 19021), (548, 19129), (550, 19141), (551, 19147), (554, 19162), (555, 19165), (561, 19186), (573, 19216), (576, 19228), (585, 19261), (598, 19327), (610, 19372), (611, 19375), (621, 19402), (623, 19408), (636, 19462), (637, 19465), (652, 19492), (677, 19567), (681, 19579), (682, 19582), (697, 19648), (702, 19672), (707, 19702), (719, 19744), (724, 19762), (725, 19765), (734, 19801), (737, 19819), (743, 19831), (745, 19840), (751, 19867), (776, 19936), (780, 19954), (784, 19963), (786, 19975), (797, 20011), (809, 20062), (814, 20080), (823, 20122), (833, 20176), (849, 20236), (858, 20278), (896, 20413), (900, 20437), (908, 20491), (912, 20539), (922, 20581), (925, 20605), (926, 20608),

Gene: Nivrat_18 Start: 17405, Stop: 19930, Start Num: 100

Candidate Starts for Nivrat_18:

(Start: 100 @17405 has 238 MA's), (142, 17486), (188, 17555), (194, 17564), (196, 17567), (204, 17585), (233, 17633), (256, 17678), (307, 17792), (308, 17795), (314, 17807), (326, 17828), (329, 17837), (330, 17840), (346, 17888), (357, 17918), (373, 17984), (382, 18017), (392, 18053), (402, 18077), (431, 18137), (432, 18140), (442, 18158), (486, 18221), (488, 18224), (495, 18242), (501, 18263), (508, 18281), (517, 18308), (523, 18329), (538, 18362), (551, 18410), (552, 18413), (554, 18425), (555, 18428), (564, 18455), (573, 18479), (585, 18524), (614, 18650), (622, 18674), (665, 18782), (677, 18833), (681, 18845), (682, 18848), (691, 18893), (695, 18908), (701, 18935), (705, 18959), (719, 19010), (724, 19028), (725, 19031), (726, 19043), (743, 19097), (752, 19139), (798, 19283), (812, 19337), (813, 19343), (814, 19346), (820, 19382), (822, 19385), (825, 19394), (828, 19421), (885, 19622), (912, 19793), (921, 19832), (928, 19871), (929, 19874),

Gene: NoShow_21 Start: 18882, Stop: 21146, Start Num: 199

Candidate Starts for NoShow_21:

(Start: 199 @18882 has 1 MA's), (258, 19005), (260, 19014), (298, 19098), (308, 19122), (311, 19131), (346, 19209), (375, 19311), (407, 19398), (459, 19488), (485, 19545), (492, 19563), (495, 19569), (499, 19584), (505, 19599), (508, 19608), (582, 19800), (606, 19908), (664, 20088), (668, 20109), (671, 20118), (686, 20175), (689, 20187), (695, 20217), (707, 20271), (719, 20304), (727, 20346), (733, 20364), (763, 20469), (776, 20499), (812, 20640), (815, 20652), (882, 20943), (912, 21126),

Gene: NoSleep_27 Start: 22023, Stop: 24419, Start Num: 148

Candidate Starts for NoSleep_27:

(Start: 148 @22023 has 132 MA's), (248, 22200), (259, 22221), (342, 22368), (391, 22542), (404, 22575), (420, 22611), (479, 22704), (501, 22764), (508, 22782), (552, 22914), (566, 22959), (598, 23091), (610, 23136), (630, 23196), (672, 23310), (677, 23331), (688, 23370), (691, 23391), (695, 23406), (732, 23556), (734, 23562), (737, 23580), (752, 23634), (780, 23718), (807, 23811), (871, 24057), (912, 24273), (926, 24357), (933, 24390),

Gene: NonchalantPear_26 Start: 21979, Stop: 24375, Start Num: 148

Candidate Starts for NonchalantPear_26:

(Start: 148 @21979 has 132 MA's), (248, 22156), (259, 22177), (342, 22324), (382, 22465), (391, 22498), (404, 22531), (420, 22567), (479, 22660), (501, 22720), (508, 22738), (552, 22870), (566, 22915), (598, 23047), (610, 23092), (630, 23152), (672, 23266), (677, 23287), (688, 23326), (691, 23347), (695, 23362), (732, 23512), (734, 23518), (737, 23536), (752, 23590), (780, 23674), (807, 23767), (871, 24013), (912, 24229), (926, 24313), (933, 24346),

Gene: NormanBulbieJr_18 Start: 17393, Stop: 19945, Start Num: 100

Candidate Starts for NormanBulbieJr_18:

(Start: 100 @17393 has 238 MA's), (142, 17474), (188, 17543), (194, 17552), (196, 17555), (204, 17573), (233, 17621), (256, 17666), (307, 17780), (308, 17783), (314, 17795), (326, 17816), (329, 17825), (330, 17828), (346, 17876), (357, 17906), (373, 17972), (382, 18005), (392, 18041), (402, 18065), (431, 18125), (432, 18128), (442, 18146), (486, 18209), (488, 18212), (495, 18230), (501, 18251), (508, 18269), (517, 18296), (523, 18317), (538, 18350), (550, 18392), (551, 18398), (552, 18401), (555, 18416), (564, 18443), (566, 18446), (573, 18467), (576, 18479), (585, 18512), (606, 18605), (636, 18713), (643, 18737), (652, 18743), (663, 18761), (664, 18764), (669, 18788), (677, 18818), (685, 18842), (691, 18878), (692, 18884), (695, 18893), (701, 18920), (713, 18983), (719, 19007), (720, 19022), (732, 19064), (746, 19115), (777, 19211), (780, 19226), (784, 19235), (791, 19259), (807, 19322), (816, 19358), (892, 19664), (900, 19709), (912, 19811),

Gene: Nova_30 Start: 24743, Stop: 27013, Start Num: 291

Candidate Starts for Nova_30:

(Start: 291 @24743 has 22 MA's), (340, 24878), (344, 24887), (392, 25061), (394, 25067), (399, 25079), (465, 25232), (474, 25247), (482, 25262), (518, 25376), (594, 25643), (595, 25649), (608, 25694), (631, 25781), (694, 25982), (696, 25988), (705, 26036), (710, 26066), (717, 26090), (764, 26279), (775, 26306), (789, 26354), (806, 26426), (816, 26465), (818, 26486), (821, 26501), (825, 26519), (829, 26549), (907, 26834), (912, 26876), (937, 27002),

Gene: NovoPizza_23 Start: 21830, Stop: 24478, Start Num: 66

Candidate Starts for NovoPizza_23:

(Start: 66 @21830 has 1 MA's), (88, 21926), (195, 22154), (211, 22187), (223, 22217), (229, 22226), (230, 22229), (259, 22304), (289, 22373), (297, 22388), (307, 22412), (334, 22463), (346, 22502), (369, 22571), (371, 22583), (379, 22616), (434, 22736), (495, 22850), (498, 22862), (517, 22916), (535, 22967), (548, 23000), (582, 23126), (594, 23186), (605, 23228), (614, 23267), (636, 23348), (640, 23363), (647, 23378), (668, 23435), (682, 23483), (687, 23504), (695, 23543), (707, 23603), (716, 23627), (719, 23636), (722, 23654), (724, 23660), (726, 23675), (727, 23678), (735, 23714), (772, 23810), (784, 23852), (806, 23942), (807, 23945), (814, 23975), (838, 24098), (844, 24119), (883, 24272), (915, 24470),

Gene: Oaker_29 Start: 25939, Stop: 28782, Start Num: 36

Candidate Starts for Oaker_29:

(Start: 36 @25939 has 10 MA's), (65, 26071), (67, 26083), (68, 26092), (83, 26161), (85, 26167), (124, 26227), (131, 26248), (154, 26296), (173, 26338), (190, 26362), (208, 26395), (227, 26431), (234, 26443), (280, 26536), (303, 26593), (323, 26632), (382, 26827), (390, 26857), (407, 26899), (432, 26950), (484, 27040), (495, 27058), (520, 27139), (538, 27178), (545, 27199), (585, 27337), (591, 27376), (609, 27439), (637, 27541), (705, 27766), (805, 28129), (812, 28156), (866, 28399), (877, 28432), (882, 28456), (906, 28576), (919, 28654), (935, 28741), (938, 28756), (939, 28762),

Gene: Ochi17_18 Start: 17634, Stop: 20171, Start Num: 100

Candidate Starts for Ochi17_18:

(Start: 100 @17634 has 238 MA's), (113, 17655), (Start: 125 @17676 has 1 MA's), (142, 17715), (188, 17784), (194, 17793), (196, 17796), (204, 17814), (233, 17862), (307, 18021), (308, 18024), (329, 18066), (330, 18069), (357, 18147), (361, 18168), (362, 18171), (380, 18237), (382, 18246), (392, 18282), (404, 18312), (407, 18318), (428, 18360), (431, 18366), (432, 18369), (456, 18402), (461, 18408), (479, 18438), (488, 18459), (498, 18489), (501, 18498), (540, 18606), (545, 18618), (548, 18627), (549, 18630), (550, 18639), (551, 18645), (554, 18660), (555, 18663), (561, 18684), (576, 18726), (585, 18759), (621, 18900), (623, 18906), (636, 18960), (637, 18963), (652, 18990), (677, 19065), (681, 19077), (682, 19080), (697, 19146), (701, 19167), (702, 19170), (705, 19191), (719, 19242), (724, 19260), (725, 19263), (732, 19293), (737, 19317), (743, 19329), (776, 19434), (780, 19452), (784, 19461), (786, 19473), (797, 19509), (804, 19539), (809, 19560), (816, 19584), (823, 19620), (849, 19734), (858, 19776), (880, 19854), (896, 19911), (900, 19935), (908, 19989), (912, 20037), (922, 20079), (925, 20103), (926, 20106),

Gene: OfUltron_18 Start: 17634, Stop: 20171, Start Num: 100

Candidate Starts for OfUltron_18:

(Start: 100 @17634 has 238 MA's), (113, 17655), (Start: 125 @17676 has 1 MA's), (142, 17715), (188, 17784), (194, 17793), (196, 17796), (204, 17814), (233, 17862), (307, 18021), (308, 18024), (329, 18066), (330, 18069), (357, 18147), (361, 18168), (362, 18171), (380, 18237), (382, 18246), (392, 18282), (404, 18312), (407, 18318), (428, 18360), (431, 18366), (432, 18369), (456, 18402), (461, 18408), (479, 18438), (488, 18459), (498, 18489), (501, 18498), (540, 18606), (545, 18618), (548, 18627), (549, 18630), (550, 18639), (551, 18645), (554, 18660), (555, 18663), (561, 18684), (576, 18726), (585, 18759), (621, 18900), (623, 18906), (636, 18960), (637, 18963), (652, 18990), (677, 19065), (681, 19077), (682, 19080), (697, 19146), (701, 19167), (702, 19170), (705, 19191), (719, 19242), (724, 19260), (725, 19263), (732, 19293), (737, 19317), (743, 19329), (776, 19434), (780, 19452), (784, 19461), (786, 19473), (797, 19509), (804, 19539), (809, 19560), (816, 19584), (823,

19620), (849, 19734), (858, 19776), (880, 19854), (896, 19911), (900, 19935), (908, 19989), (912, 20037), (922, 20079), (925, 20103), (926, 20106),

Gene: Ogoopogo_21 Start: 17660, Stop: 20149, Start Num: 100

Candidate Starts for Ogoopogo_21:

(Start: 100 @17660 has 238 MA's), (113, 17681), (Start: 125 @17702 has 1 MA's), (143, 17741), (188, 17810), (194, 17819), (196, 17822), (204, 17840), (233, 17888), (257, 17936), (290, 17990), (308, 18026), (309, 18032), (311, 18035), (327, 18053), (335, 18077), (345, 18101), (366, 18164), (389, 18248), (392, 18257), (404, 18281), (416, 18305), (428, 18329), (431, 18335), (442, 18356), (461, 18377), (479, 18407), (490, 18437), (498, 18458), (531, 18551), (538, 18566), (540, 18575), (548, 18596), (549, 18599), (573, 18683), (574, 18686), (576, 18695), (583, 18722), (586, 18731), (592, 18770), (596, 18791), (598, 18794), (609, 18830), (614, 18851), (636, 18929), (637, 18932), (666, 18986), (681, 19046), (702, 19139), (704, 19157), (705, 19160), (716, 19196), (729, 19250), (732, 19259), (750, 19337), (755, 19355), (769, 19391), (770, 19394), (776, 19412), (777, 19415), (780, 19430), (786, 19451), (797, 19487), (799, 19499), (816, 19562), (823, 19595), (840, 19682), (852, 19730), (857, 19754), (865, 19781), (871, 19790), (879, 19829), (890, 19868), (896, 19892), (899, 19913), (912, 20009), (918, 20030), (929, 20093), (933, 20120), (936, 20129),

Gene: OhShagHennessy_20 Start: 18962, Stop: 21643, Start Num: 79

Candidate Starts for OhShagHennessy_20:

(Start: 79 @18962 has 19 MA's), (81, 18968), (164, 19145), (182, 19175), (215, 19238), (249, 19313), (304, 19427), (306, 19433), (333, 19499), (354, 19562), (363, 19595), (365, 19598), (372, 19622), (378, 19646), (380, 19652), (381, 19658), (395, 19706), (404, 19727), (412, 19742), (421, 19763), (437, 19802), (442, 19814), (450, 19832), (488, 19907), (497, 19937), (506, 19961), (507, 19964), (525, 20009), (542, 20060), (549, 20078), (561, 20132), (579, 20204), (583, 20216), (586, 20225), (589, 20243), (592, 20267), (599, 20297), (607, 20333), (617, 20366), (618, 20372), (635, 20438), (662, 20504), (673, 20543), (691, 20624), (699, 20660), (701, 20666), (726, 20771), (729, 20780), (734, 20795), (737, 20813), (750, 20855), (782, 20951), (797, 21011), (798, 21017), (801, 21029), (826, 21140), (830, 21170), (831, 21176), (853, 21272), (855, 21278), (860, 21302), (863, 21308), (864, 21314), (877, 21359), (878, 21368), (881, 21377), (893, 21416), (898, 21452), (900, 21461), (901, 21476), (913, 21572), (921, 21623), (922, 21629),

Gene: Oksu_19 Start: 17479, Stop: 20016, Start Num: 100

Candidate Starts for Oksu_19:

(Start: 100 @17479 has 238 MA's), (113, 17500), (Start: 125 @17521 has 1 MA's), (142, 17560), (188, 17629), (194, 17638), (196, 17641), (204, 17659), (233, 17707), (303, 17860), (308, 17869), (330, 17914), (361, 18013), (362, 18016), (380, 18082), (404, 18157), (407, 18163), (416, 18181), (428, 18205), (431, 18211), (432, 18214), (456, 18247), (461, 18253), (479, 18283), (488, 18304), (498, 18334), (501, 18343), (507, 18358), (508, 18361), (548, 18472), (549, 18475), (550, 18484), (551, 18490), (554, 18505), (555, 18508), (561, 18529), (576, 18571), (585, 18604), (621, 18745), (623, 18751), (636, 18805), (637, 18808), (652, 18835), (677, 18910), (681, 18922), (682, 18925), (697, 18991), (701, 19012), (702, 19015), (705, 19036), (719, 19087), (724, 19105), (725, 19108), (732, 19138), (737, 19162), (743, 19174), (776, 19279), (780, 19297), (784, 19306), (786, 19318), (797, 19354), (804, 19384), (809, 19405), (816, 19429), (823, 19465), (849, 19579), (858, 19621), (880, 19699), (896, 19756), (900, 19780), (908, 19834), (912, 19882), (922, 19924), (925, 19948), (926, 19951),

Gene: OldBen_18 Start: 17370, Stop: 19907, Start Num: 100

Candidate Starts for OldBen_18:

(96, 17358), (Start: 100 @17370 has 238 MA's), (113, 17391), (Start: 125 @17412 has 1 MA's), (142, 17451), (188, 17520), (194, 17529), (196, 17532), (204, 17550), (233, 17598), (257, 17646), (307, 17757), (308, 17760), (330, 17805), (357, 17883), (362, 17907), (380, 17973), (392, 18018), (404, 18048), (407, 18054), (416, 18072), (428, 18096), (432, 18105), (456, 18138), (461, 18144), (479,

18174), (495, 18213), (498, 18225), (501, 18234), (507, 18249), (508, 18252), (548, 18363), (549, 18366), (550, 18375), (551, 18381), (554, 18396), (555, 18399), (561, 18420), (573, 18450), (576, 18462), (585, 18495), (610, 18606), (611, 18609), (621, 18636), (623, 18642), (636, 18696), (637, 18699), (677, 18801), (681, 18813), (682, 18816), (697, 18882), (702, 18906), (705, 18927), (707, 18936), (724, 18996), (725, 18999), (734, 19035), (737, 19053), (745, 19074), (751, 19101), (776, 19170), (780, 19188), (784, 19197), (786, 19209), (797, 19245), (809, 19296), (814, 19314), (823, 19356), (833, 19410), (858, 19512), (896, 19647), (900, 19671), (908, 19725), (918, 19794), (925, 19839), (926, 19842),

Gene: OlympiaSaint_18 Start: 17593, Stop: 20145, Start Num: 100

Candidate Starts for OlympiaSaint_18:

(Start: 100 @17593 has 238 MA's), (142, 17674), (188, 17743), (194, 17752), (196, 17755), (204, 17773), (233, 17821), (256, 17866), (307, 17980), (308, 17983), (314, 17995), (326, 18016), (329, 18025), (330, 18028), (346, 18076), (357, 18106), (373, 18172), (382, 18205), (392, 18241), (402, 18265), (431, 18325), (432, 18328), (442, 18346), (486, 18409), (488, 18412), (495, 18430), (501, 18451), (508, 18469), (517, 18496), (523, 18517), (538, 18550), (550, 18592), (551, 18598), (552, 18601), (555, 18616), (564, 18643), (566, 18646), (573, 18667), (576, 18679), (585, 18712), (606, 18805), (636, 18913), (643, 18937), (652, 18943), (663, 18961), (664, 18964), (669, 18988), (677, 19018), (685, 19042), (691, 19078), (692, 19084), (695, 19093), (701, 19120), (713, 19183), (719, 19207), (720, 19222), (732, 19264), (746, 19315), (777, 19411), (780, 19426), (784, 19435), (791, 19459), (807, 19522), (816, 19558), (892, 19864), (900, 19909), (912, 20011),

Gene: Omega_38 Start: 31431, Stop: 33986, Start Num: 100

Candidate Starts for Omega_38:

(Start: 100 @31431 has 238 MA's), (204, 31626), (222, 31662), (233, 31677), (257, 31725), (307, 31836), (308, 31839), (325, 31869), (330, 31884), (357, 31962), (362, 31986), (380, 32052), (392, 32097), (404, 32127), (407, 32133), (416, 32151), (428, 32175), (432, 32184), (456, 32217), (461, 32223), (479, 32253), (495, 32292), (498, 32304), (501, 32313), (507, 32328), (508, 32331), (548, 32442), (549, 32445), (550, 32454), (551, 32460), (554, 32475), (555, 32478), (561, 32499), (573, 32529), (576, 32541), (585, 32574), (598, 32640), (610, 32685), (611, 32688), (621, 32715), (623, 32721), (636, 32775), (637, 32778), (674, 32865), (677, 32880), (681, 32892), (682, 32895), (697, 32961), (705, 33006), (707, 33015), (724, 33075), (725, 33078), (734, 33114), (737, 33132), (743, 33144), (745, 33153), (751, 33180), (776, 33249), (780, 33267), (784, 33276), (786, 33288), (797, 33324), (804, 33354), (809, 33375), (816, 33399), (823, 33435), (833, 33489), (849, 33549), (858, 33591), (896, 33726), (900, 33750), (908, 33804), (912, 33852), (922, 33894), (925, 33918), (926, 33921),

Gene: Opia_32 Start: 29961, Stop: 32681, Start Num: 75

Candidate Starts for Opia_32:

(Start: 75 @29961 has 36 MA's), (94, 30015), (117, 30054), (138, 30099), (149, 30123), (152, 30126), (166, 30159), (225, 30267), (237, 30288), (238, 30291), (261, 30345), (288, 30405), (299, 30429), (313, 30465), (331, 30513), (336, 30534), (351, 30573), (362, 30612), (369, 30627), (381, 30681), (385, 30693), (392, 30717), (402, 30741), (408, 30753), (415, 30768), (422, 30783), (438, 30825), (446, 30843), (458, 30882), (470, 30906), (539, 31077), (556, 31155), (575, 31215), (583, 31251), (584, 31254), (599, 31332), (607, 31368), (613, 31392), (620, 31413), (673, 31584), (675, 31590), (699, 31701), (704, 31728), (722, 31791), (724, 31797), (726, 31812), (737, 31854), (765, 31941), (776, 31968), (784, 31998), (788, 32016), (795, 32037), (796, 32046), (797, 32052), (798, 32058), (801, 32070), (824, 32175), (827, 32193), (833, 32226), (853, 32313), (860, 32343), (863, 32349), (878, 32409), (900, 32502), (901, 32517), (908, 32559), (923, 32673),

Gene: Optimus_37 Start: 30775, Stop: 33330, Start Num: 100

Candidate Starts for Optimus_37:

(81, 30718), (Start: 100 @30775 has 238 MA's), (204, 30970), (222, 31006), (233, 31021), (257, 31069), (303, 31174), (308, 31183), (330, 31228), (361, 31327), (362, 31330), (380, 31396), (404, 31471), (407, 31477), (416, 31495), (428, 31519), (432, 31528), (456, 31561), (461, 31567), (479, 31597), (495, 31636), (498, 31648), (501, 31657), (548, 31786), (549, 31789), (550, 31798), (551, 31804), (554, 31819), (555, 31822), (561, 31843), (573, 31873), (576, 31885), (585, 31918), (610, 32029), (611, 32032), (621, 32059), (623, 32065), (636, 32119), (637, 32122), (677, 32224), (681, 32236), (682, 32239), (697, 32305), (702, 32329), (705, 32350), (719, 32401), (724, 32419), (725, 32422), (732, 32452), (737, 32476), (743, 32488), (745, 32497), (776, 32593), (780, 32611), (784, 32620), (786, 32632), (804, 32698), (807, 32707), (809, 32719), (823, 32779), (858, 32935), (896, 33070), (900, 33094), (908, 33148), (918, 33217), (925, 33262), (926, 33265),

Gene: OrionPax_27 Start: 22029, Stop: 24425, Start Num: 148

Candidate Starts for OrionPax_27:

(Start: 148 @22029 has 132 MA's), (248, 22206), (259, 22227), (342, 22374), (391, 22548), (404, 22581), (420, 22617), (479, 22710), (501, 22770), (508, 22788), (552, 22920), (566, 22965), (598, 23097), (610, 23142), (630, 23202), (672, 23316), (677, 23337), (688, 23376), (691, 23397), (695, 23412), (732, 23562), (734, 23568), (737, 23586), (752, 23640), (780, 23724), (807, 23817), (871, 24063), (912, 24279), (926, 24363), (933, 24396),

Gene: Oscar_26 Start: 20113, Stop: 22572, Start Num: 151

Candidate Starts for Oscar_26:

(Start: 151 @20113 has 97 MA's), (171, 20161), (247, 20284), (274, 20341), (281, 20353), (330, 20446), (337, 20470), (356, 20521), (407, 20683), (448, 20794), (460, 20833), (473, 20857), (517, 20980), (540, 21052), (562, 21139), (578, 21205), (582, 21220), (605, 21322), (619, 21376), (634, 21436), (666, 21514), (667, 21526), (670, 21535), (682, 21577), (691, 21622), (695, 21637), (718, 21724), (723, 21748), (739, 21820), (755, 21877), (792, 21988), (797, 22012), (802, 22033), (814, 22084), (842, 22213), (874, 22318), (912, 22543),

Gene: Ovechkin_18 Start: 17427, Stop: 19964, Start Num: 100

Candidate Starts for Ovechkin_18:

(Start: 100 @17427 has 238 MA's), (113, 17448), (Start: 125 @17469 has 1 MA's), (140, 17505), (142, 17508), (188, 17577), (194, 17586), (196, 17589), (204, 17607), (222, 17640), (233, 17655), (257, 17703), (307, 17814), (308, 17817), (325, 17847), (329, 17859), (330, 17862), (357, 17940), (362, 17964), (380, 18030), (392, 18075), (404, 18105), (407, 18111), (416, 18129), (428, 18153), (432, 18162), (456, 18195), (461, 18201), (479, 18231), (495, 18270), (498, 18282), (501, 18291), (507, 18306), (508, 18309), (548, 18420), (549, 18423), (550, 18432), (551, 18438), (554, 18453), (555, 18456), (561, 18477), (573, 18507), (576, 18519), (585, 18552), (610, 18663), (611, 18666), (621, 18693), (623, 18699), (636, 18753), (637, 18756), (677, 18858), (681, 18870), (682, 18873), (697, 18939), (702, 18963), (705, 18984), (707, 18993), (724, 19053), (725, 19056), (734, 19092), (737, 19110), (743, 19122), (745, 19131), (751, 19158), (776, 19227), (780, 19245), (784, 19254), (786, 19266), (797, 19302), (804, 19332), (809, 19353), (816, 19377), (823, 19413), (833, 19467), (849, 19527), (858, 19569), (880, 19647), (896, 19704), (900, 19728), (908, 19782), (912, 19830), (922, 19872), (925, 19896), (926, 19899),

Gene: OwlsT2W_20 Start: 17765, Stop: 20317, Start Num: 100

Candidate Starts for OwlsT2W_20:

(Start: 100 @17765 has 238 MA's), (Start: 151 @17855 has 97 MA's), (188, 17915), (194, 17924), (196, 17927), (204, 17945), (233, 17993), (256, 18038), (307, 18152), (308, 18155), (314, 18167), (326, 18188), (329, 18197), (330, 18200), (357, 18278), (373, 18344), (382, 18377), (392, 18413), (402, 18437), (431, 18497), (432, 18500), (442, 18518), (486, 18581), (488, 18584), (495, 18602), (501, 18623), (508, 18641), (517, 18668), (523, 18689), (538, 18722), (550, 18764), (551, 18770), (552, 18773), (555, 18788), (564, 18815), (566, 18818), (573, 18839), (576, 18851), (585, 18884), (606, 18977), (636, 19085), (643, 19109), (652, 19115), (663, 19133), (664, 19136), (669, 19160),

(677, 19190), (685, 19214), (691, 19250), (692, 19256), (695, 19265), (701, 19292), (713, 19355), (719, 19379), (720, 19394), (732, 19436), (746, 19487), (777, 19583), (780, 19598), (784, 19607), (791, 19631), (807, 19694), (816, 19730), (892, 20036), (900, 20081), (912, 20183),

Gene: PBI1_30 Start: 24247, Stop: 26517, Start Num: 291

Candidate Starts for PBI1_30:

(Start: 291 @24247 has 22 MA's), (340, 24382), (344, 24391), (392, 24565), (394, 24571), (399, 24583), (465, 24736), (474, 24751), (482, 24766), (594, 25147), (595, 25153), (608, 25198), (631, 25285), (694, 25486), (696, 25492), (705, 25540), (710, 25570), (717, 25594), (764, 25783), (775, 25810), (789, 25858), (806, 25930), (816, 25969), (818, 25990), (821, 26005), (825, 26023), (829, 26053), (850, 26137), (907, 26338), (912, 26380), (937, 26506),

Gene: PHappiness_18 Start: 17378, Stop: 19915, Start Num: 100

Candidate Starts for PHappiness_18:

(96, 17366), (Start: 100 @17378 has 238 MA's), (113, 17399), (Start: 125 @17420 has 1 MA's), (142, 17459), (188, 17528), (194, 17537), (196, 17540), (204, 17558), (233, 17606), (257, 17654), (307, 17765), (308, 17768), (330, 17813), (357, 17891), (362, 17915), (380, 17981), (392, 18026), (404, 18056), (407, 18062), (416, 18080), (428, 18104), (432, 18113), (456, 18146), (461, 18152), (479, 18182), (495, 18221), (498, 18233), (501, 18242), (507, 18257), (508, 18260), (548, 18371), (549, 18374), (550, 18383), (551, 18389), (554, 18404), (555, 18407), (561, 18428), (573, 18458), (576, 18470), (585, 18503), (610, 18614), (611, 18617), (621, 18644), (623, 18650), (636, 18704), (637, 18707), (677, 18809), (681, 18821), (682, 18824), (697, 18890), (702, 18914), (705, 18935), (707, 18944), (724, 19004), (725, 19007), (734, 19043), (737, 19061), (745, 19082), (751, 19109), (776, 19178), (780, 19196), (784, 19205), (786, 19217), (797, 19253), (809, 19304), (814, 19322), (823, 19364), (833, 19418), (858, 19520), (896, 19655), (900, 19679), (908, 19733), (918, 19802), (925, 19847), (926, 19850),

Gene: PLOT_31 Start: 24319, Stop: 26589, Start Num: 291

Candidate Starts for PLOT_31:

(Start: 291 @24319 has 22 MA's), (340, 24454), (344, 24463), (392, 24637), (394, 24643), (399, 24655), (465, 24808), (474, 24823), (482, 24838), (594, 25219), (595, 25225), (608, 25270), (631, 25357), (694, 25558), (696, 25564), (705, 25612), (710, 25642), (717, 25666), (764, 25855), (775, 25882), (789, 25930), (806, 26002), (816, 26041), (818, 26062), (821, 26077), (825, 26095), (829, 26125), (850, 26209), (907, 26410), (912, 26452), (937, 26578),

Gene: PMC_18 Start: 17383, Stop: 19920, Start Num: 100

Candidate Starts for PMC_18:

(Start: 100 @17383 has 238 MA's), (Start: 151 @17473 has 97 MA's), (188, 17533), (194, 17542), (196, 17545), (204, 17563), (233, 17611), (257, 17659), (303, 17764), (307, 17770), (308, 17773), (329, 17815), (330, 17818), (362, 17920), (380, 17986), (392, 18031), (404, 18061), (407, 18067), (416, 18085), (428, 18109), (432, 18118), (456, 18151), (461, 18157), (488, 18208), (495, 18226), (498, 18238), (501, 18247), (507, 18262), (509, 18268), (548, 18376), (550, 18388), (551, 18394), (554, 18409), (555, 18412), (561, 18433), (573, 18463), (576, 18475), (585, 18508), (598, 18574), (610, 18619), (611, 18622), (621, 18649), (623, 18655), (636, 18709), (637, 18712), (652, 18739), (677, 18814), (681, 18826), (682, 18829), (697, 18895), (701, 18916), (702, 18919), (707, 18949), (719, 18991), (724, 19009), (725, 19012), (732, 19042), (737, 19066), (743, 19078), (745, 19087), (776, 19183), (780, 19201), (784, 19210), (786, 19222), (804, 19288), (807, 19297), (809, 19309), (823, 19369), (858, 19525), (896, 19660), (900, 19684), (908, 19738), (918, 19807), (925, 19852), (926, 19855),

Gene: PR_24 Start: 27208, Stop: 29922, Start Num: 76

Candidate Starts for PR_24:

(Start: 76 @27208 has 4 MA's), (101, 27277), (126, 27310), (135, 27331), (162, 27388), (185, 27418), (192, 27436), (237, 27529), (238, 27532), (261, 27586), (264, 27592), (299, 27670), (313, 27706), (321, 27727), (336, 27775), (351, 27814), (369, 27868), (381, 27922), (385, 27934), (392, 27958), (402, 27982), (403, 27985), (422, 28024), (438, 28066), (470, 28147), (479, 28162), (491, 28192), (526, 28285), (539, 28318), (553, 28375), (555, 28387), (556, 28396), (575, 28456), (583, 28492), (584, 28495), (599, 28573), (607, 28609), (616, 28639), (620, 28654), (652, 28762), (668, 28810), (670, 28816), (673, 28825), (675, 28831), (699, 28942), (704, 28969), (722, 29032), (724, 29038), (726, 29053), (737, 29095), (784, 29239), (788, 29257), (798, 29299), (801, 29311), (824, 29416), (827, 29434), (833, 29467), (853, 29554), (860, 29584), (863, 29590), (868, 29611), (878, 29650), (884, 29668), (900, 29743), (903, 29764), (908, 29800), (923, 29914),

Gene: Pacc40_18 Start: 17568, Stop: 20105, Start Num: 100

Candidate Starts for Pacc40_18:

(96, 17556), (Start: 100 @17568 has 238 MA's), (113, 17589), (Start: 125 @17610 has 1 MA's), (142, 17649), (188, 17718), (194, 17727), (196, 17730), (204, 17748), (233, 17796), (257, 17844), (307, 17955), (308, 17958), (330, 18003), (357, 18081), (362, 18105), (380, 18171), (392, 18216), (404, 18246), (407, 18252), (416, 18270), (428, 18294), (432, 18303), (456, 18336), (461, 18342), (479, 18372), (495, 18411), (498, 18423), (501, 18432), (507, 18447), (508, 18450), (548, 18561), (549, 18564), (550, 18573), (551, 18579), (554, 18594), (555, 18597), (561, 18618), (573, 18648), (576, 18660), (585, 18693), (610, 18804), (611, 18807), (621, 18834), (623, 18840), (636, 18894), (637, 18897), (677, 18999), (681, 19011), (682, 19014), (697, 19080), (702, 19104), (705, 19125), (707, 19134), (724, 19194), (725, 19197), (734, 19233), (737, 19251), (745, 19272), (751, 19299), (776, 19368), (780, 19386), (784, 19395), (786, 19407), (797, 19443), (809, 19494), (814, 19512), (823, 19554), (833, 19608), (858, 19710), (896, 19845), (900, 19869), (908, 19923), (918, 19992), (925, 20037), (926, 20040),

Gene: Pace1224_22 Start: 20643, Stop: 23102, Start Num: 97

Candidate Starts for Pace1224_22:

(Start: 97 @20643 has 9 MA's), (127, 20703), (147, 20751), (257, 20946), (376, 21234), (417, 21336), (431, 21360), (502, 21504), (507, 21519), (537, 21600), (557, 21675), (576, 21732), (582, 21756), (590, 21792), (636, 21978), (642, 21999), (666, 22047), (668, 22062), (686, 22128), (695, 22170), (719, 22263), (722, 22281), (737, 22347), (757, 22428), (787, 22494), (823, 22647), (842, 22737), (856, 22806), (868, 22842), (895, 22935), (909, 23040), (911, 23076),

Gene: PaddyBaddy_27 Start: 22039, Stop: 24435, Start Num: 148

Candidate Starts for PaddyBaddy_27:

(Start: 148 @22039 has 132 MA's), (248, 22216), (259, 22237), (342, 22384), (391, 22558), (404, 22591), (420, 22627), (479, 22720), (501, 22780), (508, 22798), (552, 22930), (566, 22975), (598, 23107), (610, 23152), (630, 23212), (672, 23326), (677, 23347), (688, 23386), (691, 23407), (695, 23422), (732, 23572), (734, 23578), (737, 23596), (752, 23650), (780, 23734), (807, 23827), (871, 24073), (912, 24289), (926, 24373), (933, 24406),

Gene: Padfoot_27 Start: 20912, Stop: 23344, Start Num: 151

Candidate Starts for Padfoot_27:

(Start: 151 @20912 has 97 MA's), (214, 21011), (339, 21272), (346, 21293), (416, 21500), (431, 21533), (439, 21563), (473, 21635), (482, 21659), (548, 21857), (556, 21902), (561, 21914), (565, 21923), (577, 21974), (619, 22154), (624, 22169), (641, 22238), (646, 22250), (670, 22313), (682, 22355), (691, 22394), (692, 22400), (695, 22409), (700, 22430), (715, 22490), (745, 22607), (755, 22649), (783, 22721), (785, 22730), (792, 22751), (808, 22823), (813, 22844), (833, 22940), (872, 23087), (894, 23168), (912, 23315),

Gene: Padpat_27 Start: 20872, Stop: 23304, Start Num: 151

Candidate Starts for Padpat_27:

(Start: 151 @20872 has 97 MA's), (214, 20971), (339, 21232), (346, 21253), (416, 21460), (431, 21493), (439, 21523), (473, 21595), (482, 21619), (498, 21664), (548, 21817), (556, 21862), (561, 21874), (565, 21883), (577, 21934), (619, 22114), (624, 22129), (641, 22198), (646, 22210), (670, 22273), (682, 22315), (691, 22354), (692, 22360), (695, 22369), (700, 22390), (715, 22450), (745, 22567), (755, 22609), (783, 22681), (785, 22690), (792, 22711), (808, 22783), (813, 22804), (833, 22900), (848, 22963), (894, 23128), (912, 23275),

Gene: PaintedDog_20 Start: 18529, Stop: 21066, Start Num: 109

Candidate Starts for PaintedDog_20:

(37, 18220), (Start: 109 @18529 has 2 MA's), (120, 18553), (156, 18634), (168, 18664), (177, 18673), (196, 18700), (200, 18709), (293, 18919), (310, 18964), (315, 18976), (316, 18979), (361, 19114), (373, 19159), (380, 19183), (387, 19201), (402, 19237), (404, 19243), (428, 19291), (461, 19342), (466, 19351), (495, 19414), (507, 19450), (508, 19453), (509, 19456), (555, 19594), (583, 19681), (585, 19687), (610, 19798), (677, 19993), (691, 20053), (704, 20125), (705, 20128), (707, 20137), (780, 20398), (807, 20491), (813, 20518), (815, 20524), (847, 20671), (854, 20692), (924, 20992),

Gene: Palpatine_26 Start: 22301, Stop: 24697, Start Num: 148

Candidate Starts for Palpatine_26:

(Start: 148 @22301 has 132 MA's), (248, 22478), (259, 22499), (342, 22646), (382, 22787), (391, 22820), (404, 22853), (420, 22889), (479, 22982), (501, 23042), (508, 23060), (552, 23192), (566, 23237), (598, 23369), (610, 23414), (630, 23474), (672, 23588), (677, 23609), (688, 23648), (691, 23669), (695, 23684), (732, 23834), (734, 23840), (737, 23858), (752, 23912), (780, 23996), (807, 24089), (871, 24335), (912, 24551), (926, 24635), (933, 24668),

Gene: Paperbeatsrock_28 Start: 23264, Stop: 25660, Start Num: 148

Candidate Starts for Paperbeatsrock_28:

(Start: 148 @23264 has 132 MA's), (248, 23441), (259, 23462), (342, 23609), (382, 23750), (391, 23783), (404, 23816), (420, 23852), (479, 23945), (501, 24005), (508, 24023), (552, 24155), (566, 24200), (598, 24332), (610, 24377), (630, 24437), (672, 24551), (677, 24572), (688, 24611), (691, 24632), (695, 24647), (732, 24797), (734, 24803), (737, 24821), (752, 24875), (780, 24959), (807, 25052), (871, 25298), (912, 25514), (926, 25598), (933, 25631),

Gene: Papyrus_30 Start: 24299, Stop: 27793, Start Num: 2

Candidate Starts for Papyrus_30:

(Start: 2 @24299 has 9 MA's), (4, 24311), (Start: 5 @24323 has 1 MA's), (8, 24506), (12, 24587), (18, 24686), (20, 24710), (21, 24728), (39, 24887), (41, 24920), (52, 24968), (63, 25007), (92, 25133), (Start: 97 @25142 has 9 MA's), (183, 25328), (278, 25529), (345, 25706), (373, 25805), (382, 25838), (396, 25883), (425, 25946), (467, 26015), (499, 26093), (501, 26099), (516, 26144), (517, 26147), (548, 26231), (614, 26486), (627, 26525), (675, 26672), (676, 26678), (716, 26852), (725, 26885), (729, 26906), (732, 26915), (738, 26942), (809, 27185), (839, 27329), (895, 27527), (899, 27557), (908, 27614), (911, 27650), (918, 27677), (919, 27689),

Gene: Pat3_25 Start: 21010, Stop: 23406, Start Num: 148

Candidate Starts for Pat3_25:

(Start: 148 @21010 has 132 MA's), (248, 21187), (259, 21208), (342, 21355), (382, 21496), (391, 21529), (404, 21562), (420, 21598), (479, 21691), (501, 21751), (508, 21769), (552, 21901), (566, 21946), (598, 22078), (610, 22123), (672, 22297), (677, 22318), (688, 22357), (691, 22378), (695, 22393), (734, 22549), (737, 22567), (752, 22621), (780, 22705), (862, 23029), (912, 23260), (926, 23344), (933, 23377),

Gene: PatoPoderoso_18 Start: 17437, Stop: 19974, Start Num: 100

Candidate Starts for PatoPoderoso_18:

(96, 17425), (Start: 100 @17437 has 238 MA's), (113, 17458), (Start: 125 @17479 has 1 MA's), (142, 17518), (188, 17587), (194, 17596), (196, 17599), (204, 17617), (222, 17650), (233, 17665), (257, 17713), (307, 17824), (308, 17827), (325, 17857), (329, 17869), (330, 17872), (357, 17950), (362, 17974), (380, 18040), (392, 18085), (404, 18115), (407, 18121), (416, 18139), (428, 18163), (432, 18172), (456, 18205), (461, 18211), (479, 18241), (495, 18280), (498, 18292), (501, 18301), (507, 18316), (508, 18319), (548, 18430), (549, 18433), (550, 18442), (551, 18448), (554, 18463), (555, 18466), (561, 18487), (573, 18517), (576, 18529), (585, 18562), (610, 18673), (611, 18676), (621, 18703), (623, 18709), (636, 18763), (637, 18766), (674, 18853), (677, 18868), (681, 18880), (682, 18883), (697, 18949), (702, 18973), (705, 18994), (707, 19003), (724, 19063), (725, 19066), (734, 19102), (737, 19120), (743, 19132), (745, 19141), (751, 19168), (776, 19237), (780, 19255), (784, 19264), (786, 19276), (797, 19312), (804, 19342), (809, 19363), (816, 19387), (823, 19423), (833, 19477), (849, 19537), (858, 19579), (880, 19657), (896, 19714), (900, 19738), (908, 19792), (912, 19840), (922, 19882), (925, 19906), (926, 19909),

Gene: Peel_27 Start: 20912, Stop: 23344, Start Num: 151

Candidate Starts for Peel_27:

(Start: 151 @20912 has 97 MA's), (214, 21011), (339, 21272), (346, 21293), (416, 21500), (431, 21533), (439, 21563), (473, 21635), (482, 21659), (548, 21857), (556, 21902), (561, 21914), (565, 21923), (577, 21974), (619, 22154), (624, 22169), (641, 22238), (646, 22250), (670, 22313), (682, 22355), (691, 22394), (692, 22400), (695, 22409), (700, 22430), (715, 22490), (745, 22607), (755, 22649), (783, 22721), (785, 22730), (792, 22751), (808, 22823), (813, 22844), (833, 22940), (872, 23087), (894, 23168), (912, 23315),

Gene: Penelope2018_30 Start: 24316, Stop: 26586, Start Num: 291

Candidate Starts for Penelope2018_30:

(Start: 291 @24316 has 22 MA's), (340, 24451), (344, 24460), (392, 24634), (394, 24640), (399, 24652), (465, 24805), (474, 24820), (482, 24835), (594, 25216), (595, 25222), (608, 25267), (631, 25354), (696, 25561), (705, 25609), (710, 25639), (717, 25663), (764, 25852), (775, 25879), (789, 25927), (806, 25999), (816, 26038), (818, 26059), (821, 26074), (825, 26092), (829, 26122), (850, 26206), (907, 26407), (912, 26449), (937, 26575),

Gene: Peridot_20 Start: 17209, Stop: 19746, Start Num: 100

Candidate Starts for Peridot_20:

(96, 17197), (Start: 100 @17209 has 238 MA's), (113, 17230), (Start: 125 @17251 has 1 MA's), (142, 17290), (194, 17368), (196, 17371), (204, 17389), (222, 17422), (233, 17437), (257, 17485), (307, 17596), (308, 17599), (330, 17644), (357, 17722), (380, 17812), (404, 17887), (407, 17893), (416, 17911), (428, 17935), (431, 17941), (432, 17944), (456, 17977), (461, 17983), (479, 18013), (488, 18034), (498, 18064), (501, 18073), (507, 18088), (508, 18091), (548, 18202), (549, 18205), (550, 18214), (551, 18220), (554, 18235), (555, 18238), (561, 18259), (573, 18289), (576, 18301), (585, 18334), (610, 18445), (611, 18448), (621, 18475), (623, 18481), (636, 18535), (637, 18538), (677, 18640), (681, 18652), (682, 18655), (697, 18721), (702, 18745), (705, 18766), (707, 18775), (724, 18835), (725, 18838), (734, 18874), (737, 18892), (743, 18904), (745, 18913), (751, 18940), (773, 18997), (776, 19009), (780, 19027), (784, 19036), (786, 19048), (797, 19084), (804, 19114), (807, 19123), (809, 19135), (823, 19195), (833, 19249), (849, 19309), (858, 19351), (896, 19486), (900, 19510), (908, 19564), (912, 19612), (922, 19654), (925, 19678), (926, 19681),

Gene: Petra64142_28 Start: 22744, Stop: 25140, Start Num: 148

Candidate Starts for Petra64142_28:

(Start: 148 @22744 has 132 MA's), (248, 22921), (259, 22942), (342, 23089), (382, 23230), (391, 23263), (404, 23296), (420, 23332), (479, 23425), (501, 23485), (508, 23503), (552, 23635), (566, 23680), (598, 23812), (610, 23857), (630, 23917), (672, 24031), (677, 24052), (688, 24091), (691, 24112), (695, 24127), (732, 24277), (734, 24283), (737, 24301), (752, 24355), (780, 24439), (807, 24532), (871, 24778), (912, 24994), (926, 25078), (933, 25111),

Gene: Phaja_26 Start: 22460, Stop: 24856, Start Num: 148

Candidate Starts for Phaja_26:

(Start: 148 @22460 has 132 MA's), (248, 22637), (259, 22658), (342, 22805), (382, 22946), (391, 22979), (404, 23012), (420, 23048), (479, 23141), (501, 23201), (508, 23219), (556, 23375), (566, 23396), (594, 23516), (598, 23528), (610, 23573), (677, 23768), (679, 23774), (682, 23783), (691, 23828), (695, 23843), (734, 23999), (737, 24017), (740, 24026), (755, 24080), (780, 24155), (781, 24158), (832, 24368), (834, 24380), (871, 24494), (912, 24710), (926, 24794), (931, 24818), (933, 24827),

Gene: Phalaborwa_30 Start: 24343, Stop: 26613, Start Num: 291

Candidate Starts for Phalaborwa_30:

(Start: 291 @24343 has 22 MA's), (340, 24478), (344, 24487), (392, 24661), (399, 24679), (406, 24694), (465, 24832), (482, 24862), (504, 24928), (505, 24931), (575, 25147), (594, 25243), (595, 25249), (608, 25294), (631, 25381), (672, 25477), (680, 25507), (692, 25567), (694, 25582), (696, 25588), (705, 25636), (717, 25690), (723, 25720), (764, 25879), (775, 25906), (778, 25915), (789, 25954), (806, 26026), (818, 26086), (821, 26101), (825, 26119), (829, 26149), (842, 26203), (850, 26233), (907, 26434), (937, 26602),

Gene: Phalconet_18 Start: 17448, Stop: 19979, Start Num: 100

Candidate Starts for Phalconet_18:

(96, 17436), (Start: 100 @17448 has 238 MA's), (113, 17469), (Start: 125 @17490 has 1 MA's), (142, 17529), (188, 17598), (194, 17607), (196, 17610), (222, 17661), (233, 17676), (257, 17718), (307, 17829), (308, 17832), (325, 17862), (330, 17877), (357, 17955), (380, 18045), (392, 18090), (404, 18120), (407, 18126), (416, 18144), (428, 18168), (432, 18177), (456, 18210), (461, 18216), (479, 18246), (495, 18285), (498, 18297), (501, 18306), (507, 18321), (508, 18324), (548, 18435), (549, 18438), (550, 18447), (551, 18453), (554, 18468), (555, 18471), (561, 18492), (573, 18522), (576, 18534), (585, 18567), (598, 18633), (610, 18678), (611, 18681), (621, 18708), (623, 18714), (636, 18768), (637, 18771), (674, 18858), (677, 18873), (681, 18885), (682, 18888), (697, 18954), (705, 18999), (707, 19008), (724, 19068), (725, 19071), (734, 19107), (737, 19125), (743, 19137), (745, 19146), (751, 19173), (776, 19242), (780, 19260), (784, 19269), (786, 19281), (797, 19317), (804, 19347), (809, 19368), (816, 19392), (823, 19428), (833, 19482), (849, 19542), (858, 19584), (880, 19662), (896, 19719), (900, 19743), (908, 19797), (912, 19845), (922, 19887), (925, 19911), (926, 19914),

Gene: Phanphagia_18 Start: 17450, Stop: 19927, Start Num: 100

Candidate Starts for Phanphagia_18:

(98, 17438), (Start: 100 @17450 has 238 MA's), (113, 17471), (Start: 125 @17492 has 1 MA's), (143, 17531), (188, 17600), (194, 17609), (196, 17612), (204, 17630), (222, 17663), (233, 17678), (285, 17765), (290, 17780), (308, 17816), (309, 17822), (330, 17855), (335, 17867), (389, 18038), (392, 18047), (404, 18071), (431, 18125), (456, 18161), (461, 18167), (479, 18197), (490, 18227), (498, 18248), (501, 18257), (531, 18341), (551, 18404), (555, 18422), (556, 18431), (566, 18452), (567, 18455), (573, 18473), (576, 18485), (583, 18512), (586, 18521), (594, 18572), (596, 18581), (598, 18584), (606, 18611), (609, 18620), (614, 18641), (636, 18719), (637, 18722), (679, 18830), (681, 18836), (691, 18884), (701, 18926), (702, 18929), (705, 18950), (706, 18956), (707, 18959), (716, 18989), (750, 19130), (755, 19148), (767, 19181), (776, 19205), (777, 19208), (780, 19223), (786, 19244), (797, 19280), (798, 19286), (805, 19313), (812, 19340), (840, 19475), (852, 19523), (857, 19547), (860, 19553), (871, 19571), (896, 19670), (899, 19691), (901, 19709), (912, 19787), (918, 19808), (929, 19871), (931, 19889), (936, 19907),

Gene: Phantasmagoria_32 Start: 29972, Stop: 32692, Start Num: 75

Candidate Starts for Phantasmagoria_32:

(Start: 75 @29972 has 36 MA's), (94, 30026), (117, 30065), (138, 30110), (149, 30134), (152, 30137), (166, 30170), (225, 30278), (237, 30299), (238, 30302), (261, 30356), (288, 30416), (299, 30440), (313, 30476), (331, 30524), (336, 30545), (351, 30584), (362, 30623), (369, 30638), (381, 30692), (385, 30704), (392, 30728), (402, 30752), (408, 30764), (415, 30779), (422, 30794), (438, 30836), (446, 30854), (458, 30893), (470, 30917), (539, 31088), (556, 31166), (575, 31226), (583, 31262), (584, 31265), (599, 31343), (607, 31379), (613, 31403), (620, 31424), (673, 31595), (675, 31601), (699, 31712), (704, 31739), (722, 31802), (724, 31808), (726, 31823), (737, 31865), (765, 31952), (776, 31979), (784, 32009), (788, 32027), (795, 32048), (796, 32057), (797, 32063), (798, 32069), (801, 32081), (824, 32186), (827, 32204), (833, 32237), (853, 32324), (860, 32354), (863, 32360), (878, 32420), (900, 32513), (901, 32528), (908, 32570), (923, 32684),

Gene: Pharsalus_27 Start: 23064, Stop: 25460, Start Num: 148

Candidate Starts for Pharsalus_27:

(Start: 148 @23064 has 132 MA's), (248, 23241), (259, 23262), (342, 23409), (382, 23550), (391, 23583), (404, 23616), (420, 23652), (479, 23745), (501, 23805), (508, 23823), (552, 23955), (566, 24000), (598, 24132), (610, 24177), (630, 24237), (672, 24351), (677, 24372), (688, 24411), (691, 24432), (695, 24447), (732, 24597), (734, 24603), (737, 24621), (752, 24675), (780, 24759), (807, 24852), (871, 25098), (912, 25314), (926, 25398), (933, 25431),

Gene: Phasih_19 Start: 17939, Stop: 20476, Start Num: 100

Candidate Starts for Phasih_19:

(Start: 100 @17939 has 238 MA's), (113, 17960), (Start: 125 @17981 has 1 MA's), (142, 18020), (188, 18089), (194, 18098), (196, 18101), (204, 18119), (222, 18152), (233, 18167), (303, 18320), (308, 18329), (330, 18374), (361, 18473), (362, 18476), (380, 18542), (404, 18617), (407, 18623), (428, 18665), (431, 18671), (432, 18674), (456, 18707), (461, 18713), (479, 18743), (488, 18764), (498, 18794), (501, 18803), (507, 18818), (508, 18821), (548, 18932), (549, 18935), (550, 18944), (551, 18950), (554, 18965), (555, 18968), (561, 18989), (573, 19019), (576, 19031), (585, 19064), (610, 19175), (611, 19178), (621, 19205), (623, 19211), (636, 19265), (637, 19268), (674, 19355), (677, 19370), (681, 19382), (682, 19385), (697, 19451), (702, 19475), (705, 19496), (707, 19505), (719, 19547), (724, 19565), (725, 19568), (732, 19598), (737, 19622), (743, 19634), (745, 19643), (776, 19739), (780, 19757), (784, 19766), (786, 19778), (797, 19814), (804, 19844), (807, 19853), (809, 19865), (823, 19925), (833, 19979), (849, 20039), (858, 20081), (896, 20216), (900, 20240), (908, 20294), (912, 20342), (922, 20384), (925, 20408), (926, 20411),

Gene: PhatBacter_26 Start: 22312, Stop: 24708, Start Num: 148

Candidate Starts for PhatBacter_26:

(Start: 148 @22312 has 132 MA's), (248, 22489), (259, 22510), (342, 22657), (382, 22798), (391, 22831), (404, 22864), (420, 22900), (479, 22993), (501, 23053), (508, 23071), (552, 23203), (566, 23248), (598, 23380), (610, 23425), (630, 23485), (672, 23599), (677, 23620), (688, 23659), (691, 23680), (695, 23695), (732, 23845), (734, 23851), (737, 23869), (752, 23923), (780, 24007), (807, 24100), (871, 24346), (912, 24562), (926, 24646), (933, 24679),

Gene: Phatniss_19 Start: 17901, Stop: 20438, Start Num: 100

Candidate Starts for Phatniss_19:

(96, 17889), (Start: 100 @17901 has 238 MA's), (113, 17922), (Start: 125 @17943 has 1 MA's), (142, 17982), (188, 18051), (194, 18060), (196, 18063), (204, 18081), (222, 18114), (233, 18129), (257, 18177), (303, 18282), (308, 18291), (329, 18333), (330, 18336), (357, 18414), (362, 18438), (380, 18504), (392, 18549), (404, 18579), (407, 18585), (416, 18603), (428, 18627), (432, 18636), (456, 18669), (461, 18675), (479, 18705), (495, 18744), (498, 18756), (501, 18765), (507, 18780), (508, 18783), (548, 18894), (550, 18906), (551, 18912), (554, 18927), (555, 18930), (561, 18951), (573, 18981), (576, 18993), (585, 19026), (598, 19092), (610, 19137), (611, 19140), (621, 19167), (623, 19173), (636, 19227), (637, 19230), (652, 19257), (677, 19332), (681, 19344), (682, 19347), (697, 19413), (702, 19437), (707, 19467), (719, 19509), (724, 19527), (725, 19530), (734, 19566), (737,

19584), (745, 19605), (751, 19632), (776, 19701), (780, 19719), (784, 19728), (786, 19740), (797, 19776), (804, 19806), (807, 19815), (809, 19827), (823, 19887), (833, 19941), (849, 20001), (858, 20043), (880, 20121), (896, 20178), (900, 20202), (908, 20256), (912, 20304), (922, 20346), (925, 20370), (926, 20373),

Gene: Phaux_25 Start: 22310, Stop: 24706, Start Num: 148

Candidate Starts for Phaux_25:

(Start: 148 @22310 has 132 MA's), (248, 22487), (259, 22508), (342, 22655), (382, 22796), (391, 22829), (404, 22862), (420, 22898), (479, 22991), (501, 23051), (508, 23069), (552, 23201), (566, 23246), (598, 23378), (610, 23423), (630, 23483), (672, 23597), (677, 23618), (688, 23657), (691, 23678), (695, 23693), (732, 23843), (734, 23849), (737, 23867), (752, 23921), (780, 24005), (807, 24098), (871, 24344), (912, 24560), (926, 24644), (933, 24677),

Gene: PhesterPhotato_18 Start: 17419, Stop: 19956, Start Num: 100

Candidate Starts for PhesterPhotato_18:

(96, 17407), (Start: 100 @17419 has 238 MA's), (113, 17440), (Start: 125 @17461 has 1 MA's), (142, 17500), (188, 17569), (194, 17578), (196, 17581), (204, 17599), (222, 17632), (233, 17647), (257, 17695), (307, 17806), (308, 17809), (325, 17839), (330, 17854), (357, 17932), (362, 17956), (380, 18022), (392, 18067), (404, 18097), (407, 18103), (416, 18121), (428, 18145), (432, 18154), (456, 18187), (461, 18193), (479, 18223), (495, 18262), (498, 18274), (501, 18283), (507, 18298), (508, 18301), (548, 18412), (549, 18415), (550, 18424), (551, 18430), (554, 18445), (555, 18448), (561, 18469), (573, 18499), (576, 18511), (585, 18544), (610, 18655), (611, 18658), (621, 18685), (623, 18691), (636, 18745), (637, 18748), (677, 18850), (681, 18862), (682, 18865), (697, 18931), (702, 18955), (705, 18976), (707, 18985), (724, 19045), (725, 19048), (734, 19084), (737, 19102), (743, 19114), (745, 19123), (751, 19150), (776, 19219), (780, 19237), (784, 19246), (786, 19258), (797, 19294), (804, 19324), (809, 19345), (816, 19369), (823, 19405), (833, 19459), (849, 19519), (858, 19561), (880, 19639), (896, 19696), (900, 19720), (901, 19735), (908, 19774), (912, 19822), (922, 19864), (925, 19888), (926, 19891),

Gene: Philus_18 Start: 17405, Stop: 19942, Start Num: 100

Candidate Starts for Philus_18:

(Start: 100 @17405 has 238 MA's), (113, 17426), (Start: 125 @17447 has 1 MA's), (142, 17486), (188, 17555), (194, 17564), (196, 17567), (204, 17585), (233, 17633), (303, 17786), (308, 17795), (330, 17840), (357, 17918), (362, 17942), (380, 18008), (392, 18053), (404, 18083), (407, 18089), (416, 18107), (428, 18131), (432, 18140), (456, 18173), (461, 18179), (479, 18209), (495, 18248), (501, 18269), (507, 18284), (508, 18287), (549, 18401), (550, 18410), (551, 18416), (555, 18434), (561, 18455), (573, 18485), (576, 18497), (585, 18530), (610, 18641), (611, 18644), (621, 18671), (623, 18677), (636, 18731), (637, 18734), (674, 18821), (677, 18836), (682, 18851), (702, 18941), (705, 18962), (707, 18971), (724, 19031), (725, 19034), (734, 19070), (737, 19088), (743, 19100), (745, 19109), (751, 19136), (776, 19205), (780, 19223), (784, 19232), (786, 19244), (797, 19280), (804, 19310), (809, 19331), (816, 19355), (823, 19391), (833, 19445), (858, 19547), (880, 19625), (896, 19682), (900, 19706), (908, 19760), (912, 19808), (922, 19850), (928, 19883), (929, 19886),

Gene: PhlipPhlop_18 Start: 17352, Stop: 19889, Start Num: 100

Candidate Starts for PhlipPhlop_18:

(Start: 100 @17352 has 238 MA's), (113, 17373), (Start: 125 @17394 has 1 MA's), (142, 17433), (188, 17502), (194, 17511), (196, 17514), (204, 17532), (233, 17580), (303, 17733), (308, 17742), (330, 17787), (361, 17886), (362, 17889), (380, 17955), (404, 18030), (407, 18036), (416, 18054), (428, 18078), (431, 18084), (432, 18087), (456, 18120), (461, 18126), (479, 18156), (488, 18177), (498, 18207), (501, 18216), (507, 18231), (508, 18234), (548, 18345), (549, 18348), (550, 18357), (551, 18363), (554, 18378), (555, 18381), (561, 18402), (573, 18432), (576, 18444), (585, 18477), (610, 18588), (611, 18591), (621, 18618), (623, 18624), (636, 18678), (637, 18681), (677, 18783), (681, 18795), (682, 18798), (697, 18864), (702, 18888), (705, 18909), (707, 18918), (724, 18978), (725,

18981), (734, 19017), (737, 19035), (743, 19047), (745, 19056), (751, 19083), (773, 19140), (776, 19152), (780, 19170), (784, 19179), (786, 19191), (797, 19227), (804, 19257), (807, 19266), (809, 19278), (823, 19338), (833, 19392), (849, 19452), (858, 19494), (896, 19629), (900, 19653), (908, 19707), (912, 19755), (922, 19797), (925, 19821), (926, 19824),

Gene: Phrann_20 Start: 17560, Stop: 20412, Start Num: 56

Candidate Starts for Phrann_20:

(Start: 51 @17548 has 2 MA's), (Start: 56 @17560 has 2 MA's), (62, 17572), (82, 17683), (89, 17707), (91, 17710), (93, 17719), (155, 17857), (172, 17899), (175, 17902), (221, 17992), (226, 18004), (236, 18025), (247, 18049), (277, 18124), (300, 18196), (311, 18226), (326, 18262), (347, 18325), (352, 18340), (362, 18373), (392, 18448), (400, 18472), (403, 18478), (430, 18532), (433, 18538), (464, 18625), (475, 18646), (488, 18670), (513, 18736), (518, 18757), (526, 18775), (539, 18808), (546, 18835), (556, 18886), (572, 18922), (575, 18946), (583, 18982), (586, 18991), (588, 19006), (592, 19033), (599, 19063), (607, 19099), (613, 19123), (640, 19222), (656, 19261), (668, 19300), (675, 19321), (699, 19432), (704, 19459), (712, 19489), (719, 19510), (722, 19522), (724, 19528), (737, 19585), (749, 19624), (784, 19729), (788, 19747), (798, 19789), (801, 19801), (833, 19957), (853, 20044), (860, 20074), (863, 20080), (878, 20140), (884, 20158), (900, 20233), (903, 20254), (908, 20290), (923, 20404),

Gene: Phreeze_29 Start: 25682, Stop: 28525, Start Num: 36

Candidate Starts for Phreeze_29:

(Start: 36 @25682 has 10 MA's), (65, 25814), (67, 25826), (68, 25835), (83, 25904), (124, 25970), (131, 25991), (154, 26039), (173, 26081), (190, 26105), (208, 26138), (227, 26174), (234, 26186), (280, 26279), (303, 26336), (323, 26375), (382, 26570), (390, 26600), (407, 26642), (484, 26783), (495, 26801), (520, 26882), (538, 26921), (545, 26942), (585, 27080), (591, 27119), (609, 27182), (637, 27284), (705, 27509), (805, 27872), (812, 27899), (866, 28142), (877, 28175), (882, 28199), (906, 28319), (919, 28397), (935, 28484), (938, 28499), (939, 28505),

Gene: Phrux_26 Start: 22025, Stop: 24421, Start Num: 148

Candidate Starts for Phrux_26:

(Start: 148 @22025 has 132 MA's), (248, 22202), (259, 22223), (342, 22370), (391, 22544), (404, 22577), (420, 22613), (479, 22706), (501, 22766), (508, 22784), (552, 22916), (566, 22961), (598, 23093), (610, 23138), (630, 23198), (672, 23312), (677, 23333), (688, 23372), (691, 23393), (695, 23408), (732, 23558), (734, 23564), (737, 23582), (752, 23636), (780, 23720), (807, 23813), (871, 24059), (912, 24275), (926, 24359), (933, 24392),

Gene: Piatt_27 Start: 20912, Stop: 23344, Start Num: 151

Candidate Starts for Piatt_27:

(Start: 151 @20912 has 97 MA's), (214, 21011), (339, 21272), (346, 21293), (416, 21500), (431, 21533), (439, 21563), (473, 21635), (482, 21659), (548, 21857), (556, 21902), (561, 21914), (565, 21923), (577, 21974), (619, 22154), (624, 22169), (641, 22238), (646, 22250), (670, 22313), (682, 22355), (691, 22394), (692, 22400), (695, 22409), (700, 22430), (715, 22490), (745, 22607), (755, 22649), (783, 22721), (785, 22730), (792, 22751), (808, 22823), (813, 22844), (833, 22940), (872, 23087), (894, 23168), (912, 23315),

Gene: Pinnie_23 Start: 21181, Stop: 23643, Start Num: 97

Candidate Starts for Pinnie_23:

(Start: 97 @21181 has 9 MA's), (145, 21286), (147, 21289), (220, 21409), (243, 21451), (257, 21484), (309, 21589), (376, 21772), (398, 21832), (465, 21955), (483, 21994), (501, 22042), (502, 22045), (537, 22141), (545, 22162), (552, 22192), (557, 22216), (582, 22297), (585, 22306), (590, 22333), (619, 22453), (642, 22540), (666, 22588), (686, 22669), (695, 22711), (719, 22804), (737, 22888), (816, 23149), (823, 23188), (841, 23275), (856, 23347), (892, 23464), (895, 23476), (909, 23581), (914, 23626),

Gene: Piper2020_19 Start: 17270, Stop: 19795, Start Num: 100

Candidate Starts for Piper2020_19:

(Start: 100 @17270 has 238 MA's), (113, 17291), (Start: 125 @17312 has 1 MA's), (142, 17351), (188, 17420), (194, 17429), (196, 17432), (204, 17450), (222, 17483), (233, 17498), (257, 17546), (307, 17657), (308, 17660), (330, 17705), (357, 17783), (362, 17807), (380, 17873), (382, 17882), (404, 17948), (407, 17954), (416, 17972), (428, 17996), (431, 18002), (432, 18005), (456, 18038), (461, 18044), (479, 18074), (488, 18095), (501, 18134), (507, 18149), (509, 18155), (555, 18299), (573, 18350), (597, 18461), (611, 18512), (620, 18536), (652, 18629), (669, 18674), (672, 18683), (677, 18704), (681, 18716), (682, 18719), (691, 18764), (702, 18809), (704, 18827), (705, 18830), (719, 18881), (732, 18932), (734, 18938), (737, 18956), (743, 18968), (745, 18977), (752, 19010), (780, 19091), (799, 19160), (807, 19187), (813, 19214), (825, 19265), (833, 19313), (899, 19556), (912, 19661), (918, 19682), (928, 19736), (932, 19760),

Gene: Pippy_18 Start: 17389, Stop: 20253, Start Num: 53

Candidate Starts for Pippy_18:

(50, 17377), (Start: 53 @17389 has 9 MA's), (62, 17410), (64, 17431), (69, 17470), (87, 17539), (89, 17548), (91, 17551), (116, 17602), (155, 17692), (175, 17737), (221, 17827), (224, 17836), (226, 17839), (236, 17860), (242, 17872), (255, 17905), (301, 18040), (319, 18088), (326, 18103), (333, 18124), (347, 18166), (352, 18181), (355, 18190), (362, 18217), (370, 18223), (381, 18268), (384, 18277), (392, 18292), (400, 18313), (403, 18319), (408, 18328), (420, 18355), (430, 18373), (464, 18466), (475, 18487), (488, 18511), (513, 18577), (518, 18598), (526, 18616), (539, 18649), (544, 18673), (546, 18676), (556, 18727), (572, 18763), (575, 18787), (583, 18823), (586, 18832), (588, 18847), (592, 18874), (599, 18904), (607, 18940), (613, 18964), (640, 19063), (656, 19102), (673, 19156), (699, 19273), (704, 19300), (722, 19363), (724, 19369), (726, 19384), (737, 19426), (765, 19513), (776, 19540), (784, 19570), (788, 19588), (796, 19618), (798, 19630), (801, 19642), (824, 19747), (827, 19765), (833, 19798), (853, 19885), (860, 19915), (863, 19921), (878, 19981), (881, 19990), (884, 19999), (900, 20074), (903, 20095), (908, 20131), (923, 20245),

Gene: Pisa1_26 Start: 20946, Stop: 23378, Start Num: 151

Candidate Starts for Pisa1_26:

(Start: 151 @20946 has 97 MA's), (174, 20997), (182, 21006), (339, 21306), (346, 21327), (429, 21564), (431, 21567), (439, 21597), (440, 21600), (473, 21669), (482, 21693), (483, 21699), (498, 21738), (511, 21777), (548, 21891), (556, 21936), (561, 21948), (565, 21957), (577, 22008), (619, 22188), (624, 22203), (641, 22272), (670, 22347), (682, 22389), (691, 22428), (692, 22434), (695, 22443), (700, 22464), (715, 22524), (726, 22572), (745, 22641), (755, 22683), (785, 22764), (799, 22821), (808, 22857), (813, 22878), (833, 22974), (848, 23037), (859, 23085), (894, 23202), (904, 23277),

Gene: Pisa4_26 Start: 20946, Stop: 23378, Start Num: 151

Candidate Starts for Pisa4_26:

(Start: 151 @20946 has 97 MA's), (174, 20997), (182, 21006), (339, 21306), (346, 21327), (429, 21564), (431, 21567), (439, 21597), (440, 21600), (473, 21669), (482, 21693), (483, 21699), (498, 21738), (511, 21777), (548, 21891), (556, 21936), (561, 21948), (565, 21957), (577, 22008), (619, 22188), (624, 22203), (641, 22272), (670, 22347), (682, 22389), (691, 22428), (692, 22434), (695, 22443), (700, 22464), (715, 22524), (726, 22572), (745, 22641), (755, 22683), (785, 22764), (799, 22821), (808, 22857), (813, 22878), (833, 22974), (848, 23037), (859, 23085), (894, 23202), (904, 23277),

Gene: Plumbus_19 Start: 17226, Stop: 19763, Start Num: 100

Candidate Starts for Plumbus_19:

(96, 17214), (Start: 100 @17226 has 238 MA's), (113, 17247), (Start: 125 @17268 has 1 MA's), (142, 17307), (188, 17376), (194, 17385), (196, 17388), (204, 17406), (222, 17439), (233, 17454), (257,

17502), (307, 17613), (308, 17616), (325, 17646), (329, 17658), (330, 17661), (357, 17739), (362, 17763), (380, 17829), (392, 17874), (404, 17904), (407, 17910), (416, 17928), (428, 17952), (432, 17961), (456, 17994), (461, 18000), (479, 18030), (495, 18069), (498, 18081), (501, 18090), (507, 18105), (508, 18108), (548, 18219), (549, 18222), (550, 18231), (551, 18237), (554, 18252), (555, 18255), (561, 18276), (573, 18306), (576, 18318), (585, 18351), (598, 18417), (610, 18462), (611, 18465), (621, 18492), (623, 18498), (636, 18552), (637, 18555), (674, 18642), (677, 18657), (681, 18669), (682, 18672), (697, 18738), (702, 18762), (705, 18783), (707, 18792), (724, 18852), (725, 18855), (734, 18891), (737, 18909), (743, 18921), (745, 18930), (751, 18957), (776, 19026), (780, 19044), (784, 19053), (786, 19065), (797, 19101), (804, 19131), (809, 19152), (816, 19176), (823, 19212), (833, 19266), (849, 19326), (858, 19368), (880, 19446), (896, 19503), (900, 19527), (908, 19581), (912, 19629), (922, 19671), (925, 19695), (926, 19698),

Gene: Poenanya_18 Start: 17534, Stop: 20071, Start Num: 100

Candidate Starts for Poenanya_18:

(Start: 100 @17534 has 238 MA's), (113, 17555), (Start: 125 @17576 has 1 MA's), (142, 17615), (188, 17684), (194, 17693), (196, 17696), (204, 17714), (233, 17762), (307, 17921), (308, 17924), (330, 17969), (357, 18047), (362, 18071), (380, 18137), (404, 18212), (407, 18218), (416, 18236), (428, 18260), (431, 18266), (432, 18269), (456, 18302), (461, 18308), (479, 18338), (488, 18359), (498, 18389), (501, 18398), (540, 18506), (545, 18518), (548, 18527), (549, 18530), (551, 18545), (554, 18560), (555, 18563), (561, 18584), (576, 18626), (585, 18659), (610, 18770), (611, 18773), (621, 18800), (623, 18806), (636, 18860), (637, 18863), (652, 18890), (677, 18965), (681, 18977), (682, 18980), (697, 19046), (701, 19067), (702, 19070), (705, 19091), (707, 19100), (724, 19160), (725, 19163), (734, 19199), (737, 19217), (743, 19229), (745, 19238), (751, 19265), (773, 19322), (776, 19334), (780, 19352), (784, 19361), (786, 19373), (797, 19409), (804, 19439), (807, 19448), (809, 19460), (823, 19520), (833, 19574), (849, 19634), (858, 19676), (896, 19811), (900, 19835), (908, 19889), (912, 19937), (922, 19979), (925, 20003), (926, 20006),

Gene: Pokerus_26 Start: 20829, Stop: 23261, Start Num: 151

Candidate Starts for Pokerus_26:

(Start: 151 @20829 has 97 MA's), (214, 20928), (339, 21189), (346, 21210), (416, 21417), (431, 21450), (439, 21480), (473, 21552), (482, 21576), (548, 21774), (556, 21819), (561, 21831), (565, 21840), (577, 21891), (619, 22071), (624, 22086), (641, 22155), (646, 22167), (670, 22230), (682, 22272), (691, 22311), (692, 22317), (695, 22326), (700, 22347), (715, 22407), (745, 22524), (755, 22566), (783, 22638), (785, 22647), (792, 22668), (808, 22740), (813, 22761), (833, 22857), (872, 23004), (894, 23085), (912, 23232),

Gene: Policronamos_26 Start: 22312, Stop: 24708, Start Num: 148

Candidate Starts for Policronamos_26:

(Start: 148 @22312 has 132 MA's), (248, 22489), (259, 22510), (342, 22657), (382, 22798), (391, 22831), (404, 22864), (420, 22900), (479, 22993), (501, 23053), (508, 23071), (538, 23152), (598, 23380), (610, 23425), (677, 23620), (679, 23626), (682, 23635), (691, 23680), (695, 23695), (734, 23851), (737, 23869), (740, 23878), (755, 23932), (780, 24007), (832, 24220), (834, 24232), (871, 24346), (912, 24562), (926, 24646), (931, 24670), (933, 24679),

Gene: Polka14_19 Start: 17940, Stop: 20477, Start Num: 100

Candidate Starts for Polka14_19:

(96, 17928), (Start: 100 @17940 has 238 MA's), (113, 17961), (Start: 125 @17982 has 1 MA's), (142, 18021), (188, 18090), (194, 18099), (196, 18102), (204, 18120), (233, 18168), (257, 18216), (307, 18327), (308, 18330), (330, 18375), (357, 18453), (362, 18477), (380, 18543), (392, 18588), (404, 18618), (407, 18624), (416, 18642), (428, 18666), (432, 18675), (456, 18708), (461, 18714), (479, 18744), (495, 18783), (498, 18795), (501, 18804), (507, 18819), (508, 18822), (548, 18933), (549, 18936), (550, 18945), (551, 18951), (554, 18966), (555, 18969), (561, 18990), (573, 19020), (576, 19032), (585, 19065), (610, 19176), (611, 19179), (621, 19206), (623, 19212), (636, 19266), (637,

19269), (677, 19371), (681, 19383), (682, 19386), (697, 19452), (702, 19476), (705, 19497), (707, 19506), (724, 19566), (725, 19569), (734, 19605), (737, 19623), (745, 19644), (751, 19671), (776, 19740), (780, 19758), (784, 19767), (786, 19779), (797, 19815), (809, 19866), (814, 19884), (823, 19926), (833, 19980), (858, 20082), (896, 20217), (900, 20241), (908, 20295), (918, 20364), (925, 20409), (926, 20412),

Gene: Pollywog_21 Start: 18605, Stop: 21094, Start Num: 100

Candidate Starts for Pollywog_21:

(Start: 100 @18605 has 238 MA's), (113, 18626), (Start: 125 @18647 has 1 MA's), (143, 18686), (188, 18755), (194, 18764), (196, 18767), (204, 18785), (233, 18833), (257, 18881), (290, 18935), (308, 18971), (309, 18977), (311, 18980), (327, 18998), (335, 19022), (345, 19046), (366, 19109), (389, 19193), (392, 19202), (404, 19226), (416, 19250), (428, 19274), (431, 19280), (442, 19301), (461, 19322), (479, 19352), (490, 19382), (498, 19403), (531, 19496), (538, 19511), (540, 19520), (548, 19541), (549, 19544), (573, 19628), (574, 19631), (576, 19640), (583, 19667), (586, 19676), (592, 19715), (596, 19736), (598, 19739), (609, 19775), (614, 19796), (636, 19874), (637, 19877), (666, 19931), (681, 19991), (702, 20084), (704, 20102), (705, 20105), (716, 20141), (729, 20195), (732, 20204), (750, 20282), (755, 20300), (769, 20336), (770, 20339), (776, 20357), (777, 20360), (780, 20375), (786, 20396), (797, 20432), (799, 20444), (816, 20507), (823, 20540), (840, 20627), (852, 20675), (857, 20699), (865, 20726), (871, 20735), (879, 20774), (890, 20813), (896, 20837), (899, 20858), (912, 20954), (918, 20975), (929, 21038), (933, 21065), (936, 21074),

Gene: Polo2Bam_20 Start: 17446, Stop: 19983, Start Num: 100

Candidate Starts for Polo2Bam_20:

(Start: 100 @17446 has 238 MA's), (113, 17467), (Start: 125 @17488 has 1 MA's), (140, 17524), (142, 17527), (188, 17596), (194, 17605), (196, 17608), (204, 17626), (222, 17659), (233, 17674), (257, 17722), (303, 17827), (307, 17833), (308, 17836), (329, 17878), (330, 17881), (362, 17983), (380, 18049), (392, 18094), (404, 18124), (407, 18130), (416, 18148), (428, 18172), (432, 18181), (456, 18214), (461, 18220), (488, 18271), (495, 18289), (498, 18301), (501, 18310), (507, 18325), (509, 18331), (548, 18439), (550, 18451), (551, 18457), (554, 18472), (555, 18475), (561, 18496), (573, 18526), (576, 18538), (585, 18571), (598, 18637), (610, 18682), (611, 18685), (621, 18712), (623, 18718), (636, 18772), (637, 18775), (674, 18862), (677, 18877), (681, 18889), (682, 18892), (697, 18958), (705, 19003), (707, 19012), (724, 19072), (725, 19075), (734, 19111), (737, 19129), (743, 19141), (745, 19150), (751, 19177), (776, 19246), (780, 19264), (784, 19273), (786, 19285), (797, 19321), (804, 19351), (809, 19372), (816, 19396), (823, 19432), (833, 19486), (849, 19546), (858, 19588), (880, 19666), (896, 19723), (900, 19747), (908, 19801), (912, 19849), (922, 19891), (925, 19915), (926, 19918),

Gene: Poochiewood_20 Start: 18997, Stop: 21678, Start Num: 79

Candidate Starts for Poochiewood_20:

(Start: 79 @18997 has 19 MA's), (81, 19003), (164, 19180), (182, 19210), (215, 19273), (249, 19348), (273, 19402), (304, 19462), (306, 19468), (333, 19534), (354, 19597), (363, 19630), (365, 19633), (372, 19657), (380, 19687), (381, 19693), (395, 19741), (404, 19762), (412, 19777), (421, 19798), (437, 19837), (442, 19849), (450, 19867), (477, 19924), (488, 19942), (497, 19972), (506, 19996), (507, 19999), (525, 20044), (542, 20095), (549, 20113), (561, 20167), (579, 20239), (583, 20251), (586, 20260), (592, 20302), (599, 20332), (607, 20368), (611, 20386), (617, 20401), (618, 20407), (628, 20440), (670, 20569), (673, 20578), (691, 20659), (699, 20695), (701, 20701), (726, 20806), (729, 20815), (734, 20830), (737, 20848), (750, 20890), (782, 20986), (784, 20992), (797, 21046), (798, 21052), (801, 21064), (826, 21175), (830, 21205), (831, 21211), (853, 21307), (855, 21313), (860, 21337), (863, 21343), (864, 21349), (877, 21394), (878, 21403), (881, 21412), (893, 21451), (898, 21487), (900, 21496), (901, 21511), (913, 21607), (921, 21658), (922, 21664),

Gene: PopTart_18 Start: 17445, Stop: 19982, Start Num: 100

Candidate Starts for PopTart_18:

(96, 17433), (Start: 100 @17445 has 238 MA's), (113, 17466), (Start: 125 @17487 has 1 MA's), (142, 17526), (188, 17595), (194, 17604), (196, 17607), (204, 17625), (222, 17658), (233, 17673), (307, 17832), (308, 17835), (330, 17880), (357, 17958), (362, 17982), (380, 18048), (404, 18123), (407, 18129), (416, 18147), (428, 18171), (431, 18177), (432, 18180), (456, 18213), (461, 18219), (479, 18249), (488, 18270), (498, 18300), (501, 18309), (530, 18390), (550, 18450), (551, 18456), (554, 18471), (555, 18474), (561, 18495), (576, 18537), (585, 18570), (586, 18573), (621, 18711), (623, 18717), (636, 18771), (637, 18774), (652, 18801), (677, 18876), (681, 18888), (682, 18891), (697, 18957), (702, 18981), (705, 19002), (707, 19011), (724, 19071), (725, 19074), (734, 19110), (737, 19128), (745, 19149), (776, 19245), (780, 19263), (784, 19272), (786, 19284), (797, 19320), (804, 19350), (823, 19431), (833, 19485), (858, 19587), (896, 19722), (900, 19746), (908, 19800), (912, 19848), (922, 19890), (925, 19914), (926, 19917),

Gene: Porcelain_35 Start: 27554, Stop: 30061, Start Num: 100

Candidate Starts for Porcelain_35:

(Start: 100 @27554 has 238 MA's), (204, 27749), (222, 27785), (233, 27800), (285, 27887), (290, 27902), (330, 27977), (335, 27989), (346, 28016), (376, 28121), (389, 28160), (392, 28169), (404, 28193), (407, 28199), (416, 28217), (424, 28235), (432, 28250), (436, 28259), (442, 28268), (456, 28283), (473, 28310), (479, 28319), (495, 28358), (498, 28370), (501, 28379), (531, 28463), (555, 28544), (566, 28574), (567, 28577), (576, 28607), (583, 28634), (586, 28643), (594, 28694), (596, 28703), (598, 28706), (609, 28742), (614, 28763), (626, 28799), (679, 28952), (691, 29006), (702, 29051), (704, 29069), (705, 29072), (716, 29111), (750, 29258), (752, 29267), (777, 29336), (780, 29351), (823, 29516), (840, 29603), (852, 29651), (871, 29702), (890, 29780), (927, 30002), (929, 30005), (933, 30032),

Gene: Porky_26 Start: 22121, Stop: 24517, Start Num: 148

Candidate Starts for Porky_26:

(Start: 148 @22121 has 132 MA's), (248, 22298), (259, 22319), (342, 22466), (382, 22607), (391, 22640), (404, 22673), (420, 22709), (479, 22802), (501, 22862), (508, 22880), (552, 23012), (566, 23057), (598, 23189), (610, 23234), (630, 23294), (672, 23408), (677, 23429), (688, 23468), (691, 23489), (695, 23504), (732, 23654), (734, 23660), (737, 23678), (752, 23732), (780, 23816), (807, 23909), (871, 24155), (912, 24371), (926, 24455), (933, 24488),

Gene: Prager_30 Start: 24328, Stop: 26598, Start Num: 291

Candidate Starts for Prager_30:

(Start: 291 @24328 has 22 MA's), (340, 24463), (344, 24472), (392, 24646), (394, 24652), (399, 24664), (465, 24817), (474, 24832), (482, 24847), (594, 25228), (595, 25234), (608, 25279), (631, 25366), (694, 25567), (696, 25573), (705, 25621), (710, 25651), (717, 25675), (764, 25864), (775, 25891), (789, 25939), (806, 26011), (816, 26050), (818, 26071), (821, 26086), (825, 26104), (829, 26134), (850, 26218), (907, 26419), (912, 26461), (937, 26587),

Gene: PrinceCharming_32 Start: 30078, Stop: 32798, Start Num: 75

Candidate Starts for PrinceCharming_32:

(Start: 75 @30078 has 36 MA's), (94, 30132), (117, 30171), (138, 30216), (149, 30240), (152, 30243), (166, 30276), (225, 30384), (237, 30405), (238, 30408), (261, 30462), (288, 30522), (299, 30546), (313, 30582), (331, 30630), (336, 30651), (351, 30690), (362, 30729), (369, 30744), (381, 30798), (385, 30810), (392, 30834), (402, 30858), (408, 30870), (415, 30885), (422, 30900), (438, 30942), (446, 30960), (458, 30999), (470, 31023), (539, 31194), (556, 31272), (575, 31332), (583, 31368), (584, 31371), (599, 31449), (607, 31485), (613, 31509), (640, 31608), (656, 31647), (673, 31701), (699, 31818), (704, 31845), (722, 31908), (724, 31914), (726, 31929), (737, 31971), (765, 32058), (776, 32085), (784, 32115), (788, 32133), (795, 32154), (796, 32163), (797, 32169), (798, 32175), (801, 32187), (824, 32292), (827, 32310), (833, 32343), (853, 32430), (860, 32460), (863, 32466), (878, 32526), (900, 32619), (901, 32634), (908, 32676), (923, 32790),

Gene: Priscilla_18 Start: 17407, Stop: 19959, Start Num: 100

Candidate Starts for Priscilla_18:

(Start: 100 @17407 has 238 MA's), (142, 17488), (188, 17557), (194, 17566), (196, 17569), (204, 17587), (233, 17635), (256, 17680), (307, 17794), (308, 17797), (314, 17809), (326, 17830), (329, 17839), (330, 17842), (346, 17890), (357, 17920), (373, 17986), (382, 18019), (392, 18055), (402, 18079), (431, 18139), (432, 18142), (442, 18160), (486, 18223), (488, 18226), (495, 18244), (501, 18265), (508, 18283), (517, 18310), (523, 18331), (538, 18364), (550, 18406), (551, 18412), (552, 18415), (555, 18430), (564, 18457), (566, 18460), (573, 18481), (576, 18493), (585, 18526), (606, 18619), (636, 18727), (643, 18751), (652, 18757), (663, 18775), (664, 18778), (669, 18802), (677, 18832), (685, 18856), (691, 18892), (692, 18898), (695, 18907), (701, 18934), (713, 18997), (719, 19021), (720, 19036), (732, 19078), (746, 19129), (777, 19225), (780, 19240), (784, 19249), (791, 19273), (807, 19336), (816, 19372), (892, 19678), (900, 19723), (912, 19825),

Gene: Prithvi_27 Start: 20846, Stop: 23278, Start Num: 151

Candidate Starts for Prithvi_27:

(Start: 151 @20846 has 97 MA's), (214, 20945), (339, 21206), (416, 21434), (431, 21467), (439, 21497), (473, 21569), (482, 21593), (498, 21638), (548, 21791), (556, 21836), (561, 21848), (565, 21857), (574, 21893), (577, 21908), (619, 22088), (624, 22103), (641, 22172), (646, 22184), (670, 22247), (682, 22289), (691, 22328), (692, 22334), (695, 22343), (700, 22364), (715, 22424), (745, 22541), (755, 22583), (783, 22655), (785, 22664), (792, 22685), (808, 22757), (813, 22778), (833, 22874), (894, 23102), (912, 23249),

Gene: Ptowny_26 Start: 21666, Stop: 24062, Start Num: 148

Candidate Starts for Ptowny_26:

(Start: 148 @21666 has 132 MA's), (248, 21843), (259, 21864), (342, 22011), (391, 22185), (404, 22218), (420, 22254), (479, 22347), (501, 22407), (508, 22425), (541, 22518), (552, 22557), (566, 22602), (598, 22734), (610, 22779), (630, 22839), (672, 22953), (677, 22974), (688, 23013), (691, 23034), (695, 23049), (732, 23199), (734, 23205), (737, 23223), (752, 23277), (780, 23361), (807, 23454), (871, 23700), (912, 23916), (926, 24000), (933, 24033),

Gene: Puissant_30 Start: 26145, Stop: 28988, Start Num: 36

Candidate Starts for Puissant_30:

(Start: 36 @26145 has 10 MA's), (59, 26247), (65, 26277), (67, 26289), (68, 26298), (85, 26373), (120, 26427), (124, 26433), (131, 26454), (139, 26475), (154, 26502), (265, 26715), (270, 26727), (308, 26808), (311, 26817), (346, 26904), (349, 26910), (366, 26964), (402, 27093), (407, 27105), (477, 27225), (484, 27246), (538, 27384), (576, 27510), (637, 27747), (669, 27819), (681, 27861), (685, 27873), (705, 27972), (727, 28068), (797, 28308), (823, 28416), (866, 28608), (877, 28641), (882, 28665), (887, 28683), (906, 28785), (919, 28863), (930, 28920), (935, 28950), (938, 28965),

Gene: Pumpkin_28 Start: 22364, Stop: 24760, Start Num: 148

Candidate Starts for Pumpkin_28:

(Start: 148 @22364 has 132 MA's), (248, 22541), (259, 22562), (342, 22709), (391, 22883), (404, 22916), (420, 22952), (479, 23045), (501, 23105), (508, 23123), (552, 23255), (566, 23300), (598, 23432), (610, 23477), (630, 23537), (672, 23651), (677, 23672), (688, 23711), (691, 23732), (695, 23747), (732, 23897), (734, 23903), (737, 23921), (752, 23975), (780, 24059), (807, 24152), (871, 24398), (912, 24614), (926, 24698), (933, 24731),

Gene: Pygmy_20 Start: 18761, Stop: 21265, Start Num: 114

Candidate Starts for Pygmy_20:

(Start: 114 @18761 has 34 MA's), (118, 18770), (196, 18914), (361, 19319), (368, 19334), (373, 19364), (375, 19370), (380, 19388), (428, 19496), (461, 19547), (508, 19658), (509, 19661), (520, 19700), (538, 19733), (555, 19799), (576, 19859), (583, 19886), (585, 19892), (677, 20198), (691, 20258), (700, 20306), (701, 20309), (704, 20330), (705, 20333), (780, 20594), (814, 20717), (815,

20720), (833, 20810), (847, 20867), (854, 20888), (885, 20948), (919, 21149), (924, 21191),

Gene: Quallification_27 Start: 22490, Stop: 24886, Start Num: 148

Candidate Starts for Quallification_27:

(Start: 148 @22490 has 132 MA's), (248, 22667), (259, 22688), (342, 22835), (382, 22976), (391, 23009), (404, 23042), (420, 23078), (479, 23171), (501, 23231), (508, 23249), (552, 23381), (566, 23426), (598, 23558), (610, 23603), (630, 23663), (672, 23777), (677, 23798), (688, 23837), (691, 23858), (695, 23873), (732, 24023), (734, 24029), (737, 24047), (752, 24101), (780, 24185), (807, 24278), (871, 24524), (912, 24740), (926, 24824), (933, 24857),

Gene: QuickMath_19 Start: 18743, Stop: 21280, Start Num: 100

Candidate Starts for QuickMath_19:

(96, 18731), (Start: 100 @18743 has 238 MA's), (113, 18764), (Start: 125 @18785 has 1 MA's), (142, 18824), (188, 18893), (194, 18902), (196, 18905), (204, 18923), (222, 18956), (233, 18971), (257, 19019), (307, 19130), (308, 19133), (325, 19163), (329, 19175), (330, 19178), (357, 19256), (362, 19280), (380, 19346), (392, 19391), (404, 19421), (407, 19427), (416, 19445), (428, 19469), (432, 19478), (456, 19511), (461, 19517), (479, 19547), (495, 19586), (498, 19598), (501, 19607), (507, 19622), (508, 19625), (548, 19736), (549, 19739), (550, 19748), (551, 19754), (554, 19769), (555, 19772), (561, 19793), (573, 19823), (576, 19835), (585, 19868), (610, 19979), (611, 19982), (621, 20009), (623, 20015), (636, 20069), (637, 20072), (674, 20159), (677, 20174), (681, 20186), (682, 20189), (697, 20255), (702, 20279), (705, 20300), (707, 20309), (719, 20351), (724, 20369), (725, 20372), (734, 20408), (737, 20426), (743, 20438), (745, 20447), (751, 20474), (776, 20543), (780, 20561), (784, 20570), (786, 20582), (797, 20618), (804, 20648), (809, 20669), (816, 20693), (823, 20729), (833, 20783), (849, 20843), (858, 20885), (880, 20963), (896, 21020), (900, 21044), (908, 21098), (912, 21146), (922, 21188), (925, 21212), (926, 21215),

Gene: Quico_19 Start: 17227, Stop: 19764, Start Num: 100

Candidate Starts for Quico_19:

(Start: 100 @17227 has 238 MA's), (113, 17248), (Start: 125 @17269 has 1 MA's), (142, 17308), (188, 17377), (194, 17386), (196, 17389), (204, 17407), (222, 17440), (233, 17455), (257, 17503), (307, 17614), (308, 17617), (325, 17647), (330, 17662), (357, 17740), (362, 17764), (380, 17830), (392, 17875), (404, 17905), (407, 17911), (416, 17929), (428, 17953), (432, 17962), (456, 17995), (461, 18001), (479, 18031), (495, 18070), (501, 18091), (507, 18106), (508, 18109), (549, 18223), (550, 18232), (551, 18238), (555, 18256), (561, 18277), (573, 18307), (576, 18319), (585, 18352), (610, 18463), (611, 18466), (621, 18493), (623, 18499), (636, 18553), (637, 18556), (674, 18643), (677, 18658), (682, 18673), (702, 18763), (705, 18784), (707, 18793), (724, 18853), (725, 18856), (732, 18886), (737, 18910), (745, 18931), (776, 19027), (780, 19045), (784, 19054), (786, 19066), (797, 19102), (804, 19132), (809, 19153), (816, 19177), (823, 19213), (833, 19267), (849, 19327), (858, 19369), (880, 19447), (896, 19504), (900, 19528), (908, 19582), (912, 19630), (922, 19672), (925, 19696), (926, 19699),

Gene: QuincyRose_26 Start: 20892, Stop: 23324, Start Num: 151

Candidate Starts for QuincyRose_26:

(Start: 151 @20892 has 97 MA's), (214, 20991), (339, 21252), (346, 21273), (416, 21480), (431, 21513), (439, 21543), (473, 21615), (482, 21639), (498, 21684), (548, 21837), (556, 21882), (561, 21894), (565, 21903), (577, 21954), (619, 22134), (624, 22149), (641, 22218), (646, 22230), (670, 22293), (682, 22335), (691, 22374), (692, 22380), (695, 22389), (700, 22410), (715, 22470), (745, 22587), (755, 22629), (783, 22701), (785, 22710), (792, 22731), (808, 22803), (813, 22824), (833, 22920), (848, 22983), (872, 23067), (882, 23109), (894, 23148),

Gene: Qyrzula_30 Start: 30056, Stop: 32776, Start Num: 75

Candidate Starts for Qyrzula_30:

(Start: 75 @30056 has 36 MA's), (94, 30110), (117, 30149), (138, 30194), (149, 30218), (152, 30221), (166, 30254), (225, 30362), (237, 30383), (238, 30386), (261, 30440), (288, 30500), (299, 30524), (313, 30560), (319, 30578), (321, 30581), (331, 30608), (336, 30629), (351, 30668), (362, 30707), (369, 30722), (381, 30776), (385, 30788), (392, 30812), (402, 30836), (408, 30848), (415, 30863), (422, 30878), (438, 30920), (446, 30938), (458, 30977), (470, 31001), (539, 31172), (556, 31250), (575, 31310), (583, 31346), (584, 31349), (599, 31427), (607, 31463), (613, 31487), (640, 31586), (656, 31625), (673, 31679), (699, 31796), (704, 31823), (722, 31886), (724, 31892), (726, 31907), (737, 31949), (765, 32036), (776, 32063), (784, 32093), (788, 32111), (795, 32132), (796, 32141), (797, 32147), (798, 32153), (801, 32165), (824, 32270), (827, 32288), (833, 32321), (853, 32408), (860, 32438), (863, 32444), (878, 32504), (900, 32597), (908, 32654), (923, 32768),

Gene: Radiance_18 Start: 17380, Stop: 19917, Start Num: 100

Candidate Starts for Radiance_18:

(96, 17368), (Start: 100 @17380 has 238 MA's), (113, 17401), (Start: 125 @17422 has 1 MA's), (142, 17461), (188, 17530), (194, 17539), (196, 17542), (204, 17560), (222, 17593), (233, 17608), (257, 17656), (303, 17761), (307, 17767), (308, 17770), (329, 17812), (330, 17815), (362, 17917), (380, 17983), (392, 18028), (404, 18058), (407, 18064), (416, 18082), (428, 18106), (432, 18115), (456, 18148), (461, 18154), (479, 18184), (498, 18235), (501, 18244), (540, 18352), (545, 18364), (548, 18373), (549, 18376), (551, 18391), (554, 18406), (555, 18409), (561, 18430), (573, 18460), (576, 18472), (585, 18505), (610, 18616), (611, 18619), (621, 18646), (623, 18652), (636, 18706), (637, 18709), (652, 18736), (677, 18811), (681, 18823), (682, 18826), (697, 18892), (701, 18913), (702, 18916), (705, 18937), (707, 18946), (724, 19006), (725, 19009), (732, 19039), (737, 19063), (743, 19075), (745, 19084), (776, 19180), (780, 19198), (784, 19207), (786, 19219), (804, 19285), (807, 19294), (809, 19306), (816, 19330), (823, 19366), (858, 19522), (896, 19657), (900, 19681), (908, 19735), (918, 19804), (925, 19849), (926, 19852),

Gene: Rakim_27 Start: 22397, Stop: 24793, Start Num: 148

Candidate Starts for Rakim_27:

(Start: 148 @22397 has 132 MA's), (248, 22574), (259, 22595), (342, 22742), (382, 22883), (391, 22916), (404, 22949), (420, 22985), (479, 23078), (501, 23138), (508, 23156), (538, 23237), (598, 23465), (610, 23510), (677, 23705), (679, 23711), (682, 23720), (691, 23765), (695, 23780), (734, 23936), (737, 23954), (740, 23963), (755, 24017), (780, 24092), (781, 24095), (832, 24305), (834, 24317), (871, 24431), (912, 24647), (926, 24731), (931, 24755), (933, 24764),

Gene: Ramen_27 Start: 20878, Stop: 23310, Start Num: 151

Candidate Starts for Ramen_27:

(Start: 151 @20878 has 97 MA's), (214, 20977), (339, 21238), (346, 21259), (416, 21466), (431, 21499), (439, 21529), (473, 21601), (482, 21625), (548, 21823), (556, 21868), (561, 21880), (565, 21889), (577, 21940), (619, 22120), (624, 22135), (641, 22204), (646, 22216), (670, 22279), (682, 22321), (691, 22360), (692, 22366), (695, 22375), (700, 22396), (715, 22456), (745, 22573), (755, 22615), (783, 22687), (785, 22696), (792, 22717), (808, 22789), (813, 22810), (833, 22906), (872, 23053), (894, 23134), (912, 23281),

Gene: Ramsey_19 Start: 17429, Stop: 19966, Start Num: 100

Candidate Starts for Ramsey_19:

(Start: 100 @17429 has 238 MA's), (113, 17450), (Start: 125 @17471 has 1 MA's), (142, 17510), (188, 17579), (194, 17588), (196, 17591), (204, 17609), (233, 17657), (307, 17816), (308, 17819), (330, 17864), (357, 17942), (362, 17966), (380, 18032), (404, 18107), (407, 18113), (416, 18131), (428, 18155), (431, 18161), (432, 18164), (456, 18197), (461, 18203), (479, 18233), (488, 18254), (498, 18284), (501, 18293), (540, 18401), (545, 18413), (548, 18422), (549, 18425), (551, 18440), (554, 18455), (555, 18458), (561, 18479), (576, 18521), (585, 18554), (610, 18665), (611, 18668), (621, 18695), (623, 18701), (636, 18755), (637, 18758), (652, 18785), (677, 18860), (681, 18872), (682, 18875), (697, 18941), (701, 18962), (702, 18965), (705, 18986), (707, 18995), (719, 19037), (724,

19055), (725, 19058), (732, 19088), (737, 19112), (743, 19124), (745, 19133), (776, 19229), (780, 19247), (784, 19256), (786, 19268), (797, 19304), (804, 19334), (807, 19343), (809, 19355), (823, 19415), (833, 19469), (849, 19529), (858, 19571), (896, 19706), (900, 19730), (908, 19784), (912, 19832), (922, 19874), (925, 19898), (926, 19901),

Gene: Rapunzel97_27 Start: 20879, Stop: 23311, Start Num: 151

Candidate Starts for Rapunzel97_27:

(Start: 151 @20879 has 97 MA's), (214, 20978), (339, 21239), (346, 21260), (416, 21467), (431, 21500), (439, 21530), (473, 21602), (482, 21626), (498, 21671), (548, 21824), (556, 21869), (561, 21881), (565, 21890), (577, 21941), (619, 22121), (624, 22136), (641, 22205), (646, 22217), (682, 22322), (691, 22361), (692, 22367), (695, 22376), (715, 22457), (726, 22505), (746, 22580), (755, 22616), (785, 22697), (792, 22718), (813, 22811), (833, 22907), (872, 23054), (882, 23096), (894, 23135), (904, 23210),

Gene: Raymond7_20 Start: 17560, Stop: 20415, Start Num: 56

Candidate Starts for Raymond7_20:

(Start: 51 @17548 has 2 MA's), (Start: 56 @17560 has 2 MA's), (62, 17572), (82, 17683), (89, 17707), (91, 17710), (93, 17719), (221, 17992), (226, 18004), (236, 18025), (247, 18049), (277, 18124), (300, 18196), (311, 18226), (326, 18262), (347, 18325), (352, 18340), (362, 18373), (392, 18448), (400, 18472), (403, 18478), (409, 18490), (430, 18532), (433, 18538), (464, 18625), (475, 18646), (488, 18670), (513, 18736), (518, 18757), (526, 18775), (539, 18808), (544, 18832), (546, 18835), (556, 18886), (572, 18922), (575, 18946), (583, 18982), (607, 19099), (611, 19117), (612, 19120), (638, 19219), (673, 19318), (675, 19324), (699, 19435), (704, 19462), (722, 19525), (724, 19531), (726, 19546), (737, 19588), (749, 19627), (765, 19675), (776, 19702), (784, 19732), (788, 19750), (796, 19780), (797, 19786), (798, 19792), (801, 19804), (824, 19909), (827, 19927), (833, 19960), (835, 19975), (860, 20077), (863, 20083), (878, 20143), (881, 20152), (884, 20161), (892, 20188), (900, 20236), (901, 20251), (903, 20257), (908, 20293), (923, 20407),

Gene: RedBird_18 Start: 17357, Stop: 19894, Start Num: 100

Candidate Starts for RedBird_18:

(Start: 100 @17357 has 238 MA's), (113, 17378), (Start: 125 @17399 has 1 MA's), (142, 17438), (188, 17507), (194, 17516), (196, 17519), (204, 17537), (233, 17585), (303, 17738), (308, 17747), (330, 17792), (361, 17891), (362, 17894), (380, 17960), (404, 18035), (407, 18041), (416, 18059), (428, 18083), (431, 18089), (432, 18092), (456, 18125), (461, 18131), (479, 18161), (488, 18182), (498, 18212), (501, 18221), (507, 18236), (508, 18239), (548, 18350), (549, 18353), (550, 18362), (551, 18368), (554, 18383), (555, 18386), (561, 18407), (573, 18437), (576, 18449), (585, 18482), (610, 18593), (611, 18596), (621, 18623), (623, 18629), (636, 18683), (637, 18686), (674, 18773), (677, 18788), (681, 18800), (682, 18803), (697, 18869), (702, 18893), (705, 18914), (707, 18923), (724, 18983), (725, 18986), (734, 19022), (737, 19040), (743, 19052), (745, 19061), (751, 19088), (773, 19145), (776, 19157), (780, 19175), (784, 19184), (786, 19196), (797, 19232), (804, 19262), (807, 19271), (809, 19283), (823, 19343), (833, 19397), (849, 19457), (858, 19499), (896, 19634), (900, 19658), (908, 19712), (912, 19760), (922, 19802), (925, 19826), (926, 19829),

Gene: Renaud18_20 Start: 17833, Stop: 20313, Start Num: 106

Candidate Starts for Renaud18_20:

(Start: 106 @17833 has 3 MA's), (111, 17839), (113, 17845), (Start: 148 @17908 has 132 MA's), (150, 17911), (167, 17938), (200, 17992), (204, 18001), (222, 18034), (241, 18067), (257, 18100), (285, 18139), (290, 18154), (308, 18190), (309, 18196), (311, 18199), (327, 18217), (330, 18229), (335, 18241), (345, 18265), (346, 18268), (389, 18412), (392, 18421), (404, 18445), (416, 18469), (428, 18493), (431, 18499), (442, 18520), (461, 18541), (479, 18571), (490, 18601), (498, 18622), (531, 18715), (538, 18730), (540, 18739), (548, 18760), (549, 18763), (556, 18805), (573, 18847), (574, 18850), (576, 18859), (583, 18886), (592, 18934), (596, 18955), (598, 18958), (609, 18994), (614, 19015), (636, 19093), (637, 19096), (666, 19150), (681, 19210), (702, 19303), (705, 19324), (716,

19360), (729, 19414), (732, 19423), (750, 19501), (755, 19519), (769, 19555), (770, 19558), (776, 19576), (777, 19579), (780, 19594), (786, 19615), (797, 19651), (799, 19663), (816, 19726), (823, 19759), (840, 19846), (852, 19894), (857, 19918), (865, 19945), (871, 19954), (879, 19993), (890, 20032), (896, 20056), (899, 20077), (912, 20173), (918, 20194), (929, 20257), (933, 20284), (936, 20293),

Gene: Rhinoforte_32 Start: 30081, Stop: 32801, Start Num: 75

Candidate Starts for Rhinoforte_32:

(Start: 75 @30081 has 36 MA's), (94, 30135), (117, 30174), (138, 30219), (149, 30243), (152, 30246), (166, 30279), (225, 30387), (237, 30408), (238, 30411), (261, 30465), (288, 30525), (299, 30549), (313, 30585), (331, 30633), (336, 30654), (351, 30693), (362, 30732), (369, 30747), (381, 30801), (385, 30813), (392, 30837), (402, 30861), (408, 30873), (415, 30888), (422, 30903), (438, 30945), (446, 30963), (458, 31002), (470, 31026), (539, 31197), (556, 31275), (575, 31335), (583, 31371), (584, 31374), (599, 31452), (607, 31488), (613, 31512), (620, 31533), (673, 31704), (675, 31710), (699, 31821), (704, 31848), (722, 31911), (724, 31917), (726, 31932), (737, 31974), (765, 32061), (776, 32088), (784, 32118), (788, 32136), (795, 32157), (796, 32166), (797, 32172), (798, 32178), (801, 32190), (824, 32295), (827, 32313), (833, 32346), (853, 32433), (860, 32463), (863, 32469), (878, 32529), (900, 32622), (901, 32637), (908, 32679), (923, 32793),

Gene: Rialto_20 Start: 17909, Stop: 20446, Start Num: 100

Candidate Starts for Rialto_20:

(Start: 100 @17909 has 238 MA's), (113, 17930), (Start: 125 @17951 has 1 MA's), (142, 17990), (188, 18059), (194, 18068), (196, 18071), (204, 18089), (233, 18137), (303, 18290), (308, 18299), (330, 18344), (361, 18443), (362, 18446), (380, 18512), (404, 18587), (407, 18593), (416, 18611), (428, 18635), (431, 18641), (432, 18644), (456, 18677), (461, 18683), (479, 18713), (488, 18734), (498, 18764), (501, 18773), (507, 18788), (508, 18791), (548, 18902), (549, 18905), (550, 18914), (551, 18920), (554, 18935), (555, 18938), (561, 18959), (573, 18989), (576, 19001), (585, 19034), (610, 19145), (611, 19148), (621, 19175), (623, 19181), (636, 19235), (637, 19238), (677, 19340), (681, 19352), (682, 19355), (697, 19421), (702, 19445), (705, 19466), (707, 19475), (724, 19535), (725, 19538), (734, 19574), (737, 19592), (743, 19604), (745, 19613), (751, 19640), (773, 19697), (776, 19709), (780, 19727), (784, 19736), (786, 19748), (797, 19784), (804, 19814), (807, 19823), (809, 19835), (823, 19895), (833, 19949), (849, 20009), (858, 20051), (896, 20186), (900, 20210), (908, 20264), (912, 20312), (922, 20354), (925, 20378), (926, 20381),

Gene: Rimmer_25 Start: 21850, Stop: 24246, Start Num: 148

Candidate Starts for Rimmer_25:

(Start: 148 @21850 has 132 MA's), (248, 22027), (259, 22048), (342, 22195), (382, 22336), (391, 22369), (404, 22402), (420, 22438), (479, 22531), (501, 22591), (508, 22609), (552, 22741), (566, 22786), (598, 22918), (610, 22963), (672, 23137), (677, 23158), (688, 23197), (691, 23218), (695, 23233), (734, 23389), (737, 23407), (752, 23461), (780, 23545), (807, 23638), (871, 23884), (912, 24100), (926, 24184), (933, 24217),

Gene: Rinkes_33 Start: 31333, Stop: 33816, Start Num: 105

Candidate Starts for Rinkes_33:

(Start: 105 @31333 has 6 MA's), (110, 31342), (147, 31429), (149, 31435), (157, 31447), (164, 31462), (191, 31504), (193, 31507), (230, 31570), (300, 31708), (327, 31747), (332, 31765), (346, 31807), (348, 31810), (376, 31909), (404, 31984), (417, 32011), (418, 32014), (428, 32035), (434, 32047), (502, 32209), (505, 32218), (507, 32224), (520, 32266), (522, 32269), (550, 32347), (558, 32380), (570, 32413), (575, 32431), (589, 32488), (603, 32557), (611, 32593), (666, 32758), (668, 32773), (686, 32839), (692, 32872), (695, 32881), (719, 32968), (733, 33028), (737, 33052), (749, 33097), (750, 33100), (755, 33118), (784, 33199), (833, 33421), (834, 33430), (909, 33754),

Gene: Riparian_30 Start: 24095, Stop: 27595, Start Num: 2

Candidate Starts for Riparian_30:

(Start: 2 @24095 has 9 MA's), (4, 24107), (Start: 5 @24119 has 1 MA's), (8, 24302), (12, 24383), (18, 24482), (20, 24506), (21, 24524), (39, 24683), (41, 24716), (52, 24764), (63, 24803), (92, 24929), (Start: 97 @24938 has 9 MA's), (183, 25124), (278, 25325), (345, 25502), (373, 25601), (382, 25634), (396, 25679), (419, 25733), (427, 25745), (467, 25811), (501, 25895), (506, 25910), (516, 25940), (551, 26045), (568, 26096), (580, 26141), (590, 26186), (600, 26231), (606, 26252), (610, 26270), (611, 26273), (613, 26279), (614, 26282), (663, 26420), (675, 26468), (676, 26474), (690, 26534), (695, 26555), (716, 26648), (729, 26708), (732, 26717), (734, 26723), (738, 26744), (789, 26909), (807, 26975), (809, 26987), (814, 27005), (816, 27011), (875, 27245), (882, 27284), (895, 27329), (899, 27359), (911, 27452), (918, 27479),

Gene: Rita_18 Start: 17410, Stop: 19947, Start Num: 100

Candidate Starts for Rita_18:

(Start: 100 @17410 has 238 MA's), (Start: 151 @17500 has 97 MA's), (188, 17560), (194, 17569), (196, 17572), (204, 17590), (233, 17638), (256, 17683), (307, 17797), (308, 17800), (325, 17830), (329, 17842), (330, 17845), (357, 17923), (362, 17947), (380, 18013), (392, 18058), (404, 18088), (407, 18094), (416, 18112), (428, 18136), (432, 18145), (456, 18178), (461, 18184), (479, 18214), (495, 18253), (498, 18265), (501, 18274), (507, 18289), (508, 18292), (548, 18403), (549, 18406), (550, 18415), (551, 18421), (554, 18436), (555, 18439), (561, 18460), (573, 18490), (576, 18502), (585, 18535), (610, 18646), (611, 18649), (621, 18676), (623, 18682), (636, 18736), (637, 18739), (677, 18841), (681, 18853), (682, 18856), (697, 18922), (702, 18946), (705, 18967), (707, 18976), (724, 19036), (725, 19039), (734, 19075), (737, 19093), (743, 19105), (745, 19114), (751, 19141), (776, 19210), (780, 19228), (784, 19237), (786, 19249), (797, 19285), (804, 19315), (809, 19336), (816, 19360), (823, 19396), (833, 19450), (849, 19510), (858, 19552), (880, 19630), (896, 19687), (900, 19711), (908, 19765), (912, 19813), (922, 19855), (925, 19879), (926, 19882),

Gene: RitaG_18 Start: 17539, Stop: 20091, Start Num: 100

Candidate Starts for RitaG_18:

(Start: 100 @17539 has 238 MA's), (113, 17560), (123, 17581), (142, 17620), (188, 17689), (194, 17698), (196, 17701), (204, 17719), (222, 17752), (233, 17767), (257, 17815), (307, 17926), (308, 17929), (326, 17962), (329, 17971), (330, 17974), (357, 18052), (373, 18118), (382, 18151), (399, 18205), (404, 18217), (428, 18265), (432, 18274), (436, 18283), (462, 18316), (488, 18358), (493, 18373), (504, 18403), (506, 18409), (507, 18412), (508, 18415), (517, 18442), (523, 18463), (538, 18496), (550, 18538), (551, 18544), (552, 18547), (554, 18559), (555, 18562), (564, 18589), (573, 18613), (576, 18625), (585, 18658), (589, 18679), (606, 18751), (611, 18772), (643, 18883), (663, 18907), (664, 18910), (669, 18934), (677, 18964), (685, 18988), (691, 19024), (692, 19030), (695, 19039), (713, 19129), (719, 19153), (720, 19168), (732, 19210), (734, 19216), (746, 19261), (777, 19357), (780, 19372), (784, 19381), (791, 19405), (807, 19468), (833, 19594), (892, 19810), (900, 19855), (912, 19957), (929, 20035),

Gene: RiverMonster_26 Start: 22039, Stop: 24435, Start Num: 148

Candidate Starts for RiverMonster_26:

(Start: 148 @22039 has 132 MA's), (248, 22216), (259, 22237), (342, 22384), (391, 22558), (404, 22591), (420, 22627), (479, 22720), (501, 22780), (508, 22798), (552, 22930), (566, 22975), (598, 23107), (610, 23152), (630, 23212), (672, 23326), (677, 23347), (688, 23386), (691, 23407), (695, 23422), (732, 23572), (734, 23578), (737, 23596), (752, 23650), (780, 23734), (807, 23827), (871, 24073), (912, 24289), (926, 24373), (933, 24406),

Gene: Rockne_18 Start: 17383, Stop: 19920, Start Num: 100

Candidate Starts for Rockne_18:

(Start: 100 @17383 has 238 MA's), (Start: 151 @17473 has 97 MA's), (188, 17533), (194, 17542), (196, 17545), (204, 17563), (233, 17611), (257, 17659), (303, 17764), (307, 17770), (308, 17773), (329, 17815), (330, 17818), (362, 17920), (380, 17986), (392, 18031), (404, 18061), (407, 18067),

(416, 18085), (428, 18109), (432, 18118), (456, 18151), (461, 18157), (488, 18208), (495, 18226), (498, 18238), (501, 18247), (507, 18262), (509, 18268), (548, 18376), (550, 18388), (551, 18394), (554, 18409), (555, 18412), (561, 18433), (573, 18463), (576, 18475), (585, 18508), (598, 18574), (610, 18619), (611, 18622), (621, 18649), (623, 18655), (636, 18709), (637, 18712), (652, 18739), (677, 18814), (681, 18826), (682, 18829), (697, 18895), (701, 18916), (702, 18919), (707, 18949), (719, 18991), (724, 19009), (725, 19012), (732, 19042), (737, 19066), (743, 19078), (745, 19087), (776, 19183), (780, 19201), (784, 19210), (786, 19222), (804, 19288), (807, 19297), (809, 19309), (823, 19369), (858, 19525), (896, 19660), (900, 19684), (908, 19738), (918, 19807), (925, 19852), (926, 19855),

Gene: RockyHorror_19 Start: 17258, Stop: 19795, Start Num: 100

Candidate Starts for RockyHorror_19:

(Start: 100 @17258 has 238 MA's), (113, 17279), (Start: 125 @17300 has 1 MA's), (142, 17339), (188, 17408), (194, 17417), (196, 17420), (204, 17438), (233, 17486), (303, 17639), (308, 17648), (330, 17693), (361, 17792), (362, 17795), (380, 17861), (404, 17936), (407, 17942), (416, 17960), (428, 17984), (431, 17990), (432, 17993), (456, 18026), (461, 18032), (479, 18062), (488, 18083), (498, 18113), (501, 18122), (507, 18137), (508, 18140), (548, 18251), (549, 18254), (550, 18263), (551, 18269), (554, 18284), (555, 18287), (561, 18308), (573, 18338), (576, 18350), (585, 18383), (610, 18494), (611, 18497), (621, 18524), (623, 18530), (636, 18584), (637, 18587), (674, 18674), (677, 18689), (681, 18701), (682, 18704), (697, 18770), (702, 18794), (705, 18815), (707, 18824), (724, 18884), (725, 18887), (734, 18923), (737, 18941), (743, 18953), (745, 18962), (751, 18989), (773, 19046), (776, 19058), (780, 19076), (784, 19085), (786, 19097), (797, 19133), (804, 19163), (807, 19172), (809, 19184), (823, 19244), (833, 19298), (849, 19358), (858, 19400), (896, 19535), (900, 19559), (908, 19613), (912, 19661), (922, 19703), (925, 19727), (926, 19730),

Gene: Rope_30 Start: 24281, Stop: 27775, Start Num: 2

Candidate Starts for Rope_30:

(Start: 2 @24281 has 9 MA's), (4, 24293), (Start: 5 @24305 has 1 MA's), (8, 24488), (12, 24569), (18, 24668), (20, 24692), (21, 24710), (39, 24869), (41, 24902), (52, 24950), (63, 24989), (92, 25115), (Start: 97 @25124 has 9 MA's), (183, 25310), (278, 25511), (345, 25688), (373, 25787), (382, 25820), (396, 25865), (401, 25877), (419, 25919), (423, 25925), (425, 25928), (467, 25997), (499, 26075), (501, 26081), (516, 26126), (517, 26129), (548, 26213), (614, 26468), (627, 26507), (675, 26654), (676, 26660), (716, 26834), (725, 26867), (729, 26888), (732, 26897), (738, 26924), (809, 27167), (839, 27311), (895, 27509), (899, 27539), (908, 27596), (911, 27632), (918, 27659), (919, 27671),

Gene: Rose5_20 Start: 18997, Stop: 21678, Start Num: 79

Candidate Starts for Rose5_20:

(Start: 79 @18997 has 19 MA's), (81, 19003), (164, 19180), (182, 19210), (215, 19273), (249, 19348), (273, 19402), (304, 19462), (306, 19468), (333, 19534), (354, 19597), (363, 19630), (365, 19633), (372, 19657), (380, 19687), (381, 19693), (395, 19741), (404, 19762), (412, 19777), (421, 19798), (437, 19837), (442, 19849), (450, 19867), (477, 19924), (488, 19942), (497, 19972), (506, 19996), (507, 19999), (525, 20044), (542, 20095), (549, 20113), (561, 20167), (579, 20239), (583, 20251), (586, 20260), (592, 20302), (599, 20332), (607, 20368), (611, 20386), (617, 20401), (618, 20407), (628, 20440), (670, 20569), (673, 20578), (691, 20659), (699, 20695), (701, 20701), (726, 20806), (729, 20815), (734, 20830), (737, 20848), (750, 20890), (782, 20986), (784, 20992), (797, 21046), (798, 21052), (801, 21064), (826, 21175), (830, 21205), (831, 21211), (853, 21307), (855, 21313), (860, 21337), (863, 21343), (864, 21349), (877, 21394), (878, 21403), (881, 21412), (893, 21451), (898, 21487), (900, 21496), (901, 21511), (913, 21607), (921, 21658), (922, 21664),

Gene: Rosebush_32 Start: 30088, Stop: 32808, Start Num: 75

Candidate Starts for Rosebush_32:

(Start: 75 @30088 has 36 MA's), (94, 30142), (117, 30181), (138, 30226), (149, 30250), (152, 30253), (166, 30286), (225, 30394), (237, 30415), (238, 30418), (261, 30472), (288, 30532), (299, 30556),

(313, 30592), (331, 30640), (336, 30661), (351, 30700), (362, 30739), (369, 30754), (381, 30808), (385, 30820), (392, 30844), (402, 30868), (408, 30880), (415, 30895), (422, 30910), (438, 30952), (446, 30970), (458, 31009), (470, 31033), (539, 31204), (556, 31282), (575, 31342), (583, 31378), (584, 31381), (599, 31459), (607, 31495), (613, 31519), (620, 31540), (673, 31711), (675, 31717), (699, 31828), (704, 31855), (722, 31918), (724, 31924), (726, 31939), (737, 31981), (765, 32068), (776, 32095), (784, 32125), (788, 32143), (795, 32164), (796, 32173), (797, 32179), (798, 32185), (801, 32197), (824, 32302), (827, 32320), (833, 32353), (853, 32440), (860, 32470), (863, 32476), (878, 32536), (900, 32629), (901, 32644), (908, 32686), (923, 32800),

Gene: Rosmarinus_27 Start: 20900, Stop: 23332, Start Num: 151

Candidate Starts for Rosmarinus_27:

(Start: 151 @20900 has 97 MA's), (214, 20999), (339, 21260), (346, 21281), (416, 21488), (431, 21521), (439, 21551), (473, 21623), (482, 21647), (548, 21845), (556, 21890), (561, 21902), (565, 21911), (577, 21962), (619, 22142), (624, 22157), (641, 22226), (646, 22238), (670, 22301), (682, 22343), (691, 22382), (692, 22388), (695, 22397), (700, 22418), (715, 22478), (745, 22595), (755, 22637), (783, 22709), (785, 22718), (792, 22739), (808, 22811), (813, 22832), (833, 22928), (872, 23075), (894, 23156), (912, 23303),

Gene: Royals2015_18 Start: 17417, Stop: 19948, Start Num: 100

Candidate Starts for Royals2015_18:

(Start: 100 @17417 has 238 MA's), (113, 17438), (Start: 151 @17507 has 97 MA's), (188, 17567), (194, 17576), (196, 17579), (204, 17597), (222, 17630), (233, 17645), (256, 17690), (307, 17804), (308, 17807), (314, 17819), (327, 17840), (329, 17849), (330, 17852), (357, 17930), (373, 17996), (382, 18029), (392, 18065), (402, 18089), (431, 18149), (432, 18152), (442, 18170), (484, 18233), (487, 18236), (495, 18254), (501, 18275), (508, 18293), (517, 18320), (523, 18341), (538, 18374), (551, 18422), (552, 18425), (554, 18437), (555, 18440), (561, 18461), (573, 18491), (576, 18503), (585, 18536), (598, 18602), (610, 18647), (611, 18650), (621, 18677), (623, 18683), (636, 18737), (637, 18740), (652, 18767), (677, 18842), (681, 18854), (682, 18857), (697, 18923), (702, 18947), (707, 18977), (719, 19019), (724, 19037), (725, 19040), (734, 19076), (737, 19094), (745, 19115), (751, 19142), (776, 19211), (780, 19229), (784, 19238), (786, 19250), (797, 19286), (809, 19337), (814, 19355), (823, 19397), (833, 19451), (858, 19553), (880, 19631), (896, 19688), (900, 19712), (908, 19766), (912, 19814), (925, 19880), (926, 19883),

Gene: Ruby_18 Start: 17371, Stop: 19908, Start Num: 100

Candidate Starts for Ruby_18:

(Start: 100 @17371 has 238 MA's), (113, 17392), (Start: 125 @17413 has 1 MA's), (142, 17452), (188, 17521), (194, 17530), (196, 17533), (204, 17551), (222, 17584), (233, 17599), (303, 17752), (308, 17761), (330, 17806), (361, 17905), (362, 17908), (380, 17974), (404, 18049), (407, 18055), (428, 18097), (431, 18103), (432, 18106), (456, 18139), (461, 18145), (479, 18175), (488, 18196), (498, 18226), (501, 18235), (507, 18250), (508, 18253), (548, 18364), (549, 18367), (550, 18376), (551, 18382), (554, 18397), (555, 18400), (561, 18421), (573, 18451), (576, 18463), (585, 18496), (610, 18607), (611, 18610), (621, 18637), (623, 18643), (636, 18697), (637, 18700), (674, 18787), (677, 18802), (681, 18814), (682, 18817), (697, 18883), (702, 18907), (705, 18928), (707, 18937), (719, 18979), (724, 18997), (725, 19000), (732, 19030), (737, 19054), (743, 19066), (745, 19075), (776, 19171), (780, 19189), (784, 19198), (786, 19210), (797, 19246), (804, 19276), (807, 19285), (809, 19297), (823, 19357), (833, 19411), (849, 19471), (858, 19513), (896, 19648), (900, 19672), (908, 19726), (912, 19774), (922, 19816), (925, 19840), (926, 19843),

Gene: Ryadel_62 Start: 36906, Stop: 39416, Start Num: 114

Candidate Starts for Ryadel_62:

(Start: 114 @36906 has 34 MA's), (128, 36939), (163, 37008), (165, 37011), (179, 37035), (196, 37059), (209, 37083), (222, 37116), (310, 37323), (315, 37335), (316, 37338), (368, 37485), (373, 37515), (380, 37539), (392, 37569), (393, 37572), (404, 37599), (416, 37623), (431, 37653), (468,

37710), (495, 37770), (498, 37782), (507, 37806), (508, 37809), (520, 37851), (554, 37947), (555, 37950), (627, 38205), (677, 38349), (691, 38409), (704, 38481), (705, 38484), (730, 38580), (780, 38754), (784, 38763), (786, 38775), (812, 38868), (815, 38880), (833, 38970), (854, 39045), (879, 39090), (917, 39291), (924, 39345), (929, 39360),

Gene: SG4_18 Start: 17548, Stop: 20085, Start Num: 100

Candidate Starts for SG4_18:

(Start: 100 @17548 has 238 MA's), (113, 17569), (Start: 125 @17590 has 1 MA's), (140, 17626), (142, 17629), (188, 17698), (194, 17707), (196, 17710), (204, 17728), (222, 17761), (233, 17776), (257, 17824), (307, 17935), (308, 17938), (325, 17968), (329, 17980), (330, 17983), (357, 18061), (362, 18085), (380, 18151), (392, 18196), (404, 18226), (407, 18232), (416, 18250), (428, 18274), (432, 18283), (456, 18316), (461, 18322), (488, 18373), (495, 18391), (498, 18403), (501, 18412), (507, 18427), (508, 18430), (548, 18541), (549, 18544), (550, 18553), (551, 18559), (554, 18574), (555, 18577), (561, 18598), (573, 18628), (576, 18640), (585, 18673), (598, 18739), (610, 18784), (611, 18787), (621, 18814), (623, 18820), (636, 18874), (637, 18877), (677, 18979), (681, 18991), (682, 18994), (697, 19060), (702, 19084), (705, 19105), (707, 19114), (724, 19174), (725, 19177), (734, 19213), (737, 19231), (743, 19243), (745, 19252), (751, 19279), (776, 19348), (780, 19366), (784, 19375), (786, 19387), (797, 19423), (804, 19453), (809, 19474), (816, 19498), (823, 19534), (833, 19588), (849, 19648), (858, 19690), (896, 19825), (900, 19849), (908, 19903), (912, 19951), (925, 20017), (926, 20020),

Gene: Saal_18 Start: 17383, Stop: 19920, Start Num: 100

Candidate Starts for Saal_18:

(Start: 100 @17383 has 238 MA's), (113, 17404), (Start: 125 @17425 has 1 MA's), (142, 17464), (188, 17533), (194, 17542), (196, 17545), (204, 17563), (233, 17611), (303, 17764), (308, 17773), (330, 17818), (357, 17896), (362, 17920), (380, 17986), (392, 18031), (404, 18061), (407, 18067), (416, 18085), (428, 18109), (432, 18118), (456, 18151), (461, 18157), (479, 18187), (495, 18226), (501, 18247), (507, 18262), (508, 18265), (549, 18379), (550, 18388), (551, 18394), (555, 18412), (561, 18433), (573, 18463), (576, 18475), (585, 18508), (610, 18619), (611, 18622), (621, 18649), (623, 18655), (636, 18709), (637, 18712), (674, 18799), (677, 18814), (682, 18829), (702, 18919), (705, 18940), (707, 18949), (724, 19009), (725, 19012), (734, 19048), (737, 19066), (743, 19078), (745, 19087), (751, 19114), (776, 19183), (780, 19201), (784, 19210), (786, 19222), (797, 19258), (804, 19288), (809, 19309), (816, 19333), (823, 19369), (833, 19423), (858, 19525), (880, 19603), (896, 19660), (900, 19684), (908, 19738), (912, 19786), (922, 19828), (928, 19861), (929, 19864),

Gene: Sabbb_19 Start: 17625, Stop: 20168, Start Num: 100

Candidate Starts for Sabbb_19:

(Start: 100 @17625 has 238 MA's), (113, 17646), (123, 17667), (142, 17706), (188, 17775), (194, 17784), (196, 17787), (204, 17805), (233, 17853), (257, 17901), (307, 18012), (308, 18015), (326, 18048), (330, 18060), (357, 18138), (373, 18204), (382, 18237), (399, 18291), (404, 18303), (431, 18357), (432, 18360), (436, 18369), (462, 18402), (486, 18441), (488, 18444), (493, 18459), (495, 18462), (504, 18489), (506, 18495), (507, 18498), (508, 18501), (517, 18528), (522, 18546), (523, 18549), (550, 18624), (554, 18645), (555, 18648), (564, 18675), (573, 18699), (585, 18744), (586, 18747), (594, 18798), (611, 18861), (614, 18870), (622, 18894), (664, 18999), (665, 19002), (677, 19053), (679, 19059), (681, 19065), (682, 19068), (691, 19113), (695, 19128), (701, 19155), (705, 19179), (719, 19230), (724, 19248), (725, 19251), (726, 19263), (743, 19317), (780, 19440), (798, 19503), (814, 19566), (828, 19641), (885, 19842), (921, 20070), (928, 20109), (929, 20112),

Gene: Sabella_32 Start: 29965, Stop: 32685, Start Num: 75

Candidate Starts for Sabella_32:

(Start: 75 @29965 has 36 MA's), (94, 30019), (117, 30058), (138, 30103), (149, 30127), (152, 30130), (166, 30163), (225, 30271), (237, 30292), (238, 30295), (261, 30349), (288, 30409), (299, 30433), (313, 30469), (319, 30487), (321, 30490), (331, 30517), (336, 30538), (351, 30577), (369, 30631),

(381, 30685), (385, 30697), (392, 30721), (402, 30745), (408, 30757), (415, 30772), (422, 30787), (438, 30829), (446, 30847), (458, 30886), (470, 30910), (539, 31081), (556, 31159), (575, 31219), (583, 31255), (584, 31258), (599, 31336), (607, 31372), (613, 31396), (620, 31417), (673, 31588), (675, 31594), (699, 31705), (704, 31732), (722, 31795), (724, 31801), (726, 31816), (737, 31858), (765, 31945), (776, 31972), (784, 32002), (788, 32020), (795, 32041), (796, 32050), (797, 32056), (798, 32062), (801, 32074), (824, 32179), (827, 32197), (833, 32230), (853, 32317), (860, 32347), (863, 32353), (878, 32413), (900, 32506), (901, 32521), (908, 32563), (923, 32677),

Gene: Saints25_27 Start: 21945, Stop: 24341, Start Num: 148

Candidate Starts for Saints25_27:

(Start: 148 @21945 has 132 MA's), (248, 22122), (259, 22143), (342, 22290), (382, 22431), (391, 22464), (404, 22497), (420, 22533), (479, 22626), (501, 22686), (508, 22704), (552, 22836), (566, 22881), (598, 23013), (610, 23058), (630, 23118), (672, 23232), (677, 23253), (688, 23292), (691, 23313), (695, 23328), (732, 23478), (734, 23484), (737, 23502), (752, 23556), (780, 23640), (807, 23733), (871, 23979), (912, 24195), (926, 24279), (933, 24312),

Gene: SamScheppers_26 Start: 21811, Stop: 24555, Start Num: 72

Candidate Starts for SamScheppers_26:

(Start: 72 @21811 has 3 MA's), (110, 21901), (121, 21922), (134, 21946), (135, 21952), (144, 21970), (175, 22036), (221, 22126), (224, 22135), (226, 22138), (236, 22159), (242, 22171), (255, 22204), (301, 22339), (319, 22387), (326, 22402), (333, 22423), (338, 22441), (347, 22465), (352, 22480), (355, 22489), (362, 22516), (370, 22522), (381, 22567), (392, 22591), (397, 22603), (400, 22612), (403, 22618), (408, 22627), (420, 22654), (430, 22672), (464, 22765), (470, 22777), (475, 22786), (513, 22876), (518, 22897), (526, 22915), (539, 22948), (546, 22975), (556, 23026), (572, 23062), (575, 23086), (583, 23122), (586, 23131), (588, 23146), (592, 23173), (599, 23203), (607, 23239), (611, 23257), (612, 23260), (616, 23269), (663, 23419), (673, 23458), (699, 23575), (704, 23602), (722, 23665), (724, 23671), (726, 23686), (737, 23728), (765, 23815), (776, 23842), (784, 23872), (788, 23890), (796, 23920), (798, 23932), (801, 23944), (825, 24052), (827, 24067), (833, 24100), (837, 24121), (853, 24187), (860, 24217), (863, 24223), (878, 24283), (884, 24301), (900, 24376), (903, 24397), (908, 24433), (923, 24547),

Gene: SamuelLPlaqson_27 Start: 20840, Stop: 23272, Start Num: 151

Candidate Starts for SamuelLPlaqson_27:

(141, 20822), (Start: 151 @20840 has 97 MA's), (171, 20888), (214, 20939), (339, 21200), (346, 21221), (429, 21458), (431, 21461), (439, 21491), (440, 21494), (473, 21563), (482, 21587), (483, 21593), (488, 21599), (498, 21632), (548, 21785), (561, 21842), (565, 21851), (577, 21902), (619, 22082), (624, 22097), (641, 22166), (646, 22178), (664, 22214), (670, 22241), (682, 22283), (691, 22322), (692, 22328), (695, 22337), (700, 22358), (715, 22418), (724, 22451), (727, 22469), (745, 22535), (755, 22577), (783, 22649), (785, 22658), (792, 22679), (808, 22751), (833, 22868), (872, 23015), (894, 23096), (904, 23171), (912, 23243),

Gene: Sandalphon_19 Start: 17954, Stop: 20491, Start Num: 100

Candidate Starts for Sandalphon_19:

(96, 17942), (Start: 100 @17954 has 238 MA's), (113, 17975), (Start: 125 @17996 has 1 MA's), (142, 18035), (188, 18104), (194, 18113), (196, 18116), (222, 18167), (233, 18182), (257, 18230), (307, 18341), (308, 18344), (325, 18374), (329, 18386), (330, 18389), (357, 18467), (362, 18491), (380, 18557), (392, 18602), (404, 18632), (407, 18638), (416, 18656), (428, 18680), (432, 18689), (456, 18722), (461, 18728), (479, 18758), (495, 18797), (498, 18809), (501, 18818), (507, 18833), (508, 18836), (548, 18947), (549, 18950), (550, 18959), (551, 18965), (554, 18980), (555, 18983), (561, 19004), (573, 19034), (576, 19046), (585, 19079), (610, 19190), (611, 19193), (621, 19220), (623, 19226), (636, 19280), (637, 19283), (677, 19385), (681, 19397), (682, 19400), (697, 19466), (702, 19490), (705, 19511), (707, 19520), (724, 19580), (725, 19583), (734, 19619), (737, 19637), (743, 19649), (745, 19658), (751, 19685), (776, 19754), (780, 19772), (784, 19781), (786, 19793), (797,

19829), (804, 19859), (809, 19880), (816, 19904), (823, 19940), (833, 19994), (849, 20054), (858, 20096), (880, 20174), (896, 20231), (900, 20255), (908, 20309), (912, 20357), (922, 20399), (925, 20423), (926, 20426),

Gene: Sarma624_19 Start: 17226, Stop: 20090, Start Num: 53

Candidate Starts for Sarma624_19:

(Start: 53 @17226 has 9 MA's), (62, 17247), (64, 17268), (69, 17307), (87, 17376), (89, 17385), (91, 17388), (116, 17439), (155, 17529), (181, 17580), (221, 17664), (226, 17676), (236, 17697), (250, 17730), (301, 17877), (326, 17940), (338, 17979), (347, 18003), (352, 18018), (355, 18027), (362, 18054), (370, 18060), (392, 18129), (400, 18150), (403, 18156), (420, 18192), (430, 18210), (464, 18303), (475, 18324), (488, 18348), (513, 18414), (518, 18435), (526, 18453), (539, 18486), (546, 18513), (556, 18564), (572, 18600), (575, 18624), (583, 18660), (586, 18669), (588, 18684), (592, 18711), (599, 18741), (607, 18777), (613, 18801), (640, 18900), (656, 18939), (668, 18978), (675, 18999), (699, 19110), (704, 19137), (712, 19167), (719, 19188), (722, 19200), (724, 19206), (737, 19263), (784, 19407), (788, 19425), (798, 19467), (801, 19479), (833, 19635), (853, 19722), (860, 19752), (863, 19758), (878, 19818), (884, 19836), (900, 19911), (903, 19932), (908, 19968), (923, 20082),

Gene: Sassafras_18 Start: 17532, Stop: 20069, Start Num: 100

Candidate Starts for Sassafras_18:

(Start: 100 @17532 has 238 MA's), (113, 17553), (Start: 125 @17574 has 1 MA's), (142, 17613), (188, 17682), (194, 17691), (196, 17694), (204, 17712), (233, 17760), (257, 17808), (307, 17919), (308, 17922), (330, 17967), (357, 18045), (362, 18069), (380, 18135), (404, 18210), (407, 18216), (416, 18234), (428, 18258), (432, 18267), (456, 18300), (461, 18306), (479, 18336), (488, 18357), (498, 18387), (501, 18396), (540, 18504), (545, 18516), (548, 18525), (549, 18528), (551, 18543), (554, 18558), (555, 18561), (561, 18582), (576, 18624), (585, 18657), (610, 18768), (611, 18771), (621, 18798), (623, 18804), (636, 18858), (637, 18861), (652, 18888), (677, 18963), (681, 18975), (682, 18978), (697, 19044), (701, 19065), (702, 19068), (705, 19089), (707, 19098), (719, 19140), (724, 19158), (725, 19161), (732, 19191), (737, 19215), (743, 19227), (745, 19236), (776, 19332), (780, 19350), (784, 19359), (786, 19371), (797, 19407), (804, 19437), (807, 19446), (809, 19458), (823, 19518), (833, 19572), (849, 19632), (858, 19674), (896, 19809), (900, 19833), (908, 19887), (912, 19935), (922, 19977), (925, 20001), (926, 20004),

Gene: Sassay_25 Start: 21788, Stop: 24184, Start Num: 148

Candidate Starts for Sassay_25:

(Start: 148 @21788 has 132 MA's), (248, 21965), (259, 21986), (342, 22133), (382, 22274), (391, 22307), (404, 22340), (420, 22376), (479, 22469), (501, 22529), (508, 22547), (552, 22679), (566, 22724), (598, 22856), (610, 22901), (630, 22961), (672, 23075), (677, 23096), (688, 23135), (691, 23156), (695, 23171), (732, 23321), (734, 23327), (737, 23345), (752, 23399), (780, 23483), (807, 23576), (871, 23822), (912, 24038), (926, 24122), (933, 24155),

Gene: SassyB_18 Start: 17445, Stop: 19982, Start Num: 100

Candidate Starts for SassyB_18:

(96, 17433), (Start: 100 @17445 has 238 MA's), (113, 17466), (Start: 125 @17487 has 1 MA's), (142, 17526), (188, 17595), (194, 17604), (196, 17607), (204, 17625), (222, 17658), (233, 17673), (307, 17832), (308, 17835), (330, 17880), (357, 17958), (362, 17982), (380, 18048), (404, 18123), (407, 18129), (416, 18147), (428, 18171), (431, 18177), (432, 18180), (456, 18213), (461, 18219), (479, 18249), (488, 18270), (498, 18300), (501, 18309), (530, 18390), (550, 18450), (551, 18456), (554, 18471), (555, 18474), (561, 18495), (576, 18537), (585, 18570), (586, 18573), (621, 18711), (623, 18717), (636, 18771), (637, 18774), (652, 18801), (677, 18876), (681, 18888), (682, 18891), (697, 18957), (702, 18981), (705, 19002), (707, 19011), (724, 19071), (725, 19074), (734, 19110), (737, 19128), (745, 19149), (776, 19245), (780, 19263), (784, 19272), (786, 19284), (797, 19320), (804, 19350), (823, 19431), (833, 19485), (858, 19587), (896, 19722), (900, 19746), (908, 19800), (912,

19848), (922, 19890), (925, 19914), (926, 19917),

Gene: Scarlett_26 Start: 20115, Stop: 22574, Start Num: 151

Candidate Starts for Scarlett_26:

(Start: 151 @20115 has 97 MA's), (171, 20163), (247, 20286), (274, 20343), (281, 20355), (330, 20448), (337, 20472), (356, 20523), (407, 20685), (448, 20796), (460, 20835), (473, 20859), (517, 20982), (540, 21054), (562, 21141), (582, 21222), (605, 21324), (619, 21378), (634, 21438), (666, 21516), (667, 21528), (670, 21537), (682, 21579), (691, 21624), (695, 21639), (718, 21726), (723, 21750), (733, 21789), (739, 21822), (755, 21879), (792, 21990), (797, 22014), (802, 22035), (814, 22086), (842, 22215), (874, 22320), (912, 22545),

Gene: SchoolBus_58 Start: 36090, Stop: 38600, Start Num: 114

Candidate Starts for SchoolBus_58:

(Start: 114 @36090 has 34 MA's), (128, 36123), (163, 36192), (165, 36195), (179, 36219), (196, 36243), (209, 36267), (222, 36300), (310, 36507), (315, 36519), (316, 36522), (368, 36669), (373, 36699), (380, 36723), (392, 36753), (393, 36756), (404, 36783), (416, 36807), (431, 36837), (468, 36894), (481, 36918), (495, 36954), (498, 36966), (507, 36990), (508, 36993), (520, 37035), (554, 37131), (555, 37134), (627, 37389), (677, 37533), (691, 37593), (704, 37665), (705, 37668), (730, 37764), (780, 37938), (786, 37959), (812, 38052), (815, 38064), (833, 38154), (854, 38229), (879, 38274), (917, 38475), (924, 38529), (929, 38544),

Gene: Schuy_59 Start: 35881, Stop: 38391, Start Num: 114

Candidate Starts for Schuy_59:

(Start: 114 @35881 has 34 MA's), (128, 35914), (163, 35983), (165, 35986), (179, 36010), (196, 36034), (209, 36058), (222, 36091), (310, 36298), (315, 36310), (316, 36313), (368, 36460), (373, 36490), (380, 36514), (392, 36544), (393, 36547), (404, 36574), (416, 36598), (431, 36628), (468, 36685), (481, 36709), (495, 36745), (498, 36757), (507, 36781), (508, 36784), (520, 36826), (554, 36922), (555, 36925), (627, 37180), (677, 37324), (691, 37384), (704, 37456), (705, 37459), (730, 37555), (780, 37729), (786, 37750), (812, 37843), (815, 37855), (833, 37945), (854, 38020), (879, 38065), (917, 38266), (924, 38320), (929, 38335),

Gene: Scottish_19 Start: 18701, Stop: 21238, Start Num: 100

Candidate Starts for Scottish_19:

(96, 18689), (Start: 100 @18701 has 238 MA's), (113, 18722), (Start: 125 @18743 has 1 MA's), (142, 18782), (188, 18851), (194, 18860), (196, 18863), (204, 18881), (233, 18929), (257, 18977), (307, 19088), (308, 19091), (330, 19136), (357, 19214), (362, 19238), (380, 19304), (392, 19349), (404, 19379), (407, 19385), (416, 19403), (428, 19427), (432, 19436), (456, 19469), (461, 19475), (479, 19505), (495, 19544), (498, 19556), (501, 19565), (507, 19580), (508, 19583), (548, 19694), (549, 19697), (550, 19706), (551, 19712), (554, 19727), (555, 19730), (561, 19751), (573, 19781), (576, 19793), (585, 19826), (610, 19937), (611, 19940), (621, 19967), (623, 19973), (636, 20027), (637, 20030), (677, 20132), (681, 20144), (682, 20147), (697, 20213), (702, 20237), (705, 20258), (707, 20267), (724, 20327), (725, 20330), (734, 20366), (737, 20384), (745, 20405), (751, 20432), (776, 20501), (780, 20519), (784, 20528), (786, 20540), (797, 20576), (809, 20627), (814, 20645), (823, 20687), (833, 20741), (858, 20843), (896, 20978), (900, 21002), (908, 21056), (918, 21125), (925, 21170), (926, 21173),

Gene: SeaLumen_19 Start: 17446, Stop: 19983, Start Num: 100

Candidate Starts for SeaLumen_19:

(Start: 100 @17446 has 238 MA's), (113, 17467), (Start: 125 @17488 has 1 MA's), (140, 17524), (142, 17527), (188, 17596), (194, 17605), (196, 17608), (204, 17626), (222, 17659), (233, 17674), (257, 17722), (303, 17827), (307, 17833), (308, 17836), (329, 17878), (330, 17881), (362, 17983), (380, 18049), (392, 18094), (404, 18124), (407, 18130), (416, 18148), (428, 18172), (432, 18181), (456, 18214), (461, 18220), (488, 18271), (495, 18289), (498, 18301), (501, 18310), (507, 18325), (509,

18331), (548, 18439), (550, 18451), (551, 18457), (554, 18472), (555, 18475), (561, 18496), (573, 18526), (576, 18538), (585, 18571), (598, 18637), (610, 18682), (611, 18685), (621, 18712), (623, 18718), (636, 18772), (637, 18775), (674, 18862), (677, 18877), (681, 18889), (682, 18892), (697, 18958), (705, 19003), (707, 19012), (724, 19072), (725, 19075), (734, 19111), (737, 19129), (743, 19141), (745, 19150), (751, 19177), (776, 19246), (780, 19264), (784, 19273), (786, 19285), (797, 19321), (804, 19351), (809, 19372), (816, 19396), (823, 19432), (833, 19486), (849, 19546), (858, 19588), (880, 19666), (896, 19723), (900, 19747), (908, 19801), (912, 19849), (922, 19891), (925, 19915), (926, 19918),

Gene: Seabastian_18 Start: 17634, Stop: 20171, Start Num: 100

Candidate Starts for Seabastian_18:

(Start: 100 @17634 has 238 MA's), (113, 17655), (Start: 125 @17676 has 1 MA's), (142, 17715), (188, 17784), (194, 17793), (196, 17796), (204, 17814), (233, 17862), (307, 18021), (308, 18024), (329, 18066), (330, 18069), (357, 18147), (361, 18168), (362, 18171), (380, 18237), (382, 18246), (392, 18282), (404, 18312), (407, 18318), (428, 18360), (431, 18366), (432, 18369), (456, 18402), (461, 18408), (479, 18438), (488, 18459), (498, 18489), (501, 18498), (540, 18606), (545, 18618), (548, 18627), (549, 18630), (550, 18639), (551, 18645), (554, 18660), (555, 18663), (561, 18684), (576, 18726), (585, 18759), (621, 18900), (623, 18906), (636, 18960), (637, 18963), (652, 18990), (677, 19065), (681, 19077), (682, 19080), (697, 19146), (701, 19167), (702, 19170), (705, 19191), (719, 19242), (724, 19260), (725, 19263), (732, 19293), (737, 19317), (743, 19329), (776, 19434), (780, 19452), (784, 19461), (786, 19473), (797, 19509), (804, 19539), (809, 19560), (816, 19584), (823, 19620), (849, 19734), (858, 19776), (880, 19854), (896, 19911), (900, 19935), (908, 19989), (912, 20037), (922, 20079), (925, 20103), (926, 20106),

Gene: Seagreen_19 Start: 17241, Stop: 19778, Start Num: 100

Candidate Starts for Seagreen_19:

(96, 17229), (Start: 100 @17241 has 238 MA's), (113, 17262), (Start: 125 @17283 has 1 MA's), (142, 17322), (188, 17391), (194, 17400), (196, 17403), (204, 17421), (222, 17454), (233, 17469), (257, 17517), (303, 17622), (307, 17628), (308, 17631), (329, 17673), (330, 17676), (357, 17754), (362, 17778), (380, 17844), (392, 17889), (404, 17919), (407, 17925), (416, 17943), (428, 17967), (432, 17976), (456, 18009), (461, 18015), (479, 18045), (495, 18084), (498, 18096), (501, 18105), (507, 18120), (508, 18123), (548, 18234), (549, 18237), (550, 18246), (551, 18252), (554, 18267), (555, 18270), (561, 18291), (573, 18321), (576, 18333), (585, 18366), (610, 18477), (611, 18480), (621, 18507), (623, 18513), (636, 18567), (637, 18570), (677, 18672), (681, 18684), (682, 18687), (697, 18753), (702, 18777), (705, 18798), (707, 18807), (724, 18867), (725, 18870), (734, 18906), (737, 18924), (743, 18936), (745, 18945), (751, 18972), (776, 19041), (780, 19059), (784, 19068), (786, 19080), (797, 19116), (804, 19146), (809, 19167), (816, 19191), (823, 19227), (833, 19281), (849, 19341), (858, 19383), (880, 19461), (896, 19518), (900, 19542), (908, 19596), (912, 19644), (922, 19686), (925, 19710), (926, 19713),

Gene: Sejanus_27 Start: 26927, Stop: 29680, Start Num: 74

Candidate Starts for Sejanus_27:

(60, 26834), (Start: 74 @26927 has 3 MA's), (104, 27005), (126, 27041), (138, 27068), (149, 27092), (189, 27161), (220, 27230), (232, 27254), (238, 27266), (328, 27500), (333, 27512), (336, 27527), (351, 27563), (362, 27605), (378, 27659), (392, 27707), (403, 27737), (405, 27740), (448, 27848), (470, 27902), (479, 27917), (486, 27932), (513, 28001), (518, 28022), (526, 28040), (539, 28073), (544, 28097), (546, 28100), (556, 28151), (572, 28187), (575, 28211), (583, 28247), (586, 28256), (588, 28271), (592, 28298), (599, 28328), (607, 28364), (611, 28382), (612, 28385), (616, 28394), (652, 28520), (668, 28568), (699, 28700), (704, 28727), (719, 28778), (722, 28790), (724, 28796), (737, 28853), (749, 28892), (765, 28940), (776, 28967), (784, 28997), (788, 29015), (796, 29045), (798, 29057), (801, 29069), (825, 29177), (827, 29192), (833, 29225), (837, 29246), (853, 29312), (860, 29342), (863, 29348), (878, 29408), (881, 29417), (884, 29426), (900, 29501), (901, 29516), (903, 29522), (908, 29558), (923, 29672),

Gene: Send513_30 Start: 24637, Stop: 28131, Start Num: 2

Candidate Starts for Send513_30:

(Start: 2 @24637 has 9 MA's), (4, 24649), (Start: 5 @24661 has 1 MA's), (8, 24844), (12, 24925), (18, 25024), (20, 25048), (21, 25066), (39, 25225), (41, 25258), (52, 25306), (63, 25345), (92, 25471), (Start: 97 @25480 has 9 MA's), (183, 25666), (278, 25867), (345, 26044), (373, 26143), (382, 26176), (396, 26221), (401, 26233), (419, 26275), (423, 26281), (425, 26284), (467, 26353), (499, 26431), (501, 26437), (516, 26482), (517, 26485), (548, 26569), (614, 26824), (627, 26863), (675, 27010), (676, 27016), (716, 27190), (725, 27223), (729, 27244), (732, 27253), (738, 27280), (809, 27523), (839, 27667), (895, 27865), (899, 27895), (908, 27952), (911, 27988), (918, 28015), (919, 28027),

Gene: Shaboozey_30 Start: 25923, Stop: 28418, Start Num: 100

Candidate Starts for Shaboozey_30:

(Start: 100 @25923 has 238 MA's), (204, 26118), (222, 26154), (233, 26169), (285, 26256), (290, 26271), (308, 26307), (309, 26313), (330, 26346), (335, 26358), (389, 26529), (392, 26538), (404, 26562), (431, 26616), (456, 26652), (461, 26658), (479, 26688), (490, 26718), (498, 26739), (501, 26748), (507, 26763), (531, 26832), (555, 26913), (556, 26922), (566, 26943), (567, 26946), (576, 26976), (586, 27012), (594, 27063), (596, 27072), (598, 27075), (606, 27102), (609, 27111), (614, 27132), (636, 27210), (637, 27213), (669, 27285), (679, 27321), (681, 27327), (690, 27369), (691, 27375), (701, 27417), (702, 27420), (705, 27441), (706, 27447), (707, 27450), (716, 27480), (750, 27621), (752, 27630), (755, 27639), (767, 27672), (776, 27696), (777, 27699), (780, 27714), (786, 27735), (797, 27771), (798, 27777), (799, 27783), (805, 27804), (812, 27831), (840, 27966), (857, 28038), (860, 28044), (871, 28062), (896, 28161), (912, 28278), (927, 28359), (929, 28362), (933, 28389),

Gene: ShamWow_26 Start: 22284, Stop: 24680, Start Num: 148

Candidate Starts for ShamWow_26:

(Start: 148 @22284 has 132 MA's), (248, 22461), (259, 22482), (342, 22629), (382, 22770), (391, 22803), (404, 22836), (420, 22872), (479, 22965), (501, 23025), (508, 23043), (556, 23199), (566, 23220), (594, 23340), (598, 23352), (610, 23397), (677, 23592), (682, 23607), (691, 23652), (695, 23667), (734, 23823), (737, 23841), (740, 23850), (780, 23979), (781, 23982), (832, 24192), (834, 24204), (871, 24318), (912, 24534), (926, 24618), (931, 24642), (933, 24651),

Gene: Shauna1_18 Start: 17450, Stop: 19927, Start Num: 100

Candidate Starts for Shauna1_18:

(98, 17438), (Start: 100 @17450 has 238 MA's), (113, 17471), (Start: 125 @17492 has 1 MA's), (143, 17531), (188, 17600), (194, 17609), (196, 17612), (204, 17630), (222, 17663), (233, 17678), (285, 17765), (290, 17780), (308, 17816), (309, 17822), (330, 17855), (335, 17867), (389, 18038), (392, 18047), (404, 18071), (431, 18125), (456, 18161), (461, 18167), (479, 18197), (490, 18227), (498, 18248), (501, 18257), (531, 18341), (551, 18404), (555, 18422), (556, 18431), (566, 18452), (567, 18455), (573, 18473), (576, 18485), (583, 18512), (586, 18521), (594, 18572), (596, 18581), (598, 18584), (606, 18611), (609, 18620), (614, 18641), (636, 18719), (637, 18722), (679, 18830), (681, 18836), (691, 18884), (701, 18926), (702, 18929), (705, 18950), (706, 18956), (707, 18959), (716, 18989), (750, 19130), (755, 19148), (767, 19181), (776, 19205), (777, 19208), (780, 19223), (786, 19244), (797, 19280), (798, 19286), (805, 19313), (812, 19340), (840, 19475), (852, 19523), (857, 19547), (871, 19571), (896, 19670), (899, 19691), (901, 19709), (912, 19787), (918, 19808), (929, 19871), (931, 19889), (936, 19907),

Gene: ShereKhan_28 Start: 23267, Stop: 25663, Start Num: 148

Candidate Starts for ShereKhan_28:

(Start: 148 @23267 has 132 MA's), (248, 23444), (259, 23465), (342, 23612), (382, 23753), (391, 23786), (404, 23819), (420, 23855), (479, 23948), (501, 24008), (508, 24026), (552, 24158), (566, 24203), (598, 24335), (610, 24380), (630, 24440), (672, 24554), (677, 24575), (688, 24614), (691,

24635), (695, 24650), (732, 24800), (734, 24806), (737, 24824), (752, 24878), (780, 24962), (807, 25055), (871, 25301), (912, 25517), (926, 25601), (933, 25634),

Gene: ShiLan_18 Start: 17405, Stop: 19957, Start Num: 100

Candidate Starts for ShiLan_18:

(Start: 100 @17405 has 238 MA's), (142, 17486), (188, 17555), (194, 17564), (196, 17567), (204, 17585), (233, 17633), (256, 17678), (307, 17792), (308, 17795), (314, 17807), (326, 17828), (329, 17837), (330, 17840), (346, 17888), (357, 17918), (373, 17984), (382, 18017), (392, 18053), (402, 18077), (431, 18137), (432, 18140), (442, 18158), (486, 18221), (488, 18224), (495, 18242), (501, 18263), (508, 18281), (517, 18308), (523, 18329), (538, 18362), (550, 18404), (551, 18410), (552, 18413), (555, 18428), (564, 18455), (566, 18458), (573, 18479), (576, 18491), (585, 18524), (606, 18617), (636, 18725), (643, 18749), (652, 18755), (663, 18773), (664, 18776), (669, 18800), (677, 18830), (685, 18854), (691, 18890), (692, 18896), (695, 18905), (701, 18932), (713, 18995), (719, 19019), (720, 19034), (732, 19076), (746, 19127), (777, 19223), (780, 19238), (784, 19247), (791, 19271), (807, 19334), (816, 19370), (892, 19676), (900, 19721), (912, 19823),

Gene: ShiaSurprise_27 Start: 20912, Stop: 23344, Start Num: 151

Candidate Starts for ShiaSurprise_27:

(Start: 151 @20912 has 97 MA's), (214, 21011), (339, 21272), (346, 21293), (416, 21500), (431, 21533), (439, 21563), (473, 21635), (482, 21659), (548, 21857), (556, 21902), (561, 21914), (565, 21923), (577, 21974), (619, 22154), (624, 22169), (641, 22238), (646, 22250), (670, 22313), (682, 22355), (691, 22394), (692, 22400), (695, 22409), (700, 22430), (715, 22490), (745, 22607), (755, 22649), (783, 22721), (785, 22730), (792, 22751), (808, 22823), (813, 22844), (833, 22940), (872, 23087), (894, 23168), (912, 23315),

Gene: Shida_58 Start: 35788, Stop: 38298, Start Num: 114

Candidate Starts for Shida_58:

(Start: 114 @35788 has 34 MA's), (128, 35821), (163, 35890), (165, 35893), (179, 35917), (196, 35941), (209, 35965), (222, 35998), (310, 36205), (315, 36217), (316, 36220), (368, 36367), (373, 36397), (380, 36421), (392, 36451), (393, 36454), (404, 36481), (416, 36505), (431, 36535), (468, 36592), (495, 36652), (498, 36664), (507, 36688), (508, 36691), (520, 36733), (554, 36829), (555, 36832), (627, 37087), (677, 37231), (691, 37291), (704, 37363), (705, 37366), (730, 37462), (780, 37636), (786, 37657), (812, 37750), (815, 37762), (833, 37852), (854, 37927), (879, 37972), (917, 38173), (924, 38227), (929, 38242),

Gene: Shipwreck_20 Start: 18739, Stop: 21243, Start Num: 114

Candidate Starts for Shipwreck_20:

(Start: 114 @18739 has 34 MA's), (196, 18892), (361, 19297), (368, 19312), (373, 19342), (375, 19348), (380, 19366), (428, 19474), (461, 19525), (508, 19636), (509, 19639), (520, 19678), (538, 19711), (555, 19777), (576, 19837), (583, 19864), (585, 19870), (677, 20176), (691, 20236), (700, 20284), (701, 20287), (704, 20308), (705, 20311), (780, 20572), (814, 20695), (815, 20698), (833, 20788), (847, 20845), (854, 20866), (885, 20926), (919, 21127), (924, 21169),

Gene: ShowerHandel_18 Start: 17406, Stop: 19958, Start Num: 100

Candidate Starts for ShowerHandel_18:

(Start: 100 @17406 has 238 MA's), (142, 17487), (188, 17556), (194, 17565), (196, 17568), (204, 17586), (233, 17634), (256, 17679), (307, 17793), (308, 17796), (314, 17808), (326, 17829), (329, 17838), (330, 17841), (346, 17889), (357, 17919), (373, 17985), (382, 18018), (392, 18054), (402, 18078), (431, 18138), (432, 18141), (442, 18159), (486, 18222), (488, 18225), (495, 18243), (501, 18264), (508, 18282), (517, 18309), (523, 18330), (538, 18363), (550, 18405), (551, 18411), (552, 18414), (555, 18429), (564, 18456), (566, 18459), (573, 18480), (576, 18492), (585, 18525), (606, 18618), (636, 18726), (643, 18750), (652, 18756), (663, 18774), (664, 18777), (669, 18801), (677, 18831), (685, 18855), (691, 18891), (692, 18897), (695, 18906), (701, 18933), (713, 18996), (719,

19020), (720, 19035), (732, 19077), (746, 19128), (777, 19224), (780, 19239), (784, 19248), (791, 19272), (807, 19335), (816, 19371), (892, 19677), (900, 19722), (912, 19824),

Gene: ShroomBoi_18 Start: 17435, Stop: 19912, Start Num: 100

Candidate Starts for ShroomBoi_18:

(Start: 100 @17435 has 238 MA's), (113, 17456), (Start: 125 @17477 has 1 MA's), (143, 17516), (188, 17585), (194, 17594), (196, 17597), (204, 17615), (233, 17663), (285, 17750), (290, 17765), (308, 17801), (309, 17807), (330, 17840), (335, 17852), (389, 18023), (392, 18032), (404, 18056), (431, 18110), (456, 18146), (461, 18152), (479, 18182), (490, 18212), (498, 18233), (501, 18242), (507, 18257), (531, 18326), (555, 18407), (556, 18416), (567, 18440), (576, 18470), (586, 18506), (594, 18557), (596, 18566), (598, 18569), (606, 18596), (609, 18605), (614, 18626), (636, 18704), (679, 18815), (681, 18821), (691, 18869), (701, 18911), (702, 18914), (705, 18935), (706, 18941), (707, 18944), (716, 18974), (750, 19115), (755, 19133), (767, 19166), (776, 19190), (777, 19193), (780, 19208), (786, 19229), (797, 19265), (798, 19271), (799, 19277), (805, 19298), (812, 19325), (840, 19460), (852, 19508), (857, 19532), (860, 19538), (871, 19556), (896, 19655), (912, 19772), (927, 19853), (929, 19856), (933, 19883),

Gene: SiSi_18 Start: 17389, Stop: 19926, Start Num: 100

Candidate Starts for SiSi_18:

(96, 17377), (Start: 100 @17389 has 238 MA's), (113, 17410), (Start: 125 @17431 has 1 MA's), (142, 17470), (188, 17539), (194, 17548), (196, 17551), (204, 17569), (222, 17602), (233, 17617), (257, 17665), (307, 17776), (308, 17779), (325, 17809), (329, 17821), (330, 17824), (357, 17902), (362, 17926), (380, 17992), (392, 18037), (404, 18067), (407, 18073), (416, 18091), (428, 18115), (432, 18124), (456, 18157), (461, 18163), (479, 18193), (495, 18232), (498, 18244), (501, 18253), (507, 18268), (508, 18271), (548, 18382), (550, 18394), (551, 18400), (554, 18415), (555, 18418), (561, 18439), (573, 18469), (576, 18481), (585, 18514), (598, 18580), (610, 18625), (611, 18628), (621, 18655), (623, 18661), (636, 18715), (637, 18718), (652, 18745), (677, 18820), (681, 18832), (682, 18835), (697, 18901), (702, 18925), (707, 18955), (719, 18997), (724, 19015), (725, 19018), (734, 19054), (737, 19072), (745, 19093), (751, 19120), (776, 19189), (780, 19207), (784, 19216), (786, 19228), (797, 19264), (809, 19315), (814, 19333), (823, 19375), (833, 19429), (849, 19489), (858, 19531), (880, 19609), (896, 19666), (900, 19690), (908, 19744), (912, 19792), (925, 19858), (926, 19861),

Gene: SilverChicken_24 Start: 17093, Stop: 19555, Start Num: 143

Candidate Starts for SilverChicken_24:

(137, 17084), (143, 17093), (186, 17153), (205, 17189), (231, 17234), (239, 17246), (259, 17288), (276, 17315), (283, 17333), (287, 17345), (303, 17378), (305, 17381), (330, 17438), (334, 17447), (345, 17483), (361, 17537), (373, 17582), (380, 17606), (382, 17615), (389, 17642), (432, 17738), (442, 17756), (456, 17771), (461, 17777), (471, 17795), (486, 17819), (504, 17867), (507, 17876), (508, 17879), (523, 17927), (530, 17942), (543, 17978), (545, 17981), (551, 18008), (552, 18011), (554, 18023), (561, 18047), (567, 18059), (573, 18077), (576, 18089), (585, 18122), (589, 18143), (606, 18215), (611, 18236), (643, 18347), (652, 18353), (663, 18371), (664, 18374), (669, 18398), (677, 18428), (685, 18452), (691, 18488), (692, 18494), (695, 18503), (701, 18530), (713, 18593), (719, 18617), (720, 18632), (732, 18674), (734, 18680), (746, 18725), (777, 18821), (780, 18836), (784, 18845), (791, 18869), (807, 18932), (816, 18968), (833, 19058), (892, 19274), (899, 19316), (900, 19319), (912, 19421),

Gene: Silverleaf_20 Start: 18997, Stop: 21678, Start Num: 79

Candidate Starts for Silverleaf_20:

(Start: 79 @18997 has 19 MA's), (81, 19003), (164, 19180), (182, 19210), (215, 19273), (249, 19348), (273, 19402), (304, 19462), (306, 19468), (333, 19534), (354, 19597), (363, 19630), (365, 19633), (372, 19657), (378, 19681), (380, 19687), (381, 19693), (395, 19741), (404, 19762), (412, 19777), (421, 19798), (437, 19837), (442, 19849), (450, 19867), (477, 19924), (488, 19942), (497, 19972),

(506, 19996), (507, 19999), (525, 20044), (542, 20095), (549, 20113), (561, 20167), (579, 20239), (583, 20251), (586, 20260), (592, 20302), (599, 20332), (607, 20368), (611, 20386), (617, 20401), (618, 20407), (628, 20440), (670, 20569), (673, 20578), (691, 20659), (699, 20695), (701, 20701), (726, 20806), (729, 20815), (734, 20830), (737, 20848), (750, 20890), (782, 20986), (784, 20992), (797, 21046), (798, 21052), (801, 21064), (826, 21175), (830, 21205), (831, 21211), (837, 21241), (853, 21307), (855, 21313), (860, 21337), (863, 21343), (864, 21349), (877, 21394), (878, 21403), (881, 21412), (893, 21451), (898, 21487), (900, 21496), (901, 21511), (913, 21607), (921, 21658), (922, 21664),

Gene: Simpliphy_27 Start: 22029, Stop: 24425, Start Num: 148

Candidate Starts for Simpliphy_27:

(Start: 148 @22029 has 132 MA's), (248, 22206), (259, 22227), (342, 22374), (391, 22548), (404, 22581), (420, 22617), (479, 22710), (501, 22770), (508, 22788), (552, 22920), (566, 22965), (598, 23097), (610, 23142), (630, 23202), (672, 23316), (677, 23337), (688, 23376), (691, 23397), (695, 23412), (732, 23562), (734, 23568), (737, 23586), (752, 23640), (780, 23724), (807, 23817), (871, 24063), (912, 24279), (926, 24363), (933, 24396),

Gene: SimranZ1_19 Start: 17257, Stop: 19794, Start Num: 100

Candidate Starts for SimranZ1_19:

(Start: 100 @17257 has 238 MA's), (113, 17278), (Start: 125 @17299 has 1 MA's), (142, 17338), (188, 17407), (194, 17416), (196, 17419), (204, 17437), (233, 17485), (307, 17644), (308, 17647), (325, 17677), (329, 17689), (330, 17692), (357, 17770), (362, 17794), (380, 17860), (404, 17935), (407, 17941), (416, 17959), (428, 17983), (432, 17992), (456, 18025), (461, 18031), (479, 18061), (488, 18082), (495, 18100), (498, 18112), (501, 18121), (514, 18154), (548, 18250), (549, 18253), (550, 18262), (551, 18268), (554, 18283), (555, 18286), (561, 18307), (576, 18349), (585, 18382), (598, 18448), (610, 18493), (611, 18496), (621, 18523), (623, 18529), (636, 18583), (637, 18586), (652, 18613), (664, 18634), (677, 18688), (681, 18700), (682, 18703), (697, 18769), (702, 18793), (705, 18814), (707, 18823), (719, 18865), (724, 18883), (725, 18886), (734, 18922), (737, 18940), (743, 18952), (745, 18961), (751, 18988), (773, 19045), (776, 19057), (780, 19075), (784, 19084), (786, 19096), (797, 19132), (804, 19162), (809, 19183), (816, 19207), (823, 19243), (858, 19399), (896, 19534), (900, 19558), (908, 19612), (912, 19660), (925, 19726), (926, 19729),

Gene: SirDuracell_25 Start: 20950, Stop: 23346, Start Num: 148

Candidate Starts for SirDuracell_25:

(Start: 148 @20950 has 132 MA's), (248, 21127), (259, 21148), (342, 21295), (382, 21436), (391, 21469), (404, 21502), (420, 21538), (479, 21631), (501, 21691), (508, 21709), (538, 21790), (598, 22018), (610, 22063), (677, 22258), (679, 22264), (682, 22273), (691, 22318), (695, 22333), (734, 22489), (737, 22507), (740, 22516), (780, 22645), (781, 22648), (832, 22858), (834, 22870), (871, 22984), (912, 23200), (926, 23284), (931, 23308), (933, 23317),

Gene: SirHarley_29 Start: 24248, Stop: 26518, Start Num: 291

Candidate Starts for SirHarley_29:

(Start: 291 @24248 has 22 MA's), (340, 24383), (344, 24392), (392, 24566), (394, 24572), (399, 24584), (465, 24737), (474, 24752), (482, 24767), (594, 25148), (595, 25154), (608, 25199), (631, 25286), (680, 25412), (694, 25487), (696, 25493), (705, 25541), (710, 25571), (717, 25595), (764, 25784), (775, 25811), (789, 25859), (806, 25931), (816, 25970), (818, 25991), (821, 26006), (825, 26024), (829, 26054), (850, 26138), (907, 26339), (912, 26381), (937, 26507),

Gene: SirPhilip_26 Start: 19755, Stop: 22217, Start Num: 151

Candidate Starts for SirPhilip_26:

(Start: 151 @19755 has 97 MA's), (161, 19782), (171, 19803), (247, 19926), (254, 19944), (275, 19986), (281, 19995), (330, 20088), (337, 20112), (482, 20523), (562, 20784), (573, 20823), (581, 20862), (582, 20865), (619, 21024), (624, 21039), (644, 21117), (648, 21123), (670, 21183), (682,

21225), (691, 21270), (692, 21276), (695, 21285), (699, 21306), (724, 21402), (728, 21423), (739, 21471), (749, 21507), (761, 21546), (783, 21597), (792, 21627), (808, 21699), (830, 21801), (833, 21816), (859, 21924), (869, 21954), (909, 22146), (914, 22191),

Gene: Slim_19 Start: 17189, Stop: 19726, Start Num: 100

Candidate Starts for Slim_19:

(Start: 100 @17189 has 238 MA's), (113, 17210), (Start: 125 @17231 has 1 MA's), (142, 17270), (188, 17339), (194, 17348), (196, 17351), (204, 17369), (233, 17417), (303, 17570), (308, 17579), (330, 17624), (361, 17723), (362, 17726), (380, 17792), (404, 17867), (407, 17873), (416, 17891), (428, 17915), (431, 17921), (432, 17924), (456, 17957), (461, 17963), (479, 17993), (488, 18014), (498, 18044), (501, 18053), (507, 18068), (508, 18071), (548, 18182), (549, 18185), (550, 18194), (551, 18200), (554, 18215), (555, 18218), (561, 18239), (573, 18269), (576, 18281), (585, 18314), (610, 18425), (611, 18428), (621, 18455), (623, 18461), (636, 18515), (637, 18518), (677, 18620), (681, 18632), (682, 18635), (697, 18701), (702, 18725), (705, 18746), (707, 18755), (724, 18815), (725, 18818), (734, 18854), (737, 18872), (743, 18884), (745, 18893), (751, 18920), (773, 18977), (776, 18989), (780, 19007), (784, 19016), (786, 19028), (797, 19064), (804, 19094), (807, 19103), (809, 19115), (823, 19175), (833, 19229), (849, 19289), (858, 19331), (896, 19466), (900, 19490), (908, 19544), (912, 19592), (922, 19634), (925, 19658), (926, 19661),

Gene: Slimphazie_27 Start: 20879, Stop: 23311, Start Num: 151

Candidate Starts for Slimphazie_27:

(Start: 151 @20879 has 97 MA's), (214, 20978), (339, 21239), (346, 21260), (416, 21467), (431, 21500), (439, 21530), (473, 21602), (482, 21626), (498, 21671), (548, 21824), (556, 21869), (561, 21881), (565, 21890), (577, 21941), (619, 22121), (624, 22136), (641, 22205), (646, 22217), (682, 22322), (691, 22361), (692, 22367), (695, 22376), (715, 22457), (726, 22505), (746, 22580), (755, 22616), (785, 22697), (792, 22718), (813, 22811), (833, 22907), (872, 23054), (882, 23096), (894, 23135), (904, 23210),

Gene: Smooch_61 Start: 37810, Stop: 40320, Start Num: 114

Candidate Starts for Smooch_61:

(Start: 114 @37810 has 34 MA's), (128, 37843), (163, 37912), (165, 37915), (179, 37939), (196, 37963), (209, 37987), (222, 38020), (310, 38227), (315, 38239), (316, 38242), (368, 38389), (373, 38419), (380, 38443), (392, 38473), (393, 38476), (404, 38503), (416, 38527), (431, 38557), (468, 38614), (495, 38674), (498, 38686), (507, 38710), (508, 38713), (520, 38755), (554, 38851), (555, 38854), (610, 39058), (627, 39109), (677, 39253), (691, 39313), (704, 39385), (705, 39388), (730, 39484), (780, 39658), (786, 39679), (812, 39772), (815, 39784), (833, 39874), (854, 39949), (879, 39994), (917, 40195), (924, 40249), (929, 40264),

Gene: SophKB_26 Start: 22283, Stop: 24679, Start Num: 148

Candidate Starts for SophKB_26:

(Start: 148 @22283 has 132 MA's), (248, 22460), (259, 22481), (342, 22628), (382, 22769), (391, 22802), (404, 22835), (420, 22871), (479, 22964), (501, 23024), (508, 23042), (552, 23174), (566, 23219), (598, 23351), (610, 23396), (630, 23456), (672, 23570), (677, 23591), (688, 23630), (691, 23651), (695, 23666), (732, 23816), (734, 23822), (737, 23840), (752, 23894), (780, 23978), (807, 24071), (871, 24317), (912, 24533), (926, 24617), (933, 24650),

Gene: Sotrice96_26 Start: 22239, Stop: 24635, Start Num: 148

Candidate Starts for Sotrice96_26:

(Start: 148 @22239 has 132 MA's), (248, 22416), (259, 22437), (342, 22584), (382, 22725), (391, 22758), (404, 22791), (420, 22827), (479, 22920), (501, 22980), (508, 22998), (538, 23079), (598, 23307), (610, 23352), (677, 23547), (679, 23553), (682, 23562), (691, 23607), (695, 23622), (734, 23778), (737, 23796), (740, 23805), (780, 23934), (781, 23937), (832, 24147), (834, 24159), (871, 24273), (912, 24489), (926, 24573), (931, 24597), (933, 24606),

Gene: Soul22_24 Start: 17091, Stop: 19640, Start Num: 80

Candidate Starts for Soul22_24:

(77, 17082), (Start: 80 @17091 has 7 MA's), (Start: 100 @17151 has 238 MA's), (122, 17187), (177, 17286), (257, 17427), (285, 17466), (290, 17481), (308, 17517), (309, 17523), (311, 17526), (327, 17544), (335, 17568), (345, 17592), (346, 17595), (389, 17739), (392, 17748), (404, 17772), (416, 17796), (428, 17820), (431, 17826), (442, 17847), (461, 17868), (479, 17898), (490, 17928), (498, 17949), (531, 18042), (538, 18057), (540, 18066), (548, 18087), (549, 18090), (556, 18132), (573, 18174), (574, 18177), (576, 18186), (583, 18213), (586, 18222), (592, 18261), (596, 18282), (598, 18285), (609, 18321), (614, 18342), (636, 18420), (637, 18423), (666, 18477), (681, 18537), (700, 18624), (702, 18630), (704, 18648), (705, 18651), (716, 18687), (729, 18741), (732, 18750), (750, 18828), (755, 18846), (769, 18882), (770, 18885), (776, 18903), (777, 18906), (780, 18921), (797, 18978), (799, 18990), (816, 19053), (823, 19086), (840, 19173), (852, 19221), (857, 19245), (865, 19272), (871, 19281), (879, 19320), (890, 19359), (896, 19383), (899, 19404), (912, 19500), (918, 19521), (929, 19584), (933, 19611), (936, 19620),

Gene: Sparkdehlily_18 Start: 17429, Stop: 19966, Start Num: 100

Candidate Starts for Sparkdehlily_18:

(Start: 100 @17429 has 238 MA's), (113, 17450), (Start: 125 @17471 has 1 MA's), (142, 17510), (188, 17579), (194, 17588), (196, 17591), (204, 17609), (233, 17657), (303, 17810), (308, 17819), (330, 17864), (357, 17942), (362, 17966), (380, 18032), (392, 18077), (404, 18107), (407, 18113), (416, 18131), (428, 18155), (432, 18164), (456, 18197), (461, 18203), (479, 18233), (495, 18272), (501, 18293), (507, 18308), (508, 18311), (549, 18425), (550, 18434), (551, 18440), (555, 18458), (561, 18479), (573, 18509), (576, 18521), (585, 18554), (610, 18665), (611, 18668), (621, 18695), (623, 18701), (636, 18755), (637, 18758), (674, 18845), (677, 18860), (682, 18875), (702, 18965), (705, 18986), (707, 18995), (724, 19055), (725, 19058), (734, 19094), (737, 19112), (743, 19124), (745, 19133), (751, 19160), (776, 19229), (780, 19247), (784, 19256), (786, 19268), (797, 19304), (804, 19334), (809, 19355), (816, 19379), (823, 19415), (833, 19469), (858, 19571), (880, 19649), (896, 19706), (900, 19730), (908, 19784), (912, 19832), (922, 19874), (928, 19907), (929, 19910),

Gene: Spartacus_19 Start: 17481, Stop: 20018, Start Num: 100

Candidate Starts for Spartacus_19:

(Start: 100 @17481 has 238 MA's), (Start: 151 @17571 has 97 MA's), (188, 17631), (194, 17640), (196, 17643), (204, 17661), (222, 17694), (233, 17709), (257, 17757), (307, 17868), (308, 17871), (325, 17901), (330, 17916), (357, 17994), (380, 18084), (392, 18129), (404, 18159), (407, 18165), (416, 18183), (428, 18207), (432, 18216), (456, 18249), (461, 18255), (479, 18285), (495, 18324), (498, 18336), (501, 18345), (507, 18360), (508, 18363), (548, 18474), (549, 18477), (550, 18486), (551, 18492), (554, 18507), (555, 18510), (561, 18531), (573, 18561), (576, 18573), (585, 18606), (610, 18717), (611, 18720), (621, 18747), (623, 18753), (636, 18807), (637, 18810), (674, 18897), (677, 18912), (681, 18924), (682, 18927), (697, 18993), (705, 19038), (707, 19047), (724, 19107), (725, 19110), (734, 19146), (737, 19164), (743, 19176), (745, 19185), (751, 19212), (776, 19281), (780, 19299), (784, 19308), (786, 19320), (797, 19356), (804, 19386), (809, 19407), (816, 19431), (823, 19467), (833, 19521), (849, 19581), (858, 19623), (880, 19701), (896, 19758), (900, 19782), (908, 19836), (912, 19884), (922, 19926), (925, 19950), (926, 19953),

Gene: Spikelee_19 Start: 17223, Stop: 19760, Start Num: 100

Candidate Starts for Spikelee_19:

(Start: 100 @17223 has 238 MA's), (113, 17244), (Start: 125 @17265 has 1 MA's), (142, 17304), (188, 17373), (194, 17382), (196, 17385), (204, 17403), (233, 17451), (303, 17604), (308, 17613), (330, 17658), (361, 17757), (362, 17760), (380, 17826), (404, 17901), (407, 17907), (416, 17925), (428, 17949), (431, 17955), (432, 17958), (456, 17991), (461, 17997), (479, 18027), (488, 18048), (498, 18078), (501, 18087), (507, 18102), (508, 18105), (548, 18216), (549, 18219), (550, 18228), (551, 18234), (554, 18249), (555, 18252), (561, 18273), (573, 18303), (576, 18315), (585, 18348), (610,

18459), (611, 18462), (621, 18489), (623, 18495), (636, 18549), (637, 18552), (674, 18639), (677, 18654), (681, 18666), (682, 18669), (697, 18735), (702, 18759), (705, 18780), (707, 18789), (724, 18849), (725, 18852), (734, 18888), (737, 18906), (743, 18918), (745, 18927), (751, 18954), (773, 19011), (776, 19023), (780, 19041), (784, 19050), (786, 19062), (797, 19098), (804, 19128), (807, 19137), (809, 19149), (823, 19209), (833, 19263), (849, 19323), (858, 19365), (896, 19500), (900, 19524), (908, 19578), (912, 19626), (922, 19668), (925, 19692), (926, 19695),

Gene: Spock_27 Start: 20912, Stop: 23344, Start Num: 151

Candidate Starts for Spock_27:

(Start: 151 @20912 has 97 MA's), (214, 21011), (339, 21272), (346, 21293), (416, 21500), (431, 21533), (439, 21563), (473, 21635), (482, 21659), (548, 21857), (556, 21902), (561, 21914), (565, 21923), (577, 21974), (619, 22154), (624, 22169), (641, 22238), (646, 22250), (670, 22313), (682, 22355), (691, 22394), (692, 22400), (695, 22409), (700, 22430), (715, 22490), (745, 22607), (755, 22649), (783, 22721), (785, 22730), (792, 22751), (808, 22823), (813, 22844), (833, 22940), (872, 23087), (894, 23168), (912, 23315),

Gene: Spoonbill_18 Start: 17404, Stop: 19956, Start Num: 100

Candidate Starts for Spoonbill_18:

(Start: 100 @17404 has 238 MA's), (142, 17485), (188, 17554), (194, 17563), (196, 17566), (204, 17584), (233, 17632), (256, 17677), (307, 17791), (308, 17794), (314, 17806), (326, 17827), (329, 17836), (330, 17839), (346, 17887), (357, 17917), (373, 17983), (382, 18016), (392, 18052), (402, 18076), (431, 18136), (432, 18139), (442, 18157), (486, 18220), (488, 18223), (495, 18241), (501, 18262), (508, 18280), (517, 18307), (523, 18328), (538, 18361), (550, 18403), (551, 18409), (552, 18412), (555, 18427), (564, 18454), (566, 18457), (573, 18478), (576, 18490), (585, 18523), (606, 18616), (636, 18724), (643, 18748), (652, 18754), (663, 18772), (664, 18775), (669, 18799), (677, 18829), (685, 18853), (691, 18889), (692, 18895), (695, 18904), (701, 18931), (713, 18994), (719, 19018), (720, 19033), (732, 19075), (746, 19126), (777, 19222), (780, 19237), (784, 19246), (791, 19270), (807, 19333), (816, 19369), (892, 19675), (900, 19720), (912, 19822),

Gene: Squint_35 Start: 27671, Stop: 30178, Start Num: 100

Candidate Starts for Squint_35:

(Start: 100 @27671 has 238 MA's), (204, 27866), (222, 27902), (233, 27917), (285, 28004), (290, 28019), (330, 28094), (335, 28106), (346, 28133), (376, 28238), (389, 28277), (392, 28286), (404, 28310), (407, 28316), (416, 28334), (424, 28352), (432, 28367), (436, 28376), (442, 28385), (456, 28400), (473, 28427), (479, 28436), (495, 28475), (498, 28487), (501, 28496), (531, 28580), (555, 28661), (566, 28691), (567, 28694), (576, 28724), (583, 28751), (586, 28760), (594, 28811), (596, 28820), (598, 28823), (609, 28859), (614, 28880), (626, 28916), (679, 29069), (691, 29123), (702, 29168), (704, 29186), (705, 29189), (716, 29228), (750, 29375), (752, 29384), (777, 29453), (780, 29468), (823, 29633), (840, 29720), (852, 29768), (871, 29819), (890, 29897), (927, 30119), (929, 30122), (933, 30149),

Gene: StAnnes_18 Start: 17447, Stop: 19984, Start Num: 100

Candidate Starts for StAnnes_18:

(96, 17435), (Start: 100 @17447 has 238 MA's), (113, 17468), (Start: 125 @17489 has 1 MA's), (142, 17528), (194, 17606), (196, 17609), (204, 17627), (222, 17660), (233, 17675), (257, 17723), (307, 17834), (308, 17837), (325, 17867), (329, 17879), (330, 17882), (357, 17960), (362, 17984), (380, 18050), (392, 18095), (404, 18125), (407, 18131), (416, 18149), (428, 18173), (432, 18182), (456, 18215), (461, 18221), (479, 18251), (498, 18302), (501, 18311), (507, 18326), (508, 18329), (548, 18440), (549, 18443), (550, 18452), (551, 18458), (554, 18473), (555, 18476), (561, 18497), (573, 18527), (576, 18539), (585, 18572), (610, 18683), (611, 18686), (621, 18713), (623, 18719), (636, 18773), (637, 18776), (674, 18863), (677, 18878), (681, 18890), (682, 18893), (697, 18959), (702, 18983), (705, 19004), (707, 19013), (724, 19073), (725, 19076), (734, 19112), (737, 19130), (743, 19142), (745, 19151), (751, 19178), (776, 19247), (780, 19265), (784, 19274), (786, 19286), (797,

19322), (804, 19352), (809, 19373), (816, 19397), (823, 19433), (833, 19487), (849, 19547), (858, 19589), (880, 19667), (896, 19724), (900, 19748), (908, 19802), (912, 19850), (922, 19892), (925, 19916), (926, 19919),

Gene: StAugustine_34 Start: 31877, Stop: 33781, Start Num: 413

Candidate Starts for StAugustine_34:

(Start: 413 @31877 has 2 MA's), (462, 31988), (472, 32006), (499, 32075), (552, 32246), (575, 32321), (595, 32423), (609, 32468), (626, 32528), (631, 32552), (640, 32582), (710, 32846), (723, 32900), (737, 32963), (750, 33011), (759, 33047), (760, 33050), (766, 33062), (775, 33086), (818, 33263), (819, 33269), (829, 33314), (830, 33317), (842, 33368), (891, 33500), (912, 33644), (928, 33725), (937, 33770),

Gene: Stank_29 Start: 22790, Stop: 25186, Start Num: 148

Candidate Starts for Stank_29:

(Start: 148 @22790 has 132 MA's), (248, 22967), (259, 22988), (342, 23135), (382, 23276), (391, 23309), (404, 23342), (420, 23378), (479, 23471), (501, 23531), (508, 23549), (552, 23681), (566, 23726), (598, 23858), (610, 23903), (630, 23963), (672, 24077), (677, 24098), (688, 24137), (691, 24158), (695, 24173), (732, 24323), (734, 24329), (737, 24347), (752, 24401), (780, 24485), (807, 24578), (871, 24824), (912, 25040), (926, 25124), (933, 25157),

Gene: Stap_19 Start: 17430, Stop: 19967, Start Num: 100

Candidate Starts for Stap_19:

(Start: 100 @17430 has 238 MA's), (113, 17451), (Start: 125 @17472 has 1 MA's), (142, 17511), (188, 17580), (194, 17589), (196, 17592), (204, 17610), (222, 17643), (233, 17658), (257, 17706), (303, 17811), (307, 17817), (308, 17820), (329, 17862), (330, 17865), (362, 17967), (380, 18033), (392, 18078), (404, 18108), (407, 18114), (416, 18132), (428, 18156), (432, 18165), (456, 18198), (461, 18204), (479, 18234), (495, 18273), (498, 18285), (501, 18294), (507, 18309), (508, 18312), (548, 18423), (549, 18426), (550, 18435), (551, 18441), (554, 18456), (555, 18459), (561, 18480), (573, 18510), (576, 18522), (585, 18555), (610, 18666), (611, 18669), (621, 18696), (623, 18702), (636, 18756), (637, 18759), (677, 18861), (681, 18873), (682, 18876), (697, 18942), (702, 18966), (705, 18987), (707, 18996), (724, 19056), (725, 19059), (734, 19095), (737, 19113), (743, 19125), (745, 19134), (751, 19161), (776, 19230), (780, 19248), (784, 19257), (786, 19269), (797, 19305), (809, 19356), (814, 19374), (823, 19416), (833, 19470), (849, 19530), (858, 19572), (880, 19650), (896, 19707), (900, 19731), (908, 19785), (912, 19833), (925, 19899), (926, 19902),

Gene: Starcevich_19 Start: 17191, Stop: 19728, Start Num: 100

Candidate Starts for Starcevich_19:

(Start: 100 @17191 has 238 MA's), (113, 17212), (Start: 125 @17233 has 1 MA's), (142, 17272), (188, 17341), (194, 17350), (196, 17353), (204, 17371), (233, 17419), (303, 17572), (308, 17581), (330, 17626), (361, 17725), (362, 17728), (380, 17794), (404, 17869), (407, 17875), (416, 17893), (428, 17917), (431, 17923), (432, 17926), (456, 17959), (461, 17965), (479, 17995), (488, 18016), (498, 18046), (501, 18055), (507, 18070), (508, 18073), (548, 18184), (549, 18187), (550, 18196), (551, 18202), (554, 18217), (555, 18220), (561, 18241), (573, 18271), (576, 18283), (585, 18316), (610, 18427), (611, 18430), (621, 18457), (623, 18463), (636, 18517), (637, 18520), (677, 18622), (681, 18634), (682, 18637), (697, 18703), (702, 18727), (705, 18748), (707, 18757), (724, 18817), (725, 18820), (734, 18856), (737, 18874), (743, 18886), (745, 18895), (751, 18922), (773, 18979), (776, 18991), (780, 19009), (784, 19018), (786, 19030), (797, 19066), (804, 19096), (807, 19105), (809, 19117), (823, 19177), (833, 19231), (849, 19291), (858, 19333), (896, 19468), (900, 19492), (908, 19546), (912, 19594), (922, 19636), (925, 19660), (926, 19663),

Gene: Stargaze_22 Start: 20828, Stop: 23284, Start Num: 97

Candidate Starts for Stargaze_22:

(Start: 97 @20828 has 9 MA's), (166, 20972), (220, 21056), (237, 21086), (260, 21131), (341, 21290), (376, 21407), (483, 21629), (502, 21680), (507, 21695), (545, 21797), (563, 21863), (587, 21947), (611, 22061), (636, 22151), (640, 22166), (642, 22172), (647, 22181), (664, 22220), (670, 22247), (674, 22259), (691, 22334), (714, 22430), (719, 22442), (726, 22481), (768, 22616), (780, 22649), (784, 22658), (792, 22685), (814, 22784), (828, 22862), (843, 22922), (882, 23078), (909, 23222), (912, 23264),

Gene: Stark_27 Start: 22042, Stop: 24438, Start Num: 148

Candidate Starts for Stark_27:

(Start: 148 @22042 has 132 MA's), (248, 22219), (259, 22240), (342, 22387), (391, 22561), (404, 22594), (420, 22630), (479, 22723), (501, 22783), (508, 22801), (552, 22933), (566, 22978), (598, 23110), (610, 23155), (630, 23215), (672, 23329), (677, 23350), (688, 23389), (691, 23410), (695, 23425), (732, 23575), (734, 23581), (737, 23599), (752, 23653), (780, 23737), (807, 23830), (871, 24076), (912, 24292), (926, 24376), (933, 24409),

Gene: StellaBean_26 Start: 22283, Stop: 24679, Start Num: 148

Candidate Starts for StellaBean_26:

(Start: 148 @22283 has 132 MA's), (248, 22460), (259, 22481), (342, 22628), (382, 22769), (391, 22802), (404, 22835), (420, 22871), (479, 22964), (501, 23024), (508, 23042), (552, 23174), (566, 23219), (598, 23351), (610, 23396), (630, 23456), (672, 23570), (677, 23591), (688, 23630), (691, 23651), (695, 23666), (732, 23816), (734, 23822), (737, 23840), (752, 23894), (780, 23978), (807, 24071), (871, 24317), (912, 24533), (926, 24617), (933, 24650),

Gene: Stinson_28 Start: 21121, Stop: 23553, Start Num: 151

Candidate Starts for Stinson_28:

(Start: 151 @21121 has 97 MA's), (156, 21130), (214, 21220), (339, 21481), (346, 21502), (416, 21709), (431, 21742), (439, 21772), (473, 21844), (482, 21868), (498, 21913), (548, 22066), (561, 22123), (565, 22132), (574, 22168), (577, 22183), (619, 22363), (624, 22378), (641, 22447), (646, 22459), (670, 22522), (682, 22564), (691, 22603), (692, 22609), (695, 22618), (700, 22639), (715, 22699), (726, 22747), (743, 22807), (745, 22816), (758, 22873), (783, 22930), (785, 22939), (792, 22960), (802, 23005), (813, 23053), (833, 23149), (894, 23377), (912, 23524),

Gene: StolenFromERC_28 Start: 22274, Stop: 24670, Start Num: 148

Candidate Starts for StolenFromERC_28:

(Start: 148 @22274 has 132 MA's), (248, 22451), (259, 22472), (342, 22619), (391, 22793), (404, 22826), (420, 22862), (479, 22955), (501, 23015), (508, 23033), (552, 23165), (566, 23210), (598, 23342), (610, 23387), (630, 23447), (672, 23561), (677, 23582), (688, 23621), (691, 23642), (695, 23657), (732, 23807), (734, 23813), (737, 23831), (752, 23885), (780, 23969), (807, 24062), (871, 24308), (912, 24524), (926, 24608), (933, 24641),

Gene: StormChicken_26 Start: 22458, Stop: 24854, Start Num: 148

Candidate Starts for StormChicken_26:

(Start: 148 @22458 has 132 MA's), (248, 22635), (259, 22656), (342, 22803), (382, 22944), (391, 22977), (404, 23010), (420, 23046), (479, 23139), (501, 23199), (508, 23217), (552, 23349), (566, 23394), (598, 23526), (610, 23571), (630, 23631), (672, 23745), (677, 23766), (688, 23805), (691, 23826), (695, 23841), (732, 23991), (734, 23997), (737, 24015), (752, 24069), (780, 24153), (807, 24246), (871, 24492), (912, 24708), (926, 24792), (933, 24825),

Gene: Strokeseat_18 Start: 17495, Stop: 20032, Start Num: 100

Candidate Starts for Strokeseat_18:

(Start: 100 @17495 has 238 MA's), (113, 17516), (Start: 125 @17537 has 1 MA's), (142, 17576), (188, 17645), (194, 17654), (196, 17657), (204, 17675), (233, 17723), (307, 17882), (308, 17885), (329, 17927), (330, 17930), (357, 18008), (361, 18029), (362, 18032), (380, 18098), (404, 18173), (407,

18179), (428, 18221), (431, 18227), (432, 18230), (456, 18263), (461, 18269), (479, 18299), (488, 18320), (498, 18350), (501, 18359), (540, 18467), (545, 18479), (548, 18488), (549, 18491), (550, 18500), (551, 18506), (554, 18521), (555, 18524), (561, 18545), (576, 18587), (585, 18620), (621, 18761), (623, 18767), (636, 18821), (637, 18824), (652, 18851), (677, 18926), (681, 18938), (682, 18941), (697, 19007), (702, 19031), (705, 19052), (707, 19061), (724, 19121), (725, 19124), (734, 19160), (737, 19178), (745, 19199), (751, 19226), (776, 19295), (780, 19313), (784, 19322), (786, 19334), (797, 19370), (804, 19400), (823, 19481), (849, 19595), (858, 19637), (896, 19772), (900, 19796), (908, 19850), (925, 19964), (926, 19967),

Gene: Sulley_27 Start: 20845, Stop: 23277, Start Num: 151

Candidate Starts for Sulley_27:

(Start: 151 @20845 has 97 MA's), (214, 20944), (339, 21205), (346, 21226), (416, 21433), (431, 21466), (439, 21496), (473, 21568), (482, 21592), (548, 21790), (556, 21835), (561, 21847), (565, 21856), (577, 21907), (619, 22087), (624, 22102), (641, 22171), (646, 22183), (670, 22246), (682, 22288), (691, 22327), (692, 22333), (695, 22342), (700, 22363), (715, 22423), (724, 22456), (726, 22471), (727, 22474), (742, 22528), (745, 22540), (783, 22654), (785, 22663), (792, 22684), (808, 22756), (813, 22777), (833, 22873), (894, 23101), (912, 23248),

Gene: SuperGrey_19 Start: 18074, Stop: 20611, Start Num: 100

Candidate Starts for SuperGrey_19:

(Start: 100 @18074 has 238 MA's), (113, 18095), (Start: 125 @18116 has 1 MA's), (142, 18155), (188, 18224), (194, 18233), (196, 18236), (204, 18254), (233, 18302), (307, 18461), (308, 18464), (330, 18509), (361, 18608), (362, 18611), (380, 18677), (404, 18752), (407, 18758), (416, 18776), (428, 18800), (431, 18806), (432, 18809), (456, 18842), (461, 18848), (479, 18878), (488, 18899), (498, 18929), (501, 18938), (507, 18953), (508, 18956), (548, 19067), (549, 19070), (550, 19079), (551, 19085), (554, 19100), (555, 19103), (561, 19124), (573, 19154), (576, 19166), (585, 19199), (610, 19310), (611, 19313), (621, 19340), (623, 19346), (636, 19400), (637, 19403), (674, 19490), (677, 19505), (681, 19517), (682, 19520), (697, 19586), (702, 19610), (705, 19631), (707, 19640), (724, 19700), (725, 19703), (734, 19739), (737, 19757), (743, 19769), (745, 19778), (751, 19805), (773, 19862), (776, 19874), (780, 19892), (784, 19901), (786, 19913), (797, 19949), (804, 19979), (807, 19988), (809, 20000), (823, 20060), (833, 20114), (849, 20174), (858, 20216), (880, 20294), (896, 20351), (900, 20375), (908, 20429), (912, 20477), (922, 20519), (925, 20543), (926, 20546),

Gene: SuperheroCarly_30 Start: 24178, Stop: 26448, Start Num: 291

Candidate Starts for SuperheroCarly_30:

(Start: 291 @24178 has 22 MA's), (340, 24313), (344, 24322), (392, 24496), (394, 24502), (399, 24514), (465, 24667), (474, 24682), (482, 24697), (594, 25078), (595, 25084), (608, 25129), (631, 25216), (696, 25423), (705, 25471), (710, 25501), (717, 25525), (764, 25714), (775, 25741), (789, 25789), (806, 25861), (816, 25900), (818, 25921), (821, 25936), (825, 25954), (829, 25984), (850, 26068), (907, 26269), (912, 26311), (937, 26437),

Gene: Superphikiman_36 Start: 27736, Stop: 30243, Start Num: 100

Candidate Starts for Superphikiman_36:

(Start: 100 @27736 has 238 MA's), (204, 27931), (222, 27967), (233, 27982), (285, 28069), (290, 28084), (330, 28159), (335, 28171), (346, 28198), (376, 28303), (389, 28342), (392, 28351), (404, 28375), (407, 28381), (416, 28399), (424, 28417), (432, 28432), (436, 28441), (442, 28450), (456, 28465), (473, 28492), (479, 28501), (495, 28540), (498, 28552), (501, 28561), (531, 28645), (555, 28726), (566, 28756), (567, 28759), (576, 28789), (583, 28816), (586, 28825), (594, 28876), (596, 28885), (598, 28888), (609, 28924), (614, 28945), (626, 28981), (679, 29134), (691, 29188), (702, 29233), (704, 29251), (705, 29254), (716, 29293), (750, 29440), (752, 29449), (777, 29518), (780, 29533), (823, 29698), (840, 29785), (852, 29833), (871, 29884), (890, 29962), (927, 30184), (929, 30187), (933, 30214),

Gene: SwagPiggett_18 Start: 17406, Stop: 19943, Start Num: 100

Candidate Starts for SwagPiggett_18:

(Start: 100 @17406 has 238 MA's), (113, 17427), (Start: 125 @17448 has 1 MA's), (142, 17487), (188, 17556), (194, 17565), (196, 17568), (204, 17586), (233, 17634), (303, 17787), (308, 17796), (330, 17841), (357, 17919), (362, 17943), (380, 18009), (392, 18054), (404, 18084), (407, 18090), (416, 18108), (428, 18132), (432, 18141), (456, 18174), (461, 18180), (479, 18210), (495, 18249), (501, 18270), (507, 18285), (508, 18288), (549, 18402), (550, 18411), (551, 18417), (555, 18435), (561, 18456), (573, 18486), (576, 18498), (585, 18531), (610, 18642), (611, 18645), (621, 18672), (623, 18678), (636, 18732), (637, 18735), (674, 18822), (677, 18837), (682, 18852), (702, 18942), (705, 18963), (707, 18972), (724, 19032), (725, 19035), (734, 19071), (737, 19089), (743, 19101), (745, 19110), (751, 19137), (776, 19206), (780, 19224), (784, 19233), (786, 19245), (797, 19281), (804, 19311), (809, 19332), (816, 19356), (823, 19392), (833, 19446), (858, 19548), (880, 19626), (896, 19683), (900, 19707), (908, 19761), (912, 19809), (922, 19851), (928, 19884), (929, 19887),

Gene: TA17A_33 Start: 29955, Stop: 32675, Start Num: 75

Candidate Starts for TA17A_33:

(Start: 75 @29955 has 36 MA's), (94, 30009), (117, 30048), (126, 30066), (138, 30093), (149, 30117), (152, 30120), (166, 30153), (225, 30261), (237, 30282), (238, 30285), (261, 30339), (288, 30399), (299, 30423), (313, 30459), (331, 30507), (336, 30528), (351, 30567), (369, 30621), (381, 30675), (385, 30687), (392, 30711), (402, 30735), (408, 30747), (415, 30762), (422, 30777), (438, 30819), (446, 30837), (458, 30876), (470, 30900), (539, 31071), (556, 31149), (575, 31209), (583, 31245), (584, 31248), (599, 31326), (607, 31362), (613, 31386), (640, 31485), (656, 31524), (673, 31578), (699, 31695), (704, 31722), (722, 31785), (724, 31791), (737, 31848), (765, 31935), (776, 31962), (784, 31992), (788, 32010), (795, 32031), (796, 32040), (797, 32046), (798, 32052), (801, 32064), (824, 32169), (827, 32187), (833, 32220), (853, 32307), (860, 32337), (863, 32343), (878, 32403), (900, 32496), (901, 32511), (908, 32553), (923, 32667),

Gene: TBrady12_28 Start: 22274, Stop: 24670, Start Num: 148

Candidate Starts for TBrady12_28:

(Start: 148 @22274 has 132 MA's), (248, 22451), (259, 22472), (342, 22619), (382, 22760), (391, 22793), (404, 22826), (420, 22862), (479, 22955), (501, 23015), (508, 23033), (552, 23165), (566, 23210), (598, 23342), (610, 23387), (630, 23447), (672, 23561), (677, 23582), (688, 23621), (691, 23642), (695, 23657), (732, 23807), (734, 23813), (737, 23831), (752, 23885), (780, 23969), (807, 24062), (871, 24308), (912, 24524), (926, 24608), (933, 24641),

Gene: TDanisky_18 Start: 17429, Stop: 19966, Start Num: 100

Candidate Starts for TDanisky_18:

(Start: 100 @17429 has 238 MA's), (113, 17450), (Start: 125 @17471 has 1 MA's), (142, 17510), (188, 17579), (194, 17588), (196, 17591), (204, 17609), (233, 17657), (303, 17810), (308, 17819), (330, 17864), (357, 17942), (362, 17966), (380, 18032), (392, 18077), (404, 18107), (407, 18113), (416, 18131), (428, 18155), (432, 18164), (456, 18197), (461, 18203), (479, 18233), (495, 18272), (501, 18293), (507, 18308), (508, 18311), (549, 18425), (550, 18434), (551, 18440), (555, 18458), (561, 18479), (573, 18509), (576, 18521), (585, 18554), (610, 18665), (611, 18668), (621, 18695), (623, 18701), (636, 18755), (637, 18758), (674, 18845), (677, 18860), (682, 18875), (702, 18965), (705, 18986), (707, 18995), (724, 19055), (725, 19058), (734, 19094), (737, 19112), (743, 19124), (745, 19133), (751, 19160), (776, 19229), (780, 19247), (784, 19256), (786, 19268), (797, 19304), (804, 19334), (809, 19355), (816, 19379), (823, 19415), (833, 19469), (858, 19571), (880, 19649), (896, 19706), (900, 19730), (908, 19784), (912, 19832), (922, 19874), (928, 19907), (929, 19910),

Gene: Tachez_27 Start: 20841, Stop: 23273, Start Num: 151

Candidate Starts for Tachez_27:

(Start: 151 @20841 has 97 MA's), (214, 20940), (339, 21201), (346, 21222), (416, 21429), (431, 21462), (439, 21492), (473, 21564), (482, 21588), (498, 21633), (548, 21786), (556, 21831), (561,

21843), (565, 21852), (577, 21903), (619, 22083), (624, 22098), (641, 22167), (646, 22179), (682, 22284), (691, 22323), (692, 22329), (695, 22338), (715, 22419), (726, 22467), (746, 22542), (755, 22578), (783, 22650), (785, 22659), (792, 22680), (813, 22773), (833, 22869), (872, 23016), (882, 23058), (894, 23097), (904, 23172),

Gene: TaiwanKao_28 Start: 20852, Stop: 23284, Start Num: 151

Candidate Starts for TaiwanKao_28:

(Start: 151 @20852 has 97 MA's), (214, 20951), (339, 21212), (416, 21440), (431, 21473), (439, 21503), (482, 21599), (498, 21644), (548, 21797), (556, 21842), (561, 21854), (565, 21863), (577, 21914), (619, 22094), (624, 22109), (641, 22178), (646, 22190), (670, 22253), (682, 22295), (691, 22334), (692, 22340), (695, 22349), (700, 22370), (715, 22430), (745, 22547), (755, 22589), (783, 22661), (785, 22670), (792, 22691), (808, 22763), (813, 22784), (833, 22880), (894, 23108), (912, 23255),

Gene: Taj_18 Start: 17430, Stop: 19967, Start Num: 100

Candidate Starts for Taj_18:

(96, 17418), (Start: 100 @17430 has 238 MA's), (113, 17451), (Start: 125 @17472 has 1 MA's), (142, 17511), (188, 17580), (194, 17589), (196, 17592), (204, 17610), (222, 17643), (233, 17658), (257, 17706), (303, 17811), (307, 17817), (308, 17820), (329, 17862), (330, 17865), (357, 17943), (380, 18033), (392, 18078), (404, 18108), (407, 18114), (416, 18132), (428, 18156), (432, 18165), (456, 18198), (461, 18204), (479, 18234), (495, 18273), (498, 18285), (501, 18294), (507, 18309), (508, 18312), (548, 18423), (549, 18426), (550, 18435), (551, 18441), (554, 18456), (555, 18459), (561, 18480), (573, 18510), (576, 18522), (585, 18555), (610, 18666), (611, 18669), (621, 18696), (623, 18702), (636, 18756), (637, 18759), (674, 18846), (677, 18861), (681, 18873), (682, 18876), (697, 18942), (702, 18966), (705, 18987), (707, 18996), (724, 19056), (725, 19059), (734, 19095), (737, 19113), (743, 19125), (745, 19134), (751, 19161), (776, 19230), (780, 19248), (784, 19257), (786, 19269), (797, 19305), (804, 19335), (809, 19356), (816, 19380), (823, 19416), (833, 19470), (849, 19530), (858, 19572), (896, 19707), (900, 19731), (908, 19785), (912, 19833), (922, 19875), (925, 19899), (926, 19902),

Gene: Taquito_26 Start: 21892, Stop: 24636, Start Num: 72

Candidate Starts for Taquito_26:

(Start: 72 @21892 has 3 MA's), (110, 21982), (121, 22003), (134, 22027), (144, 22051), (175, 22117), (221, 22207), (224, 22216), (226, 22219), (236, 22240), (242, 22252), (255, 22285), (301, 22420), (319, 22468), (326, 22483), (333, 22504), (338, 22522), (347, 22546), (352, 22561), (355, 22570), (362, 22597), (370, 22603), (381, 22648), (392, 22672), (397, 22684), (400, 22693), (403, 22699), (408, 22708), (420, 22735), (430, 22753), (464, 22846), (470, 22858), (475, 22867), (513, 22957), (518, 22978), (526, 22996), (539, 23029), (546, 23056), (556, 23107), (572, 23143), (575, 23167), (583, 23203), (586, 23212), (588, 23227), (592, 23254), (599, 23284), (607, 23320), (611, 23338), (612, 23341), (616, 23350), (663, 23500), (673, 23539), (699, 23656), (704, 23683), (722, 23746), (724, 23752), (726, 23767), (737, 23809), (765, 23896), (776, 23923), (784, 23953), (788, 23971), (798, 24013), (801, 24025), (825, 24133), (827, 24148), (833, 24181), (837, 24202), (853, 24268), (860, 24298), (863, 24304), (878, 24364), (884, 24382), (900, 24457), (903, 24478), (908, 24514), (923, 24628),

Gene: Tarkin_28 Start: 23273, Stop: 25669, Start Num: 148

Candidate Starts for Tarkin_28:

(Start: 148 @23273 has 132 MA's), (248, 23450), (259, 23471), (342, 23618), (382, 23759), (391, 23792), (404, 23825), (420, 23861), (479, 23954), (501, 24014), (508, 24032), (552, 24164), (566, 24209), (598, 24341), (610, 24386), (630, 24446), (672, 24560), (677, 24581), (688, 24620), (691, 24641), (695, 24656), (732, 24806), (734, 24812), (737, 24830), (752, 24884), (780, 24968), (807, 25061), (871, 25307), (912, 25523), (926, 25607), (933, 25640),

Gene: Tchotchke_19 Start: 17331, Stop: 19868, Start Num: 100

Candidate Starts for Tchotchke_19:

(Start: 100 @17331 has 238 MA's), (113, 17352), (Start: 125 @17373 has 1 MA's), (142, 17412), (188, 17481), (194, 17490), (196, 17493), (204, 17511), (233, 17559), (303, 17712), (308, 17721), (330, 17766), (361, 17865), (362, 17868), (380, 17934), (404, 18009), (407, 18015), (416, 18033), (428, 18057), (431, 18063), (432, 18066), (456, 18099), (461, 18105), (479, 18135), (488, 18156), (498, 18186), (501, 18195), (507, 18210), (508, 18213), (548, 18324), (549, 18327), (550, 18336), (551, 18342), (554, 18357), (555, 18360), (561, 18381), (573, 18411), (576, 18423), (585, 18456), (610, 18567), (611, 18570), (621, 18597), (623, 18603), (636, 18657), (637, 18660), (677, 18762), (681, 18774), (682, 18777), (697, 18843), (702, 18867), (705, 18888), (707, 18897), (724, 18957), (725, 18960), (734, 18996), (737, 19014), (743, 19026), (745, 19035), (751, 19062), (773, 19119), (776, 19131), (780, 19149), (784, 19158), (786, 19170), (797, 19206), (804, 19236), (807, 19245), (809, 19257), (823, 19317), (833, 19371), (849, 19431), (858, 19473), (896, 19608), (900, 19632), (908, 19686), (912, 19734), (922, 19776), (925, 19800), (926, 19803),

Gene: TeamEdward_26 Start: 22455, Stop: 24851, Start Num: 148

Candidate Starts for TeamEdward_26:

(Start: 148 @22455 has 132 MA's), (248, 22632), (259, 22653), (342, 22800), (382, 22941), (391, 22974), (404, 23007), (420, 23043), (479, 23136), (501, 23196), (508, 23214), (552, 23346), (566, 23391), (598, 23523), (610, 23568), (630, 23628), (672, 23742), (677, 23763), (688, 23802), (691, 23823), (695, 23838), (732, 23988), (734, 23994), (737, 24012), (752, 24066), (780, 24150), (807, 24243), (871, 24489), (912, 24705), (926, 24789), (933, 24822),

Gene: TeardropMSU_25 Start: 22191, Stop: 24587, Start Num: 148

Candidate Starts for TeardropMSU_25:

(Start: 148 @22191 has 132 MA's), (248, 22368), (259, 22389), (342, 22536), (382, 22677), (391, 22710), (404, 22743), (420, 22779), (479, 22872), (501, 22932), (508, 22950), (538, 23031), (598, 23259), (610, 23304), (677, 23499), (679, 23505), (682, 23514), (691, 23559), (695, 23574), (734, 23730), (737, 23748), (740, 23757), (755, 23811), (780, 23886), (781, 23889), (832, 24099), (834, 24111), (871, 24225), (912, 24441), (926, 24525), (931, 24549), (933, 24558),

Gene: Teaspoon_27 Start: 22237, Stop: 24633, Start Num: 148

Candidate Starts for Teaspoon_27:

(Start: 148 @22237 has 132 MA's), (248, 22414), (259, 22435), (342, 22582), (382, 22723), (391, 22756), (404, 22789), (420, 22825), (479, 22918), (501, 22978), (508, 22996), (552, 23128), (566, 23173), (598, 23305), (610, 23350), (630, 23410), (672, 23524), (677, 23545), (688, 23584), (691, 23605), (695, 23620), (732, 23770), (734, 23776), (737, 23794), (752, 23848), (780, 23932), (807, 24025), (871, 24271), (912, 24487), (926, 24571), (933, 24604),

Gene: TelAviv_55 Start: 36063, Stop: 38573, Start Num: 114

Candidate Starts for TelAviv_55:

(Start: 114 @36063 has 34 MA's), (128, 36096), (163, 36165), (165, 36168), (179, 36192), (196, 36216), (209, 36240), (222, 36273), (310, 36480), (315, 36492), (316, 36495), (368, 36642), (373, 36672), (380, 36696), (392, 36726), (393, 36729), (404, 36756), (416, 36780), (431, 36810), (468, 36867), (481, 36891), (495, 36927), (498, 36939), (507, 36963), (508, 36966), (520, 37008), (554, 37104), (555, 37107), (627, 37362), (677, 37506), (691, 37566), (704, 37638), (705, 37641), (730, 37737), (780, 37911), (786, 37932), (812, 38025), (815, 38037), (833, 38127), (854, 38202), (879, 38247), (917, 38448), (924, 38502), (929, 38517),

Gene: Terminus_26 Start: 22371, Stop: 24767, Start Num: 148

Candidate Starts for Terminus_26:

(Start: 148 @22371 has 132 MA's), (248, 22548), (259, 22569), (342, 22716), (382, 22857), (391, 22890), (404, 22923), (420, 22959), (479, 23052), (501, 23112), (508, 23130), (552, 23262), (566,

23307), (598, 23439), (610, 23484), (630, 23544), (672, 23658), (677, 23679), (688, 23718), (691, 23739), (695, 23754), (732, 23904), (734, 23910), (737, 23928), (752, 23982), (780, 24066), (807, 24159), (871, 24405), (912, 24621), (926, 24705), (933, 24738),

Gene: ThetaBob_20 Start: 17751, Stop: 20231, Start Num: 106

Candidate Starts for ThetaBob_20:

(Start: 106 @17751 has 3 MA's), (111, 17757), (113, 17763), (Start: 148 @17826 has 132 MA's), (150, 17829), (167, 17856), (200, 17910), (204, 17919), (222, 17952), (241, 17985), (257, 18018), (285, 18057), (290, 18072), (308, 18108), (309, 18114), (311, 18117), (327, 18135), (330, 18147), (335, 18159), (345, 18183), (346, 18186), (389, 18330), (392, 18339), (404, 18363), (416, 18387), (428, 18411), (431, 18417), (442, 18438), (449, 18441), (461, 18459), (479, 18489), (490, 18519), (498, 18540), (531, 18633), (538, 18648), (540, 18657), (548, 18678), (549, 18681), (556, 18723), (573, 18765), (574, 18768), (576, 18777), (583, 18804), (586, 18813), (592, 18852), (596, 18873), (598, 18876), (609, 18912), (614, 18933), (636, 19011), (637, 19014), (666, 19068), (681, 19128), (702, 19221), (705, 19242), (716, 19278), (729, 19332), (732, 19341), (750, 19419), (755, 19437), (769, 19473), (770, 19476), (776, 19494), (777, 19497), (780, 19512), (786, 19533), (797, 19569), (799, 19581), (816, 19644), (823, 19677), (840, 19764), (852, 19812), (857, 19836), (865, 19863), (871, 19872), (879, 19911), (890, 19950), (896, 19974), (899, 19995), (912, 20091), (918, 20112), (929, 20175), (933, 20202), (936, 20211),

Gene: Thimble_26 Start: 21237, Stop: 23633, Start Num: 148

Candidate Starts for Thimble_26:

(Start: 148 @21237 has 132 MA's), (248, 21414), (259, 21435), (342, 21582), (382, 21723), (391, 21756), (404, 21789), (420, 21825), (479, 21918), (501, 21978), (508, 21996), (552, 22128), (566, 22173), (598, 22305), (610, 22350), (630, 22410), (672, 22524), (677, 22545), (688, 22584), (691, 22605), (695, 22620), (732, 22770), (734, 22776), (737, 22794), (752, 22848), (780, 22932), (807, 23025), (871, 23271), (912, 23487), (926, 23571), (933, 23604),

Gene: Thoth_30 Start: 24313, Stop: 26583, Start Num: 291

Candidate Starts for Thoth_30:

(Start: 291 @24313 has 22 MA's), (340, 24448), (344, 24457), (392, 24631), (394, 24637), (399, 24649), (465, 24802), (474, 24817), (482, 24832), (594, 25213), (595, 25219), (608, 25264), (631, 25351), (694, 25552), (696, 25558), (705, 25606), (710, 25636), (717, 25660), (764, 25849), (775, 25876), (789, 25924), (806, 25996), (816, 26035), (818, 26056), (821, 26071), (825, 26089), (829, 26119), (850, 26203), (907, 26404), (912, 26446), (937, 26572),

Gene: Thresher_27 Start: 23038, Stop: 25434, Start Num: 148

Candidate Starts for Thresher_27:

(Start: 148 @23038 has 132 MA's), (248, 23215), (259, 23236), (342, 23383), (391, 23557), (404, 23590), (420, 23626), (479, 23719), (501, 23779), (508, 23797), (552, 23929), (566, 23974), (598, 24106), (610, 24151), (672, 24325), (677, 24346), (688, 24385), (691, 24406), (695, 24421), (732, 24571), (734, 24577), (737, 24595), (752, 24649), (780, 24733), (807, 24826), (871, 25072), (912, 25288), (926, 25372), (933, 25405),

Gene: Thumb_29 Start: 25682, Stop: 28525, Start Num: 36

Candidate Starts for Thumb_29:

(Start: 36 @25682 has 10 MA's), (65, 25814), (67, 25826), (68, 25835), (83, 25904), (124, 25970), (131, 25991), (154, 26039), (173, 26081), (190, 26105), (208, 26138), (227, 26174), (234, 26186), (280, 26279), (303, 26336), (323, 26375), (382, 26570), (390, 26600), (407, 26642), (484, 26783), (495, 26801), (520, 26882), (538, 26921), (545, 26942), (585, 27080), (591, 27119), (637, 27284), (669, 27356), (681, 27398), (685, 27410), (705, 27509), (805, 27872), (866, 28142), (877, 28175), (882, 28199), (906, 28319), (919, 28397), (935, 28484), (938, 28499), (939, 28505),

Gene: Tinciduntolum_33 Start: 30093, Stop: 32813, Start Num: 75

Candidate Starts for Tinciduntolum_33:

(Start: 75 @30093 has 36 MA's), (94, 30147), (117, 30186), (138, 30231), (149, 30255), (152, 30258), (166, 30291), (225, 30399), (237, 30420), (238, 30423), (261, 30477), (288, 30537), (299, 30561), (313, 30597), (331, 30645), (336, 30666), (351, 30705), (362, 30744), (369, 30759), (381, 30813), (385, 30825), (392, 30849), (402, 30873), (408, 30885), (415, 30900), (422, 30915), (438, 30957), (446, 30975), (458, 31014), (470, 31038), (539, 31209), (556, 31287), (575, 31347), (583, 31383), (584, 31386), (599, 31464), (607, 31500), (613, 31524), (620, 31545), (673, 31716), (675, 31722), (699, 31833), (704, 31860), (722, 31923), (724, 31929), (726, 31944), (737, 31986), (765, 32073), (776, 32100), (784, 32130), (788, 32148), (795, 32169), (796, 32178), (797, 32184), (798, 32190), (801, 32202), (824, 32307), (827, 32325), (833, 32358), (853, 32445), (860, 32475), (863, 32481), (878, 32541), (900, 32634), (901, 32649), (908, 32691), (923, 32805),

Gene: TiniBug_27 Start: 20837, Stop: 23269, Start Num: 151

Candidate Starts for TiniBug_27:

(141, 20819), (Start: 151 @20837 has 97 MA's), (171, 20885), (214, 20936), (339, 21197), (346, 21218), (429, 21455), (431, 21458), (439, 21488), (440, 21491), (473, 21560), (482, 21584), (483, 21590), (488, 21596), (498, 21629), (548, 21782), (561, 21839), (565, 21848), (577, 21899), (619, 22079), (624, 22094), (641, 22163), (646, 22175), (664, 22211), (670, 22238), (682, 22280), (691, 22319), (692, 22325), (695, 22334), (700, 22355), (715, 22415), (724, 22448), (727, 22466), (745, 22532), (755, 22574), (783, 22646), (785, 22655), (792, 22676), (808, 22748), (872, 23012), (894, 23093), (904, 23168), (912, 23240),

Gene: Tiri_27 Start: 20884, Stop: 23316, Start Num: 151

Candidate Starts for Tiri_27:

(Start: 151 @20884 has 97 MA's), (214, 20983), (339, 21244), (346, 21265), (416, 21472), (431, 21505), (439, 21535), (473, 21607), (482, 21631), (548, 21829), (556, 21874), (561, 21886), (565, 21895), (577, 21946), (619, 22126), (624, 22141), (641, 22210), (646, 22222), (670, 22285), (682, 22327), (691, 22366), (692, 22372), (695, 22381), (700, 22402), (715, 22462), (745, 22579), (755, 22621), (783, 22693), (785, 22702), (792, 22723), (808, 22795), (813, 22816), (833, 22912), (848, 22975), (882, 23101), (894, 23140), (912, 23287),

Gene: Tomaszewski_25 Start: 21884, Stop: 24280, Start Num: 148

Candidate Starts for Tomaszewski_25:

(Start: 148 @21884 has 132 MA's), (248, 22061), (259, 22082), (342, 22229), (382, 22370), (391, 22403), (404, 22436), (420, 22472), (479, 22565), (501, 22625), (508, 22643), (552, 22775), (566, 22820), (598, 22952), (610, 22997), (672, 23171), (677, 23192), (688, 23231), (691, 23252), (695, 23267), (734, 23423), (737, 23441), (752, 23495), (780, 23579), (807, 23672), (871, 23918), (912, 24134), (926, 24218), (933, 24251),

Gene: TootsiePop_19 Start: 17273, Stop: 19798, Start Num: 100

Candidate Starts for TootsiePop_19:

(Start: 100 @17273 has 238 MA's), (113, 17294), (Start: 125 @17315 has 1 MA's), (142, 17354), (188, 17423), (194, 17432), (196, 17435), (204, 17453), (222, 17486), (233, 17501), (257, 17549), (307, 17660), (308, 17663), (330, 17708), (357, 17786), (362, 17810), (380, 17876), (392, 17921), (404, 17951), (407, 17957), (416, 17975), (428, 17999), (432, 18008), (456, 18041), (461, 18047), (479, 18077), (495, 18116), (498, 18128), (501, 18137), (507, 18152), (508, 18155), (555, 18302), (573, 18353), (597, 18464), (611, 18515), (620, 18539), (652, 18632), (669, 18677), (672, 18686), (677, 18707), (681, 18719), (682, 18722), (691, 18767), (702, 18812), (704, 18830), (705, 18833), (719, 18884), (732, 18935), (734, 18941), (737, 18959), (743, 18971), (745, 18980), (752, 19013), (780, 19094), (799, 19163), (807, 19190), (813, 19217), (825, 19268), (833, 19316), (899, 19559), (912, 19664), (918, 19685), (928, 19739), (932, 19763),

Gene: Tootsieroll_19 Start: 17239, Stop: 19776, Start Num: 100

Candidate Starts for Tootsieroll_19:

(96, 17227), (Start: 100 @17239 has 238 MA's), (113, 17260), (Start: 125 @17281 has 1 MA's), (142, 17320), (188, 17389), (194, 17398), (196, 17401), (204, 17419), (222, 17452), (233, 17467), (257, 17515), (303, 17620), (307, 17626), (308, 17629), (329, 17671), (330, 17674), (362, 17776), (380, 17842), (392, 17887), (404, 17917), (407, 17923), (416, 17941), (428, 17965), (432, 17974), (456, 18007), (461, 18013), (479, 18043), (498, 18094), (501, 18103), (540, 18211), (545, 18223), (548, 18232), (549, 18235), (551, 18250), (554, 18265), (555, 18268), (561, 18289), (573, 18319), (576, 18331), (585, 18364), (610, 18475), (611, 18478), (621, 18505), (623, 18511), (636, 18565), (637, 18568), (652, 18595), (677, 18670), (681, 18682), (682, 18685), (697, 18751), (701, 18772), (702, 18775), (705, 18796), (707, 18805), (724, 18865), (725, 18868), (732, 18898), (737, 18922), (743, 18934), (745, 18943), (776, 19039), (780, 19057), (784, 19066), (786, 19078), (804, 19144), (807, 19153), (809, 19165), (816, 19189), (823, 19225), (858, 19381), (896, 19516), (900, 19540), (908, 19594), (918, 19663), (925, 19708), (926, 19711),

Gene: Topiatin_20 Start: 18098, Stop: 20635, Start Num: 100

Candidate Starts for Topiatin_20:

(96, 18086), (Start: 100 @18098 has 238 MA's), (113, 18119), (Start: 125 @18140 has 1 MA's), (142, 18179), (188, 18248), (194, 18257), (196, 18260), (204, 18278), (222, 18311), (233, 18326), (257, 18374), (307, 18485), (308, 18488), (325, 18518), (330, 18533), (357, 18611), (362, 18635), (380, 18701), (392, 18746), (404, 18776), (407, 18782), (416, 18800), (428, 18824), (432, 18833), (456, 18866), (461, 18872), (479, 18902), (495, 18941), (498, 18953), (501, 18962), (507, 18977), (508, 18980), (548, 19091), (549, 19094), (550, 19103), (551, 19109), (554, 19124), (555, 19127), (561, 19148), (573, 19178), (576, 19190), (585, 19223), (610, 19334), (611, 19337), (621, 19364), (623, 19370), (636, 19424), (637, 19427), (674, 19514), (677, 19529), (681, 19541), (682, 19544), (697, 19610), (702, 19634), (705, 19655), (707, 19664), (719, 19706), (724, 19724), (725, 19727), (734, 19763), (737, 19781), (743, 19793), (745, 19802), (751, 19829), (776, 19898), (780, 19916), (784, 19925), (786, 19937), (797, 19973), (804, 20003), (809, 20024), (816, 20048), (823, 20084), (833, 20138), (849, 20198), (858, 20240), (880, 20318), (896, 20375), (900, 20399), (908, 20453), (912, 20501), (922, 20543), (925, 20567), (926, 20570),

Gene: Topper_27 Start: 20912, Stop: 23344, Start Num: 151

Candidate Starts for Topper_27:

(Start: 151 @20912 has 97 MA's), (214, 21011), (339, 21272), (346, 21293), (416, 21500), (431, 21533), (439, 21563), (473, 21635), (482, 21659), (548, 21857), (556, 21902), (561, 21914), (565, 21923), (577, 21974), (619, 22154), (624, 22169), (641, 22238), (646, 22250), (670, 22313), (682, 22355), (691, 22394), (692, 22400), (695, 22409), (700, 22430), (715, 22490), (745, 22607), (755, 22649), (783, 22721), (785, 22730), (792, 22751), (808, 22823), (813, 22844), (833, 22940), (872, 23087), (894, 23168), (912, 23315),

Gene: Toron_20 Start: 17872, Stop: 20292, Start Num: 184

Candidate Starts for Toron_20:

(184, 17872), (187, 17878), (192, 17884), (228, 17947), (242, 17971), (244, 17974), (269, 18037), (318, 18145), (322, 18154), (330, 18175), (334, 18184), (361, 18274), (373, 18319), (389, 18379), (432, 18475), (471, 18532), (486, 18556), (504, 18604), (507, 18613), (508, 18616), (523, 18664), (540, 18706), (549, 18730), (550, 18739), (551, 18745), (555, 18763), (561, 18784), (567, 18796), (573, 18814), (576, 18826), (585, 18859), (596, 18922), (598, 18925), (604, 18940), (606, 18952), (636, 19060), (643, 19084), (664, 19111), (666, 19117), (677, 19165), (685, 19189), (691, 19225), (692, 19231), (695, 19240), (719, 19354), (720, 19369), (743, 19447), (777, 19558), (780, 19573), (784, 19582), (807, 19669), (816, 19705), (823, 19741), (833, 19795), (896, 20032), (900, 20056), (918, 20179), (925, 20224), (932, 20257),

Gene: Totinger_19 Start: 17189, Stop: 19726, Start Num: 100

Candidate Starts for Totinger_19:

(Start: 100 @17189 has 238 MA's), (113, 17210), (Start: 125 @17231 has 1 MA's), (142, 17270), (188, 17339), (194, 17348), (196, 17351), (204, 17369), (233, 17417), (303, 17570), (308, 17579), (330, 17624), (361, 17723), (362, 17726), (380, 17792), (404, 17867), (407, 17873), (416, 17891), (428, 17915), (431, 17921), (432, 17924), (456, 17957), (461, 17963), (479, 17993), (488, 18014), (498, 18044), (501, 18053), (507, 18068), (508, 18071), (548, 18182), (549, 18185), (550, 18194), (551, 18200), (554, 18215), (555, 18218), (561, 18239), (573, 18269), (576, 18281), (585, 18314), (610, 18425), (611, 18428), (621, 18455), (623, 18461), (636, 18515), (637, 18518), (677, 18620), (681, 18632), (682, 18635), (697, 18701), (702, 18725), (705, 18746), (707, 18755), (724, 18815), (725, 18818), (734, 18854), (737, 18872), (743, 18884), (745, 18893), (751, 18920), (773, 18977), (776, 18989), (780, 19007), (784, 19016), (786, 19028), (797, 19064), (804, 19094), (807, 19103), (809, 19115), (823, 19175), (833, 19229), (849, 19289), (858, 19331), (896, 19466), (900, 19490), (908, 19544), (912, 19592), (922, 19634), (925, 19658), (926, 19661),

Gene: Toto_26 Start: 22284, Stop: 24680, Start Num: 148

Candidate Starts for Toto_26:

(Start: 148 @22284 has 132 MA's), (248, 22461), (259, 22482), (342, 22629), (382, 22770), (391, 22803), (404, 22836), (420, 22872), (479, 22965), (501, 23025), (508, 23043), (556, 23199), (566, 23220), (594, 23340), (598, 23352), (610, 23397), (677, 23592), (682, 23607), (691, 23652), (695, 23667), (734, 23823), (737, 23841), (740, 23850), (780, 23979), (781, 23982), (832, 24192), (834, 24204), (871, 24318), (912, 24534), (926, 24618), (931, 24642), (933, 24651),

Gene: Traaww1_24 Start: 21929, Stop: 24325, Start Num: 148

Candidate Starts for Traaww1_24:

(Start: 148 @21929 has 132 MA's), (248, 22106), (259, 22127), (342, 22274), (382, 22415), (391, 22448), (404, 22481), (420, 22517), (479, 22610), (501, 22670), (508, 22688), (538, 22769), (598, 22997), (610, 23042), (677, 23237), (679, 23243), (682, 23252), (691, 23297), (695, 23312), (734, 23468), (737, 23486), (740, 23495), (755, 23549), (780, 23624), (781, 23627), (832, 23837), (834, 23849), (871, 23963), (912, 24179), (926, 24263), (931, 24287), (933, 24296),

Gene: Tres_32 Start: 29968, Stop: 32688, Start Num: 75

Candidate Starts for Tres_32:

(Start: 75 @29968 has 36 MA's), (94, 30022), (117, 30061), (138, 30106), (149, 30130), (152, 30133), (166, 30166), (225, 30274), (237, 30295), (238, 30298), (261, 30352), (288, 30412), (299, 30436), (313, 30472), (331, 30520), (336, 30541), (351, 30580), (362, 30619), (369, 30634), (381, 30688), (392, 30724), (402, 30748), (408, 30760), (415, 30775), (422, 30790), (438, 30832), (446, 30850), (458, 30889), (470, 30913), (539, 31084), (556, 31162), (575, 31222), (583, 31258), (584, 31261), (599, 31339), (607, 31375), (613, 31399), (620, 31420), (673, 31591), (675, 31597), (699, 31708), (704, 31735), (722, 31798), (724, 31804), (726, 31819), (737, 31861), (765, 31948), (776, 31975), (784, 32005), (788, 32023), (795, 32044), (796, 32053), (797, 32059), (798, 32065), (801, 32077), (824, 32182), (827, 32200), (833, 32233), (853, 32320), (860, 32350), (863, 32356), (878, 32416), (900, 32509), (901, 32524), (908, 32566), (923, 32680),

Gene: TreyKay_27 Start: 20846, Stop: 23278, Start Num: 151

Candidate Starts for TreyKay_27:

(Start: 151 @20846 has 97 MA's), (214, 20945), (339, 21206), (416, 21434), (431, 21467), (439, 21497), (473, 21569), (482, 21593), (498, 21638), (548, 21791), (556, 21836), (561, 21848), (565, 21857), (574, 21893), (577, 21908), (619, 22088), (624, 22103), (641, 22172), (646, 22184), (670, 22247), (682, 22289), (691, 22328), (692, 22334), (695, 22343), (700, 22364), (715, 22424), (745, 22541), (755, 22583), (783, 22655), (785, 22664), (792, 22685), (808, 22757), (813, 22778), (833, 22874), (894, 23102), (912, 23249),

Gene: Troll4_30 Start: 24317, Stop: 26587, Start Num: 291

Candidate Starts for Troll4_30:

(Start: 291 @24317 has 22 MA's), (340, 24452), (344, 24461), (392, 24635), (394, 24641), (399, 24653), (465, 24806), (474, 24821), (482, 24836), (594, 25217), (595, 25223), (608, 25268), (631, 25355), (694, 25556), (696, 25562), (705, 25610), (710, 25640), (717, 25664), (764, 25853), (775, 25880), (789, 25928), (806, 26000), (816, 26039), (818, 26060), (821, 26075), (825, 26093), (829, 26123), (850, 26207), (907, 26408), (912, 26450), (937, 26576),

Gene: TruffulaTree_27 Start: 20875, Stop: 23307, Start Num: 151

Candidate Starts for TruffulaTree_27:

(Start: 151 @20875 has 97 MA's), (214, 20974), (339, 21235), (346, 21256), (416, 21463), (431, 21496), (439, 21526), (473, 21598), (482, 21622), (498, 21667), (548, 21820), (556, 21865), (561, 21877), (565, 21886), (577, 21937), (619, 22117), (624, 22132), (641, 22201), (646, 22213), (670, 22276), (682, 22318), (691, 22357), (692, 22363), (695, 22372), (700, 22393), (715, 22453), (745, 22570), (755, 22612), (783, 22684), (785, 22693), (792, 22714), (808, 22786), (813, 22807), (833, 22903), (848, 22966), (894, 23131), (912, 23278),

Gene: Tuco_27 Start: 22799, Stop: 25195, Start Num: 148

Candidate Starts for Tuco_27:

(Start: 148 @22799 has 132 MA's), (248, 22976), (259, 22997), (342, 23144), (382, 23285), (391, 23318), (404, 23351), (420, 23387), (479, 23480), (501, 23540), (508, 23558), (538, 23639), (598, 23867), (610, 23912), (677, 24107), (679, 24113), (682, 24122), (691, 24167), (695, 24182), (734, 24338), (737, 24356), (740, 24365), (755, 24419), (780, 24494), (781, 24497), (832, 24707), (834, 24719), (871, 24833), (912, 25049), (926, 25133), (931, 25157), (933, 25166),

Gene: Tweety_18 Start: 17451, Stop: 19988, Start Num: 100

Candidate Starts for Tweety_18:

(96, 17439), (Start: 100 @17451 has 238 MA's), (113, 17472), (Start: 125 @17493 has 1 MA's), (142, 17532), (188, 17601), (194, 17610), (196, 17613), (204, 17631), (222, 17664), (233, 17679), (257, 17727), (307, 17838), (308, 17841), (325, 17871), (330, 17886), (357, 17964), (362, 17988), (380, 18054), (392, 18099), (404, 18129), (407, 18135), (416, 18153), (428, 18177), (432, 18186), (456, 18219), (461, 18225), (479, 18255), (495, 18294), (498, 18306), (501, 18315), (507, 18330), (508, 18333), (548, 18444), (549, 18447), (550, 18456), (551, 18462), (554, 18477), (555, 18480), (561, 18501), (573, 18531), (576, 18543), (585, 18576), (598, 18642), (610, 18687), (611, 18690), (621, 18717), (623, 18723), (636, 18777), (637, 18780), (674, 18867), (677, 18882), (681, 18894), (682, 18897), (697, 18963), (702, 18987), (705, 19008), (707, 19017), (719, 19059), (724, 19077), (725, 19080), (734, 19116), (737, 19134), (743, 19146), (745, 19155), (751, 19182), (776, 19251), (780, 19269), (784, 19278), (786, 19290), (797, 19326), (804, 19356), (809, 19377), (816, 19401), (823, 19437), (833, 19491), (849, 19551), (858, 19593), (896, 19728), (900, 19752), (908, 19806), (912, 19854), (922, 19896), (925, 19920), (926, 19923),

Gene: Twitch_27 Start: 20912, Stop: 23344, Start Num: 151

Candidate Starts for Twitch_27:

(Start: 151 @20912 has 97 MA's), (214, 21011), (339, 21272), (346, 21293), (416, 21500), (431, 21533), (439, 21563), (473, 21635), (482, 21659), (548, 21857), (556, 21902), (561, 21914), (565, 21923), (577, 21974), (619, 22154), (624, 22169), (641, 22238), (646, 22250), (670, 22313), (682, 22355), (691, 22394), (692, 22400), (695, 22409), (700, 22430), (715, 22490), (745, 22607), (755, 22649), (783, 22721), (785, 22730), (792, 22751), (808, 22823), (813, 22844), (833, 22940), (872, 23087), (894, 23168), (912, 23315),

Gene: Tyson_20 Start: 18997, Stop: 21678, Start Num: 79

Candidate Starts for Tyson_20:

(Start: 79 @18997 has 19 MA's), (81, 19003), (164, 19180), (182, 19210), (215, 19273), (249, 19348), (304, 19462), (306, 19468), (333, 19534), (354, 19597), (363, 19630), (365, 19633), (372, 19657),

(378, 19681), (380, 19687), (381, 19693), (395, 19741), (404, 19762), (412, 19777), (421, 19798), (437, 19837), (442, 19849), (450, 19867), (488, 19942), (497, 19972), (506, 19996), (507, 19999), (525, 20044), (542, 20095), (549, 20113), (561, 20167), (579, 20239), (583, 20251), (586, 20260), (592, 20302), (599, 20332), (607, 20368), (611, 20386), (617, 20401), (618, 20407), (628, 20440), (670, 20569), (673, 20578), (691, 20659), (699, 20695), (701, 20701), (726, 20806), (729, 20815), (734, 20830), (737, 20848), (750, 20890), (782, 20986), (784, 20992), (797, 21046), (798, 21052), (801, 21064), (826, 21175), (830, 21205), (831, 21211), (837, 21241), (853, 21307), (855, 21313), (860, 21337), (863, 21343), (864, 21349), (877, 21394), (878, 21403), (881, 21412), (893, 21451), (898, 21487), (900, 21496), (901, 21511), (913, 21607), (921, 21658), (922, 21664),

Gene: UPIE_20 Start: 18995, Stop: 21676, Start Num: 79

Candidate Starts for UPIE_20:

(Start: 79 @18995 has 19 MA's), (81, 19001), (164, 19178), (182, 19208), (215, 19271), (249, 19346), (273, 19400), (304, 19460), (306, 19466), (333, 19532), (354, 19595), (363, 19628), (365, 19631), (372, 19655), (380, 19685), (381, 19691), (395, 19739), (404, 19760), (412, 19775), (421, 19796), (437, 19835), (442, 19847), (450, 19865), (477, 19922), (488, 19940), (497, 19970), (506, 19994), (507, 19997), (525, 20042), (542, 20093), (549, 20111), (561, 20165), (579, 20237), (583, 20249), (586, 20258), (592, 20300), (599, 20330), (607, 20366), (611, 20384), (617, 20399), (618, 20405), (628, 20438), (670, 20567), (673, 20576), (691, 20657), (699, 20693), (701, 20699), (726, 20804), (729, 20813), (734, 20828), (737, 20846), (750, 20888), (782, 20984), (784, 20990), (797, 21044), (798, 21050), (801, 21062), (826, 21173), (830, 21203), (831, 21209), (837, 21239), (853, 21305), (855, 21311), (860, 21335), (863, 21341), (864, 21347), (877, 21392), (878, 21401), (881, 21410), (893, 21449), (898, 21485), (900, 21494), (901, 21509), (913, 21605), (921, 21656), (922, 21662),

Gene: Ukulele_26 Start: 22042, Stop: 24438, Start Num: 148

Candidate Starts for Ukulele_26:

(Start: 148 @22042 has 132 MA's), (248, 22219), (259, 22240), (342, 22387), (391, 22561), (404, 22594), (420, 22630), (479, 22723), (501, 22783), (508, 22801), (552, 22933), (566, 22978), (598, 23110), (610, 23155), (630, 23215), (672, 23329), (677, 23350), (688, 23389), (691, 23410), (695, 23425), (732, 23575), (734, 23581), (737, 23599), (752, 23653), (780, 23737), (807, 23830), (871, 24076), (912, 24292), (926, 24376), (933, 24409),

Gene: UncleRicky_19 Start: 17219, Stop: 19756, Start Num: 100

Candidate Starts for UncleRicky_19:

(96, 17207), (Start: 100 @17219 has 238 MA's), (113, 17240), (Start: 125 @17261 has 1 MA's), (142, 17300), (188, 17369), (194, 17378), (196, 17381), (204, 17399), (222, 17432), (233, 17447), (257, 17495), (303, 17600), (308, 17609), (329, 17651), (330, 17654), (357, 17732), (362, 17756), (380, 17822), (392, 17867), (404, 17897), (407, 17903), (416, 17921), (428, 17945), (432, 17954), (456, 17987), (461, 17993), (479, 18023), (495, 18062), (498, 18074), (501, 18083), (507, 18098), (508, 18101), (548, 18212), (550, 18224), (551, 18230), (554, 18245), (555, 18248), (561, 18269), (573, 18299), (576, 18311), (585, 18344), (598, 18410), (610, 18455), (611, 18458), (621, 18485), (623, 18491), (636, 18545), (637, 18548), (652, 18575), (677, 18650), (681, 18662), (682, 18665), (697, 18731), (702, 18755), (707, 18785), (719, 18827), (724, 18845), (725, 18848), (734, 18884), (737, 18902), (745, 18923), (751, 18950), (776, 19019), (780, 19037), (784, 19046), (786, 19058), (797, 19094), (804, 19124), (807, 19133), (809, 19145), (823, 19205), (833, 19259), (849, 19319), (858, 19361), (880, 19439), (896, 19496), (900, 19520), (908, 19574), (912, 19622), (922, 19664), (925, 19688), (926, 19691),

Gene: Urkel_27 Start: 20840, Stop: 23272, Start Num: 151

Candidate Starts for Urkel_27:

(141, 20822), (Start: 151 @20840 has 97 MA's), (171, 20888), (214, 20939), (339, 21200), (346, 21221), (429, 21458), (431, 21461), (439, 21491), (440, 21494), (473, 21563), (482, 21587), (483, 21593), (488, 21599), (498, 21632), (548, 21785), (561, 21842), (565, 21851), (577, 21902), (619,

22082), (624, 22097), (641, 22166), (646, 22178), (664, 22214), (670, 22241), (682, 22283), (691, 22322), (692, 22328), (695, 22337), (700, 22358), (715, 22418), (724, 22451), (727, 22469), (745, 22535), (755, 22577), (783, 22649), (785, 22658), (792, 22679), (808, 22751), (833, 22868), (872, 23015), (894, 23096), (904, 23171), (912, 23243),

Gene: VRedHorse_18 Start: 17564, Stop: 20101, Start Num: 100

Candidate Starts for VRedHorse_18:

(96, 17552), (Start: 100 @17564 has 238 MA's), (113, 17585), (Start: 125 @17606 has 1 MA's), (140, 17642), (142, 17645), (188, 17714), (194, 17723), (196, 17726), (204, 17744), (222, 17777), (233, 17792), (257, 17840), (303, 17945), (307, 17951), (308, 17954), (329, 17996), (330, 17999), (362, 18101), (380, 18167), (392, 18212), (404, 18242), (407, 18248), (416, 18266), (428, 18290), (432, 18299), (456, 18332), (461, 18338), (488, 18389), (495, 18407), (498, 18419), (501, 18428), (507, 18443), (509, 18449), (548, 18557), (550, 18569), (551, 18575), (554, 18590), (555, 18593), (561, 18614), (573, 18644), (576, 18656), (585, 18689), (598, 18755), (610, 18800), (611, 18803), (621, 18830), (623, 18836), (636, 18890), (637, 18893), (677, 18995), (681, 19007), (682, 19010), (697, 19076), (702, 19100), (705, 19121), (707, 19130), (724, 19190), (725, 19193), (734, 19229), (737, 19247), (745, 19268), (751, 19295), (776, 19364), (780, 19382), (784, 19391), (786, 19403), (797, 19439), (809, 19490), (814, 19508), (823, 19550), (833, 19604), (858, 19706), (880, 19784), (896, 19841), (900, 19865), (908, 19919), (912, 19967), (925, 20033), (926, 20036),

Gene: Vagabond_58 Start: 35926, Stop: 38436, Start Num: 114

Candidate Starts for Vagabond_58:

(Start: 114 @35926 has 34 MA's), (128, 35959), (163, 36028), (165, 36031), (179, 36055), (196, 36079), (209, 36103), (222, 36136), (310, 36343), (315, 36355), (316, 36358), (368, 36505), (373, 36535), (380, 36559), (392, 36589), (393, 36592), (404, 36619), (416, 36643), (431, 36673), (468, 36730), (481, 36754), (495, 36790), (498, 36802), (507, 36826), (508, 36829), (520, 36871), (554, 36967), (555, 36970), (627, 37225), (677, 37369), (691, 37429), (704, 37501), (705, 37504), (730, 37600), (780, 37774), (786, 37795), (812, 37888), (815, 37900), (833, 37990), (854, 38065), (879, 38110), (917, 38311), (924, 38365), (929, 38380),

Gene: Veliki_27 Start: 20915, Stop: 23347, Start Num: 151

Candidate Starts for Veliki_27:

(Start: 151 @20915 has 97 MA's), (214, 21014), (339, 21275), (346, 21296), (416, 21503), (431, 21536), (439, 21566), (473, 21638), (482, 21662), (498, 21707), (548, 21860), (556, 21905), (561, 21917), (565, 21926), (577, 21977), (619, 22157), (624, 22172), (641, 22241), (646, 22253), (682, 22358), (691, 22397), (692, 22403), (695, 22412), (715, 22493), (726, 22541), (746, 22616), (755, 22652), (785, 22733), (792, 22754), (813, 22847), (833, 22943), (872, 23090), (882, 23132), (894, 23171), (904, 23246),

Gene: Velveteen_19 Start: 17226, Stop: 20090, Start Num: 53

Candidate Starts for Velveteen_19:

(Start: 53 @17226 has 9 MA's), (62, 17247), (64, 17268), (69, 17307), (87, 17376), (89, 17385), (91, 17388), (116, 17439), (155, 17529), (181, 17580), (221, 17664), (226, 17676), (236, 17697), (250, 17730), (301, 17877), (326, 17940), (338, 17979), (347, 18003), (352, 18018), (355, 18027), (362, 18054), (370, 18060), (392, 18129), (400, 18150), (403, 18156), (420, 18192), (430, 18210), (464, 18303), (475, 18324), (488, 18348), (513, 18414), (518, 18435), (526, 18453), (539, 18486), (546, 18513), (556, 18564), (572, 18600), (575, 18624), (583, 18660), (586, 18669), (588, 18684), (592, 18711), (599, 18741), (607, 18777), (613, 18801), (640, 18900), (656, 18939), (668, 18978), (675, 18999), (699, 19110), (704, 19137), (712, 19167), (719, 19188), (722, 19200), (724, 19206), (737, 19263), (784, 19407), (788, 19425), (798, 19467), (801, 19479), (833, 19635), (853, 19722), (860, 19752), (863, 19758), (878, 19818), (884, 19836), (900, 19911), (903, 19932), (908, 19968), (923, 20082),

Gene: Veteran_18 Start: 17402, Stop: 19939, Start Num: 100

Candidate Starts for Veteran_18:

(Start: 100 @17402 has 238 MA's), (113, 17423), (Start: 125 @17444 has 1 MA's), (142, 17483), (188, 17552), (194, 17561), (196, 17564), (204, 17582), (222, 17615), (233, 17630), (303, 17783), (308, 17792), (330, 17837), (361, 17936), (362, 17939), (380, 18005), (404, 18080), (407, 18086), (428, 18128), (431, 18134), (432, 18137), (456, 18170), (461, 18176), (479, 18206), (488, 18227), (498, 18257), (501, 18266), (507, 18281), (508, 18284), (548, 18395), (549, 18398), (550, 18407), (551, 18413), (554, 18428), (555, 18431), (561, 18452), (573, 18482), (576, 18494), (585, 18527), (610, 18638), (611, 18641), (621, 18668), (623, 18674), (636, 18728), (637, 18731), (674, 18818), (677, 18833), (681, 18845), (682, 18848), (697, 18914), (702, 18938), (705, 18959), (707, 18968), (719, 19010), (724, 19028), (725, 19031), (732, 19061), (737, 19085), (743, 19097), (745, 19106), (776, 19202), (780, 19220), (784, 19229), (786, 19241), (797, 19277), (804, 19307), (807, 19316), (809, 19328), (823, 19388), (833, 19442), (849, 19502), (858, 19544), (896, 19679), (900, 19703), (908, 19757), (912, 19805), (922, 19847), (925, 19871), (926, 19874),

Gene: Vic9_00032 Start: 30412, Stop: 33132, Start Num: 75

Candidate Starts for Vic9_00032:

(Start: 75 @30412 has 36 MA's), (94, 30466), (117, 30505), (126, 30523), (138, 30550), (149, 30574), (152, 30577), (166, 30610), (225, 30718), (237, 30739), (238, 30742), (261, 30796), (288, 30856), (299, 30880), (313, 30916), (331, 30964), (336, 30985), (351, 31024), (362, 31063), (369, 31078), (381, 31132), (385, 31144), (392, 31168), (402, 31192), (408, 31204), (415, 31219), (422, 31234), (438, 31276), (446, 31294), (458, 31333), (470, 31357), (539, 31528), (556, 31606), (575, 31666), (583, 31702), (584, 31705), (599, 31783), (607, 31819), (613, 31843), (640, 31942), (656, 31981), (673, 32035), (699, 32152), (704, 32179), (722, 32242), (724, 32248), (726, 32263), (737, 32305), (765, 32392), (784, 32449), (788, 32467), (798, 32509), (801, 32521), (824, 32626), (827, 32644), (830, 32662), (833, 32677), (853, 32764), (860, 32794), (863, 32800), (878, 32860), (900, 32953), (901, 32968), (908, 33010), (923, 33124),

Gene: Violac_19 Start: 17946, Stop: 20471, Start Num: 100

Candidate Starts for Violac_19:

(Start: 100 @17946 has 238 MA's), (113, 17967), (123, 17988), (142, 18027), (188, 18096), (194, 18105), (196, 18108), (204, 18126), (233, 18174), (257, 18222), (307, 18333), (308, 18336), (326, 18369), (330, 18381), (357, 18459), (373, 18525), (382, 18558), (399, 18612), (404, 18624), (428, 18672), (431, 18678), (432, 18681), (436, 18690), (462, 18723), (486, 18762), (488, 18765), (493, 18780), (495, 18783), (504, 18810), (506, 18816), (507, 18819), (508, 18822), (517, 18849), (522, 18867), (523, 18870), (550, 18945), (554, 18966), (555, 18969), (564, 18996), (573, 19020), (585, 19065), (586, 19068), (594, 19119), (611, 19182), (614, 19191), (622, 19215), (664, 19320), (665, 19323), (677, 19374), (679, 19380), (681, 19386), (682, 19389), (691, 19434), (695, 19449), (701, 19476), (705, 19500), (707, 19509), (724, 19569), (725, 19572), (726, 19584), (737, 19626), (743, 19638), (780, 19761), (798, 19824), (814, 19887), (828, 19962), (885, 20163), (912, 20334), (921, 20373), (928, 20412), (929, 20415),

Gene: Visconti_30 Start: 24326, Stop: 26596, Start Num: 291

Candidate Starts for Visconti_30:

(Start: 291 @24326 has 22 MA's), (340, 24461), (344, 24470), (392, 24644), (394, 24650), (399, 24662), (465, 24815), (474, 24830), (482, 24845), (594, 25226), (595, 25232), (608, 25277), (631, 25364), (694, 25565), (696, 25571), (705, 25619), (710, 25649), (717, 25673), (764, 25862), (775, 25889), (789, 25937), (806, 26009), (816, 26048), (818, 26069), (821, 26084), (825, 26102), (829, 26132), (850, 26216), (907, 26417), (912, 26459), (937, 26585),

Gene: Vivum_18 Start: 17344, Stop: 19881, Start Num: 100

Candidate Starts for Vivum_18:

(Start: 100 @17344 has 238 MA's), (113, 17365), (Start: 125 @17386 has 1 MA's), (142, 17425), (188, 17494), (194, 17503), (196, 17506), (204, 17524), (233, 17572), (303, 17725), (308, 17734), (330, 17779), (361, 17878), (362, 17881), (380, 17947), (404, 18022), (407, 18028), (416, 18046), (428, 18070), (431, 18076), (432, 18079), (456, 18112), (461, 18118), (479, 18148), (488, 18169), (498, 18199), (501, 18208), (507, 18223), (508, 18226), (548, 18337), (549, 18340), (550, 18349), (551, 18355), (554, 18370), (555, 18373), (561, 18394), (573, 18424), (576, 18436), (585, 18469), (610, 18580), (611, 18583), (621, 18610), (623, 18616), (636, 18670), (637, 18673), (677, 18775), (681, 18787), (682, 18790), (697, 18856), (702, 18880), (705, 18901), (707, 18910), (724, 18970), (725, 18973), (734, 19009), (737, 19027), (743, 19039), (745, 19048), (751, 19075), (773, 19132), (776, 19144), (780, 19162), (784, 19171), (786, 19183), (797, 19219), (804, 19249), (807, 19258), (809, 19270), (823, 19330), (833, 19384), (849, 19444), (858, 19486), (896, 19621), (900, 19645), (908, 19699), (912, 19747), (922, 19789), (925, 19813), (926, 19816),

Gene: Vorrps_58 Start: 36138, Stop: 38648, Start Num: 114

Candidate Starts for Vorrps_58:

(Start: 114 @36138 has 34 MA's), (128, 36171), (163, 36240), (165, 36243), (179, 36267), (196, 36291), (209, 36315), (222, 36348), (310, 36555), (315, 36567), (316, 36570), (368, 36717), (373, 36747), (380, 36771), (392, 36801), (393, 36804), (404, 36831), (416, 36855), (431, 36885), (468, 36942), (481, 36966), (495, 37002), (498, 37014), (507, 37038), (508, 37041), (520, 37083), (554, 37179), (555, 37182), (627, 37437), (677, 37581), (691, 37641), (704, 37713), (705, 37716), (730, 37812), (780, 37986), (786, 38007), (812, 38100), (815, 38112), (833, 38202), (854, 38277), (879, 38322), (917, 38523), (924, 38577), (929, 38592),

Gene: Wachhund_18 Start: 17422, Stop: 19959, Start Num: 100

Candidate Starts for Wachhund_18:

(Start: 100 @17422 has 238 MA's), (113, 17443), (Start: 125 @17464 has 1 MA's), (142, 17503), (188, 17572), (194, 17581), (196, 17584), (204, 17602), (233, 17650), (307, 17809), (308, 17812), (330, 17857), (357, 17935), (361, 17956), (362, 17959), (380, 18025), (404, 18100), (407, 18106), (428, 18148), (431, 18154), (432, 18157), (456, 18190), (461, 18196), (479, 18226), (488, 18247), (498, 18277), (501, 18286), (540, 18394), (548, 18415), (549, 18418), (550, 18427), (551, 18433), (554, 18448), (555, 18451), (561, 18472), (573, 18502), (576, 18514), (585, 18547), (610, 18658), (611, 18661), (621, 18688), (623, 18694), (636, 18748), (637, 18751), (674, 18838), (677, 18853), (681, 18865), (682, 18868), (697, 18934), (705, 18979), (707, 18988), (724, 19048), (725, 19051), (734, 19087), (737, 19105), (743, 19117), (745, 19126), (751, 19153), (776, 19222), (780, 19240), (784, 19249), (786, 19261), (797, 19297), (804, 19327), (809, 19348), (816, 19372), (823, 19408), (833, 19462), (849, 19522), (858, 19564), (896, 19699), (900, 19723), (908, 19777), (912, 19825), (922, 19867), (925, 19891), (926, 19894),

Gene: WaldoWhy_31 Start: 24322, Stop: 26592, Start Num: 291

Candidate Starts for WaldoWhy_31:

(Start: 291 @24322 has 22 MA's), (340, 24457), (344, 24466), (392, 24640), (394, 24646), (399, 24658), (465, 24811), (474, 24826), (482, 24841), (594, 25222), (595, 25228), (608, 25273), (631, 25360), (694, 25561), (696, 25567), (705, 25615), (710, 25645), (717, 25669), (764, 25858), (775, 25885), (789, 25933), (806, 26005), (816, 26044), (818, 26065), (821, 26080), (825, 26098), (829, 26128), (850, 26212), (907, 26413), (912, 26455), (937, 26581),

Gene: Wamburgxpress_20 Start: 19010, Stop: 21691, Start Num: 79

Candidate Starts for Wamburgxpress_20:

(Start: 79 @19010 has 19 MA's), (81, 19016), (164, 19193), (182, 19223), (215, 19286), (249, 19361), (304, 19475), (306, 19481), (333, 19547), (354, 19610), (363, 19643), (365, 19646), (372, 19670), (378, 19694), (380, 19700), (381, 19706), (395, 19754), (404, 19775), (412, 19790), (421, 19811), (437, 19850), (442, 19862), (450, 19880), (488, 19955), (497, 19985), (506, 20009), (507, 20012), (525, 20057), (542, 20108), (549, 20126), (561, 20180), (579, 20252), (583, 20264), (586, 20273),

(592, 20315), (599, 20345), (607, 20381), (611, 20399), (617, 20414), (618, 20420), (628, 20453), (670, 20582), (673, 20591), (691, 20672), (699, 20708), (701, 20714), (726, 20819), (729, 20828), (734, 20843), (737, 20861), (750, 20903), (782, 20999), (784, 21005), (797, 21059), (798, 21065), (801, 21077), (826, 21188), (830, 21218), (831, 21224), (837, 21254), (853, 21320), (855, 21326), (860, 21350), (863, 21356), (864, 21362), (877, 21407), (878, 21416), (881, 21425), (893, 21464), (898, 21500), (900, 21509), (901, 21524), (913, 21620), (921, 21671), (922, 21677),

Gene: Wanda_39 Start: 29807, Stop: 32362, Start Num: 100

Candidate Starts for Wanda_39:

(Start: 100 @29807 has 238 MA's), (204, 30002), (222, 30038), (233, 30053), (257, 30101), (307, 30212), (308, 30215), (325, 30245), (330, 30260), (357, 30338), (362, 30362), (380, 30428), (392, 30473), (404, 30503), (407, 30509), (416, 30527), (428, 30551), (432, 30560), (456, 30593), (461, 30599), (479, 30629), (495, 30668), (498, 30680), (501, 30689), (507, 30704), (508, 30707), (548, 30818), (549, 30821), (550, 30830), (551, 30836), (554, 30851), (555, 30854), (561, 30875), (573, 30905), (576, 30917), (585, 30950), (598, 31016), (610, 31061), (611, 31064), (621, 31091), (623, 31097), (636, 31151), (637, 31154), (674, 31241), (677, 31256), (681, 31268), (682, 31271), (697, 31337), (705, 31382), (707, 31391), (724, 31451), (725, 31454), (734, 31490), (737, 31508), (743, 31520), (745, 31529), (751, 31556), (776, 31625), (780, 31643), (784, 31652), (786, 31664), (797, 31700), (804, 31730), (809, 31751), (816, 31775), (823, 31811), (833, 31865), (849, 31925), (858, 31967), (896, 32102), (900, 32126), (908, 32180), (912, 32228), (922, 32270), (925, 32294), (926, 32297),

Gene: Wee_19 Start: 17971, Stop: 20508, Start Num: 100

Candidate Starts for Wee_19:

(96, 17959), (Start: 100 @17971 has 238 MA's), (113, 17992), (Start: 125 @18013 has 1 MA's), (142, 18052), (188, 18121), (194, 18130), (196, 18133), (204, 18151), (222, 18184), (233, 18199), (257, 18247), (303, 18352), (307, 18358), (308, 18361), (329, 18403), (330, 18406), (357, 18484), (380, 18574), (392, 18619), (404, 18649), (407, 18655), (416, 18673), (428, 18697), (432, 18706), (456, 18739), (461, 18745), (479, 18775), (495, 18814), (498, 18826), (501, 18835), (507, 18850), (508, 18853), (548, 18964), (549, 18967), (550, 18976), (551, 18982), (554, 18997), (555, 19000), (561, 19021), (573, 19051), (576, 19063), (585, 19096), (598, 19162), (610, 19207), (611, 19210), (621, 19237), (623, 19243), (636, 19297), (637, 19300), (674, 19387), (677, 19402), (681, 19414), (682, 19417), (697, 19483), (705, 19528), (707, 19537), (724, 19597), (725, 19600), (734, 19636), (737, 19654), (743, 19666), (745, 19675), (751, 19702), (776, 19771), (780, 19789), (784, 19798), (786, 19810), (797, 19846), (804, 19876), (809, 19897), (816, 19921), (823, 19957), (833, 20011), (849, 20071), (858, 20113), (896, 20248), (900, 20272), (908, 20326), (912, 20374), (922, 20416), (925, 20440), (926, 20443),

Gene: Weirdo19_22 Start: 19521, Stop: 21416, Start Num: 410

Candidate Starts for Weirdo19_22:

(408, 19515), (410, 19521), (455, 19635), (462, 19647), (508, 19758), (515, 19779), (521, 19800), (526, 19818), (574, 19962), (576, 19971), (578, 19986), (595, 20070), (626, 20175), (640, 20232), (649, 20247), (657, 20256), (659, 20259), (661, 20265), (683, 20337), (688, 20361), (690, 20376), (711, 20490), (717, 20511), (743, 20616), (754, 20667), (756, 20679), (771, 20703), (800, 20808), (806, 20829), (822, 20898), (834, 20964), (841, 20988), (909, 21234), (918, 21297), (928, 21357), (933, 21387), (935, 21393), (937, 21405),

Gene: Weiss13_30 Start: 24327, Stop: 27827, Start Num: 2

Candidate Starts for Weiss13_30:

(Start: 2 @24327 has 9 MA's), (4, 24339), (Start: 5 @24351 has 1 MA's), (8, 24534), (12, 24615), (18, 24714), (20, 24738), (21, 24756), (39, 24915), (41, 24948), (52, 24996), (57, 25011), (63, 25035), (92, 25161), (Start: 97 @25170 has 9 MA's), (183, 25356), (278, 25557), (345, 25734), (373, 25833), (382, 25866), (396, 25911), (401, 25923), (419, 25965), (427, 25977), (467, 26043), (501, 26127), (506,

26142), (516, 26172), (551, 26277), (568, 26328), (580, 26373), (590, 26418), (600, 26463), (606, 26484), (610, 26502), (611, 26505), (613, 26511), (614, 26514), (663, 26652), (675, 26700), (676, 26706), (690, 26766), (695, 26787), (716, 26880), (729, 26940), (732, 26949), (734, 26955), (738, 26976), (772, 27081), (789, 27141), (807, 27207), (809, 27219), (814, 27237), (816, 27243), (875, 27477), (882, 27516), (895, 27561), (899, 27591), (911, 27684), (918, 27711),

Gene: West99_32 Start: 30088, Stop: 32808, Start Num: 75

Candidate Starts for West99_32:

(Start: 75 @30088 has 36 MA's), (94, 30142), (117, 30181), (138, 30226), (149, 30250), (152, 30253), (166, 30286), (225, 30394), (237, 30415), (238, 30418), (261, 30472), (288, 30532), (299, 30556), (313, 30592), (331, 30640), (336, 30661), (351, 30700), (362, 30739), (369, 30754), (381, 30808), (385, 30820), (392, 30844), (402, 30868), (408, 30880), (415, 30895), (422, 30910), (438, 30952), (446, 30970), (458, 31009), (470, 31033), (539, 31204), (556, 31282), (575, 31342), (583, 31378), (584, 31381), (599, 31459), (607, 31495), (613, 31519), (620, 31540), (673, 31711), (675, 31717), (699, 31828), (704, 31855), (722, 31918), (724, 31924), (726, 31939), (737, 31981), (765, 32068), (776, 32095), (784, 32125), (788, 32143), (795, 32164), (796, 32173), (797, 32179), (798, 32185), (801, 32197), (824, 32302), (827, 32320), (833, 32353), (853, 32440), (860, 32470), (863, 32476), (878, 32536), (900, 32629), (901, 32644), (908, 32686), (923, 32800),

Gene: Whatsapiecost_18 Start: 17447, Stop: 19984, Start Num: 100

Candidate Starts for Whatsapiecost_18:

(96, 17435), (Start: 100 @17447 has 238 MA's), (113, 17468), (Start: 125 @17489 has 1 MA's), (142, 17528), (188, 17597), (194, 17606), (196, 17609), (204, 17627), (222, 17660), (233, 17675), (257, 17723), (307, 17834), (308, 17837), (325, 17867), (329, 17879), (330, 17882), (357, 17960), (362, 17984), (380, 18050), (392, 18095), (404, 18125), (407, 18131), (416, 18149), (428, 18173), (432, 18182), (456, 18215), (461, 18221), (479, 18251), (495, 18290), (498, 18302), (501, 18311), (507, 18326), (508, 18329), (548, 18440), (549, 18443), (550, 18452), (551, 18458), (554, 18473), (555, 18476), (561, 18497), (573, 18527), (576, 18539), (585, 18572), (610, 18683), (611, 18686), (621, 18713), (623, 18719), (636, 18773), (637, 18776), (677, 18878), (681, 18890), (682, 18893), (697, 18959), (702, 18983), (705, 19004), (707, 19013), (724, 19073), (725, 19076), (734, 19112), (737, 19130), (743, 19142), (745, 19151), (751, 19178), (776, 19247), (780, 19265), (784, 19274), (786, 19286), (797, 19322), (804, 19352), (809, 19373), (816, 19397), (823, 19433), (833, 19487), (849, 19547), (858, 19589), (880, 19667), (896, 19724), (900, 19748), (908, 19802), (912, 19850), (922, 19892), (925, 19916), (926, 19919),

Gene: Whouxphf_18 Start: 17504, Stop: 20041, Start Num: 100

Candidate Starts for Whouxphf_18:

(Start: 100 @17504 has 238 MA's), (113, 17525), (Start: 125 @17546 has 1 MA's), (142, 17585), (188, 17654), (194, 17663), (196, 17666), (204, 17684), (233, 17732), (307, 17891), (308, 17894), (330, 17939), (361, 18038), (362, 18041), (404, 18182), (407, 18188), (428, 18230), (431, 18236), (432, 18239), (456, 18272), (461, 18278), (479, 18308), (488, 18329), (498, 18359), (501, 18368), (540, 18476), (545, 18488), (548, 18497), (549, 18500), (550, 18509), (551, 18515), (554, 18530), (555, 18533), (561, 18554), (576, 18596), (585, 18629), (621, 18770), (623, 18776), (636, 18830), (637, 18833), (652, 18860), (677, 18935), (681, 18947), (682, 18950), (697, 19016), (702, 19040), (705, 19061), (707, 19070), (719, 19112), (724, 19130), (725, 19133), (732, 19163), (737, 19187), (745, 19208), (776, 19304), (780, 19322), (784, 19331), (786, 19343), (797, 19379), (804, 19409), (807, 19418), (809, 19430), (823, 19490), (858, 19646), (880, 19724), (896, 19781), (900, 19805), (908, 19859), (912, 19907), (918, 19928), (925, 19973), (926, 19976),

Gene: Wiggin_29 Start: 22788, Stop: 25184, Start Num: 148

Candidate Starts for Wiggin_29:

(Start: 148 @22788 has 132 MA's), (248, 22965), (259, 22986), (342, 23133), (391, 23307), (404, 23340), (420, 23376), (479, 23469), (501, 23529), (508, 23547), (552, 23679), (566, 23724), (598,

23856), (610, 23901), (630, 23961), (672, 24075), (677, 24096), (688, 24135), (691, 24156), (695, 24171), (732, 24321), (734, 24327), (737, 24345), (752, 24399), (780, 24483), (807, 24576), (871, 24822), (912, 25038), (926, 25122), (933, 25155),

Gene: Wildcat_43 Start: 28342, Stop: 30909, Start Num: 102

Candidate Starts for Wildcat_43:

(Start: 102 @28342 has 6 MA's), (132, 28411), (200, 28534), (203, 28540), (204, 28543), (219, 28567), (230, 28588), (302, 28744), (305, 28750), (308, 28756), (320, 28786), (322, 28792), (330, 28813), (334, 28822), (353, 28882), (375, 28960), (407, 29059), (422, 29092), (431, 29107), (432, 29110), (461, 29149), (488, 29200), (495, 29218), (501, 29239), (504, 29245), (514, 29272), (520, 29299), (548, 29368), (553, 29392), (556, 29413), (567, 29434), (571, 29443), (576, 29464), (585, 29497), (586, 29500), (594, 29551), (598, 29563), (618, 29629), (624, 29647), (632, 29686), (677, 29803), (689, 29848), (701, 29905), (705, 29929), (707, 29938), (711, 29956), (724, 30001), (732, 30034), (739, 30070), (794, 30244), (797, 30262), (798, 30268), (813, 30325), (895, 30649), (897, 30667), (905, 30718), (914, 30781), (925, 30856),

Gene: Wildflower_58 Start: 35650, Stop: 38160, Start Num: 114

Candidate Starts for Wildflower_58:

(Start: 114 @35650 has 34 MA's), (128, 35683), (163, 35752), (165, 35755), (179, 35779), (196, 35803), (209, 35827), (222, 35860), (310, 36067), (315, 36079), (316, 36082), (368, 36229), (373, 36259), (380, 36283), (392, 36313), (393, 36316), (404, 36343), (416, 36367), (431, 36397), (468, 36454), (495, 36514), (498, 36526), (507, 36550), (508, 36553), (520, 36595), (554, 36691), (555, 36694), (627, 36949), (677, 37093), (691, 37153), (704, 37225), (705, 37228), (730, 37324), (780, 37498), (786, 37519), (812, 37612), (815, 37624), (833, 37714), (854, 37789), (879, 37834), (917, 38035), (924, 38089), (929, 38104),

Gene: WillSterrel_19 Start: 18757, Stop: 21294, Start Num: 100

Candidate Starts for WillSterrel_19:

(Start: 100 @18757 has 238 MA's), (113, 18778), (Start: 125 @18799 has 1 MA's), (142, 18838), (188, 18907), (194, 18916), (196, 18919), (204, 18937), (233, 18985), (303, 19138), (308, 19147), (330, 19192), (361, 19291), (362, 19294), (380, 19360), (404, 19435), (407, 19441), (416, 19459), (428, 19483), (431, 19489), (432, 19492), (456, 19525), (461, 19531), (479, 19561), (488, 19582), (498, 19612), (501, 19621), (507, 19636), (508, 19639), (548, 19750), (549, 19753), (550, 19762), (551, 19768), (554, 19783), (555, 19786), (561, 19807), (573, 19837), (576, 19849), (585, 19882), (610, 19993), (611, 19996), (621, 20023), (623, 20029), (636, 20083), (637, 20086), (674, 20173), (677, 20188), (681, 20200), (682, 20203), (697, 20269), (702, 20293), (705, 20314), (707, 20323), (724, 20383), (725, 20386), (734, 20422), (737, 20440), (743, 20452), (745, 20461), (751, 20488), (773, 20545), (776, 20557), (780, 20575), (784, 20584), (786, 20596), (797, 20632), (804, 20662), (807, 20671), (809, 20683), (823, 20743), (833, 20797), (849, 20857), (858, 20899), (896, 21034), (900, 21058), (908, 21112), (912, 21160), (922, 21202), (925, 21226), (926, 21229),

Gene: Willez_25 Start: 21788, Stop: 24184, Start Num: 148

Candidate Starts for Willez_25:

(Start: 148 @21788 has 132 MA's), (248, 21965), (259, 21986), (342, 22133), (382, 22274), (391, 22307), (404, 22340), (420, 22376), (479, 22469), (501, 22529), (508, 22547), (552, 22679), (566, 22724), (598, 22856), (610, 22901), (630, 22961), (672, 23075), (677, 23096), (688, 23135), (691, 23156), (695, 23171), (732, 23321), (734, 23327), (737, 23345), (752, 23399), (780, 23483), (807, 23576), (871, 23822), (912, 24038), (926, 24122), (933, 24155),

Gene: Winget_59 Start: 36356, Stop: 38866, Start Num: 114

Candidate Starts for Winget_59:

(Start: 114 @36356 has 34 MA's), (128, 36389), (163, 36458), (165, 36461), (179, 36485), (196, 36509), (209, 36533), (222, 36566), (310, 36773), (315, 36785), (316, 36788), (368, 36935), (373,

36965), (380, 36989), (392, 37019), (393, 37022), (404, 37049), (416, 37073), (431, 37103), (468, 37160), (481, 37184), (495, 37220), (498, 37232), (507, 37256), (508, 37259), (520, 37301), (554, 37397), (555, 37400), (627, 37655), (677, 37799), (691, 37859), (704, 37931), (705, 37934), (730, 38030), (780, 38204), (786, 38225), (812, 38318), (815, 38330), (833, 38420), (854, 38495), (879, 38540), (917, 38741), (924, 38795), (929, 38810),

Gene: Wogge42_57 Start: 35797, Stop: 38307, Start Num: 114

Candidate Starts for Wogge42_57:

(Start: 114 @35797 has 34 MA's), (128, 35830), (163, 35899), (165, 35902), (179, 35926), (196, 35950), (209, 35974), (222, 36007), (310, 36214), (315, 36226), (316, 36229), (368, 36376), (373, 36406), (380, 36430), (392, 36460), (393, 36463), (404, 36490), (416, 36514), (431, 36544), (468, 36601), (481, 36625), (495, 36661), (498, 36673), (507, 36697), (508, 36700), (520, 36742), (554, 36838), (555, 36841), (627, 37096), (677, 37240), (691, 37300), (704, 37372), (705, 37375), (730, 37471), (780, 37645), (786, 37666), (812, 37759), (815, 37771), (833, 37861), (854, 37936), (879, 37981), (917, 38182), (924, 38236), (929, 38251),

Gene: Wyatt2_20 Start: 18997, Stop: 21678, Start Num: 79

Candidate Starts for Wyatt2_20:

(Start: 79 @18997 has 19 MA's), (81, 19003), (164, 19180), (182, 19210), (215, 19273), (249, 19348), (273, 19402), (304, 19462), (306, 19468), (333, 19534), (354, 19597), (363, 19630), (365, 19633), (372, 19657), (380, 19687), (381, 19693), (395, 19741), (404, 19762), (412, 19777), (421, 19798), (437, 19837), (442, 19849), (450, 19867), (477, 19924), (488, 19942), (497, 19972), (506, 19996), (507, 19999), (525, 20044), (542, 20095), (549, 20113), (561, 20167), (579, 20239), (583, 20251), (586, 20260), (592, 20302), (599, 20332), (607, 20368), (611, 20386), (617, 20401), (618, 20407), (628, 20440), (670, 20569), (673, 20578), (691, 20659), (699, 20695), (701, 20701), (726, 20806), (729, 20815), (734, 20830), (737, 20848), (750, 20890), (782, 20986), (784, 20992), (797, 21046), (798, 21052), (801, 21064), (826, 21175), (830, 21205), (831, 21211), (853, 21307), (855, 21313), (860, 21337), (863, 21343), (864, 21349), (877, 21394), (878, 21403), (881, 21412), (893, 21451), (898, 21487), (900, 21496), (901, 21511), (913, 21607), (921, 21658), (922, 21664),

Gene: XFactor_18 Start: 17403, Stop: 19940, Start Num: 100

Candidate Starts for XFactor_18:

(96, 17391), (Start: 100 @17403 has 238 MA's), (113, 17424), (Start: 125 @17445 has 1 MA's), (142, 17484), (188, 17553), (194, 17562), (196, 17565), (204, 17583), (222, 17616), (233, 17631), (257, 17679), (307, 17790), (308, 17793), (325, 17823), (330, 17838), (357, 17916), (362, 17940), (380, 18006), (392, 18051), (404, 18081), (407, 18087), (416, 18105), (428, 18129), (432, 18138), (456, 18171), (461, 18177), (479, 18207), (495, 18246), (498, 18258), (501, 18267), (507, 18282), (508, 18285), (548, 18396), (549, 18399), (550, 18408), (551, 18414), (554, 18429), (555, 18432), (561, 18453), (573, 18483), (576, 18495), (585, 18528), (610, 18639), (611, 18642), (621, 18669), (623, 18675), (636, 18729), (637, 18732), (677, 18834), (681, 18846), (682, 18849), (697, 18915), (702, 18939), (705, 18960), (707, 18969), (724, 19029), (725, 19032), (734, 19068), (737, 19086), (743, 19098), (745, 19107), (751, 19134), (776, 19203), (780, 19221), (784, 19230), (786, 19242), (797, 19278), (804, 19308), (809, 19329), (816, 19353), (823, 19389), (833, 19443), (849, 19503), (858, 19545), (880, 19623), (896, 19680), (900, 19704), (908, 19758), (912, 19806), (922, 19848), (925, 19872), (926, 19875),

Gene: Xandras_28 Start: 22274, Stop: 24670, Start Num: 148

Candidate Starts for Xandras_28:

(Start: 148 @22274 has 132 MA's), (248, 22451), (259, 22472), (342, 22619), (391, 22793), (404, 22826), (420, 22862), (479, 22955), (501, 23015), (508, 23033), (552, 23165), (566, 23210), (598, 23342), (610, 23387), (630, 23447), (672, 23561), (677, 23582), (688, 23621), (691, 23642), (695, 23657), (732, 23807), (734, 23813), (737, 23831), (752, 23885), (780, 23969), (807, 24062), (871, 24308), (912, 24524), (926, 24608), (933, 24641),

Gene: Xavia_21 Start: 19042, Stop: 21888, Start Num: 51

Candidate Starts for Xavia_21:

(Start: 51 @19042 has 2 MA's), (91, 19195), (221, 19468), (226, 19480), (236, 19501), (247, 19525), (277, 19600), (300, 19672), (311, 19702), (326, 19738), (347, 19801), (352, 19816), (362, 19849), (392, 19924), (400, 19948), (403, 19954), (409, 19966), (430, 20008), (433, 20014), (464, 20101), (475, 20122), (488, 20146), (513, 20212), (518, 20233), (526, 20251), (539, 20284), (544, 20308), (546, 20311), (553, 20341), (556, 20362), (575, 20422), (583, 20458), (584, 20461), (586, 20467), (599, 20539), (607, 20575), (611, 20593), (612, 20596), (616, 20605), (620, 20620), (652, 20728), (673, 20791), (690, 20866), (699, 20908), (704, 20935), (722, 20998), (724, 21004), (726, 21019), (737, 21061), (749, 21100), (765, 21148), (776, 21175), (777, 21178), (784, 21205), (788, 21223), (796, 21253), (798, 21265), (801, 21277), (824, 21382), (827, 21400), (833, 21433), (853, 21520), (860, 21550), (863, 21556), (878, 21616), (881, 21625), (884, 21634), (892, 21661), (900, 21709), (901, 21724), (903, 21730), (908, 21766), (923, 21880),

Gene: YangYin_22 Start: 20852, Stop: 23308, Start Num: 97

Candidate Starts for YangYin_22:

(Start: 97 @20852 has 9 MA's), (166, 20996), (220, 21080), (237, 21110), (260, 21155), (341, 21314), (376, 21431), (483, 21653), (502, 21704), (545, 21821), (563, 21887), (587, 21971), (611, 22085), (636, 22175), (640, 22190), (642, 22196), (647, 22205), (664, 22244), (670, 22271), (674, 22283), (689, 22343), (691, 22358), (714, 22454), (719, 22466), (726, 22505), (768, 22640), (784, 22682), (792, 22709), (814, 22808), (843, 22946), (882, 23102), (909, 23246), (912, 23288),

Gene: YassJohnny_27 Start: 22799, Stop: 25195, Start Num: 148

Candidate Starts for YassJohnny_27:

(Start: 148 @22799 has 132 MA's), (248, 22976), (259, 22997), (342, 23144), (382, 23285), (391, 23318), (404, 23351), (420, 23387), (479, 23480), (501, 23540), (508, 23558), (552, 23690), (566, 23735), (598, 23867), (610, 23912), (672, 24086), (677, 24107), (688, 24146), (691, 24167), (695, 24182), (734, 24338), (737, 24356), (752, 24410), (780, 24494), (807, 24587), (871, 24833), (912, 25049), (926, 25133), (933, 25166),

Gene: Yelo_30 Start: 24620, Stop: 28120, Start Num: 2

Candidate Starts for Yelo_30:

(Start: 2 @24620 has 9 MA's), (4, 24632), (Start: 5 @24644 has 1 MA's), (8, 24827), (12, 24908), (18, 25007), (20, 25031), (21, 25049), (39, 25208), (41, 25241), (52, 25289), (63, 25328), (92, 25454), (Start: 97 @25463 has 9 MA's), (183, 25649), (278, 25850), (345, 26027), (373, 26126), (382, 26159), (396, 26204), (419, 26258), (425, 26267), (427, 26270), (467, 26336), (501, 26420), (506, 26435), (516, 26465), (551, 26570), (568, 26621), (580, 26666), (590, 26711), (600, 26756), (606, 26777), (610, 26795), (611, 26798), (613, 26804), (614, 26807), (663, 26945), (675, 26993), (676, 26999), (690, 27059), (695, 27080), (716, 27173), (729, 27233), (732, 27242), (734, 27248), (738, 27269), (789, 27434), (807, 27500), (809, 27512), (814, 27530), (816, 27536), (875, 27770), (882, 27809), (895, 27854), (899, 27884), (911, 27977), (918, 28004),

Gene: Yorick_18 Start: 17404, Stop: 19956, Start Num: 100

Candidate Starts for Yorick_18:

(Start: 100 @17404 has 238 MA's), (142, 17485), (188, 17554), (194, 17563), (196, 17566), (204, 17584), (233, 17632), (256, 17677), (307, 17791), (308, 17794), (314, 17806), (326, 17827), (329, 17836), (330, 17839), (346, 17887), (357, 17917), (373, 17983), (382, 18016), (392, 18052), (402, 18076), (431, 18136), (432, 18139), (442, 18157), (486, 18220), (488, 18223), (495, 18241), (501, 18262), (508, 18280), (517, 18307), (523, 18328), (538, 18361), (550, 18403), (551, 18409), (552, 18412), (555, 18427), (564, 18454), (566, 18457), (573, 18478), (576, 18490), (585, 18523), (606, 18616), (636, 18724), (643, 18748), (652, 18754), (663, 18772), (664, 18775), (669, 18799), (677, 18829), (685, 18853), (691, 18889), (692, 18895), (695, 18904), (701, 18931), (713, 18994), (719,

19018), (720, 19033), (732, 19075), (746, 19126), (777, 19222), (780, 19237), (784, 19246), (791, 19270), (807, 19333), (816, 19369), (892, 19675), (900, 19720), (912, 19822),

Gene: Yoshi_24 Start: 17092, Stop: 19641, Start Num: 80

Candidate Starts for Yoshi_24:

(77, 17083), (Start: 80 @17092 has 7 MA's), (Start: 100 @17152 has 238 MA's), (119, 17185), (122, 17188), (Start: 159 @17257 has 1 MA's), (177, 17287), (285, 17467), (290, 17482), (308, 17518), (309, 17524), (327, 17545), (335, 17569), (345, 17593), (389, 17740), (392, 17749), (404, 17773), (416, 17797), (428, 17821), (431, 17827), (442, 17848), (461, 17869), (479, 17899), (490, 17929), (498, 17950), (531, 18043), (538, 18058), (540, 18067), (548, 18088), (549, 18091), (573, 18175), (574, 18178), (576, 18187), (586, 18223), (592, 18262), (596, 18283), (598, 18286), (609, 18322), (614, 18343), (636, 18421), (637, 18424), (666, 18478), (681, 18538), (700, 18625), (702, 18631), (704, 18649), (705, 18652), (716, 18688), (729, 18742), (732, 18751), (750, 18829), (755, 18847), (769, 18883), (770, 18886), (776, 18904), (777, 18907), (780, 18922), (797, 18979), (799, 18991), (816, 19054), (823, 19087), (840, 19174), (852, 19222), (857, 19246), (865, 19273), (871, 19282), (879, 19321), (890, 19360), (896, 19384), (899, 19405), (912, 19501), (918, 19522), (929, 19585), (933, 19612), (936, 19621),

Gene: Youngblood_26 Start: 22452, Stop: 24848, Start Num: 148

Candidate Starts for Youngblood_26:

(Start: 148 @22452 has 132 MA's), (248, 22629), (259, 22650), (342, 22797), (382, 22938), (391, 22971), (404, 23004), (420, 23040), (479, 23133), (501, 23193), (508, 23211), (552, 23343), (566, 23388), (598, 23520), (610, 23565), (630, 23625), (672, 23739), (677, 23760), (688, 23799), (691, 23820), (695, 23835), (734, 23991), (737, 24009), (752, 24063), (780, 24147), (807, 24240), (871, 24486), (912, 24702), (926, 24786), (933, 24819),

Gene: YoureAdopted_26 Start: 20848, Stop: 23280, Start Num: 151

Candidate Starts for YoureAdopted_26:

(Start: 151 @20848 has 97 MA's), (214, 20947), (339, 21208), (346, 21229), (416, 21436), (431, 21469), (439, 21499), (473, 21571), (482, 21595), (498, 21640), (548, 21793), (556, 21838), (561, 21850), (565, 21859), (577, 21910), (619, 22090), (624, 22105), (641, 22174), (646, 22186), (682, 22291), (691, 22330), (692, 22336), (695, 22345), (715, 22426), (726, 22474), (746, 22549), (755, 22585), (783, 22657), (785, 22666), (792, 22687), (813, 22780), (833, 22876), (872, 23023), (882, 23065), (894, 23104), (904, 23179),

Gene: YoyoKar_56 Start: 35640, Stop: 38150, Start Num: 114

Candidate Starts for YoyoKar_56:

(Start: 114 @35640 has 34 MA's), (128, 35673), (163, 35742), (165, 35745), (179, 35769), (196, 35793), (209, 35817), (222, 35850), (310, 36057), (315, 36069), (316, 36072), (368, 36219), (373, 36249), (380, 36273), (392, 36303), (393, 36306), (404, 36333), (416, 36357), (431, 36387), (468, 36444), (481, 36468), (495, 36504), (498, 36516), (507, 36540), (508, 36543), (520, 36585), (554, 36681), (555, 36684), (627, 36939), (677, 37083), (691, 37143), (704, 37215), (705, 37218), (730, 37314), (780, 37488), (786, 37509), (812, 37602), (815, 37614), (833, 37704), (854, 37779), (879, 37824), (917, 38025), (924, 38079), (929, 38094),

Gene: YungJamal_63 Start: 37548, Stop: 40058, Start Num: 114

Candidate Starts for YungJamal_63:

(Start: 114 @37548 has 34 MA's), (128, 37581), (163, 37650), (165, 37653), (179, 37677), (196, 37701), (209, 37725), (222, 37758), (310, 37965), (315, 37977), (316, 37980), (368, 38127), (373, 38157), (380, 38181), (392, 38211), (393, 38214), (404, 38241), (416, 38265), (431, 38295), (468, 38352), (495, 38412), (498, 38424), (507, 38448), (508, 38451), (520, 38493), (554, 38589), (555, 38592), (627, 38847), (677, 38991), (691, 39051), (704, 39123), (705, 39126), (730, 39222), (780, 39396), (786, 39417), (812, 39510), (815, 39522), (833, 39612), (854, 39687), (879, 39732), (917,

39933), (924, 39987), (929, 40002),

Gene: Yunkel11_27 Start: 20098, Stop: 22530, Start Num: 151

Candidate Starts for Yunkel11_27:

(Start: 151 @20098 has 97 MA's), (171, 20146), (174, 20149), (182, 20158), (339, 20458), (346, 20479), (431, 20719), (473, 20821), (482, 20845), (483, 20851), (498, 20890), (548, 21043), (561, 21100), (565, 21109), (577, 21160), (621, 21346), (624, 21355), (625, 21361), (636, 21406), (641, 21424), (670, 21499), (682, 21541), (691, 21580), (692, 21586), (695, 21595), (700, 21616), (709, 21664), (724, 21709), (726, 21724), (745, 21793), (755, 21835), (785, 21916), (808, 22009), (813, 22030), (833, 22126), (894, 22354), (901, 22408), (904, 22429), (912, 22501), (916, 22519),

Gene: Zabiza_27 Start: 20879, Stop: 23311, Start Num: 151

Candidate Starts for Zabiza_27:

(Start: 151 @20879 has 97 MA's), (214, 20978), (339, 21239), (346, 21260), (416, 21467), (431, 21500), (439, 21530), (473, 21602), (482, 21626), (498, 21671), (548, 21824), (556, 21869), (561, 21881), (565, 21890), (577, 21941), (619, 22121), (624, 22136), (641, 22205), (646, 22217), (682, 22322), (691, 22361), (692, 22367), (695, 22376), (715, 22457), (726, 22505), (746, 22580), (755, 22616), (785, 22697), (792, 22718), (813, 22811), (833, 22907), (872, 23054), (882, 23096), (894, 23135), (904, 23210),

Gene: Zakhe101_58 Start: 36194, Stop: 38704, Start Num: 114

Candidate Starts for Zakhe101_58:

(Start: 114 @36194 has 34 MA's), (128, 36227), (163, 36296), (165, 36299), (179, 36323), (196, 36347), (209, 36371), (222, 36404), (310, 36611), (315, 36623), (316, 36626), (368, 36773), (373, 36803), (380, 36827), (392, 36857), (393, 36860), (404, 36887), (416, 36911), (431, 36941), (468, 36998), (495, 37058), (498, 37070), (507, 37094), (508, 37097), (520, 37139), (554, 37235), (555, 37238), (627, 37493), (677, 37637), (691, 37697), (704, 37769), (705, 37772), (730, 37868), (780, 38042), (786, 38063), (812, 38156), (815, 38168), (833, 38258), (854, 38333), (879, 38378), (917, 38579), (924, 38633), (929, 38648),

Gene: Zapner_25 Start: 17617, Stop: 20169, Start Num: 80

Candidate Starts for Zapner_25:

(77, 17608), (Start: 80 @17617 has 7 MA's), (Start: 100 @17677 has 238 MA's), (122, 17713), (177, 17812), (257, 17953), (285, 17992), (290, 18007), (308, 18043), (309, 18049), (311, 18052), (327, 18070), (335, 18094), (345, 18118), (346, 18121), (389, 18265), (392, 18274), (404, 18298), (416, 18322), (428, 18346), (431, 18352), (442, 18373), (449, 18376), (461, 18394), (479, 18427), (490, 18457), (498, 18478), (531, 18571), (538, 18586), (540, 18595), (548, 18616), (549, 18619), (556, 18661), (573, 18703), (574, 18706), (576, 18715), (583, 18742), (586, 18751), (592, 18790), (596, 18811), (598, 18814), (609, 18850), (614, 18871), (636, 18949), (637, 18952), (666, 19006), (681, 19066), (700, 19153), (702, 19159), (705, 19180), (716, 19216), (729, 19270), (732, 19279), (750, 19357), (755, 19375), (769, 19411), (770, 19414), (776, 19432), (780, 19450), (797, 19507), (799, 19519), (816, 19582), (823, 19615), (840, 19702), (852, 19750), (857, 19774), (871, 19810), (879, 19849), (890, 19888), (896, 19912), (899, 19933), (912, 20029), (918, 20050), (927, 20110), (929, 20113), (933, 20140),

Gene: Zaria_20 Start: 19011, Stop: 21692, Start Num: 79

Candidate Starts for Zaria_20:

(Start: 79 @19011 has 19 MA's), (81, 19017), (164, 19194), (182, 19224), (215, 19287), (249, 19362), (273, 19416), (304, 19476), (306, 19482), (333, 19548), (354, 19611), (363, 19644), (365, 19647), (372, 19671), (378, 19695), (380, 19701), (381, 19707), (395, 19755), (404, 19776), (412, 19791), (421, 19812), (437, 19851), (442, 19863), (450, 19881), (488, 19956), (497, 19986), (506, 20010), (507, 20013), (525, 20058), (542, 20109), (549, 20127), (561, 20181), (579, 20253), (583, 20265), (586, 20274), (592, 20316), (599, 20346), (607, 20382), (611, 20400), (617, 20415), (618, 20421),

(628, 20454), (670, 20583), (673, 20592), (691, 20673), (699, 20709), (701, 20715), (726, 20820), (729, 20829), (734, 20844), (737, 20862), (750, 20904), (782, 21000), (784, 21006), (797, 21060), (798, 21066), (801, 21078), (826, 21189), (830, 21219), (831, 21225), (853, 21321), (855, 21327), (860, 21351), (863, 21357), (864, 21363), (877, 21408), (878, 21417), (881, 21426), (893, 21465), (898, 21501), (900, 21510), (901, 21525), (913, 21621), (921, 21672), (922, 21678),

Gene: Zavala_27 Start: 20854, Stop: 23286, Start Num: 151

Candidate Starts for Zavala_27:

(Start: 151 @20854 has 97 MA's), (214, 20953), (339, 21214), (346, 21235), (416, 21442), (431, 21475), (439, 21505), (473, 21577), (482, 21601), (498, 21646), (548, 21799), (556, 21844), (561, 21856), (565, 21865), (577, 21916), (619, 22096), (624, 22111), (641, 22180), (646, 22192), (670, 22255), (682, 22297), (691, 22336), (692, 22342), (695, 22351), (700, 22372), (715, 22432), (745, 22549), (755, 22591), (783, 22663), (785, 22672), (792, 22693), (808, 22765), (813, 22786), (833, 22882), (848, 22945), (894, 23110), (912, 23257),

Gene: Zebo_58 Start: 36099, Stop: 38609, Start Num: 114

Candidate Starts for Zebo_58:

(Start: 114 @36099 has 34 MA's), (128, 36132), (163, 36201), (165, 36204), (179, 36228), (196, 36252), (209, 36276), (222, 36309), (310, 36516), (315, 36528), (316, 36531), (368, 36678), (373, 36708), (380, 36732), (392, 36762), (393, 36765), (404, 36792), (416, 36816), (431, 36846), (468, 36903), (481, 36927), (495, 36963), (498, 36975), (507, 36999), (508, 37002), (520, 37044), (554, 37140), (555, 37143), (627, 37398), (677, 37542), (691, 37602), (704, 37674), (705, 37677), (730, 37773), (780, 37947), (786, 37968), (812, 38061), (815, 38073), (833, 38163), (854, 38238), (879, 38283), (917, 38484), (924, 38538), (929, 38553),

Gene: Zenon_31 Start: 24639, Stop: 28139, Start Num: 2

Candidate Starts for Zenon_31:

(Start: 2 @24639 has 9 MA's), (4, 24651), (Start: 5 @24663 has 1 MA's), (8, 24846), (12, 24927), (18, 25026), (20, 25050), (21, 25068), (39, 25227), (41, 25260), (52, 25308), (63, 25347), (92, 25473), (Start: 97 @25482 has 9 MA's), (183, 25668), (278, 25869), (345, 26046), (373, 26145), (382, 26178), (396, 26223), (401, 26235), (419, 26277), (427, 26289), (467, 26355), (501, 26439), (506, 26454), (516, 26484), (551, 26589), (568, 26640), (580, 26685), (590, 26730), (600, 26775), (606, 26796), (610, 26814), (611, 26817), (613, 26823), (614, 26826), (663, 26964), (675, 27012), (676, 27018), (690, 27078), (695, 27099), (716, 27192), (729, 27252), (732, 27261), (734, 27267), (738, 27288), (789, 27453), (807, 27519), (809, 27531), (814, 27549), (816, 27555), (875, 27789), (882, 27828), (895, 27873), (899, 27903), (911, 27996), (918, 28023),

Gene: Zerg_18 Start: 17367, Stop: 19904, Start Num: 100

Candidate Starts for Zerg_18:

(Start: 100 @17367 has 238 MA's), (Start: 151 @17457 has 97 MA's), (188, 17517), (194, 17526), (196, 17529), (204, 17547), (233, 17595), (303, 17748), (308, 17757), (330, 17802), (361, 17901), (362, 17904), (380, 17970), (404, 18045), (407, 18051), (416, 18069), (428, 18093), (431, 18099), (432, 18102), (456, 18135), (461, 18141), (479, 18171), (488, 18192), (498, 18222), (501, 18231), (507, 18246), (508, 18249), (548, 18360), (549, 18363), (550, 18372), (551, 18378), (554, 18393), (555, 18396), (561, 18417), (573, 18447), (576, 18459), (585, 18492), (610, 18603), (611, 18606), (621, 18633), (623, 18639), (636, 18693), (637, 18696), (674, 18783), (677, 18798), (681, 18810), (682, 18813), (697, 18879), (702, 18903), (705, 18924), (707, 18933), (724, 18993), (725, 18996), (734, 19032), (737, 19050), (743, 19062), (745, 19071), (751, 19098), (773, 19155), (776, 19167), (780, 19185), (784, 19194), (786, 19206), (797, 19242), (804, 19272), (807, 19281), (809, 19293), (823, 19353), (833, 19407), (849, 19467), (858, 19509), (896, 19644), (900, 19668), (908, 19722), (912, 19770), (922, 19812), (925, 19836), (926, 19839),

Gene: Zizzle_18 Start: 17375, Stop: 19900, Start Num: 100

Candidate Starts for Zizzle_18:

(Start: 100 @17375 has 238 MA's), (142, 17456), (188, 17525), (194, 17534), (196, 17537), (204, 17555), (233, 17603), (256, 17648), (307, 17762), (308, 17765), (326, 17798), (330, 17810), (357, 17888), (373, 17954), (382, 17987), (399, 18041), (404, 18053), (431, 18107), (432, 18110), (436, 18119), (462, 18152), (486, 18191), (488, 18194), (493, 18209), (495, 18212), (504, 18239), (506, 18245), (507, 18248), (508, 18251), (517, 18278), (522, 18296), (523, 18299), (550, 18374), (554, 18395), (555, 18398), (564, 18425), (573, 18449), (585, 18494), (586, 18497), (594, 18548), (611, 18611), (614, 18620), (622, 18644), (664, 18749), (665, 18752), (677, 18803), (679, 18809), (681, 18815), (682, 18818), (691, 18863), (695, 18878), (701, 18905), (705, 18929), (719, 18980), (724, 18998), (725, 19001), (726, 19013), (743, 19067), (780, 19190), (798, 19253), (814, 19316), (828, 19391), (885, 19592), (921, 19802), (928, 19841), (929, 19844),

Gene: xkcd_27 Start: 22453, Stop: 24849, Start Num: 148

Candidate Starts for xkcd_27:

(Start: 148 @22453 has 132 MA's), (248, 22630), (259, 22651), (342, 22798), (382, 22939), (391, 22972), (404, 23005), (420, 23041), (479, 23134), (501, 23194), (508, 23212), (552, 23344), (566, 23389), (598, 23521), (610, 23566), (672, 23740), (677, 23761), (688, 23800), (691, 23821), (695, 23836), (734, 23992), (737, 24010), (752, 24064), (780, 24148), (807, 24241), (871, 24487), (912, 24703), (926, 24787), (933, 24820),