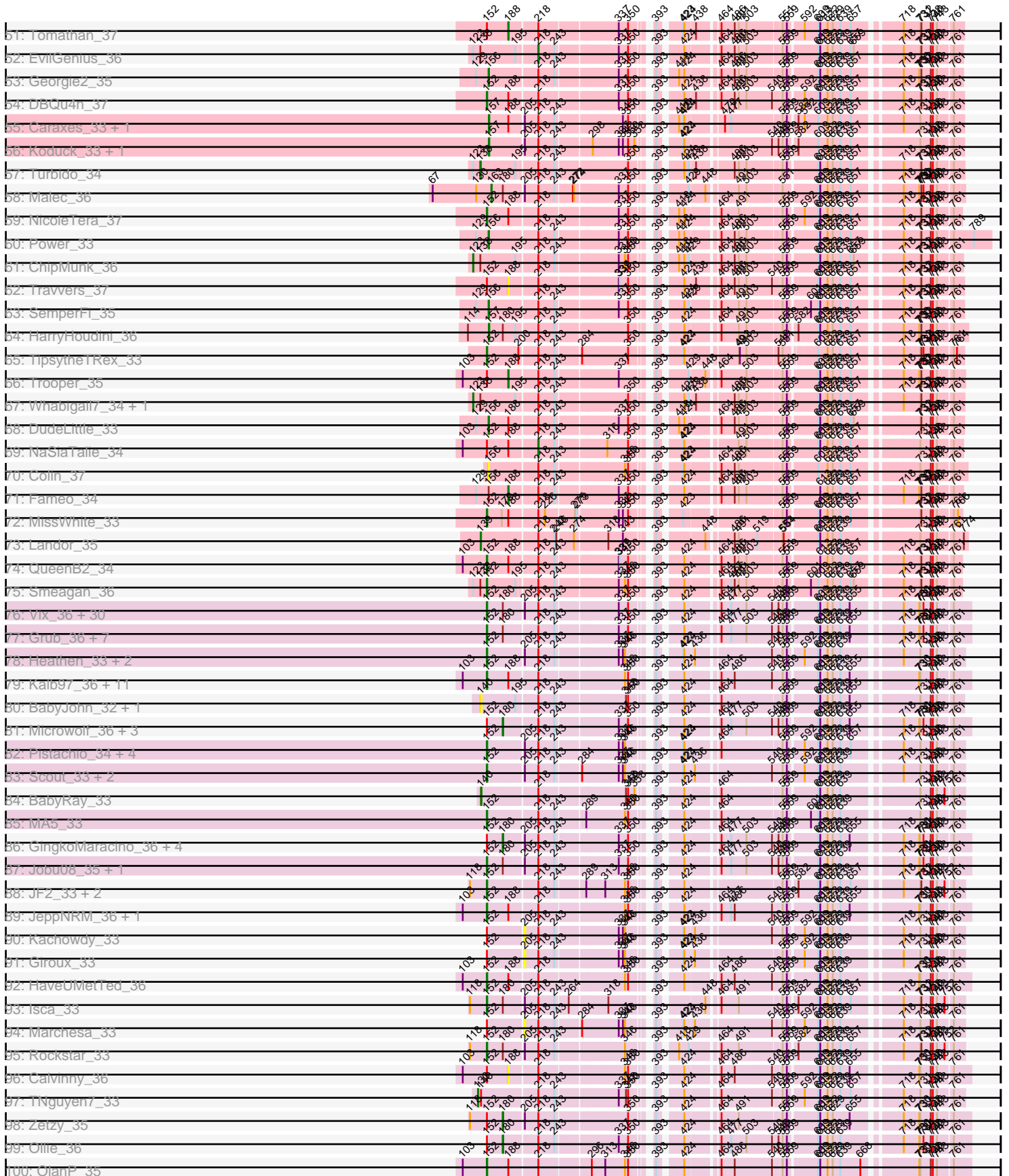


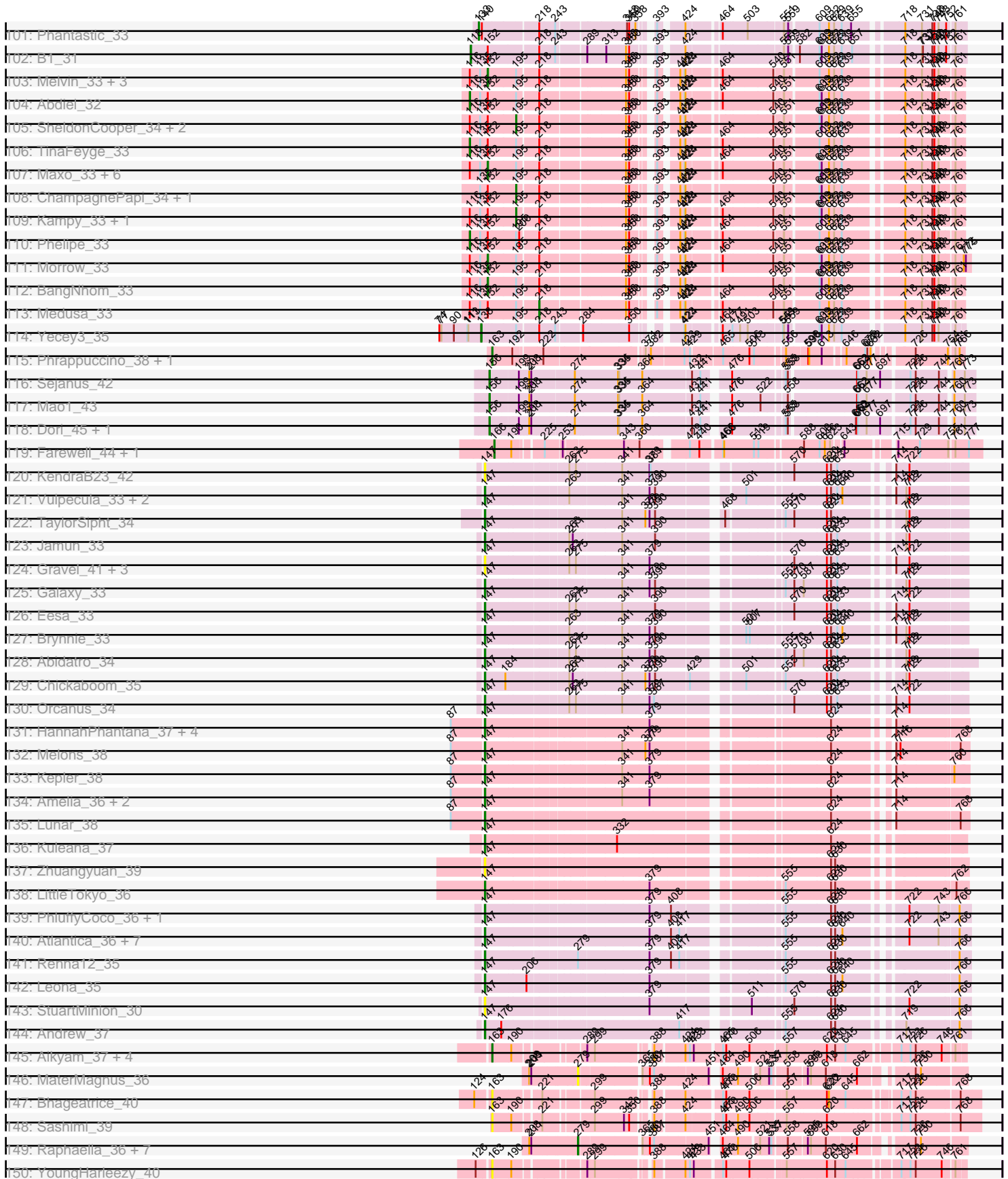
Pham 202531

1: Pharaoh_32	113	136	195	218	243	350	393	429	454	489	510	550	580	600	650	718	734	761
2: Zimmer_35	123	152	200	216	243	350	393	429	461	490	530	550	580	600	650	718	734	761
3: Kimona_30	123	152	188	216	243	350	393	429	461	490	530	550	580	600	650	718	734	761
4: Baehexic_34 + 4	123	152	200	216	243	350	393	429	461	490	530	550	580	600	650	718	734	761
5: SwiftSquare_35	123	152	188	216	243	350	393	429	461	490	530	550	580	600	650	718	734	761
6: Pn8s_35	123	152	188	216	243	350	393	429	461	490	530	550	580	600	650	718	734	761
7: XianYue_35	101	124	188	216	243	316	344	393	429	461	490	530	550	580	600	718	734	761
8: Sknol_35 + 1	123	152	188	216	243	316	344	393	429	461	490	518	550	580	600	718	734	761
9: Bactobuster_35	123	152	188	216	243	350	393	429	461	490	530	550	580	600	650	718	734	761
10: Leviathan_35	123	152	200	216	243	281	350	393	429	461	490	530	550	580	600	718	734	761
11: MajorMajor_34 + 2	144	188	216	243	274	350	393	429	461	490	530	550	580	600	650	718	734	761
12: Pukovnik_35	123	152	188	216	243	350	393	429	461	490	530	550	580	600	650	718	734	761
13: KingCyrus_36	123	152	188	216	243	350	393	429	461	490	530	550	580	600	650	718	734	761
14: QueenBeesly_34 + 1	123	152	188	216	243	274	350	393	429	461	490	530	550	580	600	718	734	761
15: Jaan_37	110	152	188	216	243	350	393	429	461	490	530	550	580	600	650	718	734	761
16: C3_31	123	152	188	216	243	350	393	429	461	490	530	550	580	600	650	718	734	761
17: Kaipine_35	101	124	188	216	243	316	350	393	429	461	490	530	550	580	600	718	734	761
18: MiculOcigas_34	123	152	200	216	243	281	350	393	429	461	490	530	550	580	600	718	734	761
19: Serenity_34	101	124	188	216	243	316	350	393	429	461	490	530	550	580	600	718	734	761
20: Buggy_36	101	124	188	216	243	350	393	429	461	490	530	550	580	600	650	718	734	761
21: TarsusIV_33	101	124	188	216	243	350	393	429	461	490	530	550	580	600	650	718	734	761
22: Leogania_35	110	124	188	216	243	350	393	429	461	490	530	550	580	600	650	718	734	761
23: AN9_36 + 4	106	124	188	216	243	274	350	393	429	461	490	530	550	580	600	718	734	761
24: Journey13_31	97	124	188	216	243	274	350	393	429	461	490	530	550	580	600	718	734	761
25: Trxie_35	101	124	188	216	243	316	350	393	429	461	490	530	550	580	600	718	734	761
26: SnapTap_34 + 2	123	152	188	216	243	350	393	429	461	490	530	550	580	600	650	718	734	761
27: Agape74_35 + 1	123	152	188	216	243	316	350	393	429	461	490	530	550	580	600	718	734	761
28: Hellatump_35	123	152	188	216	243	350	393	429	461	490	530	550	580	600	650	718	734	761
29: Bianca1192_35	123	152	188	216	243	350	393	429	461	490	530	550	580	600	650	718	734	761
30: Pomar16_37	101	124	188	216	243	350	393	429	461	490	530	550	580	600	650	718	734	761
31: Dupio_37	101	124	188	216	243	281	316	350	393	429	461	490	530	550	600	718	734	761
32: Drake55_36	123	152	200	216	243	350	393	429	461	490	530	550	580	600	650	718	734	761
33: Odin_33	123	152	188	216	243	350	393	429	461	490	530	550	580	600	650	718	734	761
34: Naji_37 + 2	123	152	188	216	243	350	393	429	461	490	530	550	580	600	650	718	734	761
35: Acolyte_34	123	152	200	216	243	281	350	393	429	461	490	530	550	580	600	718	734	761
36: Jsquared_34	123	152	216	243	350	393	429	461	490	530	550	580	600	650	718	734	761	
37: Iwokeupikedis_34	123	152	188	216	243	350	393	429	461	490	530	550	580	600	650	718	734	761
38: Larenn_35	101	124	188	216	243	350	393	429	461	490	530	550	580	600	650	718	734	761
39: Daimatian_35 + 2	123	152	188	216	243	350	393	429	461	490	530	550	580	600	650	718	734	761
40: JoshKayV_35	123	152	188	216	243	350	393	429	461	490	530	550	580	600	650	718	734	761
41: Adzzy_35	123	152	188	216	243	350	393	429	461	490	530	550	580	600	650	718	734	761
42: IronMan_36	123	152	188	216	243	350	393	429	461	490	530	550	580	600	650	718	734	761
43: Phaded_37	101	124	188	216	243	316	344	393	429	461	490	530	550	580	600	718	734	761
44: GaugeLDP_35	123	152	188	216	243	350	393	429	461	490	530	550	580	600	650	718	734	761
45: NothingSpecial_35	123	152	188	216	243	350	393	429	461	490	530	550	580	600	650	718	734	761
46: Kerberos_37 + 1	123	152	188	216	243	350	393	429	461	490	530	550	580	600	650	718	734	761
47: WeiHuaDA_38	123	152	200	216	243	281	350	393	429	461	490	530	550	580	600	718	734	761
48: Cher12_36	123	152	188	216	243	274	350	393	429	461	490	530	550	580	600	718	734	761
49: Piro94_34	123	152	188	216	243	350	393	429	461	490	530	550	580	600	650	718	734	761
50: Dignity_35 + 1	123	152	188	216	243	350	393	429	461	490	530	550	580	600	650	718	734	761

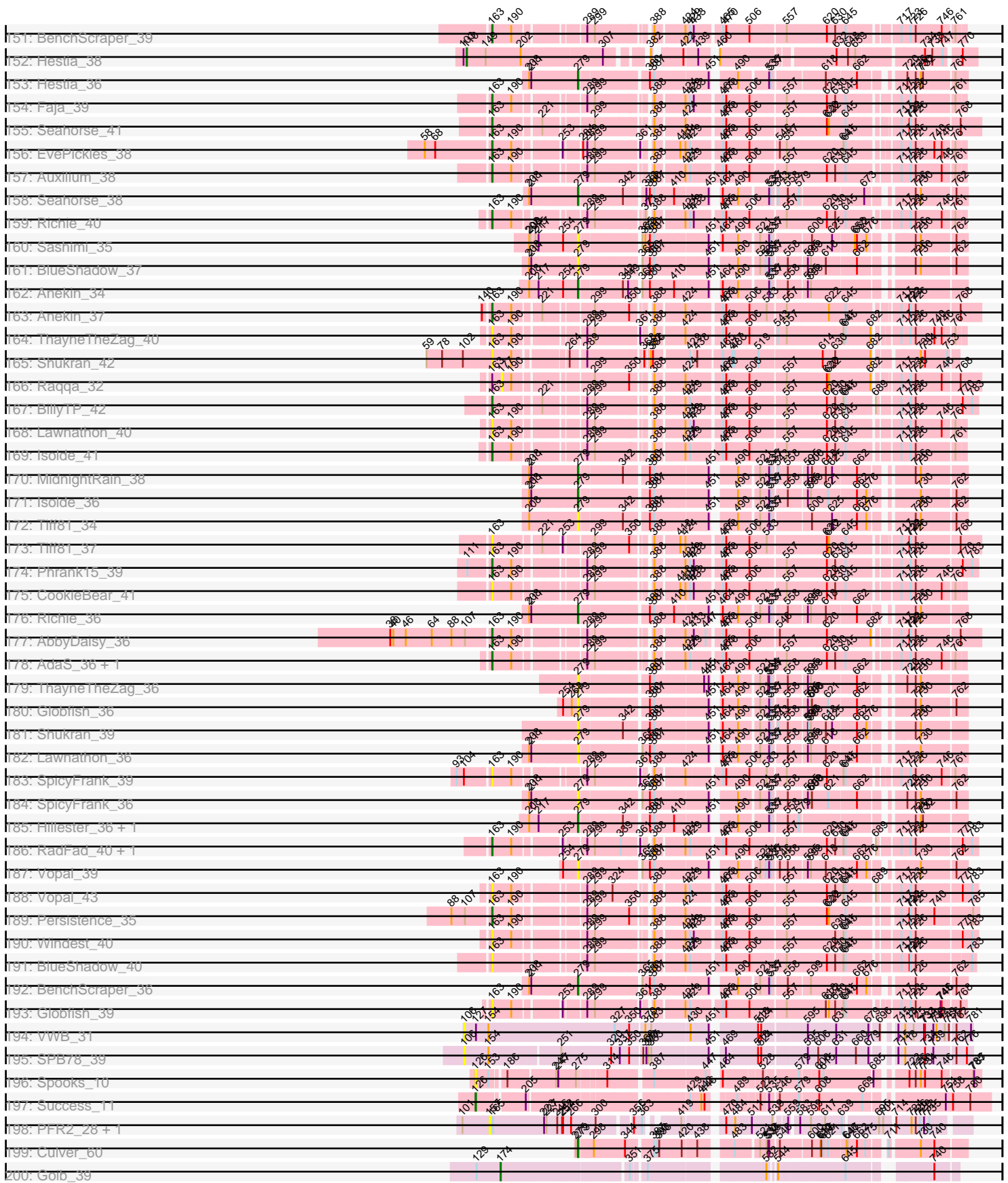
Pham 202531



Pham 202531



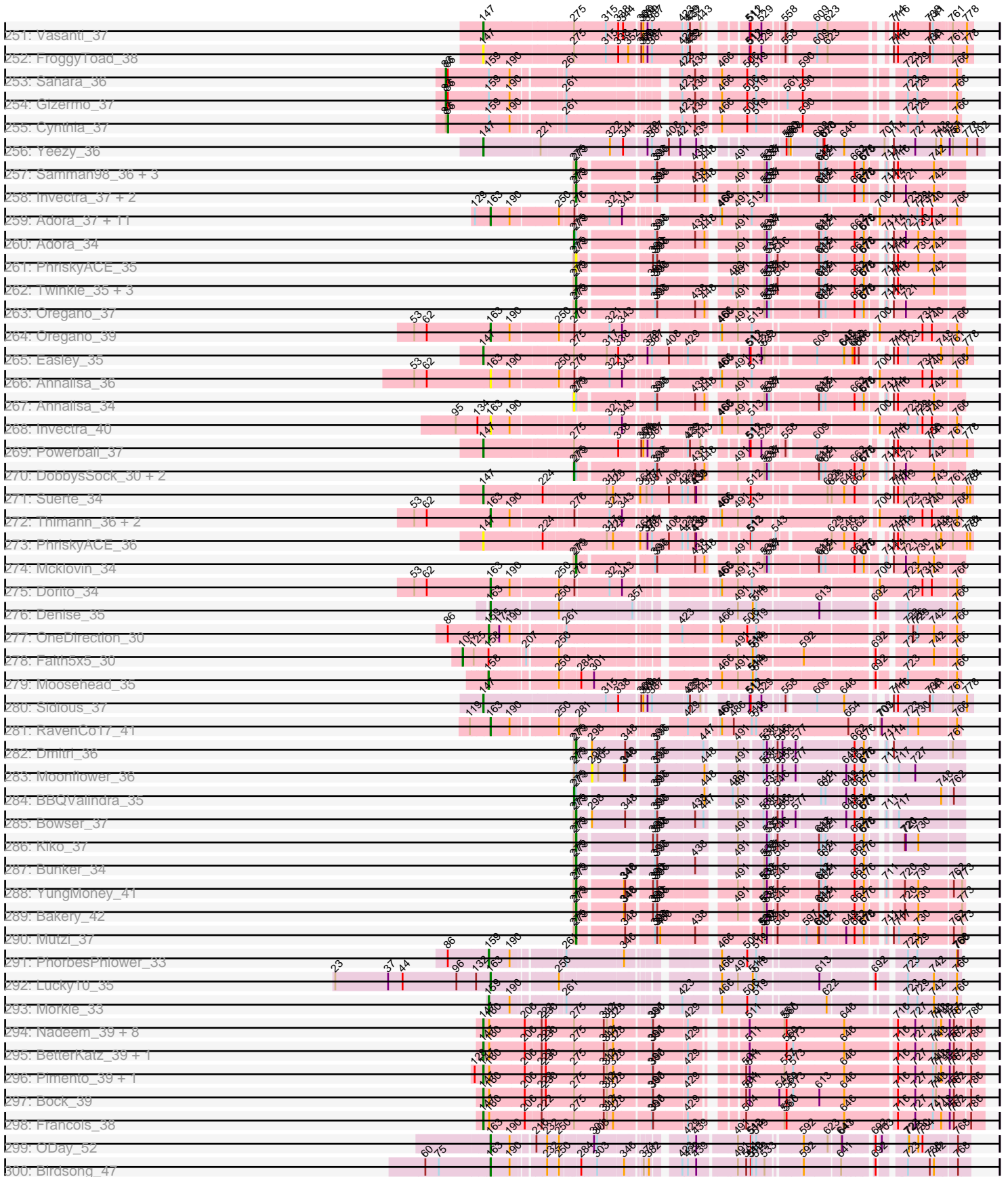
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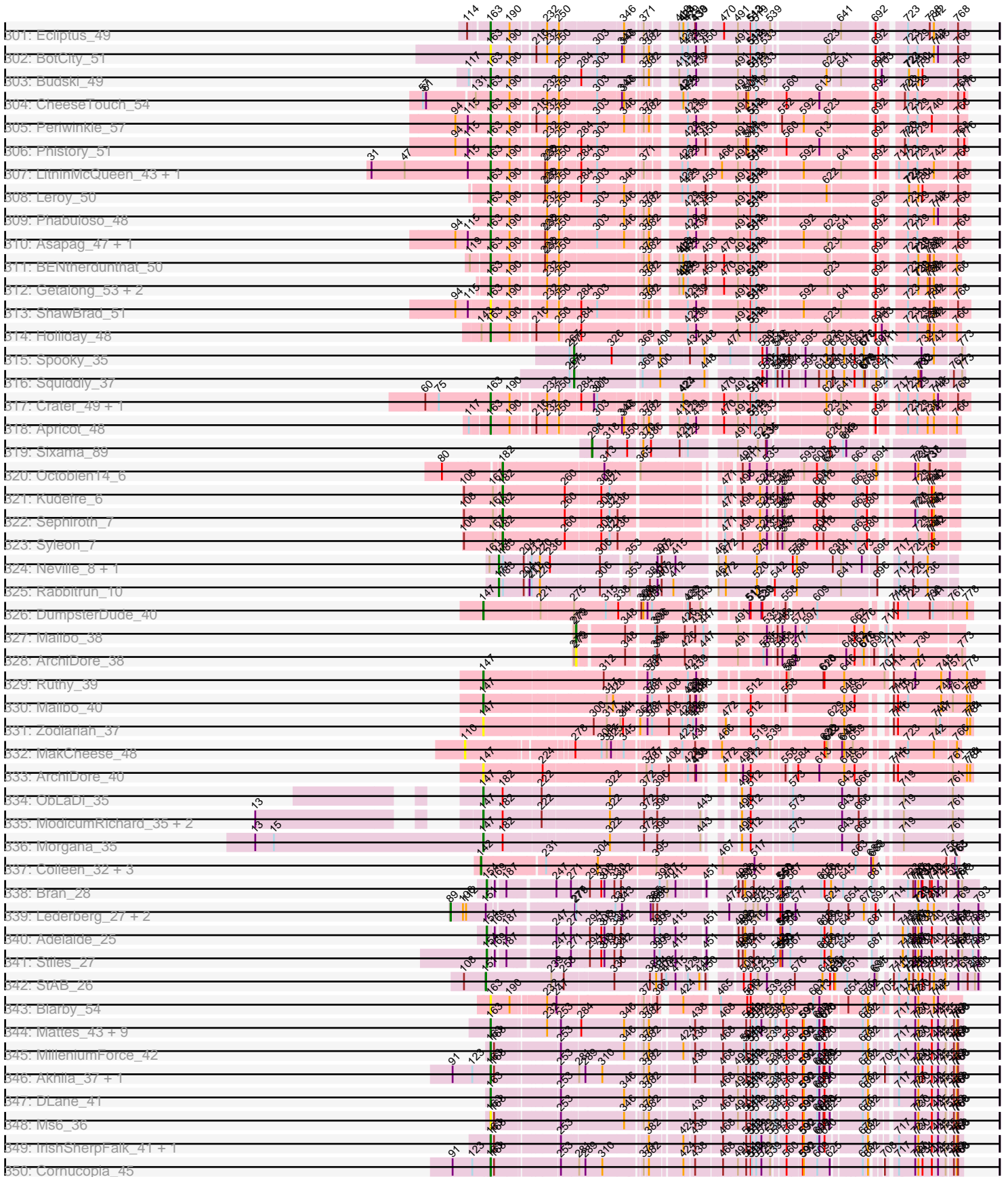
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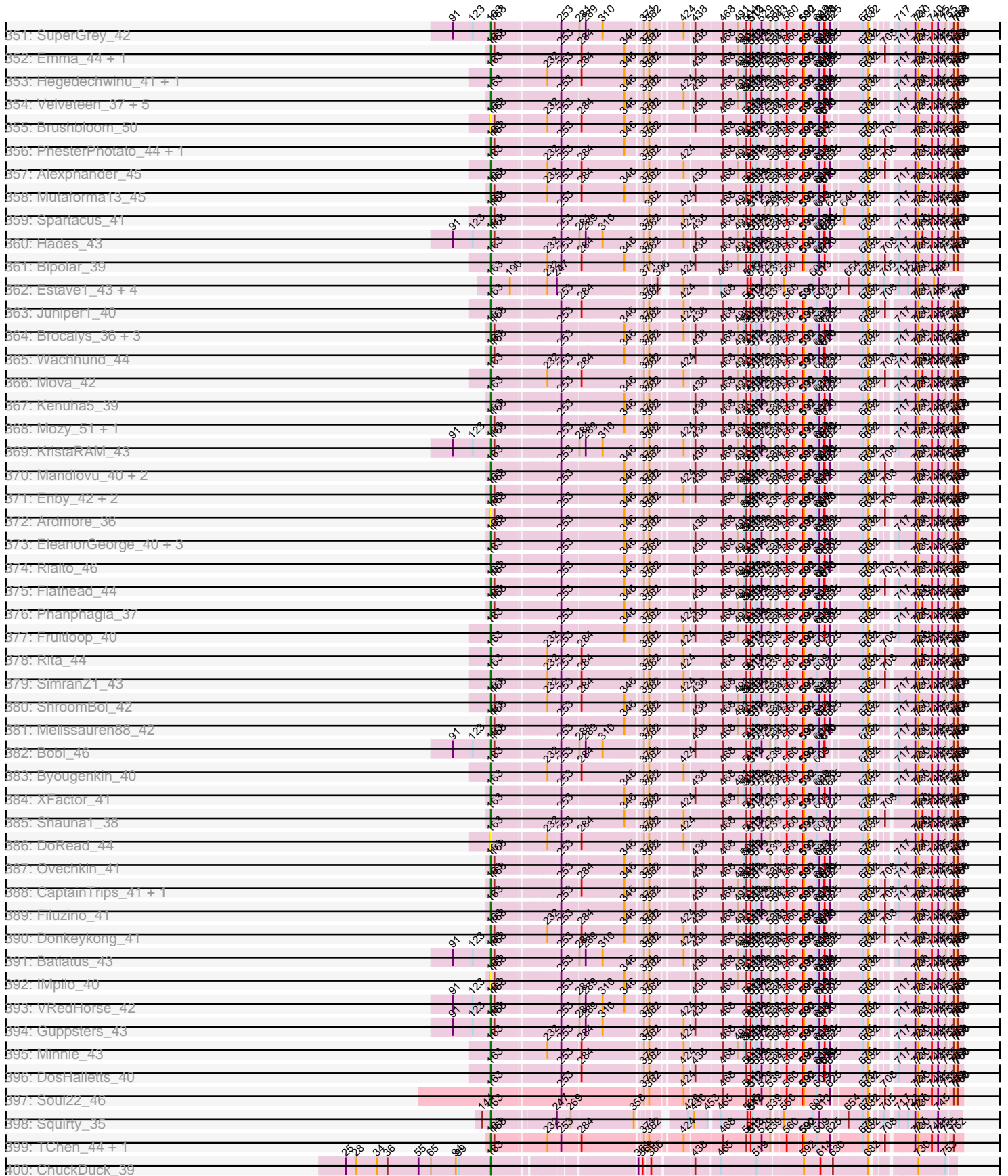
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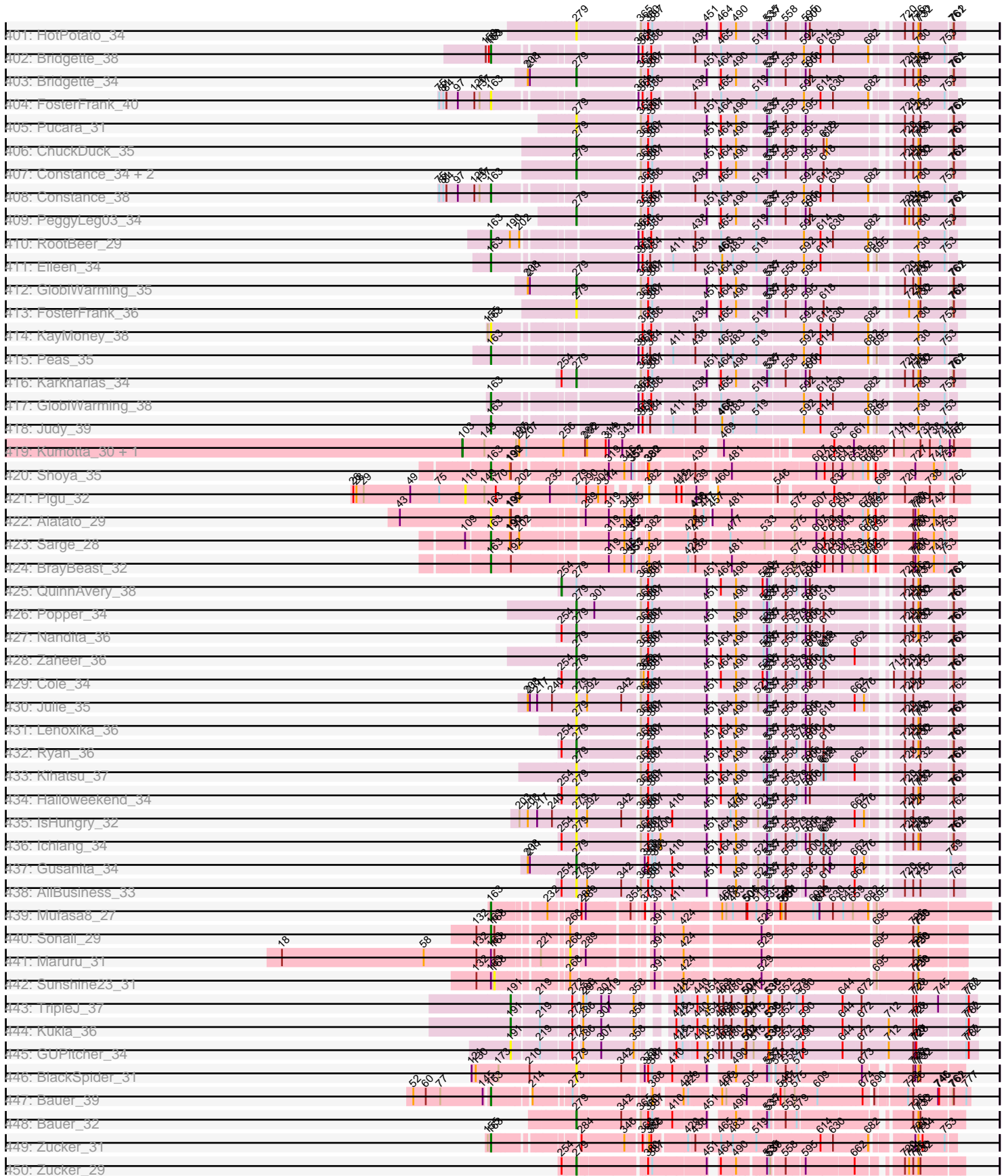
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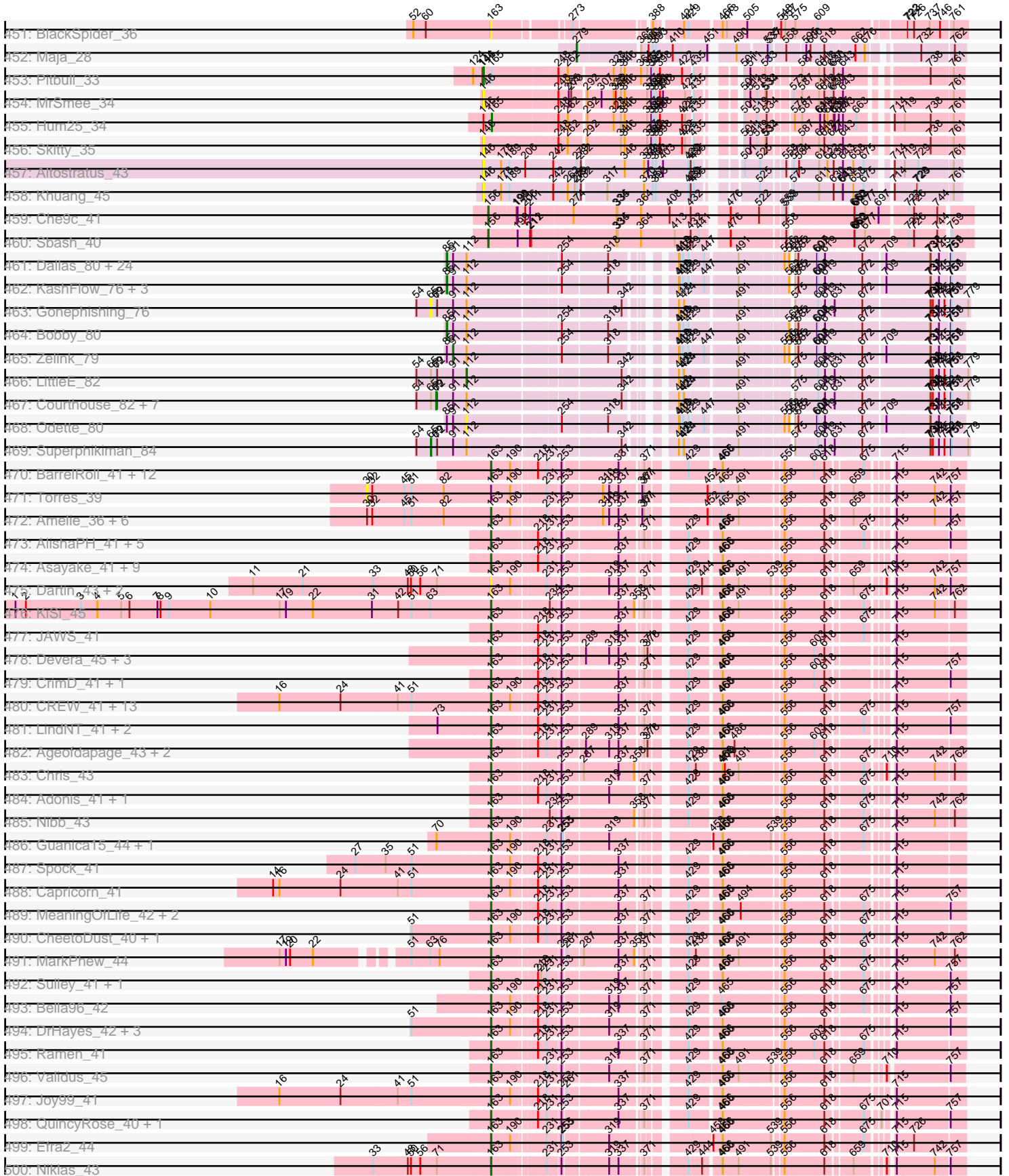
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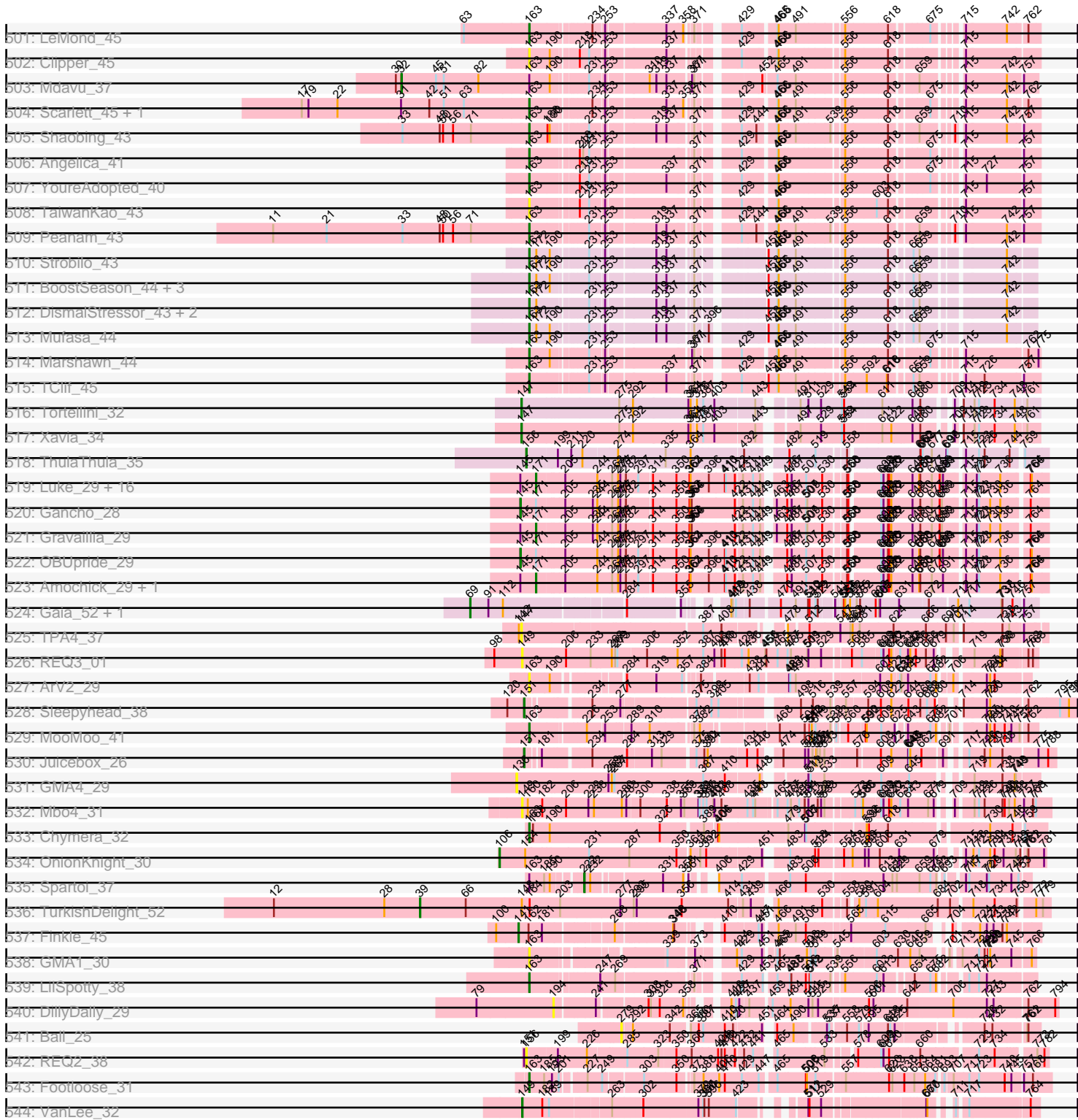
Pham 202531



Pham 202531



Pham 202531



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 202531 Report

This analysis was run 01/18/25 on database version 583.

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

Pham number 202531 has 939 members, 141 are drafts.

Phages represented in each track:

- Track 1 : Pharaoh_32
- Track 2 : Zimmer_35
- Track 3 : Kimona_30
- Track 4 : Baehexic_34, WideWale_35, Centaur_35, Updawg_35, Equemioh13_35
- Track 5 : SwirlSquare_35
- Track 6 : Ph8s_35
- Track 7 : XianYue_35
- Track 8 : Sknot_35, Flare16_34
- Track 9 : Bactobuster_35
- Track 10 : Leviathan_35
- Track 11 : MajorMajor_34, Bradman_34, Quokka_33
- Track 12 : Pukovnik_35
- Track 13 : KingCyrus_36
- Track 14 : QueenBeesly_34, FiringLine_34
- Track 15 : Jaan_37
- Track 16 : C3_31
- Track 17 : Kalpine_35
- Track 18 : MiculUcigas_34
- Track 19 : Serenity_34
- Track 20 : Bugsy_36
- Track 21 : TarsusIV_33
- Track 22 : Leogania_35
- Track 23 : AN9_36, VC3_36, ANI8_36, AN3_33, VA6_33
- Track 24 : Journey13_31
- Track 25 : Trixie_35
- Track 26 : SnapTap_34, SweetiePie_34, Crucio_34
- Track 27 : Agape74_35, AbbyPaige_35
- Track 28 : Heffalump_35
- Track 29 : BiancaTri92_35
- Track 30 : Pomar16_37
- Track 31 : Duplo_37
- Track 32 : Drake55_36
- Track 33 : Odin_33

- Track 34 : Naji_37, D29_33, D32_37
- Track 35 : Acolyte_34
- Track 36 : Jsquared_34
- Track 37 : Iwokeuplikedis_34
- Track 38 : Larenn_35
- Track 39 : Dalmatian_35, Anselm_35, Retro23_35
- Track 40 : JoshKayV_35
- Track 41 : Adzzy_35
- Track 42 : IronMan_36
- Track 43 : Phaded_37
- Track 44 : GaugeLDP_35
- Track 45 : NothingSpecial_35
- Track 46 : Kerberos_37, StarStuff_37
- Track 47 : WeiHuaDA_38
- Track 48 : Che12_36
- Track 49 : Piro94_34
- Track 50 : Dignity_35, Jerm_35
- Track 51 : Tomathan_37
- Track 52 : EvilGenius_36
- Track 53 : Georgie2_35
- Track 54 : DBQu4n_37
- Track 55 : Caraxes_33, Superchunk_33
- Track 56 : Koduck_33, L5_33
- Track 57 : Turbido_34
- Track 58 : Malec_36
- Track 59 : NicoleTera_37
- Track 60 : Power_33
- Track 61 : ChipMunk_36
- Track 62 : Travvers_37
- Track 63 : SemperFi_35
- Track 64 : HarryHoudini_36
- Track 65 : TipsytheTRex_33
- Track 66 : Trooper_35
- Track 67 : Whabigail7_34, LilTurb_34
- Track 68 : DudeLittle_33
- Track 69 : NaSiaTalie_34
- Track 70 : Colin_37
- Track 71 : Fameo_34
- Track 72 : MissWhite_33
- Track 73 : Landor_35
- Track 74 : QueenB2_34
- Track 75 : Smeagan_36
- Track 76 : Vix_36, Dieselweasel_36, MuchMore_38, Colbster_36, Grum1_36, JHC117_36, Grif_36, Penny1_36, EpicPhail_36, LBerry_36, Tiffany_36, AugsMagnumOpus_38, Mainiac_36, Cullens_36, Stagni_36, LugYA_38, Anubis_38, Phoebe_36, P28Green_36, Beauxregard13_36, MoneyMay_36, Marie_36, Sabinator_36, Hercules11_36, StepMih_36, MadMarie_36, PotatoSplit_37, SoYo_36, BreSam8_36, Sabia_36, MarQuardt_36
- Track 77 : Grub_36, DaHudson_36, GtownJaz_36, Aglet_36, Pembroke_36, Watson_36, Wooldri_38, PGHhamlin_38
- Track 78 : Heathen_33, HelDan_33, Puppy_34
- Track 79 : Kalb97_36, Reba_36, Manu_36, Marius_36, Groupthink_36, Kalnoky_36, Phranny_36, PurpleHaze_35, Pawn_35, Heliosoles_35, PhishRPhriends_34,

Gemma_35

- Track 80 : BabyJohn_32, Chiqui_32
- Track 81 : Microwolf_36, Lilith_36, Malinsilva_38, Farber_36
- Track 82 : Pistachio_34, SaturnRing_33, BlueBird_34, Idleandcovert_33, Bugatti_33
- Track 83 : Scout_33, Fred313_33, DropBear_33
- Track 84 : BabyRay_33
- Track 85 : MA5_33
- Track 86 : GingkoMaracino_36, Fernando_36, Snickers_36, Taurus_36, JenCasNa_36
- Track 87 : Jobu08_35, SoilDragon_35
- Track 88 : JF2_33, MK4_33, JF4_33
- Track 89 : JeppNRM_36, ACFishhook_35
- Track 90 : Kachowdy_33
- Track 91 : Giroux_33
- Track 92 : HaveUMetTed_36
- Track 93 : Isca_33
- Track 94 : Marchesa_33
- Track 95 : Rockstar_33
- Track 96 : Calvinny_36
- Track 97 : TNguyen7_33
- Track 98 : Zetzy_35
- Track 99 : Ollie_36
- Track 100 : OlanP_35
- Track 101 : Phantastic_33
- Track 102 : B1_31
- Track 103 : Melvin_33, TroyPia_33, BellusTerra_33, Commander_33
- Track 104 : Abdiel_32
- Track 105 : SheldonCooper_34, Cerulean_34, Obama12_34
- Track 106 : TinaFeyge_33
- Track 107 : Maxo_33, Eurydice_33, Eagle_32, Ohfah_33, Sparxx_33, Nebs_33, Polymorphads_33
- Track 108 : ChampagnePapi_34, LHTSCC_34
- Track 109 : Kampy_33, LeoAvram_33
- Track 110 : Phelipe_33
- Track 111 : Morrow_33
- Track 112 : BangNhom_33
- Track 113 : Medusa_33
- Track 114 : Yecey3_35
- Track 115 : Phrappuccino_38, Settecandela_38
- Track 116 : Sejanus_42
- Track 117 : Mao1_43
- Track 118 : Dori_45, Mask_46
- Track 119 : Farewell_44, Sparky_45
- Track 120 : KendraB23_42
- Track 121 : Vulpecula_33, Basilisk_34, Ruchi_33
- Track 122 : TaylorSipht_34
- Track 123 : Jamun_33
- Track 124 : Gravel_41, Pelletreau_41, Toad24_36, Westrich_40
- Track 125 : Galaxy_33
- Track 126 : Eesa_33
- Track 127 : Brynnie_33
- Track 128 : Abidatro_34
- Track 129 : Chickaboom_35

- Track 130 : Orcanus_34
- Track 131 : HannahPhantana_37, Bedetta_40, Cote_38, Coral_36, Polka_36
- Track 132 : Melons_38
- Track 133 : Kepler_38
- Track 134 : Amelia_36, Daob_38, Colusalem_39
- Track 135 : Lunar_38
- Track 136 : Kuleana_37
- Track 137 : Zhuangyuan_39
- Track 138 : LittleTokyo_36
- Track 139 : PhluffyCoco_36, Rattail_36
- Track 140 : Atlantica_36, RedFox_36, AmiCi24_35, KHumphrey_36, Camara_36, Juno112_35, HamCheese_35, Glotell_38
- Track 141 : Renna12_35
- Track 142 : Leona_35
- Track 143 : StuartMinion_30
- Track 144 : Andrew_37
- Track 145 : Aikyam_37, MaterMagnus_40, Gorpy_41, Raphaella_40, Sakai_40
- Track 146 : MaterMagnus_36
- Track 147 : Bhageatrice_40
- Track 148 : Sashimi_39
- Track 149 : Raphaella_36, BillyTP_37, CookieBear_37, Sakai_36, Auxilium_34, Gorpy_37, YoungHarleezy_36, Aikyam_33
- Track 150 : YoungHarleezy_40
- Track 151 : BenchScraper_39
- Track 152 : Hestia_38
- Track 153 : Hestia_36
- Track 154 : Faja_39
- Track 155 : Seahorse_41
- Track 156 : EvePickles_38
- Track 157 : Auxilium_38
- Track 158 : Seahorse_38
- Track 159 : Richie_40
- Track 160 : Sashimi_35
- Track 161 : BlueShadow_37
- Track 162 : Anekin_34
- Track 163 : Anekin_37
- Track 164 : ThayneTheZag_40
- Track 165 : Shukran_42
- Track 166 : Raqqa_32
- Track 167 : BillyTP_42
- Track 168 : Lawnathon_40
- Track 169 : Isolde_41
- Track 170 : MidnightRain_38
- Track 171 : Isolde_36
- Track 172 : Tiff81_34
- Track 173 : Tiff81_37
- Track 174 : Phrank15_39
- Track 175 : CookieBear_41
- Track 176 : Richie_36
- Track 177 : AbbyDaisy_36
- Track 178 : AdaS_36, MidnightRain_42
- Track 179 : ThayneTheZag_36
- Track 180 : Globfish_36

- Track 181 : Shukran_39
- Track 182 : Lawnathon_36
- Track 183 : SpicyFrank_39
- Track 184 : SpicyFrank_36
- Track 185 : Hillester_36, RadFad_36
- Track 186 : RadFad_40, Hillester_40
- Track 187 : Vopal_39
- Track 188 : Vopal_43
- Track 189 : Persistence_35
- Track 190 : Windest_40
- Track 191 : BlueShadow_40
- Track 192 : BenchScraper_36
- Track 193 : Globfish_39
- Track 194 : VWB_31
- Track 195 : SPB78_39
- Track 196 : Spooks_10
- Track 197 : Success_11
- Track 198 : PFR2_28, PFR1_26
- Track 199 : Culver_60
- Track 200 : Goib_39
- Track 201 : DinoDaryn_38, TZGordon_39, Huffy_38
- Track 202 : Vendetta_37, Splinter_37
- Track 203 : Banquo_37
- Track 204 : TinaLin_36
- Track 205 : Gspu1_28
- Track 206 : Schmidt_32
- Track 207 : Catfish_37
- Track 208 : Melba_35
- Track 209 : BlingBling_33
- Track 210 : Pipp_33
- Track 211 : Utz_31
- Track 212 : Jablanski_34, Pytheas_34
- Track 213 : Jablanski_39, Pytheas_39, WelcomeAyanna_38
- Track 214 : Cashline_38
- Track 215 : BeeGee_42
- Track 216 : LonelyBoi_37
- Track 217 : Posh_42
- Track 218 : Wrigley_43
- Track 219 : LonelyBoi_38
- Track 220 : Bradissa_36, EnalisNailo_35, Lilas_38
- Track 221 : Confidence_37
- Track 222 : Bradissa_35
- Track 223 : Floral_36, Pollux_38
- Track 224 : Floral_35
- Track 225 : Lilas_37, EnalisNailo_34
- Track 226 : EMSquaredA_36, Marteena_35, Pollux_37
- Track 227 : EMSquaredA_37, Marteena_36
- Track 228 : Confidence_36
- Track 229 : Angelique_39
- Track 230 : Ohgeesy_38, BaxterFox_37, PantheRoc_37
- Track 231 : Bunnybear_33
- Track 232 : Bunnybear_32
- Track 233 : Lton_34

- Track 234 : Pepperoni_31
- Track 235 : ThankyouJordi_38
- Track 236 : Nymphadora_39, Hugley_36, Eviarto_39, TimTam_39
- Track 237 : Bosnia_39
- Track 238 : Maridalia_39
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- Track 240 : Herod_39, BatStarr_39
- Track 241 : Agueybana_38
- Track 242 : BoyNamedSue_39, AlumE_39
- Track 243 : Madeline_35
- Track 244 : Kita_40
- Track 245 : Clap_37, GemG_37, Ebert_39, Lamberg_33, Mocha12_37, Haley23_37
- Track 246 : Nettuno_33, Savage_37, Matteo_30, Sproutie_37, TuertoX_37, Whiteclaw_37
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- Track 248 : JCole_37
- Track 249 : Bjanest7_34
- Track 250 : Pickett_32
- Track 251 : Vasanti_37
- Track 252 : FroggyToad_38
- Track 253 : Sahara_36
- Track 254 : Gizermo_37
- Track 255 : Cynthia_37
- Track 256 : Yeezy_36
- Track 257 : Samman98_36, Dolores_37, Thimann_34, WinkNick_38
- Track 258 : Invectra_37, MichaelScott_36, Beenie_30
- Track 259 : Adora_37, Samman98_40, Dolores_40, Twinkle_39, WinkNick_41, Howe_40, Shlim410_38, Beenie_33, Clark_39, Sekhmet_40, MichaelScott_40, Hortense_40
- Track 260 : Adora_34
- Track 261 : PhriskyACE_35
- Track 262 : Twinkle_35, Shlim410_35, Howe_36, Hortense_36
- Track 263 : Oregano_37
- Track 264 : Oregano_39
- Track 265 : Easley_35
- Track 266 : Annalisa_36
- Track 267 : Annalisa_34
- Track 268 : Invectra_40
- Track 269 : Powerball_37
- Track 270 : DobbysSock_30, Dorito_32, Clark_36
- Track 271 : Suerte_34
- Track 272 : Thimann_36, Mcklovin_36, DobbysSock_31
- Track 273 : PhriskyACE_36
- Track 274 : Mcklovin_34
- Track 275 : Dorito_34
- Track 276 : Denise_35
- Track 277 : OneDirection_30
- Track 278 : Faith5x5_30
- Track 279 : Moosehead_35
- Track 280 : Sidious_37
- Track 281 : RavenCo17_41

- Track 282 : Dmitri_36
- Track 283 : Moonflower_36
- Track 284 : BBQValindra_35
- Track 285 : Bowser_37
- Track 286 : Kiko_37
- Track 287 : Bunker_34
- Track 288 : YungMoney_41
- Track 289 : Bakery_42
- Track 290 : Mutzi_37
- Track 291 : PhorbesPhlower_33
- Track 292 : Lucky10_35
- Track 293 : Morkie_33
- Track 294 : Nadeem_39, Brylie_39, Mulch_39, Hamood_39, Ayotoya_39, Chop_39, GrandSlam_39, Parada_39, WheatThin_39
- Track 295 : BetterKatz_39, NancyRae_39
- Track 296 : Pimento_39, DelRio_40
- Track 297 : Bock_39
- Track 298 : Francois_38
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- Track 300 : Birdsong_47
- Track 301 : Ecliptus_49
- Track 302 : BotCity_51
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- Track 304 : CheeseTouch_54
- Track 305 : Periwinkle_57
- Track 306 : Phistory_51
- Track 307 : LitninMcQueen_43, Kamaru_44
- Track 308 : Leroy_50
- Track 309 : Phabuloso_48
- Track 310 : Asapag_47, Frickyeah_52
- Track 311 : BENtherdunthat_50
- Track 312 : Getalong_53, Kenna_49, Lutum_50
- Track 313 : ShawBrad_51
- Track 314 : Holliday_48
- Track 315 : Spooky_35
- Track 316 : Squiddly_37
- Track 317 : Crater_49, Horus_48
- Track 318 : Apricot_48
- Track 319 : Sixama_89
- Track 320 : Octobien14_6
- Track 321 : Kudfre_6
- Track 322 : Sephiroth_7
- Track 323 : Syleon_7
- Track 324 : Neville_8, Trax_8
- Track 325 : Rabbitrun_10
- Track 326 : DumpsterDude_40
- Track 327 : Malibo_38
- Track 328 : ArchiDore_38
- Track 329 : Ruthy_39
- Track 330 : Malibo_40
- Track 331 : Zodiariah_37
- Track 332 : MakCheese_48
- Track 333 : ArchiDore_40

- Track 334 : ObLaDi_35
- Track 335 : ModicumRichard_35, Aleemily_34, Cafasso_35
- Track 336 : Morgana_35
- Track 337 : Colleen_32, TouchMeNot_32, Arianna_32, Poushou_32
- Track 338 : Bran_28
- Track 339 : Lederberg_27, Troy_27, SamW_27
- Track 340 : Adelaide_25
- Track 341 : Stiles_27
- Track 342 : StAB_26
- Track 343 : Blarby_54
- Track 344 : Mattes_43, SwagPiggett_45, Saal_43, Gorge_43, DRBy19_43, BobaPhett_43, Zizzle_44, Philus_43, Whatsapiecost_41, James_43
- Track 345 : MilleniumForce_42
- Track 346 : Akhila_37, MilanaBonita_37
- Track 347 : DLane_41
- Track 348 : Ms6_36
- Track 349 : IrishSherpFalk_41, WillSterrel_41
- Track 350 : Cornucopia_45
- Track 351 : SuperGrey_42
- Track 352 : Emma_44, Moonbeam_41
- Track 353 : Hegedechwinu_41, Juice456_44
- Track 354 : Velveteen_37, Kingsley_38, Sarma624_38, Cerasum_38, Coco12_40, BigPhil_38
- Track 355 : Brushbloom_50
- Track 356 : PhesterPhotato_44, Phalconet_41
- Track 357 : Alexphander_45
- Track 358 : Mutaforma13_45
- Track 359 : Spartacus_41
- Track 360 : Hades_43
- Track 361 : Bipolar_39
- Track 362 : Estave1_43, DeadP_46, Wee_46, Renaud18_46, Taj_45
- Track 363 : Juniper1_40
- Track 364 : Brocalys_36, Clifton_35, Pippy_38, LastJedi_34
- Track 365 : Wachhund_44
- Track 366 : Mova_42
- Track 367 : Kenuha5_39
- Track 368 : Mozy_51, StAnnes_42
- Track 369 : KristaRAM_43
- Track 370 : Mandlovu_40, Strokeseat_41, Hlubikazi_41
- Track 371 : Enby_42, Lorde_42, SG4_40
- Track 372 : Ardmore_36
- Track 373 : EleanorGeorge_40, Beakin_43, LunaBlu_46, Galactic_43
- Track 374 : Rialto_46
- Track 375 : Flathead_44
- Track 376 : Phanphagia_37
- Track 377 : Fruitloop_40
- Track 378 : Rita_44
- Track 379 : SimranZ1_43
- Track 380 : ShroomBoi_42
- Track 381 : Melissauren88_42
- Track 382 : Bobi_46
- Track 383 : Byougenkin_40
- Track 384 : XFactor_41

- Track 385 : Shauna1_38
- Track 386 : DoRead_44
- Track 387 : Ovechkin_41
- Track 388 : CaptainTrips_41, MinionDave_43
- Track 389 : Filuzino_41
- Track 390 : Donkeykong_41
- Track 391 : Batiatus_43
- Track 392 : IMpilo_40
- Track 393 : VRedHorse_42
- Track 394 : Guppsters_43
- Track 395 : Minnie_43
- Track 396 : DosHalletts_40
- Track 397 : Soul22_46
- Track 398 : Squirty_35
- Track 399 : TChen_44, LunaStella_42
- Track 400 : ChuckDuck_39
- Track 401 : HotPotato_34
- Track 402 : Bridgette_38
- Track 403 : Bridgette_34
- Track 404 : FosterFrank_40
- Track 405 : Pucara_31
- Track 406 : ChuckDuck_35
- Track 407 : Constance_34, KayMoney_35, Judy_35
- Track 408 : Constance_38
- Track 409 : PeggyLeg03_34
- Track 410 : RootBeer_29
- Track 411 : Eileen_34
- Track 412 : GlobiWarming_35
- Track 413 : FosterFrank_36
- Track 414 : KayMoney_38
- Track 415 : Peas_35
- Track 416 : Karkharias_34
- Track 417 : GlobiWarming_38
- Track 418 : Judy_39
- Track 419 : Kumotta_30, MargaretKali_30
- Track 420 : Shoya_35
- Track 421 : Pigu_32
- Track 422 : Alatato_29
- Track 423 : Sarge_28
- Track 424 : BrayBeast_32
- Track 425 : QuinnAvery_38
- Track 426 : Popper_34
- Track 427 : Nandita_36
- Track 428 : Zaheer_36
- Track 429 : Cole_34
- Track 430 : Julie_35
- Track 431 : Lenoxika_36
- Track 432 : Ryan_36
- Track 433 : Kihatsu_37
- Track 434 : Halloweekend_34
- Track 435 : IsHungry_32
- Track 436 : Ichiang_34
- Track 437 : Gusanita_34

- Track 438 : AllBusiness_33
- Track 439 : Mufasa8_27
- Track 440 : Sonali_29
- Track 441 : Maruru_31
- Track 442 : Sunshine23_31
- Track 443 : TripleJ_37
- Track 444 : Kukla_36
- Track 445 : GUPitcher_34
- Track 446 : BlackSpider_31
- Track 447 : Bauer_39
- Track 448 : Bauer_32
- Track 449 : Zucker_31
- Track 450 : Zucker_29
- Track 451 : BlackSpider_36
- Track 452 : Maja_28
- Track 453 : Pitbull_33
- Track 454 : MrSmee_34
- Track 455 : Hum25_34
- Track 456 : Skitty_35
- Track 457 : Altostratus_43
- Track 458 : Khuang_45
- Track 459 : Che9c_41
- Track 460 : Sbash_40
- Track 461 : Dallas_80, NihilNomen_82, Halley_83, Dove_67, BAKA_86, Phoebus_84, Yeet_76, ThreeRngTarjay_79, Kalah2_76, Redno2_78, Beem_81, Hughesyang_81, Optimus_79, Wanda_85, Bombitas_71, Duke13_85, Minerva_84, JuicyJay_79, Bagrid_82, EricMillard_80, DmpstrDiver_82, Pound_82, Klein_81, HokkenD_73, Schatzie_77
- Track 462 : KashFlow_76, Constella_68, Ejimix_81, Thibault_69
- Track 463 : Gonephishing_76
- Track 464 : Bobby_80
- Track 465 : Zelink_79
- Track 466 : LittleE_82
- Track 467 : Courthouse_82, MiaZeal_87, Hannaconda_75, Omega_85, Ariel_86, Lucky2013_84, Porcelain_86, Squint_87
- Track 468 : Odette_80
- Track 469 : Superphikiman_84
- Track 470 : BarrelRoll_41, TruffulaTree_41, Adephegia_41, ActinUp_41, Atiba_41, Tachez_41, Padpat_42, HedwigODU_41, Jayhawk_42, Rapunzel97_41, Slimphazie_41, Veliki_41, Emerson_42
- Track 471 : Torres_39
- Track 472 : Amelie_36, Binglebops_36, Nikao_39, LilPharaoh_36, SgtBeansprout_36, Enkosi_39, Nutello_36
- Track 473 : AlishaPH_41, Beezoo_43, Tiri_42, Geraldini_43, Apocalypse_44, Pokerus_40
- Track 474 : Asayake_41, BEEST_41, Hyperbowlee_41, Durfee_41, Padfoot_41, Blizzard_41, CaseJules_42, ShiaSurprise_42, Boiii_41, Piatt_41
- Track 475 : Dartin_43, McMater_43, Richo_43
- Track 476 : KiSi_45
- Track 477 : JAWS_41
- Track 478 : Devera_45, Dole_44, Illumine_44, Stinson_42
- Track 479 : CrimD_41, Megsy_42

- Track 480 : CREW_41, Topper_41, Dalmuri_41, Rosmarinus_41, Belladonna_41, Homura_41, Inky_41, Lunahalos_41, Jeckyll_41, Peel_41, Llorens_41, BGIlluviae_41, Jarvi_41, Twitch_41
- Track 481 : LindNT_41, Prithvi_42, TreyKay_42
- Track 482 : Ageofdapage_43, LaterM_42, Murucutumbu_42
- Track 483 : Chris_43
- Track 484 : Adonis_41, Anaya_43
- Track 485 : Nibb_43
- Track 486 : Guanica15_44, Yunkel11_44
- Track 487 : Spock_41
- Track 488 : Capricorn_41
- Track 489 : MeaningOfLife_42, Zavala_42, Mynx_42
- Track 490 : CheetoDust_40, BaghaKamala_40
- Track 491 : MarkPhew_44
- Track 492 : Sulley_41, Deby_41
- Track 493 : Bella96_42
- Track 494 : DrHayes_42, SamuelLPlaqson_42, Urkel_42, TiniBug_42
- Track 495 : Ramen_41
- Track 496 : Validus_45
- Track 497 : Joy99_41
- Track 498 : QuincyRose_40, Ganymede_42
- Track 499 : Efra2_44
- Track 500 : Niklas_43
- Track 501 : LeMond_45
- Track 502 : Clipper_45
- Track 503 : Mdavu_37
- Track 504 : Scarlett_45, Oscar_45
- Track 505 : Shaobing_43
- Track 506 : Angelica_41
- Track 507 : YoureAdopted_40
- Track 508 : TaiwanKao_43
- Track 509 : Peanam_43
- Track 510 : Strobilo_43
- Track 511 : BoostSeason_44, Findley_43, Milly_43, ZoeJ_43
- Track 512 : DismalStressor_43, Marcoliusprime_43, DismalFunk_43
- Track 513 : Mufasa_44
- Track 514 : Marshawn_44
- Track 515 : TClif_45
- Track 516 : Tortellini_32
- Track 517 : Xavia_34
- Track 518 : ThulaThula_35
- Track 519 : Luke_29, Amymech_29, Giles_29, Webster2_29, LilHazelnut_29, Forge_29, Kinbote_29, Hadrien_29, Evanesce_29, Wishmaker_29, Ein37_29, Dewey_29, HH92_29, Hail_29, Luna22_29, Ubuntu_29, DeepSoil15_29
- Track 520 : Gancho_28
- Track 521 : Gravaillia_29
- Track 522 : OBUpride_29
- Track 523 : Amochick_29, Daegal_30
- Track 524 : Gaia_52, Nebkiss_56
- Track 525 : TPA4_37
- Track 526 : REQ3_01
- Track 527 : ArV2_29
- Track 528 : Sleepyhead_38

- Track 529 : MooMoo_41
- Track 530 : Juicebox_26
- Track 531 : GMA4_29
- Track 532 : Mbo4_31
- Track 533 : Chymera_32
- Track 534 : OnionKnight_30
- Track 535 : Spartoi_37
- Track 536 : TurkishDelight_52
- Track 537 : Finkle_45
- Track 538 : GMA1_30
- Track 539 : LilSpotty_38
- Track 540 : DillyDally_29
- Track 541 : Ball_25
- Track 542 : REQ2_38
- Track 543 : Footloose_31
- Track 544 : VanLee_32

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

The start number called the most often in the published annotations is 163, it was called in 283 of the 798 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AbbyDaisy_36, ActinUp_41, AdaS_36, Adephegia_41, Adonis_41, Adora_37, Ageofdapage_43, Aikyam_37, Akhila_37, Alatato_29, Alexphander_45, AlishaPH_41, Amelie_36, Anaya_43, Anekin_37, Angelica_41, Annalisa_36, Apocalypse_44, Apricot_48, ArV2_29, Ardmore_36, Asapag_47, Asayake_41, Atiba_41, Auxilium_38, BEEST_41, BENtherdunthat_50, BGlluviae_41, BaghaKamala_40, BarrelRoll_41, Batiatus_43, Bauer_39, Beakin_43, BeeGee_42, Beenie_33, Beezoo_43, Bella96_42, Belladonna_41, BenchScraper_39, Bhageatrice_40, BigPhil_38, Biglebops_36, BillyTP_42, Bipolar_39, Birdsong_47, BlackSpider_36, Blarby_54, Blizzard_41, BlueShadow_40, BobaPhett_43, Bobi_46, Boiiii_41, BoostSeason_44, BotCity_51, BrayBeast_32, Bridgette_38, Brocalys_36, Brushbloom_50, Budski_49, Byougenkin_40, CREW_41, Capricorn_41, CaptainTrips_41, CaseJules_42, Cashline_38, Cerasum_38, CheeseTouch_54, CheetoDust_40, Chris_43, ChuckDuck_39, Chymera_32, Clark_39, Clifton_35, Clipper_45, Coco12_40, Constance_38, CookieBear_41, Cornucopia_45, Crater_49, CrimD_41, DLane_41, DRBy19_43, Dalmuri_41, Dartin_43, DeadP_46, Deby_41, Denise_35, Devera_45, DismalFunk_43, DismalStressor_43, DoRead_44, DobbysSock_31, Dole_44, Dolores_40, Donkeykong_41, Dorito_34, DosHalletts_40, DrHayes_42, Durfee_41, EMSquaredA_37, Ecliptus_49, Efra2_44, Eileen_34, EleanorGeorge_40, Emerson_42, Emma_44, Enby_42, Enkosi_39, Estave1_43, EvePickles_38, Faja_39, Filuzino_41, Findley_43, Flathead_44, Floral_36, Footloose_31, FosterFrank_40, Frickyeah_52, Fruitloop_40, GMA1_30, Galactic_43, Ganymede_42, Geraldini_43, Getalong_53, Globfish_39, GlobiWarming_38, Gorge_43, Gorpy_41, Guanica15_44, Guppsters_43, Hades_43, HedwigODU_41, Hegedechwinu_41, Hillester_40, Hlubikazi_41, Holliday_48, Homura_41, Hortense_40, Horus_48, Howe_40, Hyperbowlee_41, IMPilo_40, Illumine_44, Inky_41, Invectra_40, IrishSherpFalk_41, Isolde_41, JAWS_41, James_43, Jarvi_41, Jayhawk_42, Jeckyll_41, Joy99_41, Judy_39, Juice456_44, Juniper1_40, Kamaru_44, KayMoney_38, Kenna_49,

Kenuha5_39, KiSi_45, Kingsley_38, KristaRAM_43, LastJedi_34, LaterM_42, Lawnathon_40, LeMond_45, Leroy_50, LilPharaoh_36, LilSpotty_38, LindNT_41, LitninMcQueen_43, Llorens_41, Lorde_42, Lton_34, Lucky10_35, LunaBlu_46, LunaStella_42, Lunahalos_41, Lutum_50, Malec_36, Mandlovu_40, Marcoliusprime_43, MarkPhew_44, Marshawn_44, Marteena_36, MaterMagnus_40, Mattes_43, McMater_43, Mcklovin_36, MeaningOfLife_42, Megsy_42, Melissauren88_42, MichaelScott_40, MidnightRain_42, MilanaBonita_37, MilleniumForce_42, Milly_43, MinionDave_43, Minnie_43, MooMoo_41, Moonbeam_41, Mova_42, Mozy_51, Ms6_36, Mufasa8_27, Mufasa_44, Murucutumbu_42, Mutaforma13_45, Mynx_42, Nibb_43, Nikao_39, Niklas_43, Nutello_36, ODay_52, Oregano_39, Oscar_45, Ovechkin_41, Padfoot_41, Padpat_42, Peanam_43, Peas_35, Peel_41, Periwinkle_57, Persistence_35, Phabuloso_48, Phalconet_41, Phanphagia_37, PhesterPotato_44, Philus_43, Phistory_51, Phrank15_39, Phrappuccino_38, Piatt_41, Pippy_38, Pokerus_40, Pollux_38, Prithvi_42, QuincyRose_40, RadFad_40, Ramen_41, Raphaella_40, Rapunzel97_41, RavenCo17_41, Renaud18_46, Rialto_46, Richie_40, Richo_43, Rita_44, RootBeer_29, Rosmarinus_41, SG4_40, Saal_43, Sakai_40, Samman98_40, SamuelLPlaqson_42, Sarge_28, Sarma624_38, Sashimi_39, Scarlett_45, Seahorse_41, Sekhmet_40, Settecandela_38, SgtBeansprout_36, Shaobing_43, Shauna1_38, ShawBrad_51, ShiaSurprise_42, Shlim410_38, Shoya_35, ShroomBoi_42, Shukran_42, SimranZ1_43, Slimphazie_41, Sonali_29, Soul22_46, Spartacus_41, SpicyFrank_39, Spock_41, Squirty_35, StAnnes_42, Stinson_42, Strobilo_43, Strokeseat_41, Sulley_41, SuperGrey_42, SwagPigglett_45, TChen_44, TClif_45, Tachez_41, TaiwanKao_43, Taj_45, ThayneTheZag_40, Thimann_36, Tiff81_37, TiniBug_42, Tiri_42, Topper_41, TreyKay_42, TruffulaTree_41, Twinkle_39, Twitch_41, Urkel_42, VRedHorse_42, Validus_45, Veliki_41, Velveteen_37, Vopal_43, Wachhund_44, Wee_46, Whatsapiecost_41, WillSterrel_41, Windest_40, WinkNick_41, XFactor_41, YoungHarleezy_40, YoureAdopted_40, Yunkel11_44, Zavala_42, Zizzle_44, ZoeJ_43, Zucker_31,

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

• Maruru_31, Mdavu_37, Raqqa_32, Spartoi_37, Sunshine23_31, Torres_39,

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

• ACFishhook_35, AN3_33, AN9_36, ANI8_36, AbbyPaige_35, Abdiel_32, Abidatro_34, Acolyte_34, Adelaide_25, Adora_34, Adzzy_35, Agape74_35, Aglet_36, Agueybana_38, Aikyam_33, Aleemily_34, AllBusiness_33, Altostratus_43, AlumE_39, Amelia_36, AmiCi24_35, Amochick_29, Amymech_29, Andrew_37, Anekin_34, Angelique_39, Annalisa_34, Anselm_35, Antonio_39, Anubis_38, ArchiDore_38, ArchiDore_40, Arianna_32, Ariel_86, Atlantica_36, Attis_34, AugsMagnumOpus_38, Auxilium_34, Ayotoya_39, B1_31, BAKA_86, BBQValindra_35, BabyJohn_32, BabyRay_33, Bactobuster_35, Baehexic_34, Bagrid_82, Bakery_42, Ball_25, BangNhom_33, Banquo_37, Basilisk_34, BatStarr_39, Bauer_32, BaxterFox_37, Beauxregard13_36, Bedetta_40, Beem_81, Beenie_30, BellusTerra_33, BenchScraper_36, BetterKatz_39, Bialota_37, BiancaTri92_35, BillyTP_37, Bjanes7_34, BlackSpider_31, BlingBling_33, BlueBird_34, BlueShadow_37, Bobby_80, Bock_39, Bombitas_71, Bosnia_39, Bowser_37, BoyNamedSue_39, Bradissa_35, Bradissa_36, Bradman_34, Bran_28, BreSam8_36, Bridgette_34, Brylie_39, Brynnie_33, Bugatti_33, Buggy_36, Bunker_34, Bunnybear_32, Bunnybear_33, C3_31, Cafasso_35, Calvinny_36, Camara_36, Caraxes_33, Catfish_37, Centaur_35, Cerulean_34, ChampagnePapi_34, Che12_36, Che9c_41, Chickaboom_35, ChipMunk_36, Chiqui_32, Chop_39, ChuckDuck_35, Clap_37, Clark_36, Colbster_36, Cole_34, Colin_37, Colleen_32, Colusalem_39,

Commander_33, Confidence_36, Confidence_37, Constance_34, Constella_68, CookieBear_37, Coral_36, Cote_38, Courthouse_82, Crucio_34, Cullens_36, Culver_60, Cynthia_37, D29_33, D32_37, DBQu4n_37, DaHudson_36, Daegal_30, Dallas_80, Dalmatian_35, Daob_38, DeepSoil15_29, DelRio_40, Dewey_29, Dieselweasel_36, Dignity_35, DillyDally_29, DinoDaryn_38, Dmitri_36, DmpstrDiver_82, DobbysSock_30, Dolores_37, Dori_45, Dorito_32, Dove_67, Drake55_36, DropBear_33, DudeLittle_33, Duke13_85, DumpsterDude_40, Duplo_37, EMSquaredA_36, Eagle_32, Easley_35, Ebert_39, EdnaMode_33, Eesa_33, Ein37_29, Ejimix_81, EnalisNailo_34, EnalisNailo_35, EpicPhail_36, Equemioh13_35, EricMillard_80, Eudoria_39, Eurydice_33, Evanesce_29, Eviarto_39, EvilGenius_36, Faith5x5_30, Fameo_34, Farber_36, Farewell_44, Fernando_36, Finkle_45, FiringLine_34, Flare16_34, Floral_35, Forge_29, FosterFrank_36, Francois_38, Fred313_33, FroggyToad_38, GMA4_29, GUPitcher_34, Gaia_52, Galaxy_33, Gancho_28, GaugeLDP_35, GemG_37, Gemma_35, Georgie2_35, Giles_29, GingkoMaracino_36, Giroux_33, Gizermo_37, Globfish_36, GlobiWarming_35, Glotell_38, Goib_39, Gonephishing_76, Gorpy_37, GrandSlam_39, Gravailia_29, Gravel_41, Grif_36, Groupthink_36, Grub_36, Grum1_36, Gspu1_28, GtownJaz_36, Gusanita_34, HH92_29, Hadrien_29, Hail_29, Haley23_37, Halley_83, Halloweekend_34, HamCheese_35, Hamood_39, Hannaconda_75, HannahPhantana_37, HarryHoudini_36, HaveUMetTed_36, Heathen_33, Heffalump_35, HelDan_33, Heliosoles_35, Hercules11_36, Herod_39, Hestia_36, Hestia_38, Hillester_36, HokkenD_73, Hortense_36, HotPotato_34, Howe_36, Huffy_38, Hughesyang_81, Hugley_36, Hum25_34, Hyzer_43, Ichiang_34, Idleandcovert_33, Invectra_37, IronMan_36, IsHungry_32, Isca_33, Isolde_36, Iwokeuplikedis_34, JCole_37, JF2_33, JF4_33, JHC117_36, Jaan_37, Jablanski_34, Jablanski_39, Jamun_33, JenCasNa_36, JeppNRM_36, Jerm_35, Jobu08_35, JoshKayV_35, Journey13_31, Jsquared_34, Judy_35, Juicebox_26, JuicyJay_79, Julie_35, Juno112_35, KHumphrey_36, Kachowdy_33, Kalah2_76, Kalb97_36, Kalnok_36, Kalpine_35, Kampy_33, Karkharias_34, KashFlow_76, KayMoney_35, KendraB23_42, Kepler_38, Kerberos_37, Khuang_45, Kihatsu_37, Kiko_37, Kimona_30, Kinbote_29, KingCyrus_36, Kita_40, Klein_81, Koduck_33, Kudrefre_6, Kukla_36, Kuleana_37, Kumotta_30, L5_33, LBerry_36, LHTSCC_34, Lamberg_33, Landor_35, Larenn_35, Lawnathon_36, Lederberg_27, Lenoxika_36, LeoAvram_33, Leogania_35, Leona_35, Leviathan_35, LilHazelnut_29, LilTurb_34, Lilas_37, Lilas_38, Lilit_36, LittleE_82, LittleTokyo_36, LonelyBoi_37, LonelyBoi_38, LordFarquaad_35, Lucky2013_84, LugYA_38, Luke_29, Luna22_29, Lunar_38, MA5_33, MK4_33, MadMarie_36, Madeline_35, Mainiac_36, Maja_28, MajorMajor_34, MakCheese_48, Malibo_38, Malibo_40, Malinsilva_38, Manasvini_39, Manu_36, Mao1_43, MarQuardt_36, Marchesa_33, MargaretKali_30, Maridalia_39, Marie_36, Marius_36, Marteena_35, Mask_46, MaterMagnus_36, Matteo_30, Maxo_33, Mbo4_31, Mcklovin_34, Medusa_33, Melba_35, Melons_38, Melvin_33, MiaZeal_87, MichaelScott_36, Microwolf_36, MiculUcigas_34, MidnightRain_38, Minerva_84, MissWhite_33, Mocha12_37, ModicumRichard_35, MoneyMay_36, Moonflower_36, Moosehead_35, Morgana_35, Morkie_33, Morrow_33, MrSmee_34, MuchMore_38, Mulch_39, Mutzi_37, NaSiaTalie_34, Nadeem_39, Naji_37, NancyRae_39, Nandita_36, Nebkiss_56, Nebs_33, Neobush_39, Nettuno_33, Neville_8, NicoleTera_37, NihilNomen_82, NothingSpecial_35, Nymphadora_39, OBUpride_29, ObLaDi_35, Obama12_34, Octobien14_6, Odette_80, Odin_33, Ohfah_33, Ohgeesy_38, OlanP_35, Ollie_36, Omega_85, OneDirection_30, OnionKnight_30, Optimus_79, Orcanus_34, Oregano_37, P28Green_36, PFR1_26, PFR2_28, PGHhamlin_38, PantheRoc_37, Parada_39, Pawn_35, PeggyLeg03_34, Pelletreau_41, Pembroke_36, Penny1_36, Pepperoni_31, Ph8s_35, Phaded_37, Phantastic_33, Pharaoh_32, Phelipe_33,

PhishRPhriends_34, PhluffyCoco_36, Phoebe_36, Phoebus_84,
 PhorbesPhlower_33, Phranny_36, PhriskyACE_35, PhriskyACE_36, Pickett_32,
 Pigu_32, Pimento_39, Pipp_33, Piro94_34, Pistachio_34, Pitbull_33, Polka_36,
 Pollux_37, Polly_36, Polymorphads_33, Pomar16_37, Popper_34, Porcelain_86,
 Posh_42, PotatoSplit_37, Pound_82, Poushou_32, Power_33, Powerball_37,
 Pucara_31, Pukovnik_35, Puppy_34, PurpleHaze_35, Pytheas_34, Pytheas_39,
 QueenB2_34, QueenBeesly_34, QuinnAvery_38, Quokka_33, REQ2_38, REQ3_01,
 Rabbitrun_10, RadFad_36, Raphaella_36, Rattail_36, Reba_36, RedFox_36,
 Redno2_78, Renna12_35, Retro23_35, Richie_36, Rockstar_33, Ruchi_33,
 Ruthy_39, Ryan_36, SPB78_39, Sabia_36, Sabinator_36, Sahara_36, Sakai_36,
 SamW_27, Samman98_36, Sashimi_35, SaturnRing_33, Savage_37, Sbash_40,
 Schatzie_77, Schmidt_32, Scout_33, Seahorse_38, Sejanus_42, SemperFi_35,
 Sephiroth_7, Serenity_34, SheldonCooper_34, Shlim410_35, Shukran_39,
 Sidious_37, Sixama_89, Skitty_35, Sknot_35, Sleepyhead_38, Smeagan_36,
 SnapTap_34, Snickers_36, SoYo_36, SoilAssassin_34, SoilDragon_35, Sparky_45,
 Sparxx_33, SpicyFrank_36, Splinter_37, Spooks_10, Spooky_35, Sproutie_37,
 Squiddly_37, Squint_87, StAB_26, Stagni_36, StarStuff_37, StepMih_36, Stiles_27,
 StuartMinion_30, Success_11, Suerte_34, Superchunk_33, Superphikiman_84,
 Suscepit_39, SweetiePie_34, SwirlSquare_35, Syleon_7, TNguyen7_33, TPA4_37,
 TZGordon_39, TarsusIV_33, Taurus_36, TaylorSipht_34, Tayonia_39,
 ThankyouJordi_38, ThayneTheZag_36, Thibault_69, Thimann_34,
 ThreeRngTarjay_79, ThulaThula_35, Tiff81_34, Tiffany_36, TimTam_39,
 TinaFeyge_33, TinaLin_36, TopsytheTRex_33, Toad24_36, Tomathan_37,
 Tortellini_32, TouchMeNot_32, Travvers_37, Trax_8, TripleJ_37, Trixie_35,
 Trooper_35, TroyPia_33, Troy_27, Trumpet_39, TuertoX_37, Turbido_34,
 TurkishDelight_52, Twinkle_35, Ubuntu_29, Updawg_35, Utz_31, VA6_33, VC3_36,
 VWB_31, VanLee_32, Vasanti_37, Vendetta_37, Vix_36, Vopal_39, Vulpecula_33,
 Wanda_85, Watson_36, Webster2_29, WeiHuaDA_38, WelcomeAyanna_38,
 Westrich_40, Whabigail7_34, WheatThin_39, Whiteclaw_37, WideWale_35,
 WinkNick_38, Wishmaker_29, Wooldri_38, Wrigley_43, Xavia_34, XianYue_35,
 Yecey3_35, Yeet412_34, Yeet_76, Yeezy_36, YoungHarleezy_36, YungMoney_41,
 Zaheer_36, Zameen_39, Zelink_79, Zetzy_35, Zhuangyuan_39, Zimmer_35,
 Zirinka_36, Zodiariah_37, Zucker_29,

Summary by start number:

Start 30:

- Found in 9 of 939 (1.0%) of genes in pham
- No Manual Annotations of this start.
- Called 11.1% of time when present
- Phage (with cluster) where this start called: Torres_39 (K1),

Start 32:

- Found in 9 of 939 (1.0%) of genes in pham
- Manual Annotations of this start: 1 of 798
- Called 11.1% of time when present
- Phage (with cluster) where this start called: Mdavu_37 (K1),

Start 39:

- Found in 1 of 939 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 798
- Called 100.0% of time when present
- Phage (with cluster) where this start called: TurkishDelight_52 (singleton),

Start 65:

- Found in 12 of 939 (1.3%) of genes in pham
- Manual Annotations of this start: 1 of 798
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Gonephishing_76 (J), Superphikiman_84 (J),

Start 69:

- Found in 13 of 939 (1.4%) of genes in pham
- Manual Annotations of this start: 10 of 798
- Called 76.9% of time when present
- Phage (with cluster) where this start called: Ariel_86 (J), Courthouse_82 (J), Gaia_52 (X), Hannaconda_75 (J), Lucky2013_84 (J), MiaZeal_87 (J), Nebkiss_56 (X), Omega_85 (J), Porcelain_86 (J), Squint_87 (J),

Start 83:

- Found in 16 of 939 (1.7%) of genes in pham
- Manual Annotations of this start: 2 of 798
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Gizermo_37 (CZ2), Sahara_36 (CZ2),

Start 85:

- Found in 32 of 939 (3.4%) of genes in pham
- Manual Annotations of this start: 29 of 798
- Called 93.8% of time when present
- Phage (with cluster) where this start called: BAKA_86 (J), Bagrid_82 (J), Beem_81 (J), Bobby_80 (J), Bombitas_71 (J), Constella_68 (J), Dallas_80 (J), DmpstrDiver_82 (J), Dove_67 (J), Duke13_85 (J), Ejimix_81 (J), EricMillard_80 (J), Halley_83 (J), HokkenD_73 (J), Hughesyang_81 (J), JuicyJay_79 (J), Kalah2_76 (J), KashFlow_76 (J), Klein_81 (J), Minerva_84 (J), NihilNomen_82 (J), Optimus_79 (J), Phoebus_84 (J), Pound_82 (J), Redno2_78 (J), Schatzie_77 (J), Thibault_69 (J), ThreeRngTarjay_79 (J), Wanda_85 (J), Yeet_76 (J),

Start 86:

- Found in 54 of 939 (5.8%) of genes in pham
- Manual Annotations of this start: 6 of 798
- Called 11.1% of time when present
- Phage (with cluster) where this start called: BatStarr_39 (CZ1), Bjanes7_34 (CZ2), Cynthia_37 (CZ2), Herod_39 (CZ1), Kita_40 (CZ1), ThankyouJordi_38 (CZ1),

Start 89:

- Found in 3 of 939 (0.3%) of genes in pham
- Manual Annotations of this start: 3 of 798
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Lederberg_27 (EP), SamW_27 (EP), Troy_27 (EP),

Start 91:

- Found in 55 of 939 (5.9%) of genes in pham
- Manual Annotations of this start: 1 of 798
- Called 1.8% of time when present
- Phage (with cluster) where this start called: Zelink_79 (J),

Start 103:

- Found in 36 of 939 (3.8%) of genes in pham
- Manual Annotations of this start: 3 of 798
- Called 8.3% of time when present
- Phage (with cluster) where this start called: GaugeLDP_35 (A2), Kumotta_30 (FB), MargaretKali_30 (FB),

Start 105:

- Found in 1 of 939 (0.1%) of genes in pham
- Manual Annotations of this start: 1 of 798
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Faith5x5_30 (CZ6),

Start 106:

- Found in 8 of 939 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 798
- Called 37.5% of time when present
- Phage (with cluster) where this start called: OnionKnight_30 (singleton), SPB78_39 (BA), VWB_31 (BA),

Start 110:

- Found in 9 of 939 (1.0%) of genes in pham
- Manual Annotations of this start: 1 of 798
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Hestia_38 (AY), MakCheese_48 (DW), Pigu_32 (FB),

Start 112:

- Found in 48 of 939 (5.1%) of genes in pham
- Manual Annotations of this start: 1 of 798
- Called 4.2% of time when present
- Phage (with cluster) where this start called: LittleE_82 (J), Odette_80 (J),

Start 116:

- Found in 22 of 939 (2.3%) of genes in pham
- Manual Annotations of this start: 3 of 798
- Called 13.6% of time when present
- Phage (with cluster) where this start called: Abdiel_32 (A4), Phelipe_33 (A4), TinaFeyge_33 (A4),

Start 118:

- Found in 8 of 939 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 798
- Called 12.5% of time when present
- Phage (with cluster) where this start called: B1_31 (A3),

Start 123:

- Found in 24 of 939 (2.6%) of genes in pham
- Manual Annotations of this start: 7 of 798
- Called 29.2% of time when present
- Phage (with cluster) where this start called: AbbyPaige_35 (A2), Agape74_35 (A2), ChipMunk_36 (A2), Larenn_35 (A2), Leviathan_35 (A2), LilTurb_34 (A2),

Whabigail7_34 (A2),

Start 126:

- Found in 5 of 939 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 798
- Called 40.0% of time when present
- Phage (with cluster) where this start called: Spooks_10 (BT), Success_11 (BT),

Start 133:

- Found in 2 of 939 (0.2%) of genes in pham
- Manual Annotations of this start: 2 of 798
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Phantastic_33 (A3), TNguyen7_33 (A3),

Start 136:

- Found in 1 of 939 (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: GMA4_29 (singleton),

Start 138:

- Found in 16 of 939 (1.7%) of genes in pham
- Manual Annotations of this start: 7 of 798
- Called 43.8% of time when present
- Phage (with cluster) where this start called: Dignity_35 (A2), IronMan_36 (A2), Jerm_35 (A2), KingCyrus_36 (A2), Pharaoh_32 (A12), Turbido_34 (A2), Yecey3_35 (A9),

Start 139:

- Found in 3 of 939 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 798
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Landor_35 (A2),

Start 140:

- Found in 8 of 939 (0.9%) of genes in pham
- Manual Annotations of this start: 3 of 798
- Called 62.5% of time when present
- Phage (with cluster) where this start called: BabyJohn_32 (A3), BabyRay_33 (A3), Chiqui_32 (A3), Jaan_37 (A2), Pukovnik_35 (A2),

Start 141:

- Found in 3 of 939 (0.3%) of genes in pham
- Manual Annotations of this start: 2 of 798
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Finkle_45 (singleton), Gsput1_28 (CU2), Schmidt_32 (CU4),

Start 142:

- Found in 5 of 939 (0.5%) of genes in pham
- Manual Annotations of this start: 4 of 798
- Called 80.0% of time when present

- Phage (with cluster) where this start called: Arianna_32 (EO), Colleen_32 (EO), Poushou_32 (EO), TouchMeNot_32 (EO),

Start 145:

- Found in 23 of 939 (2.4%) of genes in pham
- Manual Annotations of this start: 2 of 798
- Called 8.7% of time when present
- Phage (with cluster) where this start called: Gancho_28 (Q), OBUpride_29 (Q),

Start 146:

- Found in 6 of 939 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 798
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Altostratus_43 (FS), Khuang_45 (FS), MrSmeem_34 (FQ), Pitbull_33 (FQ), Skitty_35 (FQ),

Start 147:

- Found in 85 of 939 (9.1%) of genes in pham
- Manual Annotations of this start: 63 of 798
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abidatro_34 (AS1), Aleemily_34 (DZ), Amelia_36 (AS2), AmiCi24_35 (AS3), Andrew_37 (AS3), ArchiDore_40 (DW), Atlantica_36 (AS3), Ayotoya_39 (DI), Basilisk_34 (AS1), BaxterFox_37 (CZ3), Bedetta_40 (AS2), BetterKatz_39 (DI), Bock_39 (DI), Brylie_39 (DI), Brynnie_33 (AS1), Cafasso_35 (DZ), Camara_36 (AS3), Chickaboom_35 (AS1), Chop_39 (DI), Colusalem_39 (AS2), Coral_36 (AS2), Cote_38 (AS2), Daob_38 (AS2), DelRio_40 (DI), DumpsterDude_40 (DW), Easley_35 (CZ4), Eesa_33 (AS1), Francois_38 (DI), FroggyToad_38 (CZ2), Galaxy_33 (AS1), Glotell_38 (AS3), GrandSlam_39 (DI), Gravel_41 (AS1), HamCheese_35 (AS3), Hamood_39 (DI), HannahPhantana_37 (AS2), JCole_37 (CZ2), Jamun_33 (AS1), Juno112_35 (AS3), KHumphrey_36 (AS3), KendraB23_42 (AS1), Kepler_38 (AS2), Kuleana_37 (AS2), Leona_35 (AS3), LittleTokyo_36 (AS2), Lunar_38 (AS2), Madeline_35 (CZ1), Malibo_40 (DW), Melons_38 (AS2), ModicumRichard_35 (DZ), Morgana_35 (DZ), Mulch_39 (DI), Nadeem_39 (DI), NancyRae_39 (DI), ObLaDi_35 (DZ), Ohgeesy_38 (CZ), Orcanus_34 (AS1), PantheRoc_37 (CZ3), Parada_39 (DI), Pelletreau_41 (AS1), PhluffyCoco_36 (AS3), PhriskyACE_36 (CZ4), Pimento_39 (DI), Polka_36 (AS2), Powerball_37 (CZ4), Rattail_36 (AS3), RedFox_36 (AS3), Renna12_35 (AS3), Ruchi_33 (AS1), Ruthy_39 (DW), Sidious_37 (CZ7), StuartMinion_30 (AS3), Suerte_34 (CZ4), TPA4_37 (singleton), TaylorSipht_34 (AS1), Toad24_36 (AS1), Tortellini_32 (P2), Vasanti_37 (CZ2), Vulpecula_33 (AS1), Westrich_40 (AS1), WheatThin_39 (DI), Xavia_34 (P3), Yeezy_36 (CZ3), Zhuangyuan_39 (AS2), Zodiariah_37 (DW),

Start 149:

- Found in 7 of 939 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 798
- Called 42.9% of time when present
- Phage (with cluster) where this start called: Mbo4_31 (singleton), REQ3_01 (singleton), VanLee_32 (singleton),

Start 151:

- Found in 7 of 939 (0.7%) of genes in pham
- Manual Annotations of this start: 3 of 798

- Called 42.9% of time when present
- Phage (with cluster) where this start called: Juicebox_26 (singleton), Sleepyhead_38 (singleton), StAB_26 (EP),

Start 152:

- Found in 172 of 939 (18.3%) of genes in pham
- Manual Annotations of this start: 119 of 798
- Called 73.3% of time when present
- Phage (with cluster) where this start called: ACFishhook_35 (A3), AN3_33 (A2), AN9_36 (A2), ANI8_36 (A2), Aglet_36 (A3), Anselm_35 (A2), Anubis_38 (A3), AugsMagnumOpus_38 (A3), Baehexic_34 (A2), BangNhom_33 (A4), Beauxregard13_36 (A3), BellusTerra_33 (A4), BlueBird_34 (A3), Bradman_34 (A2), BreSam8_36 (A3), Bugatti_33 (A3), Buggy_36 (A2), Centaur_35 (A2), Colbster_36 (A3), Commander_33 (A4), Cullens_36 (A3), D29_33 (A2), D32_37 (A2), DBQu4n_37 (A2), DaHudson_36 (A3), Dalmatian_35 (A2), Dieselweasel_36 (A3), DropBear_33 (A3), Duplo_37 (A2), Eagle_32 (A4), EpicPhail_36 (A3), Equemioh13_35 (A2), Eurydice_33 (A4), Fred313_33 (A3), Gemma_35 (A3), Grif_36 (A3), Groupthink_36 (A3), Grub_36 (A3), Grum1_36 (A3), GtownJaz_36 (A3), HaveUMetTed_36 (A3), Heathen_33 (A3), HelDan_33 (A3), Heliosoles_35 (A3), Hercules11_36 (A3), Idleandcovert_33 (A3), Isca_33 (A3), Iwokeuplikedis_34 (A2), JF2_33 (A3), JF4_33 (A3), JHC117_36 (A3), JeppNRM_36 (A3), Jobu08_35 (A3), Journey13_31 (A2), Jsquared_34 (A2), Kalb97_36 (A3), Kalnoky_36 (A3), Kimona_30 (A19), LBerry_36 (A3), Leogania_35 (A2), LugYA_38 (A3), MA5_33 (A3), MK4_33 (A3), MadMarie_36 (A3), Mainiac_36 (A3), MajorMajor_34 (A2), Manu_36 (A3), MarQuardt_36 (A3), Marie_36 (A3), Marius_36 (A3), Maxo_33 (A4), Melvin_33 (A4), MiculUcigas_34 (A2), MissWhite_33 (A2), MoneyMay_36 (A3), Morrow_33 (A4), MuchMore_38 (A3), Naji_37 (A2), Nebs_33 (A4), NicoleTera_37 (A2), Ohfah_33 (A4), OlanP_35 (A3), P28Green_36 (A3), PGHhamlin_38 (A3), Pawn_35 (A3), Pembroke_36 (A3), Penny1_36 (A3), Phaded_37 (A2), PhishRPhriends_34 (A3), Phoebe_36 (A3), Phranny_36 (A3), Piro94_34 (A2), Pistachio_34 (A3), Polymorphads_33 (A4), PotatoSplit_37 (A3), Puppy_34 (A3), PurpleHaze_35 (A3), QueenB2_34 (A2), Quokka_33 (A2), Reba_36 (A3), Retro23_35 (A2), Rockstar_33 (A3), Sabia_36 (A3), Sabinator_36 (A3), SaturnRing_33 (A3), Scout_33 (A3), Serenity_34 (A2), Smeagan_36 (A2), SoYo_36 (A3), SoilDragon_35 (A3), Sparxx_33 (A4), Stagni_36 (A3), StepMih_36 (A3), TarsusIV_33 (A2), Tiffany_36 (A3), TipsytheTRex_33 (A2), TroyPia_33 (A4), Updawg_35 (A2), VA6_33 (A2), VC3_36 (A2), Vix_36 (A3), Watson_36 (A3), WeiHuaDA_38 (A2), WideWale_35 (A2), Wooldri_38 (A3), XianYue_35 (A2),

Start 154:

- Found in 6 of 939 (0.6%) of genes in pham
- Manual Annotations of this start: 3 of 798
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Adelaide_25 (EP), Bran_28 (EP), Stiles_27 (EP),

Start 156:

- Found in 20 of 939 (2.1%) of genes in pham
- Manual Annotations of this start: 17 of 798
- Called 95.0% of time when present
- Phage (with cluster) where this start called: BiancaTri92_35 (A2), Che9c_41 (I2), Colin_37 (A2), Dori_45 (AD), DudeLittle_33 (A2), FiringLine_34 (A2), Georgie2_35 (A2), JoshKayV_35 (A2), Kalpine_35 (A2), Mao1_43 (AD), Mask_46 (AD), Power_33

(A2), QueenBeesly_34 (A2), REQ2_38 (singleton), Sbash_40 (I2), Sejanus_42 (AD), SemperFi_35 (A2), ThulaThula_35 (P5), Zimmer_35 (A12),

Start 157:

- Found in 12 of 939 (1.3%) of genes in pham
- Manual Annotations of this start: 6 of 798
- Called 91.7% of time when present
- Phage (with cluster) where this start called: Adzzy_35 (A2), Caraxes_33 (A2), Che12_36 (A2), HarryHoudini_36 (A2), Koduck_33 (A2), L5_33 (A2), Odin_33 (A2), PFR1_26 (BX), PFR2_28 (BX), Superchunk_33 (A2), SwirlSquare_35 (A2),

Start 158:

- Found in 3 of 939 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 798
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Moosehead_35 (CZ6),

Start 159:

- Found in 63 of 939 (6.7%) of genes in pham
- Manual Annotations of this start: 52 of 798
- Called 87.3% of time when present
- Phage (with cluster) where this start called: Agueybana_38 (CZ1), AlumE_39 (CZ1), Angelique_39 (CY1), Antonio_39 (CZ1), Attis_34 (CZ2), Bialota_37 (CZ1), Bosnia_39 (CZ1), BoyNamedSue_39 (CZ1), Bradissa_36 (CY1), Bunnybear_33 (CZ), Clap_37 (CZ2), Confidence_37 (CY1), Ebert_39 (CZ2), EdnaMode_33 (CZ2), EnalisNailo_35 (CY1), Eudoria_39 (CZ1), Eviarto_39 (CZ1), GemG_37 (CZ2), Haley23_37 (CZ2), Hugley_36 (CZ1), Hyzer_43 (CZ1), Jablanski_39 (CY), Lamberg_33 (CZ2), Lilas_38 (CY1), LonelyBoi_38 (CY), LordFarquaad_35 (CZ2), Manasvini_39 (CZ1), Maridalia_39 (CZ1), Matteo_30 (CZ2), Mocha12_37 (CZ2), Morkie_33 (DH), Neobush_39 (CZ1), Nettuno_33 (CZ2), Nymphadora_39 (CZ1), OneDirection_30 (CZ6), Pepperoni_31 (CZ), PhorbessPhlower_33 (DH), Pickett_32 (CZ2), Polly_36 (CZ1), Posh_42 (CY), Pytheas_39 (CY), Savage_37 (CZ2), SoilAssassin_34 (CZ2), Sproutie_37 (CZ2), Suscepit_39 (CZ1), Tayonia_39 (CZ1), TimTam_39 (CZ1), Trumpet_39 (CZ1), TuertoX_37 (CZ2), WelcomeAyanna_38 (CZ1), Whiteclaw_37 (CZ2), Wrigley_43 (CY), Yeet412_34 (CZ2), Zameen_39 (CZ1), Zirinka_36 (CZ1),

Start 163:

- Found in 328 of 939 (34.9%) of genes in pham
- Manual Annotations of this start: 283 of 798
- Called 98.2% of time when present
- Phage (with cluster) where this start called: AbbyDaisy_36 (AY), ActinUp_41 (K1), AdaS_36 (AY), Adephagia_41 (K1), Adonis_41 (K1), Adora_37 (CZ4), Ageofdapage_43 (K1), Aikyam_37 (AY), Akhila_37 (F1), Alatato_29 (FB), Alexphander_45 (F1), AlishaPH_41 (K1), Amelie_36 (K1), Anaya_43 (K1), Anekin_37 (AY), Angelica_41 (K1), Annalisa_36 (CZ4), Apocalypse_44 (K1), Apricot_48 (DN3), ArV2_29 (singleton), Ardmore_36 (F1), Asapag_47 (DN1), Asayake_41 (K1), Atiba_41 (K1), Auxilium_38 (AY), BEEST_41 (K1), BENtherdunthat_50 (DN1), BGIlluviae_41 (K1), BaghaKamala_40 (K1), BarrelRoll_41 (K1), Batiatus_43 (F1), Bauer_39 (FN), Beakin_43 (F1), BeeGee_42 (CY), Beenie_33 (CZ4), Beezoo_43 (K1), Bella96_42 (K1), Belladonna_41 (K1), BenchScraper_39 (AY), Bhageatrice_40 (AY), BigPhil_38 (F1), Binglebops_36 (K1), BillyTP_42 (AY), Bipolar_39 (F1), Birdsong_47 (DN), BlackSpider_36 (FN), Blarby_54 (F), Blizzard_41 (K1), BlueShadow_40 (AY), BobaPhett_43 (F1), Bobi_46 (F1), Boiii_41 (K1),

BoostSeason_44 (K2), BotCity_51 (DN), BrayBeast_32 (FB), Bridgette_38 (FA), Brocalys_36 (F1), Brushbloom_50 (F1), Budski_49 (DN), Byougenkin_40 (F1), CREW_41 (K1), Capricorn_41 (K1), CaptainTrips_41 (F1), CaseJules_42 (K1), Cashline_38 (CY), Cerasum_38 (F1), CheeseTouch_54 (DN1), CheetoDust_40 (K1), Chris_43 (K1), ChuckDuck_39 (FA), Chymera_32 (singleton), Clark_39 (CZ4), Clifton_35 (F1), Clipper_45 (K1), Coco12_40 (F1), Constance_38 (FA), CookieBear_41 (AY), Cornucopia_45 (F1), Crater_49 (DN3), CrimD_41 (K1), DLane_41 (F1), DRBy19_43 (F1), Dalmuri_41 (K1), Dartin_43 (K1), DeadP_46 (F1), Deby_41 (K1), Denise_35 (CZ5), Devera_45 (K1), DismalFunk_43 (K2), DismalStressor_43 (K2), DoRead_44 (F1), DobbysSock_31 (CZ4), Dole_44 (K1), Dolores_40 (CZ4), Donkeykong_41 (F1), Dorito_34 (CZ4), DosHalletts_40 (F1), DrHayes_42 (K1), Durfee_41 (K1), EMsquaredA_37 (CY1), Ecliptus_49 (DN), Efra2_44 (K1), Eileen_34 (FA), EleanorGeorge_40 (F1), Emerson_42 (K1), Emma_44 (F1), Enby_42 (F1), Enkosi_39 (K1), Estave1_43 (F1), EvePickles_38 (AY), Faja_39 (AY), Filuzino_41 (F1), Findley_43 (K2), Flathead_44 (F1), Floral_36 (CY1), Footloose_31 (singleton), FosterFrank_40 (FA), Frickyeah_52 (DN1), Fruitloop_40 (F1), GMA1_30 (singleton), Galactic_43 (F1), Ganymede_42 (K1), Geraldini_43 (K1), Getalong_53 (DN1), Globfish_39 (AY), GlobiWarming_38 (FA), Gorge_43 (F1), Gorpy_41 (AY), Guanica15_44 (K1), Guppsters_43 (F1), Hades_43 (F1), HedwigODU_41 (K1), Hegedechwinu_41 (F1), Hillester_40 (AY), Hlubikazi_41 (F1), Holliday_48 (DN1), Homura_41 (K1), Hortense_40 (CZ4), Horus_48 (DN1), Howe_40 (CZ4), Hyperbowlee_41 (K1), IMpilo_40 (F1), Illumine_44 (K1), Inky_41 (K1), Invectra_40 (CZ4), IrishSherpFalk_41 (F1), Isolde_41 (AY), JAWS_41 (K1), James_43 (F1), Jarvi_41 (K1), Jayhawk_42 (K1), Jeckyll_41 (K1), Joy99_41 (K1), Judy_39 (FA), Juice456_44 (F1), Juniper1_40 (F1), Kamaru_44 (DN1), KayMoney_38 (FA), Kenna_49 (DN1), Kenuha5_39 (F1), KiSi_45 (K1), Kingsley_38 (F1), KristaRAM_43 (F1), LastJedi_34 (F1), LaterM_42 (K1), Lawnathon_40 (AY), LeMond_45 (K1), Leroy_50 (DN1), LilPharaoh_36 (K1), LilSpotty_38 (singleton), LindNT_41 (K1), LitninMcQueen_43 (DN1), Llorens_41 (K1), Lorde_42 (F1), Lton_34 (CZ), Lucky10_35 (DH), LunaBlu_46 (F1), LunaStella_42 (F4), Lunahalos_41 (K1), Lutum_50 (DN1), Malec_36 (A2), Mandlovu_40 (F1), Marcoliusprime_43 (K2), MarkPhew_44 (K1), Marshawn_44 (K6), Marteena_36 (CY1), MaterMagnus_40 (AY), Mattes_43 (F1), McMater_43 (K1), Mcklovin_36 (CZ4), MeaningOfLife_42 (K1), Megsy_42 (K1), Melissaren88_42 (F1), MichaelScott_40 (CZ4), MidnightRain_42 (AY), MilanaBonita_37 (F1), MilleniumForce_42 (F1), Milly_43 (K2), MinionDave_43 (F1), Minnie_43 (F1), MooMoo_41 (singleton), Moonbeam_41 (F1), Mova_42 (F1), Mozy_51 (F1), Ms6_36 (F1), Mufasa8_27 (FG), Mufasa_44 (K2), Murucutumbu_42 (K1), Mutaforma13_45 (F1), Mynx_42 (K1), Nibb_43 (K1), Nikao_39 (K1), Niklas_43 (K1), Nutello_36 (K1), ODay_52 (DN), Oregono_39 (CZ4), Oscar_45 (K1), Ovechkin_41 (F1), Padfoot_41 (K1), Padpat_42 (K1), Peanam_43 (K1), Peas_35 (FA), Peel_41 (K1), Periwinkle_57 (DN1), Persistence_35 (AY), Phabuloso_48 (DN1), Phalconet_41 (F1), Phanphagia_37 (F1), PhesterPhotato_44 (F1), Philus_43 (F1), Phistory_51 (DN1), Phrank15_39 (AY), Phrappuccino_38 (AA), Piatt_41 (K1), Pippy_38 (F1), Pokerus_40 (K1), Pollux_38 (CY1), Prithvi_42 (K1), QuincyRose_40 (K1), RadFad_40 (AY), Ramen_41 (K1), Raphaella_40 (AY), Rapunzel97_41 (K1), RavenCo17_41 (CZ8), Renaud18_46 (F4), Rialto_46 (F1), Richie_40 (AY), Richo_43 (K1), Rita_44 (F1), RootBeer_29 (FA), Rosmarinus_41 (K1), SG4_40 (F1), Saal_43 (F1), Sakai_40 (AY), Samman98_40 (CZ4), SamuelLPlaqson_42 (K1), Sarge_28 (FB), Sarma624_38 (F1), Sashimi_39 (AY), Scarlett_45 (K1), Seahorse_41 (AY), Sekhmet_40 (CZ4), Settecandela_38 (AA), SgtBeansprout_36 (K1), Shaobing_43 (K1), Shauna1_38 (F1), ShawBrad_51 (DN1), ShiaSurprise_42 (K1), Shlim410_38 (CZ4), Shoya_35 (FB), ShroomBoi_42 (F1), Shukran_42 (AY), SimranZ1_43 (F1), Slimphazie_41 (K1), Sonali_29 (FG), Soul22_46 (F2), Spartacus_41 (F1),

SpicyFrank_39 (AY), Spock_41 (K1), Squirty_35 (F3), StAnnes_42 (F1), Stinson_42 (K1), Strobilo_43 (K2), Strokeseat_41 (F1), Sulley_41 (K1), SuperGrey_42 (F1), SwagPiggett_45 (F1), TChen_44 (F4), TClif_45 (K6), Tachez_41 (K1), TaiwanKao_43 (K1), Taj_45 (F1), ThayneTheZag_40 (AY), Thimann_36 (CZ4), Tiff81_37 (AY), TiniBug_42 (K1), Tiri_42 (K1), Topper_41 (K1), TreyKay_42 (K1), TruffulaTree_41 (K1), Twinkle_39 (CZ4), Twitch_41 (K1), Urkel_42 (K1), VRedHorse_42 (F1), Validus_45 (K1), Veliki_41 (K1), Velveteen_37 (F1), Vopal_43 (AY), Wachhund_44 (F1), Wee_46 (F1), Whatsapiecost_41 (F1), WillSterrel_41 (F1), Windest_40 (AY), WinkNick_41 (CZ4), XFactor_41 (F1), YoungHarleezy_40 (AY), YoureAdopted_40 (K1), Yunkel11_44 (K1), Zavala_42 (K1), Zizzle_44 (F1), ZoeJ_43 (K2), Zucker_31 (FN),

Start 165:

- Found in 4 of 939 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 798
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Hum25_34 (FQ),

Start 166:

- Found in 2 of 939 (0.2%) of genes in pham
- Manual Annotations of this start: 2 of 798
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Farewell_44 (AF), Sparky_45 (AF),

Start 168:

- Found in 52 of 939 (5.5%) of genes in pham
- No Manual Annotations of this start.
- Called 1.9% of time when present
- Phage (with cluster) where this start called: Sunshine23_31 (FG),

Start 171:

- Found in 22 of 939 (2.3%) of genes in pham
- Manual Annotations of this start: 20 of 798
- Called 90.9% of time when present
- Phage (with cluster) where this start called: Amochick_29 (Q), Amymech_29 (Q), Daegal_30 (Q), DeepSoil15_29 (Q), Dewey_29 (Q), Ein37_29 (Q), Evanesce_29 (Q), Forge_29 (Q), Giles_29 (Q), Gravaillia_29 (Q), HH92_29 (Q), Hadrien_29 (Q), Hail_29 (Q), Kinbote_29 (Q), LilHazelNut_29 (Q), Luke_29 (Q), Luna22_29 (Q), Ubuntu_29 (Q), Webster2_29 (Q), Wishmaker_29 (Q),

Start 174:

- Found in 12 of 939 (1.3%) of genes in pham
- Manual Annotations of this start: 12 of 798
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Banquo_37 (CU1), Catfish_37 (CU5), DinoDaryn_38 (CU1), Goib_39 (CU1), Huffy_38 (CU1), Neville_8 (DU2), Rabbitrun_10 (DU2), Splinter_37 (CU1), TZGordon_39 (CU1), TinaLin_36 (CU1), Trax_8 (DU2), Vendetta_37 (CU1),

Start 177:

- Found in 1 of 939 (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: Raqqa_32 (AY),

Start 180:

- Found in 60 of 939 (6.4%) of genes in pham
- Manual Annotations of this start: 10 of 798
- Called 18.3% of time when present
- Phage (with cluster) where this start called: Farber_36 (A3), Fernando_36 (A3), GingkoMaracino_36 (A3), JenCasNa_36 (A3), Lilith_36 (A3), Malinsilva_38 (A3), Microwolf_36 (A3), Ollie_36 (A3), Snickers_36 (A3), Taurus_36 (A3), Zetzy_35 (A3),

Start 182:

- Found in 11 of 939 (1.2%) of genes in pham
- Manual Annotations of this start: 4 of 798
- Called 36.4% of time when present
- Phage (with cluster) where this start called: Kudrefre_6 (DU1), Octobien14_6 (DU1), Sephiroth_7 (DU1), Syleon_7 (DU1),

Start 188:

- Found in 68 of 939 (7.2%) of genes in pham
- Manual Annotations of this start: 14 of 798
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Acolyte_34 (A2), C3_31 (A2), Calvinny_36 (A3), Crucio_34 (A2), Drake55_36 (A2), Fameo_34 (A2), Flare16_34 (A2), Kerberos_37 (A2), Pomar16_37 (A2), Sknot_35 (A2), SnapTap_34 (A2), StarStuff_37 (A2), SweetiePie_34 (A2), Tomathan_37 (A2), Travvers_37 (A2), Trixie_35 (A2), Trooper_35 (A2),

Start 191:

- Found in 3 of 939 (0.3%) of genes in pham
- Manual Annotations of this start: 2 of 798
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GUPitcher_34 (FJ), Kukla_36 (FJ), TripleJ_37 (FJ),

Start 194:

- Found in 1 of 939 (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: DillyDally_29 (singleton),

Start 195:

- Found in 42 of 939 (4.5%) of genes in pham
- Manual Annotations of this start: 8 of 798
- Called 19.0% of time when present
- Phage (with cluster) where this start called: Cerulean_34 (A4), ChampagnePapi_34 (A4), Kamy_33 (A4), LHTSCC_34 (A4), LeoAvram_33 (A4), NothingSpecial_35 (A2), Obama12_34 (A4), SheldonCooper_34 (A4),

Start 205:

- Found in 88 of 939 (9.4%) of genes in pham
- No Manual Annotations of this start.
- Called 3.4% of time when present

- Phage (with cluster) where this start called: Giroux_33 (A3), Kachowdy_33 (A3), Marchesa_33 (A3),

Start 218:

- Found in 299 of 939 (31.8%) of genes in pham
- Manual Annotations of this start: 6 of 798
- Called 2.0% of time when present
- Phage (with cluster) where this start called: Bactobuster_35 (A2), EvilGenius_36 (A2), Heffalump_35 (A2), Medusa_33 (A4), NaSiaTalie_34 (A2), Ph8s_35 (A2),

Start 222:

- Found in 26 of 939 (2.8%) of genes in pham
- Manual Annotations of this start: 1 of 798
- Called 3.8% of time when present
- Phage (with cluster) where this start called: Spartoi_37 (singleton),

Start 254:

- Found in 47 of 939 (5.0%) of genes in pham
- Manual Annotations of this start: 1 of 798
- Called 2.1% of time when present
- Phage (with cluster) where this start called: QuinnAvery_38 (FF),

Start 268:

- Found in 6 of 939 (0.6%) of genes in pham
- No Manual Annotations of this start.
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Maruru_31 (FG),

Start 275:

- Found in 83 of 939 (8.8%) of genes in pham
- Manual Annotations of this start: 15 of 798
- Called 19.3% of time when present
- Phage (with cluster) where this start called: Adora_34 (CZ4), Annalisa_34 (CZ4), BBQValindra_35 (DB), Bunnybear_32 (CZ), Clark_36 (CZ4), DobbysSock_30 (CZ4), Dorito_32 (CZ4), EnalisNailo_34 (CY1), Floral_35 (CY1), Jablanski_34 (CY), Lilas_37 (CY1), Melba_35 (CV), Pipp_33 (CV), Pytheas_34 (CY), Spooky_35 (DN2), Squiddly_37 (DN2),

Start 279:

- Found in 112 of 939 (11.9%) of genes in pham
- Manual Annotations of this start: 58 of 798
- Called 78.6% of time when present
- Phage (with cluster) where this start called: Aikyam_33 (AY), AllBusiness_33 (FF), Anekin_34 (AY), ArchiDore_38 (DW), Auxilium_34 (AY), Bakery_42 (DC1), Ball_25 (singleton), Bauer_32 (FN), Beenie_30 (CZ4), BenchScraper_36 (AY), BillyTP_37 (AY), BlackSpider_31 (FN), BlingBling_33 (CV), BlueShadow_37 (AY), Bowser_37 (DB), Bradissa_35 (CY1), Bridgette_34 (FA), Bunker_34 (DB), ChuckDuck_35 (FA), Cole_34 (FF), Confidence_36 (CY1), Constance_34 (FA), CookieBear_37 (AY), Culver_60 (CQ1), Dmitri_36 (DB), Dolores_37 (CZ4), EMsquaredA_36 (CY1), FosterFrank_36 (FA), Globfish_36 (AY), GlobiWarming_35 (FA), Gorpy_37 (AY), Gusanita_34 (FF), Halloween_34 (FF), Hestia_36 (AY), Hillester_36 (AY), Hortense_36 (CZ4), HotPotato_34 (FA), Howe_36 (CZ4), Ichiang_34 (FF), Invectra_37 (CZ4), IsHungry_32 (FF), Isolde_36 (AY), Judy_35 (FA), Julie_35 (FF),

Karkharias_34 (FA), KayMoney_35 (FA), Kihatsu_37 (FF), Kiko_37 (DB), Lawnathon_36 (AY), Lenoxika_36 (FF), LonelyBoi_37 (CY), Maja_28 (FO), Malibo_38 (DW), Marteena_35 (CY1), MaterMagnus_36 (AY), Mcklovin_34 (CZ4), MichaelScott_36 (CZ4), MidnightRain_38 (AY), Mutzi_37 (DC1), Nandita_36 (FF), Oregano_37 (CZ4), PeggyLeg03_34 (FA), PhriskyACE_35 (CZ4), Pollux_37 (CY1), Popper_34 (FF), Pucara_31 (FA), RadFad_36 (AY), Raphaella_36 (AY), Richie_36 (AY), Ryan_36 (FF), Sakai_36 (AY), Samman98_36 (CZ4), Sashimi_35 (AY), Seahorse_38 (AY), Shlim410_35 (CZ4), Shukran_39 (AY), SpicyFrank_36 (AY), ThayneTheZag_36 (AY), Thimann_34 (CZ4), Tiff81_34 (AY), Twinkle_35 (CZ4), Utz_31 (CV), Vopal_39 (AY), WinkNick_38 (CZ4), YoungHarleezy_36 (AY), YungMoney_41 (DC1), Zaheer_36 (FF), Zucker_29 (FN),

Start 298:

- Found in 19 of 939 (2.0%) of genes in pham
- Manual Annotations of this start: 1 of 798
- Called 10.5% of time when present
- Phage (with cluster) where this start called: Moonflower_36 (DB), Sixama_89 (DS),

Summary by clusters:

There are 73 clusters represented in this pham: DN, AA, singleton, FS, BA, DH, FQ, CZ2, CZ3, P3, CZ1, DB, CY1, CZ4, CZ5, BT, FA, K1, DZ, K6, FF, FG, DW, FJ, BX, DS, FN, FO, CU5, CU4, CU2, CU1, A12, DI, A19, EO, CV, CZ8, A3, A2, DN1, A4, DN3, DN2, A9, DU1, DU2, P5, AS3, AS2, AS1, AD, F, CZ6, J, CZ7, Q, CZ, CY, AY, X, AF, EP, DC1, F1, F2, F3, F4, CQ1, K2, P2, FB, I2,

Info for manual annotations of cluster A12:

- Start number 138 was manually annotated 1 time for cluster A12.
- Start number 156 was manually annotated 1 time for cluster A12.

Info for manual annotations of cluster A19:

- Start number 152 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A2:

- Start number 103 was manually annotated 1 time for cluster A2.
- Start number 123 was manually annotated 7 times for cluster A2.
- Start number 138 was manually annotated 5 times for cluster A2.
- Start number 139 was manually annotated 1 time for cluster A2.
- Start number 140 was manually annotated 2 times for cluster A2.
- Start number 152 was manually annotated 34 times for cluster A2.
- Start number 156 was manually annotated 9 times for cluster A2.
- Start number 157 was manually annotated 6 times for cluster A2.
- Start number 163 was manually annotated 1 time for cluster A2.
- Start number 188 was manually annotated 14 times for cluster A2.
- Start number 195 was manually annotated 1 time for cluster A2.
- Start number 218 was manually annotated 5 times for cluster A2.

Info for manual annotations of cluster A3:

- Start number 118 was manually annotated 1 time for cluster A3.
- Start number 133 was manually annotated 2 times for cluster A3.
- Start number 140 was manually annotated 1 time for cluster A3.
- Start number 152 was manually annotated 71 times for cluster A3.
- Start number 180 was manually annotated 10 times for cluster A3.

Info for manual annotations of cluster A4:

- Start number 116 was manually annotated 3 times for cluster A4.
- Start number 152 was manually annotated 13 times for cluster A4.
- Start number 195 was manually annotated 7 times for cluster A4.
- Start number 218 was manually annotated 1 time for cluster A4.

Info for manual annotations of cluster A9:

- Start number 138 was manually annotated 1 time for cluster A9.

Info for manual annotations of cluster AA:

- Start number 163 was manually annotated 2 times for cluster AA.

Info for manual annotations of cluster AD:

- Start number 156 was manually annotated 4 times for cluster AD.

Info for manual annotations of cluster AF:

- Start number 166 was manually annotated 2 times for cluster AF.

Info for manual annotations of cluster AS1:

- Start number 147 was manually annotated 11 times for cluster AS1.

Info for manual annotations of cluster AS2:

- Start number 147 was manually annotated 11 times for cluster AS2.

Info for manual annotations of cluster AS3:

- Start number 147 was manually annotated 7 times for cluster AS3.

Info for manual annotations of cluster AY:

- Start number 110 was manually annotated 1 time for cluster AY.
- Start number 163 was manually annotated 17 times for cluster AY.
- Start number 279 was manually annotated 13 times for cluster AY.

Info for manual annotations of cluster BT:

- Start number 126 was manually annotated 1 time for cluster BT.

Info for manual annotations of cluster CQ1:

- Start number 279 was manually annotated 1 time for cluster CQ1.

Info for manual annotations of cluster CU1:

- Start number 174 was manually annotated 8 times for cluster CU1.

Info for manual annotations of cluster CU4:

- Start number 141 was manually annotated 1 time for cluster CU4.

Info for manual annotations of cluster CU5:

- Start number 174 was manually annotated 1 time for cluster CU5.

Info for manual annotations of cluster CV:

- Start number 275 was manually annotated 2 times for cluster CV.

- Start number 279 was manually annotated 2 times for cluster CV.

Info for manual annotations of cluster CY:

- Start number 159 was manually annotated 5 times for cluster CY.
- Start number 163 was manually annotated 2 times for cluster CY.
- Start number 275 was manually annotated 2 times for cluster CY.
- Start number 279 was manually annotated 1 time for cluster CY.

Info for manual annotations of cluster CY1:

- Start number 159 was manually annotated 5 times for cluster CY1.
- Start number 163 was manually annotated 4 times for cluster CY1.
- Start number 275 was manually annotated 3 times for cluster CY1.
- Start number 279 was manually annotated 5 times for cluster CY1.

Info for manual annotations of cluster CZ:

- Start number 147 was manually annotated 1 time for cluster CZ.
- Start number 159 was manually annotated 1 time for cluster CZ.
- Start number 163 was manually annotated 1 time for cluster CZ.
- Start number 275 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ1:

- Start number 86 was manually annotated 4 times for cluster CZ1.
- Start number 147 was manually annotated 1 time for cluster CZ1.
- Start number 159 was manually annotated 20 times for cluster CZ1.

Info for manual annotations of cluster CZ2:

- Start number 83 was manually annotated 2 times for cluster CZ2.
- Start number 86 was manually annotated 2 times for cluster CZ2.
- Start number 147 was manually annotated 1 time for cluster CZ2.
- Start number 159 was manually annotated 18 times for cluster CZ2.

Info for manual annotations of cluster CZ3:

- Start number 147 was manually annotated 3 times for cluster CZ3.

Info for manual annotations of cluster CZ4:

- Start number 147 was manually annotated 3 times for cluster CZ4.
- Start number 163 was manually annotated 17 times for cluster CZ4.
- Start number 275 was manually annotated 4 times for cluster CZ4.
- Start number 279 was manually annotated 12 times for cluster CZ4.

Info for manual annotations of cluster CZ5:

- Start number 163 was manually annotated 1 time for cluster CZ5.

Info for manual annotations of cluster CZ6:

- Start number 105 was manually annotated 1 time for cluster CZ6.
- Start number 158 was manually annotated 1 time for cluster CZ6.
- Start number 159 was manually annotated 1 time for cluster CZ6.

Info for manual annotations of cluster CZ7:

- Start number 147 was manually annotated 1 time for cluster CZ7.

Info for manual annotations of cluster CZ8:

- Start number 163 was manually annotated 1 time for cluster CZ8.

Info for manual annotations of cluster DB:

- Start number 275 was manually annotated 1 time for cluster DB.
- Start number 279 was manually annotated 4 times for cluster DB.

Info for manual annotations of cluster DC1:

- Start number 279 was manually annotated 3 times for cluster DC1.

Info for manual annotations of cluster DH:

- Start number 159 was manually annotated 2 times for cluster DH.
- Start number 163 was manually annotated 1 time for cluster DH.

Info for manual annotations of cluster DI:

- Start number 147 was manually annotated 15 times for cluster DI.

Info for manual annotations of cluster DN:

- Start number 163 was manually annotated 4 times for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 163 was manually annotated 14 times for cluster DN1.

Info for manual annotations of cluster DN2:

- Start number 275 was manually annotated 2 times for cluster DN2.

Info for manual annotations of cluster DN3:

- Start number 163 was manually annotated 2 times for cluster DN3.

Info for manual annotations of cluster DS:

- Start number 298 was manually annotated 1 time for cluster DS.

Info for manual annotations of cluster DU1:

- Start number 182 was manually annotated 4 times for cluster DU1.

Info for manual annotations of cluster DU2:

- Start number 174 was manually annotated 3 times for cluster DU2.

Info for manual annotations of cluster DW:

- Start number 147 was manually annotated 3 times for cluster DW.
- Start number 279 was manually annotated 1 time for cluster DW.

Info for manual annotations of cluster DZ:

- Start number 147 was manually annotated 4 times for cluster DZ.

Info for manual annotations of cluster EO:

- Start number 142 was manually annotated 4 times for cluster EO.

Info for manual annotations of cluster EP:

- Start number 89 was manually annotated 3 times for cluster EP.
- Start number 151 was manually annotated 1 time for cluster EP.
- Start number 154 was manually annotated 3 times for cluster EP.

Info for manual annotations of cluster F1:

- Start number 163 was manually annotated 82 times for cluster F1.

Info for manual annotations of cluster F2:

- Start number 163 was manually annotated 1 time for cluster F2.

Info for manual annotations of cluster F3:

- Start number 163 was manually annotated 1 time for cluster F3.

Info for manual annotations of cluster F4:

- Start number 163 was manually annotated 3 times for cluster F4.

Info for manual annotations of cluster FA:

- Start number 163 was manually annotated 8 times for cluster FA.
- Start number 279 was manually annotated 7 times for cluster FA.

Info for manual annotations of cluster FB:

- Start number 103 was manually annotated 2 times for cluster FB.
- Start number 163 was manually annotated 3 times for cluster FB.

Info for manual annotations of cluster FF:

- Start number 254 was manually annotated 1 time for cluster FF.
- Start number 279 was manually annotated 6 times for cluster FF.

Info for manual annotations of cluster FG:

- Start number 163 was manually annotated 2 times for cluster FG.

Info for manual annotations of cluster FJ:

- Start number 191 was manually annotated 2 times for cluster FJ.

Info for manual annotations of cluster FN:

- Start number 163 was manually annotated 2 times for cluster FN.
- Start number 279 was manually annotated 2 times for cluster FN.

Info for manual annotations of cluster FO:

- Start number 279 was manually annotated 1 time for cluster FO.

Info for manual annotations of cluster FQ:

- Start number 146 was manually annotated 1 time for cluster FQ.
- Start number 165 was manually annotated 1 time for cluster FQ.

Info for manual annotations of cluster I2:

- Start number 156 was manually annotated 2 times for cluster I2.

Info for manual annotations of cluster J:

- Start number 65 was manually annotated 1 time for cluster J.
- Start number 69 was manually annotated 8 times for cluster J.
- Start number 85 was manually annotated 29 times for cluster J.
- Start number 91 was manually annotated 1 time for cluster J.
- Start number 112 was manually annotated 1 time for cluster J.

Info for manual annotations of cluster K1:

- Start number 32 was manually annotated 1 time for cluster K1.

- Start number 163 was manually annotated 99 times for cluster K1.

Info for manual annotations of cluster K2:

- Start number 163 was manually annotated 9 times for cluster K2.

Info for manual annotations of cluster K6:

- Start number 163 was manually annotated 2 times for cluster K6.

Info for manual annotations of cluster P2:

- Start number 147 was manually annotated 1 time for cluster P2.

Info for manual annotations of cluster P3:

- Start number 147 was manually annotated 1 time for cluster P3.

Info for manual annotations of cluster P5:

- Start number 156 was manually annotated 1 time for cluster P5.

Info for manual annotations of cluster Q:

- Start number 145 was manually annotated 2 times for cluster Q.
- Start number 171 was manually annotated 20 times for cluster Q.

Info for manual annotations of cluster X:

- Start number 69 was manually annotated 2 times for cluster X.

Gene Information:

Gene: ACFishhook_35 Start: 26718, Stop: 25579, Start Num: 152

Candidate Starts for ACFishhook_35:

(Start: 103 @26781 has 3 MA's), (Start: 152 @26718 has 119 MA's), (Start: 188 @26664 has 14 MA's), (Start: 218 @26595 has 6 MA's), (346, 26376), (350, 26367), (393, 26331), (424, 26274), (464, 26196), (477, 26172), (486, 26163), (540, 26061), (551, 26043), (559, 26031), (609, 25956), (613, 25950), (622, 25929), (629, 25914), (639, 25896), (655, 25872), (730, 25713), (731, 25710), (738, 25680), (740, 25674), (743, 25662), (761, 25623),

Gene: AN3_33 Start: 26414, Stop: 25290, Start Num: 152

Candidate Starts for AN3_33:

(Start: 110 @26468 has 1 MA's), (Start: 152 @26414 has 119 MA's), (Start: 188 @26360 has 14 MA's), (Start: 218 @26291 has 6 MA's), (337, 26090), (350, 26063), (393, 26027), (423, 25973), (424, 25970), (438, 25943), (464, 25892), (486, 25859), (491, 25847), (503, 25829), (540, 25757), (551, 25739), (559, 25727), (592, 25688), (609, 25652), (613, 25646), (622, 25625), (629, 25610), (639, 25592), (657, 25565), (718, 25454), (731, 25406), (732, 25403), (738, 25376), (740, 25370), (743, 25358), (761, 25319),

Gene: AN9_36 Start: 26399, Stop: 25275, Start Num: 152

Candidate Starts for AN9_36:

(Start: 110 @26453 has 1 MA's), (Start: 152 @26399 has 119 MA's), (Start: 188 @26345 has 14 MA's), (Start: 218 @26276 has 6 MA's), (337, 26075), (350, 26048), (393, 26012), (423, 25958), (424, 25955), (438, 25928), (464, 25877), (486, 25844), (491, 25832), (503, 25814), (540, 25742), (551, 25724), (559, 25712), (592, 25673), (609, 25637), (613, 25631), (622, 25610), (629, 25595), (639, 25577), (657, 25550), (718, 25439), (731, 25391), (732, 25388), (738, 25361), (740, 25355), (743, 25343), (761, 25304),

Gene: ANI8_36 Start: 26399, Stop: 25275, Start Num: 152

Candidate Starts for ANI8_36:

(Start: 110 @26453 has 1 MA's), (Start: 152 @26399 has 119 MA's), (Start: 188 @26345 has 14 MA's), (Start: 218 @26276 has 6 MA's), (337, 26075), (350, 26048), (393, 26012), (423, 25958), (424, 25955), (438, 25928), (464, 25877), (486, 25844), (491, 25832), (503, 25814), (540, 25742), (551, 25724), (559, 25712), (592, 25673), (609, 25637), (613, 25631), (622, 25610), (629, 25595), (639, 25577), (657, 25550), (718, 25439), (731, 25391), (732, 25388), (738, 25361), (740, 25355), (743, 25343), (761, 25304),

Gene: AbbyDaisy_36 Start: 27417, Stop: 26233, Start Num: 163

Candidate Starts for AbbyDaisy_36:

(38, 27699), (40, 27690), (46, 27654), (64, 27579), (88, 27522), (107, 27483), (Start: 163 @27417 has 283 MA's), (190, 27366), (289, 27198), (299, 27180), (388, 27048), (424, 26970), (433, 26952), (447, 26919), (465, 26883), (470, 26874), (506, 26814), (546, 26739), (620, 26619), (682, 26505), (717, 26448), (722, 26427), (723, 26424), (726, 26409), (768, 26289),

Gene: AbbyPaige_35 Start: 26720, Stop: 25575, Start Num: 123

Candidate Starts for AbbyPaige_35:

(Start: 123 @26720 has 7 MA's), (Start: 138 @26702 has 7 MA's), (Start: 195 @26618 has 8 MA's), (Start: 218 @26570 has 6 MA's), (243, 26525), (350, 26342), (393, 26306), (424, 26249), (429, 26237), (486, 26138), (491, 26126), (503, 26108), (551, 26018), (559, 26006), (609, 25931), (613, 25925), (622, 25904), (629, 25889), (639, 25871), (657, 25844), (718, 25733), (731, 25685), (732, 25682), (738, 25655), (740, 25649), (743, 25637), (761, 25598),

Gene: Abdiel_32 Start: 26295, Stop: 25129, Start Num: 116

Candidate Starts for Abdiel_32:

(Start: 116 @26295 has 3 MA's), (135, 26268), (Start: 152 @26250 has 119 MA's), (Start: 195 @26181 has 8 MA's), (Start: 218 @26127 has 6 MA's), (346, 25908), (350, 25899), (393, 25863), (418, 25821), (423, 25809), (424, 25806), (464, 25728), (540, 25593), (551, 25575), (609, 25488), (613, 25482), (622, 25461), (629, 25446), (639, 25428), (718, 25290), (731, 25242), (738, 25212), (740, 25206), (743, 25194), (761, 25155),

Gene: Abidatro_34 Start: 24278, Stop: 23067, Start Num: 147

Candidate Starts for Abidatro_34:

(Start: 147 @24278 has 63 MA's), (263, 24059), (Start: 275 @24041 has 15 MA's), (341, 23924), (379, 23849), (390, 23834), (555, 23540), (570, 23519), (587, 23492), (620, 23426), (624, 23414), (633, 23396), (719, 23252), (722, 23243),

Gene: Acolyte_34 Start: 27024, Stop: 25957, Start Num: 188

Candidate Starts for Acolyte_34:

(Start: 152 @27078 has 119 MA's), (Start: 188 @27024 has 14 MA's), (Start: 218 @26955 has 6 MA's), (350, 26727), (393, 26691), (424, 26634), (438, 26607), (464, 26556), (503, 26493), (551, 26403), (559, 26391), (582, 26370), (609, 26316), (613, 26310), (622, 26289), (629, 26274), (657, 26229), (718, 26118), (731, 26070), (738, 26040), (740, 26034), (743, 26022), (761, 25983),

Gene: ActinUp_41 Start: 32479, Stop: 33567, Start Num: 163

Candidate Starts for ActinUp_41:

(Start: 163 @32479 has 283 MA's), (190, 32530), (Start: 218 @32581 has 6 MA's), (231, 32605), (253, 32641), (337, 32779), (371, 32833), (429, 32917), (465, 32986), (466, 32989), (556, 33139), (603, 33217), (618, 33244), (675, 33331), (715, 33379),

Gene: AdaS_36 Start: 25676, Stop: 24537, Start Num: 163

Candidate Starts for AdaS_36:

(Start: 163 @25676 has 283 MA's), (190, 25625), (289, 25457), (299, 25439), (388, 25307), (424, 25229), (429, 25217), (465, 25142), (470, 25133), (506, 25073), (557, 24983), (620, 24878), (630, 24857), (645, 24830), (717, 24707), (723, 24683), (726, 24668), (746, 24593), (761, 24563),

Gene: Adelaide_25 Start: 24090, Stop: 22960, Start Num: 154

Candidate Starts for Adelaide_25:

(Start: 154 @24090 has 3 MA's), (169, 24075), (187, 24051), (247, 23937), (271, 23898), (294, 23856), (308, 23823), (313, 23814), (330, 23787), (342, 23769), (391, 23685), (399, 23670), (415, 23625), (451, 23565), (492, 23523), (498, 23511), (502, 23505), (516, 23484), (548, 23430), (550, 23427), (553, 23424), (567, 23403), (615, 23319), (620, 23313), (628, 23295), (645, 23265), (687, 23208), (718, 23166), (723, 23151), (726, 23136), (727, 23130), (730, 23121), (733, 23112), (740, 23082), (756, 23040), (767, 23019), (769, 23016), (773, 23007), (789, 22980), (793, 22965),

Gene: Adephagia_41 Start: 32476, Stop: 33564, Start Num: 163

Candidate Starts for Adephagia_41:

(Start: 163 @32476 has 283 MA's), (190, 32527), (Start: 218 @32578 has 6 MA's), (231, 32602), (253, 32638), (337, 32776), (371, 32830), (429, 32914), (465, 32983), (466, 32986), (556, 33136), (603, 33214), (618, 33241), (675, 33328), (715, 33376),

Gene: Adonis_41 Start: 32777, Stop: 33865, Start Num: 163

Candidate Starts for Adonis_41:

(Start: 163 @32777 has 283 MA's), (Start: 218 @32879 has 6 MA's), (231, 32903), (253, 32939), (319, 33053), (371, 33131), (429, 33215), (465, 33284), (466, 33287), (556, 33437), (618, 33542), (675, 33629), (715, 33677),

Gene: Adora_37 Start: 31194, Stop: 32321, Start Num: 163

Candidate Starts for Adora_37:

(129, 31155), (Start: 163 @31194 has 283 MA's), (190, 31248), (250, 31371), (276, 31404), (321, 31494), (343, 31527), (465, 31722), (466, 31725), (491, 31767), (513, 31803), (700, 32100), (723, 32178), (729, 32205), (734, 32220), (740, 32247), (766, 32310),

Gene: Adora_34 Start: 29404, Stop: 30327, Start Num: 275

Candidate Starts for Adora_34:

(Start: 275 @29404 has 15 MA's), (Start: 279 @29410 has 58 MA's), (393, 29599), (396, 29605), (438, 29707), (448, 29731), (491, 29791), (533, 29848), (535, 29854), (537, 29860), (612, 29974), (615, 29980), (621, 29992), (662, 30067), (675, 30091), (676, 30094), (711, 30130), (714, 30136), (721, 30169), (730, 30205), (742, 30250),

Gene: Adzzy_35 Start: 25141, Stop: 24026, Start Num: 157

Candidate Starts for Adzzy_35:

(Start: 157 @25141 has 6 MA's), (Start: 218 @25024 has 6 MA's), (243, 24979), (350, 24796), (393, 24760), (418, 24718), (423, 24706), (424, 24703), (436, 24679), (540, 24490), (551, 24472), (559, 24460), (582, 24439), (609, 24385), (622, 24358), (629, 24343), (639, 24325), (657, 24298), (731, 24139), (738, 24109), (740, 24103), (743, 24091), (761, 24052), (764, 24043),

Gene: Agape74_35 Start: 26696, Stop: 25551, Start Num: 123

Candidate Starts for Agape74_35:

(Start: 123 @26696 has 7 MA's), (Start: 138 @26678 has 7 MA's), (Start: 195 @26594 has 8 MA's), (Start: 218 @26546 has 6 MA's), (243, 26501), (350, 26318), (393, 26282), (424, 26225), (429, 26213), (486, 26114), (491, 26102), (503, 26084), (551, 25994), (559, 25982), (609, 25907), (613, 25901), (622, 25880), (629, 25865), (639, 25847), (657, 25820), (718, 25709), (731, 25661), (732, 25658), (738, 25631), (740, 25625), (743, 25613), (761, 25574),

Gene: Ageofdapage_43 Start: 33453, Stop: 34541, Start Num: 163

Candidate Starts for Ageofdapage_43:

(Start: 163 @33453 has 283 MA's), (Start: 218 @33555 has 6 MA's), (231, 33579), (253, 33615), (289, 33666), (319, 33729), (337, 33753), (371, 33807), (378, 33810), (429, 33891), (465, 33960), (466, 33963), (486, 33993), (556, 34113), (603, 34191), (618, 34218), (715, 34353),

Gene: Aglet_36 Start: 26791, Stop: 25646, Start Num: 152

Candidate Starts for Aglet_36:

(Start: 152 @26791 has 119 MA's), (Start: 180 @26752 has 10 MA's), (Start: 218 @26668 has 6 MA's), (243, 26623), (337, 26467), (350, 26440), (393, 26404), (424, 26347), (464, 26269), (477, 26245), (503, 26206), (540, 26134), (546, 26122), (551, 26116), (559, 26104), (609, 26029), (613, 26023), (622, 26002), (629, 25987), (639, 25969), (655, 25945), (718, 25831), (730, 25786), (731, 25783), (734, 25774), (738, 25753), (740, 25747), (743, 25735), (761, 25696),

Gene: Agueybana_38 Start: 30381, Stop: 31463, Start Num: 159

Candidate Starts for Agueybana_38:

(Start: 86 @30270 has 6 MA's), (Start: 159 @30381 has 52 MA's), (190, 30435), (261, 30555), (423, 30810), (438, 30840), (466, 30900), (506, 30966), (519, 30990), (723, 31320), (766, 31452),

Gene: Aikyam_37 Start: 25607, Stop: 24468, Start Num: 163

Candidate Starts for Aikyam_37:

(Start: 163 @25607 has 283 MA's), (190, 25556), (289, 25388), (299, 25370), (388, 25238), (424, 25160), (429, 25148), (433, 25142), (465, 25073), (470, 25064), (506, 25004), (557, 24914), (620, 24809), (630, 24788), (645, 24761), (717, 24638), (723, 24614), (726, 24599), (746, 24524), (761, 24494),

Gene: Aikyam_33 Start: 22410, Stop: 23327, Start Num: 279

Candidate Starts for Aikyam_33:

(208, 22281), (211, 22287), (Start: 279 @22410 has 58 MA's), (365, 22566), (380, 22581), (387, 22593), (451, 22740), (464, 22749), (490, 22788), (521, 22833), (535, 22857), (537, 22863), (558, 22896), (595, 22938), (599, 22947), (618, 22989), (662, 23073), (726, 23193), (730, 23208),

Gene: Akhila_37 Start: 29110, Stop: 30237, Start Num: 163

Candidate Starts for Akhila_37:

(Start: 91 @29008 has 1 MA's), (Start: 123 @29065 has 7 MA's), (Start: 163 @29110 has 283 MA's), (168, 29119), (253, 29281), (281, 29332), (289, 29350), (310, 29395), (371, 29491), (382, 29500), (438, 29605), (468, 29674), (491, 29713), (504, 29734), (512, 29746), (513, 29749), (519, 29761), (539, 29800), (543, 29806), (560, 29827), (590, 29863), (592, 29866), (609, 29902), (613, 29908), (618, 29920), (620, 29923), (625, 29938), (675, 30007), (682, 30022), (708, 30040), (717, 30064), (727, 30109), (730, 30118), (734, 30130), (740, 30157), (745, 30175), (755, 30196), (762, 30211), (766, 30220), (768, 30223),

Gene: Alatato_29 Start: 23820, Stop: 22690, Start Num: 163

Candidate Starts for Alatato_29:

(43, 24084), (Start: 163 @23820 has 283 MA's), (190, 23769), (192, 23766), (289, 23604), (319, 23541), (346, 23496), (355, 23475), (436, 23337), (438, 23334), (447, 23310), (457, 23295), (481, 23250), (575, 23091), (607, 23037), (630, 22995), (643, 22968), (675, 22914), (682, 22899), (692, 22890), (726, 22806), (727, 22800), (730, 22791), (742, 22746),

Gene: Aleemily_34 Start: 29847, Stop: 28720, Start Num: 147

Candidate Starts for Aleemily_34:

(13, 30327), (Start: 147 @29847 has 63 MA's), (Start: 182 @29793 has 4 MA's), (Start: 222 @29688 has 1 MA's), (322, 29517), (372, 29427), (396, 29391), (443, 29277), (496, 29238), (512, 29214), (573, 29118), (643, 28986), (666, 28941), (719, 28869), (761, 28743),

Gene: Alexphander_45 Start: 32418, Stop: 33536, Start Num: 163

Candidate Starts for Alexphander_45:

(Start: 163 @32418 has 283 MA's), (232, 32556), (253, 32589), (284, 32637), (371, 32790), (382, 32799), (424, 32880), (468, 32973), (491, 33012), (504, 33033), (512, 33045), (513, 33048), (519, 33060), (539, 33099), (543, 33105), (560, 33126), (590, 33162), (592, 33165), (609, 33201), (613, 33207), (620, 33222), (625, 33237), (675, 33306), (682, 33321), (708, 33339), (727, 33408), (730, 33417), (740, 33456), (745, 33474), (755, 33495), (762, 33510), (766, 33519), (768, 33522),

Gene: AlishaPH_41 Start: 32751, Stop: 33839, Start Num: 163

Candidate Starts for AlishaPH_41:

(Start: 163 @32751 has 283 MA's), (Start: 218 @32853 has 6 MA's), (231, 32877), (253, 32913), (337, 33051), (371, 33105), (429, 33189), (465, 33258), (466, 33261), (556, 33411), (618, 33516), (675, 33603), (715, 33651), (757, 33795),

Gene: AllBusiness_33 Start: 27251, Stop: 28171, Start Num: 279

Candidate Starts for AllBusiness_33:

(Start: 254 @27209 has 1 MA's), (Start: 279 @27251 has 58 MA's), (292, 27275), (342, 27365), (365, 27407), (380, 27425), (387, 27437), (410, 27494), (451, 27584), (490, 27632), (521, 27677), (535, 27701), (537, 27707), (558, 27740), (595, 27782), (618, 27833), (662, 27917), (720, 28013), (726, 28037), (732, 28058), (762, 28142),

Gene: Altostratus_43 Start: 28384, Stop: 27227, Start Num: 146

Candidate Starts for Altostratus_43:

(Start: 146 @28384 has 1 MA's), (178, 28333), (189, 28309), (206, 28264), (242, 28189), (Start: 279 @28126 has 58 MA's), (282, 28117), (346, 28012), (370, 27961), (379, 27949), (387, 27937), (393, 27928), (403, 27907), (429, 27838), (432, 27832), (435, 27823), (501, 27748), (525, 27706), (558, 27649), (573, 27637), (584, 27622), (611, 27568), (622, 27544), (630, 27526), (643, 27505), (658, 27481), (675, 27451), (714, 27400), (719, 27373), (729, 27337), (761, 27247),

Gene: AlumE_39 Start: 31289, Stop: 32371, Start Num: 159

Candidate Starts for AlumE_39:

(Start: 86 @31178 has 6 MA's), (Start: 159 @31289 has 52 MA's), (190, 31343), (261, 31463), (438, 31748), (466, 31808), (506, 31874), (519, 31898), (723, 32228), (742, 32303), (766, 32360),

Gene: Amelia_36 Start: 24019, Stop: 22832, Start Num: 147

Candidate Starts for Amelia_36:

(87, 24109), (Start: 147 @24019 has 63 MA's), (341, 23665), (379, 23590), (624, 23155), (714, 23020),

Gene: Amelie_36 Start: 31976, Stop: 33070, Start Num: 163

Candidate Starts for Amelie_36:

(30, 31625), (Start: 32 @31640 has 1 MA's), (45, 31733), (51, 31754), (82, 31847), (Start: 163 @31976 has 283 MA's), (190, 32027), (231, 32102), (253, 32138), (310, 32234), (319, 32252), (337, 32276), (367, 32324), (371, 32330), (452, 32462), (465, 32495), (491, 32540), (556, 32648), (618, 32753), (659, 32813), (715, 32888), (742, 32996), (757, 33032),

Gene: AmiCi24_35 Start: 23912, Stop: 22719, Start Num: 147

Candidate Starts for AmiCi24_35:

(Start: 147 @23912 has 63 MA's), (379, 23483), (408, 23426), (417, 23402), (555, 23174), (624, 23048), (630, 23036), (640, 23015), (722, 22877), (743, 22796), (766, 22748),

Gene: Amochick_29 Start: 26484, Stop: 25291, Start Num: 171

Candidate Starts for Amochick_29:

(Start: 145 @26526 has 2 MA's), (Start: 171 @26484 has 20 MA's), (205, 26418), (244, 26337), (263, 26298), (274, 26283), (277, 26277), (282, 26265), (297, 26238), (314, 26205), (350, 26148), (362, 26115), (364, 26112), (396, 26064), (410, 26022), (411, 26019), (422, 25995), (431, 25980), (441, 25956), (449, 25941), (476, 25902), (487, 25890), (507, 25851), (530, 25812), (558, 25764), (560, 25761), (609, 25689), (613, 25683), (618, 25671), (620, 25668), (622, 25662), (649, 25608), (658, 25590), (660, 25587), (677, 25560), (691, 25533), (715, 25491), (721, 25464), (723, 25458), (736, 25401), (764, 25338), (766, 25335),

Gene: Amymech_29 Start: 26478, Stop: 25285, Start Num: 171

Candidate Starts for Amymech_29:

(Start: 145 @26520 has 2 MA's), (Start: 171 @26478 has 20 MA's), (205, 26412), (244, 26331), (263, 26292), (274, 26277), (277, 26271), (282, 26259), (297, 26232), (314, 26199), (350, 26142), (362, 26109), (364, 26106), (396, 26058), (410, 26016), (411, 26013), (422, 25989), (431, 25974), (441, 25950), (449, 25935), (476, 25896), (487, 25884), (507, 25845), (530, 25806), (558, 25758), (560, 25755), (609, 25683), (613, 25677), (618, 25665), (620, 25662), (622, 25656), (649, 25602), (658, 25584), (660, 25581), (677, 25554), (686, 25536), (689, 25530), (691, 25527), (715, 25485), (721, 25458), (723, 25452), (736, 25395), (764, 25332), (766, 25329),

Gene: Anaya_43 Start: 33089, Stop: 34177, Start Num: 163

Candidate Starts for Anaya_43:

(Start: 163 @33089 has 283 MA's), (Start: 218 @33191 has 6 MA's), (231, 33215), (253, 33251), (319, 33365), (371, 33443), (429, 33527), (465, 33596), (466, 33599), (556, 33749), (618, 33854), (675, 33941), (715, 33989),

Gene: Andrew_37 Start: 23839, Stop: 22646, Start Num: 147

Candidate Starts for Andrew_37:

(Start: 147 @23839 has 63 MA's), (176, 23794), (417, 23329), (555, 23101), (624, 22975), (630, 22963), (719, 22813), (766, 22675),

Gene: Anekin_34 Start: 24275, Stop: 25195, Start Num: 279

Candidate Starts for Anekin_34:

(208, 24146), (217, 24173), (Start: 254 @24233 has 1 MA's), (Start: 279 @24275 has 58 MA's), (342, 24389), (349, 24404), (365, 24431), (380, 24449), (410, 24518), (451, 24608), (464, 24617), (490, 24656), (535, 24725), (537, 24731), (558, 24764), (595, 24806), (599, 24815),

Gene: Anekin_37 Start: 26993, Stop: 25815, Start Num: 163

Candidate Starts for Anekin_37:

(Start: 140 @27011 has 3 MA's), (Start: 163 @26993 has 283 MA's), (190, 26942), (221, 26876), (299, 26756), (350, 26660), (388, 26624), (424, 26546), (465, 26459), (470, 26450), (506, 26390), (533, 26342), (557, 26300), (622, 26189), (645, 26147), (717, 26030), (722, 26009), (723, 26006), (726, 25991), (768, 25871),

Gene: Angelica_41 Start: 32708, Stop: 33796, Start Num: 163

Candidate Starts for Angelica_41:

(Start: 163 @32708 has 283 MA's), (Start: 218 @32810 has 6 MA's), (221, 32819), (231, 32834), (253, 32870), (371, 33062), (429, 33146), (465, 33215), (466, 33218), (556, 33368), (618, 33473), (675, 33560), (715, 33608), (757, 33752),

Gene: Angelique_39 Start: 30954, Stop: 32036, Start Num: 159

Candidate Starts for Angelique_39:

(Start: 86 @30843 has 6 MA's), (Start: 159 @30954 has 52 MA's), (190, 31008), (261, 31128), (423, 31383), (438, 31413), (466, 31473), (506, 31539), (519, 31563), (590, 31668), (723, 31893), (729, 31920), (742, 31968), (766, 32025),

Gene: Annalisa_36 Start: 28551, Stop: 29678, Start Num: 163

Candidate Starts for Annalisa_36:

(53, 28332), (62, 28368), (Start: 163 @28551 has 283 MA's), (190, 28605), (250, 28728), (276, 28761), (321, 28851), (343, 28884), (465, 29079), (466, 29082), (491, 29124), (513, 29160), (700, 29457), (734, 29577), (740, 29604), (766, 29667),

Gene: Annalisa_34 Start: 27176, Stop: 28099, Start Num: 275

Candidate Starts for Annalisa_34:

(Start: 275 @27176 has 15 MA's), (Start: 279 @27182 has 58 MA's), (393, 27371), (396, 27377), (438, 27479), (448, 27503), (491, 27563), (533, 27620), (535, 27626), (537, 27632), (612, 27746), (615, 27752), (621, 27764), (662, 27839), (675, 27863), (676, 27866), (711, 27902), (714, 27908), (716, 27920), (742, 28022),

Gene: Anselm_35 Start: 26782, Stop: 25661, Start Num: 152

Candidate Starts for Anselm_35:

(Start: 103 @26845 has 3 MA's), (Start: 152 @26782 has 119 MA's), (Start: 188 @26728 has 14 MA's), (Start: 218 @26659 has 6 MA's), (243, 26614), (337, 26458), (393, 26395), (429, 26326), (448, 26284), (464, 26260), (503, 26197), (551, 26107), (559, 26095), (609, 26020), (613, 26014), (622, 25993), (629, 25978), (639, 25960), (657, 25933), (718, 25822), (730, 25777), (731, 25774), (732, 25771), (738, 25744), (740, 25738), (743, 25726), (761, 25687),

Gene: Antonio_39 Start: 30563, Stop: 31645, Start Num: 159

Candidate Starts for Antonio_39:

(Start: 86 @30452 has 6 MA's), (Start: 159 @30563 has 52 MA's), (190, 30617), (261, 30737), (423, 30992), (438, 31022), (466, 31082), (506, 31148), (519, 31172), (723, 31502), (729, 31529), (766, 31634),

Gene: Anubis_38 Start: 26676, Stop: 25531, Start Num: 152

Candidate Starts for Anubis_38:

(Start: 152 @26676 has 119 MA's), (Start: 180 @26637 has 10 MA's), (205, 26589), (Start: 218 @26553 has 6 MA's), (243, 26508), (337, 26352), (350, 26325), (393, 26289), (424, 26232), (464, 26154), (477, 26130), (503, 26091), (540, 26019), (546, 26007), (551, 26001), (559, 25989), (609, 25914), (613, 25908), (622, 25887), (629, 25872), (639, 25854), (655, 25830), (718, 25716), (730, 25671), (731, 25668), (734, 25659), (738, 25638), (740, 25632), (743, 25620), (761, 25581),

Gene: Apocalypse_44 Start: 33493, Stop: 34581, Start Num: 163

Candidate Starts for Apocalypse_44:

(Start: 163 @33493 has 283 MA's), (Start: 218 @33595 has 6 MA's), (231, 33619), (253, 33655), (337, 33793), (371, 33847), (429, 33931), (465, 34000), (466, 34003), (556, 34153), (618, 34258), (675, 34345), (715, 34393), (757, 34537),

Gene: Apricot_48 Start: 31405, Stop: 32475, Start Num: 163

Candidate Starts for Apricot_48:

(117, 31360), (Start: 163 @31405 has 283 MA's), (190, 31456), (216, 31504), (232, 31534), (250, 31561), (303, 31648), (343, 31714), (346, 31720), (371, 31756), (382, 31765), (419, 31816), (429, 31840), (439, 31858), (470, 31921), (491, 31957), (512, 31990), (513, 31993), (519, 32005), (533, 32029), (623, 32173), (641, 32200), (692, 32272), (723, 32332), (729, 32359), (736, 32389), (742, 32407), (766, 32464),

Gene: ArV2_29 Start: 22829, Stop: 21699, Start Num: 163

Candidate Starts for ArV2_29:

(Start: 163 @22829 has 283 MA's), (190, 22778), (284, 22625), (319, 22550), (357, 22481), (384, 22454), (438, 22343), (447, 22319), (481, 22259), (483, 22256), (491, 22241), (607, 22046), (622, 22016), (633, 21998), (635, 21995), (643, 21977), (675, 21923), (682, 21908), (706, 21881), (727, 21809), (730, 21800), (734, 21788),

Gene: ArchiDore_38 Start: 30835, Stop: 31752, Start Num: 279

Candidate Starts for ArchiDore_38:

(Start: 275 @30829 has 15 MA's), (Start: 279 @30835 has 58 MA's), (348, 30955), (393, 31024), (396, 31030), (426, 31102), (447, 31153), (491, 31216), (531, 31270), (535, 31279), (546, 31300), (553, 31309), (577, 31339), (649, 31471), (662, 31492), (675, 31516), (676, 31519), (690, 31540), (711, 31555), (714, 31561), (730, 31630), (773, 31744),

Gene: ArchiDore_40 Start: 34244, Stop: 33075, Start Num: 147

Candidate Starts for ArchiDore_40:

(Start: 147 @34244 has 63 MA's), (224, 34082), (377, 33818), (387, 33803), (408, 33758), (429, 33710), (438, 33689), (439, 33686), (472, 33650), (499, 33623), (512, 33602), (558, 33521), (584, 33500), (613, 33443), (646, 33371), (662, 33341), (714, 33284), (716, 33272), (761, 33131), (778, 33092), (784, 33083),

Gene: Ardmore_36 Start: 30890, Stop: 32008, Start Num: 163

Candidate Starts for Ardmore_36:

(Start: 163 @30890 has 283 MA's), (168, 30899), (253, 31061), (346, 31226), (371, 31262), (382, 31271), (468, 31445), (501, 31502), (504, 31505), (512, 31517), (513, 31520), (519, 31532), (539, 31571), (560, 31598), (590, 31634), (592, 31637), (609, 31673), (613, 31679), (618, 31691), (620, 31694), (675, 31778), (682, 31793), (708, 31811), (727, 31880), (730, 31889), (740, 31928), (745, 31946), (755, 31967), (762, 31982), (766, 31991), (768, 31994),

Gene: Arianna_32 Start: 30114, Stop: 28903, Start Num: 142

Candidate Starts for Arianna_32:

(Start: 142 @30114 has 4 MA's), (231, 29940), (304, 29799), (395, 29640), (467, 29490), (517, 29400), (663, 29136), (685, 29100), (688, 29094), (756, 28929), (763, 28914), (765, 28911),

Gene: Ariel_86 Start: 50063, Stop: 51337, Start Num: 69

Candidate Starts for Ariel_86:

(54, 50006), (Start: 65 @50048 has 1 MA's), (Start: 69 @50063 has 10 MA's), (72, 50066), (Start: 91 @50111 has 1 MA's), (Start: 112 @50150 has 1 MA's), (342, 50531), (418, 50615), (423, 50627), (424, 50630), (491, 50759), (575, 50879), (609, 50942), (619, 50960), (631, 50984), (672, 51056), (737, 51233), (738, 51236), (740, 51242), (745, 51260), (752, 51275), (757, 51284), (759, 51287), (779, 51332),

Gene: Asapag_47 Start: 32537, Stop: 33631, Start Num: 163

Candidate Starts for Asapag_47:

(94, 32450), (115, 32486), (Start: 163 @32537 has 283 MA's), (190, 32588), (228, 32660), (232, 32666), (250, 32693), (303, 32780), (346, 32852), (371, 32888), (382, 32897), (429, 32972), (439, 32990), (491, 33089), (512, 33122), (513, 33125), (519, 33137), (592, 33239), (623, 33305), (641, 33332), (692, 33404), (723, 33464), (729, 33491), (768, 33599),

Gene: Asayake_41 Start: 32792, Stop: 33880, Start Num: 163

Candidate Starts for Asayake_41:

(Start: 163 @32792 has 283 MA's), (Start: 218 @32894 has 6 MA's), (231, 32918), (253, 32954), (337, 33092), (429, 33230), (465, 33299), (466, 33302), (556, 33452), (618, 33557), (715, 33692),

Gene: Atiba_41 Start: 32439, Stop: 33527, Start Num: 163

Candidate Starts for Atiba_41:

(Start: 163 @32439 has 283 MA's), (190, 32490), (Start: 218 @32541 has 6 MA's), (231, 32565), (253, 32601), (337, 32739), (371, 32793), (429, 32877), (465, 32946), (466, 32949), (556, 33099), (603, 33177), (618, 33204), (675, 33291), (715, 33339),

Gene: Atlantica_36 Start: 23914, Stop: 22721, Start Num: 147

Candidate Starts for Atlantica_36:

(Start: 147 @23914 has 63 MA's), (379, 23485), (408, 23428), (417, 23404), (555, 23176), (624, 23050), (630, 23038), (640, 23017), (722, 22879), (743, 22798), (766, 22750),

Gene: Attis_34 Start: 27696, Stop: 28778, Start Num: 159

Candidate Starts for Attis_34:

(Start: 86 @27585 has 6 MA's), (Start: 159 @27696 has 52 MA's), (190, 27750), (261, 27870), (423, 28125), (438, 28155), (466, 28215), (506, 28281), (519, 28305), (723, 28635), (729, 28662), (766, 28767),

Gene: AugsMagnumOpus_38 Start: 26782, Stop: 25637, Start Num: 152

Candidate Starts for AugsMagnumOpus_38:

(Start: 152 @26782 has 119 MA's), (Start: 180 @26743 has 10 MA's), (205, 26695), (Start: 218 @26659 has 6 MA's), (243, 26614), (337, 26458), (350, 26431), (393, 26395), (424, 26338), (464, 26260), (477, 26236), (503, 26197), (540, 26125), (546, 26113), (551, 26107), (559, 26095), (609, 26020), (613, 26014), (622, 25993), (629, 25978), (639, 25960), (655, 25936), (718, 25822), (730, 25777), (731, 25774), (734, 25765), (738, 25744), (740, 25738), (743, 25726), (761, 25687),

Gene: Auxilium_38 Start: 25309, Stop: 24170, Start Num: 163

Candidate Starts for Auxilium_38:

(Start: 163 @25309 has 283 MA's), (190, 25258), (289, 25090), (299, 25072), (388, 24940), (424, 24862), (429, 24850), (465, 24775), (470, 24766), (506, 24706), (557, 24616), (620, 24511), (630, 24490), (645, 24463), (717, 24340), (723, 24316), (726, 24301), (746, 24226), (761, 24196),

Gene: Auxilium_34 Start: 22112, Stop: 23029, Start Num: 279

Candidate Starts for Auxilium_34:

(208, 21983), (211, 21989), (Start: 279 @22112 has 58 MA's), (365, 22268), (380, 22283), (387, 22295), (451, 22442), (464, 22451), (490, 22490), (521, 22535), (535, 22559), (537, 22565), (558, 22598), (595, 22640), (599, 22649), (618, 22691), (662, 22775), (726, 22895), (730, 22910),

Gene: Ayotoya_39 Start: 32055, Stop: 30784, Start Num: 147

Candidate Starts for Ayotoya_39:

(Start: 147 @32055 has 63 MA's), (160, 32040), (206, 31938), (Start: 222 @31896 has 1 MA's), (230, 31884), (Start: 275 @31809 has 15 MA's), (312, 31734), (317, 31725), (328, 31707), (387, 31608), (390, 31605), (429, 31515), (511, 31410), (557, 31314), (560, 31308), (646, 31146), (716, 31005), (727, 30960), (741, 30909), (743, 30900), (748, 30885), (757, 30873), (762, 30861), (786, 30822),

Gene: B1_31 Start: 25858, Stop: 24692, Start Num: 118

Candidate Starts for B1_31:

(Start: 118 @25858 has 1 MA's), (Start: 152 @25816 has 119 MA's), (Start: 218 @25693 has 6 MA's), (243, 25648), (289, 25576), (313, 25528), (346, 25474), (350, 25465), (393, 25429), (424, 25372), (551, 25141), (559, 25129), (582, 25108), (609, 25054), (613, 25048), (622, 25027), (629, 25012), (639, 24994), (657, 24967), (718, 24856), (731, 24808), (732, 24805), (738, 24778), (740, 24772), (743, 24760), (752, 24739), (761, 24721),

Gene: BAKA_86 Start: 53552, Stop: 54781, Start Num: 85

Candidate Starts for BAKA_86:

(Start: 85 @53552 has 29 MA's), (Start: 91 @53570 has 1 MA's), (Start: 112 @53609 has 1 MA's), (Start: 254 @53846 has 1 MA's), (318, 53954), (418, 54074), (419, 54077), (423, 54086), (429, 54101), (447, 54140), (491, 54218), (556, 54323), (562, 54335), (575, 54338), (582, 54347), (607, 54398), (609, 54401), (619, 54419), (672, 54515), (709, 54572), (737, 54692), (738, 54695), (745, 54719), (757, 54743), (759, 54746),

Gene: BBQValindra_35 Start: 29573, Stop: 30496, Start Num: 275

Candidate Starts for BBQValindra_35:

(Start: 275 @29573 has 15 MA's), (Start: 279 @29579 has 58 MA's), (393, 29768), (396, 29774), (448, 29900), (483, 29945), (491, 29960), (535, 30023), (546, 30044), (615, 30149), (621, 30161), (649, 30215), (662, 30236), (676, 30263), (748, 30440), (762, 30467),

Gene: BEEST_41 Start: 32792, Stop: 33880, Start Num: 163

Candidate Starts for BEEST_41:

(Start: 163 @32792 has 283 MA's), (Start: 218 @32894 has 6 MA's), (231, 32918), (253, 32954), (337, 33092), (429, 33230), (465, 33299), (466, 33302), (556, 33452), (618, 33557), (715, 33692),

Gene: BENtherdunthat_50 Start: 31782, Stop: 32852, Start Num: 163

Candidate Starts for BENtherdunthat_50:

(119, 31740), (Start: 163 @31782 has 283 MA's), (190, 31833), (228, 31905), (232, 31911), (250, 31938), (371, 32133), (382, 32142), (419, 32193), (423, 32202), (424, 32205), (429, 32217), (450, 32262), (470, 32298), (491, 32334), (512, 32367), (513, 32370), (519, 32382), (623, 32550), (692, 32649), (723, 32709), (729, 32736), (730, 32739), (736, 32766), (738, 32772), (742, 32784), (766, 32841),

Gene: BGlluviae_41 Start: 32595, Stop: 33683, Start Num: 163

Candidate Starts for BGlluviae_41:

(16, 31992), (24, 32169), (41, 32334), (51, 32373), (Start: 163 @32595 has 283 MA's), (190, 32646), (Start: 218 @32697 has 6 MA's), (231, 32721), (253, 32757), (337, 32895), (429, 33033), (465, 33102), (466, 33105), (556, 33255), (618, 33360), (715, 33495),

Gene: BabyJohn_32 Start: 26607, Stop: 25474, Start Num: 140

Candidate Starts for BabyJohn_32:

(Start: 140 @26607 has 3 MA's), (Start: 195 @26526 has 8 MA's), (Start: 218 @26472 has 6 MA's), (243, 26427), (348, 26250), (350, 26244), (393, 26208), (424, 26151), (464, 26073), (551, 25920), (559, 25908), (609, 25833), (613, 25827), (622, 25806), (629, 25791), (639, 25773), (655, 25749), (731, 25587), (738, 25557), (740, 25551), (743, 25539), (761, 25500),

Gene: BabyRay_33 Start: 26385, Stop: 25249, Start Num: 140

Candidate Starts for BabyRay_33:

(Start: 140 @26385 has 3 MA's), (Start: 218 @26250 has 6 MA's), (348, 26028), (350, 26022), (358, 26007), (393, 25986), (424, 25929), (464, 25851), (551, 25698), (559, 25686), (609, 25611), (613, 25605), (622, 25584), (629, 25569), (639, 25551), (731, 25365), (738, 25335), (740, 25329), (743, 25317), (752, 25296), (761, 25278),

Gene: Bactobuster_35 Start: 27867, Stop: 26860, Start Num: 218

Candidate Starts for Bactobuster_35:

(Start: 152 @27987 has 119 MA's), (Start: 180 @27951 has 10 MA's), (Start: 218 @27867 has 6 MA's), (243, 27822), (343, 27654), (393, 27603), (448, 27492), (464, 27468), (486, 27435), (491, 27423), (519, 27375), (551, 27315), (554, 27312), (559, 27303), (609, 27228), (613, 27222), (622, 27201), (629, 27186), (639, 27168), (731, 26982), (738, 26952), (740, 26946), (743, 26934), (761,

26895), (774, 26871),

Gene: Baehexic_34 Start: 26830, Stop: 25697, Start Num: 152

Candidate Starts for Baehexic_34:

(Start: 152 @26830 has 119 MA's), (Start: 188 @26776 has 14 MA's), (Start: 218 @26707 has 6 MA's), (243, 26662), (337, 26506), (350, 26479), (393, 26443), (424, 26386), (491, 26263), (503, 26245), (551, 26155), (559, 26143), (609, 26068), (613, 26062), (622, 26041), (629, 26026), (639, 26008), (657, 25981), (659, 25972), (718, 25870), (731, 25822), (738, 25792), (740, 25786), (743, 25774), (761, 25735),

Gene: BaghaKamala_40 Start: 31917, Stop: 33005, Start Num: 163

Candidate Starts for BaghaKamala_40:

(51, 31695), (Start: 163 @31917 has 283 MA's), (190, 31968), (Start: 218 @32019 has 6 MA's), (231, 32043), (253, 32079), (337, 32217), (371, 32271), (429, 32355), (465, 32424), (466, 32427), (556, 32577), (618, 32682), (675, 32769), (715, 32817),

Gene: Bagrid_82 Start: 52202, Stop: 53431, Start Num: 85

Candidate Starts for Bagrid_82:

(Start: 85 @52202 has 29 MA's), (Start: 91 @52220 has 1 MA's), (Start: 112 @52259 has 1 MA's), (Start: 254 @52496 has 1 MA's), (318, 52604), (418, 52724), (419, 52727), (423, 52736), (429, 52751), (447, 52790), (491, 52868), (556, 52973), (562, 52985), (575, 52988), (582, 52997), (607, 53048), (609, 53051), (619, 53069), (672, 53165), (709, 53222), (737, 53342), (738, 53345), (745, 53369), (757, 53393), (759, 53396),

Gene: Bakery_42 Start: 33465, Stop: 34382, Start Num: 279

Candidate Starts for Bakery_42:

(Start: 275 @33459 has 15 MA's), (Start: 279 @33465 has 58 MA's), (346, 33582), (348, 33585), (390, 33648), (393, 33654), (396, 33660), (491, 33846), (531, 33900), (533, 33903), (535, 33909), (546, 33930), (612, 34029), (615, 34035), (621, 34047), (662, 34122), (676, 34149), (720, 34221), (730, 34260), (773, 34374),

Gene: Ball_25 Start: 21363, Stop: 22283, Start Num: 279

Candidate Starts for Ball_25:

(Start: 279 @21363 has 58 MA's), (292, 21387), (342, 21477), (365, 21519), (380, 21537), (387, 21549), (410, 21606), (420, 21627), (451, 21696), (464, 21705), (490, 21744), (535, 21813), (537, 21819), (558, 21852), (579, 21876), (595, 21894), (618, 21945), (621, 21951), (625, 21963), (726, 22149), (732, 22170), (761, 22251), (762, 22254),

Gene: BangNhom_33 Start: 26587, Stop: 25466, Start Num: 152

Candidate Starts for BangNhom_33:

(Start: 116 @26632 has 3 MA's), (135, 26605), (Start: 152 @26587 has 119 MA's), (Start: 195 @26518 has 8 MA's), (Start: 218 @26464 has 6 MA's), (346, 26245), (350, 26236), (393, 26200), (418, 26158), (423, 26146), (424, 26143), (540, 25930), (551, 25912), (609, 25825), (613, 25819), (622, 25798), (629, 25783), (639, 25765), (718, 25627), (731, 25579), (738, 25549), (740, 25543), (743, 25531), (761, 25492),

Gene: Banquo_37 Start: 27140, Stop: 26034, Start Num: 174

Candidate Starts for Banquo_37:

(Start: 174 @27140 has 12 MA's), (347, 26819), (390, 26756), (397, 26744), (415, 26693), (504, 26531), (532, 26483), (615, 26354), (637, 26306), (690, 26210), (734, 26120), (740, 26093),

Gene: BarrelRoll_41 Start: 32462, Stop: 33550, Start Num: 163

Candidate Starts for BarrelRoll_41:

(Start: 163 @32462 has 283 MA's), (190, 32513), (Start: 218 @32564 has 6 MA's), (231, 32588), (253, 32624), (337, 32762), (371, 32816), (429, 32900), (465, 32969), (466, 32972), (556, 33122), (603, 33200), (618, 33227), (675, 33314), (715, 33362),

Gene: Basilisk_34 Start: 24758, Stop: 23574, Start Num: 147

Candidate Starts for Basilisk_34:

(Start: 147 @24758 has 63 MA's), (263, 24539), (341, 24404), (379, 24329), (390, 24314), (501, 24113), (620, 23906), (624, 23894), (633, 23876), (640, 23861), (714, 23759), (719, 23732), (722, 23723),

Gene: BatStarr_39 Start: 31901, Stop: 33094, Start Num: 86

Candidate Starts for BatStarr_39:

(Start: 86 @31901 has 6 MA's), (Start: 159 @32012 has 52 MA's), (190, 32066), (261, 32186), (419, 32432), (423, 32441), (438, 32471), (466, 32531), (506, 32597), (519, 32621), (723, 32951), (729, 32978), (766, 33083),

Gene: Batiatus_43 Start: 33150, Stop: 34277, Start Num: 163

Candidate Starts for Batiatus_43:

(Start: 91 @33048 has 1 MA's), (Start: 123 @33105 has 7 MA's), (Start: 163 @33150 has 283 MA's), (168, 33159), (253, 33321), (281, 33372), (289, 33390), (310, 33435), (371, 33531), (382, 33540), (424, 33621), (438, 33645), (468, 33714), (491, 33753), (501, 33771), (504, 33774), (512, 33786), (513, 33789), (519, 33801), (529, 33816), (539, 33840), (543, 33846), (560, 33867), (590, 33903), (592, 33906), (609, 33942), (613, 33948), (620, 33963), (625, 33978), (675, 34047), (682, 34062), (717, 34104), (727, 34149), (730, 34158), (740, 34197), (745, 34215), (755, 34236), (762, 34251), (766, 34260), (768, 34263),

Gene: Bauer_39 Start: 26996, Stop: 28129, Start Num: 163

Candidate Starts for Bauer_39:

(52, 26783), (60, 26819), (77, 26861), (Start: 145 @26984 has 2 MA's), (Start: 163 @26996 has 283 MA's), (214, 27089), (273, 27182), (388, 27359), (424, 27422), (429, 27434), (466, 27512), (473, 27524), (505, 27575), (548, 27656), (557, 27668), (575, 27695), (609, 27749), (674, 27869), (690, 27890), (723, 27962), (726, 27977), (745, 28049), (746, 28052), (761, 28082), (762, 28085), (777, 28118),

Gene: Bauer_32 Start: 24145, Stop: 25065, Start Num: 279

Candidate Starts for Bauer_32:

(Start: 279 @24145 has 58 MA's), (342, 24259), (365, 24301), (380, 24319), (387, 24331), (410, 24388), (451, 24478), (490, 24526), (535, 24595), (537, 24601), (558, 24634), (579, 24658), (726, 24931), (730, 24946), (732, 24952),

Gene: BaxterFox_37 Start: 31379, Stop: 30117, Start Num: 147

Candidate Starts for BaxterFox_37:

(Start: 147 @31379 has 63 MA's), (221, 31223), (322, 31040), (344, 31004), (379, 30944), (387, 30932), (408, 30887), (421, 30854), (439, 30812), (560, 30644), (563, 30641), (609, 30566), (618, 30548), (620, 30545), (646, 30488), (707, 30371), (714, 30359), (727, 30302), (743, 30242), (748, 30227), (757, 30215), (761, 30206), (778, 30167),

Gene: Beakin_43 Start: 31583, Stop: 32701, Start Num: 163

Candidate Starts for Beakin_43:

(Start: 163 @31583 has 283 MA's), (168, 31592), (253, 31754), (346, 31919), (371, 31955), (382, 31964), (438, 32069), (468, 32138), (491, 32177), (501, 32195), (504, 32198), (512, 32210), (513, 32213), (519, 32225), (529, 32240), (539, 32264), (543, 32270), (560, 32291), (590, 32327), (592, 32330), (609, 32366), (613, 32372), (620, 32387), (625, 32402), (675, 32471), (682, 32486), (717,

32528), (727, 32573), (730, 32582), (740, 32621), (745, 32639), (755, 32660), (762, 32675), (766, 32684), (768, 32687),

Gene: Beauxregard13_36 Start: 26790, Stop: 25645, Start Num: 152

Candidate Starts for Beauxregard13_36:

(Start: 152 @26790 has 119 MA's), (Start: 180 @26751 has 10 MA's), (205, 26703), (Start: 218 @26667 has 6 MA's), (243, 26622), (337, 26466), (350, 26439), (393, 26403), (424, 26346), (464, 26268), (477, 26244), (503, 26205), (540, 26133), (546, 26121), (551, 26115), (559, 26103), (609, 26028), (613, 26022), (622, 26001), (629, 25986), (639, 25968), (655, 25944), (718, 25830), (730, 25785), (731, 25782), (734, 25773), (738, 25752), (740, 25746), (743, 25734), (761, 25695),

Gene: Bedetta_40 Start: 24167, Stop: 22980, Start Num: 147

Candidate Starts for Bedetta_40:

(87, 24257), (Start: 147 @24167 has 63 MA's), (379, 23738), (624, 23303), (714, 23168),

Gene: BeeGee_42 Start: 31829, Stop: 32935, Start Num: 163

Candidate Starts for BeeGee_42:

(119, 31772), (Start: 163 @31829 has 283 MA's), (190, 31880), (250, 31985), (281, 32024), (428, 32258), (429, 32264), (465, 32333), (466, 32336), (486, 32366), (513, 32417), (519, 32429), (654, 32657), (701, 32717), (723, 32792), (730, 32822), (766, 32924),

Gene: Beem_81 Start: 53063, Stop: 54292, Start Num: 85

Candidate Starts for Beem_81:

(Start: 85 @53063 has 29 MA's), (Start: 91 @53081 has 1 MA's), (Start: 112 @53120 has 1 MA's), (Start: 254 @53357 has 1 MA's), (318, 53465), (418, 53585), (419, 53588), (423, 53597), (429, 53612), (447, 53651), (491, 53729), (556, 53834), (562, 53846), (575, 53849), (582, 53858), (607, 53909), (609, 53912), (619, 53930), (672, 54026), (709, 54083), (737, 54203), (738, 54206), (745, 54230), (757, 54254), (759, 54257),

Gene: Beenie_33 Start: 29179, Stop: 30306, Start Num: 163

Candidate Starts for Beenie_33:

(129, 29140), (Start: 163 @29179 has 283 MA's), (190, 29233), (250, 29356), (276, 29389), (321, 29479), (343, 29512), (465, 29707), (466, 29710), (491, 29752), (513, 29788), (700, 30085), (723, 30163), (729, 30190), (734, 30205), (740, 30232), (766, 30295),

Gene: Beenie_30 Start: 27395, Stop: 28312, Start Num: 279

Candidate Starts for Beenie_30:

(Start: 275 @27389 has 15 MA's), (Start: 279 @27395 has 58 MA's), (393, 27584), (396, 27590), (438, 27692), (448, 27716), (491, 27776), (533, 27833), (535, 27839), (537, 27845), (612, 27959), (615, 27965), (621, 27977), (662, 28052), (675, 28076), (676, 28079), (711, 28115), (714, 28121), (721, 28154), (742, 28235),

Gene: Beezoo_43 Start: 33442, Stop: 34530, Start Num: 163

Candidate Starts for Beezoo_43:

(Start: 163 @33442 has 283 MA's), (Start: 218 @33544 has 6 MA's), (231, 33568), (253, 33604), (337, 33742), (371, 33796), (429, 33880), (465, 33949), (466, 33952), (556, 34102), (618, 34207), (675, 34294), (715, 34342), (757, 34486),

Gene: Bella96_42 Start: 33333, Stop: 34421, Start Num: 163

Candidate Starts for Bella96_42:

(Start: 163 @33333 has 283 MA's), (190, 33384), (Start: 218 @33435 has 6 MA's), (231, 33459), (253, 33495), (319, 33609), (337, 33633), (371, 33687), (429, 33771), (465, 33840), (556, 33993), (618, 34098), (675, 34185), (715, 34233), (757, 34377),

Gene: Belladonna_41 Start: 32595, Stop: 33683, Start Num: 163

Candidate Starts for Belladonna_41:

(16, 31992), (24, 32169), (41, 32334), (51, 32373), (Start: 163 @32595 has 283 MA's), (190, 32646), (Start: 218 @32697 has 6 MA's), (231, 32721), (253, 32757), (337, 32895), (429, 33033), (465, 33102), (466, 33105), (556, 33255), (618, 33360), (715, 33495),

Gene: BellusTerra_33 Start: 26249, Stop: 25128, Start Num: 152

Candidate Starts for BellusTerra_33:

(Start: 116 @26294 has 3 MA's), (135, 26267), (Start: 152 @26249 has 119 MA's), (Start: 195 @26180 has 8 MA's), (Start: 218 @26126 has 6 MA's), (346, 25907), (350, 25898), (393, 25862), (418, 25820), (423, 25808), (424, 25805), (464, 25727), (540, 25592), (551, 25574), (609, 25487), (622, 25460), (629, 25445), (639, 25427), (718, 25289), (731, 25241), (738, 25211), (740, 25205), (743, 25193), (761, 25154),

Gene: BenchScraper_39 Start: 27267, Stop: 26128, Start Num: 163

Candidate Starts for BenchScraper_39:

(Start: 163 @27267 has 283 MA's), (190, 27216), (289, 27048), (299, 27030), (388, 26898), (424, 26820), (429, 26808), (433, 26802), (465, 26733), (470, 26724), (506, 26664), (557, 26574), (620, 26469), (630, 26448), (645, 26421), (717, 26298), (723, 26274), (726, 26259), (746, 26184), (761, 26154),

Gene: BenchScraper_36 Start: 24587, Stop: 25504, Start Num: 279

Candidate Starts for BenchScraper_36:

(208, 24458), (211, 24464), (Start: 279 @24587 has 58 MA's), (365, 24743), (380, 24758), (387, 24770), (451, 24917), (490, 24965), (521, 25010), (535, 25034), (537, 25040), (558, 25073), (599, 25124), (662, 25250), (676, 25277), (726, 25370), (762, 25475),

Gene: BetterKatz_39 Start: 31582, Stop: 30311, Start Num: 147

Candidate Starts for BetterKatz_39:

(Start: 147 @31582 has 63 MA's), (160, 31567), (206, 31465), (Start: 222 @31423 has 1 MA's), (230, 31411), (Start: 275 @31336 has 15 MA's), (312, 31261), (317, 31252), (328, 31234), (387, 31135), (390, 31132), (429, 31042), (511, 30937), (560, 30835), (573, 30817), (646, 30673), (716, 30532), (727, 30487), (741, 30436), (743, 30427), (757, 30400), (762, 30388), (786, 30349),

Gene: Bhageatrice_40 Start: 29135, Stop: 27957, Start Num: 163

Candidate Starts for Bhageatrice_40:

(124, 29174), (Start: 163 @29135 has 283 MA's), (221, 29018), (299, 28898), (388, 28766), (424, 28688), (465, 28601), (470, 28592), (506, 28532), (557, 28442), (620, 28337), (622, 28331), (645, 28289), (717, 28172), (723, 28148), (726, 28133), (768, 28013),

Gene: Bialota_37 Start: 31315, Stop: 32397, Start Num: 159

Candidate Starts for Bialota_37:

(Start: 86 @31204 has 6 MA's), (Start: 159 @31315 has 52 MA's), (190, 31369), (261, 31489), (423, 31744), (438, 31774), (466, 31834), (506, 31900), (519, 31924), (723, 32254), (729, 32281), (766, 32386),

Gene: BiancaTri92_35 Start: 27662, Stop: 26547, Start Num: 156

Candidate Starts for BiancaTri92_35:

(129, 27692), (Start: 156 @27662 has 17 MA's), (Start: 188 @27611 has 14 MA's), (Start: 218 @27542 has 6 MA's), (243, 27497), (337, 27341), (339, 27338), (350, 27314), (393, 27278), (424, 27221), (464, 27143), (503, 27080), (551, 26990), (559, 26978), (609, 26903), (613, 26897), (622, 26876), (629, 26861), (639, 26843), (731, 26657), (738, 26627), (740, 26621), (743, 26609), (761, 26570),

Gene: BigPhil_38 Start: 27903, Stop: 29021, Start Num: 163

Candidate Starts for BigPhil_38:

(Start: 163 @27903 has 283 MA's), (253, 28074), (346, 28239), (371, 28275), (382, 28284), (424, 28365), (438, 28389), (468, 28458), (491, 28497), (501, 28515), (504, 28518), (512, 28530), (513, 28533), (519, 28545), (529, 28560), (539, 28584), (543, 28590), (560, 28611), (590, 28647), (592, 28650), (609, 28686), (613, 28692), (618, 28704), (620, 28707), (625, 28722), (675, 28791), (682, 28806), (717, 28848), (727, 28893), (730, 28902), (740, 28941), (745, 28959), (755, 28980), (762, 28995), (766, 29004), (768, 29007),

Gene: Biglebops_36 Start: 31976, Stop: 33070, Start Num: 163

Candidate Starts for Biglebops_36:

(30, 31625), (Start: 32 @31640 has 1 MA's), (45, 31733), (51, 31754), (82, 31847), (Start: 163 @31976 has 283 MA's), (190, 32027), (231, 32102), (253, 32138), (310, 32234), (319, 32252), (337, 32276), (367, 32324), (371, 32330), (452, 32462), (465, 32495), (491, 32540), (556, 32648), (618, 32753), (659, 32813), (715, 32888), (742, 32996), (757, 33032),

Gene: BillyTP_37 Start: 25308, Stop: 26225, Start Num: 279

Candidate Starts for BillyTP_37:

(208, 25179), (211, 25185), (Start: 279 @25308 has 58 MA's), (365, 25464), (380, 25479), (387, 25491), (451, 25638), (464, 25647), (490, 25686), (521, 25731), (535, 25755), (537, 25761), (558, 25794), (595, 25836), (599, 25845), (618, 25887), (662, 25971), (726, 26091), (730, 26106),

Gene: BillyTP_42 Start: 29080, Stop: 27908, Start Num: 163

Candidate Starts for BillyTP_42:

(Start: 163 @29080 has 283 MA's), (221, 28963), (289, 28861), (299, 28843), (388, 28711), (424, 28633), (429, 28621), (465, 28546), (470, 28537), (506, 28477), (557, 28387), (620, 28282), (630, 28261), (641, 28237), (645, 28234), (689, 28165), (717, 28111), (723, 28087), (726, 28072), (770, 27952), (783, 27925),

Gene: Bipolar_39 Start: 31381, Stop: 32499, Start Num: 163

Candidate Starts for Bipolar_39:

(Start: 163 @31381 has 283 MA's), (232, 31519), (253, 31552), (284, 31600), (346, 31717), (371, 31753), (382, 31762), (438, 31867), (468, 31936), (491, 31975), (504, 31996), (512, 32008), (513, 32011), (519, 32023), (529, 32038), (539, 32062), (543, 32068), (560, 32089), (590, 32125), (592, 32128), (609, 32164), (613, 32170), (620, 32185), (675, 32269), (682, 32284), (708, 32302), (717, 32326), (727, 32371), (730, 32380), (740, 32419), (745, 32437), (755, 32458), (762, 32473), (766, 32482), (768, 32485),

Gene: Birdsong_47 Start: 32758, Stop: 33852, Start Num: 163

Candidate Starts for Birdsong_47:

(60, 32578), (75, 32617), (Start: 163 @32758 has 283 MA's), (190, 32809), (232, 32887), (250, 32914), (284, 32959), (303, 33001), (346, 33073), (371, 33109), (382, 33118), (423, 33178), (429, 33193), (439, 33211), (491, 33310), (504, 33331), (512, 33343), (513, 33346), (519, 33358), (533, 33382), (592, 33460), (641, 33553), (692, 33625), (723, 33685), (738, 33748), (742, 33760), (768, 33820),

Gene: Bjaner7_34 Start: 27585, Stop: 28778, Start Num: 86

Candidate Starts for Bjaner7_34:

(Start: 83 @27579 has 2 MA's), (Start: 86 @27585 has 6 MA's), (Start: 159 @27696 has 52 MA's), (190, 27750), (261, 27870), (423, 28125), (438, 28155), (466, 28215), (506, 28281), (519, 28305), (561, 28374), (590, 28410), (723, 28635), (729, 28662), (766, 28767),

Gene: BlackSpider_31 Start: 24033, Stop: 24953, Start Num: 279

Candidate Starts for BlackSpider_31:

(121, 23742), (130, 23754), (173, 23820), (210, 23910), (Start: 279 @24033 has 58 MA's), (342, 24147), (373, 24198), (380, 24207), (387, 24219), (410, 24276), (451, 24366), (490, 24414), (535, 24483), (537, 24489), (543, 24498), (558, 24522), (579, 24546), (673, 24720), (726, 24819), (727, 24825), (730, 24834), (732, 24840),

Gene: BlackSpider_36 Start: 26664, Stop: 27788, Start Num: 163

Candidate Starts for BlackSpider_36:

(52, 26439), (60, 26475), (Start: 163 @26664 has 283 MA's), (273, 26850), (388, 27027), (424, 27090), (429, 27102), (466, 27180), (473, 27192), (505, 27243), (548, 27324), (557, 27336), (575, 27363), (609, 27417), (722, 27627), (723, 27630), (726, 27645), (737, 27690), (746, 27720), (761, 27750),

Gene: Blarby_54 Start: 32907, Stop: 34010, Start Num: 163

Candidate Starts for Blarby_54:

(Start: 163 @32907 has 283 MA's), (190, 32955), (232, 33036), (247, 33063), (371, 33276), (396, 33300), (424, 33348), (465, 33429), (506, 33498), (512, 33507), (539, 33561), (556, 33582), (603, 33660), (613, 33675), (654, 33735), (675, 33774), (682, 33789), (705, 33813), (717, 33840), (723, 33864), (727, 33885), (730, 33894), (742, 33939), (745, 33951),

Gene: BlingBling_33 Start: 29081, Stop: 30001, Start Num: 279

Candidate Starts for BlingBling_33:

(Start: 275 @29075 has 15 MA's), (Start: 279 @29081 has 58 MA's), (346, 29198), (348, 29201), (390, 29264), (393, 29270), (396, 29276), (491, 29462), (531, 29516), (533, 29519), (535, 29525), (546, 29546), (612, 29645), (615, 29651), (621, 29663), (662, 29738), (676, 29765), (711, 29801), (730, 29876),

Gene: Blizzard_41 Start: 32792, Stop: 33880, Start Num: 163

Candidate Starts for Blizzard_41:

(Start: 163 @32792 has 283 MA's), (Start: 218 @32894 has 6 MA's), (231, 32918), (253, 32954), (337, 33092), (429, 33230), (465, 33299), (466, 33302), (556, 33452), (618, 33557), (715, 33692),

Gene: BlueBird_34 Start: 26297, Stop: 25170, Start Num: 152

Candidate Starts for BlueBird_34:

(Start: 152 @26297 has 119 MA's), (205, 26210), (Start: 218 @26174 has 6 MA's), (243, 26129), (337, 25973), (343, 25961), (346, 25955), (393, 25910), (423, 25856), (424, 25853), (464, 25775), (551, 25622), (559, 25610), (592, 25571), (609, 25535), (613, 25529), (622, 25508), (629, 25493), (639, 25475), (657, 25448), (718, 25337), (731, 25289), (738, 25259), (740, 25253), (743, 25241), (761, 25202),

Gene: BlueShadow_37 Start: 24572, Stop: 25489, Start Num: 279

Candidate Starts for BlueShadow_37:

(208, 24443), (211, 24449), (Start: 279 @24572 has 58 MA's), (365, 24728), (380, 24743), (387, 24755), (451, 24902), (490, 24950), (521, 24995), (531, 25010), (535, 25019), (537, 25025), (558, 25058), (595, 25100), (599, 25109), (618, 25151), (662, 25235), (726, 25355), (730, 25370), (762, 25460),

Gene: BlueShadow_40 Start: 27645, Stop: 26479, Start Num: 163

Candidate Starts for BlueShadow_40:

(Start: 163 @27645 has 283 MA's), (289, 27426), (299, 27408), (388, 27276), (424, 27198), (429, 27186), (465, 27111), (470, 27102), (506, 27042), (557, 26952), (620, 26847), (630, 26826), (641, 26802), (645, 26799), (717, 26676), (722, 26655), (723, 26652), (726, 26637), (783, 26490),

Gene: BobaPhett_43 Start: 33216, Stop: 34334, Start Num: 163

Candidate Starts for BobaPhett_43:

(Start: 163 @33216 has 283 MA's), (232, 33354), (253, 33387), (284, 33435), (346, 33552), (371, 33588), (382, 33597), (438, 33702), (468, 33771), (504, 33831), (512, 33843), (513, 33846), (519, 33858), (529, 33873), (539, 33897), (543, 33903), (560, 33924), (590, 33960), (592, 33963), (609, 33999), (613, 34005), (618, 34017), (620, 34020), (675, 34104), (682, 34119), (717, 34161), (727, 34206), (730, 34215), (740, 34254), (745, 34272), (755, 34293), (762, 34308), (766, 34317), (768, 34320),

Gene: Bobby_80 Start: 53134, Stop: 54363, Start Num: 85

Candidate Starts for Bobby_80:

(Start: 85 @53134 has 29 MA's), (Start: 91 @53152 has 1 MA's), (Start: 112 @53191 has 1 MA's), (Start: 254 @53428 has 1 MA's), (318, 53536), (418, 53656), (419, 53659), (423, 53668), (429, 53683), (491, 53800), (562, 53917), (575, 53920), (582, 53929), (607, 53980), (609, 53983), (619, 54001), (672, 54097), (737, 54274), (738, 54277), (745, 54301), (757, 54325), (759, 54328),

Gene: Bobi_46 Start: 33890, Stop: 35017, Start Num: 163

Candidate Starts for Bobi_46:

(Start: 91 @33788 has 1 MA's), (Start: 123 @33845 has 7 MA's), (Start: 163 @33890 has 283 MA's), (168, 33899), (253, 34061), (281, 34112), (289, 34130), (310, 34175), (371, 34271), (382, 34280), (438, 34385), (468, 34454), (504, 34514), (512, 34526), (513, 34529), (519, 34541), (529, 34556), (539, 34580), (543, 34586), (560, 34607), (590, 34643), (592, 34646), (609, 34682), (613, 34688), (618, 34700), (620, 34703), (675, 34787), (682, 34802), (717, 34844), (727, 34889), (730, 34898), (740, 34937), (745, 34955), (755, 34976), (762, 34991), (766, 35000), (768, 35003),

Gene: Bock_39 Start: 31274, Stop: 30003, Start Num: 147

Candidate Starts for Bock_39:

(Start: 147 @31274 has 63 MA's), (160, 31259), (206, 31157), (Start: 222 @31115 has 1 MA's), (230, 31103), (Start: 275 @31028 has 15 MA's), (312, 30953), (317, 30944), (328, 30926), (387, 30827), (390, 30824), (429, 30734), (504, 30638), (511, 30629), (547, 30548), (560, 30527), (573, 30509), (613, 30434), (646, 30365), (716, 30224), (727, 30179), (741, 30128), (743, 30119), (757, 30092), (762, 30080), (786, 30041),

Gene: Boiiii_41 Start: 32794, Stop: 33882, Start Num: 163

Candidate Starts for Boiiii_41:

(Start: 163 @32794 has 283 MA's), (Start: 218 @32896 has 6 MA's), (231, 32920), (253, 32956), (337, 33094), (429, 33232), (465, 33301), (466, 33304), (556, 33454), (618, 33559), (715, 33694),

Gene: Bombitas_71 Start: 50226, Stop: 51455, Start Num: 85

Candidate Starts for Bombitas_71:

(Start: 85 @50226 has 29 MA's), (Start: 91 @50244 has 1 MA's), (Start: 112 @50283 has 1 MA's), (Start: 254 @50520 has 1 MA's), (318, 50628), (418, 50748), (419, 50751), (423, 50760), (429, 50775), (447, 50814), (491, 50892), (556, 50997), (562, 51009), (575, 51012), (582, 51021), (607, 51072), (609, 51075), (619, 51093), (672, 51189), (709, 51246), (737, 51366), (738, 51369), (745, 51393), (757, 51417), (759, 51420),

Gene: BoostSeason_44 Start: 34144, Stop: 35244, Start Num: 163

Candidate Starts for BoostSeason_44:

(Start: 163 @34144 has 283 MA's), (172, 34162), (190, 34195), (231, 34270), (253, 34306), (319, 34420), (337, 34444), (371, 34498), (458, 34639), (465, 34663), (466, 34666), (491, 34708), (556, 34816), (618, 34921), (651, 34966), (659, 34981), (742, 35173),

Gene: Bosnia_39 Start: 32012, Stop: 33094, Start Num: 159

Candidate Starts for Bosnia_39:

(Start: 86 @31901 has 6 MA's), (Start: 159 @32012 has 52 MA's), (190, 32066), (261, 32186), (321, 32297), (419, 32432), (466, 32531), (506, 32597), (519, 32621), (590, 32726), (723, 32951), (729, 32978), (742, 33026), (766, 33083),

Gene: BotCity_51 Start: 32558, Stop: 33655, Start Num: 163

Candidate Starts for BotCity_51:

(Start: 163 @32558 has 283 MA's), (190, 32609), (216, 32657), (232, 32687), (250, 32714), (303, 32801), (343, 32867), (346, 32873), (371, 32909), (382, 32918), (423, 32978), (429, 32993), (439, 33011), (450, 33038), (491, 33110), (512, 33143), (513, 33146), (519, 33158), (533, 33182), (623, 33326), (692, 33425), (723, 33485), (729, 33512), (742, 33560), (745, 33572), (768, 33620),

Gene: Bowser_37 Start: 29401, Stop: 30318, Start Num: 279

Candidate Starts for Bowser_37:

(Start: 275 @29395 has 15 MA's), (Start: 279 @29401 has 58 MA's), (Start: 298 @29425 has 1 MA's), (348, 29521), (393, 29590), (396, 29596), (438, 29698), (447, 29719), (491, 29782), (531, 29836), (535, 29845), (546, 29866), (553, 29875), (577, 29905), (649, 30037), (662, 30058), (675, 30082), (676, 30085), (711, 30121), (717, 30142),

Gene: BoyNamedSue_39 Start: 31289, Stop: 32371, Start Num: 159

Candidate Starts for BoyNamedSue_39:

(Start: 86 @31178 has 6 MA's), (Start: 159 @31289 has 52 MA's), (190, 31343), (261, 31463), (438, 31748), (466, 31808), (506, 31874), (519, 31898), (723, 32228), (742, 32303), (766, 32360),

Gene: Bradissa_36 Start: 31469, Stop: 32551, Start Num: 159

Candidate Starts for Bradissa_36:

(Start: 159 @31469 has 52 MA's), (Start: 222 @31586 has 1 MA's), (284, 31679), (423, 31901), (440, 31937), (466, 31991), (508, 32060), (513, 32069), (723, 32408), (729, 32435), (766, 32540),

Gene: Bradissa_35 Start: 30283, Stop: 31200, Start Num: 279

Candidate Starts for Bradissa_35:

(Start: 275 @30277 has 15 MA's), (Start: 279 @30283 has 58 MA's), (Start: 298 @30307 has 1 MA's), (348, 30403), (396, 30478), (426, 30550), (447, 30601), (491, 30664), (531, 30718), (535, 30727), (546, 30748), (553, 30757), (577, 30787), (615, 30853), (649, 30919), (662, 30940), (676, 30967), (711, 31003),

Gene: Bradman_34 Start: 25599, Stop: 24475, Start Num: 152

Candidate Starts for Bradman_34:

(Start: 152 @25599 has 119 MA's), (200, 25521), (Start: 218 @25476 has 6 MA's), (243, 25431), (284, 25371), (350, 25248), (393, 25212), (423, 25158), (424, 25155), (491, 25032), (493, 25029), (503, 25014), (546, 24930), (551, 24924), (582, 24891), (590, 24876), (609, 24837), (622, 24810), (629, 24795), (639, 24777), (657, 24750), (718, 24639), (731, 24591), (732, 24588), (734, 24582), (738, 24561), (740, 24555), (743, 24543), (761, 24504),

Gene: Bran_28 Start: 25552, Stop: 24428, Start Num: 154

Candidate Starts for Bran_28:

(Start: 154 @25552 has 3 MA's), (169, 25537), (187, 25513), (247, 25399), (271, 25360), (294, 25318), (308, 25285), (313, 25276), (330, 25249), (342, 25231), (399, 25132), (407, 25111), (415, 25087), (451, 25027), (492, 24985), (498, 24973), (502, 24967), (516, 24946), (548, 24892), (550, 24889), (553, 24886), (567, 24865), (615, 24781), (620, 24775), (628, 24757), (645, 24727), (687, 24670), (723, 24613), (726, 24598), (727, 24592), (730, 24583), (733, 24574), (734, 24571), (738, 24550), (740, 24544), (745, 24526), (756, 24502), (767, 24481), (769, 24478), (773, 24469),

Gene: BrayBeast_32 Start: 24672, Stop: 23518, Start Num: 163

Candidate Starts for BrayBeast_32:

(Start: 163 @24672 has 283 MA's), (192, 24618), (319, 24369), (346, 24324), (355, 24303), (357, 24300), (382, 24276), (429, 24177), (438, 24162), (481, 24078), (575, 23919), (607, 23865), (620, 23841), (630, 23823), (643, 23796), (659, 23769), (675, 23742), (682, 23727), (692, 23718), (726, 23634), (727, 23628), (730, 23619), (742, 23574), (753, 23544),

Gene: BreSam8_36 Start: 26783, Stop: 25638, Start Num: 152

Candidate Starts for BreSam8_36:

(Start: 152 @26783 has 119 MA's), (Start: 180 @26744 has 10 MA's), (205, 26696), (Start: 218 @26660 has 6 MA's), (243, 26615), (337, 26459), (350, 26432), (393, 26396), (424, 26339), (464, 26261), (477, 26237), (503, 26198), (540, 26126), (546, 26114), (551, 26108), (559, 26096), (609, 26021), (613, 26015), (622, 25994), (629, 25979), (639, 25961), (655, 25937), (718, 25823), (730, 25778), (731, 25775), (734, 25766), (738, 25745), (740, 25739), (743, 25727), (761, 25688),

Gene: Bridgette_38 Start: 26661, Stop: 27803, Start Num: 163

Candidate Starts for Bridgette_38:

(150, 26646), (Start: 158 @26655 has 1 MA's), (Start: 163 @26661 has 283 MA's), (361, 27015), (368, 27021), (386, 27039), (438, 27147), (465, 27207), (519, 27300), (592, 27420), (614, 27468), (630, 27498), (682, 27594), (730, 27702), (753, 27777),

Gene: Bridgette_34 Start: 24627, Stop: 25547, Start Num: 279

Candidate Starts for Bridgette_34:

(208, 24498), (211, 24504), (Start: 279 @24627 has 58 MA's), (365, 24783), (380, 24801), (387, 24813), (451, 24960), (464, 24969), (490, 25008), (535, 25077), (537, 25083), (558, 25116), (595, 25158), (600, 25170), (720, 25389), (726, 25413), (730, 25428), (732, 25434), (761, 25515), (762, 25518),

Gene: Brocalys_36 Start: 27204, Stop: 28322, Start Num: 163

Candidate Starts for Brocalys_36:

(Start: 163 @27204 has 283 MA's), (168, 27213), (253, 27375), (346, 27540), (371, 27576), (382, 27585), (424, 27666), (438, 27690), (468, 27759), (491, 27798), (501, 27816), (504, 27819), (512, 27831), (513, 27834), (519, 27846), (529, 27861), (539, 27885), (543, 27891), (560, 27912), (590, 27948), (592, 27951), (609, 27987), (613, 27993), (620, 28008), (625, 28023), (675, 28092), (682, 28107), (717, 28149), (727, 28194), (730, 28203), (740, 28242), (745, 28260), (755, 28281), (762, 28296), (766, 28305), (768, 28308),

Gene: Brushbloom_50 Start: 32847, Stop: 33965, Start Num: 163

Candidate Starts for Brushbloom_50:

(Start: 163 @32847 has 283 MA's), (168, 32856), (232, 32985), (253, 33018), (284, 33066), (346, 33183), (371, 33219), (382, 33228), (438, 33333), (468, 33402), (504, 33462), (512, 33474), (513, 33477), (519, 33489), (529, 33504), (539, 33528), (543, 33534), (560, 33555), (590, 33591), (592, 33594), (609, 33630), (613, 33636), (618, 33648), (620, 33651), (675, 33735), (682, 33750), (717, 33792), (727, 33837), (730, 33846), (740, 33885), (745, 33903), (755, 33924), (762, 33939), (766, 33948), (768, 33951),

Gene: Brylie_39 Start: 31322, Stop: 30051, Start Num: 147

Candidate Starts for Brylie_39:

(Start: 147 @31322 has 63 MA's), (160, 31307), (206, 31205), (Start: 222 @31163 has 1 MA's), (230, 31151), (Start: 275 @31076 has 15 MA's), (312, 31001), (317, 30992), (328, 30974), (387, 30875), (390, 30872), (429, 30782), (511, 30677), (557, 30581), (560, 30575), (646, 30413), (716, 30272), (727, 30227), (741, 30176), (743, 30167), (748, 30152), (757, 30140), (762, 30128), (786, 30089),

Gene: Brynnie_33 Start: 24636, Stop: 23452, Start Num: 147

Candidate Starts for Brynnie_33:

(Start: 147 @24636 has 63 MA's), (263, 24417), (341, 24282), (379, 24207), (390, 24192), (501, 23991), (507, 23982), (620, 23784), (624, 23772), (633, 23754), (640, 23739), (714, 23637), (719, 23610), (722, 23601),

Gene: Budski_49 Start: 33439, Stop: 34533, Start Num: 163

Candidate Starts for Budski_49:

(117, 33394), (Start: 163 @33439 has 283 MA's), (190, 33490), (250, 33595), (284, 33640), (303, 33682), (371, 33790), (382, 33799), (419, 33850), (429, 33874), (439, 33892), (491, 33991), (512, 34024), (513, 34027), (519, 34039), (533, 34063), (622, 34204), (641, 34234), (692, 34306), (703, 34315), (723, 34366), (724, 34369), (730, 34396), (734, 34408), (768, 34501),

Gene: Bugatti_33 Start: 26297, Stop: 25170, Start Num: 152

Candidate Starts for Bugatti_33:

(Start: 152 @26297 has 119 MA's), (205, 26210), (Start: 218 @26174 has 6 MA's), (243, 26129), (337, 25973), (343, 25961), (346, 25955), (393, 25910), (423, 25856), (424, 25853), (464, 25775), (551, 25622), (559, 25610), (592, 25571), (609, 25535), (613, 25529), (622, 25508), (629, 25493), (639, 25475), (657, 25448), (718, 25337), (731, 25289), (738, 25259), (740, 25253), (743, 25241), (761, 25202),

Gene: Buggy_36 Start: 26995, Stop: 25874, Start Num: 152

Candidate Starts for Buggy_36:

(Start: 103 @27058 has 3 MA's), (Start: 152 @26995 has 119 MA's), (Start: 188 @26941 has 14 MA's), (Start: 218 @26872 has 6 MA's), (243, 26827), (316, 26701), (350, 26644), (393, 26608), (423, 26554), (424, 26551), (491, 26428), (503, 26410), (551, 26320), (559, 26308), (609, 26233), (613, 26227), (622, 26206), (629, 26191), (639, 26173), (731, 25987), (738, 25957), (740, 25951), (743, 25939), (761, 25900),

Gene: Bunker_34 Start: 28706, Stop: 29623, Start Num: 279

Candidate Starts for Bunker_34:

(Start: 275 @28700 has 15 MA's), (Start: 279 @28706 has 58 MA's), (393, 28895), (396, 28901), (438, 29003), (491, 29087), (533, 29144), (535, 29150), (537, 29156), (546, 29171), (615, 29276), (621, 29288), (662, 29363), (676, 29390),

Gene: Bunnybear_33 Start: 29696, Stop: 30778, Start Num: 159

Candidate Starts for Bunnybear_33:

(Start: 86 @29585 has 6 MA's), (Start: 159 @29696 has 52 MA's), (190, 29750), (261, 29870), (438, 30155), (466, 30215), (506, 30281), (519, 30305), (590, 30410), (723, 30635), (729, 30662), (766, 30767),

Gene: Bunnybear_32 Start: 28492, Stop: 29415, Start Num: 275

Candidate Starts for Bunnybear_32:

(Start: 275 @28492 has 15 MA's), (Start: 279 @28498 has 58 MA's), (Start: 298 @28522 has 1 MA's), (348, 28618), (393, 28687), (396, 28693), (438, 28795), (447, 28816), (491, 28879), (531, 28933), (535, 28942), (546, 28963), (553, 28972), (577, 29002), (615, 29068), (625, 29092), (649, 29134), (662, 29155), (676, 29182), (711, 29218), (714, 29224),

Gene: Byougenkin_40 Start: 32001, Stop: 33119, Start Num: 163

Candidate Starts for Byougenkin_40:

(Start: 163 @32001 has 283 MA's), (232, 32139), (253, 32172), (284, 32220), (371, 32373), (382, 32382), (424, 32463), (468, 32556), (504, 32616), (512, 32628), (513, 32631), (539, 32682), (560, 32709), (590, 32745), (592, 32748), (609, 32784), (675, 32889), (682, 32904), (717, 32946), (727, 32991), (730, 33000), (740, 33039), (745, 33057), (755, 33078), (762, 33093), (766, 33102), (768,

33105),

Gene: C3_31 Start: 26345, Stop: 25275, Start Num: 188

Candidate Starts for C3_31:

(Start: 110 @26453 has 1 MA's), (Start: 152 @26399 has 119 MA's), (Start: 188 @26345 has 14 MA's), (Start: 218 @26276 has 6 MA's), (337, 26075), (350, 26048), (393, 26012), (423, 25958), (424, 25955), (438, 25928), (464, 25877), (486, 25844), (491, 25832), (503, 25814), (540, 25742), (551, 25724), (559, 25712), (592, 25673), (609, 25637), (613, 25631), (622, 25610), (629, 25595), (639, 25577), (657, 25550), (718, 25439), (731, 25391), (732, 25388), (738, 25361), (740, 25355), (743, 25343), (761, 25304),

Gene: CREW_41 Start: 32595, Stop: 33683, Start Num: 163

Candidate Starts for CREW_41:

(16, 31992), (24, 32169), (41, 32334), (51, 32373), (Start: 163 @32595 has 283 MA's), (190, 32646), (Start: 218 @32697 has 6 MA's), (231, 32721), (253, 32757), (337, 32895), (429, 33033), (465, 33102), (466, 33105), (556, 33255), (618, 33360), (715, 33495),

Gene: Cafasso_35 Start: 30421, Stop: 29294, Start Num: 147

Candidate Starts for Cafasso_35:

(13, 30901), (Start: 147 @30421 has 63 MA's), (Start: 182 @30367 has 4 MA's), (Start: 222 @30262 has 1 MA's), (322, 30091), (372, 30001), (396, 29965), (443, 29851), (496, 29812), (512, 29788), (573, 29692), (643, 29560), (666, 29515), (719, 29443), (761, 29317),

Gene: Calvinny_36 Start: 26589, Stop: 25498, Start Num: 188

Candidate Starts for Calvinny_36:

(Start: 103 @26706 has 3 MA's), (Start: 152 @26643 has 119 MA's), (Start: 188 @26589 has 14 MA's), (Start: 218 @26520 has 6 MA's), (346, 26301), (350, 26292), (393, 26256), (424, 26199), (464, 26121), (486, 26088), (540, 25986), (551, 25968), (559, 25956), (609, 25881), (613, 25875), (622, 25854), (629, 25839), (639, 25821), (655, 25797), (730, 25638), (731, 25635), (738, 25605), (740, 25599), (743, 25587), (761, 25548),

Gene: Camara_36 Start: 23916, Stop: 22723, Start Num: 147

Candidate Starts for Camara_36:

(Start: 147 @23916 has 63 MA's), (379, 23487), (408, 23430), (417, 23406), (555, 23178), (624, 23052), (630, 23040), (640, 23019), (722, 22881), (743, 22800), (766, 22752),

Gene: Capricorn_41 Start: 32595, Stop: 33683, Start Num: 163

Candidate Starts for Capricorn_41:

(14, 31974), (16, 31992), (24, 32169), (41, 32334), (51, 32373), (Start: 163 @32595 has 283 MA's), (190, 32646), (Start: 218 @32697 has 6 MA's), (231, 32721), (253, 32757), (337, 32895), (429, 33033), (465, 33102), (466, 33105), (556, 33255), (618, 33360), (715, 33495),

Gene: CaptainTrips_41 Start: 32330, Stop: 33448, Start Num: 163

Candidate Starts for CaptainTrips_41:

(Start: 163 @32330 has 283 MA's), (168, 32339), (253, 32501), (284, 32549), (346, 32666), (371, 32702), (382, 32711), (438, 32816), (468, 32885), (491, 32924), (501, 32942), (504, 32945), (512, 32957), (513, 32960), (519, 32972), (539, 33011), (543, 33017), (560, 33038), (590, 33074), (592, 33077), (609, 33113), (613, 33119), (618, 33131), (620, 33134), (625, 33149), (675, 33218), (682, 33233), (708, 33251), (717, 33275), (727, 33320), (730, 33329), (740, 33368), (745, 33386), (755, 33407), (762, 33422), (766, 33431), (768, 33434),

Gene: Caraxes_33 Start: 24997, Stop: 23882, Start Num: 157

Candidate Starts for Caraxes_33:

(Start: 157 @24997 has 6 MA's), (Start: 188 @24949 has 14 MA's), (205, 24916), (Start: 218 @24880 has 6 MA's), (243, 24835), (343, 24667), (350, 24652), (393, 24616), (418, 24574), (423, 24562), (424, 24559), (470, 24472), (477, 24457), (551, 24328), (559, 24316), (582, 24295), (592, 24277), (609, 24241), (622, 24214), (629, 24199), (639, 24181), (657, 24154), (718, 24043), (731, 23995), (738, 23965), (740, 23959), (743, 23947), (761, 23908),

Gene: CaseJules_42 Start: 32792, Stop: 33880, Start Num: 163

Candidate Starts for CaseJules_42:

(Start: 163 @32792 has 283 MA's), (Start: 218 @32894 has 6 MA's), (231, 32918), (253, 32954), (337, 33092), (429, 33230), (465, 33299), (466, 33302), (556, 33452), (618, 33557), (715, 33692),

Gene: Cashline_38 Start: 32110, Stop: 33216, Start Num: 163

Candidate Starts for Cashline_38:

(119, 32053), (Start: 163 @32110 has 283 MA's), (190, 32161), (250, 32266), (281, 32305), (429, 32545), (465, 32614), (466, 32617), (470, 32623), (486, 32647), (513, 32698), (519, 32710), (654, 32938), (701, 32998), (723, 33073), (730, 33103), (766, 33205),

Gene: Catfish_37 Start: 28481, Stop: 27369, Start Num: 174

Candidate Starts for Catfish_37:

(Start: 174 @28481 has 12 MA's), (196, 28439), (257, 28313), (375, 28112), (405, 28055), (415, 28028), (467, 27932), (488, 27899), (491, 27890), (559, 27782), (631, 27653), (730, 27467), (740, 27428), (756, 27389),

Gene: Centaur_35 Start: 26808, Stop: 25675, Start Num: 152

Candidate Starts for Centaur_35:

(Start: 152 @26808 has 119 MA's), (Start: 188 @26754 has 14 MA's), (Start: 218 @26685 has 6 MA's), (243, 26640), (337, 26484), (350, 26457), (393, 26421), (424, 26364), (491, 26241), (503, 26223), (551, 26133), (559, 26121), (609, 26046), (613, 26040), (622, 26019), (629, 26004), (639, 25986), (657, 25959), (659, 25950), (718, 25848), (731, 25800), (738, 25770), (740, 25764), (743, 25752), (761, 25713),

Gene: Cerasum_38 Start: 27921, Stop: 29039, Start Num: 163

Candidate Starts for Cerasum_38:

(Start: 163 @27921 has 283 MA's), (253, 28092), (346, 28257), (371, 28293), (382, 28302), (424, 28383), (438, 28407), (468, 28476), (491, 28515), (501, 28533), (504, 28536), (512, 28548), (513, 28551), (519, 28563), (529, 28578), (539, 28602), (543, 28608), (560, 28629), (590, 28665), (592, 28668), (609, 28704), (613, 28710), (618, 28722), (620, 28725), (625, 28740), (675, 28809), (682, 28824), (717, 28866), (727, 28911), (730, 28920), (740, 28959), (745, 28977), (755, 28998), (762, 29013), (766, 29022), (768, 29025),

Gene: Cerulean_34 Start: 26519, Stop: 25467, Start Num: 195

Candidate Starts for Cerulean_34:

(Start: 116 @26633 has 3 MA's), (135, 26606), (Start: 152 @26588 has 119 MA's), (Start: 195 @26519 has 8 MA's), (Start: 218 @26465 has 6 MA's), (346, 26246), (350, 26237), (393, 26201), (418, 26159), (423, 26147), (424, 26144), (540, 25931), (551, 25913), (609, 25826), (613, 25820), (622, 25799), (629, 25784), (639, 25766), (718, 25628), (731, 25580), (738, 25550), (740, 25544), (743, 25532), (761, 25493),

Gene: ChampagnePapi_34 Start: 26518, Stop: 25466, Start Num: 195

Candidate Starts for ChampagnePapi_34:

(135, 26605), (Start: 152 @26587 has 119 MA's), (Start: 195 @26518 has 8 MA's), (Start: 218 @26464 has 6 MA's), (346, 26245), (350, 26236), (393, 26200), (418, 26158), (423, 26146), (424, 26143), (540, 25930), (551, 25912), (609, 25825), (613, 25819), (622, 25798), (629, 25783), (639, 25765), (718,

25627), (731, 25579), (738, 25549), (740, 25543), (743, 25531), (761, 25492),

Gene: Che12_36 Start: 25378, Stop: 24263, Start Num: 157

Candidate Starts for Che12_36:

(Start: 157 @25378 has 6 MA's), (205, 25297), (Start: 218 @25261 has 6 MA's), (243, 25216), (Start: 298 @25129 has 1 MA's), (343, 25048), (393, 24997), (418, 24955), (423, 24943), (424, 24940), (464, 24862), (529, 24754), (540, 24727), (551, 24709), (559, 24697), (582, 24676), (609, 24622), (622, 24595), (629, 24580), (639, 24562), (657, 24535), (718, 24424), (731, 24376), (738, 24346), (740, 24340), (743, 24328), (761, 24289),

Gene: Che9c_41 Start: 33550, Stop: 32348, Start Num: 156

Candidate Starts for Che9c_41:

(Start: 156 @33550 has 17 MA's), (198, 33478), (199, 33475), (206, 33457), (211, 33445), (274, 33340), (334, 33229), (335, 33226), (364, 33163), (408, 33082), (432, 33028), (476, 32953), (522, 32878), (555, 32824), (558, 32818), (660, 32641), (662, 32638), (663, 32635), (677, 32614), (697, 32578), (723, 32512), (726, 32497), (744, 32431),

Gene: CheeseTouch_54 Start: 30887, Stop: 31984, Start Num: 163

Candidate Starts for CheeseTouch_54:

(57, 30722), (61, 30731), (131, 30857), (Start: 163 @30887 has 283 MA's), (190, 30938), (232, 31016), (250, 31043), (303, 31130), (343, 31196), (346, 31202), (423, 31307), (424, 31310), (429, 31322), (491, 31439), (504, 31460), (508, 31466), (519, 31487), (560, 31559), (613, 31643), (692, 31766), (720, 31817), (723, 31826), (729, 31853), (768, 31961), (776, 31976),

Gene: CheetoDust_40 Start: 31967, Stop: 33055, Start Num: 163

Candidate Starts for CheetoDust_40:

(51, 31745), (Start: 163 @31967 has 283 MA's), (190, 32018), (Start: 218 @32069 has 6 MA's), (231, 32093), (253, 32129), (337, 32267), (371, 32321), (429, 32405), (465, 32474), (466, 32477), (556, 32627), (618, 32732), (675, 32819), (715, 32867),

Gene: Chickaboom_35 Start: 24249, Stop: 23065, Start Num: 147

Candidate Starts for Chickaboom_35:

(Start: 147 @24249 has 63 MA's), (184, 24192), (263, 24030), (271, 24021), (341, 23895), (370, 23832), (379, 23820), (390, 23805), (429, 23715), (501, 23604), (555, 23511), (620, 23397), (624, 23385), (633, 23367), (719, 23223), (722, 23214),

Gene: ChipMunk_36 Start: 28148, Stop: 27003, Start Num: 123

Candidate Starts for ChipMunk_36:

(Start: 123 @28148 has 7 MA's), (Start: 138 @28130 has 7 MA's), (Start: 195 @28049 has 8 MA's), (Start: 218 @28001 has 6 MA's), (243, 27956), (337, 27800), (346, 27782), (350, 27773), (393, 27737), (418, 27695), (424, 27680), (429, 27668), (464, 27602), (486, 27569), (491, 27557), (503, 27539), (551, 27449), (559, 27437), (609, 27362), (613, 27356), (622, 27335), (629, 27320), (639, 27302), (657, 27275), (659, 27266), (718, 27164), (731, 27116), (732, 27113), (738, 27086), (740, 27080), (743, 27068), (761, 27029),

Gene: Chiqui_32 Start: 26616, Stop: 25483, Start Num: 140

Candidate Starts for Chiqui_32:

(Start: 140 @26616 has 3 MA's), (Start: 195 @26535 has 8 MA's), (Start: 218 @26481 has 6 MA's), (243, 26436), (348, 26259), (350, 26253), (393, 26217), (424, 26160), (464, 26082), (551, 25929), (559, 25917), (609, 25842), (613, 25836), (622, 25815), (629, 25800), (639, 25782), (655, 25758), (731, 25596), (738, 25566), (740, 25560), (743, 25548), (761, 25509),

Gene: Chop_39 Start: 31803, Stop: 30532, Start Num: 147

Candidate Starts for Chop_39:

(Start: 147 @31803 has 63 MA's), (160, 31788), (206, 31686), (Start: 222 @31644 has 1 MA's), (230, 31632), (Start: 275 @31557 has 15 MA's), (312, 31482), (317, 31473), (328, 31455), (387, 31356), (390, 31353), (429, 31263), (511, 31158), (557, 31062), (560, 31056), (646, 30894), (716, 30753), (727, 30708), (741, 30657), (743, 30648), (748, 30633), (757, 30621), (762, 30609), (786, 30570),

Gene: Chris_43 Start: 33288, Stop: 34373, Start Num: 163

Candidate Starts for Chris_43:

(Start: 163 @33288 has 283 MA's), (253, 33450), (287, 33495), (337, 33588), (358, 33630), (429, 33726), (438, 33741), (465, 33795), (466, 33798), (470, 33804), (491, 33840), (556, 33948), (618, 34053), (675, 34140), (710, 34176), (715, 34188), (742, 34296), (762, 34344),

Gene: ChuckDuck_39 Start: 26485, Stop: 27627, Start Num: 163

Candidate Starts for ChuckDuck_39:

(25, 26068), (28, 26098), (34, 26158), (36, 26188), (55, 26278), (Start: 65 @26314 has 1 MA's), (94, 26386), (99, 26395), (Start: 163 @26485 has 283 MA's), (361, 26839), (368, 26845), (386, 26863), (438, 26971), (465, 27031), (519, 27124), (592, 27244), (614, 27292), (630, 27322), (682, 27418), (730, 27526), (753, 27601),

Gene: ChuckDuck_35 Start: 24394, Stop: 25314, Start Num: 279

Candidate Starts for ChuckDuck_35:

(Start: 279 @24394 has 58 MA's), (365, 24550), (380, 24568), (387, 24580), (451, 24727), (464, 24736), (490, 24775), (535, 24844), (537, 24850), (558, 24883), (595, 24925), (618, 24976), (622, 24985), (720, 25156), (726, 25180), (730, 25195), (732, 25201), (761, 25282), (762, 25285),

Gene: Chymera_32 Start: 24210, Stop: 22924, Start Num: 163

Candidate Starts for Chymera_32:

(Start: 163 @24210 has 283 MA's), (168, 24201), (190, 24156), (326, 23862), (389, 23760), (404, 23730), (406, 23727), (479, 23547), (505, 23502), (507, 23499), (592, 23358), (596, 23352), (618, 23304), (730, 23067), (746, 23007), (759, 22983),

Gene: Clap_37 Start: 27875, Stop: 28957, Start Num: 159

Candidate Starts for Clap_37:

(Start: 83 @27758 has 2 MA's), (Start: 86 @27764 has 6 MA's), (Start: 159 @27875 has 52 MA's), (190, 27929), (261, 28049), (423, 28304), (438, 28334), (466, 28394), (506, 28460), (519, 28484), (561, 28553), (590, 28589), (723, 28814), (729, 28841), (766, 28946),

Gene: Clark_36 Start: 27206, Stop: 28129, Start Num: 275

Candidate Starts for Clark_36:

(Start: 275 @27206 has 15 MA's), (Start: 279 @27212 has 58 MA's), (393, 27401), (396, 27407), (438, 27509), (448, 27533), (491, 27593), (533, 27650), (535, 27656), (537, 27662), (612, 27776), (615, 27782), (621, 27794), (662, 27869), (675, 27893), (676, 27896), (711, 27932), (714, 27938), (721, 27971), (742, 28052),

Gene: Clark_39 Start: 28996, Stop: 30123, Start Num: 163

Candidate Starts for Clark_39:

(129, 28957), (Start: 163 @28996 has 283 MA's), (190, 29050), (250, 29173), (276, 29206), (321, 29296), (343, 29329), (465, 29524), (466, 29527), (491, 29569), (513, 29605), (700, 29902), (723, 29980), (729, 30007), (734, 30022), (740, 30049), (766, 30112),

Gene: Clifton_35 Start: 27555, Stop: 28673, Start Num: 163

Candidate Starts for Clifton_35:

(Start: 163 @27555 has 283 MA's), (168, 27564), (253, 27726), (346, 27891), (371, 27927), (382, 27936), (424, 28017), (438, 28041), (468, 28110), (491, 28149), (501, 28167), (504, 28170), (512, 28182), (513, 28185), (519, 28197), (529, 28212), (539, 28236), (543, 28242), (560, 28263), (590, 28299), (592, 28302), (609, 28338), (613, 28344), (620, 28359), (625, 28374), (675, 28443), (682, 28458), (717, 28500), (727, 28545), (730, 28554), (740, 28593), (745, 28611), (755, 28632), (762, 28647), (766, 28656), (768, 28659),

Gene: Clipper_45 Start: 33113, Stop: 34201, Start Num: 163

Candidate Starts for Clipper_45:

(Start: 163 @33113 has 283 MA's), (190, 33164), (Start: 218 @33215 has 6 MA's), (231, 33239), (253, 33275), (337, 33413), (429, 33551), (465, 33620), (466, 33623), (556, 33773), (618, 33878), (715, 34013),

Gene: Coco12_40 Start: 31978, Stop: 33096, Start Num: 163

Candidate Starts for Coco12_40:

(Start: 163 @31978 has 283 MA's), (253, 32149), (346, 32314), (371, 32350), (382, 32359), (424, 32440), (438, 32464), (468, 32533), (491, 32572), (501, 32590), (504, 32593), (512, 32605), (513, 32608), (519, 32620), (529, 32635), (539, 32659), (543, 32665), (560, 32686), (590, 32722), (592, 32725), (609, 32761), (613, 32767), (618, 32779), (620, 32782), (625, 32797), (675, 32866), (682, 32881), (717, 32923), (727, 32968), (730, 32977), (740, 33016), (745, 33034), (755, 33055), (762, 33070), (766, 33079), (768, 33082),

Gene: Colbster_36 Start: 26790, Stop: 25645, Start Num: 152

Candidate Starts for Colbster_36:

(Start: 152 @26790 has 119 MA's), (Start: 180 @26751 has 10 MA's), (205, 26703), (Start: 218 @26667 has 6 MA's), (243, 26622), (337, 26466), (350, 26439), (393, 26403), (424, 26346), (464, 26268), (477, 26244), (503, 26205), (540, 26133), (546, 26121), (551, 26115), (559, 26103), (609, 26028), (613, 26022), (622, 26001), (629, 25986), (639, 25968), (655, 25944), (718, 25830), (730, 25785), (731, 25782), (734, 25773), (738, 25752), (740, 25746), (743, 25734), (761, 25695),

Gene: Cole_34 Start: 26120, Stop: 27040, Start Num: 279

Candidate Starts for Cole_34:

(Start: 254 @26078 has 1 MA's), (Start: 279 @26120 has 58 MA's), (365, 26276), (370, 26282), (380, 26294), (387, 26306), (451, 26453), (464, 26462), (490, 26501), (530, 26558), (535, 26570), (537, 26576), (558, 26609), (579, 26633), (595, 26651), (600, 26663), (618, 26702), (714, 26852), (720, 26882), (726, 26906), (732, 26927), (761, 27008), (762, 27011),

Gene: Colin_37 Start: 27841, Stop: 26711, Start Num: 156

Candidate Starts for Colin_37:

(Start: 156 @27841 has 17 MA's), (Start: 218 @27721 has 6 MA's), (243, 27676), (346, 27502), (350, 27493), (393, 27457), (423, 27403), (424, 27400), (464, 27322), (486, 27289), (491, 27277), (551, 27169), (559, 27157), (609, 27082), (622, 27055), (629, 27040), (639, 27022), (657, 26995), (731, 26836), (738, 26806), (740, 26800), (743, 26788), (761, 26749),

Gene: Colleen_32 Start: 30114, Stop: 28903, Start Num: 142

Candidate Starts for Colleen_32:

(Start: 142 @30114 has 4 MA's), (231, 29940), (304, 29799), (395, 29640), (467, 29490), (517, 29400), (663, 29136), (685, 29100), (688, 29094), (756, 28929), (763, 28914), (765, 28911),

Gene: Colusalem_39 Start: 23996, Stop: 22809, Start Num: 147

Candidate Starts for Colusalem_39:

(87, 24086), (Start: 147 @23996 has 63 MA's), (341, 23642), (379, 23567), (624, 23132), (714, 22997),

Gene: Commander_33 Start: 26250, Stop: 25129, Start Num: 152

Candidate Starts for Commander_33:

(Start: 116 @26295 has 3 MA's), (135, 26268), (Start: 152 @26250 has 119 MA's), (Start: 195 @26181 has 8 MA's), (Start: 218 @26127 has 6 MA's), (346, 25908), (350, 25899), (393, 25863), (418, 25821), (423, 25809), (424, 25806), (464, 25728), (540, 25593), (551, 25575), (609, 25488), (622, 25461), (629, 25446), (639, 25428), (718, 25290), (731, 25242), (738, 25212), (740, 25206), (743, 25194), (761, 25155),

Gene: Confidence_37 Start: 29321, Stop: 30403, Start Num: 159

Candidate Starts for Confidence_37:

(Start: 159 @29321 has 52 MA's), (Start: 222 @29438 has 1 MA's), (284, 29531), (423, 29753), (440, 29789), (466, 29843), (508, 29912), (723, 30260), (729, 30287), (738, 30323), (766, 30392),

Gene: Confidence_36 Start: 28133, Stop: 29050, Start Num: 279

Candidate Starts for Confidence_36:

(Start: 275 @28127 has 15 MA's), (Start: 279 @28133 has 58 MA's), (Start: 298 @28157 has 1 MA's), (348, 28253), (393, 28322), (396, 28328), (447, 28451), (491, 28514), (531, 28568), (535, 28577), (546, 28598), (553, 28607), (577, 28637), (662, 28790), (676, 28817), (711, 28853),

Gene: Constance_34 Start: 24866, Stop: 25786, Start Num: 279

Candidate Starts for Constance_34:

(Start: 279 @24866 has 58 MA's), (365, 25022), (380, 25040), (387, 25052), (451, 25199), (464, 25208), (490, 25247), (535, 25316), (537, 25322), (558, 25355), (595, 25397), (618, 25448), (720, 25628), (726, 25652), (730, 25667), (732, 25673), (761, 25754), (762, 25757),

Gene: Constance_38 Start: 26814, Stop: 27956, Start Num: 163

Candidate Starts for Constance_38:

(75, 26667), (81, 26679), (84, 26688), (97, 26721), (Start: 126 @26769 has 1 MA's), (137, 26784), (Start: 163 @26814 has 283 MA's), (368, 27174), (386, 27192), (438, 27300), (465, 27360), (519, 27453), (592, 27573), (614, 27621), (630, 27651), (682, 27747), (730, 27855), (753, 27930),

Gene: Constella_68 Start: 47200, Stop: 48429, Start Num: 85

Candidate Starts for Constella_68:

(Start: 85 @47200 has 29 MA's), (Start: 91 @47218 has 1 MA's), (Start: 112 @47257 has 1 MA's), (Start: 254 @47494 has 1 MA's), (318, 47602), (418, 47722), (419, 47725), (423, 47734), (429, 47749), (447, 47788), (491, 47866), (562, 47983), (575, 47986), (582, 47995), (607, 48046), (609, 48049), (619, 48067), (672, 48163), (709, 48220), (737, 48340), (738, 48343), (745, 48367), (757, 48391), (759, 48394),

Gene: CookieBear_37 Start: 24572, Stop: 25489, Start Num: 279

Candidate Starts for CookieBear_37:

(208, 24443), (211, 24449), (Start: 279 @24572 has 58 MA's), (365, 24728), (380, 24743), (387, 24755), (451, 24902), (464, 24911), (490, 24950), (521, 24995), (535, 25019), (537, 25025), (558, 25058), (595, 25100), (599, 25109), (618, 25151), (662, 25235), (726, 25355), (730, 25370),

Gene: CookieBear_41 Start: 27769, Stop: 26630, Start Num: 163

Candidate Starts for CookieBear_41:

(Start: 163 @27769 has 283 MA's), (190, 27718), (289, 27550), (299, 27532), (388, 27400), (418, 27337), (424, 27322), (429, 27310), (433, 27304), (465, 27235), (470, 27226), (506, 27166), (557, 27076), (620, 26971), (630, 26950), (645, 26923), (717, 26800), (723, 26776), (726, 26761), (746, 26686), (761, 26656),

Gene: Coral_36 Start: 23868, Stop: 22681, Start Num: 147

Candidate Starts for Coral_36:

(87, 23958), (Start: 147 @23868 has 63 MA's), (379, 23439), (624, 23004), (714, 22869),

Gene: Cornucopia_45 Start: 32843, Stop: 33970, Start Num: 163

Candidate Starts for Cornucopia_45:

(Start: 91 @32741 has 1 MA's), (Start: 123 @32798 has 7 MA's), (Start: 163 @32843 has 283 MA's), (168, 32852), (253, 33014), (281, 33065), (289, 33083), (310, 33128), (371, 33224), (382, 33233), (424, 33314), (438, 33338), (468, 33407), (491, 33446), (504, 33467), (512, 33479), (513, 33482), (519, 33494), (529, 33509), (539, 33533), (560, 33560), (590, 33596), (592, 33599), (609, 33635), (625, 33671), (675, 33740), (682, 33755), (708, 33773), (717, 33797), (727, 33842), (730, 33851), (734, 33863), (740, 33890), (745, 33908), (755, 33929), (762, 33944), (766, 33953), (768, 33956),

Gene: Cote_38 Start: 24345, Stop: 23158, Start Num: 147

Candidate Starts for Cote_38:

(87, 24435), (Start: 147 @24345 has 63 MA's), (379, 23916), (624, 23481), (714, 23346),

Gene: Courthouse_82 Start: 49663, Stop: 50937, Start Num: 69

Candidate Starts for Courthouse_82:

(54, 49606), (Start: 65 @49648 has 1 MA's), (Start: 69 @49663 has 10 MA's), (72, 49666), (Start: 91 @49711 has 1 MA's), (Start: 112 @49750 has 1 MA's), (342, 50131), (418, 50215), (423, 50227), (424, 50230), (491, 50359), (575, 50479), (609, 50542), (619, 50560), (631, 50584), (672, 50656), (737, 50833), (738, 50836), (740, 50842), (745, 50860), (752, 50875), (757, 50884), (759, 50887), (779, 50932),

Gene: Crater_49 Start: 32565, Stop: 33662, Start Num: 163

Candidate Starts for Crater_49:

(60, 32385), (75, 32424), (Start: 163 @32565 has 283 MA's), (190, 32616), (232, 32694), (250, 32721), (284, 32766), (301, 32799), (303, 32808), (423, 32985), (424, 32988), (470, 33081), (491, 33117), (512, 33150), (513, 33153), (519, 33165), (622, 33330), (641, 33360), (692, 33432), (717, 33468), (723, 33492), (729, 33519), (742, 33567), (745, 33579), (768, 33627),

Gene: CrimD_41 Start: 32723, Stop: 33811, Start Num: 163

Candidate Starts for CrimD_41:

(Start: 163 @32723 has 283 MA's), (Start: 218 @32825 has 6 MA's), (231, 32849), (253, 32885), (337, 33023), (371, 33077), (429, 33161), (465, 33230), (466, 33233), (556, 33383), (603, 33461), (618, 33488), (715, 33623), (757, 33767),

Gene: Crucio_34 Start: 26336, Stop: 25269, Start Num: 188

Candidate Starts for Crucio_34:

(Start: 103 @26453 has 3 MA's), (Start: 152 @26390 has 119 MA's), (Start: 188 @26336 has 14 MA's), (Start: 218 @26267 has 6 MA's), (243, 26222), (316, 26096), (346, 26048), (350, 26039), (393, 26003), (423, 25949), (424, 25946), (491, 25823), (503, 25805), (519, 25775), (546, 25721), (551, 25715), (559, 25703), (609, 25628), (613, 25622), (622, 25601), (629, 25586), (639, 25568), (657, 25541), (718, 25430), (731, 25382), (738, 25352), (740, 25346), (743, 25334), (761, 25295),

Gene: Cullens_36 Start: 26789, Stop: 25644, Start Num: 152

Candidate Starts for Cullens_36:

(Start: 152 @26789 has 119 MA's), (Start: 180 @26750 has 10 MA's), (205, 26702), (Start: 218 @26666 has 6 MA's), (243, 26621), (337, 26465), (350, 26438), (393, 26402), (424, 26345), (464, 26267), (477, 26243), (503, 26204), (540, 26132), (546, 26120), (551, 26114), (559, 26102), (609, 26027), (613, 26021), (622, 26000), (629, 25985), (639, 25967), (655, 25943), (718, 25829), (730, 25784), (731, 25781), (734, 25772), (738, 25751), (740, 25745), (743, 25733), (761, 25694),

Gene: Culver_60 Start: 37716, Stop: 38639, Start Num: 279

Candidate Starts for Culver_60:

(Start: 275 @37710 has 15 MA's), (Start: 279 @37716 has 58 MA's), (Start: 298 @37746 has 1 MA's), (344, 37836), (387, 37902), (393, 37911), (396, 37917), (420, 37980), (438, 38019), (483, 38088), (521, 38142), (533, 38160), (534, 38163), (535, 38166), (546, 38187), (600, 38259), (610, 38283), (612, 38286), (615, 38292), (621, 38304), (646, 38352), (647, 38355), (662, 38379), (675, 38403), (711, 38442), (730, 38517), (740, 38556),

Gene: Cynthia_37 Start: 27764, Stop: 28957, Start Num: 86

Candidate Starts for Cynthia_37:

(Start: 83 @27758 has 2 MA's), (Start: 86 @27764 has 6 MA's), (Start: 159 @27875 has 52 MA's), (190, 27929), (261, 28049), (423, 28304), (438, 28334), (466, 28394), (506, 28460), (519, 28484), (590, 28589), (723, 28814), (729, 28841), (766, 28946),

Gene: D29_33 Start: 26474, Stop: 25350, Start Num: 152

Candidate Starts for D29_33:

(Start: 152 @26474 has 119 MA's), (Start: 188 @26420 has 14 MA's), (Start: 218 @26351 has 6 MA's), (337, 26150), (339, 26147), (350, 26123), (393, 26087), (424, 26030), (438, 26003), (464, 25952), (486, 25919), (491, 25907), (503, 25889), (540, 25817), (551, 25799), (559, 25787), (609, 25712), (613, 25706), (622, 25685), (629, 25670), (639, 25652), (657, 25625), (718, 25514), (731, 25466), (732, 25463), (738, 25436), (740, 25430), (743, 25418), (761, 25379),

Gene: D32_37 Start: 26474, Stop: 25350, Start Num: 152

Candidate Starts for D32_37:

(Start: 152 @26474 has 119 MA's), (Start: 188 @26420 has 14 MA's), (Start: 218 @26351 has 6 MA's), (337, 26150), (339, 26147), (350, 26123), (393, 26087), (424, 26030), (438, 26003), (464, 25952), (486, 25919), (491, 25907), (503, 25889), (540, 25817), (551, 25799), (559, 25787), (609, 25712), (613, 25706), (622, 25685), (629, 25670), (639, 25652), (657, 25625), (718, 25514), (731, 25466), (732, 25463), (738, 25436), (740, 25430), (743, 25418), (761, 25379),

Gene: DBQu4n_37 Start: 26474, Stop: 25350, Start Num: 152

Candidate Starts for DBQu4n_37:

(Start: 152 @26474 has 119 MA's), (Start: 188 @26420 has 14 MA's), (Start: 218 @26351 has 6 MA's), (337, 26150), (350, 26123), (393, 26087), (424, 26030), (438, 26003), (464, 25952), (486, 25919), (491, 25907), (503, 25889), (540, 25817), (551, 25799), (559, 25787), (592, 25748), (609, 25712), (613, 25706), (622, 25685), (629, 25670), (639, 25652), (657, 25625), (718, 25514), (731, 25466), (732, 25463), (738, 25436), (740, 25430), (743, 25418), (761, 25379),

Gene: DLane_41 Start: 32255, Stop: 33373, Start Num: 163

Candidate Starts for DLane_41:

(Start: 163 @32255 has 283 MA's), (253, 32426), (346, 32591), (371, 32627), (382, 32636), (468, 32810), (491, 32849), (504, 32870), (512, 32882), (513, 32885), (519, 32897), (539, 32936), (543, 32942), (560, 32963), (590, 32999), (592, 33002), (609, 33038), (613, 33044), (620, 33059), (675, 33143), (682, 33158), (717, 33200), (727, 33245), (730, 33254), (740, 33293), (745, 33311), (755, 33332), (762, 33347), (766, 33356), (768, 33359),

Gene: DRBy19_43 Start: 32003, Stop: 33121, Start Num: 163

Candidate Starts for DRBy19_43:

(Start: 163 @32003 has 283 MA's), (232, 32141), (253, 32174), (284, 32222), (346, 32339), (371, 32375), (382, 32384), (438, 32489), (468, 32558), (504, 32618), (512, 32630), (513, 32633), (519, 32645), (529, 32660), (539, 32684), (543, 32690), (560, 32711), (590, 32747), (592, 32750), (609, 32786), (613, 32792), (618, 32804), (620, 32807), (675, 32891), (682, 32906), (717, 32948), (727, 32993), (730, 33002), (740, 33041), (745, 33059), (755, 33080), (762, 33095), (766, 33104), (768,

33107),

Gene: DaHudson_36 Start: 26782, Stop: 25637, Start Num: 152

Candidate Starts for DaHudson_36:

(Start: 152 @26782 has 119 MA's), (Start: 180 @26743 has 10 MA's), (Start: 218 @26659 has 6 MA's), (243, 26614), (337, 26458), (350, 26431), (393, 26395), (424, 26338), (464, 26260), (477, 26236), (503, 26197), (540, 26125), (546, 26113), (551, 26107), (559, 26095), (609, 26020), (613, 26014), (622, 25993), (629, 25978), (639, 25960), (655, 25936), (718, 25822), (730, 25777), (731, 25774), (734, 25765), (738, 25744), (740, 25738), (743, 25726), (761, 25687),

Gene: Daegal_30 Start: 26772, Stop: 25579, Start Num: 171

Candidate Starts for Daegal_30:

(Start: 145 @26814 has 2 MA's), (Start: 171 @26772 has 20 MA's), (205, 26706), (244, 26625), (263, 26586), (274, 26571), (277, 26565), (282, 26553), (297, 26526), (314, 26493), (350, 26436), (362, 26403), (364, 26400), (396, 26352), (410, 26310), (411, 26307), (422, 26283), (431, 26268), (441, 26244), (449, 26229), (476, 26190), (487, 26178), (507, 26139), (530, 26100), (558, 26052), (560, 26049), (609, 25977), (613, 25971), (618, 25959), (620, 25956), (622, 25950), (649, 25896), (658, 25878), (660, 25875), (677, 25848), (691, 25821), (715, 25779), (721, 25752), (723, 25746), (736, 25689), (764, 25626), (766, 25623),

Gene: Dallas_80 Start: 51984, Stop: 53213, Start Num: 85

Candidate Starts for Dallas_80:

(Start: 85 @51984 has 29 MA's), (Start: 91 @52002 has 1 MA's), (Start: 112 @52041 has 1 MA's), (Start: 254 @52278 has 1 MA's), (318, 52386), (418, 52506), (419, 52509), (423, 52518), (429, 52533), (447, 52572), (491, 52650), (556, 52755), (562, 52767), (575, 52770), (582, 52779), (607, 52830), (609, 52833), (619, 52851), (672, 52947), (709, 53004), (737, 53124), (738, 53127), (745, 53151), (757, 53175), (759, 53178),

Gene: Dalmatian_35 Start: 26758, Stop: 25637, Start Num: 152

Candidate Starts for Dalmatian_35:

(Start: 103 @26821 has 3 MA's), (Start: 152 @26758 has 119 MA's), (Start: 188 @26704 has 14 MA's), (Start: 218 @26635 has 6 MA's), (243, 26590), (337, 26434), (393, 26371), (429, 26302), (448, 26260), (464, 26236), (503, 26173), (551, 26083), (559, 26071), (609, 25996), (613, 25990), (622, 25969), (629, 25954), (639, 25936), (657, 25909), (718, 25798), (730, 25753), (731, 25750), (732, 25747), (738, 25720), (740, 25714), (743, 25702), (761, 25663),

Gene: Dalmuri_41 Start: 32595, Stop: 33683, Start Num: 163

Candidate Starts for Dalmuri_41:

(16, 31992), (24, 32169), (41, 32334), (51, 32373), (Start: 163 @32595 has 283 MA's), (190, 32646), (Start: 218 @32697 has 6 MA's), (231, 32721), (253, 32757), (337, 32895), (429, 33033), (465, 33102), (466, 33105), (556, 33255), (618, 33360), (715, 33495),

Gene: Daob_38 Start: 24353, Stop: 23166, Start Num: 147

Candidate Starts for Daob_38:

(87, 24443), (Start: 147 @24353 has 63 MA's), (341, 23999), (379, 23924), (624, 23489), (714, 23354),

Gene: Dartin_43 Start: 33014, Stop: 34105, Start Num: 163

Candidate Starts for Dartin_43:

(11, 32333), (21, 32477), (33, 32681), (48, 32780), (50, 32789), (56, 32816), (71, 32864), (Start: 163 @33014 has 283 MA's), (190, 33065), (231, 33140), (253, 33176), (319, 33290), (337, 33314), (371, 33368), (429, 33452), (444, 33485), (465, 33521), (466, 33524), (491, 33566), (539, 33653), (556, 33674), (618, 33782), (659, 33842), (710, 33905), (715, 33917), (742, 34025), (757, 34061),

Gene: DeadP_46 Start: 32604, Stop: 33707, Start Num: 163

Candidate Starts for DeadP_46:

(Start: 163 @32604 has 283 MA's), (190, 32652), (232, 32733), (247, 32760), (371, 32973), (396, 32997), (424, 33045), (465, 33126), (506, 33195), (512, 33204), (529, 33234), (539, 33258), (556, 33279), (603, 33357), (613, 33372), (654, 33432), (675, 33471), (682, 33486), (705, 33510), (717, 33537), (723, 33561), (727, 33582), (730, 33591), (742, 33636), (745, 33648),

Gene: Deby_41 Start: 32726, Stop: 33811, Start Num: 163

Candidate Starts for Deby_41:

(Start: 163 @32726 has 283 MA's), (Start: 218 @32828 has 6 MA's), (221, 32837), (231, 32852), (253, 32888), (337, 33026), (371, 33080), (429, 33164), (465, 33233), (466, 33236), (556, 33386), (618, 33491), (675, 33578), (715, 33626), (757, 33770),

Gene: DeepSoil15_29 Start: 26478, Stop: 25285, Start Num: 171

Candidate Starts for DeepSoil15_29:

(Start: 145 @26520 has 2 MA's), (Start: 171 @26478 has 20 MA's), (205, 26412), (244, 26331), (263, 26292), (274, 26277), (277, 26271), (282, 26259), (297, 26232), (314, 26199), (350, 26142), (362, 26109), (364, 26106), (396, 26058), (410, 26016), (411, 26013), (422, 25989), (431, 25974), (441, 25950), (449, 25935), (476, 25896), (487, 25884), (507, 25845), (530, 25806), (558, 25758), (560, 25755), (609, 25683), (613, 25677), (618, 25665), (620, 25662), (622, 25656), (649, 25602), (658, 25584), (660, 25581), (677, 25554), (686, 25536), (689, 25530), (691, 25527), (715, 25485), (721, 25458), (723, 25452), (736, 25395), (764, 25332), (766, 25329),

Gene: DelRio_40 Start: 32511, Stop: 31240, Start Num: 147

Candidate Starts for DelRio_40:

(128, 32535), (Start: 147 @32511 has 63 MA's), (160, 32496), (206, 32394), (Start: 222 @32352 has 1 MA's), (230, 32340), (Start: 275 @32265 has 15 MA's), (312, 32190), (317, 32181), (328, 32163), (387, 32064), (390, 32061), (429, 31971), (504, 31875), (511, 31866), (557, 31770), (573, 31746), (646, 31602), (716, 31461), (727, 31416), (741, 31365), (743, 31356), (748, 31341), (757, 31329), (762, 31317), (786, 31278),

Gene: Denise_35 Start: 27272, Stop: 28351, Start Num: 163

Candidate Starts for Denise_35:

(Start: 163 @27272 has 283 MA's), (250, 27428), (357, 27608), (491, 27821), (514, 27860), (519, 27869), (613, 28025), (692, 28148), (723, 28208), (766, 28340),

Gene: Devera_45 Start: 33261, Stop: 34349, Start Num: 163

Candidate Starts for Devera_45:

(Start: 163 @33261 has 283 MA's), (Start: 218 @33363 has 6 MA's), (231, 33387), (253, 33423), (289, 33474), (319, 33537), (337, 33561), (371, 33615), (378, 33618), (429, 33699), (465, 33768), (466, 33771), (556, 33921), (603, 33999), (618, 34026), (715, 34161),

Gene: Dewey_29 Start: 26478, Stop: 25285, Start Num: 171

Candidate Starts for Dewey_29:

(Start: 145 @26520 has 2 MA's), (Start: 171 @26478 has 20 MA's), (205, 26412), (244, 26331), (263, 26292), (274, 26277), (277, 26271), (282, 26259), (297, 26232), (314, 26199), (350, 26142), (362, 26109), (364, 26106), (396, 26058), (410, 26016), (411, 26013), (422, 25989), (431, 25974), (441, 25950), (449, 25935), (476, 25896), (487, 25884), (507, 25845), (530, 25806), (558, 25758), (560, 25755), (609, 25683), (613, 25677), (618, 25665), (620, 25662), (622, 25656), (649, 25602), (658, 25584), (660, 25581), (677, 25554), (686, 25536), (689, 25530), (691, 25527), (715, 25485), (721, 25458), (723, 25452), (736, 25395), (764, 25332), (766, 25329),

Gene: Dieselweasel_36 Start: 26792, Stop: 25647, Start Num: 152

Candidate Starts for Dieselweasel_36:

(Start: 152 @26792 has 119 MA's), (Start: 180 @26753 has 10 MA's), (205, 26705), (Start: 218 @26669 has 6 MA's), (243, 26624), (337, 26468), (350, 26441), (393, 26405), (424, 26348), (464, 26270), (477, 26246), (503, 26207), (540, 26135), (546, 26123), (551, 26117), (559, 26105), (609, 26030), (613, 26024), (622, 26003), (629, 25988), (639, 25970), (655, 25946), (718, 25832), (730, 25787), (731, 25784), (734, 25775), (738, 25754), (740, 25748), (743, 25736), (761, 25697),

Gene: Dignity_35 Start: 26759, Stop: 25632, Start Num: 138

Candidate Starts for Dignity_35:

(Start: 123 @26777 has 7 MA's), (Start: 138 @26759 has 7 MA's), (Start: 195 @26675 has 8 MA's), (Start: 218 @26627 has 6 MA's), (243, 26582), (350, 26399), (393, 26363), (424, 26306), (429, 26294), (486, 26195), (491, 26183), (503, 26165), (551, 26075), (609, 25988), (613, 25982), (622, 25961), (629, 25946), (639, 25928), (657, 25901), (718, 25790), (731, 25742), (732, 25739), (738, 25712), (740, 25706), (743, 25694), (761, 25655),

Gene: DillyDally_29 Start: 24117, Stop: 22978, Start Num: 194

Candidate Starts for DillyDally_29:

(79, 24321), (194, 24117), (241, 24021), (308, 23913), (311, 23907), (326, 23883), (358, 23829), (418, 23766), (423, 23754), (427, 23745), (437, 23724), (459, 23679), (484, 23640), (511, 23595), (515, 23586), (523, 23571), (596, 23451), (601, 23439), (642, 23361), (706, 23247), (727, 23160), (733, 23142), (762, 23058), (794, 22986),

Gene: DinoDaryn_38 Start: 27370, Stop: 26255, Start Num: 174

Candidate Starts for DinoDaryn_38:

(Start: 174 @27370 has 12 MA's), (351, 27031), (375, 26998), (532, 26704), (544, 26692), (645, 26512), (734, 26341), (740, 26314),

Gene: DismalFunk_43 Start: 34317, Stop: 35417, Start Num: 163

Candidate Starts for DismalFunk_43:

(Start: 163 @34317 has 283 MA's), (172, 34335), (231, 34443), (253, 34479), (319, 34593), (337, 34617), (371, 34671), (458, 34812), (465, 34836), (466, 34839), (491, 34881), (556, 34989), (618, 35094), (651, 35139), (659, 35154), (742, 35346),

Gene: DismalStressor_43 Start: 34317, Stop: 35417, Start Num: 163

Candidate Starts for DismalStressor_43:

(Start: 163 @34317 has 283 MA's), (172, 34335), (231, 34443), (253, 34479), (319, 34593), (337, 34617), (371, 34671), (458, 34812), (465, 34836), (466, 34839), (491, 34881), (556, 34989), (618, 35094), (651, 35139), (659, 35154), (742, 35346),

Gene: Dmitri_36 Start: 30429, Stop: 31346, Start Num: 279

Candidate Starts for Dmitri_36:

(Start: 275 @30423 has 15 MA's), (Start: 279 @30429 has 58 MA's), (Start: 298 @30453 has 1 MA's), (348, 30549), (393, 30618), (396, 30624), (447, 30747), (491, 30810), (531, 30864), (535, 30873), (546, 30894), (553, 30903), (577, 30933), (662, 31086), (676, 31113), (711, 31149), (714, 31155), (761, 31314),

Gene: DmpstrDiver_82 Start: 52410, Stop: 53639, Start Num: 85

Candidate Starts for DmpstrDiver_82:

(Start: 85 @52410 has 29 MA's), (Start: 91 @52428 has 1 MA's), (Start: 112 @52467 has 1 MA's), (Start: 254 @52704 has 1 MA's), (318, 52812), (418, 52932), (419, 52935), (423, 52944), (429, 52959), (447, 52998), (491, 53076), (556, 53181), (562, 53193), (575, 53196), (582, 53205), (607, 53256), (609, 53259), (619, 53277), (672, 53373), (709, 53430), (737, 53550), (738, 53553), (745, 53577), (757, 53601), (759, 53604),

Gene: DoRead_44 Start: 32140, Stop: 33258, Start Num: 163

Candidate Starts for DoRead_44:

(Start: 163 @32140 has 283 MA's), (232, 32278), (253, 32311), (284, 32359), (371, 32512), (382, 32521), (424, 32602), (468, 32695), (504, 32755), (512, 32767), (513, 32770), (529, 32797), (539, 32821), (560, 32848), (590, 32884), (592, 32887), (609, 32923), (625, 32959), (675, 33028), (682, 33043), (727, 33130), (730, 33139), (734, 33151), (740, 33178), (745, 33196), (755, 33217), (762, 33232), (766, 33241), (768, 33244),

Gene: DobbysSock_30 Start: 26128, Stop: 27051, Start Num: 275

Candidate Starts for DobbysSock_30:

(Start: 275 @26128 has 15 MA's), (Start: 279 @26134 has 58 MA's), (393, 26323), (396, 26329), (438, 26431), (448, 26455), (491, 26515), (533, 26572), (535, 26578), (537, 26584), (612, 26698), (615, 26704), (621, 26716), (662, 26791), (675, 26815), (676, 26818), (711, 26854), (714, 26860), (721, 26893), (742, 26974),

Gene: DobbysSock_31 Start: 27501, Stop: 28628, Start Num: 163

Candidate Starts for DobbysSock_31:

(53, 27282), (62, 27318), (Start: 163 @27501 has 283 MA's), (190, 27555), (276, 27711), (321, 27801), (343, 27834), (465, 28029), (466, 28032), (491, 28074), (513, 28110), (700, 28407), (723, 28485), (734, 28527), (740, 28554), (766, 28617),

Gene: Dole_44 Start: 33263, Stop: 34351, Start Num: 163

Candidate Starts for Dole_44:

(Start: 163 @33263 has 283 MA's), (Start: 218 @33365 has 6 MA's), (231, 33389), (253, 33425), (289, 33476), (319, 33539), (337, 33563), (371, 33617), (378, 33620), (429, 33701), (465, 33770), (466, 33773), (556, 33923), (603, 34001), (618, 34028), (715, 34163),

Gene: Dolores_40 Start: 29868, Stop: 30995, Start Num: 163

Candidate Starts for Dolores_40:

(129, 29829), (Start: 163 @29868 has 283 MA's), (190, 29922), (250, 30045), (276, 30078), (321, 30168), (343, 30201), (465, 30396), (466, 30399), (491, 30441), (513, 30477), (700, 30774), (723, 30852), (729, 30879), (734, 30894), (740, 30921), (766, 30984),

Gene: Dolores_37 Start: 28084, Stop: 29001, Start Num: 279

Candidate Starts for Dolores_37:

(Start: 275 @28078 has 15 MA's), (Start: 279 @28084 has 58 MA's), (393, 28273), (396, 28279), (438, 28381), (448, 28405), (491, 28465), (533, 28522), (535, 28528), (537, 28534), (612, 28648), (615, 28654), (621, 28666), (662, 28741), (675, 28765), (676, 28768), (711, 28804), (714, 28810), (716, 28822), (742, 28924),

Gene: Donkeykong_41 Start: 32106, Stop: 33224, Start Num: 163

Candidate Starts for Donkeykong_41:

(Start: 163 @32106 has 283 MA's), (168, 32115), (232, 32244), (253, 32277), (284, 32325), (346, 32442), (371, 32478), (382, 32487), (424, 32568), (438, 32592), (468, 32661), (491, 32700), (504, 32721), (512, 32733), (513, 32736), (519, 32748), (539, 32787), (543, 32793), (560, 32814), (590, 32850), (592, 32853), (609, 32889), (613, 32895), (618, 32907), (620, 32910), (675, 32994), (682, 33009), (708, 33027), (727, 33096), (730, 33105), (740, 33144), (745, 33162), (755, 33183), (762, 33198), (766, 33207), (768, 33210),

Gene: Dori_45 Start: 42022, Stop: 40820, Start Num: 156

Candidate Starts for Dori_45:

(Start: 156 @42022 has 17 MA's), (199, 41947), (208, 41923), (211, 41917), (274, 41812), (334, 41701), (335, 41698), (364, 41635), (432, 41500), (441, 41479), (476, 41425), (555, 41296), (558, 41290), (660, 41113), (662, 41110), (663, 41107), (677, 41086), (697, 41050), (723, 40984), (726, 40969), (744, 40903), (760, 40879), (773, 40849),

Gene: Dorito_32 Start: 25772, Stop: 26695, Start Num: 275

Candidate Starts for Dorito_32:

(Start: 275 @25772 has 15 MA's), (Start: 279 @25778 has 58 MA's), (393, 25967), (396, 25973), (438, 26075), (448, 26099), (491, 26159), (533, 26216), (535, 26222), (537, 26228), (612, 26342), (615, 26348), (621, 26360), (662, 26435), (675, 26459), (676, 26462), (711, 26498), (714, 26504), (721, 26537), (742, 26618),

Gene: Dorito_34 Start: 27145, Stop: 28272, Start Num: 163

Candidate Starts for Dorito_34:

(53, 26926), (62, 26962), (Start: 163 @27145 has 283 MA's), (190, 27199), (250, 27322), (276, 27355), (321, 27445), (343, 27478), (465, 27673), (466, 27676), (491, 27718), (513, 27754), (700, 28051), (723, 28129), (734, 28171), (740, 28198), (766, 28261),

Gene: DosHalletts_40 Start: 31274, Stop: 32392, Start Num: 163

Candidate Starts for DosHalletts_40:

(Start: 163 @31274 has 283 MA's), (253, 31445), (284, 31493), (371, 31646), (382, 31655), (424, 31736), (438, 31760), (468, 31829), (504, 31889), (512, 31901), (513, 31904), (519, 31916), (529, 31931), (539, 31955), (543, 31961), (560, 31982), (590, 32018), (592, 32021), (609, 32057), (613, 32063), (618, 32075), (620, 32078), (625, 32093), (675, 32162), (682, 32177), (717, 32219), (727, 32264), (730, 32273), (740, 32312), (745, 32330), (755, 32351), (762, 32366), (766, 32375), (768, 32378),

Gene: Dove_67 Start: 48492, Stop: 49721, Start Num: 85

Candidate Starts for Dove_67:

(Start: 85 @48492 has 29 MA's), (Start: 91 @48510 has 1 MA's), (Start: 112 @48549 has 1 MA's), (Start: 254 @48786 has 1 MA's), (318, 48894), (418, 49014), (419, 49017), (423, 49026), (429, 49041), (447, 49080), (491, 49158), (556, 49263), (562, 49275), (575, 49278), (582, 49287), (607, 49338), (609, 49341), (619, 49359), (672, 49455), (709, 49512), (737, 49632), (738, 49635), (745, 49659), (757, 49683), (759, 49686),

Gene: DrHayes_42 Start: 33376, Stop: 34464, Start Num: 163

Candidate Starts for DrHayes_42:

(51, 33154), (Start: 163 @33376 has 283 MA's), (190, 33427), (Start: 218 @33478 has 6 MA's), (231, 33502), (253, 33538), (319, 33652), (371, 33730), (429, 33814), (465, 33883), (466, 33886), (556, 34036), (618, 34141), (715, 34276), (757, 34420),

Gene: Drake55_36 Start: 26836, Stop: 25769, Start Num: 188

Candidate Starts for Drake55_36:

(Start: 103 @26953 has 3 MA's), (Start: 152 @26890 has 119 MA's), (Start: 188 @26836 has 14 MA's), (Start: 218 @26767 has 6 MA's), (243, 26722), (246, 26716), (289, 26650), (318, 26593), (393, 26503), (448, 26392), (464, 26368), (486, 26335), (491, 26323), (551, 26215), (554, 26212), (609, 26128), (613, 26122), (622, 26101), (629, 26086), (639, 26068), (731, 25882), (738, 25852), (740, 25846), (743, 25834), (761, 25795),

Gene: DropBear_33 Start: 26364, Stop: 25237, Start Num: 152

Candidate Starts for DropBear_33:

(Start: 152 @26364 has 119 MA's), (205, 26277), (Start: 218 @26241 has 6 MA's), (243, 26196), (284, 26136), (337, 26040), (343, 26028), (346, 26022), (393, 25977), (423, 25923), (424, 25920), (436,

25896), (540, 25707), (551, 25689), (559, 25677), (592, 25638), (609, 25602), (613, 25596), (622, 25575), (629, 25560), (639, 25542), (718, 25404), (731, 25356), (738, 25326), (740, 25320), (743, 25308), (761, 25269),

Gene: DudeLittle_33 Start: 26423, Stop: 25302, Start Num: 156

Candidate Starts for DudeLittle_33:

(129, 26453), (Start: 156 @26423 has 17 MA's), (Start: 188 @26372 has 14 MA's), (Start: 218 @26303 has 6 MA's), (243, 26258), (337, 26102), (350, 26075), (393, 26039), (418, 25997), (424, 25982), (464, 25904), (486, 25871), (491, 25859), (503, 25841), (551, 25751), (559, 25739), (609, 25664), (613, 25658), (622, 25637), (629, 25622), (639, 25604), (657, 25577), (659, 25568), (731, 25418), (732, 25415), (738, 25388), (740, 25382), (743, 25370), (761, 25331),

Gene: Duke13_85 Start: 52764, Stop: 53993, Start Num: 85

Candidate Starts for Duke13_85:

(Start: 85 @52764 has 29 MA's), (Start: 91 @52782 has 1 MA's), (Start: 112 @52821 has 1 MA's), (Start: 254 @53058 has 1 MA's), (318, 53166), (418, 53286), (419, 53289), (423, 53298), (429, 53313), (447, 53352), (491, 53430), (556, 53535), (562, 53547), (575, 53550), (582, 53559), (607, 53610), (609, 53613), (619, 53631), (672, 53727), (709, 53784), (737, 53904), (738, 53907), (745, 53931), (757, 53955), (759, 53958),

Gene: DumpsterDude_40 Start: 35157, Stop: 33988, Start Num: 147

Candidate Starts for DumpsterDude_40:

(Start: 147 @35157 has 63 MA's), (221, 35001), (Start: 275 @34914 has 15 MA's), (315, 34833), (338, 34797), (366, 34743), (370, 34737), (379, 34725), (387, 34713), (429, 34620), (432, 34614), (443, 34584), (511, 34515), (512, 34512), (529, 34482), (530, 34479), (558, 34431), (609, 34359), (714, 34197), (716, 34185), (723, 34158), (738, 34098), (741, 34089), (761, 34044), (778, 34005),

Gene: Duplo_37 Start: 26512, Stop: 25388, Start Num: 152

Candidate Starts for Duplo_37:

(Start: 152 @26512 has 119 MA's), (Start: 188 @26458 has 14 MA's), (Start: 218 @26389 has 6 MA's), (337, 26188), (350, 26161), (393, 26125), (423, 26071), (424, 26068), (438, 26041), (464, 25990), (486, 25957), (491, 25945), (503, 25927), (540, 25855), (551, 25837), (559, 25825), (592, 25786), (609, 25750), (613, 25744), (622, 25723), (629, 25708), (639, 25690), (657, 25663), (718, 25552), (731, 25504), (732, 25501), (738, 25474), (740, 25468), (743, 25456), (761, 25417),

Gene: Durfee_41 Start: 32792, Stop: 33880, Start Num: 163

Candidate Starts for Durfee_41:

(Start: 163 @32792 has 283 MA's), (Start: 218 @32894 has 6 MA's), (231, 32918), (253, 32954), (337, 33092), (429, 33230), (465, 33299), (466, 33302), (556, 33452), (618, 33557), (715, 33692),

Gene: EMSquaredA_36 Start: 28837, Stop: 29754, Start Num: 279

Candidate Starts for EMSquaredA_36:

(Start: 275 @28831 has 15 MA's), (Start: 279 @28837 has 58 MA's), (Start: 298 @28861 has 1 MA's), (348, 28957), (393, 29026), (396, 29032), (447, 29155), (491, 29218), (531, 29272), (535, 29281), (546, 29302), (553, 29311), (577, 29341), (597, 29365), (649, 29473), (662, 29494), (676, 29521),

Gene: EMSquaredA_37 Start: 30030, Stop: 31136, Start Num: 163

Candidate Starts for EMSquaredA_37:

(119, 29973), (Start: 163 @30030 has 283 MA's), (190, 30081), (250, 30186), (255, 30195), (281, 30225), (428, 30459), (429, 30465), (465, 30534), (466, 30537), (486, 30567), (513, 30618), (519, 30630), (654, 30858), (701, 30918), (723, 30993), (730, 31023), (766, 31125),

Gene: Eagle_32 Start: 26273, Stop: 25152, Start Num: 152

Candidate Starts for Eagle_32:

(Start: 116 @26318 has 3 MA's), (135, 26291), (Start: 152 @26273 has 119 MA's), (Start: 195 @26204 has 8 MA's), (Start: 218 @26150 has 6 MA's), (346, 25931), (350, 25922), (393, 25886), (418, 25844), (423, 25832), (424, 25829), (464, 25751), (540, 25616), (551, 25598), (609, 25511), (613, 25505), (622, 25484), (629, 25469), (639, 25451), (718, 25313), (731, 25265), (738, 25235), (740, 25229), (743, 25217), (761, 25178),

Gene: Easley_35 Start: 28370, Stop: 27201, Start Num: 147

Candidate Starts for Easley_35:

(Start: 147 @28370 has 63 MA's), (Start: 275 @28127 has 15 MA's), (317, 28043), (338, 28010), (379, 27938), (387, 27926), (408, 27881), (429, 27833), (511, 27728), (512, 27725), (529, 27695), (533, 27686), (609, 27572), (645, 27500), (646, 27497), (658, 27473), (662, 27467), (666, 27455), (714, 27410), (716, 27398), (723, 27371), (748, 27278), (761, 27257), (778, 27218),

Gene: Ebert_39 Start: 27799, Stop: 28881, Start Num: 159

Candidate Starts for Ebert_39:

(Start: 83 @27682 has 2 MA's), (Start: 86 @27688 has 6 MA's), (Start: 159 @27799 has 52 MA's), (190, 27853), (261, 27973), (423, 28228), (438, 28258), (466, 28318), (506, 28384), (519, 28408), (561, 28477), (590, 28513), (723, 28738), (729, 28765), (766, 28870),

Gene: Ecliptus_49 Start: 33668, Stop: 34762, Start Num: 163

Candidate Starts for Ecliptus_49:

(114, 33623), (Start: 163 @33668 has 283 MA's), (190, 33719), (232, 33797), (250, 33824), (346, 33983), (371, 34019), (419, 34079), (423, 34088), (424, 34091), (429, 34103), (438, 34118), (439, 34121), (470, 34184), (491, 34220), (512, 34253), (513, 34256), (519, 34268), (539, 34307), (641, 34463), (692, 34535), (723, 34595), (738, 34658), (742, 34670), (768, 34730),

Gene: EdnaMode_33 Start: 26384, Stop: 27466, Start Num: 159

Candidate Starts for EdnaMode_33:

(Start: 86 @26273 has 6 MA's), (Start: 159 @26384 has 52 MA's), (190, 26438), (261, 26558), (423, 26813), (438, 26843), (466, 26903), (506, 26969), (519, 26993), (723, 27323), (729, 27350), (766, 27455),

Gene: Eesa_33 Start: 25111, Stop: 23927, Start Num: 147

Candidate Starts for Eesa_33:

(Start: 147 @25111 has 63 MA's), (263, 24892), (Start: 275 @24874 has 15 MA's), (341, 24757), (390, 24667), (570, 24352), (620, 24259), (624, 24247), (633, 24229), (714, 24112), (722, 24076),

Gene: Efra2_44 Start: 32569, Stop: 33669, Start Num: 163

Candidate Starts for Efra2_44:

(Start: 163 @32569 has 283 MA's), (190, 32620), (231, 32695), (253, 32731), (255, 32734), (319, 32845), (458, 33064), (465, 33088), (466, 33091), (539, 33220), (556, 33241), (618, 33346), (675, 33433), (715, 33481), (726, 33529),

Gene: Eileen_34 Start: 24892, Stop: 26034, Start Num: 163

Candidate Starts for Eileen_34:

(Start: 163 @24892 has 283 MA's), (361, 25246), (368, 25252), (384, 25267), (411, 25321), (438, 25378), (465, 25438), (466, 25441), (483, 25468), (519, 25531), (592, 25651), (614, 25699), (682, 25825), (695, 25837), (730, 25933), (753, 26008),

Gene: Ein37_29 Start: 26478, Stop: 25285, Start Num: 171

Candidate Starts for Ein37_29:

(Start: 145 @26520 has 2 MA's), (Start: 171 @26478 has 20 MA's), (205, 26412), (244, 26331), (263, 26292), (274, 26277), (277, 26271), (282, 26259), (297, 26232), (314, 26199), (350, 26142), (362, 26109), (364, 26106), (396, 26058), (410, 26016), (411, 26013), (422, 25989), (431, 25974), (441, 25950), (449, 25935), (476, 25896), (487, 25884), (507, 25845), (530, 25806), (558, 25758), (560, 25755), (609, 25683), (613, 25677), (618, 25665), (620, 25662), (622, 25656), (649, 25602), (658, 25584), (660, 25581), (677, 25554), (686, 25536), (689, 25530), (691, 25527), (715, 25485), (721, 25458), (723, 25452), (736, 25395), (764, 25332), (766, 25329),

Gene: Ejimix_81 Start: 53852, Stop: 55081, Start Num: 85

Candidate Starts for Ejimix_81:

(Start: 85 @53852 has 29 MA's), (Start: 91 @53870 has 1 MA's), (Start: 112 @53909 has 1 MA's), (Start: 254 @54146 has 1 MA's), (318, 54254), (418, 54374), (419, 54377), (423, 54386), (429, 54401), (447, 54440), (491, 54518), (562, 54635), (575, 54638), (582, 54647), (607, 54698), (609, 54701), (619, 54719), (672, 54815), (709, 54872), (737, 54992), (738, 54995), (745, 55019), (757, 55043), (759, 55046),

Gene: EleanorGeorge_40 Start: 31639, Stop: 32757, Start Num: 163

Candidate Starts for EleanorGeorge_40:

(Start: 163 @31639 has 283 MA's), (168, 31648), (253, 31810), (346, 31975), (371, 32011), (382, 32020), (438, 32125), (468, 32194), (491, 32233), (501, 32251), (504, 32254), (512, 32266), (513, 32269), (519, 32281), (529, 32296), (539, 32320), (543, 32326), (560, 32347), (590, 32383), (592, 32386), (609, 32422), (613, 32428), (620, 32443), (625, 32458), (675, 32527), (682, 32542), (717, 32584), (727, 32629), (730, 32638), (740, 32677), (745, 32695), (755, 32716), (762, 32731), (766, 32740), (768, 32743),

Gene: Emerson_42 Start: 32470, Stop: 33558, Start Num: 163

Candidate Starts for Emerson_42:

(Start: 163 @32470 has 283 MA's), (190, 32521), (Start: 218 @32572 has 6 MA's), (231, 32596), (253, 32632), (337, 32770), (371, 32824), (429, 32908), (465, 32977), (466, 32980), (556, 33130), (603, 33208), (618, 33235), (675, 33322), (715, 33370),

Gene: Emma_44 Start: 32666, Stop: 33784, Start Num: 163

Candidate Starts for Emma_44:

(Start: 163 @32666 has 283 MA's), (168, 32675), (253, 32837), (284, 32885), (346, 33002), (371, 33038), (382, 33047), (438, 33152), (468, 33221), (491, 33260), (501, 33278), (504, 33281), (512, 33293), (513, 33296), (519, 33308), (529, 33323), (539, 33347), (543, 33353), (560, 33374), (590, 33410), (592, 33413), (609, 33449), (613, 33455), (618, 33467), (620, 33470), (625, 33485), (675, 33554), (682, 33569), (708, 33587), (717, 33611), (727, 33656), (730, 33665), (740, 33704), (745, 33722), (755, 33743), (762, 33758), (766, 33767), (768, 33770),

Gene: EnalisNailo_34 Start: 29811, Stop: 30734, Start Num: 275

Candidate Starts for EnalisNailo_34:

(Start: 275 @29811 has 15 MA's), (Start: 279 @29817 has 58 MA's), (Start: 298 @29841 has 1 MA's), (348, 29937), (396, 30012), (426, 30084), (447, 30135), (491, 30198), (531, 30252), (535, 30261), (546, 30282), (553, 30291), (577, 30321), (615, 30387), (649, 30453), (662, 30474), (676, 30501), (711, 30537),

Gene: EnalisNailo_35 Start: 31003, Stop: 32085, Start Num: 159

Candidate Starts for EnalisNailo_35:

(Start: 159 @31003 has 52 MA's), (Start: 222 @31120 has 1 MA's), (284, 31213), (423, 31435), (440, 31471), (466, 31525), (508, 31594), (513, 31603), (723, 31942), (729, 31969), (766, 32074),

Gene: Enby_42 Start: 31168, Stop: 32286, Start Num: 163

Candidate Starts for Enby_42:

(Start: 163 @31168 has 283 MA's), (168, 31177), (253, 31339), (346, 31504), (371, 31540), (382, 31549), (424, 31630), (438, 31654), (468, 31723), (491, 31762), (501, 31780), (504, 31783), (512, 31795), (513, 31798), (519, 31810), (539, 31849), (543, 31855), (560, 31876), (590, 31912), (592, 31915), (609, 31951), (613, 31957), (620, 31972), (675, 32056), (682, 32071), (708, 32089), (727, 32158), (730, 32167), (740, 32206), (745, 32224), (755, 32245), (762, 32260), (766, 32269), (768, 32272),

Gene: Enkosi_39 Start: 34589, Stop: 35683, Start Num: 163

Candidate Starts for Enkosi_39:

(30, 34238), (Start: 32 @34253 has 1 MA's), (45, 34346), (51, 34367), (82, 34460), (Start: 163 @34589 has 283 MA's), (190, 34640), (231, 34715), (253, 34751), (310, 34847), (319, 34865), (337, 34889), (367, 34937), (371, 34943), (452, 35075), (465, 35108), (491, 35153), (556, 35261), (618, 35366), (659, 35426), (715, 35501), (742, 35609), (757, 35645),

Gene: EpicPhail_36 Start: 26790, Stop: 25645, Start Num: 152

Candidate Starts for EpicPhail_36:

(Start: 152 @26790 has 119 MA's), (Start: 180 @26751 has 10 MA's), (205, 26703), (Start: 218 @26667 has 6 MA's), (243, 26622), (337, 26466), (350, 26439), (393, 26403), (424, 26346), (464, 26268), (477, 26244), (503, 26205), (540, 26133), (546, 26121), (551, 26115), (559, 26103), (609, 26028), (613, 26022), (622, 26001), (629, 25986), (639, 25968), (655, 25944), (718, 25830), (730, 25785), (731, 25782), (734, 25773), (738, 25752), (740, 25746), (743, 25734), (761, 25695),

Gene: Equemioh13_35 Start: 26811, Stop: 25678, Start Num: 152

Candidate Starts for Equemioh13_35:

(Start: 152 @26811 has 119 MA's), (Start: 188 @26757 has 14 MA's), (Start: 218 @26688 has 6 MA's), (243, 26643), (337, 26487), (350, 26460), (393, 26424), (424, 26367), (491, 26244), (503, 26226), (551, 26136), (559, 26124), (609, 26049), (613, 26043), (622, 26022), (629, 26007), (639, 25989), (657, 25962), (659, 25953), (718, 25851), (731, 25803), (738, 25773), (740, 25767), (743, 25755), (761, 25716),

Gene: EricMillard_80 Start: 53055, Stop: 54284, Start Num: 85

Candidate Starts for EricMillard_80:

(Start: 85 @53055 has 29 MA's), (Start: 91 @53073 has 1 MA's), (Start: 112 @53112 has 1 MA's), (Start: 254 @53349 has 1 MA's), (318, 53457), (418, 53577), (419, 53580), (423, 53589), (429, 53604), (447, 53643), (491, 53721), (556, 53826), (562, 53838), (575, 53841), (582, 53850), (607, 53901), (609, 53904), (619, 53922), (672, 54018), (709, 54075), (737, 54195), (738, 54198), (745, 54222), (757, 54246), (759, 54249),

Gene: Estave1_43 Start: 31907, Stop: 33010, Start Num: 163

Candidate Starts for Estave1_43:

(Start: 163 @31907 has 283 MA's), (190, 31955), (232, 32036), (247, 32063), (371, 32276), (396, 32300), (424, 32348), (465, 32429), (506, 32498), (512, 32507), (529, 32537), (539, 32561), (556, 32582), (603, 32660), (613, 32675), (654, 32735), (675, 32774), (682, 32789), (705, 32813), (717, 32840), (723, 32864), (727, 32885), (730, 32894), (742, 32939), (745, 32951),

Gene: Eudoria_39 Start: 30563, Stop: 31645, Start Num: 159

Candidate Starts for Eudoria_39:

(Start: 86 @30452 has 6 MA's), (Start: 159 @30563 has 52 MA's), (190, 30617), (261, 30737), (423, 30992), (438, 31022), (466, 31082), (506, 31148), (519, 31172), (723, 31502), (729, 31529), (766, 31634),

Gene: Eurydice_33 Start: 26248, Stop: 25127, Start Num: 152

Candidate Starts for Eurydice_33:

(Start: 116 @26293 has 3 MA's), (135, 26266), (Start: 152 @26248 has 119 MA's), (Start: 195 @26179 has 8 MA's), (Start: 218 @26125 has 6 MA's), (346, 25906), (350, 25897), (393, 25861), (418, 25819), (423, 25807), (424, 25804), (464, 25726), (540, 25591), (551, 25573), (609, 25486), (613, 25480), (622, 25459), (629, 25444), (639, 25426), (718, 25288), (731, 25240), (738, 25210), (740, 25204), (743, 25192), (761, 25153),

Gene: Evanesce_29 Start: 26478, Stop: 25285, Start Num: 171

Candidate Starts for Evanesce_29:

(Start: 145 @26520 has 2 MA's), (Start: 171 @26478 has 20 MA's), (205, 26412), (244, 26331), (263, 26292), (274, 26277), (277, 26271), (282, 26259), (297, 26232), (314, 26199), (350, 26142), (362, 26109), (364, 26106), (396, 26058), (410, 26016), (411, 26013), (422, 25989), (431, 25974), (441, 25950), (449, 25935), (476, 25896), (487, 25884), (507, 25845), (530, 25806), (558, 25758), (560, 25755), (609, 25683), (613, 25677), (618, 25665), (620, 25662), (622, 25656), (649, 25602), (658, 25584), (660, 25581), (677, 25554), (686, 25536), (689, 25530), (691, 25527), (715, 25485), (721, 25458), (723, 25452), (736, 25395), (764, 25332), (766, 25329),

Gene: EvePickles_38 Start: 28599, Stop: 27466, Start Num: 163

Candidate Starts for EvePickles_38:

(58, 28782), (68, 28752), (Start: 163 @28599 has 283 MA's), (190, 28548), (253, 28434), (284, 28392), (289, 28380), (299, 28362), (361, 28248), (388, 28230), (418, 28167), (424, 28152), (429, 28140), (465, 28065), (470, 28056), (506, 27996), (546, 27921), (557, 27906), (641, 27756), (645, 27753), (717, 27636), (723, 27612), (726, 27597), (740, 27543), (746, 27522), (761, 27492),

Gene: Eviarto_39 Start: 31988, Stop: 33070, Start Num: 159

Candidate Starts for Eviarto_39:

(Start: 86 @31877 has 6 MA's), (Start: 159 @31988 has 52 MA's), (190, 32042), (261, 32162), (419, 32408), (423, 32417), (438, 32447), (466, 32507), (506, 32573), (519, 32597), (723, 32927), (729, 32954), (766, 33059),

Gene: EvilGenius_36 Start: 28005, Stop: 27007, Start Num: 218

Candidate Starts for EvilGenius_36:

(Start: 123 @28152 has 7 MA's), (Start: 138 @28134 has 7 MA's), (Start: 195 @28053 has 8 MA's), (Start: 218 @28005 has 6 MA's), (243, 27960), (337, 27804), (350, 27777), (393, 27741), (424, 27684), (464, 27606), (486, 27573), (491, 27561), (503, 27543), (551, 27453), (559, 27441), (609, 27366), (613, 27360), (622, 27339), (629, 27324), (639, 27306), (657, 27279), (659, 27270), (718, 27168), (731, 27120), (732, 27117), (738, 27090), (740, 27084), (743, 27072), (761, 27033),

Gene: Faith5x5_30 Start: 24997, Stop: 26145, Start Num: 105

Candidate Starts for Faith5x5_30:

(Start: 105 @24997 has 1 MA's), (125, 25027), (Start: 158 @25060 has 1 MA's), (207, 25147), (250, 25219), (491, 25615), (513, 25651), (514, 25654), (519, 25663), (592, 25777), (692, 25942), (723, 26002), (742, 26077), (766, 26134),

Gene: Faja_39 Start: 29043, Stop: 27904, Start Num: 163

Candidate Starts for Faja_39:

(Start: 163 @29043 has 283 MA's), (190, 28992), (289, 28824), (299, 28806), (388, 28674), (424, 28596), (429, 28584), (433, 28578), (465, 28509), (470, 28500), (506, 28440), (557, 28350), (620, 28245), (630, 28224), (645, 28197), (717, 28074), (723, 28050), (726, 28035), (761, 27930),

Gene: Fameo_34 Start: 26494, Stop: 25430, Start Num: 188

Candidate Starts for Fameo_34:

(129, 26575), (Start: 156 @26545 has 17 MA's), (Start: 188 @26494 has 14 MA's), (Start: 218 @26425 has 6 MA's), (243, 26380), (337, 26224), (350, 26197), (393, 26161), (424, 26104), (464, 26026), (486, 25993), (491, 25981), (503, 25963), (551, 25873), (559, 25861), (613, 25780), (622, 25759), (629, 25744), (639, 25726), (657, 25699), (718, 25588), (730, 25543), (731, 25540), (732, 25537), (738, 25510), (740, 25504), (743, 25492), (761, 25453),

Gene: Farber_36 Start: 26744, Stop: 25638, Start Num: 180

Candidate Starts for Farber_36:

(Start: 152 @26783 has 119 MA's), (Start: 180 @26744 has 10 MA's), (Start: 218 @26660 has 6 MA's), (243, 26615), (337, 26459), (350, 26432), (393, 26396), (424, 26339), (464, 26261), (477, 26237), (503, 26198), (540, 26126), (546, 26114), (551, 26108), (559, 26096), (609, 26021), (613, 26015), (622, 25994), (629, 25979), (639, 25961), (655, 25937), (718, 25823), (730, 25778), (731, 25775), (734, 25766), (738, 25745), (740, 25739), (743, 25727), (761, 25688),

Gene: Farewell_44 Start: 33396, Stop: 34574, Start Num: 166

Candidate Starts for Farewell_44:

(Start: 166 @33396 has 2 MA's), (190, 33444), (225, 33510), (253, 33555), (343, 33705), (360, 33747), (429, 33861), (440, 33888), (465, 33936), (466, 33939), (513, 34020), (519, 34032), (588, 34137), (609, 34179), (616, 34194), (623, 34209), (643, 34233), (715, 34344), (729, 34404), (755, 34485), (761, 34497), (777, 34536),

Gene: Fernando_36 Start: 26750, Stop: 25644, Start Num: 180

Candidate Starts for Fernando_36:

(Start: 152 @26789 has 119 MA's), (Start: 180 @26750 has 10 MA's), (205, 26702), (Start: 218 @26666 has 6 MA's), (243, 26621), (337, 26465), (350, 26438), (393, 26402), (424, 26345), (464, 26267), (477, 26243), (503, 26204), (540, 26132), (546, 26120), (551, 26114), (559, 26102), (609, 26027), (613, 26021), (622, 26000), (629, 25985), (639, 25967), (655, 25943), (718, 25829), (730, 25784), (731, 25781), (734, 25772), (738, 25751), (740, 25745), (743, 25733), (761, 25694),

Gene: Filuzino_41 Start: 31324, Stop: 32442, Start Num: 163

Candidate Starts for Filuzino_41:

(Start: 163 @31324 has 283 MA's), (253, 31495), (346, 31660), (371, 31696), (382, 31705), (438, 31810), (468, 31879), (491, 31918), (504, 31939), (512, 31951), (513, 31954), (519, 31966), (529, 31981), (539, 32005), (543, 32011), (560, 32032), (590, 32068), (592, 32071), (609, 32107), (613, 32113), (620, 32128), (625, 32143), (675, 32212), (682, 32227), (708, 32245), (717, 32269), (727, 32314), (730, 32323), (740, 32362), (745, 32380), (755, 32401), (762, 32416), (766, 32425), (768, 32428),

Gene: Findley_43 Start: 34310, Stop: 35410, Start Num: 163

Candidate Starts for Findley_43:

(Start: 163 @34310 has 283 MA's), (172, 34328), (190, 34361), (231, 34436), (253, 34472), (319, 34586), (337, 34610), (371, 34664), (458, 34805), (465, 34829), (466, 34832), (491, 34874), (556, 34982), (618, 35087), (651, 35132), (659, 35147), (742, 35339),

Gene: Finkle_45 Start: 32773, Stop: 31643, Start Num: 141

Candidate Starts for Finkle_45:

(100, 32830), (Start: 141 @32773 has 2 MA's), (162, 32749), (181, 32716), (268, 32554), (346, 32419), (348, 32416), (410, 32350), (447, 32266), (451, 32257), (466, 32230), (491, 32188), (506, 32161), (565, 32056), (615, 31972), (665, 31870), (704, 31846), (724, 31795), (727, 31777), (733, 31759), (738, 31735), (742, 31723),

Gene: FiringLine_34 Start: 26370, Stop: 25255, Start Num: 156

Candidate Starts for FiringLine_34:

(129, 26400), (Start: 156 @26370 has 17 MA's), (Start: 218 @26250 has 6 MA's), (243, 26205), (337, 26049), (350, 26022), (393, 25986), (418, 25944), (424, 25929), (486, 25818), (491, 25806), (503, 25788), (551, 25698), (559, 25686), (609, 25611), (613, 25605), (622, 25584), (629, 25569), (639, 25551), (657, 25524), (659, 25515), (718, 25413), (730, 25368), (731, 25365), (732, 25362), (738, 25335), (740, 25329), (743, 25317), (761, 25278),

Gene: Flare16_34 Start: 26449, Stop: 25382, Start Num: 188

Candidate Starts for Flare16_34:

(Start: 103 @26566 has 3 MA's), (Start: 152 @26503 has 119 MA's), (Start: 188 @26449 has 14 MA's), (Start: 218 @26380 has 6 MA's), (243, 26335), (316, 26209), (350, 26152), (393, 26116), (423, 26062), (424, 26059), (491, 25936), (503, 25918), (551, 25828), (559, 25816), (609, 25741), (613, 25735), (622, 25714), (629, 25699), (639, 25681), (657, 25654), (731, 25495), (738, 25465), (740, 25459), (743, 25447), (761, 25408),

Gene: Flathead_44 Start: 33580, Stop: 34698, Start Num: 163

Candidate Starts for Flathead_44:

(Start: 163 @33580 has 283 MA's), (168, 33589), (253, 33751), (346, 33916), (371, 33952), (382, 33961), (438, 34066), (468, 34135), (491, 34174), (501, 34192), (504, 34195), (512, 34207), (513, 34210), (519, 34222), (529, 34237), (539, 34261), (543, 34267), (560, 34288), (590, 34324), (592, 34327), (609, 34363), (613, 34369), (618, 34381), (620, 34384), (675, 34468), (682, 34483), (708, 34501), (717, 34525), (727, 34570), (730, 34579), (740, 34618), (745, 34636), (755, 34657), (762, 34672), (766, 34681), (768, 34684),

Gene: Floral_36 Start: 32103, Stop: 33209, Start Num: 163

Candidate Starts for Floral_36:

(119, 32046), (Start: 163 @32103 has 283 MA's), (190, 32154), (250, 32259), (281, 32298), (429, 32538), (465, 32607), (466, 32610), (486, 32640), (513, 32691), (519, 32703), (654, 32931), (701, 32991), (723, 33066), (730, 33096), (766, 33198),

Gene: Floral_35 Start: 30904, Stop: 31827, Start Num: 275

Candidate Starts for Floral_35:

(Start: 275 @30904 has 15 MA's), (Start: 279 @30910 has 58 MA's), (Start: 298 @30934 has 1 MA's), (348, 31030), (393, 31099), (396, 31105), (447, 31228), (491, 31291), (531, 31345), (535, 31354), (546, 31375), (553, 31384), (577, 31414), (597, 31438), (649, 31546), (662, 31567), (676, 31594),

Gene: Footloose_31 Start: 22512, Stop: 21292, Start Num: 163

Candidate Starts for Footloose_31:

(Start: 163 @22512 has 283 MA's), (185, 22473), (193, 22455), (201, 22437), (227, 22386), (249, 22350), (303, 22254), (350, 22170), (371, 22143), (388, 22119), (406, 22077), (410, 22062), (429, 22017), (447, 21978), (465, 21945), (506, 21879), (508, 21876), (519, 21855), (557, 21789), (620, 21687), (623, 21678), (638, 21648), (653, 21621), (664, 21594), (681, 21567), (693, 21555), (707, 21537), (717, 21501), (723, 21477), (740, 21408), (745, 21390), (757, 21366), (768, 21342),

Gene: Forge_29 Start: 26478, Stop: 25285, Start Num: 171

Candidate Starts for Forge_29:

(Start: 145 @26520 has 2 MA's), (Start: 171 @26478 has 20 MA's), (205, 26412), (244, 26331), (263, 26292), (274, 26277), (277, 26271), (282, 26259), (297, 26232), (314, 26199), (350, 26142), (362, 26109), (364, 26106), (396, 26058), (410, 26016), (411, 26013), (422, 25989), (431, 25974), (441, 25950), (449, 25935), (476, 25896), (487, 25884), (507, 25845), (530, 25806), (558, 25758), (560, 25755), (609, 25683), (613, 25677), (618, 25665), (620, 25662), (622, 25656), (649, 25602), (658, 25584), (660, 25581), (677, 25554), (686, 25536), (689, 25530), (691, 25527), (715, 25485), (721, 25458), (723, 25452), (736, 25395), (764, 25332), (766, 25329),

Gene: FosterFrank_40 Start: 26544, Stop: 27686, Start Num: 163

Candidate Starts for FosterFrank_40:

(75, 26397), (81, 26409), (84, 26418), (97, 26451), (Start: 126 @26499 has 1 MA's), (137, 26514), (Start: 163 @26544 has 283 MA's), (361, 26898), (368, 26904), (386, 26922), (438, 27030), (465, 27090), (519, 27183), (592, 27303), (614, 27351), (630, 27381), (682, 27477), (730, 27585), (753, 27660),

Gene: FosterFrank_36 Start: 24468, Stop: 25388, Start Num: 279

Candidate Starts for FosterFrank_36:

(Start: 279 @24468 has 58 MA's), (365, 24624), (380, 24642), (387, 24654), (451, 24801), (464, 24810), (490, 24849), (535, 24918), (537, 24924), (558, 24957), (595, 24999), (618, 25050), (724, 25242), (730, 25269), (732, 25275), (761, 25356), (762, 25359),

Gene: Francois_38 Start: 31405, Stop: 30134, Start Num: 147

Candidate Starts for Francois_38:

(Start: 147 @31405 has 63 MA's), (160, 31390), (206, 31288), (Start: 222 @31246 has 1 MA's), (Start: 275 @31159 has 15 MA's), (312, 31084), (317, 31075), (328, 31057), (387, 30958), (390, 30955), (429, 30865), (504, 30769), (557, 30664), (560, 30658), (646, 30496), (716, 30355), (727, 30310), (741, 30259), (748, 30235), (757, 30223), (762, 30211), (786, 30172),

Gene: Fred313_33 Start: 26049, Stop: 24922, Start Num: 152

Candidate Starts for Fred313_33:

(Start: 152 @26049 has 119 MA's), (205, 25962), (Start: 218 @25926 has 6 MA's), (243, 25881), (284, 25821), (337, 25725), (343, 25713), (346, 25707), (393, 25662), (423, 25608), (424, 25605), (436, 25581), (540, 25392), (551, 25374), (559, 25362), (592, 25323), (609, 25287), (613, 25281), (622, 25260), (629, 25245), (639, 25227), (718, 25089), (731, 25041), (738, 25011), (740, 25005), (743, 24993), (761, 24954),

Gene: Frickyeah_52 Start: 32012, Stop: 33106, Start Num: 163

Candidate Starts for Frickyeah_52:

(94, 31925), (115, 31961), (Start: 163 @32012 has 283 MA's), (190, 32063), (228, 32135), (232, 32141), (250, 32168), (303, 32255), (346, 32327), (371, 32363), (382, 32372), (429, 32447), (439, 32465), (491, 32564), (512, 32597), (513, 32600), (519, 32612), (592, 32714), (623, 32780), (641, 32807), (692, 32879), (723, 32939), (729, 32966), (768, 33074),

Gene: FroggyToad_38 Start: 30081, Stop: 28912, Start Num: 147

Candidate Starts for FroggyToad_38:

(Start: 147 @30081 has 63 MA's), (Start: 275 @29838 has 15 MA's), (315, 29757), (338, 29721), (352, 29694), (366, 29667), (370, 29661), (379, 29649), (387, 29637), (423, 29553), (429, 29544), (432, 29538), (511, 29439), (512, 29436), (529, 29406), (558, 29355), (609, 29283), (623, 29253), (714, 29121), (716, 29109), (738, 29022), (741, 29013), (761, 28968), (778, 28929),

Gene: Fruitloop_40 Start: 32560, Stop: 33678, Start Num: 163

Candidate Starts for Fruitloop_40:

(Start: 163 @32560 has 283 MA's), (253, 32731), (346, 32896), (371, 32932), (382, 32941), (424, 33022), (438, 33046), (468, 33115), (491, 33154), (504, 33175), (512, 33187), (513, 33190), (519, 33202), (529, 33217), (539, 33241), (543, 33247), (560, 33268), (590, 33304), (592, 33307), (609, 33343), (613, 33349), (620, 33364), (625, 33379), (675, 33448), (682, 33463), (717, 33505), (727, 33550), (730, 33559), (740, 33598), (745, 33616), (755, 33637), (762, 33652), (766, 33661), (768, 33664),

Gene: GMA1_30 Start: 24152, Stop: 23064, Start Num: 163

Candidate Starts for GMA1_30:

(Start: 163 @24152 has 283 MA's), (339, 23858), (373, 23798), (424, 23723), (429, 23711), (451, 23663), (465, 23642), (468, 23636), (508, 23567), (513, 23558), (519, 23546), (545, 23498), (603, 23414), (630, 23363), (646, 23336), (659, 23315), (701, 23267), (713, 23249), (723, 23207), (726, 23192), (728, 23183), (729, 23180), (730, 23177), (745, 23120), (766, 23075),

Gene: GMA4_29 Start: 26449, Stop: 25217, Start Num: 136

Candidate Starts for GMA4_29:

(136, 26449), (259, 26212), (262, 26203), (267, 26197), (387, 25981), (410, 25924), (448, 25837), (511, 25753), (513, 25747), (533, 25711), (609, 25570), (645, 25498), (719, 25381), (738, 25309), (748, 25276), (749, 25273),

Gene: GUPitcher_34 Start: 28767, Stop: 27628, Start Num: 191

Candidate Starts for GUPitcher_34:

(Start: 191 @28767 has 2 MA's), (219, 28701), (272, 28626), (286, 28605), (307, 28560), (358, 28476), (416, 28419), (423, 28401), (440, 28365), (454, 28335), (462, 28320), (468, 28308), (480, 28287), (502, 28251), (504, 28248), (515, 28227), (536, 28185), (538, 28182), (552, 28158), (579, 28119), (590, 28101), (644, 27993), (672, 27942), (712, 27870), (726, 27801), (727, 27795), (728, 27792), (777, 27660), (782, 27654),

Gene: Gaia_52 Start: 37562, Stop: 38833, Start Num: 69

Candidate Starts for Gaia_52:

(Start: 69 @37562 has 10 MA's), (Start: 91 @37610 has 1 MA's), (Start: 112 @37649 has 1 MA's), (284, 37928), (355, 38045), (418, 38114), (419, 38117), (423, 38126), (438, 38156), (470, 38222), (491, 38258), (510, 38285), (512, 38288), (519, 38303), (522, 38309), (541, 38342), (551, 38357), (554, 38360), (556, 38363), (562, 38375), (575, 38393), (582, 38402), (602, 38444), (605, 38450), (607, 38453), (631, 38498), (672, 38570), (712, 38636), (717, 38663), (737, 38747), (738, 38750), (746, 38777), (757, 38798),

Gene: Galactic_43 Start: 32779, Stop: 33897, Start Num: 163

Candidate Starts for Galactic_43:

(Start: 163 @32779 has 283 MA's), (168, 32788), (253, 32950), (346, 33115), (371, 33151), (382, 33160), (438, 33265), (468, 33334), (491, 33373), (501, 33391), (504, 33394), (512, 33406), (513, 33409), (519, 33421), (529, 33436), (539, 33460), (543, 33466), (560, 33487), (590, 33523), (592, 33526), (609, 33562), (613, 33568), (620, 33583), (625, 33598), (675, 33667), (682, 33682), (717, 33724), (727, 33769), (730, 33778), (740, 33817), (745, 33835), (755, 33856), (762, 33871), (766, 33880), (768, 33883),

Gene: Galaxy_33 Start: 24046, Stop: 22862, Start Num: 147

Candidate Starts for Galaxy_33:

(Start: 147 @24046 has 63 MA's), (341, 23692), (379, 23617), (390, 23602), (555, 23308), (570, 23287), (587, 23260), (620, 23194), (624, 23182), (633, 23164), (719, 23020), (722, 23011),

Gene: Gancho_28 Start: 26243, Stop: 25008, Start Num: 145

Candidate Starts for Gancho_28:

(Start: 145 @26243 has 2 MA's), (Start: 171 @26201 has 20 MA's), (205, 26135), (235, 26066), (244, 26054), (263, 26015), (274, 26000), (277, 25994), (282, 25982), (314, 25922), (350, 25865), (362, 25832), (364, 25829), (366, 25826), (422, 25712), (431, 25697), (441, 25673), (449, 25658), (463, 25643), (476, 25619), (487, 25607), (507, 25568), (509, 25565), (530, 25529), (558, 25481), (560, 25478), (609, 25406), (613, 25400), (618, 25388), (620, 25385), (622, 25379), (649, 25325), (660, 25304), (677, 25277), (686, 25259), (689, 25253), (715, 25208), (721, 25181), (723, 25175), (730, 25145), (736, 25118), (764, 25055),

Gene: Ganymede_42 Start: 32781, Stop: 33869, Start Num: 163

Candidate Starts for Ganymede_42:

(Start: 163 @32781 has 283 MA's), (Start: 218 @32883 has 6 MA's), (231, 32907), (253, 32943), (337, 33081), (371, 33135), (429, 33219), (465, 33288), (466, 33291), (556, 33441), (618, 33546), (675, 33633), (701, 33663), (715, 33681), (757, 33825),

Gene: GaugeLDP_35 Start: 27254, Stop: 26070, Start Num: 103

Candidate Starts for GaugeLDP_35:

(Start: 103 @27254 has 3 MA's), (Start: 152 @27191 has 119 MA's), (Start: 188 @27137 has 14 MA's), (Start: 218 @27068 has 6 MA's), (243, 27023), (318, 26894), (393, 26804), (448, 26693), (551, 26516), (559, 26504), (609, 26429), (613, 26423), (622, 26402), (629, 26387), (639, 26369), (718, 26231), (731, 26183), (732, 26180), (738, 26153), (740, 26147), (743, 26135), (761, 26096),

Gene: GemG_37 Start: 27875, Stop: 28957, Start Num: 159

Candidate Starts for GemG_37:

(Start: 83 @27758 has 2 MA's), (Start: 86 @27764 has 6 MA's), (Start: 159 @27875 has 52 MA's), (190, 27929), (261, 28049), (423, 28304), (438, 28334), (466, 28394), (506, 28460), (519, 28484), (561, 28553), (590, 28589), (723, 28814), (729, 28841), (766, 28946),

Gene: Gemma_35 Start: 26639, Stop: 25494, Start Num: 152

Candidate Starts for Gemma_35:

(Start: 103 @26702 has 3 MA's), (Start: 152 @26639 has 119 MA's), (Start: 188 @26585 has 14 MA's), (Start: 218 @26516 has 6 MA's), (346, 26297), (350, 26288), (393, 26252), (424, 26195), (464, 26117), (486, 26084), (540, 25982), (551, 25964), (559, 25952), (609, 25877), (613, 25871), (622, 25850), (629, 25835), (639, 25817), (655, 25793), (730, 25634), (731, 25631), (738, 25601), (740, 25595), (743, 25583), (761, 25544),

Gene: Georgie2_35 Start: 26415, Stop: 25300, Start Num: 156

Candidate Starts for Georgie2_35:

(129, 26445), (Start: 156 @26415 has 17 MA's), (Start: 218 @26295 has 6 MA's), (243, 26250), (337, 26094), (350, 26067), (393, 26031), (418, 25989), (424, 25974), (464, 25896), (486, 25863), (491, 25851), (503, 25833), (551, 25743), (559, 25731), (609, 25656), (613, 25650), (622, 25629), (629, 25614), (639, 25596), (657, 25569), (718, 25458), (730, 25413), (731, 25410), (732, 25407), (738, 25380), (740, 25374), (743, 25362), (761, 25323),

Gene: Geraldini_43 Start: 33527, Stop: 34615, Start Num: 163

Candidate Starts for Geraldini_43:

(Start: 163 @33527 has 283 MA's), (Start: 218 @33629 has 6 MA's), (231, 33653), (253, 33689), (337, 33827), (371, 33881), (429, 33965), (465, 34034), (466, 34037), (556, 34187), (618, 34292), (675, 34379), (715, 34427), (757, 34571),

Gene: Getalong_53 Start: 34783, Stop: 35853, Start Num: 163

Candidate Starts for Getalong_53:

(Start: 163 @34783 has 283 MA's), (190, 34834), (232, 34912), (250, 34939), (371, 35134), (382, 35143), (419, 35194), (423, 35203), (424, 35206), (429, 35218), (450, 35263), (470, 35299), (491, 35335), (512, 35368), (513, 35371), (519, 35383), (623, 35551), (692, 35650), (723, 35710), (729, 35737), (730, 35740), (736, 35767), (738, 35773), (742, 35785), (766, 35842),

Gene: Giles_29 Start: 26478, Stop: 25285, Start Num: 171

Candidate Starts for Giles_29:

(Start: 145 @26520 has 2 MA's), (Start: 171 @26478 has 20 MA's), (205, 26412), (244, 26331), (263, 26292), (274, 26277), (277, 26271), (282, 26259), (297, 26232), (314, 26199), (350, 26142), (362, 26109), (364, 26106), (396, 26058), (410, 26016), (411, 26013), (422, 25989), (431, 25974), (441, 25950), (449, 25935), (476, 25896), (487, 25884), (507, 25845), (530, 25806), (558, 25758), (560,

25755), (609, 25683), (613, 25677), (618, 25665), (620, 25662), (622, 25656), (649, 25602), (658, 25584), (660, 25581), (677, 25554), (686, 25536), (689, 25530), (691, 25527), (715, 25485), (721, 25458), (723, 25452), (736, 25395), (764, 25332), (766, 25329),

Gene: GingkoMaracino_36 Start: 26637, Stop: 25531, Start Num: 180

Candidate Starts for GingkoMaracino_36:

(Start: 152 @26676 has 119 MA's), (Start: 180 @26637 has 10 MA's), (205, 26589), (Start: 218 @26553 has 6 MA's), (243, 26508), (337, 26352), (350, 26325), (393, 26289), (424, 26232), (464, 26154), (477, 26130), (503, 26091), (540, 26019), (546, 26007), (551, 26001), (559, 25989), (609, 25914), (613, 25908), (622, 25887), (629, 25872), (639, 25854), (655, 25830), (718, 25716), (730, 25671), (731, 25668), (734, 25659), (738, 25638), (740, 25632), (743, 25620), (761, 25581),

Gene: Giroux_33 Start: 26209, Stop: 25169, Start Num: 205

Candidate Starts for Giroux_33:

(Start: 152 @26296 has 119 MA's), (205, 26209), (Start: 218 @26173 has 6 MA's), (243, 26128), (337, 25972), (343, 25960), (346, 25954), (393, 25909), (423, 25855), (424, 25852), (436, 25828), (551, 25621), (559, 25609), (592, 25570), (609, 25534), (613, 25528), (622, 25507), (629, 25492), (639, 25474), (718, 25336), (731, 25288), (738, 25258), (740, 25252), (743, 25240), (761, 25201),

Gene: Gizermo_37 Start: 27758, Stop: 28957, Start Num: 83

Candidate Starts for Gizermo_37:

(Start: 83 @27758 has 2 MA's), (Start: 86 @27764 has 6 MA's), (Start: 159 @27875 has 52 MA's), (190, 27929), (261, 28049), (423, 28304), (438, 28334), (466, 28394), (506, 28460), (519, 28484), (561, 28553), (590, 28589), (723, 28814), (729, 28841), (766, 28946),

Gene: Globfish_36 Start: 24809, Stop: 25729, Start Num: 279

Candidate Starts for Globfish_36:

(Start: 254 @24767 has 1 MA's), (268, 24791), (Start: 279 @24809 has 58 MA's), (380, 24983), (387, 24995), (451, 25142), (464, 25151), (490, 25190), (521, 25235), (535, 25259), (537, 25265), (558, 25298), (595, 25340), (599, 25349), (600, 25352), (621, 25397), (662, 25475), (726, 25595), (730, 25610), (762, 25700),

Gene: Globfish_39 Start: 27492, Stop: 26353, Start Num: 163

Candidate Starts for Globfish_39:

(Start: 163 @27492 has 283 MA's), (190, 27441), (253, 27327), (289, 27273), (299, 27255), (361, 27141), (388, 27123), (424, 27045), (429, 27033), (465, 26958), (470, 26949), (506, 26889), (557, 26799), (618, 26697), (622, 26688), (630, 26673), (641, 26649), (645, 26646), (717, 26529), (723, 26505), (726, 26490), (745, 26418), (746, 26415), (768, 26370),

Gene: GlobiWarming_35 Start: 24310, Stop: 25230, Start Num: 279

Candidate Starts for GlobiWarming_35:

(208, 24181), (211, 24187), (Start: 279 @24310 has 58 MA's), (365, 24466), (380, 24484), (387, 24496), (451, 24643), (464, 24652), (490, 24691), (535, 24760), (537, 24766), (558, 24799), (595, 24841), (720, 25072), (726, 25096), (730, 25111), (732, 25117), (761, 25198), (762, 25201),

Gene: GlobiWarming_38 Start: 26068, Stop: 27210, Start Num: 163

Candidate Starts for GlobiWarming_38:

(Start: 163 @26068 has 283 MA's), (361, 26422), (368, 26428), (386, 26446), (438, 26554), (465, 26614), (519, 26707), (592, 26827), (614, 26875), (630, 26905), (682, 27001), (730, 27109), (753, 27184),

Gene: Glotell_38 Start: 24072, Stop: 22879, Start Num: 147

Candidate Starts for Glotell_38:

(Start: 147 @24072 has 63 MA's), (379, 23643), (408, 23586), (417, 23562), (555, 23334), (624, 23208), (630, 23196), (640, 23175), (722, 23037), (743, 22956), (766, 22908),

Gene: Goib_39 Start: 28036, Stop: 26921, Start Num: 174

Candidate Starts for Goib_39:

(129, 28105), (Start: 174 @28036 has 12 MA's), (351, 27697), (375, 27664), (532, 27370), (544, 27358), (645, 27178), (740, 26980),

Gene: Gonephishing_76 Start: 48662, Stop: 49951, Start Num: 65

Candidate Starts for Gonephishing_76:

(54, 48620), (Start: 65 @48662 has 1 MA's), (Start: 69 @48677 has 10 MA's), (72, 48680), (Start: 91 @48725 has 1 MA's), (Start: 112 @48764 has 1 MA's), (342, 49145), (418, 49229), (424, 49244), (491, 49373), (575, 49493), (609, 49556), (619, 49574), (631, 49598), (672, 49670), (737, 49847), (738, 49850), (740, 49856), (745, 49874), (752, 49889), (757, 49898), (759, 49901), (779, 49946),

Gene: Gorge_43 Start: 32137, Stop: 33255, Start Num: 163

Candidate Starts for Gorge_43:

(Start: 163 @32137 has 283 MA's), (232, 32275), (253, 32308), (284, 32356), (346, 32473), (371, 32509), (382, 32518), (438, 32623), (468, 32692), (504, 32752), (512, 32764), (513, 32767), (519, 32779), (529, 32794), (539, 32818), (543, 32824), (560, 32845), (590, 32881), (592, 32884), (609, 32920), (613, 32926), (618, 32938), (620, 32941), (675, 33025), (682, 33040), (717, 33082), (727, 33127), (730, 33136), (740, 33175), (745, 33193), (755, 33214), (762, 33229), (766, 33238), (768, 33241),

Gene: Gorpy_41 Start: 29001, Stop: 27862, Start Num: 163

Candidate Starts for Gorpy_41:

(Start: 163 @29001 has 283 MA's), (190, 28950), (289, 28782), (299, 28764), (388, 28632), (424, 28554), (429, 28542), (433, 28536), (465, 28467), (470, 28458), (506, 28398), (557, 28308), (620, 28203), (630, 28182), (645, 28155), (717, 28032), (723, 28008), (726, 27993), (746, 27918), (761, 27888),

Gene: Gorpy_37 Start: 25804, Stop: 26721, Start Num: 279

Candidate Starts for Gorpy_37:

(208, 25675), (211, 25681), (Start: 279 @25804 has 58 MA's), (365, 25960), (380, 25975), (387, 25987), (451, 26134), (464, 26143), (490, 26182), (521, 26227), (535, 26251), (537, 26257), (558, 26290), (595, 26332), (599, 26341), (618, 26383), (662, 26467), (726, 26587), (730, 26602),

Gene: GrandSlam_39 Start: 31803, Stop: 30532, Start Num: 147

Candidate Starts for GrandSlam_39:

(Start: 147 @31803 has 63 MA's), (160, 31788), (206, 31686), (Start: 222 @31644 has 1 MA's), (230, 31632), (Start: 275 @31557 has 15 MA's), (312, 31482), (317, 31473), (328, 31455), (387, 31356), (390, 31353), (429, 31263), (511, 31158), (557, 31062), (560, 31056), (646, 30894), (716, 30753), (727, 30708), (741, 30657), (743, 30648), (748, 30633), (757, 30621), (762, 30609), (786, 30570),

Gene: Gravaillia_29 Start: 26207, Stop: 25014, Start Num: 171

Candidate Starts for Gravaillia_29:

(Start: 145 @26249 has 2 MA's), (Start: 171 @26207 has 20 MA's), (205, 26141), (235, 26072), (244, 26060), (263, 26021), (274, 26006), (277, 26000), (282, 25988), (314, 25928), (350, 25871), (362, 25838), (364, 25835), (366, 25832), (422, 25718), (431, 25703), (441, 25679), (449, 25664), (463, 25649), (476, 25625), (487, 25613), (507, 25574), (509, 25571), (530, 25535), (558, 25487), (560, 25484), (609, 25412), (613, 25406), (618, 25394), (620, 25391), (622, 25385), (649, 25331), (660, 25310), (677, 25283), (686, 25265), (689, 25259), (715, 25214), (721, 25187), (723, 25181), (730, 25151), (736, 25124), (764, 25061),

Gene: Gravel_41 Start: 25089, Stop: 23905, Start Num: 147

Candidate Starts for Gravel_41:

(Start: 147 @25089 has 63 MA's), (263, 24870), (Start: 275 @24852 has 15 MA's), (341, 24735), (379, 24660), (570, 24330), (620, 24237), (624, 24225), (633, 24207), (714, 24090), (722, 24054),

Gene: Grif_36 Start: 26864, Stop: 25719, Start Num: 152

Candidate Starts for Grif_36:

(Start: 152 @26864 has 119 MA's), (Start: 180 @26825 has 10 MA's), (205, 26777), (Start: 218 @26741 has 6 MA's), (243, 26696), (337, 26540), (350, 26513), (393, 26477), (424, 26420), (464, 26342), (477, 26318), (503, 26279), (540, 26207), (546, 26195), (551, 26189), (559, 26177), (609, 26102), (613, 26096), (622, 26075), (629, 26060), (639, 26042), (655, 26018), (718, 25904), (730, 25859), (731, 25856), (734, 25847), (738, 25826), (740, 25820), (743, 25808), (761, 25769),

Gene: Groupthink_36 Start: 26643, Stop: 25498, Start Num: 152

Candidate Starts for Groupthink_36:

(Start: 103 @26706 has 3 MA's), (Start: 152 @26643 has 119 MA's), (Start: 188 @26589 has 14 MA's), (Start: 218 @26520 has 6 MA's), (346, 26301), (350, 26292), (393, 26256), (424, 26199), (464, 26121), (486, 26088), (540, 25986), (551, 25968), (559, 25956), (609, 25881), (613, 25875), (622, 25854), (629, 25839), (639, 25821), (655, 25797), (730, 25638), (731, 25635), (738, 25605), (740, 25599), (743, 25587), (761, 25548),

Gene: Grub_36 Start: 26782, Stop: 25637, Start Num: 152

Candidate Starts for Grub_36:

(Start: 152 @26782 has 119 MA's), (Start: 180 @26743 has 10 MA's), (Start: 218 @26659 has 6 MA's), (243, 26614), (337, 26458), (350, 26431), (393, 26395), (424, 26338), (464, 26260), (477, 26236), (503, 26197), (540, 26125), (546, 26113), (551, 26107), (559, 26095), (609, 26020), (613, 26014), (622, 25993), (629, 25978), (639, 25960), (655, 25936), (718, 25822), (730, 25777), (731, 25774), (734, 25765), (738, 25744), (740, 25738), (743, 25726), (761, 25687),

Gene: Grum1_36 Start: 26789, Stop: 25644, Start Num: 152

Candidate Starts for Grum1_36:

(Start: 152 @26789 has 119 MA's), (Start: 180 @26750 has 10 MA's), (205, 26702), (Start: 218 @26666 has 6 MA's), (243, 26621), (337, 26465), (350, 26438), (393, 26402), (424, 26345), (464, 26267), (477, 26243), (503, 26204), (540, 26132), (546, 26120), (551, 26114), (559, 26102), (609, 26027), (613, 26021), (622, 26000), (629, 25985), (639, 25967), (655, 25943), (718, 25829), (730, 25784), (731, 25781), (734, 25772), (738, 25751), (740, 25745), (743, 25733), (761, 25694),

Gene: Gspu1_28 Start: 24542, Stop: 23361, Start Num: 141

Candidate Starts for Gspu1_28:

(95, 24608), (101, 24593), (117, 24572), (Start: 141 @24542 has 2 MA's), (168, 24506), (172, 24497), (173, 24494), (Start: 188 @24470 has 14 MA's), (243, 24359), (429, 24110), (447, 24071), (510, 23969), (551, 23891), (569, 23867), (579, 23852), (601, 23813), (609, 23795), (615, 23786), (636, 23744), (650, 23717), (672, 23675), (717, 23570), (727, 23525), (730, 23516), (733, 23507), (738, 23483), (783, 23387),

Gene: GtownJaz_36 Start: 26791, Stop: 25646, Start Num: 152

Candidate Starts for GtownJaz_36:

(Start: 152 @26791 has 119 MA's), (Start: 180 @26752 has 10 MA's), (Start: 218 @26668 has 6 MA's), (243, 26623), (337, 26467), (350, 26440), (393, 26404), (424, 26347), (464, 26269), (477, 26245), (503, 26206), (540, 26134), (546, 26122), (551, 26116), (559, 26104), (609, 26029), (613, 26023), (622, 26002), (629, 25987), (639, 25969), (655, 25945), (718, 25831), (730, 25786), (731, 25783), (734, 25774), (738, 25753), (740, 25747), (743, 25735), (761, 25696),

Gene: Guanica15_44 Start: 32526, Stop: 33626, Start Num: 163

Candidate Starts for Guanica15_44:

(70, 32376), (Start: 163 @32526 has 283 MA's), (190, 32577), (231, 32652), (253, 32688), (255, 32691), (319, 32802), (458, 33021), (465, 33045), (466, 33048), (539, 33177), (556, 33198), (618, 33303), (675, 33390), (715, 33438),

Gene: Guppsters_43 Start: 32537, Stop: 33664, Start Num: 163

Candidate Starts for Guppsters_43:

(Start: 91 @32435 has 1 MA's), (Start: 123 @32492 has 7 MA's), (Start: 163 @32537 has 283 MA's), (168, 32546), (253, 32708), (281, 32759), (289, 32777), (310, 32822), (371, 32918), (382, 32927), (424, 33008), (438, 33032), (468, 33101), (504, 33161), (512, 33173), (513, 33176), (519, 33188), (529, 33203), (539, 33227), (543, 33233), (560, 33254), (590, 33290), (592, 33293), (609, 33329), (613, 33335), (620, 33350), (675, 33434), (682, 33449), (717, 33491), (727, 33536), (730, 33545), (740, 33584), (745, 33602), (755, 33623), (762, 33638), (766, 33647), (768, 33650),

Gene: Gusanita_34 Start: 26041, Stop: 26961, Start Num: 279

Candidate Starts for Gusanita_34:

(208, 25912), (211, 25918), (Start: 279 @26041 has 58 MA's), (373, 26206), (380, 26215), (387, 26227), (393, 26236), (410, 26284), (451, 26374), (464, 26383), (490, 26422), (521, 26467), (535, 26491), (537, 26497), (558, 26530), (600, 26584), (618, 26623), (625, 26641), (662, 26707), (676, 26734), (759, 26923),

Gene: HH92_29 Start: 26478, Stop: 25285, Start Num: 171

Candidate Starts for HH92_29:

(Start: 145 @26520 has 2 MA's), (Start: 171 @26478 has 20 MA's), (205, 26412), (244, 26331), (263, 26292), (274, 26277), (277, 26271), (282, 26259), (297, 26232), (314, 26199), (350, 26142), (362, 26109), (364, 26106), (396, 26058), (410, 26016), (411, 26013), (422, 25989), (431, 25974), (441, 25950), (449, 25935), (476, 25896), (487, 25884), (507, 25845), (530, 25806), (558, 25758), (560, 25755), (609, 25683), (613, 25677), (618, 25665), (620, 25662), (622, 25656), (649, 25602), (658, 25584), (660, 25581), (677, 25554), (686, 25536), (689, 25530), (691, 25527), (715, 25485), (721, 25458), (723, 25452), (736, 25395), (764, 25332), (766, 25329),

Gene: Hades_43 Start: 31946, Stop: 33073, Start Num: 163

Candidate Starts for Hades_43:

(Start: 91 @31844 has 1 MA's), (Start: 123 @31901 has 7 MA's), (Start: 163 @31946 has 283 MA's), (168, 31955), (253, 32117), (281, 32168), (289, 32186), (310, 32231), (371, 32327), (382, 32336), (424, 32417), (438, 32441), (468, 32510), (491, 32549), (504, 32570), (512, 32582), (513, 32585), (519, 32597), (529, 32612), (539, 32636), (543, 32642), (560, 32663), (590, 32699), (592, 32702), (609, 32738), (613, 32744), (618, 32756), (620, 32759), (625, 32774), (675, 32843), (682, 32858), (717, 32900), (727, 32945), (730, 32954), (734, 32966), (740, 32993), (745, 33011), (755, 33032), (762, 33047), (766, 33056), (768, 33059),

Gene: Hadrien_29 Start: 26478, Stop: 25285, Start Num: 171

Candidate Starts for Hadrien_29:

(Start: 145 @26520 has 2 MA's), (Start: 171 @26478 has 20 MA's), (205, 26412), (244, 26331), (263, 26292), (274, 26277), (277, 26271), (282, 26259), (297, 26232), (314, 26199), (350, 26142), (362, 26109), (364, 26106), (396, 26058), (410, 26016), (411, 26013), (422, 25989), (431, 25974), (441, 25950), (449, 25935), (476, 25896), (487, 25884), (507, 25845), (530, 25806), (558, 25758), (560, 25755), (609, 25683), (613, 25677), (618, 25665), (620, 25662), (622, 25656), (649, 25602), (658, 25584), (660, 25581), (677, 25554), (686, 25536), (689, 25530), (691, 25527), (715, 25485), (721, 25458), (723, 25452), (736, 25395), (764, 25332), (766, 25329),

Gene: Hail_29 Start: 26478, Stop: 25285, Start Num: 171

Candidate Starts for Hail_29:

(Start: 145 @26520 has 2 MA's), (Start: 171 @26478 has 20 MA's), (205, 26412), (244, 26331), (263, 26292), (274, 26277), (277, 26271), (282, 26259), (297, 26232), (314, 26199), (350, 26142), (362, 26109), (364, 26106), (396, 26058), (410, 26016), (411, 26013), (422, 25989), (431, 25974), (441, 25950), (449, 25935), (476, 25896), (487, 25884), (507, 25845), (530, 25806), (558, 25758), (560, 25755), (609, 25683), (613, 25677), (618, 25665), (620, 25662), (622, 25656), (649, 25602), (658, 25584), (660, 25581), (677, 25554), (686, 25536), (689, 25530), (691, 25527), (715, 25485), (721, 25458), (723, 25452), (736, 25395), (764, 25332), (766, 25329),

Gene: Haley23_37 Start: 27875, Stop: 28957, Start Num: 159

Candidate Starts for Haley23_37:

(Start: 83 @27758 has 2 MA's), (Start: 86 @27764 has 6 MA's), (Start: 159 @27875 has 52 MA's), (190, 27929), (261, 28049), (423, 28304), (438, 28334), (466, 28394), (506, 28460), (519, 28484), (561, 28553), (590, 28589), (723, 28814), (729, 28841), (766, 28946),

Gene: Halley_83 Start: 53063, Stop: 54292, Start Num: 85

Candidate Starts for Halley_83:

(Start: 85 @53063 has 29 MA's), (Start: 91 @53081 has 1 MA's), (Start: 112 @53120 has 1 MA's), (Start: 254 @53357 has 1 MA's), (318, 53465), (418, 53585), (419, 53588), (423, 53597), (429, 53612), (447, 53651), (491, 53729), (556, 53834), (562, 53846), (575, 53849), (582, 53858), (607, 53909), (609, 53912), (619, 53930), (672, 54026), (709, 54083), (737, 54203), (738, 54206), (745, 54230), (757, 54254), (759, 54257),

Gene: Halloweekend_34 Start: 25999, Stop: 26919, Start Num: 279

Candidate Starts for Halloweekend_34:

(Start: 254 @25957 has 1 MA's), (Start: 279 @25999 has 58 MA's), (365, 26155), (380, 26173), (387, 26185), (451, 26332), (464, 26341), (490, 26380), (535, 26449), (537, 26455), (558, 26488), (579, 26512), (595, 26530), (600, 26542), (720, 26761), (726, 26785), (730, 26800), (732, 26806), (761, 26887), (762, 26890),

Gene: HamCheese_35 Start: 23900, Stop: 22707, Start Num: 147

Candidate Starts for HamCheese_35:

(Start: 147 @23900 has 63 MA's), (379, 23471), (408, 23414), (417, 23390), (555, 23162), (624, 23036), (630, 23024), (640, 23003), (722, 22865), (743, 22784), (766, 22736),

Gene: Hamood_39 Start: 31803, Stop: 30532, Start Num: 147

Candidate Starts for Hamood_39:

(Start: 147 @31803 has 63 MA's), (160, 31788), (206, 31686), (Start: 222 @31644 has 1 MA's), (230, 31632), (Start: 275 @31557 has 15 MA's), (312, 31482), (317, 31473), (328, 31455), (387, 31356), (390, 31353), (429, 31263), (511, 31158), (557, 31062), (560, 31056), (646, 30894), (716, 30753), (727, 30708), (741, 30657), (743, 30648), (748, 30633), (757, 30621), (762, 30609), (786, 30570),

Gene: Hannaconda_75 Start: 47285, Stop: 48559, Start Num: 69

Candidate Starts for Hannaconda_75:

(54, 47228), (Start: 65 @47270 has 1 MA's), (Start: 69 @47285 has 10 MA's), (72, 47288), (Start: 91 @47333 has 1 MA's), (Start: 112 @47372 has 1 MA's), (342, 47753), (418, 47837), (423, 47849), (424, 47852), (491, 47981), (575, 48101), (609, 48164), (619, 48182), (631, 48206), (672, 48278), (737, 48455), (738, 48458), (740, 48464), (745, 48482), (752, 48497), (757, 48506), (759, 48509), (779, 48554),

Gene: HannahPhantana_37 Start: 24015, Stop: 22828, Start Num: 147

Candidate Starts for HannahPhantana_37:

(87, 24105), (Start: 147 @24015 has 63 MA's), (379, 23586), (624, 23151), (714, 23016),

Gene: HarryHoudini_36 Start: 26909, Stop: 25782, Start Num: 157

Candidate Starts for HarryHoudini_36:

(114, 26963), (Start: 157 @26909 has 6 MA's), (Start: 180 @26876 has 10 MA's), (Start: 195 @26846 has 8 MA's), (Start: 218 @26792 has 6 MA's), (243, 26747), (350, 26564), (393, 26528), (424, 26471), (464, 26393), (491, 26348), (503, 26330), (551, 26240), (559, 26228), (582, 26207), (609, 26153), (613, 26147), (622, 26126), (629, 26111), (639, 26093), (657, 26066), (718, 25955), (730, 25910), (731, 25907), (732, 25904), (738, 25877), (740, 25871), (743, 25859), (761, 25820),

Gene: HaveUMetTed_36 Start: 26636, Stop: 25491, Start Num: 152

Candidate Starts for HaveUMetTed_36:

(Start: 103 @26699 has 3 MA's), (Start: 152 @26636 has 119 MA's), (Start: 188 @26582 has 14 MA's), (Start: 218 @26513 has 6 MA's), (346, 26294), (350, 26285), (393, 26249), (424, 26192), (464, 26114), (486, 26081), (540, 25979), (551, 25961), (559, 25949), (609, 25874), (613, 25868), (622, 25847), (629, 25832), (639, 25814), (730, 25631), (731, 25628), (738, 25598), (740, 25592), (743, 25580), (761, 25541),

Gene: Heathen_33 Start: 26105, Stop: 24978, Start Num: 152

Candidate Starts for Heathen_33:

(Start: 152 @26105 has 119 MA's), (205, 26018), (Start: 218 @25982 has 6 MA's), (243, 25937), (337, 25781), (343, 25769), (346, 25763), (393, 25718), (423, 25664), (424, 25661), (436, 25637), (540, 25448), (551, 25430), (559, 25418), (592, 25379), (609, 25343), (613, 25337), (622, 25316), (629, 25301), (639, 25283), (718, 25145), (731, 25097), (738, 25067), (740, 25061), (743, 25049), (761, 25010),

Gene: HedwigODU_41 Start: 32479, Stop: 33567, Start Num: 163

Candidate Starts for HedwigODU_41:

(Start: 163 @32479 has 283 MA's), (190, 32530), (Start: 218 @32581 has 6 MA's), (231, 32605), (253, 32641), (337, 32779), (371, 32833), (429, 32917), (465, 32986), (466, 32989), (556, 33139), (603, 33217), (618, 33244), (675, 33331), (715, 33379),

Gene: Heffalump_35 Start: 27571, Stop: 26564, Start Num: 218

Candidate Starts for Heffalump_35:

(Start: 139 @27706 has 1 MA's), (Start: 218 @27571 has 6 MA's), (237, 27535), (243, 27526), (318, 27397), (393, 27307), (448, 27196), (464, 27172), (486, 27139), (491, 27127), (551, 27019), (554, 27016), (609, 26932), (613, 26926), (622, 26905), (629, 26890), (639, 26872), (731, 26686), (738, 26656), (740, 26650), (743, 26638), (761, 26599), (774, 26575),

Gene: Hegedechwinu_41 Start: 30918, Stop: 32036, Start Num: 163

Candidate Starts for Hegedechwinu_41:

(Start: 163 @30918 has 283 MA's), (232, 31056), (253, 31089), (284, 31137), (346, 31254), (371, 31290), (382, 31299), (438, 31404), (468, 31473), (491, 31512), (501, 31530), (504, 31533), (512, 31545), (513, 31548), (519, 31560), (529, 31575), (539, 31599), (543, 31605), (560, 31626), (590, 31662), (592, 31665), (609, 31701), (613, 31707), (618, 31719), (620, 31722), (625, 31737), (675, 31806), (682, 31821), (717, 31863), (727, 31908), (730, 31917), (740, 31956), (745, 31974), (755, 31995), (762, 32010), (766, 32019), (768, 32022),

Gene: HelDan_33 Start: 26357, Stop: 25230, Start Num: 152

Candidate Starts for HelDan_33:

(Start: 152 @26357 has 119 MA's), (205, 26270), (Start: 218 @26234 has 6 MA's), (243, 26189), (337, 26033), (343, 26021), (346, 26015), (393, 25970), (423, 25916), (424, 25913), (436, 25889), (540, 25700), (551, 25682), (559, 25670), (592, 25631), (609, 25595), (613, 25589), (622, 25568), (629,

25553), (639, 25535), (718, 25397), (731, 25349), (738, 25319), (740, 25313), (743, 25301), (761, 25262),

Gene: Heliosoles_35 Start: 26643, Stop: 25498, Start Num: 152

Candidate Starts for Heliosoles_35:

(Start: 103 @26706 has 3 MA's), (Start: 152 @26643 has 119 MA's), (Start: 188 @26589 has 14 MA's), (Start: 218 @26520 has 6 MA's), (346, 26301), (350, 26292), (393, 26256), (424, 26199), (464, 26121), (486, 26088), (540, 25986), (551, 25968), (559, 25956), (609, 25881), (613, 25875), (622, 25854), (629, 25839), (639, 25821), (655, 25797), (730, 25638), (731, 25635), (738, 25605), (740, 25599), (743, 25587), (761, 25548),

Gene: Hercules11_36 Start: 26798, Stop: 25653, Start Num: 152

Candidate Starts for Hercules11_36:

(Start: 152 @26798 has 119 MA's), (Start: 180 @26759 has 10 MA's), (205, 26711), (Start: 218 @26675 has 6 MA's), (243, 26630), (337, 26474), (350, 26447), (393, 26411), (424, 26354), (464, 26276), (477, 26252), (503, 26213), (540, 26141), (546, 26129), (551, 26123), (559, 26111), (609, 26036), (613, 26030), (622, 26009), (629, 25994), (639, 25976), (655, 25952), (718, 25838), (730, 25793), (731, 25790), (734, 25781), (738, 25760), (740, 25754), (743, 25742), (761, 25703),

Gene: Herod_39 Start: 31901, Stop: 33094, Start Num: 86

Candidate Starts for Herod_39:

(Start: 86 @31901 has 6 MA's), (Start: 159 @32012 has 52 MA's), (190, 32066), (261, 32186), (419, 32432), (423, 32441), (438, 32471), (466, 32531), (506, 32597), (519, 32621), (723, 32951), (729, 32978), (766, 33083),

Gene: Hestia_38 Start: 27099, Stop: 25888, Start Num: 110

Candidate Starts for Hestia_38:

(Start: 103 @27108 has 3 MA's), (Start: 110 @27099 has 1 MA's), (Start: 149 @27051 has 1 MA's), (202, 26958), (307, 26742), (382, 26661), (422, 26598), (439, 26562), (460, 26535), (632, 26247), (648, 26214), (659, 26193), (734, 26019), (738, 25998), (747, 25968), (770, 25929),

Gene: Hestia_36 Start: 24611, Stop: 25531, Start Num: 279

Candidate Starts for Hestia_36:

(208, 24482), (211, 24488), (Start: 279 @24611 has 58 MA's), (380, 24785), (387, 24797), (451, 24944), (490, 24992), (535, 25061), (537, 25067), (618, 25193), (662, 25277), (720, 25373), (726, 25397), (730, 25412), (732, 25418), (761, 25499),

Gene: Hillester_36 Start: 24572, Stop: 25492, Start Num: 279

Candidate Starts for Hillester_36:

(208, 24443), (217, 24470), (Start: 279 @24572 has 58 MA's), (342, 24686), (380, 24746), (387, 24758), (410, 24815), (451, 24905), (490, 24953), (535, 25022), (537, 25028), (558, 25061), (579, 25085), (726, 25358), (730, 25373), (732, 25379),

Gene: Hillester_40 Start: 27831, Stop: 26659, Start Num: 163

Candidate Starts for Hillester_40:

(Start: 163 @27831 has 283 MA's), (190, 27780), (253, 27666), (289, 27612), (299, 27594), (339, 27522), (361, 27480), (388, 27462), (424, 27384), (429, 27372), (465, 27297), (470, 27288), (506, 27228), (557, 27138), (620, 27033), (630, 27012), (641, 26988), (645, 26985), (689, 26916), (717, 26862), (723, 26838), (726, 26823), (770, 26703), (783, 26676),

Gene: Hlubikazi_41 Start: 31787, Stop: 32905, Start Num: 163

Candidate Starts for Hlubikazi_41:

(Start: 163 @31787 has 283 MA's), (253, 31958), (346, 32123), (371, 32159), (382, 32168), (438, 32273), (468, 32342), (491, 32381), (504, 32402), (512, 32414), (513, 32417), (519, 32429), (539, 32468), (543, 32474), (560, 32495), (590, 32531), (592, 32534), (609, 32570), (613, 32576), (618, 32588), (620, 32591), (625, 32606), (675, 32675), (682, 32690), (708, 32708), (727, 32777), (730, 32786), (740, 32825), (745, 32843), (755, 32864), (762, 32879), (766, 32888), (768, 32891),

Gene: HokkenD_73 Start: 51332, Stop: 52561, Start Num: 85

Candidate Starts for HokkenD_73:

(Start: 85 @51332 has 29 MA's), (Start: 91 @51350 has 1 MA's), (Start: 112 @51389 has 1 MA's), (Start: 254 @51626 has 1 MA's), (318, 51734), (418, 51854), (419, 51857), (423, 51866), (429, 51881), (447, 51920), (491, 51998), (556, 52103), (562, 52115), (575, 52118), (582, 52127), (607, 52178), (609, 52181), (619, 52199), (672, 52295), (709, 52352), (737, 52472), (738, 52475), (745, 52499), (757, 52523), (759, 52526),

Gene: Holliday_48 Start: 32014, Stop: 33084, Start Num: 163

Candidate Starts for Holliday_48:

(143, 31993), (Start: 163 @32014 has 283 MA's), (190, 32065), (216, 32113), (250, 32170), (284, 32215), (429, 32449), (439, 32467), (491, 32566), (512, 32599), (513, 32602), (519, 32614), (623, 32782), (692, 32881), (703, 32890), (723, 32941), (729, 32968), (736, 32998), (738, 33004), (742, 33016), (766, 33073),

Gene: Homura_41 Start: 32595, Stop: 33683, Start Num: 163

Candidate Starts for Homura_41:

(16, 31992), (24, 32169), (41, 32334), (51, 32373), (Start: 163 @32595 has 283 MA's), (190, 32646), (Start: 218 @32697 has 6 MA's), (231, 32721), (253, 32757), (337, 32895), (429, 33033), (465, 33102), (466, 33105), (556, 33255), (618, 33360), (715, 33495),

Gene: Hortense_36 Start: 30765, Stop: 31682, Start Num: 279

Candidate Starts for Hortense_36:

(Start: 275 @30759 has 15 MA's), (Start: 279 @30765 has 58 MA's), (387, 30945), (393, 30954), (396, 30960), (483, 31131), (491, 31146), (533, 31203), (535, 31209), (537, 31215), (546, 31230), (612, 31329), (615, 31335), (621, 31347), (662, 31422), (675, 31446), (676, 31449), (711, 31485), (714, 31491), (716, 31503), (742, 31605),

Gene: Hortense_40 Start: 32549, Stop: 33676, Start Num: 163

Candidate Starts for Hortense_40:

(129, 32510), (Start: 163 @32549 has 283 MA's), (190, 32603), (250, 32726), (276, 32759), (321, 32849), (343, 32882), (465, 33077), (466, 33080), (491, 33122), (513, 33158), (700, 33455), (723, 33533), (729, 33560), (734, 33575), (740, 33602), (766, 33665),

Gene: Horus_48 Start: 33163, Stop: 34260, Start Num: 163

Candidate Starts for Horus_48:

(60, 32983), (75, 33022), (Start: 163 @33163 has 283 MA's), (190, 33214), (232, 33292), (250, 33319), (284, 33364), (301, 33397), (303, 33406), (423, 33583), (424, 33586), (470, 33679), (491, 33715), (512, 33748), (513, 33751), (519, 33763), (622, 33928), (641, 33958), (692, 34030), (717, 34066), (723, 34090), (729, 34117), (742, 34165), (745, 34177), (768, 34225),

Gene: HotPotato_34 Start: 24923, Stop: 25843, Start Num: 279

Candidate Starts for HotPotato_34:

(Start: 279 @24923 has 58 MA's), (365, 25079), (380, 25097), (387, 25109), (451, 25256), (464, 25265), (490, 25304), (535, 25373), (537, 25379), (558, 25412), (595, 25454), (600, 25466), (720, 25685), (726, 25709), (730, 25724), (732, 25730), (761, 25811), (762, 25814),

Gene: Howe_40 Start: 32549, Stop: 33676, Start Num: 163

Candidate Starts for Howe_40:

(129, 32510), (Start: 163 @32549 has 283 MA's), (190, 32603), (250, 32726), (276, 32759), (321, 32849), (343, 32882), (465, 33077), (466, 33080), (491, 33122), (513, 33158), (700, 33455), (723, 33533), (729, 33560), (734, 33575), (740, 33602), (766, 33665),

Gene: Howe_36 Start: 30765, Stop: 31682, Start Num: 279

Candidate Starts for Howe_36:

(Start: 275 @30759 has 15 MA's), (Start: 279 @30765 has 58 MA's), (387, 30945), (393, 30954), (396, 30960), (483, 31131), (491, 31146), (533, 31203), (535, 31209), (537, 31215), (546, 31230), (612, 31329), (615, 31335), (621, 31347), (662, 31422), (675, 31446), (676, 31449), (711, 31485), (714, 31491), (716, 31503), (742, 31605),

Gene: Huffy_38 Start: 27370, Stop: 26255, Start Num: 174

Candidate Starts for Huffy_38:

(Start: 174 @27370 has 12 MA's), (351, 27031), (375, 26998), (532, 26704), (544, 26692), (645, 26512), (734, 26341), (740, 26314),

Gene: Hughesyang_81 Start: 53021, Stop: 54250, Start Num: 85

Candidate Starts for Hughesyang_81:

(Start: 85 @53021 has 29 MA's), (Start: 91 @53039 has 1 MA's), (Start: 112 @53078 has 1 MA's), (Start: 254 @53315 has 1 MA's), (318, 53423), (418, 53543), (419, 53546), (423, 53555), (429, 53570), (447, 53609), (491, 53687), (556, 53792), (562, 53804), (575, 53807), (582, 53816), (607, 53867), (609, 53870), (619, 53888), (672, 53984), (709, 54041), (737, 54161), (738, 54164), (745, 54188), (757, 54212), (759, 54215),

Gene: Hugley_36 Start: 32011, Stop: 33093, Start Num: 159

Candidate Starts for Hugley_36:

(Start: 86 @31900 has 6 MA's), (Start: 159 @32011 has 52 MA's), (190, 32065), (261, 32185), (419, 32431), (423, 32440), (438, 32470), (466, 32530), (506, 32596), (519, 32620), (723, 32950), (729, 32977), (766, 33082),

Gene: Hum25_34 Start: 25182, Stop: 24091, Start Num: 165

Candidate Starts for Hum25_34:

(Start: 146 @25206 has 1 MA's), (Start: 165 @25182 has 1 MA's), (248, 25011), (262, 24984), (292, 24945), (328, 24876), (341, 24855), (346, 24846), (377, 24789), (385, 24777), (387, 24774), (393, 24765), (398, 24753), (422, 24693), (425, 24684), (435, 24669), (501, 24603), (519, 24570), (534, 24543), (574, 24489), (587, 24468), (611, 24420), (613, 24417), (618, 24405), (622, 24396), (630, 24378), (631, 24375), (637, 24369), (643, 24357), (663, 24324), (714, 24270), (719, 24243), (738, 24171), (761, 24117),

Gene: Hyperbowlee_41 Start: 32792, Stop: 33880, Start Num: 163

Candidate Starts for Hyperbowlee_41:

(Start: 163 @32792 has 283 MA's), (Start: 218 @32894 has 6 MA's), (231, 32918), (253, 32954), (337, 33092), (429, 33230), (465, 33299), (466, 33302), (556, 33452), (618, 33557), (715, 33692),

Gene: Hyzer_43 Start: 33426, Stop: 34508, Start Num: 159

Candidate Starts for Hyzer_43:

(Start: 159 @33426 has 52 MA's), (190, 33480), (261, 33600), (423, 33855), (438, 33885), (466, 33945), (506, 34011), (519, 34035), (723, 34365), (742, 34440), (766, 34497),

Gene: IMpilo_40 Start: 31720, Stop: 32838, Start Num: 163

Candidate Starts for IMpilo_40:

(Start: 163 @31720 has 283 MA's), (168, 31729), (253, 31891), (346, 32056), (371, 32092), (382, 32101), (438, 32206), (468, 32275), (491, 32314), (504, 32335), (512, 32347), (513, 32350), (519, 32362), (529, 32377), (539, 32401), (543, 32407), (560, 32428), (590, 32464), (592, 32467), (609, 32503), (613, 32509), (618, 32521), (620, 32524), (625, 32539), (675, 32608), (682, 32623), (727, 32710), (730, 32719), (740, 32758), (745, 32776), (755, 32797), (762, 32812), (766, 32821), (768, 32824),

Gene: Ichiang_34 Start: 26018, Stop: 26938, Start Num: 279

Candidate Starts for Ichiang_34:

(Start: 254 @25976 has 1 MA's), (Start: 279 @26018 has 58 MA's), (365, 26174), (380, 26192), (387, 26204), (400, 26228), (451, 26351), (464, 26360), (490, 26399), (535, 26468), (537, 26474), (558, 26507), (579, 26531), (595, 26549), (600, 26561), (615, 26594), (618, 26600), (621, 26606), (720, 26780), (726, 26804), (730, 26819), (732, 26825), (761, 26906), (762, 26909),

Gene: Idleandcovert_33 Start: 26297, Stop: 25170, Start Num: 152

Candidate Starts for Idleandcovert_33:

(Start: 152 @26297 has 119 MA's), (205, 26210), (Start: 218 @26174 has 6 MA's), (243, 26129), (337, 25973), (343, 25961), (346, 25955), (393, 25910), (423, 25856), (424, 25853), (464, 25775), (551, 25622), (559, 25610), (592, 25571), (609, 25535), (613, 25529), (622, 25508), (629, 25493), (639, 25475), (657, 25448), (718, 25337), (731, 25289), (738, 25259), (740, 25253), (743, 25241), (761, 25202),

Gene: Illumine_44 Start: 33263, Stop: 34351, Start Num: 163

Candidate Starts for Illumine_44:

(Start: 163 @33263 has 283 MA's), (Start: 218 @33365 has 6 MA's), (231, 33389), (253, 33425), (289, 33476), (319, 33539), (337, 33563), (371, 33617), (378, 33620), (429, 33701), (465, 33770), (466, 33773), (556, 33923), (603, 34001), (618, 34028), (715, 34163),

Gene: Inky_41 Start: 32595, Stop: 33683, Start Num: 163

Candidate Starts for Inky_41:

(16, 31992), (24, 32169), (41, 32334), (51, 32373), (Start: 163 @32595 has 283 MA's), (190, 32646), (Start: 218 @32697 has 6 MA's), (231, 32721), (253, 32757), (337, 32895), (429, 33033), (465, 33102), (466, 33105), (556, 33255), (618, 33360), (715, 33495),

Gene: Invectra_37 Start: 28866, Stop: 29783, Start Num: 279

Candidate Starts for Invectra_37:

(Start: 275 @28860 has 15 MA's), (Start: 279 @28866 has 58 MA's), (393, 29055), (396, 29061), (438, 29163), (448, 29187), (491, 29247), (533, 29304), (535, 29310), (537, 29316), (612, 29430), (615, 29436), (621, 29448), (662, 29523), (675, 29547), (676, 29550), (711, 29586), (714, 29592), (721, 29625), (742, 29706),

Gene: Invectra_40 Start: 30570, Stop: 31697, Start Num: 163

Candidate Starts for Invectra_40:

(95, 30474), (134, 30537), (Start: 163 @30570 has 283 MA's), (190, 30624), (321, 30870), (343, 30903), (465, 31098), (466, 31101), (491, 31143), (513, 31179), (700, 31476), (723, 31554), (729, 31581), (734, 31596), (740, 31623), (766, 31686),

Gene: IrishSherpFalk_41 Start: 32488, Stop: 33606, Start Num: 163

Candidate Starts for IrishSherpFalk_41:

(Start: 163 @32488 has 283 MA's), (168, 32497), (253, 32659), (382, 32869), (424, 32950), (438, 32974), (468, 33043), (504, 33103), (512, 33115), (513, 33118), (519, 33130), (529, 33145), (539, 33169), (543, 33175), (560, 33196), (590, 33232), (592, 33235), (609, 33271), (613, 33277), (620, 33292), (675, 33376), (682, 33391), (717, 33433), (727, 33478), (730, 33487), (740, 33526), (745,

33544), (755, 33565), (762, 33580), (766, 33589), (768, 33592),

Gene: IronMan_36 Start: 28052, Stop: 26925, Start Num: 138

Candidate Starts for IronMan_36:

(Start: 123 @28070 has 7 MA's), (Start: 138 @28052 has 7 MA's), (Start: 218 @27923 has 6 MA's), (243, 27878), (350, 27695), (393, 27659), (424, 27602), (429, 27590), (503, 27461), (551, 27371), (559, 27359), (609, 27284), (622, 27257), (629, 27242), (639, 27224), (652, 27203), (718, 27086), (730, 27041), (731, 27038), (732, 27035), (738, 27008), (740, 27002), (743, 26990), (761, 26951),

Gene: IsHungry_32 Start: 25028, Stop: 25948, Start Num: 279

Candidate Starts for IsHungry_32:

(203, 24872), (208, 24896), (217, 24923), (240, 24962), (Start: 279 @25028 has 58 MA's), (292, 25052), (342, 25142), (365, 25184), (380, 25202), (387, 25214), (410, 25271), (451, 25361), (477, 25394), (490, 25409), (521, 25454), (535, 25478), (537, 25484), (558, 25517), (662, 25694), (676, 25721), (720, 25790), (726, 25814), (762, 25919),

Gene: Isca_33 Start: 26066, Stop: 24942, Start Num: 152

Candidate Starts for Isca_33:

(Start: 118 @26108 has 1 MA's), (Start: 152 @26066 has 119 MA's), (Start: 180 @26027 has 10 MA's), (205, 25979), (Start: 218 @25943 has 6 MA's), (243, 25898), (264, 25868), (318, 25769), (393, 25679), (448, 25568), (464, 25544), (491, 25499), (551, 25391), (559, 25379), (582, 25358), (609, 25304), (613, 25298), (622, 25277), (629, 25262), (639, 25244), (657, 25217), (718, 25106), (731, 25058), (732, 25055), (738, 25028), (740, 25022), (743, 25010), (752, 24989), (761, 24971),

Gene: Isolde_41 Start: 27878, Stop: 26739, Start Num: 163

Candidate Starts for Isolde_41:

(Start: 163 @27878 has 283 MA's), (190, 27827), (289, 27659), (299, 27641), (388, 27509), (424, 27431), (429, 27419), (465, 27344), (470, 27335), (506, 27275), (557, 27185), (620, 27080), (630, 27059), (645, 27032), (717, 26909), (723, 26885), (726, 26870), (761, 26765),

Gene: Isolde_36 Start: 24341, Stop: 25258, Start Num: 279

Candidate Starts for Isolde_36:

(208, 24212), (211, 24218), (Start: 279 @24341 has 58 MA's), (380, 24512), (387, 24524), (451, 24671), (490, 24719), (521, 24764), (535, 24788), (537, 24794), (558, 24827), (595, 24869), (599, 24878), (621, 24926), (662, 25004), (676, 25031), (730, 25139), (762, 25229),

Gene: Iwokeuplikedis_34 Start: 26178, Stop: 25060, Start Num: 152

Candidate Starts for Iwokeuplikedis_34:

(Start: 152 @26178 has 119 MA's), (Start: 218 @26055 has 6 MA's), (243, 26010), (339, 25851), (350, 25827), (393, 25791), (424, 25734), (464, 25656), (491, 25611), (503, 25593), (551, 25503), (559, 25491), (609, 25416), (622, 25389), (629, 25374), (639, 25356), (657, 25329), (718, 25218), (730, 25173), (731, 25170), (732, 25167), (738, 25140), (740, 25134), (743, 25122), (761, 25083),

Gene: JAWS_41 Start: 32469, Stop: 33557, Start Num: 163

Candidate Starts for JAWS_41:

(Start: 163 @32469 has 283 MA's), (Start: 218 @32571 has 6 MA's), (231, 32595), (253, 32631), (337, 32769), (429, 32907), (465, 32976), (466, 32979), (556, 33129), (618, 33234), (675, 33321), (715, 33369),

Gene: JCole_37 Start: 29060, Stop: 27801, Start Num: 147

Candidate Starts for JCole_37:

(Start: 147 @29060 has 63 MA's), (317, 28730), (344, 28685), (379, 28625), (387, 28613), (408, 28568), (439, 28496), (560, 28328), (563, 28325), (618, 28232), (646, 28172), (707, 28055), (714,

28043), (719, 28016), (727, 27986), (743, 27926), (748, 27911), (757, 27899), (761, 27890), (778, 27851),

Gene: JF2_33 Start: 25816, Stop: 24692, Start Num: 152

Candidate Starts for JF2_33:

(Start: 118 @25858 has 1 MA's), (Start: 152 @25816 has 119 MA's), (Start: 218 @25693 has 6 MA's), (243, 25648), (289, 25576), (313, 25528), (346, 25474), (350, 25465), (393, 25429), (424, 25372), (551, 25141), (559, 25129), (582, 25108), (609, 25054), (613, 25048), (622, 25027), (629, 25012), (639, 24994), (657, 24967), (718, 24856), (731, 24808), (732, 24805), (738, 24778), (740, 24772), (743, 24760), (752, 24739), (761, 24721),

Gene: JF4_33 Start: 25816, Stop: 24692, Start Num: 152

Candidate Starts for JF4_33:

(Start: 118 @25858 has 1 MA's), (Start: 152 @25816 has 119 MA's), (Start: 218 @25693 has 6 MA's), (243, 25648), (289, 25576), (313, 25528), (346, 25474), (350, 25465), (393, 25429), (424, 25372), (551, 25141), (559, 25129), (582, 25108), (609, 25054), (613, 25048), (622, 25027), (629, 25012), (639, 24994), (657, 24967), (718, 24856), (731, 24808), (732, 24805), (738, 24778), (740, 24772), (743, 24760), (752, 24739), (761, 24721),

Gene: JHC117_36 Start: 26788, Stop: 25643, Start Num: 152

Candidate Starts for JHC117_36:

(Start: 152 @26788 has 119 MA's), (Start: 180 @26749 has 10 MA's), (205, 26701), (Start: 218 @26665 has 6 MA's), (243, 26620), (337, 26464), (350, 26437), (393, 26401), (424, 26344), (464, 26266), (477, 26242), (503, 26203), (540, 26131), (546, 26119), (551, 26113), (559, 26101), (609, 26026), (613, 26020), (622, 25999), (629, 25984), (639, 25966), (655, 25942), (718, 25828), (730, 25783), (731, 25780), (734, 25771), (738, 25750), (740, 25744), (743, 25732), (761, 25693),

Gene: Jaan_37 Start: 28459, Stop: 27326, Start Num: 140

Candidate Starts for Jaan_37:

(Start: 140 @28459 has 3 MA's), (Start: 218 @28324 has 6 MA's), (243, 28279), (246, 28273), (274, 28234), (337, 28123), (350, 28096), (393, 28060), (418, 28018), (423, 28006), (424, 28003), (477, 27901), (551, 27772), (559, 27760), (609, 27685), (613, 27679), (622, 27658), (629, 27643), (639, 27625), (668, 27574), (718, 27487), (731, 27439), (738, 27409), (740, 27403), (743, 27391), (761, 27352),

Gene: Jablanski_34 Start: 28854, Stop: 29789, Start Num: 275

Candidate Starts for Jablanski_34:

(246, 28800), (Start: 275 @28854 has 15 MA's), (348, 28986), (410, 29103), (438, 29163), (439, 29166), (448, 29187), (530, 29298), (535, 29310), (595, 29391), (620, 29445), (622, 29451), (630, 29469), (662, 29529), (675, 29553), (676, 29556), (711, 29592), (714, 29598), (733, 29676), (749, 29736),

Gene: Jablanski_39 Start: 31311, Stop: 32393, Start Num: 159

Candidate Starts for Jablanski_39:

(Start: 86 @31200 has 6 MA's), (Start: 159 @31311 has 52 MA's), (190, 31365), (261, 31485), (438, 31770), (466, 31830), (506, 31896), (519, 31920), (723, 32250), (729, 32277), (766, 32382),

Gene: James_43 Start: 32094, Stop: 33212, Start Num: 163

Candidate Starts for James_43:

(Start: 163 @32094 has 283 MA's), (232, 32232), (253, 32265), (284, 32313), (346, 32430), (371, 32466), (382, 32475), (438, 32580), (468, 32649), (504, 32709), (512, 32721), (513, 32724), (519, 32736), (529, 32751), (539, 32775), (543, 32781), (560, 32802), (590, 32838), (592, 32841), (609, 32877), (613, 32883), (618, 32895), (620, 32898), (675, 32982), (682, 32997), (717, 33039), (727,

33084), (730, 33093), (740, 33132), (745, 33150), (755, 33171), (762, 33186), (766, 33195), (768, 33198),

Gene: Jamun_33 Start: 24299, Stop: 23115, Start Num: 147

Candidate Starts for Jamun_33:

(Start: 147 @24299 has 63 MA's), (263, 24080), (271, 24071), (341, 23945), (390, 23855), (620, 23447), (624, 23435), (633, 23417), (719, 23273), (722, 23264),

Gene: Jarvi_41 Start: 32595, Stop: 33683, Start Num: 163

Candidate Starts for Jarvi_41:

(16, 31992), (24, 32169), (41, 32334), (51, 32373), (Start: 163 @32595 has 283 MA's), (190, 32646), (Start: 218 @32697 has 6 MA's), (231, 32721), (253, 32757), (337, 32895), (429, 33033), (465, 33102), (466, 33105), (556, 33255), (618, 33360), (715, 33495),

Gene: Jayhawk_42 Start: 32477, Stop: 33565, Start Num: 163

Candidate Starts for Jayhawk_42:

(Start: 163 @32477 has 283 MA's), (190, 32528), (Start: 218 @32579 has 6 MA's), (231, 32603), (253, 32639), (337, 32777), (371, 32831), (429, 32915), (465, 32984), (466, 32987), (556, 33137), (603, 33215), (618, 33242), (675, 33329), (715, 33377),

Gene: Jeckyll_41 Start: 32595, Stop: 33683, Start Num: 163

Candidate Starts for Jeckyll_41:

(16, 31992), (24, 32169), (41, 32334), (51, 32373), (Start: 163 @32595 has 283 MA's), (190, 32646), (Start: 218 @32697 has 6 MA's), (231, 32721), (253, 32757), (337, 32895), (429, 33033), (465, 33102), (466, 33105), (556, 33255), (618, 33360), (715, 33495),

Gene: JenCasNa_36 Start: 26750, Stop: 25644, Start Num: 180

Candidate Starts for JenCasNa_36:

(Start: 152 @26789 has 119 MA's), (Start: 180 @26750 has 10 MA's), (205, 26702), (Start: 218 @26666 has 6 MA's), (243, 26621), (337, 26465), (350, 26438), (393, 26402), (424, 26345), (464, 26267), (477, 26243), (503, 26204), (540, 26132), (546, 26120), (551, 26114), (559, 26102), (609, 26027), (613, 26021), (622, 26000), (629, 25985), (639, 25967), (655, 25943), (718, 25829), (730, 25784), (731, 25781), (734, 25772), (738, 25751), (740, 25745), (743, 25733), (761, 25694),

Gene: JeppNRM_36 Start: 26642, Stop: 25497, Start Num: 152

Candidate Starts for JeppNRM_36:

(Start: 103 @26705 has 3 MA's), (Start: 152 @26642 has 119 MA's), (Start: 188 @26588 has 14 MA's), (Start: 218 @26519 has 6 MA's), (346, 26300), (350, 26291), (393, 26255), (424, 26198), (464, 26120), (477, 26096), (486, 26087), (540, 25985), (551, 25967), (559, 25955), (609, 25880), (613, 25874), (622, 25853), (629, 25838), (639, 25820), (655, 25796), (730, 25637), (731, 25634), (738, 25604), (740, 25598), (743, 25586), (761, 25547),

Gene: Jerm_35 Start: 26752, Stop: 25625, Start Num: 138

Candidate Starts for Jerm_35:

(Start: 123 @26770 has 7 MA's), (Start: 138 @26752 has 7 MA's), (Start: 195 @26668 has 8 MA's), (Start: 218 @26620 has 6 MA's), (243, 26575), (350, 26392), (393, 26356), (424, 26299), (429, 26287), (486, 26188), (491, 26176), (503, 26158), (551, 26068), (609, 25981), (613, 25975), (622, 25954), (629, 25939), (639, 25921), (657, 25894), (718, 25783), (731, 25735), (732, 25732), (738, 25705), (740, 25699), (743, 25687), (761, 25648),

Gene: Jobu08_35 Start: 26620, Stop: 25475, Start Num: 152

Candidate Starts for Jobu08_35:

(Start: 152 @26620 has 119 MA's), (Start: 180 @26581 has 10 MA's), (205, 26533), (Start: 218 @26497 has 6 MA's), (243, 26452), (337, 26296), (350, 26269), (393, 26233), (424, 26176), (464, 26098), (477, 26074), (503, 26035), (540, 25963), (546, 25951), (551, 25945), (559, 25933), (609, 25858), (613, 25852), (622, 25831), (629, 25816), (639, 25798), (718, 25660), (730, 25615), (731, 25612), (734, 25603), (738, 25582), (740, 25576), (743, 25564), (761, 25525),

Gene: JoshKayV_35 Start: 26714, Stop: 25599, Start Num: 156

Candidate Starts for JoshKayV_35:

(Start: 156 @26714 has 17 MA's), (Start: 218 @26594 has 6 MA's), (243, 26549), (337, 26393), (350, 26366), (393, 26330), (424, 26273), (429, 26261), (464, 26195), (503, 26132), (551, 26042), (609, 25955), (613, 25949), (622, 25928), (629, 25913), (639, 25895), (668, 25844), (718, 25757), (731, 25709), (738, 25679), (740, 25673), (743, 25661), (761, 25622),

Gene: Journey13_31 Start: 25582, Stop: 24464, Start Num: 152

Candidate Starts for Journey13_31:

(67, 25732), (Start: 106 @25642 has 1 MA's), (Start: 152 @25582 has 119 MA's), (Start: 188 @25528 has 14 MA's), (Start: 218 @25459 has 6 MA's), (226, 25441), (Start: 275 @25366 has 15 MA's), (Start: 279 @25360 has 58 MA's), (337, 25258), (343, 25246), (393, 25195), (424, 25138), (438, 25111), (529, 24952), (551, 24907), (559, 24895), (609, 24820), (613, 24814), (622, 24793), (629, 24778), (639, 24760), (657, 24733), (718, 24622), (731, 24574), (732, 24571), (738, 24544), (740, 24538), (743, 24526), (761, 24487),

Gene: Joy99_41 Start: 32524, Stop: 33612, Start Num: 163

Candidate Starts for Joy99_41:

(16, 31921), (24, 32098), (41, 32263), (51, 32302), (Start: 163 @32524 has 283 MA's), (190, 32575), (Start: 218 @32626 has 6 MA's), (231, 32650), (253, 32686), (261, 32695), (337, 32824), (429, 32962), (465, 33031), (466, 33034), (556, 33184), (618, 33289), (715, 33424),

Gene: Jsquared_34 Start: 25672, Stop: 24548, Start Num: 152

Candidate Starts for Jsquared_34:

(Start: 152 @25672 has 119 MA's), (200, 25594), (Start: 218 @25549 has 6 MA's), (243, 25504), (284, 25444), (350, 25321), (393, 25285), (423, 25231), (424, 25228), (464, 25150), (491, 25105), (493, 25102), (503, 25087), (519, 25057), (546, 25003), (551, 24997), (582, 24964), (609, 24910), (622, 24883), (629, 24868), (639, 24850), (657, 24823), (718, 24712), (731, 24664), (732, 24661), (734, 24655), (738, 24634), (740, 24628), (743, 24616), (761, 24577),

Gene: Judy_35 Start: 24877, Stop: 25797, Start Num: 279

Candidate Starts for Judy_35:

(Start: 279 @24877 has 58 MA's), (365, 25033), (380, 25051), (387, 25063), (451, 25210), (464, 25219), (490, 25258), (535, 25327), (537, 25333), (558, 25366), (595, 25408), (618, 25459), (720, 25639), (726, 25663), (730, 25678), (732, 25684), (761, 25765), (762, 25768),

Gene: Judy_39 Start: 26980, Stop: 28122, Start Num: 163

Candidate Starts for Judy_39:

(Start: 163 @26980 has 283 MA's), (361, 27334), (368, 27340), (384, 27355), (411, 27409), (438, 27466), (465, 27526), (466, 27529), (483, 27556), (519, 27619), (592, 27739), (614, 27787), (682, 27913), (695, 27925), (730, 28021), (753, 28096),

Gene: Juice456_44 Start: 33520, Stop: 34638, Start Num: 163

Candidate Starts for Juice456_44:

(Start: 163 @33520 has 283 MA's), (232, 33658), (253, 33691), (284, 33739), (346, 33856), (371, 33892), (382, 33901), (438, 34006), (468, 34075), (491, 34114), (501, 34132), (504, 34135), (512, 34147), (513, 34150), (519, 34162), (529, 34177), (539, 34201), (543, 34207), (560, 34228), (590,

34264), (592, 34267), (609, 34303), (613, 34309), (618, 34321), (620, 34324), (625, 34339), (675, 34408), (682, 34423), (717, 34465), (727, 34510), (730, 34519), (740, 34558), (745, 34576), (755, 34597), (762, 34612), (766, 34621), (768, 34624),

Gene: Juicebox_26 Start: 25055, Stop: 23880, Start Num: 151

Candidate Starts for Juicebox_26:

(Start: 151 @25055 has 3 MA's), (181, 25028), (234, 24917), (284, 24833), (313, 24773), (329, 24749), (375, 24671), (390, 24650), (394, 24641), (434, 24545), (446, 24518), (474, 24485), (505, 24428), (511, 24419), (515, 24410), (520, 24401), (521, 24398), (527, 24392), (533, 24380), (576, 24314), (608, 24266), (622, 24242), (643, 24200), (645, 24197), (646, 24194), (662, 24173), (691, 24125), (717, 24092), (726, 24053), (730, 24038), (738, 24005), (775, 23921), (788, 23897),

Gene: JuicyJay_79 Start: 54197, Stop: 55426, Start Num: 85

Candidate Starts for JuicyJay_79:

(Start: 85 @54197 has 29 MA's), (Start: 91 @54215 has 1 MA's), (Start: 112 @54254 has 1 MA's), (Start: 254 @54491 has 1 MA's), (318, 54599), (418, 54719), (419, 54722), (423, 54731), (429, 54746), (447, 54785), (491, 54863), (556, 54968), (562, 54980), (575, 54983), (582, 54992), (607, 55043), (609, 55046), (619, 55064), (672, 55160), (709, 55217), (737, 55337), (738, 55340), (745, 55364), (757, 55388), (759, 55391),

Gene: Julie_35 Start: 26941, Stop: 27861, Start Num: 279

Candidate Starts for Julie_35:

(208, 26809), (211, 26815), (217, 26836), (240, 26875), (Start: 279 @26941 has 58 MA's), (292, 26965), (342, 27055), (365, 27097), (380, 27115), (387, 27127), (451, 27274), (490, 27322), (521, 27367), (535, 27391), (537, 27397), (558, 27430), (595, 27472), (662, 27607), (676, 27634), (720, 27703), (726, 27727), (762, 27832),

Gene: Juniper1_40 Start: 31679, Stop: 32797, Start Num: 163

Candidate Starts for Juniper1_40:

(Start: 163 @31679 has 283 MA's), (253, 31850), (284, 31898), (371, 32051), (382, 32060), (424, 32141), (468, 32234), (504, 32294), (512, 32306), (513, 32309), (529, 32336), (539, 32360), (560, 32387), (590, 32423), (592, 32426), (609, 32462), (625, 32498), (675, 32567), (682, 32582), (708, 32600), (727, 32669), (730, 32678), (740, 32717), (745, 32735), (762, 32771), (766, 32780), (768, 32783),

Gene: Juno112_35 Start: 23916, Stop: 22723, Start Num: 147

Candidate Starts for Juno112_35:

(Start: 147 @23916 has 63 MA's), (379, 23487), (408, 23430), (417, 23406), (555, 23178), (624, 23052), (630, 23040), (640, 23019), (722, 22881), (743, 22800), (766, 22752),

Gene: KHumphrey_36 Start: 23915, Stop: 22722, Start Num: 147

Candidate Starts for KHumphrey_36:

(Start: 147 @23915 has 63 MA's), (379, 23486), (408, 23429), (417, 23405), (555, 23177), (624, 23051), (630, 23039), (640, 23018), (722, 22880), (743, 22799), (766, 22751),

Gene: Kachowdy_33 Start: 26270, Stop: 25230, Start Num: 205

Candidate Starts for Kachowdy_33:

(Start: 152 @26357 has 119 MA's), (205, 26270), (Start: 218 @26234 has 6 MA's), (243, 26189), (337, 26033), (343, 26021), (346, 26015), (393, 25970), (423, 25916), (424, 25913), (436, 25889), (540, 25700), (551, 25682), (559, 25670), (592, 25631), (609, 25595), (613, 25589), (622, 25568), (629, 25553), (639, 25535), (718, 25397), (731, 25349), (738, 25319), (740, 25313), (743, 25301), (761, 25262),

Gene: Kalah2_76 Start: 52356, Stop: 53585, Start Num: 85

Candidate Starts for Kalah2_76:

(Start: 85 @52356 has 29 MA's), (Start: 91 @52374 has 1 MA's), (Start: 112 @52413 has 1 MA's), (Start: 254 @52650 has 1 MA's), (318, 52758), (418, 52878), (419, 52881), (423, 52890), (429, 52905), (447, 52944), (491, 53022), (556, 53127), (562, 53139), (575, 53142), (582, 53151), (607, 53202), (609, 53205), (619, 53223), (672, 53319), (709, 53376), (737, 53496), (738, 53499), (745, 53523), (757, 53547), (759, 53550),

Gene: Kalb97_36 Start: 26642, Stop: 25497, Start Num: 152

Candidate Starts for Kalb97_36:

(Start: 103 @26705 has 3 MA's), (Start: 152 @26642 has 119 MA's), (Start: 188 @26588 has 14 MA's), (Start: 218 @26519 has 6 MA's), (346, 26300), (350, 26291), (393, 26255), (424, 26198), (464, 26120), (486, 26087), (540, 25985), (551, 25967), (559, 25955), (609, 25880), (613, 25874), (622, 25853), (629, 25838), (639, 25820), (655, 25796), (730, 25637), (731, 25634), (738, 25604), (740, 25598), (743, 25586), (761, 25547),

Gene: Kalnoky_36 Start: 26643, Stop: 25498, Start Num: 152

Candidate Starts for Kalnoky_36:

(Start: 103 @26706 has 3 MA's), (Start: 152 @26643 has 119 MA's), (Start: 188 @26589 has 14 MA's), (Start: 218 @26520 has 6 MA's), (346, 26301), (350, 26292), (393, 26256), (424, 26199), (464, 26121), (486, 26088), (540, 25986), (551, 25968), (559, 25956), (609, 25881), (613, 25875), (622, 25854), (629, 25839), (639, 25821), (655, 25797), (730, 25638), (731, 25635), (738, 25605), (740, 25599), (743, 25587), (761, 25548),

Gene: Kalpine_35 Start: 27525, Stop: 26410, Start Num: 156

Candidate Starts for Kalpine_35:

(Start: 156 @27525 has 17 MA's), (Start: 218 @27405 has 6 MA's), (243, 27360), (289, 27288), (346, 27186), (350, 27177), (393, 27141), (419, 27096), (423, 27087), (424, 27084), (486, 26973), (491, 26961), (551, 26853), (559, 26841), (601, 26784), (609, 26766), (613, 26760), (622, 26739), (629, 26724), (639, 26706), (657, 26679), (718, 26568), (731, 26520), (738, 26490), (740, 26484), (743, 26472), (761, 26433),

Gene: Kamaru_44 Start: 31555, Stop: 32652, Start Num: 163

Candidate Starts for Kamaru_44:

(31, 31219), (47, 31315), (115, 31498), (Start: 163 @31555 has 283 MA's), (190, 31606), (228, 31678), (232, 31684), (250, 31711), (284, 31756), (303, 31798), (371, 31906), (423, 31975), (429, 31990), (466, 32065), (491, 32107), (512, 32140), (513, 32143), (519, 32155), (592, 32257), (641, 32350), (692, 32422), (717, 32458), (723, 32482), (729, 32509), (742, 32557), (768, 32617),

Gene: Kampy_33 Start: 26181, Stop: 25129, Start Num: 195

Candidate Starts for Kampy_33:

(Start: 116 @26295 has 3 MA's), (135, 26268), (Start: 152 @26250 has 119 MA's), (Start: 195 @26181 has 8 MA's), (Start: 218 @26127 has 6 MA's), (346, 25908), (350, 25899), (393, 25863), (418, 25821), (423, 25809), (424, 25806), (464, 25728), (540, 25593), (551, 25575), (609, 25488), (613, 25482), (622, 25461), (629, 25446), (639, 25428), (718, 25290), (731, 25242), (738, 25212), (740, 25206), (743, 25194), (761, 25155),

Gene: Karkharias_34 Start: 24280, Stop: 25200, Start Num: 279

Candidate Starts for Karkharias_34:

(Start: 254 @24238 has 1 MA's), (Start: 279 @24280 has 58 MA's), (365, 24436), (380, 24454), (387, 24466), (451, 24613), (464, 24622), (490, 24661), (535, 24730), (537, 24736), (558, 24769), (595, 24811), (600, 24823), (720, 25042), (726, 25066), (730, 25081), (732, 25087), (761, 25168), (762, 25171),

Gene: KashFlow_76 Start: 48091, Stop: 49320, Start Num: 85

Candidate Starts for KashFlow_76:

(Start: 85 @48091 has 29 MA's), (Start: 91 @48109 has 1 MA's), (Start: 112 @48148 has 1 MA's), (Start: 254 @48385 has 1 MA's), (318, 48493), (418, 48613), (419, 48616), (423, 48625), (429, 48640), (447, 48679), (491, 48757), (562, 48874), (575, 48877), (582, 48886), (607, 48937), (609, 48940), (619, 48958), (672, 49054), (709, 49111), (737, 49231), (738, 49234), (745, 49258), (757, 49282), (759, 49285),

Gene: KayMoney_35 Start: 24398, Stop: 25318, Start Num: 279

Candidate Starts for KayMoney_35:

(Start: 279 @24398 has 58 MA's), (365, 24554), (380, 24572), (387, 24584), (451, 24731), (464, 24740), (490, 24779), (535, 24848), (537, 24854), (558, 24887), (595, 24929), (618, 24980), (720, 25160), (726, 25184), (730, 25199), (732, 25205), (761, 25286), (762, 25289),

Gene: KayMoney_38 Start: 26157, Stop: 27299, Start Num: 163

Candidate Starts for KayMoney_38:

(155, 26148), (Start: 163 @26157 has 283 MA's), (368, 26517), (386, 26535), (438, 26643), (465, 26703), (519, 26796), (592, 26916), (614, 26964), (630, 26994), (682, 27090), (730, 27198), (753, 27273),

Gene: KendraB23_42 Start: 25277, Stop: 24093, Start Num: 147

Candidate Starts for KendraB23_42:

(Start: 147 @25277 has 63 MA's), (263, 25058), (Start: 275 @25040 has 15 MA's), (341, 24923), (379, 24848), (381, 24845), (570, 24518), (620, 24425), (624, 24413), (633, 24395), (714, 24278), (722, 24242),

Gene: Kenna_49 Start: 32526, Stop: 33596, Start Num: 163

Candidate Starts for Kenna_49:

(Start: 163 @32526 has 283 MA's), (190, 32577), (232, 32655), (250, 32682), (371, 32877), (382, 32886), (419, 32937), (423, 32946), (424, 32949), (429, 32961), (450, 33006), (470, 33042), (491, 33078), (512, 33111), (513, 33114), (519, 33126), (623, 33294), (692, 33393), (723, 33453), (729, 33480), (730, 33483), (736, 33510), (738, 33516), (742, 33528), (766, 33585),

Gene: Kenuha5_39 Start: 31177, Stop: 32295, Start Num: 163

Candidate Starts for Kenuha5_39:

(Start: 163 @31177 has 283 MA's), (253, 31348), (346, 31513), (371, 31549), (382, 31558), (438, 31663), (468, 31732), (491, 31771), (504, 31792), (512, 31804), (513, 31807), (519, 31819), (529, 31834), (539, 31858), (543, 31864), (560, 31885), (590, 31921), (592, 31924), (609, 31960), (613, 31966), (620, 31981), (625, 31996), (675, 32065), (682, 32080), (717, 32122), (727, 32167), (730, 32176), (740, 32215), (745, 32233), (755, 32254), (762, 32269), (766, 32278), (768, 32281),

Gene: Kepler_38 Start: 24761, Stop: 23574, Start Num: 147

Candidate Starts for Kepler_38:

(87, 24851), (Start: 147 @24761 has 63 MA's), (341, 24407), (379, 24332), (624, 23897), (714, 23762), (760, 23612),

Gene: Kerberos_37 Start: 26420, Stop: 25350, Start Num: 188

Candidate Starts for Kerberos_37:

(Start: 152 @26474 has 119 MA's), (Start: 188 @26420 has 14 MA's), (Start: 218 @26351 has 6 MA's), (337, 26150), (350, 26123), (393, 26087), (424, 26030), (438, 26003), (464, 25952), (486, 25919), (491, 25907), (503, 25889), (540, 25817), (551, 25799), (559, 25787), (592, 25748), (609, 25712), (613, 25706), (622, 25685), (629, 25670), (639, 25652), (657, 25625), (718, 25514), (731,

25466), (732, 25463), (738, 25436), (740, 25430), (743, 25418), (761, 25379),

Gene: Khuang_45 Start: 28583, Stop: 27426, Start Num: 146

Candidate Starts for Khuang_45:

(Start: 146 @28583 has 1 MA's), (178, 28532), (189, 28508), (242, 28388), (262, 28349), (Start: 275 @28331 has 15 MA's), (Start: 279 @28325 has 58 MA's), (282, 28316), (317, 28259), (370, 28160), (387, 28136), (393, 28127), (429, 28037), (432, 28031), (435, 28022), (525, 27905), (573, 27836), (611, 27767), (630, 27725), (641, 27707), (643, 27704), (658, 27680), (675, 27650), (714, 27599), (728, 27539), (729, 27536), (761, 27446),

Gene: KiSi_45 Start: 33691, Stop: 34776, Start Num: 163

Candidate Starts for KiSi_45:

(1, 32323), (2, 32353), (3, 32512), (4, 32560), (5, 32629), (6, 32653), (7, 32734), (8, 32743), (9, 32767), (10, 32887), (17, 33088), (19, 33106), (22, 33184), (31, 33355), (42, 33430), (51, 33469), (63, 33523), (Start: 163 @33691 has 283 MA's), (234, 33826), (253, 33853), (337, 33991), (358, 34033), (371, 34045), (429, 34129), (465, 34198), (466, 34201), (491, 34243), (556, 34351), (618, 34456), (675, 34543), (715, 34591), (742, 34699), (762, 34747),

Gene: Kihatsu_37 Start: 26637, Stop: 27557, Start Num: 279

Candidate Starts for Kihatsu_37:

(Start: 279 @26637 has 58 MA's), (365, 26793), (380, 26811), (387, 26823), (451, 26970), (464, 26979), (490, 27018), (531, 27078), (535, 27087), (537, 27093), (558, 27126), (595, 27168), (600, 27180), (615, 27213), (618, 27219), (621, 27225), (662, 27303), (720, 27399), (732, 27444), (761, 27525), (762, 27528),

Gene: Kiko_37 Start: 28964, Stop: 29881, Start Num: 279

Candidate Starts for Kiko_37:

(Start: 275 @28958 has 15 MA's), (Start: 279 @28964 has 58 MA's), (390, 29147), (393, 29153), (396, 29159), (491, 29345), (535, 29408), (537, 29414), (546, 29429), (612, 29528), (615, 29534), (621, 29546), (662, 29621), (675, 29645), (676, 29648), (720, 29720), (721, 29723), (730, 29759),

Gene: Kimona_30 Start: 24408, Stop: 23293, Start Num: 152

Candidate Starts for Kimona_30:

(127, 24435), (135, 24426), (Start: 152 @24408 has 119 MA's), (200, 24330), (Start: 218 @24285 has 6 MA's), (346, 24066), (350, 24057), (393, 24021), (423, 23967), (424, 23964), (464, 23886), (551, 23733), (554, 23730), (609, 23646), (622, 23619), (629, 23604), (639, 23586), (657, 23559), (718, 23448), (731, 23400), (738, 23370), (740, 23364), (743, 23352), (752, 23331), (761, 23313),

Gene: Kinbote_29 Start: 26478, Stop: 25285, Start Num: 171

Candidate Starts for Kinbote_29:

(Start: 145 @26520 has 2 MA's), (Start: 171 @26478 has 20 MA's), (205, 26412), (244, 26331), (263, 26292), (274, 26277), (277, 26271), (282, 26259), (297, 26232), (314, 26199), (350, 26142), (362, 26109), (364, 26106), (396, 26058), (410, 26016), (411, 26013), (422, 25989), (431, 25974), (441, 25950), (449, 25935), (476, 25896), (487, 25884), (507, 25845), (530, 25806), (558, 25758), (560, 25755), (609, 25683), (613, 25677), (618, 25665), (620, 25662), (622, 25656), (649, 25602), (658, 25584), (660, 25581), (677, 25554), (686, 25536), (689, 25530), (691, 25527), (715, 25485), (721, 25458), (723, 25452), (736, 25395), (764, 25332), (766, 25329),

Gene: KingCyrus_36 Start: 28129, Stop: 27002, Start Num: 138

Candidate Starts for KingCyrus_36:

(Start: 123 @28147 has 7 MA's), (Start: 138 @28129 has 7 MA's), (Start: 195 @28048 has 8 MA's), (Start: 218 @28000 has 6 MA's), (243, 27955), (337, 27799), (350, 27772), (393, 27736), (424, 27679), (429, 27667), (464, 27601), (486, 27568), (491, 27556), (503, 27538), (551, 27448), (559, 27436),

(609, 27361), (613, 27355), (622, 27334), (629, 27319), (639, 27301), (655, 27277), (657, 27274), (659, 27265), (718, 27163), (731, 27115), (732, 27112), (738, 27085), (740, 27079), (743, 27067), (761, 27028),

Gene: Kingsley_38 Start: 30711, Stop: 31829, Start Num: 163

Candidate Starts for Kingsley_38:

(Start: 163 @30711 has 283 MA's), (253, 30882), (346, 31047), (371, 31083), (382, 31092), (424, 31173), (438, 31197), (468, 31266), (491, 31305), (501, 31323), (504, 31326), (512, 31338), (513, 31341), (519, 31353), (529, 31368), (539, 31392), (543, 31398), (560, 31419), (590, 31455), (592, 31458), (609, 31494), (613, 31500), (618, 31512), (620, 31515), (625, 31530), (675, 31599), (682, 31614), (717, 31656), (727, 31701), (730, 31710), (740, 31749), (745, 31767), (755, 31788), (762, 31803), (766, 31812), (768, 31815),

Gene: Kita_40 Start: 30461, Stop: 31654, Start Num: 86

Candidate Starts for Kita_40:

(Start: 86 @30461 has 6 MA's), (Start: 159 @30572 has 52 MA's), (190, 30626), (261, 30746), (423, 31001), (438, 31031), (466, 31091), (506, 31157), (519, 31181), (723, 31511), (729, 31538), (766, 31643),

Gene: Klein_81 Start: 51782, Stop: 53011, Start Num: 85

Candidate Starts for Klein_81:

(Start: 85 @51782 has 29 MA's), (Start: 91 @51800 has 1 MA's), (Start: 112 @51839 has 1 MA's), (Start: 254 @52076 has 1 MA's), (318, 52184), (418, 52304), (419, 52307), (423, 52316), (429, 52331), (447, 52370), (491, 52448), (556, 52553), (562, 52565), (575, 52568), (582, 52577), (607, 52628), (609, 52631), (619, 52649), (672, 52745), (709, 52802), (737, 52922), (738, 52925), (745, 52949), (757, 52973), (759, 52976),

Gene: Koduck_33 Start: 25409, Stop: 24294, Start Num: 157

Candidate Starts for Koduck_33:

(Start: 157 @25409 has 6 MA's), (205, 25328), (Start: 218 @25292 has 6 MA's), (243, 25247), (Start: 298 @25160 has 1 MA's), (337, 25091), (343, 25079), (350, 25064), (358, 25049), (393, 25028), (423, 24974), (424, 24971), (540, 24758), (546, 24746), (551, 24740), (559, 24728), (582, 24707), (609, 24653), (622, 24626), (629, 24611), (639, 24593), (657, 24566), (731, 24407), (738, 24377), (740, 24371), (743, 24359), (761, 24320),

Gene: KristaRAM_43 Start: 33503, Stop: 34630, Start Num: 163

Candidate Starts for KristaRAM_43:

(Start: 91 @33401 has 1 MA's), (Start: 123 @33458 has 7 MA's), (Start: 163 @33503 has 283 MA's), (168, 33512), (253, 33674), (281, 33725), (289, 33743), (310, 33788), (371, 33884), (382, 33893), (424, 33974), (438, 33998), (468, 34067), (491, 34106), (504, 34127), (512, 34139), (513, 34142), (519, 34154), (529, 34169), (539, 34193), (543, 34199), (560, 34220), (590, 34256), (592, 34259), (609, 34295), (613, 34301), (618, 34313), (620, 34316), (625, 34331), (675, 34400), (682, 34415), (717, 34457), (727, 34502), (730, 34511), (740, 34550), (745, 34568), (755, 34589), (762, 34604), (766, 34613), (768, 34616),

Gene: Kudetre_6 Start: 2520, Stop: 1432, Start Num: 182

Candidate Starts for Kudetre_6:

(108, 2625), (167, 2541), (Start: 182 @2520 has 4 MA's), (260, 2349), (308, 2259), (321, 2235), (471, 1983), (498, 1950), (526, 1908), (535, 1893), (546, 1872), (553, 1863), (557, 1857), (608, 1773), (618, 1758), (663, 1671), (680, 1638), (729, 1545), (737, 1512), (740, 1503), (742, 1497),

Gene: Kukla_36 Start: 28255, Stop: 27116, Start Num: 191

Candidate Starts for Kukla_36:

(Start: 191 @28255 has 2 MA's), (219, 28189), (272, 28114), (286, 28093), (307, 28048), (358, 27964), (416, 27907), (423, 27889), (440, 27853), (454, 27823), (462, 27808), (468, 27796), (480, 27775), (502, 27739), (504, 27736), (515, 27715), (536, 27673), (538, 27670), (552, 27646), (590, 27589), (644, 27481), (672, 27430), (712, 27358), (726, 27289), (728, 27280), (777, 27148), (782, 27142),

Gene: Kuleana_37 Start: 24189, Stop: 23008, Start Num: 147

Candidate Starts for Kuleana_37:

(Start: 147 @24189 has 63 MA's), (332, 23850), (624, 23325),

Gene: Kumotta_30 Start: 23663, Stop: 24967, Start Num: 103

Candidate Starts for Kumotta_30:

(Start: 103 @23663 has 3 MA's), (Start: 149 @23720 has 1 MA's), (197, 23807), (202, 23816), (207, 23837), (256, 23939), (288, 23993), (292, 23999), (314, 24044), (319, 24053), (343, 24092), (469, 24338), (632, 24611), (661, 24668), (714, 24764), (719, 24791), (732, 24839), (738, 24866), (747, 24896), (757, 24911), (762, 24923),

Gene: L5_33 Start: 25369, Stop: 24254, Start Num: 157

Candidate Starts for L5_33:

(Start: 157 @25369 has 6 MA's), (205, 25288), (Start: 218 @25252 has 6 MA's), (243, 25207), (Start: 298 @25120 has 1 MA's), (337, 25051), (343, 25039), (350, 25024), (358, 25009), (393, 24988), (423, 24934), (424, 24931), (540, 24718), (546, 24706), (551, 24700), (559, 24688), (582, 24667), (609, 24613), (622, 24586), (629, 24571), (639, 24553), (657, 24526), (731, 24367), (738, 24337), (740, 24331), (743, 24319), (761, 24280),

Gene: LBerry_36 Start: 26790, Stop: 25645, Start Num: 152

Candidate Starts for LBerry_36:

(Start: 152 @26790 has 119 MA's), (Start: 180 @26751 has 10 MA's), (205, 26703), (Start: 218 @26667 has 6 MA's), (243, 26622), (337, 26466), (350, 26439), (393, 26403), (424, 26346), (464, 26268), (477, 26244), (503, 26205), (540, 26133), (546, 26121), (551, 26115), (559, 26103), (609, 26028), (613, 26022), (622, 26001), (629, 25986), (639, 25968), (655, 25944), (718, 25830), (730, 25785), (731, 25782), (734, 25773), (738, 25752), (740, 25746), (743, 25734), (761, 25695),

Gene: LHTSCC_34 Start: 26518, Stop: 25466, Start Num: 195

Candidate Starts for LHTSCC_34:

(135, 26605), (Start: 152 @26587 has 119 MA's), (Start: 195 @26518 has 8 MA's), (Start: 218 @26464 has 6 MA's), (346, 26245), (350, 26236), (393, 26200), (418, 26158), (423, 26146), (424, 26143), (540, 25930), (551, 25912), (609, 25825), (613, 25819), (622, 25798), (629, 25783), (639, 25765), (718, 25627), (731, 25579), (738, 25549), (740, 25543), (743, 25531), (761, 25492),

Gene: Lamberg_33 Start: 26384, Stop: 27466, Start Num: 159

Candidate Starts for Lamberg_33:

(Start: 83 @26267 has 2 MA's), (Start: 86 @26273 has 6 MA's), (Start: 159 @26384 has 52 MA's), (190, 26438), (261, 26558), (423, 26813), (438, 26843), (466, 26903), (506, 26969), (519, 26993), (561, 27062), (590, 27098), (723, 27323), (729, 27350), (766, 27455),

Gene: Landor_35 Start: 28009, Stop: 26867, Start Num: 139

Candidate Starts for Landor_35:

(Start: 139 @28009 has 1 MA's), (Start: 218 @27874 has 6 MA's), (243, 27829), (246, 27823), (274, 27784), (318, 27700), (343, 27661), (393, 27610), (448, 27499), (486, 27442), (491, 27430), (519, 27382), (551, 27322), (554, 27319), (609, 27235), (613, 27229), (622, 27208), (629, 27193), (639, 27175), (731, 26989), (738, 26959), (740, 26953), (743, 26941), (761, 26902), (774, 26878),

Gene: Larenn_35 Start: 26836, Stop: 25694, Start Num: 123

Candidate Starts for Larenn_35:

(Start: 123 @26836 has 7 MA's), (Start: 138 @26818 has 7 MA's), (Start: 218 @26689 has 6 MA's), (243, 26644), (346, 26470), (350, 26461), (393, 26425), (424, 26368), (464, 26290), (486, 26257), (491, 26245), (503, 26227), (551, 26137), (559, 26125), (609, 26050), (613, 26044), (622, 26023), (629, 26008), (639, 25990), (657, 25963), (718, 25852), (731, 25804), (732, 25801), (738, 25774), (740, 25768), (743, 25756), (761, 25717),

Gene: LastJedi_34 Start: 27598, Stop: 28716, Start Num: 163

Candidate Starts for LastJedi_34:

(Start: 163 @27598 has 283 MA's), (168, 27607), (253, 27769), (346, 27934), (371, 27970), (382, 27979), (424, 28060), (438, 28084), (468, 28153), (491, 28192), (501, 28210), (504, 28213), (512, 28225), (513, 28228), (519, 28240), (529, 28255), (539, 28279), (543, 28285), (560, 28306), (590, 28342), (592, 28345), (609, 28381), (613, 28387), (620, 28402), (625, 28417), (675, 28486), (682, 28501), (717, 28543), (727, 28588), (730, 28597), (740, 28636), (745, 28654), (755, 28675), (762, 28690), (766, 28699), (768, 28702),

Gene: LaterM_42 Start: 33376, Stop: 34464, Start Num: 163

Candidate Starts for LaterM_42:

(Start: 163 @33376 has 283 MA's), (Start: 218 @33478 has 6 MA's), (231, 33502), (253, 33538), (289, 33589), (319, 33652), (337, 33676), (371, 33730), (378, 33733), (429, 33814), (465, 33883), (466, 33886), (486, 33916), (556, 34036), (603, 34114), (618, 34141), (715, 34276),

Gene: Lawnathon_40 Start: 27623, Stop: 26484, Start Num: 163

Candidate Starts for Lawnathon_40:

(Start: 163 @27623 has 283 MA's), (190, 27572), (289, 27404), (299, 27386), (388, 27254), (424, 27176), (429, 27164), (433, 27158), (465, 27089), (470, 27080), (506, 27020), (557, 26930), (620, 26825), (630, 26804), (645, 26777), (717, 26654), (723, 26630), (726, 26615), (746, 26540), (761, 26510),

Gene: Lawnathon_36 Start: 24435, Stop: 25352, Start Num: 279

Candidate Starts for Lawnathon_36:

(208, 24306), (211, 24312), (Start: 279 @24435 has 58 MA's), (365, 24591), (380, 24606), (387, 24618), (451, 24765), (464, 24774), (490, 24813), (521, 24858), (535, 24882), (537, 24888), (558, 24921), (595, 24963), (599, 24972), (618, 25014), (662, 25098), (730, 25233),

Gene: LeMond_45 Start: 33694, Stop: 34779, Start Num: 163

Candidate Starts for LeMond_45:

(63, 33526), (Start: 163 @33694 has 283 MA's), (234, 33829), (253, 33856), (337, 33994), (358, 34036), (371, 34048), (429, 34132), (465, 34201), (466, 34204), (491, 34246), (556, 34354), (618, 34459), (675, 34546), (715, 34594), (742, 34702), (762, 34750),

Gene: Lederberg_27 Start: 25613, Stop: 24285, Start Num: 89

Candidate Starts for Lederberg_27:

(Start: 89 @25613 has 3 MA's), (Start: 106 @25577 has 1 MA's), (Start: 112 @25568 has 1 MA's), (Start: 151 @25511 has 3 MA's), (277, 25301), (Start: 279 @25298 has 58 MA's), (333, 25199), (343, 25181), (385, 25115), (390, 25109), (396, 25097), (475, 24932), (503, 24887), (515, 24866), (521, 24854), (535, 24830), (548, 24806), (553, 24800), (577, 24764), (624, 24668), (654, 24611), (676, 24566), (692, 24542), (714, 24527), (729, 24461), (730, 24458), (736, 24431), (742, 24413), (769, 24353), (793, 24299),

Gene: Lenoxika_36 Start: 26286, Stop: 27206, Start Num: 279

Candidate Starts for Lenoxika_36:

(Start: 279 @26286 has 58 MA's), (365, 26442), (380, 26460), (387, 26472), (451, 26619), (464, 26628), (490, 26667), (535, 26736), (537, 26742), (558, 26775), (595, 26817), (600, 26829), (618, 26868), (720, 27048), (726, 27072), (730, 27087), (732, 27093), (761, 27174), (762, 27177),

Gene: LeoAvram_33 Start: 26179, Stop: 25127, Start Num: 195

Candidate Starts for LeoAvram_33:

(Start: 116 @26293 has 3 MA's), (135, 26266), (Start: 152 @26248 has 119 MA's), (Start: 195 @26179 has 8 MA's), (Start: 218 @26125 has 6 MA's), (346, 25906), (350, 25897), (393, 25861), (418, 25819), (423, 25807), (424, 25804), (464, 25726), (540, 25591), (551, 25573), (609, 25486), (613, 25480), (622, 25459), (629, 25444), (639, 25426), (718, 25288), (731, 25240), (738, 25210), (740, 25204), (743, 25192), (761, 25153),

Gene: Leogania_35 Start: 28027, Stop: 26906, Start Num: 152

Candidate Starts for Leogania_35:

(Start: 103 @28090 has 3 MA's), (Start: 152 @28027 has 119 MA's), (Start: 188 @27973 has 14 MA's), (Start: 218 @27904 has 6 MA's), (243, 27859), (393, 27640), (448, 27529), (491, 27460), (551, 27352), (554, 27349), (559, 27340), (609, 27265), (613, 27259), (622, 27238), (629, 27223), (639, 27205), (718, 27067), (731, 27019), (732, 27016), (738, 26989), (740, 26983), (743, 26971), (761, 26932),

Gene: Leona_35 Start: 23984, Stop: 22791, Start Num: 147

Candidate Starts for Leona_35:

(Start: 147 @23984 has 63 MA's), (206, 23870), (379, 23555), (555, 23246), (624, 23120), (630, 23108), (640, 23087), (766, 22820),

Gene: Leroy_50 Start: 33450, Stop: 34544, Start Num: 163

Candidate Starts for Leroy_50:

(Start: 163 @33450 has 283 MA's), (190, 33501), (228, 33573), (232, 33579), (250, 33606), (284, 33651), (303, 33693), (346, 33765), (423, 33870), (429, 33885), (450, 33930), (491, 34002), (512, 34035), (513, 34038), (519, 34050), (622, 34215), (723, 34377), (724, 34380), (730, 34407), (734, 34419), (768, 34512),

Gene: Leviathan_35 Start: 26826, Stop: 25681, Start Num: 123

Candidate Starts for Leviathan_35:

(Start: 123 @26826 has 7 MA's), (Start: 138 @26808 has 7 MA's), (Start: 195 @26724 has 8 MA's), (Start: 218 @26676 has 6 MA's), (243, 26631), (350, 26448), (393, 26412), (424, 26355), (429, 26343), (486, 26244), (503, 26214), (551, 26124), (559, 26112), (609, 26037), (613, 26031), (622, 26010), (629, 25995), (639, 25977), (657, 25950), (718, 25839), (731, 25791), (732, 25788), (738, 25761), (740, 25755), (743, 25743), (761, 25704),

Gene: LilHazelnut_29 Start: 26478, Stop: 25285, Start Num: 171

Candidate Starts for LilHazelnut_29:

(Start: 145 @26520 has 2 MA's), (Start: 171 @26478 has 20 MA's), (205, 26412), (244, 26331), (263, 26292), (274, 26277), (277, 26271), (282, 26259), (297, 26232), (314, 26199), (350, 26142), (362, 26109), (364, 26106), (396, 26058), (410, 26016), (411, 26013), (422, 25989), (431, 25974), (441, 25950), (449, 25935), (476, 25896), (487, 25884), (507, 25845), (530, 25806), (558, 25758), (560, 25755), (609, 25683), (613, 25677), (618, 25665), (620, 25662), (622, 25656), (649, 25602), (658, 25584), (660, 25581), (677, 25554), (686, 25536), (689, 25530), (691, 25527), (715, 25485), (721, 25458), (723, 25452), (736, 25395), (764, 25332), (766, 25329),

Gene: LilPharaoh_36 Start: 31976, Stop: 33070, Start Num: 163

Candidate Starts for LilPharaoh_36:

(30, 31625), (Start: 32 @31640 has 1 MA's), (45, 31733), (51, 31754), (82, 31847), (Start: 163 @31976 has 283 MA's), (190, 32027), (231, 32102), (253, 32138), (310, 32234), (319, 32252), (337, 32276), (367, 32324), (371, 32330), (452, 32462), (465, 32495), (491, 32540), (556, 32648), (618, 32753), (659, 32813), (715, 32888), (742, 32996), (757, 33032),

Gene: LilSpotty_38 Start: 27607, Stop: 28713, Start Num: 163

Candidate Starts for LilSpotty_38:

(Start: 163 @27607 has 283 MA's), (247, 27766), (269, 27802), (371, 27979), (429, 28063), (453, 28108), (465, 28132), (483, 28162), (486, 28165), (506, 28201), (512, 28210), (513, 28213), (539, 28264), (556, 28285), (603, 28363), (613, 28378), (654, 28438), (675, 28477), (682, 28492), (717, 28543), (723, 28567), (727, 28588),

Gene: LilTurb_34 Start: 26659, Stop: 25508, Start Num: 123

Candidate Starts for LilTurb_34:

(Start: 123 @26659 has 7 MA's), (Start: 138 @26641 has 7 MA's), (Start: 195 @26557 has 8 MA's), (Start: 218 @26509 has 6 MA's), (243, 26464), (350, 26281), (393, 26245), (424, 26188), (429, 26176), (438, 26161), (486, 26077), (491, 26065), (503, 26047), (551, 25957), (559, 25945), (609, 25870), (613, 25864), (622, 25843), (629, 25828), (639, 25810), (657, 25783), (718, 25672), (731, 25624), (732, 25621), (738, 25594), (740, 25588), (743, 25576), (761, 25537),

Gene: Lilas_37 Start: 31522, Stop: 32445, Start Num: 275

Candidate Starts for Lilas_37:

(Start: 275 @31522 has 15 MA's), (Start: 279 @31528 has 58 MA's), (Start: 298 @31552 has 1 MA's), (348, 31648), (396, 31723), (426, 31795), (447, 31846), (491, 31909), (531, 31963), (535, 31972), (546, 31993), (553, 32002), (577, 32032), (615, 32098), (649, 32164), (662, 32185), (676, 32212), (711, 32248),

Gene: Lilas_38 Start: 32714, Stop: 33796, Start Num: 159

Candidate Starts for Lilas_38:

(Start: 159 @32714 has 52 MA's), (Start: 222 @32831 has 1 MA's), (284, 32924), (423, 33146), (440, 33182), (466, 33236), (508, 33305), (513, 33314), (723, 33653), (729, 33680), (766, 33785),

Gene: Lilit_36 Start: 26744, Stop: 25638, Start Num: 180

Candidate Starts for Lilit_36:

(Start: 152 @26783 has 119 MA's), (Start: 180 @26744 has 10 MA's), (Start: 218 @26660 has 6 MA's), (243, 26615), (337, 26459), (350, 26432), (393, 26396), (424, 26339), (464, 26261), (477, 26237), (503, 26198), (540, 26126), (546, 26114), (551, 26108), (559, 26096), (609, 26021), (613, 26015), (622, 25994), (629, 25979), (639, 25961), (655, 25937), (718, 25823), (730, 25778), (731, 25775), (734, 25766), (738, 25745), (740, 25739), (743, 25727), (761, 25688),

Gene: LindNT_41 Start: 32665, Stop: 33753, Start Num: 163

Candidate Starts for LindNT_41:

(73, 32518), (Start: 163 @32665 has 283 MA's), (Start: 218 @32767 has 6 MA's), (231, 32791), (253, 32827), (337, 32965), (371, 33019), (429, 33103), (465, 33172), (466, 33175), (556, 33325), (618, 33430), (675, 33517), (715, 33565), (757, 33709),

Gene: LitninMcQueen_43 Start: 31304, Stop: 32401, Start Num: 163

Candidate Starts for LitninMcQueen_43:

(31, 30968), (47, 31064), (115, 31247), (Start: 163 @31304 has 283 MA's), (190, 31355), (228, 31427), (232, 31433), (250, 31460), (284, 31505), (303, 31547), (371, 31655), (423, 31724), (429, 31739), (466, 31814), (491, 31856), (512, 31889), (513, 31892), (519, 31904), (592, 32006), (641, 32099), (692, 32171), (717, 32207), (723, 32231), (729, 32258), (742, 32306), (768, 32366),

Gene: LittleE_82 Start: 51604, Stop: 52791, Start Num: 112

Candidate Starts for LittleE_82:

(54, 51460), (Start: 65 @51502 has 1 MA's), (Start: 69 @51517 has 10 MA's), (72, 51520), (Start: 91 @51565 has 1 MA's), (Start: 112 @51604 has 1 MA's), (342, 51985), (418, 52069), (423, 52081), (424, 52084), (491, 52213), (575, 52333), (609, 52396), (619, 52414), (631, 52438), (672, 52510), (737, 52687), (738, 52690), (740, 52696), (745, 52714), (752, 52729), (757, 52738), (759, 52741), (779, 52786),

Gene: LittleTokyo_36 Start: 23859, Stop: 22669, Start Num: 147

Candidate Starts for LittleTokyo_36:

(Start: 147 @23859 has 63 MA's), (379, 23427), (555, 23118), (624, 22992), (630, 22980), (762, 22701),

Gene: Llorens_41 Start: 32595, Stop: 33683, Start Num: 163

Candidate Starts for Llorens_41:

(16, 31992), (24, 32169), (41, 32334), (51, 32373), (Start: 163 @32595 has 283 MA's), (190, 32646), (Start: 218 @32697 has 6 MA's), (231, 32721), (253, 32757), (337, 32895), (429, 33033), (465, 33102), (466, 33105), (556, 33255), (618, 33360), (715, 33495),

Gene: LonelyBoi_37 Start: 31310, Stop: 32227, Start Num: 279

Candidate Starts for LonelyBoi_37:

(Start: 275 @31304 has 15 MA's), (Start: 279 @31310 has 58 MA's), (Start: 298 @31334 has 1 MA's), (348, 31430), (396, 31505), (438, 31607), (447, 31628), (491, 31691), (531, 31745), (535, 31754), (546, 31775), (553, 31784), (577, 31814), (615, 31880), (625, 31904), (649, 31946), (662, 31967), (676, 31994), (711, 32030), (714, 32036),

Gene: LonelyBoi_38 Start: 32508, Stop: 33590, Start Num: 159

Candidate Starts for LonelyBoi_38:

(Start: 159 @32508 has 52 MA's), (190, 32562), (261, 32682), (438, 32967), (466, 33027), (519, 33117), (590, 33222), (723, 33447), (729, 33474), (766, 33579),

Gene: LordFarquaad_35 Start: 27696, Stop: 28778, Start Num: 159

Candidate Starts for LordFarquaad_35:

(Start: 86 @27585 has 6 MA's), (Start: 159 @27696 has 52 MA's), (190, 27750), (261, 27870), (423, 28125), (438, 28155), (466, 28215), (506, 28281), (519, 28305), (723, 28635), (729, 28662), (766, 28767),

Gene: Lorde_42 Start: 31143, Stop: 32261, Start Num: 163

Candidate Starts for Lorde_42:

(Start: 163 @31143 has 283 MA's), (168, 31152), (253, 31314), (346, 31479), (371, 31515), (382, 31524), (424, 31605), (438, 31629), (468, 31698), (491, 31737), (501, 31755), (504, 31758), (512, 31770), (513, 31773), (519, 31785), (539, 31824), (543, 31830), (560, 31851), (590, 31887), (592, 31890), (609, 31926), (613, 31932), (620, 31947), (675, 32031), (682, 32046), (708, 32064), (727, 32133), (730, 32142), (740, 32181), (745, 32199), (755, 32220), (762, 32235), (766, 32244), (768, 32247),

Gene: Lton_34 Start: 25220, Stop: 26299, Start Num: 163

Candidate Starts for Lton_34:

(Start: 163 @25220 has 283 MA's), (250, 25376), (357, 25556), (466, 25727), (491, 25769), (514, 25808), (519, 25817), (613, 25973), (692, 26096), (723, 26156), (729, 26183), (738, 26219), (742, 26231), (766, 26288),

Gene: Lucky10_35 Start: 28235, Stop: 29314, Start Num: 163

Candidate Starts for Lucky10_35:

(23, 27794), (37, 27947), (44, 27989), (96, 28145), (132, 28199), (Start: 163 @28235 has 283 MA's), (250, 28391), (466, 28742), (491, 28784), (514, 28823), (519, 28832), (613, 28988), (692, 29111), (723, 29171), (742, 29246), (766, 29303),

Gene: Lucky2013_84 Start: 50079, Stop: 51353, Start Num: 69

Candidate Starts for Lucky2013_84:

(54, 50022), (Start: 65 @50064 has 1 MA's), (Start: 69 @50079 has 10 MA's), (72, 50082), (Start: 91 @50127 has 1 MA's), (Start: 112 @50166 has 1 MA's), (342, 50547), (418, 50631), (423, 50643), (424, 50646), (491, 50775), (575, 50895), (609, 50958), (619, 50976), (631, 51000), (672, 51072), (737, 51249), (738, 51252), (740, 51258), (745, 51276), (752, 51291), (757, 51300), (759, 51303), (779, 51348),

Gene: LugYA_38 Start: 26790, Stop: 25645, Start Num: 152

Candidate Starts for LugYA_38:

(Start: 152 @26790 has 119 MA's), (Start: 180 @26751 has 10 MA's), (205, 26703), (Start: 218 @26667 has 6 MA's), (243, 26622), (337, 26466), (350, 26439), (393, 26403), (424, 26346), (464, 26268), (477, 26244), (503, 26205), (540, 26133), (546, 26121), (551, 26115), (559, 26103), (609, 26028), (613, 26022), (622, 26001), (629, 25986), (639, 25968), (655, 25944), (718, 25830), (730, 25785), (731, 25782), (734, 25773), (738, 25752), (740, 25746), (743, 25734), (761, 25695),

Gene: Luke_29 Start: 26433, Stop: 25240, Start Num: 171

Candidate Starts for Luke_29:

(Start: 145 @26475 has 2 MA's), (Start: 171 @26433 has 20 MA's), (205, 26367), (244, 26286), (263, 26247), (274, 26232), (277, 26226), (282, 26214), (297, 26187), (314, 26154), (350, 26097), (362, 26064), (364, 26061), (396, 26013), (410, 25971), (411, 25968), (422, 25944), (431, 25929), (441, 25905), (449, 25890), (476, 25851), (487, 25839), (507, 25800), (530, 25761), (558, 25713), (560, 25710), (609, 25638), (613, 25632), (618, 25620), (620, 25617), (622, 25611), (649, 25557), (658, 25539), (660, 25536), (677, 25509), (686, 25491), (689, 25485), (691, 25482), (715, 25440), (721, 25413), (723, 25407), (736, 25350), (764, 25287), (766, 25284),

Gene: Luna22_29 Start: 26478, Stop: 25285, Start Num: 171

Candidate Starts for Luna22_29:

(Start: 145 @26520 has 2 MA's), (Start: 171 @26478 has 20 MA's), (205, 26412), (244, 26331), (263, 26292), (274, 26277), (277, 26271), (282, 26259), (297, 26232), (314, 26199), (350, 26142), (362, 26109), (364, 26106), (396, 26058), (410, 26016), (411, 26013), (422, 25989), (431, 25974), (441, 25950), (449, 25935), (476, 25896), (487, 25884), (507, 25845), (530, 25806), (558, 25758), (560, 25755), (609, 25683), (613, 25677), (618, 25665), (620, 25662), (622, 25656), (649, 25602), (658, 25584), (660, 25581), (677, 25554), (686, 25536), (689, 25530), (691, 25527), (715, 25485), (721, 25458), (723, 25452), (736, 25395), (764, 25332), (766, 25329),

Gene: LunaBlu_46 Start: 33438, Stop: 34556, Start Num: 163

Candidate Starts for LunaBlu_46:

(Start: 163 @33438 has 283 MA's), (168, 33447), (253, 33609), (346, 33774), (371, 33810), (382, 33819), (438, 33924), (468, 33993), (491, 34032), (501, 34050), (504, 34053), (512, 34065), (513, 34068), (519, 34080), (529, 34095), (539, 34119), (543, 34125), (560, 34146), (590, 34182), (592, 34185), (609, 34221), (613, 34227), (620, 34242), (625, 34257), (675, 34326), (682, 34341), (717, 34383), (727, 34428), (730, 34437), (740, 34476), (745, 34494), (755, 34515), (762, 34530), (766, 34539), (768, 34542),

Gene: LunaStella_42 Start: 31631, Stop: 32749, Start Num: 163

Candidate Starts for LunaStella_42:

(Start: 163 @31631 has 283 MA's), (168, 31640), (232, 31769), (253, 31802), (284, 31850), (371, 32003), (382, 32012), (424, 32093), (468, 32186), (504, 32246), (512, 32258), (513, 32261), (529, 32288), (539, 32312), (560, 32339), (590, 32375), (592, 32378), (609, 32414), (625, 32450), (675, 32519), (682, 32534), (708, 32552), (727, 32621), (730, 32630), (740, 32669), (745, 32687), (755, 32708), (762, 32723),

Gene: Lunahalos_41 Start: 32595, Stop: 33683, Start Num: 163

Candidate Starts for Lunahalos_41:

(16, 31992), (24, 32169), (41, 32334), (51, 32373), (Start: 163 @32595 has 283 MA's), (190, 32646), (Start: 218 @32697 has 6 MA's), (231, 32721), (253, 32757), (337, 32895), (429, 33033), (465, 33102), (466, 33105), (556, 33255), (618, 33360), (715, 33495),

Gene: Lunar_38 Start: 24679, Stop: 23492, Start Num: 147

Candidate Starts for Lunar_38:

(87, 24769), (Start: 147 @24679 has 63 MA's), (624, 23815), (714, 23680), (768, 23512),

Gene: Lutum_50 Start: 32526, Stop: 33596, Start Num: 163

Candidate Starts for Lutum_50:

(Start: 163 @32526 has 283 MA's), (190, 32577), (232, 32655), (250, 32682), (371, 32877), (382, 32886), (419, 32937), (423, 32946), (424, 32949), (429, 32961), (450, 33006), (470, 33042), (491, 33078), (512, 33111), (513, 33114), (519, 33126), (623, 33294), (692, 33393), (723, 33453), (729, 33480), (730, 33483), (736, 33510), (738, 33516), (742, 33528), (766, 33585),

Gene: MA5_33 Start: 25943, Stop: 24819, Start Num: 152

Candidate Starts for MA5_33:

(Start: 152 @25943 has 119 MA's), (Start: 218 @25820 has 6 MA's), (243, 25775), (289, 25703), (346, 25601), (350, 25592), (393, 25556), (424, 25499), (464, 25421), (551, 25268), (559, 25256), (601, 25199), (609, 25181), (613, 25175), (622, 25154), (629, 25139), (639, 25121), (731, 24935), (738, 24905), (740, 24899), (743, 24887), (761, 24848),

Gene: MK4_33 Start: 26050, Stop: 24926, Start Num: 152

Candidate Starts for MK4_33:

(Start: 118 @26092 has 1 MA's), (Start: 152 @26050 has 119 MA's), (Start: 218 @25927 has 6 MA's), (243, 25882), (289, 25810), (313, 25762), (346, 25708), (350, 25699), (393, 25663), (424, 25606), (551, 25375), (559, 25363), (582, 25342), (609, 25288), (613, 25282), (622, 25261), (629, 25246), (639, 25228), (657, 25201), (718, 25090), (731, 25042), (732, 25039), (738, 25012), (740, 25006), (743, 24994), (752, 24973), (761, 24955),

Gene: MadMarie_36 Start: 26792, Stop: 25647, Start Num: 152

Candidate Starts for MadMarie_36:

(Start: 152 @26792 has 119 MA's), (Start: 180 @26753 has 10 MA's), (205, 26705), (Start: 218 @26669 has 6 MA's), (243, 26624), (337, 26468), (350, 26441), (393, 26405), (424, 26348), (464, 26270), (477, 26246), (503, 26207), (540, 26135), (546, 26123), (551, 26117), (559, 26105), (609, 26030), (613, 26024), (622, 26003), (629, 25988), (639, 25970), (655, 25946), (718, 25832), (730, 25787), (731, 25784), (734, 25775), (738, 25754), (740, 25748), (743, 25736), (761, 25697),

Gene: Madeline_35 Start: 31541, Stop: 30279, Start Num: 147

Candidate Starts for Madeline_35:

(Start: 147 @31541 has 63 MA's), (221, 31385), (322, 31202), (344, 31166), (379, 31106), (387, 31094), (408, 31049), (421, 31016), (439, 30974), (529, 30860), (560, 30806), (563, 30803), (609, 30728), (618, 30710), (620, 30707), (646, 30650), (707, 30533), (714, 30521), (723, 30482), (727, 30464), (743, 30404), (748, 30389), (757, 30377), (761, 30368), (778, 30329), (792, 30299),

Gene: Mainiac_36 Start: 26783, Stop: 25638, Start Num: 152

Candidate Starts for Mainiac_36:

(Start: 152 @26783 has 119 MA's), (Start: 180 @26744 has 10 MA's), (205, 26696), (Start: 218 @26660 has 6 MA's), (243, 26615), (337, 26459), (350, 26432), (393, 26396), (424, 26339), (464, 26261), (477, 26237), (503, 26198), (540, 26126), (546, 26114), (551, 26108), (559, 26096), (609, 26021), (613, 26015), (622, 25994), (629, 25979), (639, 25961), (655, 25937), (718, 25823), (730, 25778), (731, 25775), (734, 25766), (738, 25745), (740, 25739), (743, 25727), (761, 25688),

Gene: Maja_28 Start: 23177, Stop: 24097, Start Num: 279

Candidate Starts for Maja_28:

(Start: 279 @23177 has 58 MA's), (365, 23333), (380, 23351), (387, 23363), (393, 23372), (410, 23420), (451, 23510), (490, 23558), (535, 23627), (537, 23633), (558, 23666), (595, 23708), (600, 23720), (618, 23759), (662, 23843), (676, 23870), (732, 23984), (762, 24068),

Gene: MajorMajor_34 Start: 25599, Stop: 24475, Start Num: 152

Candidate Starts for MajorMajor_34:

(Start: 152 @25599 has 119 MA's), (200, 25521), (Start: 218 @25476 has 6 MA's), (243, 25431), (284, 25371), (350, 25248), (393, 25212), (423, 25158), (424, 25155), (491, 25032), (493, 25029), (503, 25014), (546, 24930), (551, 24924), (582, 24891), (590, 24876), (609, 24837), (622, 24810), (629, 24795), (639, 24777), (657, 24750), (718, 24639), (731, 24591), (732, 24588), (734, 24582), (738, 24561), (740, 24555), (743, 24543), (761, 24504),

Gene: MakCheese_48 Start: 36086, Stop: 34929, Start Num: 110

Candidate Starts for MakCheese_48:

(Start: 110 @36086 has 1 MA's), (278, 35825), (309, 35759), (317, 35744), (325, 35732), (345, 35702), (423, 35588), (438, 35558), (466, 35498), (519, 35408), (539, 35369), (620, 35243), (622, 35237), (623, 35234), (643, 35204), (646, 35198), (659, 35174), (723, 35072), (742, 34997), (766, 34940),

Gene: Malec_36 Start: 27350, Stop: 26235, Start Num: 163

Candidate Starts for Malec_36:

(67, 27515), (130, 27389), (Start: 163 @27350 has 283 MA's), (Start: 180 @27317 has 10 MA's), (205, 27269), (Start: 218 @27233 has 6 MA's), (243, 27188), (272, 27146), (274, 27143), (337, 27032), (350, 27005), (393, 26969), (429, 26900), (448, 26858), (491, 26789), (503, 26771), (551, 26681), (609, 26594), (613, 26588), (622, 26567), (629, 26552), (639, 26534), (657, 26507), (718, 26396), (730, 26351), (731, 26348), (732, 26345), (734, 26339), (738, 26318), (740, 26312), (743, 26300), (761, 26261),

Gene: Malibo_38 Start: 29560, Stop: 30477, Start Num: 279

Candidate Starts for Malibo_38:

(Start: 275 @29554 has 15 MA's), (Start: 279 @29560 has 58 MA's), (348, 29680), (393, 29749), (396, 29755), (426, 29827), (438, 29857), (447, 29878), (491, 29941), (535, 30004), (546, 30025), (553, 30034), (577, 30064), (597, 30088), (662, 30217), (676, 30244), (711, 30280),

Gene: Malibo_40 Start: 32774, Stop: 31605, Start Num: 147

Candidate Starts for Malibo_40:

(Start: 147 @32774 has 63 MA's), (317, 32450), (328, 32432), (379, 32345), (387, 32333), (408, 32288), (429, 32240), (432, 32234), (438, 32219), (439, 32216), (443, 32204), (512, 32132), (558, 32051), (646, 31901), (662, 31871), (714, 31814), (716, 31802), (723, 31775), (748, 31682), (761, 31661), (778, 31622), (784, 31613),

Gene: Malinsilva_38 Start: 26743, Stop: 25637, Start Num: 180

Candidate Starts for Malinsilva_38:

(Start: 152 @26782 has 119 MA's), (Start: 180 @26743 has 10 MA's), (Start: 218 @26659 has 6 MA's), (243, 26614), (337, 26458), (350, 26431), (393, 26395), (424, 26338), (464, 26260), (477, 26236), (503, 26197), (540, 26125), (546, 26113), (551, 26107), (559, 26095), (609, 26020), (613, 26014), (622, 25993), (629, 25978), (639, 25960), (655, 25936), (718, 25822), (730, 25777), (731, 25774), (734, 25765), (738, 25744), (740, 25738), (743, 25726), (761, 25687),

Gene: Manasvini_39 Start: 30564, Stop: 31646, Start Num: 159

Candidate Starts for Manasvini_39:

(Start: 86 @30453 has 6 MA's), (Start: 159 @30564 has 52 MA's), (190, 30618), (261, 30738), (423, 30993), (438, 31023), (466, 31083), (506, 31149), (519, 31173), (723, 31503), (729, 31530), (766, 31635),

Gene: Mandlovu_40 Start: 31729, Stop: 32847, Start Num: 163

Candidate Starts for Mandlovu_40:

(Start: 163 @31729 has 283 MA's), (253, 31900), (346, 32065), (371, 32101), (382, 32110), (438, 32215), (468, 32284), (491, 32323), (504, 32344), (512, 32356), (513, 32359), (519, 32371), (539, 32410), (543, 32416), (560, 32437), (590, 32473), (592, 32476), (609, 32512), (613, 32518), (618, 32530), (620, 32533), (625, 32548), (675, 32617), (682, 32632), (708, 32650), (727, 32719), (730, 32728), (740, 32767), (745, 32785), (755, 32806), (762, 32821), (766, 32830), (768, 32833),

Gene: Manu_36 Start: 26643, Stop: 25498, Start Num: 152

Candidate Starts for Manu_36:

(Start: 103 @26706 has 3 MA's), (Start: 152 @26643 has 119 MA's), (Start: 188 @26589 has 14 MA's), (Start: 218 @26520 has 6 MA's), (346, 26301), (350, 26292), (393, 26256), (424, 26199), (464, 26121), (486, 26088), (540, 25986), (551, 25968), (559, 25956), (609, 25881), (613, 25875), (622, 25854), (629, 25839), (639, 25821), (655, 25797), (730, 25638), (731, 25635), (738, 25605), (740, 25599), (743, 25587), (761, 25548),

Gene: Mao1_43 Start: 40085, Stop: 38883, Start Num: 156

Candidate Starts for Mao1_43:

(Start: 156 @40085 has 17 MA's), (199, 40010), (208, 39986), (211, 39980), (274, 39875), (334, 39764), (335, 39761), (364, 39698), (432, 39563), (441, 39542), (476, 39488), (522, 39413), (558, 39353), (662, 39173), (663, 39170), (677, 39149), (723, 39047), (726, 39032), (744, 38966), (760, 38942), (773, 38912),

Gene: MarQuardt_36 Start: 26791, Stop: 25646, Start Num: 152

Candidate Starts for MarQuardt_36:

(Start: 152 @26791 has 119 MA's), (Start: 180 @26752 has 10 MA's), (205, 26704), (Start: 218 @26668 has 6 MA's), (243, 26623), (337, 26467), (350, 26440), (393, 26404), (424, 26347), (464, 26269), (477, 26245), (503, 26206), (540, 26134), (546, 26122), (551, 26116), (559, 26104), (609, 26029), (613, 26023), (622, 26002), (629, 25987), (639, 25969), (655, 25945), (718, 25831), (730, 25786), (731, 25783), (734, 25774), (738, 25753), (740, 25747), (743, 25735), (761, 25696),

Gene: Marchesa_33 Start: 26268, Stop: 25228, Start Num: 205

Candidate Starts for Marchesa_33:

(Start: 152 @26355 has 119 MA's), (205, 26268), (Start: 218 @26232 has 6 MA's), (243, 26187), (284, 26127), (337, 26031), (343, 26019), (346, 26013), (393, 25968), (423, 25914), (424, 25911), (436, 25887), (540, 25698), (551, 25680), (559, 25668), (592, 25629), (609, 25593), (613, 25587), (622, 25566), (629, 25551), (639, 25533), (718, 25395), (731, 25347), (738, 25317), (740, 25311), (743, 25299), (761, 25260),

Gene: Marcoliusprime_43 Start: 34317, Stop: 35417, Start Num: 163

Candidate Starts for Marcoliusprime_43:

(Start: 163 @34317 has 283 MA's), (172, 34335), (231, 34443), (253, 34479), (319, 34593), (337, 34617), (371, 34671), (458, 34812), (465, 34836), (466, 34839), (491, 34881), (556, 34989), (618, 35094), (651, 35139), (659, 35154), (742, 35346),

Gene: MargaretKali_30 Start: 23298, Stop: 24602, Start Num: 103

Candidate Starts for MargaretKali_30:

(Start: 103 @23298 has 3 MA's), (Start: 149 @23355 has 1 MA's), (197, 23442), (202, 23451), (207, 23472), (256, 23574), (288, 23628), (292, 23634), (314, 23679), (319, 23688), (343, 23727), (469, 23973), (632, 24246), (661, 24303), (714, 24399), (719, 24426), (732, 24474), (738, 24501), (747, 24531), (757, 24546), (762, 24558),

Gene: Maridalia_39 Start: 30563, Stop: 31645, Start Num: 159

Candidate Starts for Maridalia_39:

(Start: 86 @30452 has 6 MA's), (Start: 159 @30563 has 52 MA's), (190, 30617), (261, 30737), (466, 31082), (519, 31172), (590, 31277), (723, 31502), (729, 31529), (742, 31577), (766, 31634), (768, 31637),

Gene: Marie_36 Start: 26789, Stop: 25644, Start Num: 152

Candidate Starts for Marie_36:

(Start: 152 @26789 has 119 MA's), (Start: 180 @26750 has 10 MA's), (205, 26702), (Start: 218 @26666 has 6 MA's), (243, 26621), (337, 26465), (350, 26438), (393, 26402), (424, 26345), (464, 26267), (477, 26243), (503, 26204), (540, 26132), (546, 26120), (551, 26114), (559, 26102), (609, 26027), (613, 26021), (622, 26000), (629, 25985), (639, 25967), (655, 25943), (718, 25829), (730, 25784), (731, 25781), (734, 25772), (738, 25751), (740, 25745), (743, 25733), (761, 25694),

Gene: Marius_36 Start: 26643, Stop: 25498, Start Num: 152

Candidate Starts for Marius_36:

(Start: 103 @26706 has 3 MA's), (Start: 152 @26643 has 119 MA's), (Start: 188 @26589 has 14 MA's), (Start: 218 @26520 has 6 MA's), (346, 26301), (350, 26292), (393, 26256), (424, 26199), (464, 26121), (486, 26088), (540, 25986), (551, 25968), (559, 25956), (609, 25881), (613, 25875), (622, 25854), (629, 25839), (639, 25821), (655, 25797), (730, 25638), (731, 25635), (738, 25605), (740, 25599), (743, 25587), (761, 25548),

Gene: MarkPhew_44 Start: 33135, Stop: 34214, Start Num: 163

Candidate Starts for MarkPhew_44:

(17, 32601), (19, 32619), (20, 32631), (22, 32697), (51, 32913), (63, 32967), (76, 32994), (Start: 163 @33135 has 283 MA's), (253, 33297), (261, 33306), (287, 33339), (337, 33432), (358, 33474), (371, 33486), (429, 33570), (438, 33585), (465, 33639), (466, 33642), (491, 33684), (556, 33792), (618, 33897), (675, 33984), (715, 34032), (742, 34140), (762, 34188),

Gene: Marshawn_44 Start: 33433, Stop: 34515, Start Num: 163

Candidate Starts for Marshawn_44:

(Start: 163 @33433 has 283 MA's), (190, 33484), (231, 33559), (253, 33595), (367, 33781), (371, 33787), (429, 33871), (465, 33940), (466, 33943), (491, 33985), (556, 34093), (618, 34198), (675, 34285), (715, 34333), (762, 34489), (775, 34510),

Gene: Marteena_35 Start: 28837, Stop: 29754, Start Num: 279

Candidate Starts for Marteena_35:

(Start: 275 @28831 has 15 MA's), (Start: 279 @28837 has 58 MA's), (Start: 298 @28861 has 1 MA's), (348, 28957), (393, 29026), (396, 29032), (447, 29155), (491, 29218), (531, 29272), (535, 29281), (546, 29302), (553, 29311), (577, 29341), (597, 29365), (649, 29473), (662, 29494), (676, 29521),

Gene: Marteena_36 Start: 30030, Stop: 31136, Start Num: 163

Candidate Starts for Marteena_36:

(119, 29973), (Start: 163 @30030 has 283 MA's), (190, 30081), (250, 30186), (255, 30195), (281, 30225), (428, 30459), (429, 30465), (465, 30534), (466, 30537), (486, 30567), (513, 30618), (519, 30630), (654, 30858), (701, 30918), (723, 30993), (730, 31023), (766, 31125),

Gene: Maruru_31 Start: 28515, Stop: 29489, Start Num: 268

Candidate Starts for Maruru_31:

(18, 27732), (58, 28143), (132, 28296), (Start: 163 @28338 has 283 MA's), (168, 28347), (221, 28449), (268, 28515), (289, 28551), (391, 28692), (424, 28764), (529, 28959), (695, 29247), (726, 29343), (729, 29355), (730, 29358),

Gene: Mask_46 Start: 43255, Stop: 42053, Start Num: 156

Candidate Starts for Mask_46:

(Start: 156 @43255 has 17 MA's), (199, 43180), (208, 43156), (211, 43150), (274, 43045), (334, 42934), (335, 42931), (364, 42868), (432, 42733), (441, 42712), (476, 42658), (555, 42529), (558, 42523), (660, 42346), (662, 42343), (663, 42340), (677, 42319), (697, 42283), (723, 42217), (726, 42202), (744, 42136), (760, 42112), (773, 42082),

Gene: MaterMagnus_36 Start: 24582, Stop: 25499, Start Num: 279

Candidate Starts for MaterMagnus_36:

(208, 24453), (209, 24456), (211, 24459), (Start: 279 @24582 has 58 MA's), (365, 24738), (380, 24753), (387, 24765), (451, 24912), (464, 24921), (490, 24960), (521, 25005), (535, 25029), (537, 25035), (558, 25068), (595, 25110), (599, 25119), (618, 25161), (662, 25245), (726, 25365), (730, 25380),

Gene: MaterMagnus_40 Start: 27779, Stop: 26640, Start Num: 163

Candidate Starts for MaterMagnus_40:

(Start: 163 @27779 has 283 MA's), (190, 27728), (289, 27560), (299, 27542), (388, 27410), (424, 27332), (429, 27320), (433, 27314), (465, 27245), (470, 27236), (506, 27176), (557, 27086), (620, 26981), (630, 26960), (645, 26933), (717, 26810), (723, 26786), (726, 26771), (746, 26696), (761, 26666),

Gene: Matteo_30 Start: 25426, Stop: 26508, Start Num: 159

Candidate Starts for Matteo_30:

(Start: 83 @25309 has 2 MA's), (Start: 86 @25315 has 6 MA's), (Start: 159 @25426 has 52 MA's), (190, 25480), (261, 25600), (423, 25855), (438, 25885), (466, 25945), (506, 26011), (519, 26035), (590, 26140), (723, 26365), (729, 26392), (766, 26497),

Gene: Mattes_43 Start: 32094, Stop: 33212, Start Num: 163

Candidate Starts for Mattes_43:

(Start: 163 @32094 has 283 MA's), (232, 32232), (253, 32265), (284, 32313), (346, 32430), (371, 32466), (382, 32475), (438, 32580), (468, 32649), (504, 32709), (512, 32721), (513, 32724), (519, 32736), (529, 32751), (539, 32775), (543, 32781), (560, 32802), (590, 32838), (592, 32841), (609, 32877), (613, 32883), (618, 32895), (620, 32898), (675, 32982), (682, 32997), (717, 33039), (727, 33084), (730, 33093), (740, 33132), (745, 33150), (755, 33171), (762, 33186), (766, 33195), (768, 33198),

Gene: Maxo_33 Start: 26250, Stop: 25129, Start Num: 152

Candidate Starts for Maxo_33:

(Start: 116 @26295 has 3 MA's), (135, 26268), (Start: 152 @26250 has 119 MA's), (Start: 195 @26181 has 8 MA's), (Start: 218 @26127 has 6 MA's), (346, 25908), (350, 25899), (393, 25863), (418, 25821), (423, 25809), (424, 25806), (464, 25728), (540, 25593), (551, 25575), (609, 25488), (613, 25482), (622, 25461), (629, 25446), (639, 25428), (718, 25290), (731, 25242), (738, 25212), (740, 25206),

(743, 25194), (761, 25155),

Gene: Mbo4_31 Start: 29712, Stop: 28447, Start Num: 149

Candidate Starts for Mbo4_31:

(Start: 149 @29712 has 1 MA's), (160, 29697), (Start: 182 @29658 has 4 MA's), (206, 29595), (229, 29538), (238, 29523), (280, 29448), (283, 29439), (300, 29412), (338, 29346), (355, 29310), (359, 29301), (379, 29265), (381, 29262), (387, 29253), (393, 29244), (401, 29226), (403, 29223), (408, 29208), (435, 29142), (441, 29127), (443, 29121), (465, 29076), (477, 29052), (485, 29043), (495, 29022), (504, 29007), (511, 28998), (522, 28974), (529, 28965), (533, 28956), (573, 28893), (585, 28875), (586, 28872), (609, 28830), (613, 28824), (620, 28809), (622, 28803), (633, 28779), (643, 28758), (671, 28707), (679, 28692), (709, 28674), (719, 28638), (723, 28626), (726, 28611), (738, 28563), (740, 28557), (743, 28545), (748, 28530), (757, 28518), (768, 28494), (771, 28488),

Gene: McMater_43 Start: 33014, Stop: 34105, Start Num: 163

Candidate Starts for McMater_43:

(11, 32333), (21, 32477), (33, 32681), (48, 32780), (50, 32789), (56, 32816), (71, 32864), (Start: 163 @33014 has 283 MA's), (190, 33065), (231, 33140), (253, 33176), (319, 33290), (337, 33314), (371, 33368), (429, 33452), (444, 33485), (465, 33521), (466, 33524), (491, 33566), (539, 33653), (556, 33674), (618, 33782), (659, 33842), (710, 33905), (715, 33917), (742, 34025), (757, 34061),

Gene: Mcklovin_36 Start: 33917, Stop: 35044, Start Num: 163

Candidate Starts for Mcklovin_36:

(53, 33698), (62, 33734), (Start: 163 @33917 has 283 MA's), (190, 33971), (276, 34127), (321, 34217), (343, 34250), (465, 34445), (466, 34448), (491, 34490), (513, 34526), (700, 34823), (723, 34901), (734, 34943), (740, 34970), (766, 35033),

Gene: Mcklovin_34 Start: 32550, Stop: 33467, Start Num: 279

Candidate Starts for Mcklovin_34:

(Start: 275 @32544 has 15 MA's), (Start: 279 @32550 has 58 MA's), (393, 32739), (396, 32745), (438, 32847), (448, 32871), (491, 32931), (533, 32988), (535, 32994), (537, 33000), (612, 33114), (615, 33120), (621, 33132), (662, 33207), (675, 33231), (676, 33234), (711, 33270), (714, 33276), (721, 33309), (730, 33345), (742, 33390),

Gene: Mdavu_37 Start: 31629, Stop: 33059, Start Num: 32

Candidate Starts for Mdavu_37:

(30, 31614), (Start: 32 @31629 has 1 MA's), (45, 31722), (51, 31743), (82, 31836), (Start: 163 @31965 has 283 MA's), (190, 32016), (231, 32091), (253, 32127), (310, 32223), (319, 32241), (337, 32265), (367, 32313), (371, 32319), (452, 32451), (465, 32484), (491, 32529), (556, 32637), (618, 32742), (659, 32802), (715, 32877), (742, 32985), (757, 33021),

Gene: MeaningOfLife_42 Start: 33409, Stop: 34497, Start Num: 163

Candidate Starts for MeaningOfLife_42:

(Start: 163 @33409 has 283 MA's), (Start: 218 @33511 has 6 MA's), (231, 33535), (253, 33571), (337, 33709), (371, 33763), (429, 33847), (465, 33916), (466, 33919), (494, 33967), (556, 34069), (618, 34174), (675, 34261), (715, 34309), (757, 34453),

Gene: Medusa_33 Start: 26128, Stop: 25130, Start Num: 218

Candidate Starts for Medusa_33:

(Start: 116 @26296 has 3 MA's), (135, 26269), (Start: 152 @26251 has 119 MA's), (Start: 195 @26182 has 8 MA's), (Start: 218 @26128 has 6 MA's), (346, 25909), (350, 25900), (393, 25864), (418, 25822), (423, 25810), (424, 25807), (464, 25729), (540, 25594), (551, 25576), (609, 25489), (622, 25462), (629, 25447), (639, 25429), (718, 25291), (731, 25243), (738, 25213), (740, 25207), (743, 25195), (761, 25156),

Gene: Megsy_42 Start: 32724, Stop: 33812, Start Num: 163

Candidate Starts for Megsy_42:

(Start: 163 @32724 has 283 MA's), (Start: 218 @32826 has 6 MA's), (231, 32850), (253, 32886), (337, 33024), (371, 33078), (429, 33162), (465, 33231), (466, 33234), (556, 33384), (603, 33462), (618, 33489), (715, 33624), (757, 33768),

Gene: Melba_35 Start: 28919, Stop: 29845, Start Num: 275

Candidate Starts for Melba_35:

(Start: 275 @28919 has 15 MA's), (Start: 279 @28925 has 58 MA's), (346, 29042), (348, 29045), (390, 29108), (393, 29114), (396, 29120), (491, 29306), (531, 29360), (533, 29363), (535, 29369), (546, 29390), (612, 29489), (615, 29495), (621, 29507), (662, 29582), (676, 29609), (711, 29645), (730, 29720),

Gene: Melissauren88_42 Start: 32565, Stop: 33683, Start Num: 163

Candidate Starts for Melissauren88_42:

(Start: 163 @32565 has 283 MA's), (168, 32574), (253, 32736), (346, 32901), (371, 32937), (382, 32946), (438, 33051), (468, 33120), (491, 33159), (504, 33180), (512, 33192), (513, 33195), (519, 33207), (539, 33246), (543, 33252), (560, 33273), (590, 33309), (592, 33312), (609, 33348), (613, 33354), (620, 33369), (625, 33384), (675, 33453), (682, 33468), (717, 33510), (727, 33555), (730, 33564), (740, 33603), (745, 33621), (755, 33642), (762, 33657), (766, 33666), (768, 33669),

Gene: Melons_38 Start: 24495, Stop: 23308, Start Num: 147

Candidate Starts for Melons_38:

(87, 24585), (Start: 147 @24495 has 63 MA's), (341, 24141), (370, 24078), (379, 24066), (624, 23631), (714, 23496), (716, 23484), (768, 23328),

Gene: Melvin_33 Start: 26249, Stop: 25128, Start Num: 152

Candidate Starts for Melvin_33:

(Start: 116 @26294 has 3 MA's), (135, 26267), (Start: 152 @26249 has 119 MA's), (Start: 195 @26180 has 8 MA's), (Start: 218 @26126 has 6 MA's), (346, 25907), (350, 25898), (393, 25862), (418, 25820), (423, 25808), (424, 25805), (464, 25727), (540, 25592), (551, 25574), (609, 25487), (622, 25460), (629, 25445), (639, 25427), (718, 25289), (731, 25241), (738, 25211), (740, 25205), (743, 25193), (761, 25154),

Gene: MiaZeal_87 Start: 50735, Stop: 52009, Start Num: 69

Candidate Starts for MiaZeal_87:

(54, 50678), (Start: 65 @50720 has 1 MA's), (Start: 69 @50735 has 10 MA's), (72, 50738), (Start: 91 @50783 has 1 MA's), (Start: 112 @50822 has 1 MA's), (342, 51203), (418, 51287), (423, 51299), (424, 51302), (491, 51431), (575, 51551), (609, 51614), (619, 51632), (631, 51656), (672, 51728), (737, 51905), (738, 51908), (740, 51914), (745, 51932), (752, 51947), (757, 51956), (759, 51959), (779, 52004),

Gene: MichaelScott_36 Start: 28688, Stop: 29605, Start Num: 279

Candidate Starts for MichaelScott_36:

(Start: 275 @28682 has 15 MA's), (Start: 279 @28688 has 58 MA's), (393, 28877), (396, 28883), (438, 28985), (448, 29009), (491, 29069), (533, 29126), (535, 29132), (537, 29138), (612, 29252), (615, 29258), (621, 29270), (662, 29345), (675, 29369), (676, 29372), (711, 29408), (714, 29414), (721, 29447), (742, 29528),

Gene: MichaelScott_40 Start: 30472, Stop: 31599, Start Num: 163

Candidate Starts for MichaelScott_40:

(129, 30433), (Start: 163 @30472 has 283 MA's), (190, 30526), (250, 30649), (276, 30682), (321, 30772), (343, 30805), (465, 31000), (466, 31003), (491, 31045), (513, 31081), (700, 31378), (723, 31456), (729, 31483), (734, 31498), (740, 31525), (766, 31588),

Gene: Microwolf_36 Start: 26752, Stop: 25646, Start Num: 180

Candidate Starts for Microwolf_36:

(Start: 152 @26791 has 119 MA's), (Start: 180 @26752 has 10 MA's), (Start: 218 @26668 has 6 MA's), (243, 26623), (337, 26467), (350, 26440), (393, 26404), (424, 26347), (464, 26269), (477, 26245), (503, 26206), (540, 26134), (546, 26122), (551, 26116), (559, 26104), (609, 26029), (613, 26023), (622, 26002), (629, 25987), (639, 25969), (655, 25945), (718, 25831), (730, 25786), (731, 25783), (734, 25774), (738, 25753), (740, 25747), (743, 25735), (761, 25696),

Gene: MiculUcigas_34 Start: 26502, Stop: 25381, Start Num: 152

Candidate Starts for MiculUcigas_34:

(Start: 103 @26565 has 3 MA's), (Start: 152 @26502 has 119 MA's), (Start: 188 @26448 has 14 MA's), (Start: 218 @26379 has 6 MA's), (243, 26334), (316, 26208), (350, 26151), (393, 26115), (423, 26061), (424, 26058), (491, 25935), (503, 25917), (551, 25827), (559, 25815), (609, 25740), (613, 25734), (622, 25713), (629, 25698), (639, 25680), (657, 25653), (731, 25494), (738, 25464), (740, 25458), (743, 25446), (761, 25407),

Gene: MidnightRain_38 Start: 25380, Stop: 26300, Start Num: 279

Candidate Starts for MidnightRain_38:

(208, 25251), (211, 25257), (Start: 279 @25380 has 58 MA's), (342, 25494), (380, 25554), (387, 25566), (451, 25713), (490, 25761), (521, 25806), (535, 25830), (537, 25836), (543, 25845), (558, 25869), (595, 25911), (600, 25923), (618, 25962), (625, 25980), (662, 26046), (726, 26166), (730, 26181),

Gene: MidnightRain_42 Start: 28565, Stop: 27426, Start Num: 163

Candidate Starts for MidnightRain_42:

(Start: 163 @28565 has 283 MA's), (190, 28514), (289, 28346), (299, 28328), (388, 28196), (424, 28118), (429, 28106), (465, 28031), (470, 28022), (506, 27962), (557, 27872), (620, 27767), (630, 27746), (645, 27719), (717, 27596), (723, 27572), (726, 27557), (746, 27482), (761, 27452),

Gene: MilanaBonita_37 Start: 29110, Stop: 30237, Start Num: 163

Candidate Starts for MilanaBonita_37:

(Start: 91 @29008 has 1 MA's), (Start: 123 @29065 has 7 MA's), (Start: 163 @29110 has 283 MA's), (168, 29119), (253, 29281), (281, 29332), (289, 29350), (310, 29395), (371, 29491), (382, 29500), (438, 29605), (468, 29674), (491, 29713), (504, 29734), (512, 29746), (513, 29749), (519, 29761), (539, 29800), (543, 29806), (560, 29827), (590, 29863), (592, 29866), (609, 29902), (613, 29908), (618, 29920), (620, 29923), (625, 29938), (675, 30007), (682, 30022), (708, 30040), (717, 30064), (727, 30109), (730, 30118), (734, 30130), (740, 30157), (745, 30175), (755, 30196), (762, 30211), (766, 30220), (768, 30223),

Gene: MilleniumForce_42 Start: 32868, Stop: 33986, Start Num: 163

Candidate Starts for MilleniumForce_42:

(Start: 163 @32868 has 283 MA's), (168, 32877), (253, 33039), (346, 33204), (371, 33240), (382, 33249), (424, 33330), (438, 33354), (468, 33423), (501, 33480), (504, 33483), (512, 33495), (513, 33498), (519, 33510), (539, 33549), (560, 33576), (590, 33612), (592, 33615), (609, 33651), (613, 33657), (620, 33672), (675, 33756), (682, 33771), (717, 33813), (727, 33858), (730, 33867), (740, 33906), (745, 33924), (755, 33945), (762, 33960), (766, 33969), (768, 33972),

Gene: Milly_43 Start: 34290, Stop: 35390, Start Num: 163

Candidate Starts for Milly_43:

(Start: 163 @34290 has 283 MA's), (172, 34308), (190, 34341), (231, 34416), (253, 34452), (319, 34566), (337, 34590), (371, 34644), (458, 34785), (465, 34809), (466, 34812), (491, 34854), (556, 34962), (618, 35067), (651, 35112), (659, 35127), (742, 35319),

Gene: Minerva_84 Start: 53196, Stop: 54425, Start Num: 85

Candidate Starts for Minerva_84:

(Start: 85 @53196 has 29 MA's), (Start: 91 @53214 has 1 MA's), (Start: 112 @53253 has 1 MA's), (Start: 254 @53490 has 1 MA's), (318, 53598), (418, 53718), (419, 53721), (423, 53730), (429, 53745), (447, 53784), (491, 53862), (556, 53967), (562, 53979), (575, 53982), (582, 53991), (607, 54042), (609, 54045), (619, 54063), (672, 54159), (709, 54216), (737, 54336), (738, 54339), (745, 54363), (757, 54387), (759, 54390),

Gene: MinionDave_43 Start: 33105, Stop: 34223, Start Num: 163

Candidate Starts for MinionDave_43:

(Start: 163 @33105 has 283 MA's), (168, 33114), (253, 33276), (284, 33324), (346, 33441), (371, 33477), (382, 33486), (438, 33591), (468, 33660), (491, 33699), (501, 33717), (504, 33720), (512, 33732), (513, 33735), (519, 33747), (539, 33786), (543, 33792), (560, 33813), (590, 33849), (592, 33852), (609, 33888), (613, 33894), (618, 33906), (620, 33909), (625, 33924), (675, 33993), (682, 34008), (708, 34026), (717, 34050), (727, 34095), (730, 34104), (740, 34143), (745, 34161), (755, 34182), (762, 34197), (766, 34206), (768, 34209),

Gene: Minnie_43 Start: 32650, Stop: 33768, Start Num: 163

Candidate Starts for Minnie_43:

(Start: 163 @32650 has 283 MA's), (232, 32788), (253, 32821), (284, 32869), (371, 33022), (382, 33031), (424, 33112), (468, 33205), (491, 33244), (501, 33262), (504, 33265), (512, 33277), (513, 33280), (519, 33292), (529, 33307), (539, 33331), (543, 33337), (560, 33358), (590, 33394), (592, 33397), (609, 33433), (613, 33439), (620, 33454), (625, 33469), (675, 33538), (682, 33553), (717, 33595), (727, 33640), (730, 33649), (740, 33688), (745, 33706), (755, 33727), (762, 33742), (766, 33751), (768, 33754),

Gene: MissWhite_33 Start: 25561, Stop: 24443, Start Num: 152

Candidate Starts for MissWhite_33:

(Start: 152 @25561 has 119 MA's), (179, 25525), (Start: 188 @25507 has 14 MA's), (Start: 218 @25438 has 6 MA's), (226, 25420), (Start: 275 @25345 has 15 MA's), (Start: 279 @25339 has 58 MA's), (337, 25237), (343, 25225), (350, 25210), (393, 25174), (423, 25120), (551, 24886), (559, 24874), (609, 24799), (613, 24793), (622, 24772), (629, 24757), (639, 24739), (657, 24712), (731, 24553), (732, 24550), (738, 24523), (740, 24517), (743, 24505), (761, 24466), (766, 24454),

Gene: Mocha12_37 Start: 27875, Stop: 28957, Start Num: 159

Candidate Starts for Mocha12_37:

(Start: 83 @27758 has 2 MA's), (Start: 86 @27764 has 6 MA's), (Start: 159 @27875 has 52 MA's), (190, 27929), (261, 28049), (423, 28304), (438, 28334), (466, 28394), (506, 28460), (519, 28484), (561, 28553), (590, 28589), (723, 28814), (729, 28841), (766, 28946),

Gene: ModicumRichard_35 Start: 30420, Stop: 29293, Start Num: 147

Candidate Starts for ModicumRichard_35:

(13, 30900), (Start: 147 @30420 has 63 MA's), (Start: 182 @30366 has 4 MA's), (Start: 222 @30261 has 1 MA's), (322, 30090), (372, 30000), (396, 29964), (443, 29850), (496, 29811), (512, 29787), (573, 29691), (643, 29559), (666, 29514), (719, 29442), (761, 29316),

Gene: MoneyMay_36 Start: 26789, Stop: 25644, Start Num: 152

Candidate Starts for MoneyMay_36:

(Start: 152 @26789 has 119 MA's), (Start: 180 @26750 has 10 MA's), (205, 26702), (Start: 218 @26666 has 6 MA's), (243, 26621), (337, 26465), (350, 26438), (393, 26402), (424, 26345), (464, 26267), (477, 26243), (503, 26204), (540, 26132), (546, 26120), (551, 26114), (559, 26102), (609, 26027), (613, 26021), (622, 26000), (629, 25985), (639, 25967), (655, 25943), (718, 25829), (730, 25784), (731, 25781), (734, 25772), (738, 25751), (740, 25745), (743, 25733), (761, 25694),

Gene: MooMoo_41 Start: 31904, Stop: 33025, Start Num: 163

Candidate Starts for MooMoo_41:

(Start: 163 @31904 has 283 MA's), (226, 32033), (253, 32075), (289, 32135), (310, 32180), (371, 32276), (382, 32285), (468, 32462), (504, 32522), (512, 32534), (513, 32537), (514, 32540), (519, 32549), (539, 32588), (543, 32594), (560, 32615), (590, 32651), (592, 32654), (609, 32690), (625, 32726), (643, 32741), (675, 32795), (682, 32810), (701, 32825), (727, 32897), (730, 32906), (734, 32918), (740, 32945), (745, 32963), (755, 32984), (762, 32999),

Gene: Moonbeam_41 Start: 32622, Stop: 33740, Start Num: 163

Candidate Starts for Moonbeam_41:

(Start: 163 @32622 has 283 MA's), (168, 32631), (253, 32793), (284, 32841), (346, 32958), (371, 32994), (382, 33003), (438, 33108), (468, 33177), (491, 33216), (501, 33234), (504, 33237), (512, 33249), (513, 33252), (519, 33264), (529, 33279), (539, 33303), (543, 33309), (560, 33330), (590, 33366), (592, 33369), (609, 33405), (613, 33411), (618, 33423), (620, 33426), (625, 33441), (675, 33510), (682, 33525), (708, 33543), (717, 33567), (727, 33612), (730, 33621), (740, 33660), (745, 33678), (755, 33699), (762, 33714), (766, 33723), (768, 33726),

Gene: Moonflower_36 Start: 30479, Stop: 31372, Start Num: 298

Candidate Starts for Moonflower_36:

(Start: 275 @30449 has 15 MA's), (Start: 279 @30455 has 58 MA's), (Start: 298 @30479 has 1 MA's), (305, 30497), (346, 30572), (348, 30575), (393, 30644), (396, 30650), (448, 30776), (491, 30836), (531, 30890), (535, 30899), (546, 30920), (553, 30929), (577, 30959), (649, 31091), (662, 31112), (675, 31136), (676, 31139), (711, 31175), (717, 31196), (727, 31241),

Gene: Moosehead_35 Start: 25354, Stop: 26436, Start Num: 158

Candidate Starts for Moosehead_35:

(Start: 158 @25354 has 1 MA's), (250, 25513), (284, 25558), (301, 25591), (466, 25864), (491, 25906), (513, 25942), (514, 25945), (519, 25954), (692, 26233), (723, 26293), (766, 26425),

Gene: Morgana_35 Start: 30175, Stop: 29048, Start Num: 147

Candidate Starts for Morgana_35:

(13, 30832), (15, 30778), (Start: 147 @30175 has 63 MA's), (Start: 182 @30121 has 4 MA's), (322, 29845), (372, 29755), (396, 29719), (443, 29605), (496, 29566), (512, 29542), (573, 29446), (643, 29314), (666, 29269), (719, 29197), (761, 29071),

Gene: Morkie_33 Start: 26172, Stop: 27254, Start Num: 159

Candidate Starts for Morkie_33:

(Start: 159 @26172 has 52 MA's), (190, 26226), (261, 26346), (423, 26601), (466, 26691), (506, 26757), (519, 26781), (622, 26952), (723, 27111), (729, 27138), (742, 27186), (766, 27243),

Gene: Morrow_33 Start: 26255, Stop: 25116, Start Num: 152

Candidate Starts for Morrow_33:

(Start: 116 @26300 has 3 MA's), (135, 26273), (Start: 152 @26255 has 119 MA's), (Start: 195 @26186 has 8 MA's), (Start: 218 @26132 has 6 MA's), (346, 25913), (350, 25904), (393, 25868), (418, 25826), (423, 25814), (424, 25811), (464, 25733), (540, 25598), (551, 25580), (609, 25493), (613, 25487), (622, 25466), (629, 25451), (639, 25433), (718, 25295), (731, 25247), (738, 25217), (740, 25211), (743, 25199), (761, 25160), (772, 25136), (775, 25130),

Gene: Mova_42 Start: 31760, Stop: 32878, Start Num: 163

Candidate Starts for Mova_42:

(Start: 163 @31760 has 283 MA's), (232, 31898), (253, 31931), (284, 31979), (371, 32132), (382, 32141), (424, 32222), (468, 32315), (491, 32354), (504, 32375), (512, 32387), (513, 32390), (519, 32402), (529, 32417), (539, 32441), (543, 32447), (560, 32468), (590, 32504), (592, 32507), (609, 32543), (620, 32564), (625, 32579), (675, 32648), (682, 32663), (708, 32681), (717, 32705), (727, 32750), (730, 32759), (734, 32771), (740, 32798), (745, 32816), (755, 32837), (762, 32852), (766, 32861), (768, 32864),

Gene: Mozy_51 Start: 34630, Stop: 35748, Start Num: 163

Candidate Starts for Mozy_51:

(Start: 163 @34630 has 283 MA's), (168, 34639), (253, 34801), (346, 34966), (371, 35002), (382, 35011), (438, 35116), (468, 35185), (491, 35224), (504, 35245), (512, 35257), (513, 35260), (519, 35272), (539, 35311), (543, 35317), (560, 35338), (590, 35374), (592, 35377), (609, 35413), (613, 35419), (620, 35434), (675, 35518), (682, 35533), (717, 35575), (727, 35620), (730, 35629), (740, 35668), (745, 35686), (755, 35707), (762, 35722), (766, 35731), (768, 35734),

Gene: MrSmee_34 Start: 25508, Stop: 24390, Start Num: 146

Candidate Starts for MrSmee_34:

(Start: 146 @25508 has 1 MA's), (248, 25313), (265, 25283), (270, 25277), (292, 25247), (307, 25211), (328, 25178), (332, 25172), (341, 25157), (346, 25148), (377, 25091), (385, 25079), (387, 25076), (393, 25067), (398, 25055), (403, 25046), (425, 24986), (435, 24971), (501, 24905), (511, 24890), (519, 24872), (533, 24848), (534, 24845), (573, 24794), (587, 24770), (611, 24722), (618, 24707), (627, 24686), (630, 24680), (643, 24659), (761, 24419),

Gene: Ms6_36 Start: 27630, Stop: 28748, Start Num: 163

Candidate Starts for Ms6_36:

(Start: 163 @27630 has 283 MA's), (168, 27639), (253, 27801), (346, 27966), (371, 28002), (382, 28011), (438, 28116), (468, 28185), (491, 28224), (504, 28245), (512, 28257), (513, 28260), (519, 28272), (539, 28311), (543, 28317), (560, 28338), (590, 28374), (592, 28377), (609, 28413), (613, 28419), (618, 28431), (620, 28434), (625, 28449), (675, 28518), (682, 28533), (727, 28620), (730, 28629), (740, 28668), (745, 28686), (755, 28707), (762, 28722), (766, 28731), (768, 28734),

Gene: MuchMore_38 Start: 26782, Stop: 25637, Start Num: 152

Candidate Starts for MuchMore_38:

(Start: 152 @26782 has 119 MA's), (Start: 180 @26743 has 10 MA's), (205, 26695), (Start: 218 @26659 has 6 MA's), (243, 26614), (337, 26458), (350, 26431), (393, 26395), (424, 26338), (464, 26260), (477, 26236), (503, 26197), (540, 26125), (546, 26113), (551, 26107), (559, 26095), (609, 26020), (613, 26014), (622, 25993), (629, 25978), (639, 25960), (655, 25936), (718, 25822), (730, 25777), (731, 25774), (734, 25765), (738, 25744), (740, 25738), (743, 25726), (761, 25687),

Gene: Mufasa_44 Start: 34136, Stop: 35236, Start Num: 163

Candidate Starts for Mufasa_44:

(Start: 163 @34136 has 283 MA's), (172, 34154), (190, 34187), (231, 34262), (253, 34298), (319, 34412), (337, 34436), (371, 34490), (396, 34514), (458, 34631), (465, 34655), (466, 34658), (491, 34700), (556, 34808), (618, 34913), (651, 34958), (659, 34973), (742, 35165),

Gene: Mufasa8_27 Start: 25316, Stop: 26536, Start Num: 163

Candidate Starts for Mufasa8_27:

(Start: 163 @25316 has 283 MA's), (232, 25445), (284, 25517), (289, 25529), (354, 25634), (374, 25658), (391, 25670), (411, 25712), (466, 25832), (473, 25844), (483, 25859), (504, 25895), (506, 25898), (519, 25922), (535, 25952), (548, 25976), (550, 25979), (557, 25988), (558, 25991), (603,

26063), (609, 26072), (613, 26078), (630, 26114), (645, 26144), (659, 26171), (682, 26213), (695, 26225),

Gene: Mulch_39 Start: 31322, Stop: 30051, Start Num: 147

Candidate Starts for Mulch_39:

(Start: 147 @31322 has 63 MA's), (160, 31307), (206, 31205), (Start: 222 @31163 has 1 MA's), (230, 31151), (Start: 275 @31076 has 15 MA's), (312, 31001), (317, 30992), (328, 30974), (387, 30875), (390, 30872), (429, 30782), (511, 30677), (557, 30581), (560, 30575), (646, 30413), (716, 30272), (727, 30227), (741, 30176), (743, 30167), (748, 30152), (757, 30140), (762, 30128), (786, 30089),

Gene: Murucutumbu_42 Start: 33469, Stop: 34557, Start Num: 163

Candidate Starts for Murucutumbu_42:

(Start: 163 @33469 has 283 MA's), (Start: 218 @33571 has 6 MA's), (231, 33595), (253, 33631), (289, 33682), (319, 33745), (337, 33769), (371, 33823), (378, 33826), (429, 33907), (465, 33976), (466, 33979), (486, 34009), (556, 34129), (603, 34207), (618, 34234), (715, 34369),

Gene: Mutaforma13_45 Start: 33170, Stop: 34288, Start Num: 163

Candidate Starts for Mutaforma13_45:

(Start: 163 @33170 has 283 MA's), (168, 33179), (232, 33308), (253, 33341), (284, 33389), (346, 33506), (371, 33542), (382, 33551), (438, 33656), (468, 33725), (504, 33785), (512, 33797), (513, 33800), (519, 33812), (529, 33827), (539, 33851), (543, 33857), (560, 33878), (590, 33914), (592, 33917), (609, 33953), (613, 33959), (618, 33971), (620, 33974), (675, 34058), (682, 34073), (717, 34115), (727, 34160), (730, 34169), (740, 34208), (745, 34226), (755, 34247), (762, 34262), (766, 34271), (768, 34274),

Gene: Mutzi_37 Start: 33648, Stop: 34565, Start Num: 279

Candidate Starts for Mutzi_37:

(Start: 275 @33642 has 15 MA's), (Start: 279 @33648 has 58 MA's), (348, 33768), (393, 33837), (396, 33843), (400, 33852), (438, 33945), (530, 34080), (531, 34083), (533, 34086), (535, 34092), (546, 34113), (597, 34176), (610, 34209), (612, 34212), (621, 34230), (649, 34284), (662, 34305), (675, 34329), (676, 34332), (711, 34368), (714, 34374), (717, 34389), (730, 34443), (762, 34536), (773, 34557),

Gene: Mynx_42 Start: 32799, Stop: 33887, Start Num: 163

Candidate Starts for Mynx_42:

(Start: 163 @32799 has 283 MA's), (Start: 218 @32901 has 6 MA's), (231, 32925), (253, 32961), (337, 33099), (371, 33153), (429, 33237), (465, 33306), (466, 33309), (494, 33357), (556, 33459), (618, 33564), (675, 33651), (715, 33699), (757, 33843),

Gene: NaSiaTalie_34 Start: 26377, Stop: 25379, Start Num: 218

Candidate Starts for NaSiaTalie_34:

(Start: 103 @26563 has 3 MA's), (Start: 152 @26500 has 119 MA's), (Start: 188 @26446 has 14 MA's), (Start: 218 @26377 has 6 MA's), (243, 26332), (316, 26206), (350, 26149), (393, 26113), (423, 26059), (424, 26056), (491, 25933), (503, 25915), (551, 25825), (559, 25813), (609, 25738), (613, 25732), (622, 25711), (629, 25696), (639, 25678), (657, 25651), (731, 25492), (738, 25462), (740, 25456), (743, 25444), (761, 25405),

Gene: Nadeem_39 Start: 31322, Stop: 30051, Start Num: 147

Candidate Starts for Nadeem_39:

(Start: 147 @31322 has 63 MA's), (160, 31307), (206, 31205), (Start: 222 @31163 has 1 MA's), (230, 31151), (Start: 275 @31076 has 15 MA's), (312, 31001), (317, 30992), (328, 30974), (387, 30875), (390, 30872), (429, 30782), (511, 30677), (557, 30581), (560, 30575), (646, 30413), (716, 30272), (727, 30227), (741, 30176), (743, 30167), (748, 30152), (757, 30140), (762, 30128), (786, 30089),

Gene: Naji_37 Start: 26474, Stop: 25350, Start Num: 152

Candidate Starts for Naji_37:

(Start: 152 @26474 has 119 MA's), (Start: 188 @26420 has 14 MA's), (Start: 218 @26351 has 6 MA's), (337, 26150), (339, 26147), (350, 26123), (393, 26087), (424, 26030), (438, 26003), (464, 25952), (486, 25919), (491, 25907), (503, 25889), (540, 25817), (551, 25799), (559, 25787), (609, 25712), (613, 25706), (622, 25685), (629, 25670), (639, 25652), (657, 25625), (718, 25514), (731, 25466), (732, 25463), (738, 25436), (740, 25430), (743, 25418), (761, 25379),

Gene: NancyRae_39 Start: 31331, Stop: 30060, Start Num: 147

Candidate Starts for NancyRae_39:

(Start: 147 @31331 has 63 MA's), (160, 31316), (206, 31214), (Start: 222 @31172 has 1 MA's), (230, 31160), (Start: 275 @31085 has 15 MA's), (312, 31010), (317, 31001), (328, 30983), (387, 30884), (390, 30881), (429, 30791), (511, 30686), (560, 30584), (573, 30566), (646, 30422), (716, 30281), (727, 30236), (741, 30185), (743, 30176), (757, 30149), (762, 30137), (786, 30098),

Gene: Nandita_36 Start: 26292, Stop: 27212, Start Num: 279

Candidate Starts for Nandita_36:

(Start: 254 @26250 has 1 MA's), (Start: 279 @26292 has 58 MA's), (365, 26448), (380, 26466), (387, 26478), (451, 26625), (490, 26673), (531, 26733), (535, 26742), (537, 26748), (558, 26781), (579, 26805), (595, 26823), (600, 26835), (618, 26874), (720, 27054), (726, 27078), (730, 27093), (732, 27099), (761, 27180), (762, 27183),

Gene: Nebkiss_56 Start: 37263, Stop: 38534, Start Num: 69

Candidate Starts for Nebkiss_56:

(Start: 69 @37263 has 10 MA's), (Start: 91 @37311 has 1 MA's), (Start: 112 @37350 has 1 MA's), (284, 37629), (355, 37746), (418, 37815), (419, 37818), (423, 37827), (438, 37857), (470, 37923), (491, 37959), (510, 37986), (512, 37989), (519, 38004), (522, 38010), (541, 38043), (551, 38058), (554, 38061), (556, 38064), (562, 38076), (575, 38094), (582, 38103), (602, 38145), (605, 38151), (607, 38154), (631, 38199), (672, 38271), (712, 38337), (717, 38364), (737, 38448), (738, 38451), (746, 38478), (757, 38499),

Gene: Nebs_33 Start: 26248, Stop: 25127, Start Num: 152

Candidate Starts for Nebs_33:

(Start: 116 @26293 has 3 MA's), (135, 26266), (Start: 152 @26248 has 119 MA's), (Start: 195 @26179 has 8 MA's), (Start: 218 @26125 has 6 MA's), (346, 25906), (350, 25897), (393, 25861), (418, 25819), (423, 25807), (424, 25804), (464, 25726), (540, 25591), (551, 25573), (609, 25486), (613, 25480), (622, 25459), (629, 25444), (639, 25426), (718, 25288), (731, 25240), (738, 25210), (740, 25204), (743, 25192), (761, 25153),

Gene: Neobush_39 Start: 30557, Stop: 31639, Start Num: 159

Candidate Starts for Neobush_39:

(Start: 86 @30446 has 6 MA's), (Start: 159 @30557 has 52 MA's), (190, 30611), (261, 30731), (423, 30986), (438, 31016), (466, 31076), (506, 31142), (519, 31166), (723, 31496), (729, 31523), (766, 31628),

Gene: Nettuno_33 Start: 26384, Stop: 27466, Start Num: 159

Candidate Starts for Nettuno_33:

(Start: 83 @26267 has 2 MA's), (Start: 86 @26273 has 6 MA's), (Start: 159 @26384 has 52 MA's), (190, 26438), (261, 26558), (423, 26813), (438, 26843), (466, 26903), (506, 26969), (519, 26993), (590, 27098), (723, 27323), (729, 27350), (766, 27455),

Gene: Neville_8 Start: 3425, Stop: 2322, Start Num: 174

Candidate Starts for Neville_8:

(161, 3452), (Start: 174 @3425 has 12 MA's), (183, 3413), (204, 3359), (213, 3344), (220, 3320), (236, 3293), (306, 3167), (353, 3095), (397, 3032), (402, 3020), (415, 2981), (461, 2897), (472, 2876), (520, 2789), (572, 2720), (580, 2708), (630, 2612), (641, 2588), (673, 2528), (696, 2492), (717, 2477), (726, 2438), (736, 2396),

Gene: Nibb_43 Start: 32855, Stop: 33940, Start Num: 163

Candidate Starts for Nibb_43:

(Start: 163 @32855 has 283 MA's), (234, 32990), (253, 33017), (358, 33197), (371, 33209), (429, 33293), (465, 33362), (466, 33365), (556, 33515), (618, 33620), (675, 33707), (715, 33755), (742, 33863), (762, 33911),

Gene: NicoleTera_37 Start: 27751, Stop: 26633, Start Num: 152

Candidate Starts for NicoleTera_37:

(Start: 152 @27751 has 119 MA's), (Start: 188 @27697 has 14 MA's), (Start: 218 @27628 has 6 MA's), (337, 27427), (350, 27400), (393, 27364), (418, 27322), (424, 27307), (464, 27229), (491, 27184), (551, 27076), (559, 27064), (592, 27025), (609, 26989), (613, 26983), (622, 26962), (629, 26947), (639, 26929), (657, 26902), (718, 26791), (731, 26743), (732, 26740), (738, 26713), (740, 26707), (743, 26695), (761, 26656),

Gene: NihilNomen_82 Start: 53150, Stop: 54379, Start Num: 85

Candidate Starts for NihilNomen_82:

(Start: 85 @53150 has 29 MA's), (Start: 91 @53168 has 1 MA's), (Start: 112 @53207 has 1 MA's), (Start: 254 @53444 has 1 MA's), (318, 53552), (418, 53672), (419, 53675), (423, 53684), (429, 53699), (447, 53738), (491, 53816), (556, 53921), (562, 53933), (575, 53936), (582, 53945), (607, 53996), (609, 53999), (619, 54017), (672, 54113), (709, 54170), (737, 54290), (738, 54293), (745, 54317), (757, 54341), (759, 54344),

Gene: Nikao_39 Start: 34589, Stop: 35683, Start Num: 163

Candidate Starts for Nikao_39:

(30, 34238), (Start: 32 @34253 has 1 MA's), (45, 34346), (51, 34367), (82, 34460), (Start: 163 @34589 has 283 MA's), (190, 34640), (231, 34715), (253, 34751), (310, 34847), (319, 34865), (337, 34889), (367, 34937), (371, 34943), (452, 35075), (465, 35108), (491, 35153), (556, 35261), (618, 35366), (659, 35426), (715, 35501), (742, 35609), (757, 35645),

Gene: Niklas_43 Start: 33040, Stop: 34131, Start Num: 163

Candidate Starts for Niklas_43:

(33, 32707), (48, 32806), (50, 32815), (56, 32842), (71, 32890), (Start: 163 @33040 has 283 MA's), (231, 33166), (253, 33202), (319, 33316), (337, 33340), (371, 33394), (429, 33478), (444, 33511), (465, 33547), (466, 33550), (491, 33592), (539, 33679), (556, 33700), (618, 33808), (659, 33868), (710, 33931), (715, 33943), (742, 34051), (757, 34087),

Gene: NothingSpecial_35 Start: 27853, Stop: 26801, Start Num: 195

Candidate Starts for NothingSpecial_35:

(135, 27940), (Start: 152 @27922 has 119 MA's), (Start: 195 @27853 has 8 MA's), (200, 27844), (Start: 218 @27799 has 6 MA's), (226, 27781), (243, 27754), (311, 27637), (337, 27598), (346, 27580), (350, 27571), (393, 27535), (418, 27493), (422, 27484), (424, 27478), (464, 27400), (491, 27355), (551, 27247), (559, 27235), (609, 27160), (613, 27154), (622, 27133), (629, 27118), (639, 27100), (718, 26962), (731, 26914), (738, 26884), (740, 26878), (743, 26866), (761, 26827),

Gene: Nutello_36 Start: 31976, Stop: 33070, Start Num: 163

Candidate Starts for Nutello_36:

(30, 31625), (Start: 32 @31640 has 1 MA's), (45, 31733), (51, 31754), (82, 31847), (Start: 163 @31976 has 283 MA's), (190, 32027), (231, 32102), (253, 32138), (310, 32234), (319, 32252), (337, 32276), (367, 32324), (371, 32330), (452, 32462), (465, 32495), (491, 32540), (556, 32648), (618, 32753), (659, 32813), (715, 32888), (742, 32996), (757, 33032),

Gene: Nymphadora_39 Start: 32012, Stop: 33094, Start Num: 159

Candidate Starts for Nymphadora_39:

(Start: 86 @31901 has 6 MA's), (Start: 159 @32012 has 52 MA's), (190, 32066), (261, 32186), (419, 32432), (423, 32441), (438, 32471), (466, 32531), (506, 32597), (519, 32621), (723, 32951), (729, 32978), (766, 33083),

Gene: OBUpride_29 Start: 26514, Stop: 25279, Start Num: 145

Candidate Starts for OBUpride_29:

(Start: 145 @26514 has 2 MA's), (Start: 171 @26472 has 20 MA's), (205, 26406), (244, 26325), (263, 26286), (274, 26271), (277, 26265), (282, 26253), (297, 26226), (314, 26193), (350, 26136), (362, 26103), (364, 26100), (396, 26052), (410, 26010), (411, 26007), (422, 25983), (431, 25968), (441, 25944), (449, 25929), (476, 25890), (487, 25878), (507, 25839), (530, 25800), (558, 25752), (560, 25749), (609, 25677), (613, 25671), (618, 25659), (620, 25656), (622, 25650), (649, 25596), (658, 25578), (660, 25575), (677, 25548), (686, 25530), (689, 25524), (691, 25521), (715, 25479), (721, 25452), (723, 25446), (736, 25389), (764, 25326), (766, 25323),

Gene: ODay_52 Start: 33934, Stop: 35028, Start Num: 163

Candidate Starts for ODay_52:

(Start: 163 @33934 has 283 MA's), (190, 33985), (216, 34033), (232, 34063), (250, 34090), (301, 34168), (303, 34177), (429, 34369), (439, 34387), (491, 34486), (512, 34519), (513, 34522), (519, 34534), (592, 34636), (623, 34702), (641, 34729), (643, 34732), (692, 34801), (703, 34810), (723, 34861), (724, 34864), (730, 34891), (734, 34903), (768, 34996),

Gene: ObLaDi_35 Start: 30398, Stop: 29271, Start Num: 147

Candidate Starts for ObLaDi_35:

(Start: 147 @30398 has 63 MA's), (Start: 182 @30344 has 4 MA's), (Start: 222 @30239 has 1 MA's), (322, 30068), (372, 29978), (396, 29942), (496, 29789), (512, 29765), (573, 29669), (643, 29537), (666, 29492), (719, 29420), (761, 29294),

Gene: Obama12_34 Start: 26520, Stop: 25468, Start Num: 195

Candidate Starts for Obama12_34:

(Start: 116 @26634 has 3 MA's), (135, 26607), (Start: 152 @26589 has 119 MA's), (Start: 195 @26520 has 8 MA's), (Start: 218 @26466 has 6 MA's), (346, 26247), (350, 26238), (393, 26202), (418, 26160), (423, 26148), (424, 26145), (540, 25932), (551, 25914), (609, 25827), (613, 25821), (622, 25800), (629, 25785), (639, 25767), (718, 25629), (731, 25581), (738, 25551), (740, 25545), (743, 25533), (761, 25494),

Gene: Octobien14_6 Start: 2858, Stop: 1764, Start Num: 182

Candidate Starts for Octobien14_6:

(80, 3011), (Start: 182 @2858 has 4 MA's), (313, 2582), (365, 2495), (498, 2282), (511, 2264), (535, 2225), (593, 2141), (608, 2105), (621, 2084), (623, 2078), (663, 2003), (694, 1952), (727, 1883), (730, 1874), (737, 1844), (738, 1841),

Gene: Odette_80 Start: 52249, Stop: 53421, Start Num: 112

Candidate Starts for Odette_80:

(Start: 85 @52192 has 29 MA's), (Start: 91 @52210 has 1 MA's), (Start: 112 @52249 has 1 MA's), (Start: 254 @52486 has 1 MA's), (318, 52594), (418, 52714), (419, 52717), (423, 52726), (429, 52741), (447, 52780), (491, 52858), (556, 52963), (562, 52975), (575, 52978), (582, 52987), (607, 53038),

(609, 53041), (619, 53059), (672, 53155), (709, 53212), (737, 53332), (738, 53335), (745, 53359), (757, 53383), (759, 53386),

Gene: Odin_33 Start: 25191, Stop: 24076, Start Num: 157

Candidate Starts for Odin_33:

(Start: 157 @25191 has 6 MA's), (Start: 188 @25143 has 14 MA's), (205, 25110), (Start: 218 @25074 has 6 MA's), (243, 25029), (343, 24861), (350, 24846), (393, 24810), (418, 24768), (423, 24756), (424, 24753), (486, 24642), (551, 24522), (559, 24510), (582, 24489), (609, 24435), (622, 24408), (629, 24393), (639, 24375), (657, 24348), (731, 24189), (738, 24159), (740, 24153), (743, 24141), (761, 24102), (764, 24093),

Gene: Ohfah_33 Start: 26248, Stop: 25127, Start Num: 152

Candidate Starts for Ohfah_33:

(Start: 116 @26293 has 3 MA's), (135, 26266), (Start: 152 @26248 has 119 MA's), (Start: 195 @26179 has 8 MA's), (Start: 218 @26125 has 6 MA's), (346, 25906), (350, 25897), (393, 25861), (418, 25819), (423, 25807), (424, 25804), (464, 25726), (540, 25591), (551, 25573), (609, 25486), (613, 25480), (622, 25459), (629, 25444), (639, 25426), (718, 25288), (731, 25240), (738, 25210), (740, 25204), (743, 25192), (761, 25153),

Gene: Ohgeesy_38 Start: 32336, Stop: 31074, Start Num: 147

Candidate Starts for Ohgeesy_38:

(Start: 147 @32336 has 63 MA's), (221, 32180), (322, 31997), (344, 31961), (379, 31901), (387, 31889), (408, 31844), (421, 31811), (439, 31769), (560, 31601), (563, 31598), (609, 31523), (618, 31505), (620, 31502), (646, 31445), (707, 31328), (714, 31316), (727, 31259), (743, 31199), (748, 31184), (757, 31172), (761, 31163), (778, 31124),

Gene: OlanP_35 Start: 26824, Stop: 25679, Start Num: 152

Candidate Starts for OlanP_35:

(Start: 103 @26887 has 3 MA's), (Start: 152 @26824 has 119 MA's), (Start: 188 @26770 has 14 MA's), (Start: 218 @26701 has 6 MA's), (296, 26572), (313, 26536), (346, 26482), (350, 26473), (393, 26437), (424, 26380), (464, 26302), (486, 26269), (540, 26167), (551, 26149), (559, 26137), (609, 26062), (613, 26056), (622, 26035), (629, 26020), (639, 26002), (668, 25951), (730, 25819), (731, 25816), (738, 25786), (740, 25780), (743, 25768), (761, 25729),

Gene: Ollie_36 Start: 26621, Stop: 25515, Start Num: 180

Candidate Starts for Ollie_36:

(Start: 152 @26660 has 119 MA's), (Start: 180 @26621 has 10 MA's), (Start: 218 @26537 has 6 MA's), (243, 26492), (337, 26336), (350, 26309), (393, 26273), (424, 26216), (464, 26138), (477, 26114), (503, 26075), (540, 26003), (546, 25991), (551, 25985), (559, 25973), (609, 25898), (613, 25892), (622, 25871), (629, 25856), (639, 25838), (718, 25700), (730, 25655), (731, 25652), (734, 25643), (738, 25622), (740, 25616), (743, 25604), (761, 25565),

Gene: Omega_85 Start: 53296, Stop: 54570, Start Num: 69

Candidate Starts for Omega_85:

(54, 53239), (Start: 65 @53281 has 1 MA's), (Start: 69 @53296 has 10 MA's), (72, 53299), (Start: 91 @53344 has 1 MA's), (Start: 112 @53383 has 1 MA's), (342, 53764), (418, 53848), (423, 53860), (424, 53863), (491, 53992), (575, 54112), (609, 54175), (619, 54193), (631, 54217), (672, 54289), (737, 54466), (738, 54469), (740, 54475), (745, 54493), (752, 54508), (757, 54517), (759, 54520), (779, 54565),

Gene: OneDirection_30 Start: 24794, Stop: 25876, Start Num: 159

Candidate Starts for OneDirection_30:

(Start: 86 @24683 has 6 MA's), (Start: 159 @24794 has 52 MA's), (175, 24821), (190, 24848), (261, 24968), (423, 25223), (466, 25313), (506, 25379), (519, 25403), (723, 25733), (726, 25748), (729, 25760), (742, 25808), (766, 25865),

Gene: OnionKnight_30 Start: 24231, Stop: 22948, Start Num: 106

Candidate Starts for OnionKnight_30:

(Start: 106 @24231 has 1 MA's), (Start: 154 @24165 has 3 MA's), (231, 24003), (287, 23898), (350, 23781), (364, 23754), (383, 23733), (392, 23718), (451, 23586), (483, 23544), (518, 23478), (524, 23469), (554, 23418), (568, 23400), (589, 23370), (595, 23361), (606, 23331), (631, 23286), (679, 23193), (715, 23151), (718, 23133), (723, 23118), (730, 23088), (734, 23076), (739, 23052), (749, 23019), (756, 23007), (761, 22998), (762, 22995), (781, 22953),

Gene: Optimus_79 Start: 51901, Stop: 53130, Start Num: 85

Candidate Starts for Optimus_79:

(Start: 85 @51901 has 29 MA's), (Start: 91 @51919 has 1 MA's), (Start: 112 @51958 has 1 MA's), (Start: 254 @52195 has 1 MA's), (318, 52303), (418, 52423), (419, 52426), (423, 52435), (429, 52450), (447, 52489), (491, 52567), (556, 52672), (562, 52684), (575, 52687), (582, 52696), (607, 52747), (609, 52750), (619, 52768), (672, 52864), (709, 52921), (737, 53041), (738, 53044), (745, 53068), (757, 53092), (759, 53095),

Gene: Orcanus_34 Start: 24639, Stop: 23455, Start Num: 147

Candidate Starts for Orcanus_34:

(Start: 147 @24639 has 63 MA's), (263, 24420), (Start: 275 @24402 has 15 MA's), (341, 24285), (379, 24210), (387, 24198), (570, 23880), (620, 23787), (624, 23775), (633, 23757), (714, 23640), (722, 23604),

Gene: Oregano_37 Start: 27817, Stop: 28734, Start Num: 279

Candidate Starts for Oregano_37:

(Start: 275 @27811 has 15 MA's), (Start: 279 @27817 has 58 MA's), (393, 28006), (396, 28012), (438, 28114), (448, 28138), (491, 28198), (533, 28255), (535, 28261), (537, 28267), (612, 28381), (615, 28387), (621, 28399), (662, 28474), (675, 28498), (676, 28501), (711, 28537), (714, 28543), (721, 28576),

Gene: Oregano_39 Start: 29184, Stop: 30311, Start Num: 163

Candidate Starts for Oregano_39:

(53, 28965), (62, 29001), (Start: 163 @29184 has 283 MA's), (190, 29238), (250, 29361), (276, 29394), (321, 29484), (343, 29517), (465, 29712), (466, 29715), (491, 29757), (513, 29793), (700, 30090), (734, 30210), (740, 30237), (766, 30300),

Gene: Oscar_45 Start: 33597, Stop: 34682, Start Num: 163

Candidate Starts for Oscar_45:

(17, 32994), (19, 33012), (22, 33090), (31, 33261), (42, 33336), (51, 33375), (63, 33429), (Start: 163 @33597 has 283 MA's), (234, 33732), (253, 33759), (337, 33897), (358, 33939), (371, 33951), (429, 34035), (465, 34104), (466, 34107), (491, 34149), (556, 34257), (618, 34362), (675, 34449), (715, 34497), (742, 34605), (762, 34653),

Gene: Ovechkin_41 Start: 32949, Stop: 34067, Start Num: 163

Candidate Starts for Ovechkin_41:

(Start: 163 @32949 has 283 MA's), (168, 32958), (253, 33120), (346, 33285), (371, 33321), (382, 33330), (438, 33435), (468, 33504), (501, 33561), (504, 33564), (512, 33576), (513, 33579), (519, 33591), (539, 33630), (560, 33657), (590, 33693), (592, 33696), (609, 33732), (613, 33738), (620, 33753), (625, 33768), (675, 33837), (682, 33852), (717, 33894), (727, 33939), (730, 33948), (740, 33987), (745, 34005), (755, 34026), (762, 34041), (766, 34050), (768, 34053),

Gene: P28Green_36 Start: 26792, Stop: 25647, Start Num: 152

Candidate Starts for P28Green_36:

(Start: 152 @26792 has 119 MA's), (Start: 180 @26753 has 10 MA's), (205, 26705), (Start: 218 @26669 has 6 MA's), (243, 26624), (337, 26468), (350, 26441), (393, 26405), (424, 26348), (464, 26270), (477, 26246), (503, 26207), (540, 26135), (546, 26123), (551, 26117), (559, 26105), (609, 26030), (613, 26024), (622, 26003), (629, 25988), (639, 25970), (655, 25946), (718, 25832), (730, 25787), (731, 25784), (734, 25775), (738, 25754), (740, 25748), (743, 25736), (761, 25697),

Gene: PFR1_26 Start: 22175, Stop: 21039, Start Num: 157

Candidate Starts for PFR1_26:

(101, 22253), (Start: 157 @22175 has 6 MA's), (Start: 165 @22166 has 1 MA's), (223, 22031), (227, 22025), (246, 21998), (252, 21986), (Start: 254 @21983 has 1 MA's), (266, 21965), (300, 21902), (356, 21818), (363, 21797), (419, 21728), (470, 21638), (484, 21614), (511, 21566), (539, 21509), (559, 21482), (583, 21464), (599, 21437), (617, 21398), (639, 21350), (695, 21263), (701, 21251), (714, 21233), (724, 21191), (726, 21179), (729, 21167), (733, 21155), (735, 21140),

Gene: PFR2_28 Start: 23744, Stop: 22608, Start Num: 157

Candidate Starts for PFR2_28:

(101, 23822), (Start: 157 @23744 has 6 MA's), (Start: 165 @23735 has 1 MA's), (223, 23600), (227, 23594), (246, 23567), (252, 23555), (Start: 254 @23552 has 1 MA's), (266, 23534), (300, 23471), (356, 23387), (363, 23366), (419, 23297), (470, 23207), (484, 23183), (511, 23135), (539, 23078), (559, 23051), (583, 23033), (599, 23006), (617, 22967), (639, 22919), (695, 22832), (701, 22820), (714, 22802), (724, 22760), (726, 22748), (729, 22736), (733, 22724), (735, 22709),

Gene: PGHhamlin_38 Start: 26782, Stop: 25637, Start Num: 152

Candidate Starts for PGHhamlin_38:

(Start: 152 @26782 has 119 MA's), (Start: 180 @26743 has 10 MA's), (Start: 218 @26659 has 6 MA's), (243, 26614), (337, 26458), (350, 26431), (393, 26395), (424, 26338), (464, 26260), (477, 26236), (503, 26197), (540, 26125), (546, 26113), (551, 26107), (559, 26095), (609, 26020), (613, 26014), (622, 25993), (629, 25978), (639, 25960), (655, 25936), (718, 25822), (730, 25777), (731, 25774), (734, 25765), (738, 25744), (740, 25738), (743, 25726), (761, 25687),

Gene: Padfoot_41 Start: 32792, Stop: 33880, Start Num: 163

Candidate Starts for Padfoot_41:

(Start: 163 @32792 has 283 MA's), (Start: 218 @32894 has 6 MA's), (231, 32918), (253, 32954), (337, 33092), (429, 33230), (465, 33299), (466, 33302), (556, 33452), (618, 33557), (715, 33692),

Gene: Padpat_42 Start: 32470, Stop: 33558, Start Num: 163

Candidate Starts for Padpat_42:

(Start: 163 @32470 has 283 MA's), (190, 32521), (Start: 218 @32572 has 6 MA's), (231, 32596), (253, 32632), (337, 32770), (371, 32824), (429, 32908), (465, 32977), (466, 32980), (556, 33130), (603, 33208), (618, 33235), (675, 33322), (715, 33370),

Gene: PantheRoc_37 Start: 30354, Stop: 29092, Start Num: 147

Candidate Starts for PantheRoc_37:

(Start: 147 @30354 has 63 MA's), (221, 30198), (322, 30015), (344, 29979), (379, 29919), (387, 29907), (408, 29862), (421, 29829), (439, 29787), (560, 29619), (563, 29616), (609, 29541), (618, 29523), (620, 29520), (646, 29463), (707, 29346), (714, 29334), (727, 29277), (743, 29217), (748, 29202), (757, 29190), (761, 29181), (778, 29142),

Gene: Parada_39 Start: 31322, Stop: 30051, Start Num: 147

Candidate Starts for Parada_39:

(Start: 147 @31322 has 63 MA's), (160, 31307), (206, 31205), (Start: 222 @31163 has 1 MA's), (230, 31151), (Start: 275 @31076 has 15 MA's), (312, 31001), (317, 30992), (328, 30974), (387, 30875), (390, 30872), (429, 30782), (511, 30677), (557, 30581), (560, 30575), (646, 30413), (716, 30272), (727, 30227), (741, 30176), (743, 30167), (748, 30152), (757, 30140), (762, 30128), (786, 30089),

Gene: Pawn_35 Start: 26644, Stop: 25499, Start Num: 152

Candidate Starts for Pawn_35:

(Start: 103 @26707 has 3 MA's), (Start: 152 @26644 has 119 MA's), (Start: 188 @26590 has 14 MA's), (Start: 218 @26521 has 6 MA's), (346, 26302), (350, 26293), (393, 26257), (424, 26200), (464, 26122), (486, 26089), (540, 25987), (551, 25969), (559, 25957), (609, 25882), (613, 25876), (622, 25855), (629, 25840), (639, 25822), (655, 25798), (730, 25639), (731, 25636), (738, 25606), (740, 25600), (743, 25588), (761, 25549),

Gene: Peanam_43 Start: 33014, Stop: 34105, Start Num: 163

Candidate Starts for Peanam_43:

(11, 32333), (21, 32477), (33, 32681), (48, 32780), (50, 32789), (56, 32816), (71, 32864), (Start: 163 @33014 has 283 MA's), (231, 33140), (253, 33176), (319, 33290), (337, 33314), (371, 33368), (429, 33452), (444, 33485), (465, 33521), (466, 33524), (491, 33566), (539, 33653), (556, 33674), (618, 33782), (659, 33842), (710, 33905), (715, 33917), (742, 34025), (757, 34061),

Gene: Peas_35 Start: 27040, Stop: 28182, Start Num: 163

Candidate Starts for Peas_35:

(Start: 163 @27040 has 283 MA's), (361, 27394), (368, 27400), (384, 27415), (411, 27469), (438, 27526), (465, 27586), (483, 27616), (519, 27679), (592, 27799), (614, 27847), (682, 27973), (695, 27985), (730, 28081), (753, 28156),

Gene: Peel_41 Start: 32597, Stop: 33685, Start Num: 163

Candidate Starts for Peel_41:

(16, 31994), (24, 32171), (41, 32336), (51, 32375), (Start: 163 @32597 has 283 MA's), (190, 32648), (Start: 218 @32699 has 6 MA's), (231, 32723), (253, 32759), (337, 32897), (429, 33035), (465, 33104), (466, 33107), (556, 33257), (618, 33362), (715, 33497),

Gene: PeggyLeg03_34 Start: 24890, Stop: 25810, Start Num: 279

Candidate Starts for PeggyLeg03_34:

(Start: 279 @24890 has 58 MA's), (365, 25046), (380, 25064), (387, 25076), (451, 25223), (464, 25232), (490, 25271), (535, 25340), (537, 25346), (558, 25379), (595, 25421), (600, 25433), (720, 25652), (724, 25664), (726, 25676), (730, 25691), (732, 25697), (761, 25778), (762, 25781),

Gene: Pelletreau_41 Start: 25089, Stop: 23905, Start Num: 147

Candidate Starts for Pelletreau_41:

(Start: 147 @25089 has 63 MA's), (263, 24870), (Start: 275 @24852 has 15 MA's), (341, 24735), (379, 24660), (570, 24330), (620, 24237), (624, 24225), (633, 24207), (714, 24090), (722, 24054),

Gene: Pembroke_36 Start: 26791, Stop: 25646, Start Num: 152

Candidate Starts for Pembroke_36:

(Start: 152 @26791 has 119 MA's), (Start: 180 @26752 has 10 MA's), (Start: 218 @26668 has 6 MA's), (243, 26623), (337, 26467), (350, 26440), (393, 26404), (424, 26347), (464, 26269), (477, 26245), (503, 26206), (540, 26134), (546, 26122), (551, 26116), (559, 26104), (609, 26029), (613, 26023), (622, 26002), (629, 25987), (639, 25969), (655, 25945), (718, 25831), (730, 25786), (731, 25783), (734, 25774), (738, 25753), (740, 25747), (743, 25735), (761, 25696),

Gene: Penny1_36 Start: 26790, Stop: 25645, Start Num: 152

Candidate Starts for Penny1_36:

(Start: 152 @26790 has 119 MA's), (Start: 180 @26751 has 10 MA's), (205, 26703), (Start: 218 @26667 has 6 MA's), (243, 26622), (337, 26466), (350, 26439), (393, 26403), (424, 26346), (464, 26268), (477, 26244), (503, 26205), (540, 26133), (546, 26121), (551, 26115), (559, 26103), (609, 26028), (613, 26022), (622, 26001), (629, 25986), (639, 25968), (655, 25944), (718, 25830), (730, 25785), (731, 25782), (734, 25773), (738, 25752), (740, 25746), (743, 25734), (761, 25695),

Gene: Pepperoni_31 Start: 25939, Stop: 27021, Start Num: 159

Candidate Starts for Pepperoni_31:

(Start: 159 @25939 has 52 MA's), (190, 25993), (261, 26113), (438, 26398), (466, 26458), (506, 26524), (519, 26548), (590, 26653), (622, 26719), (723, 26878), (729, 26905), (742, 26953), (766, 27010),

Gene: Periwinkle_57 Start: 34837, Stop: 35922, Start Num: 163

Candidate Starts for Periwinkle_57:

(94, 34750), (115, 34786), (Start: 163 @34837 has 283 MA's), (190, 34888), (216, 34936), (232, 34966), (250, 34993), (303, 35080), (346, 35152), (371, 35188), (382, 35197), (429, 35272), (439, 35290), (491, 35389), (512, 35422), (513, 35425), (519, 35437), (552, 35488), (592, 35539), (623, 35605), (692, 35704), (723, 35764), (729, 35791), (740, 35833), (768, 35899),

Gene: Persistence_35 Start: 26237, Stop: 25068, Start Num: 163

Candidate Starts for Persistence_35:

(88, 26342), (107, 26303), (Start: 163 @26237 has 283 MA's), (190, 26186), (289, 26018), (299, 26000), (350, 25904), (388, 25868), (424, 25790), (465, 25703), (470, 25694), (506, 25634), (557, 25544), (620, 25439), (622, 25433), (645, 25391), (717, 25274), (722, 25253), (723, 25250), (726, 25235), (740, 25181), (785, 25085),

Gene: Ph8s_35 Start: 25309, Stop: 24314, Start Num: 218

Candidate Starts for Ph8s_35:

(Start: 157 @25426 has 6 MA's), (205, 25345), (Start: 218 @25309 has 6 MA's), (243, 25264), (343, 25096), (350, 25081), (393, 25045), (418, 25003), (423, 24991), (424, 24988), (436, 24964), (483, 24880), (540, 24775), (551, 24757), (559, 24745), (582, 24724), (609, 24670), (622, 24643), (629, 24628), (639, 24610), (657, 24583), (718, 24472), (731, 24424), (738, 24394), (740, 24388), (743, 24376), (761, 24337),

Gene: Phabuloso_48 Start: 32389, Stop: 33486, Start Num: 163

Candidate Starts for Phabuloso_48:

(Start: 163 @32389 has 283 MA's), (190, 32440), (232, 32518), (250, 32545), (303, 32632), (346, 32704), (371, 32740), (382, 32749), (429, 32824), (439, 32842), (450, 32869), (491, 32941), (512, 32974), (513, 32977), (519, 32989), (692, 33256), (723, 33316), (729, 33343), (742, 33391), (745, 33403), (768, 33451),

Gene: Phaded_37 Start: 28341, Stop: 27214, Start Num: 152

Candidate Starts for Phaded_37:

(Start: 152 @28341 has 119 MA's), (Start: 180 @28305 has 10 MA's), (Start: 218 @28221 has 6 MA's), (243, 28176), (318, 28047), (343, 28008), (393, 27957), (448, 27846), (464, 27822), (486, 27789), (491, 27777), (551, 27669), (554, 27666), (609, 27582), (613, 27576), (622, 27555), (629, 27540), (639, 27522), (731, 27336), (738, 27306), (740, 27300), (743, 27288), (761, 27249), (774, 27225),

Gene: Phalconet_41 Start: 31939, Stop: 33057, Start Num: 163

Candidate Starts for Phalconet_41:

(Start: 163 @31939 has 283 MA's), (168, 31948), (253, 32110), (346, 32275), (371, 32311), (382, 32320), (468, 32494), (491, 32533), (504, 32554), (512, 32566), (513, 32569), (519, 32581), (539,

32620), (543, 32626), (560, 32647), (590, 32683), (592, 32686), (609, 32722), (613, 32728), (620, 32743), (675, 32827), (682, 32842), (708, 32860), (727, 32929), (730, 32938), (740, 32977), (745, 32995), (755, 33016), (762, 33031), (766, 33040), (768, 33043),

Gene: Phanphagia_37 Start: 31053, Stop: 32171, Start Num: 163

Candidate Starts for Phanphagia_37:

(Start: 163 @31053 has 283 MA's), (168, 31062), (253, 31224), (346, 31389), (371, 31425), (382, 31434), (438, 31539), (468, 31608), (491, 31647), (501, 31665), (504, 31668), (512, 31680), (513, 31683), (519, 31695), (529, 31710), (539, 31734), (543, 31740), (560, 31761), (590, 31797), (592, 31800), (609, 31836), (613, 31842), (620, 31857), (625, 31872), (675, 31941), (682, 31956), (717, 31998), (727, 32043), (730, 32052), (734, 32064), (740, 32091), (745, 32109), (755, 32130), (762, 32145), (766, 32154), (768, 32157),

Gene: Phantastic_33 Start: 26109, Stop: 24964, Start Num: 133

Candidate Starts for Phantastic_33:

(Start: 133 @26109 has 2 MA's), (Start: 140 @26100 has 3 MA's), (Start: 218 @25965 has 6 MA's), (243, 25920), (348, 25743), (350, 25737), (358, 25722), (393, 25701), (424, 25644), (464, 25566), (503, 25503), (551, 25413), (559, 25401), (609, 25326), (622, 25299), (629, 25284), (639, 25266), (655, 25242), (718, 25128), (731, 25080), (738, 25050), (740, 25044), (743, 25032), (752, 25011), (761, 24993),

Gene: Pharaoh_32 Start: 27018, Stop: 25882, Start Num: 138

Candidate Starts for Pharaoh_32:

(111, 27054), (113, 27051), (Start: 138 @27018 has 7 MA's), (Start: 195 @26937 has 8 MA's), (Start: 218 @26883 has 6 MA's), (243, 26838), (350, 26655), (393, 26619), (423, 26565), (424, 26562), (429, 26550), (464, 26484), (483, 26454), (491, 26439), (540, 26349), (551, 26331), (559, 26319), (609, 26244), (613, 26238), (622, 26217), (629, 26202), (639, 26184), (652, 26163), (657, 26157), (718, 26046), (731, 25998), (738, 25968), (740, 25962), (743, 25950), (761, 25911),

Gene: Phelipe_33 Start: 26296, Stop: 25130, Start Num: 116

Candidate Starts for Phelipe_33:

(Start: 116 @26296 has 3 MA's), (135, 26269), (Start: 152 @26251 has 119 MA's), (Start: 195 @26182 has 8 MA's), (200, 26173), (Start: 218 @26128 has 6 MA's), (346, 25909), (350, 25900), (393, 25864), (418, 25822), (423, 25810), (424, 25807), (464, 25729), (540, 25594), (551, 25576), (609, 25489), (622, 25462), (629, 25447), (639, 25429), (718, 25291), (731, 25243), (738, 25213), (740, 25207), (743, 25195), (761, 25156),

Gene: PhesterPhotato_44 Start: 32894, Stop: 34012, Start Num: 163

Candidate Starts for PhesterPhotato_44:

(Start: 163 @32894 has 283 MA's), (168, 32903), (253, 33065), (346, 33230), (371, 33266), (382, 33275), (468, 33449), (491, 33488), (504, 33509), (512, 33521), (513, 33524), (519, 33536), (539, 33575), (543, 33581), (560, 33602), (590, 33638), (592, 33641), (609, 33677), (613, 33683), (620, 33698), (675, 33782), (682, 33797), (708, 33815), (727, 33884), (730, 33893), (740, 33932), (745, 33950), (755, 33971), (762, 33986), (766, 33995), (768, 33998),

Gene: Philus_43 Start: 31979, Stop: 33097, Start Num: 163

Candidate Starts for Philus_43:

(Start: 163 @31979 has 283 MA's), (232, 32117), (253, 32150), (284, 32198), (346, 32315), (371, 32351), (382, 32360), (438, 32465), (468, 32534), (504, 32594), (512, 32606), (513, 32609), (519, 32621), (529, 32636), (539, 32660), (543, 32666), (560, 32687), (590, 32723), (592, 32726), (609, 32762), (613, 32768), (618, 32780), (620, 32783), (675, 32867), (682, 32882), (717, 32924), (727, 32969), (730, 32978), (740, 33017), (745, 33035), (755, 33056), (762, 33071), (766, 33080), (768, 33083),

Gene: PhishRPhriends_34 Start: 25821, Stop: 24682, Start Num: 152

Candidate Starts for PhishRPhriends_34:

(Start: 103 @25884 has 3 MA's), (Start: 152 @25821 has 119 MA's), (Start: 188 @25767 has 14 MA's), (Start: 218 @25698 has 6 MA's), (346, 25479), (350, 25470), (393, 25434), (424, 25377), (464, 25299), (486, 25266), (540, 25164), (551, 25146), (559, 25134), (609, 25059), (613, 25053), (622, 25032), (629, 25017), (639, 24999), (655, 24975), (730, 24816), (731, 24813), (738, 24783), (740, 24777), (743, 24765), (761, 24726),

Gene: Phistory_51 Start: 33096, Stop: 34193, Start Num: 163

Candidate Starts for Phistory_51:

(94, 33009), (115, 33045), (Start: 163 @33096 has 283 MA's), (190, 33147), (232, 33225), (250, 33252), (284, 33297), (303, 33339), (429, 33531), (439, 33549), (450, 33576), (491, 33648), (504, 33669), (508, 33675), (519, 33696), (560, 33768), (613, 33852), (692, 33975), (720, 34026), (723, 34035), (729, 34062), (768, 34170), (776, 34185),

Gene: PhluffyCoco_36 Start: 23912, Stop: 22719, Start Num: 147

Candidate Starts for PhluffyCoco_36:

(Start: 147 @23912 has 63 MA's), (379, 23483), (408, 23426), (555, 23174), (624, 23048), (630, 23036), (722, 22877), (743, 22796), (766, 22748),

Gene: Phoebe_36 Start: 26782, Stop: 25637, Start Num: 152

Candidate Starts for Phoebe_36:

(Start: 152 @26782 has 119 MA's), (Start: 180 @26743 has 10 MA's), (205, 26695), (Start: 218 @26659 has 6 MA's), (243, 26614), (337, 26458), (350, 26431), (393, 26395), (424, 26338), (464, 26260), (477, 26236), (503, 26197), (540, 26125), (546, 26113), (551, 26107), (559, 26095), (609, 26020), (613, 26014), (622, 25993), (629, 25978), (639, 25960), (655, 25936), (718, 25822), (730, 25777), (731, 25774), (734, 25765), (738, 25744), (740, 25738), (743, 25726), (761, 25687),

Gene: Phoebus_84 Start: 54332, Stop: 55561, Start Num: 85

Candidate Starts for Phoebus_84:

(Start: 85 @54332 has 29 MA's), (Start: 91 @54350 has 1 MA's), (Start: 112 @54389 has 1 MA's), (Start: 254 @54626 has 1 MA's), (318, 54734), (418, 54854), (419, 54857), (423, 54866), (429, 54881), (447, 54920), (491, 54998), (556, 55103), (562, 55115), (575, 55118), (582, 55127), (607, 55178), (609, 55181), (619, 55199), (672, 55295), (709, 55352), (737, 55472), (738, 55475), (745, 55499), (757, 55523), (759, 55526),

Gene: PhorbesPhlower_33 Start: 25600, Stop: 26682, Start Num: 159

Candidate Starts for PhorbesPhlower_33:

(Start: 86 @25489 has 6 MA's), (Start: 159 @25600 has 52 MA's), (190, 25654), (261, 25774), (346, 25921), (466, 26119), (506, 26185), (519, 26209), (723, 26539), (729, 26566), (766, 26671), (768, 26674),

Gene: Phrank15_39 Start: 27192, Stop: 26020, Start Num: 163

Candidate Starts for Phrank15_39:

(111, 27249), (Start: 163 @27192 has 283 MA's), (190, 27141), (289, 26973), (299, 26955), (388, 26823), (424, 26745), (429, 26733), (433, 26727), (465, 26658), (470, 26649), (506, 26589), (557, 26499), (620, 26394), (630, 26373), (645, 26346), (717, 26223), (723, 26199), (726, 26184), (770, 26064), (783, 26037),

Gene: Phranny_36 Start: 26629, Stop: 25490, Start Num: 152

Candidate Starts for Phranny_36:

(Start: 103 @26692 has 3 MA's), (Start: 152 @26629 has 119 MA's), (Start: 188 @26575 has 14 MA's), (Start: 218 @26506 has 6 MA's), (346, 26287), (350, 26278), (393, 26242), (424, 26185), (464, 26107), (486, 26074), (540, 25972), (551, 25954), (559, 25942), (609, 25867), (613, 25861), (622, 25840), (629, 25825), (639, 25807), (655, 25783), (730, 25624), (731, 25621), (738, 25591), (740, 25585), (743, 25573), (761, 25534),

Gene: Phrappuccino_38 Start: 20588, Stop: 21727, Start Num: 163

Candidate Starts for Phrappuccino_38:

(Start: 163 @20588 has 283 MA's), (192, 20642), (Start: 222 @20714 has 1 MA's), (371, 20966), (382, 20975), (423, 21065), (429, 21080), (465, 21158), (506, 21227), (513, 21239), (556, 21311), (596, 21362), (598, 21365), (613, 21401), (646, 21452), (675, 21500), (678, 21506), (682, 21515), (726, 21596), (754, 21689), (761, 21701), (766, 21713),

Gene: PhriskyACE_35 Start: 28658, Stop: 29575, Start Num: 279

Candidate Starts for PhriskyACE_35:

(Start: 275 @28652 has 15 MA's), (Start: 279 @28658 has 58 MA's), (390, 28841), (393, 28847), (396, 28853), (491, 29039), (535, 29102), (537, 29108), (546, 29123), (612, 29222), (615, 29228), (621, 29240), (662, 29315), (675, 29339), (676, 29342), (711, 29378), (714, 29384), (716, 29396), (730, 29453), (742, 29498),

Gene: PhriskyACE_36 Start: 30974, Stop: 29805, Start Num: 147

Candidate Starts for PhriskyACE_36:

(Start: 147 @30974 has 63 MA's), (224, 30812), (317, 30650), (328, 30632), (364, 30566), (377, 30548), (379, 30545), (387, 30533), (408, 30488), (423, 30449), (429, 30440), (438, 30419), (439, 30416), (512, 30332), (513, 30329), (543, 30272), (629, 30137), (646, 30101), (662, 30071), (714, 30014), (716, 30002), (719, 29987), (743, 29897), (748, 29882), (761, 29861), (778, 29822), (784, 29813),

Gene: Piatt_41 Start: 32792, Stop: 33880, Start Num: 163

Candidate Starts for Piatt_41:

(Start: 163 @32792 has 283 MA's), (Start: 218 @32894 has 6 MA's), (231, 32918), (253, 32954), (337, 33092), (429, 33230), (465, 33299), (466, 33302), (556, 33452), (618, 33557), (715, 33692),

Gene: Pickett_32 Start: 24860, Stop: 25942, Start Num: 159

Candidate Starts for Pickett_32:

(Start: 159 @24860 has 52 MA's), (190, 24914), (261, 25034), (438, 25319), (466, 25379), (506, 25445), (519, 25469), (723, 25799), (729, 25826), (766, 25931),

Gene: Pigu_32 Start: 23069, Stop: 24265, Start Num: 110

Candidate Starts for Pigu_32:

(26, 22745), (28, 22754), (29, 22775), (49, 22910), (75, 22994), (Start: 110 @23069 has 1 MA's), (Start: 149 @23120 has 1 MA's), (170, 23153), (202, 23216), (235, 23300), (Start: 279 @23372 has 58 MA's), (290, 23396), (304, 23423), (314, 23444), (382, 23507), (416, 23555), (422, 23570), (439, 23606), (460, 23633), (546, 23786), (632, 23921), (699, 24041), (720, 24098), (738, 24170), (762, 24221),

Gene: Pimento_39 Start: 30980, Stop: 29709, Start Num: 147

Candidate Starts for Pimento_39:

(128, 31004), (Start: 147 @30980 has 63 MA's), (160, 30965), (206, 30863), (Start: 222 @30821 has 1 MA's), (230, 30809), (Start: 275 @30734 has 15 MA's), (312, 30659), (317, 30650), (328, 30632), (387, 30533), (390, 30530), (429, 30440), (504, 30344), (511, 30335), (557, 30239), (573, 30215), (646, 30071), (716, 29930), (727, 29885), (741, 29834), (743, 29825), (748, 29810), (757, 29798), (762, 29786), (786, 29747),

Gene: Pipp_33 Start: 27701, Stop: 28627, Start Num: 275

Candidate Starts for Pipp_33:

(Start: 275 @27701 has 15 MA's), (Start: 279 @27707 has 58 MA's), (346, 27824), (348, 27827), (390, 27890), (393, 27896), (396, 27902), (438, 28004), (491, 28088), (531, 28142), (533, 28145), (535, 28151), (546, 28172), (612, 28271), (621, 28289), (662, 28364), (676, 28391), (711, 28427), (730, 28502),

Gene: Pippy_38 Start: 29161, Stop: 30279, Start Num: 163

Candidate Starts for Pippy_38:

(Start: 163 @29161 has 283 MA's), (168, 29170), (253, 29332), (346, 29497), (371, 29533), (382, 29542), (424, 29623), (438, 29647), (468, 29716), (491, 29755), (501, 29773), (504, 29776), (512, 29788), (513, 29791), (519, 29803), (529, 29818), (539, 29842), (543, 29848), (560, 29869), (590, 29905), (592, 29908), (609, 29944), (613, 29950), (620, 29965), (625, 29980), (675, 30049), (682, 30064), (717, 30106), (727, 30151), (730, 30160), (740, 30199), (745, 30217), (755, 30238), (762, 30253), (766, 30262), (768, 30265),

Gene: Piro94_34 Start: 26723, Stop: 25590, Start Num: 152

Candidate Starts for Piro94_34:

(Start: 139 @26741 has 1 MA's), (Start: 152 @26723 has 119 MA's), (Start: 180 @26684 has 10 MA's), (Start: 188 @26669 has 14 MA's), (Start: 218 @26600 has 6 MA's), (243, 26555), (Start: 279 @26501 has 58 MA's), (348, 26378), (393, 26336), (416, 26300), (423, 26282), (477, 26177), (540, 26066), (551, 26048), (559, 26036), (609, 25961), (622, 25934), (629, 25919), (639, 25901), (657, 25874), (718, 25763), (730, 25718), (731, 25715), (738, 25685), (740, 25679), (743, 25667), (761, 25628),

Gene: Pistachio_34 Start: 25844, Stop: 24717, Start Num: 152

Candidate Starts for Pistachio_34:

(Start: 152 @25844 has 119 MA's), (205, 25757), (Start: 218 @25721 has 6 MA's), (243, 25676), (337, 25520), (343, 25508), (346, 25502), (393, 25457), (423, 25403), (424, 25400), (464, 25322), (551, 25169), (559, 25157), (592, 25118), (609, 25082), (613, 25076), (622, 25055), (629, 25040), (639, 25022), (657, 24995), (718, 24884), (731, 24836), (738, 24806), (740, 24800), (743, 24788), (761, 24749),

Gene: Pitbull_33 Start: 24636, Stop: 23518, Start Num: 146

Candidate Starts for Pitbull_33:

(124, 24666), (144, 24639), (Start: 146 @24636 has 1 MA's), (Start: 165 @24612 has 1 MA's), (248, 24441), (262, 24414), (328, 24306), (341, 24285), (346, 24276), (364, 24237), (377, 24219), (385, 24207), (387, 24204), (398, 24183), (422, 24123), (435, 24099), (501, 24033), (511, 24018), (533, 23976), (587, 23898), (611, 23850), (618, 23835), (627, 23814), (630, 23808), (643, 23787), (738, 23601), (761, 23547),

Gene: Pokerus_40 Start: 32516, Stop: 33604, Start Num: 163

Candidate Starts for Pokerus_40:

(Start: 163 @32516 has 283 MA's), (Start: 218 @32618 has 6 MA's), (231, 32642), (253, 32678), (337, 32816), (371, 32870), (429, 32954), (465, 33023), (466, 33026), (556, 33176), (618, 33281), (675, 33368), (715, 33416), (757, 33560),

Gene: Polka_36 Start: 23869, Stop: 22682, Start Num: 147

Candidate Starts for Polka_36:

(87, 23959), (Start: 147 @23869 has 63 MA's), (379, 23440), (624, 23005), (714, 22870),

Gene: Pollux_37 Start: 30910, Stop: 31827, Start Num: 279

Candidate Starts for Pollux_37:

(Start: 275 @30904 has 15 MA's), (Start: 279 @30910 has 58 MA's), (Start: 298 @30934 has 1 MA's), (348, 31030), (393, 31099), (396, 31105), (447, 31228), (491, 31291), (531, 31345), (535, 31354), (546, 31375), (553, 31384), (577, 31414), (597, 31438), (649, 31546), (662, 31567), (676, 31594),

Gene: Pollux_38 Start: 32103, Stop: 33209, Start Num: 163

Candidate Starts for Pollux_38:

(119, 32046), (Start: 163 @32103 has 283 MA's), (190, 32154), (250, 32259), (281, 32298), (429, 32538), (465, 32607), (466, 32610), (486, 32640), (513, 32691), (519, 32703), (654, 32931), (701, 32991), (723, 33066), (730, 33096), (766, 33198),

Gene: Polly_36 Start: 30006, Stop: 31088, Start Num: 159

Candidate Starts for Polly_36:

(Start: 86 @29895 has 6 MA's), (Start: 159 @30006 has 52 MA's), (190, 30060), (261, 30180), (423, 30435), (438, 30465), (466, 30525), (506, 30591), (519, 30615), (723, 30945), (729, 30972), (766, 31077),

Gene: Polymorphads_33 Start: 26248, Stop: 25127, Start Num: 152

Candidate Starts for Polymorphads_33:

(Start: 116 @26293 has 3 MA's), (135, 26266), (Start: 152 @26248 has 119 MA's), (Start: 195 @26179 has 8 MA's), (Start: 218 @26125 has 6 MA's), (346, 25906), (350, 25897), (393, 25861), (418, 25819), (423, 25807), (424, 25804), (464, 25726), (540, 25591), (551, 25573), (609, 25486), (613, 25480), (622, 25459), (629, 25444), (639, 25426), (718, 25288), (731, 25240), (738, 25210), (740, 25204), (743, 25192), (761, 25153),

Gene: Pomar16_37 Start: 26461, Stop: 25391, Start Num: 188

Candidate Starts for Pomar16_37:

(Start: 152 @26515 has 119 MA's), (Start: 188 @26461 has 14 MA's), (Start: 218 @26392 has 6 MA's), (337, 26191), (350, 26164), (393, 26128), (424, 26071), (438, 26044), (464, 25993), (486, 25960), (491, 25948), (503, 25930), (551, 25840), (559, 25828), (592, 25789), (609, 25753), (613, 25747), (622, 25726), (629, 25711), (639, 25693), (657, 25666), (718, 25555), (731, 25507), (732, 25504), (738, 25477), (740, 25471), (743, 25459), (761, 25420),

Gene: Popper_34 Start: 26204, Stop: 27124, Start Num: 279

Candidate Starts for Popper_34:

(Start: 279 @26204 has 58 MA's), (301, 26243), (365, 26360), (380, 26378), (387, 26390), (451, 26537), (490, 26585), (531, 26645), (535, 26654), (537, 26660), (558, 26693), (595, 26735), (600, 26747), (618, 26786), (720, 26966), (726, 26990), (730, 27005), (732, 27011), (761, 27092), (762, 27095),

Gene: Porcelain_86 Start: 50735, Stop: 52009, Start Num: 69

Candidate Starts for Porcelain_86:

(54, 50678), (Start: 65 @50720 has 1 MA's), (Start: 69 @50735 has 10 MA's), (72, 50738), (Start: 91 @50783 has 1 MA's), (Start: 112 @50822 has 1 MA's), (342, 51203), (418, 51287), (423, 51299), (424, 51302), (491, 51431), (575, 51551), (609, 51614), (619, 51632), (631, 51656), (672, 51728), (737, 51905), (738, 51908), (740, 51914), (745, 51932), (752, 51947), (757, 51956), (759, 51959), (779, 52004),

Gene: Posh_42 Start: 32975, Stop: 34057, Start Num: 159

Candidate Starts for Posh_42:

(Start: 86 @32864 has 6 MA's), (Start: 159 @32975 has 52 MA's), (190, 33029), (261, 33149), (466, 33494), (519, 33584), (590, 33689), (723, 33914), (729, 33941), (766, 34046),

Gene: PotatoSplit_37 Start: 26790, Stop: 25645, Start Num: 152

Candidate Starts for PotatoSplit_37:

(Start: 152 @26790 has 119 MA's), (Start: 180 @26751 has 10 MA's), (205, 26703), (Start: 218 @26667 has 6 MA's), (243, 26622), (337, 26466), (350, 26439), (393, 26403), (424, 26346), (464, 26268), (477, 26244), (503, 26205), (540, 26133), (546, 26121), (551, 26115), (559, 26103), (609, 26028), (613, 26022), (622, 26001), (629, 25986), (639, 25968), (655, 25944), (718, 25830), (730, 25785), (731, 25782), (734, 25773), (738, 25752), (740, 25746), (743, 25734), (761, 25695),

Gene: Pound_82 Start: 54468, Stop: 55697, Start Num: 85

Candidate Starts for Pound_82:

(Start: 85 @54468 has 29 MA's), (Start: 91 @54486 has 1 MA's), (Start: 112 @54525 has 1 MA's), (Start: 254 @54762 has 1 MA's), (318, 54870), (418, 54990), (419, 54993), (423, 55002), (429, 55017), (447, 55056), (491, 55134), (556, 55239), (562, 55251), (575, 55254), (582, 55263), (607, 55314), (609, 55317), (619, 55335), (672, 55431), (709, 55488), (737, 55608), (738, 55611), (745, 55635), (757, 55659), (759, 55662),

Gene: Poushou_32 Start: 29943, Stop: 28732, Start Num: 142

Candidate Starts for Poushou_32:

(Start: 142 @29943 has 4 MA's), (231, 29769), (304, 29628), (395, 29469), (467, 29319), (517, 29229), (663, 28965), (685, 28929), (688, 28923), (756, 28758), (763, 28743), (765, 28740),

Gene: Power_33 Start: 26423, Stop: 25227, Start Num: 156

Candidate Starts for Power_33:

(129, 26453), (Start: 156 @26423 has 17 MA's), (Start: 218 @26303 has 6 MA's), (243, 26258), (337, 26102), (350, 26075), (393, 26039), (418, 25997), (424, 25982), (464, 25904), (486, 25871), (491, 25859), (503, 25841), (551, 25751), (559, 25739), (609, 25664), (613, 25658), (622, 25637), (629, 25622), (639, 25604), (657, 25577), (718, 25466), (731, 25418), (732, 25415), (738, 25388), (740, 25382), (743, 25370), (761, 25331), (789, 25277),

Gene: Powerball_37 Start: 30563, Stop: 29394, Start Num: 147

Candidate Starts for Powerball_37:

(Start: 147 @30563 has 63 MA's), (Start: 275 @30320 has 15 MA's), (338, 30203), (366, 30149), (370, 30143), (379, 30131), (387, 30119), (429, 30026), (432, 30020), (443, 29990), (511, 29921), (512, 29918), (529, 29888), (558, 29837), (609, 29765), (714, 29603), (716, 29591), (738, 29504), (741, 29495), (761, 29450), (778, 29411),

Gene: Prithvi_42 Start: 32665, Stop: 33753, Start Num: 163

Candidate Starts for Prithvi_42:

(73, 32518), (Start: 163 @32665 has 283 MA's), (Start: 218 @32767 has 6 MA's), (231, 32791), (253, 32827), (337, 32965), (371, 33019), (429, 33103), (465, 33172), (466, 33175), (556, 33325), (618, 33430), (675, 33517), (715, 33565), (757, 33709),

Gene: Pucara_31 Start: 24120, Stop: 25040, Start Num: 279

Candidate Starts for Pucara_31:

(Start: 279 @24120 has 58 MA's), (365, 24276), (380, 24294), (387, 24306), (451, 24453), (464, 24462), (490, 24501), (535, 24570), (537, 24576), (558, 24609), (595, 24651), (720, 24882), (726, 24906), (732, 24927), (761, 25008), (762, 25011),

Gene: Pukovnik_35 Start: 27554, Stop: 26421, Start Num: 140

Candidate Starts for Pukovnik_35:

(Start: 140 @27554 has 3 MA's), (Start: 218 @27419 has 6 MA's), (243, 27374), (246, 27368), (274, 27329), (337, 27218), (350, 27191), (393, 27155), (418, 27113), (423, 27101), (424, 27098), (551, 26867), (559, 26855), (609, 26780), (613, 26774), (622, 26753), (629, 26738), (639, 26720), (668,

26669), (718, 26582), (731, 26534), (738, 26504), (740, 26498), (743, 26486), (752, 26465), (761, 26447),

Gene: Puppy_34 Start: 25914, Stop: 24787, Start Num: 152

Candidate Starts for Puppy_34:

(Start: 152 @25914 has 119 MA's), (205, 25827), (Start: 218 @25791 has 6 MA's), (243, 25746), (337, 25590), (343, 25578), (346, 25572), (393, 25527), (423, 25473), (424, 25470), (436, 25446), (540, 25257), (551, 25239), (559, 25227), (592, 25188), (609, 25152), (613, 25146), (622, 25125), (629, 25110), (639, 25092), (718, 24954), (731, 24906), (738, 24876), (740, 24870), (743, 24858), (761, 24819),

Gene: PurpleHaze_35 Start: 26642, Stop: 25497, Start Num: 152

Candidate Starts for PurpleHaze_35:

(Start: 103 @26705 has 3 MA's), (Start: 152 @26642 has 119 MA's), (Start: 188 @26588 has 14 MA's), (Start: 218 @26519 has 6 MA's), (346, 26300), (350, 26291), (393, 26255), (424, 26198), (464, 26120), (486, 26087), (540, 25985), (551, 25967), (559, 25955), (609, 25880), (613, 25874), (622, 25853), (629, 25838), (639, 25820), (655, 25796), (730, 25637), (731, 25634), (738, 25604), (740, 25598), (743, 25586), (761, 25547),

Gene: Pytheas_39 Start: 31310, Stop: 32392, Start Num: 159

Candidate Starts for Pytheas_39:

(Start: 86 @31199 has 6 MA's), (Start: 159 @31310 has 52 MA's), (190, 31364), (261, 31484), (438, 31769), (466, 31829), (506, 31895), (519, 31919), (723, 32249), (729, 32276), (766, 32381),

Gene: Pytheas_34 Start: 28853, Stop: 29788, Start Num: 275

Candidate Starts for Pytheas_34:

(246, 28799), (Start: 275 @28853 has 15 MA's), (348, 28985), (410, 29102), (438, 29162), (439, 29165), (448, 29186), (530, 29297), (535, 29309), (595, 29390), (620, 29444), (622, 29450), (630, 29468), (662, 29528), (675, 29552), (676, 29555), (711, 29591), (714, 29597), (733, 29675), (749, 29735),

Gene: QueenB2_34 Start: 26488, Stop: 25370, Start Num: 152

Candidate Starts for QueenB2_34:

(Start: 103 @26551 has 3 MA's), (Start: 152 @26488 has 119 MA's), (Start: 188 @26434 has 14 MA's), (Start: 218 @26365 has 6 MA's), (243, 26320), (337, 26164), (339, 26161), (350, 26137), (393, 26101), (424, 26044), (464, 25966), (486, 25933), (491, 25921), (503, 25903), (551, 25813), (559, 25801), (613, 25720), (622, 25699), (629, 25684), (639, 25666), (657, 25639), (718, 25528), (731, 25480), (732, 25477), (738, 25450), (740, 25444), (743, 25432), (761, 25393),

Gene: QueenBeesly_34 Start: 26370, Stop: 25255, Start Num: 156

Candidate Starts for QueenBeesly_34:

(129, 26400), (Start: 156 @26370 has 17 MA's), (Start: 218 @26250 has 6 MA's), (243, 26205), (337, 26049), (350, 26022), (393, 25986), (418, 25944), (424, 25929), (486, 25818), (491, 25806), (503, 25788), (551, 25698), (559, 25686), (609, 25611), (613, 25605), (622, 25584), (629, 25569), (639, 25551), (657, 25524), (659, 25515), (718, 25413), (730, 25368), (731, 25365), (732, 25362), (738, 25335), (740, 25329), (743, 25317), (761, 25278),

Gene: QuincyRose_40 Start: 32781, Stop: 33869, Start Num: 163

Candidate Starts for QuincyRose_40:

(Start: 163 @32781 has 283 MA's), (Start: 218 @32883 has 6 MA's), (231, 32907), (253, 32943), (337, 33081), (371, 33135), (429, 33219), (465, 33288), (466, 33291), (556, 33441), (618, 33546), (675, 33633), (701, 33663), (715, 33681), (757, 33825),

Gene: QuinnAvery_38 Start: 27407, Stop: 28369, Start Num: 254

Candidate Starts for QuinnAvery_38:

(Start: 254 @27407 has 1 MA's), (Start: 279 @27449 has 58 MA's), (365, 27605), (380, 27623), (387, 27635), (451, 27782), (464, 27791), (490, 27830), (530, 27887), (535, 27899), (537, 27905), (558, 27938), (579, 27962), (595, 27980), (600, 27992), (720, 28211), (726, 28235), (730, 28250), (732, 28256), (761, 28337), (762, 28340),

Gene: Quokka_33 Start: 25599, Stop: 24475, Start Num: 152

Candidate Starts for Quokka_33:

(Start: 152 @25599 has 119 MA's), (200, 25521), (Start: 218 @25476 has 6 MA's), (243, 25431), (284, 25371), (350, 25248), (393, 25212), (423, 25158), (424, 25155), (491, 25032), (493, 25029), (503, 25014), (546, 24930), (551, 24924), (582, 24891), (590, 24876), (609, 24837), (622, 24810), (629, 24795), (639, 24777), (657, 24750), (718, 24639), (731, 24591), (732, 24588), (734, 24582), (738, 24561), (740, 24555), (743, 24543), (761, 24504),

Gene: REQ2_38 Start: 31529, Stop: 30324, Start Num: 156

Candidate Starts for REQ2_38:

(Start: 151 @31535 has 3 MA's), (Start: 156 @31529 has 17 MA's), (199, 31454), (226, 31382), (285, 31292), (323, 31220), (350, 31178), (366, 31139), (404, 31070), (408, 31061), (410, 31052), (422, 31025), (432, 31007), (441, 30986), (465, 30950), (533, 30833), (578, 30776), (609, 30716), (613, 30710), (620, 30695), (660, 30614), (723, 30485), (734, 30443), (773, 30353), (782, 30335),

Gene: REQ3_01 Start: 1320, Stop: 82, Start Num: 149

Candidate Starts for REQ3_01:

(98, 1395), (Start: 149 @1320 has 1 MA's), (206, 1203), (233, 1137), (262, 1083), (269, 1074), (273, 1068), (306, 1002), (352, 927), (387, 861), (403, 831), (408, 816), (410, 807), (429, 765), (436, 747), (455, 702), (456, 699), (465, 669), (477, 642), (485, 633), (509, 591), (511, 588), (529, 555), (566, 492), (585, 465), (609, 423), (613, 417), (620, 402), (622, 396), (633, 378), (643, 360), (646, 357), (656, 342), (666, 315), (679, 294), (719, 240), (736, 171), (738, 165), (762, 108), (768, 96),

Gene: Rabbitrun_10 Start: 3920, Stop: 2817, Start Num: 174

Candidate Starts for Rabbitrun_10:

(Start: 174 @3920 has 12 MA's), (183, 3908), (204, 3854), (211, 3845), (213, 3839), (220, 3815), (306, 3662), (353, 3590), (384, 3548), (397, 3527), (402, 3515), (412, 3482), (461, 3392), (472, 3371), (520, 3284), (542, 3257), (580, 3203), (641, 3083), (696, 2987), (717, 2972), (726, 2933), (736, 2891),

Gene: RadFad_40 Start: 27831, Stop: 26659, Start Num: 163

Candidate Starts for RadFad_40:

(Start: 163 @27831 has 283 MA's), (190, 27780), (253, 27666), (289, 27612), (299, 27594), (339, 27522), (361, 27480), (388, 27462), (424, 27384), (429, 27372), (465, 27297), (470, 27288), (506, 27228), (557, 27138), (620, 27033), (630, 27012), (641, 26988), (645, 26985), (689, 26916), (717, 26862), (723, 26838), (726, 26823), (770, 26703), (783, 26676),

Gene: RadFad_36 Start: 24572, Stop: 25492, Start Num: 279

Candidate Starts for RadFad_36:

(208, 24443), (217, 24470), (Start: 279 @24572 has 58 MA's), (342, 24686), (380, 24746), (387, 24758), (410, 24815), (451, 24905), (490, 24953), (535, 25022), (537, 25028), (558, 25061), (579, 25085), (726, 25358), (730, 25373), (732, 25379),

Gene: Ramen_41 Start: 32481, Stop: 33569, Start Num: 163

Candidate Starts for Ramen_41:

(Start: 163 @32481 has 283 MA's), (Start: 218 @32583 has 6 MA's), (231, 32607), (253, 32643), (337, 32781), (371, 32835), (429, 32919), (465, 32988), (466, 32991), (556, 33141), (603, 33219), (618,

33246), (675, 33333), (715, 33381),

Gene: Raphaella_36 Start: 24506, Stop: 25423, Start Num: 279

Candidate Starts for Raphaella_36:

(208, 24377), (211, 24383), (Start: 279 @24506 has 58 MA's), (365, 24662), (380, 24677), (387, 24689), (451, 24836), (464, 24845), (490, 24884), (521, 24929), (535, 24953), (537, 24959), (558, 24992), (595, 25034), (599, 25043), (618, 25085), (662, 25169), (726, 25289), (730, 25304),

Gene: Raphaella_40 Start: 27703, Stop: 26564, Start Num: 163

Candidate Starts for Raphaella_40:

(Start: 163 @27703 has 283 MA's), (190, 27652), (289, 27484), (299, 27466), (388, 27334), (424, 27256), (429, 27244), (433, 27238), (465, 27169), (470, 27160), (506, 27100), (557, 27010), (620, 26905), (630, 26884), (645, 26857), (717, 26734), (723, 26710), (726, 26695), (746, 26620), (761, 26590),

Gene: Rapunzel97_41 Start: 32477, Stop: 33565, Start Num: 163

Candidate Starts for Rapunzel97_41:

(Start: 163 @32477 has 283 MA's), (190, 32528), (Start: 218 @32579 has 6 MA's), (231, 32603), (253, 32639), (337, 32777), (371, 32831), (429, 32915), (465, 32984), (466, 32987), (556, 33137), (603, 33215), (618, 33242), (675, 33329), (715, 33377),

Gene: Raqqa_32 Start: 24809, Stop: 23658, Start Num: 177

Candidate Starts for Raqqa_32:

(Start: 163 @24836 has 283 MA's), (177, 24809), (190, 24785), (299, 24599), (350, 24503), (388, 24467), (424, 24389), (465, 24302), (470, 24293), (506, 24233), (557, 24143), (620, 24038), (622, 24032), (682, 23924), (717, 23873), (723, 23849), (726, 23834), (746, 23759), (768, 23714),

Gene: Rattail_36 Start: 23998, Stop: 22805, Start Num: 147

Candidate Starts for Rattail_36:

(Start: 147 @23998 has 63 MA's), (379, 23569), (408, 23512), (555, 23260), (624, 23134), (630, 23122), (722, 22963), (743, 22882), (766, 22834),

Gene: RavenCo17_41 Start: 31793, Stop: 32899, Start Num: 163

Candidate Starts for RavenCo17_41:

(119, 31736), (Start: 163 @31793 has 283 MA's), (190, 31844), (250, 31949), (281, 31988), (429, 32228), (465, 32297), (466, 32300), (486, 32330), (513, 32381), (519, 32393), (654, 32621), (701, 32681), (703, 32684), (723, 32756), (730, 32786), (766, 32888),

Gene: Reba_36 Start: 26302, Stop: 25163, Start Num: 152

Candidate Starts for Reba_36:

(Start: 103 @26365 has 3 MA's), (Start: 152 @26302 has 119 MA's), (Start: 188 @26248 has 14 MA's), (Start: 218 @26179 has 6 MA's), (346, 25960), (350, 25951), (393, 25915), (424, 25858), (464, 25780), (486, 25747), (540, 25645), (551, 25627), (559, 25615), (609, 25540), (613, 25534), (622, 25513), (629, 25498), (639, 25480), (655, 25456), (730, 25297), (731, 25294), (738, 25264), (740, 25258), (743, 25246), (761, 25207),

Gene: RedFox_36 Start: 23911, Stop: 22718, Start Num: 147

Candidate Starts for RedFox_36:

(Start: 147 @23911 has 63 MA's), (379, 23482), (408, 23425), (417, 23401), (555, 23173), (624, 23047), (630, 23035), (640, 23014), (722, 22876), (743, 22795), (766, 22747),

Gene: Redno2_78 Start: 49946, Stop: 51175, Start Num: 85

Candidate Starts for Redno2_78:

(Start: 85 @49946 has 29 MA's), (Start: 91 @49964 has 1 MA's), (Start: 112 @50003 has 1 MA's), (Start: 254 @50240 has 1 MA's), (318, 50348), (418, 50468), (419, 50471), (423, 50480), (429, 50495), (447, 50534), (491, 50612), (556, 50717), (562, 50729), (575, 50732), (582, 50741), (607, 50792), (609, 50795), (619, 50813), (672, 50909), (709, 50966), (737, 51086), (738, 51089), (745, 51113), (757, 51137), (759, 51140),

Gene: Renaud18_46 Start: 32683, Stop: 33786, Start Num: 163

Candidate Starts for Renaud18_46:

(Start: 163 @32683 has 283 MA's), (190, 32731), (232, 32812), (247, 32839), (371, 33052), (396, 33076), (424, 33124), (465, 33205), (506, 33274), (512, 33283), (529, 33313), (539, 33337), (556, 33358), (603, 33436), (613, 33451), (654, 33511), (675, 33550), (682, 33565), (705, 33589), (717, 33616), (723, 33640), (727, 33661), (730, 33670), (742, 33715), (745, 33727),

Gene: Renna12_35 Start: 23953, Stop: 22760, Start Num: 147

Candidate Starts for Renna12_35:

(Start: 147 @23953 has 63 MA's), (Start: 279 @23710 has 58 MA's), (379, 23524), (408, 23467), (417, 23443), (555, 23215), (624, 23089), (630, 23077), (766, 22789),

Gene: Retro23_35 Start: 26753, Stop: 25632, Start Num: 152

Candidate Starts for Retro23_35:

(Start: 103 @26816 has 3 MA's), (Start: 152 @26753 has 119 MA's), (Start: 188 @26699 has 14 MA's), (Start: 218 @26630 has 6 MA's), (243, 26585), (337, 26429), (393, 26366), (429, 26297), (448, 26255), (464, 26231), (503, 26168), (551, 26078), (559, 26066), (609, 25991), (613, 25985), (622, 25964), (629, 25949), (639, 25931), (657, 25904), (718, 25793), (730, 25748), (731, 25745), (732, 25742), (738, 25715), (740, 25709), (743, 25697), (761, 25658),

Gene: Rialto_46 Start: 34385, Stop: 35503, Start Num: 163

Candidate Starts for Rialto_46:

(Start: 163 @34385 has 283 MA's), (253, 34556), (346, 34721), (371, 34757), (382, 34766), (438, 34871), (468, 34940), (491, 34979), (504, 35000), (512, 35012), (513, 35015), (519, 35027), (539, 35066), (543, 35072), (560, 35093), (590, 35129), (592, 35132), (609, 35168), (613, 35174), (620, 35189), (625, 35204), (675, 35273), (682, 35288), (727, 35375), (730, 35384), (740, 35423), (745, 35441), (755, 35462), (762, 35477), (766, 35486), (768, 35489),

Gene: Richie_40 Start: 27784, Stop: 26645, Start Num: 163

Candidate Starts for Richie_40:

(Start: 163 @27784 has 283 MA's), (190, 27733), (289, 27565), (299, 27547), (371, 27424), (388, 27415), (424, 27337), (429, 27325), (433, 27319), (465, 27250), (470, 27241), (506, 27181), (557, 27091), (620, 26986), (630, 26965), (645, 26938), (717, 26815), (723, 26791), (726, 26776), (746, 26701), (761, 26671),

Gene: Richie_36 Start: 24587, Stop: 25504, Start Num: 279

Candidate Starts for Richie_36:

(208, 24458), (211, 24464), (Start: 279 @24587 has 58 MA's), (380, 24758), (387, 24770), (410, 24827), (451, 24917), (464, 24926), (490, 24965), (521, 25010), (535, 25034), (537, 25040), (558, 25073), (595, 25115), (599, 25124), (618, 25166), (662, 25250), (726, 25370), (730, 25385),

Gene: Richo_43 Start: 33014, Stop: 34105, Start Num: 163

Candidate Starts for Richo_43:

(11, 32333), (21, 32477), (33, 32681), (48, 32780), (50, 32789), (56, 32816), (71, 32864), (Start: 163 @33014 has 283 MA's), (190, 33065), (231, 33140), (253, 33176), (319, 33290), (337, 33314), (371, 33368), (429, 33452), (444, 33485), (465, 33521), (466, 33524), (491, 33566), (539, 33653), (556, 33674), (618, 33782), (659, 33842), (710, 33905), (715, 33917), (742, 34025), (757, 34061),

Gene: Rita_44 Start: 31945, Stop: 33063, Start Num: 163

Candidate Starts for Rita_44:

(Start: 163 @31945 has 283 MA's), (232, 32083), (253, 32116), (284, 32164), (371, 32317), (382, 32326), (424, 32407), (468, 32500), (504, 32560), (512, 32572), (513, 32575), (529, 32602), (539, 32626), (560, 32653), (590, 32689), (592, 32692), (609, 32728), (625, 32764), (675, 32833), (682, 32848), (708, 32866), (727, 32935), (730, 32944), (734, 32956), (740, 32983), (745, 33001), (755, 33022), (762, 33037), (766, 33046), (768, 33049),

Gene: Rockstar_33 Start: 26058, Stop: 24934, Start Num: 152

Candidate Starts for Rockstar_33:

(Start: 118 @26100 has 1 MA's), (Start: 152 @26058 has 119 MA's), (Start: 180 @26019 has 10 MA's), (205, 25971), (Start: 218 @25935 has 6 MA's), (243, 25890), (346, 25716), (393, 25671), (418, 25629), (429, 25602), (464, 25536), (491, 25491), (551, 25383), (559, 25371), (582, 25350), (609, 25296), (613, 25290), (622, 25269), (629, 25254), (639, 25236), (657, 25209), (718, 25098), (731, 25050), (732, 25047), (738, 25020), (740, 25014), (743, 25002), (752, 24981), (761, 24963),

Gene: RootBeer_29 Start: 22941, Stop: 24083, Start Num: 163

Candidate Starts for RootBeer_29:

(Start: 163 @22941 has 283 MA's), (190, 22992), (202, 23019), (361, 23295), (368, 23301), (386, 23319), (438, 23427), (465, 23487), (519, 23580), (592, 23700), (614, 23748), (630, 23778), (682, 23874), (730, 23982), (753, 24057),

Gene: Rosmarinus_41 Start: 32583, Stop: 33671, Start Num: 163

Candidate Starts for Rosmarinus_41:

(16, 31980), (24, 32157), (41, 32322), (51, 32361), (Start: 163 @32583 has 283 MA's), (190, 32634), (Start: 218 @32685 has 6 MA's), (231, 32709), (253, 32745), (337, 32883), (429, 33021), (465, 33090), (466, 33093), (556, 33243), (618, 33348), (715, 33483),

Gene: Ruchi_33 Start: 24704, Stop: 23520, Start Num: 147

Candidate Starts for Ruchi_33:

(Start: 147 @24704 has 63 MA's), (263, 24485), (341, 24350), (379, 24275), (390, 24260), (501, 24059), (620, 23852), (624, 23840), (633, 23822), (640, 23807), (714, 23705), (719, 23678), (722, 23669),

Gene: Ruthy_39 Start: 33142, Stop: 31883, Start Num: 147

Candidate Starts for Ruthy_39:

(Start: 147 @33142 has 63 MA's), (312, 32821), (379, 32707), (387, 32695), (429, 32602), (439, 32578), (560, 32410), (563, 32407), (618, 32314), (620, 32311), (646, 32254), (707, 32137), (714, 32125), (727, 32068), (748, 31993), (757, 31981), (778, 31933),

Gene: Ryan_36 Start: 26903, Stop: 27823, Start Num: 279

Candidate Starts for Ryan_36:

(Start: 254 @26861 has 1 MA's), (Start: 279 @26903 has 58 MA's), (365, 27059), (380, 27077), (387, 27089), (451, 27236), (464, 27245), (490, 27284), (535, 27353), (537, 27359), (558, 27392), (579, 27416), (595, 27434), (600, 27446), (618, 27485), (720, 27665), (726, 27689), (730, 27704), (732, 27710), (761, 27791), (762, 27794),

Gene: SG4_40 Start: 31653, Stop: 32771, Start Num: 163

Candidate Starts for SG4_40:

(Start: 163 @31653 has 283 MA's), (168, 31662), (253, 31824), (346, 31989), (371, 32025), (382, 32034), (424, 32115), (438, 32139), (468, 32208), (491, 32247), (501, 32265), (504, 32268), (512, 32280), (513, 32283), (519, 32295), (539, 32334), (543, 32340), (560, 32361), (590, 32397), (592,

32400), (609, 32436), (613, 32442), (620, 32457), (675, 32541), (682, 32556), (708, 32574), (727, 32643), (730, 32652), (740, 32691), (745, 32709), (755, 32730), (762, 32745), (766, 32754), (768, 32757),

Gene: SPB78_39 Start: 30658, Stop: 29387, Start Num: 106

Candidate Starts for SPB78_39:

(Start: 106 @30658 has 1 MA's), (Start: 154 @30592 has 3 MA's), (251, 30403), (320, 30268), (337, 30244), (350, 30220), (366, 30190), (373, 30181), (377, 30175), (383, 30172), (451, 30025), (469, 30007), (518, 29917), (524, 29908), (595, 29800), (606, 29770), (631, 29722), (660, 29665), (679, 29629), (715, 29587), (718, 29569), (734, 29512), (739, 29488), (762, 29431), (776, 29404),

Gene: Saal_43 Start: 31957, Stop: 33075, Start Num: 163

Candidate Starts for Saal_43:

(Start: 163 @31957 has 283 MA's), (232, 32095), (253, 32128), (284, 32176), (346, 32293), (371, 32329), (382, 32338), (438, 32443), (468, 32512), (504, 32572), (512, 32584), (513, 32587), (519, 32599), (529, 32614), (539, 32638), (543, 32644), (560, 32665), (590, 32701), (592, 32704), (609, 32740), (613, 32746), (618, 32758), (620, 32761), (675, 32845), (682, 32860), (717, 32902), (727, 32947), (730, 32956), (740, 32995), (745, 33013), (755, 33034), (762, 33049), (766, 33058), (768, 33061),

Gene: Sabia_36 Start: 26783, Stop: 25638, Start Num: 152

Candidate Starts for Sabia_36:

(Start: 152 @26783 has 119 MA's), (Start: 180 @26744 has 10 MA's), (205, 26696), (Start: 218 @26660 has 6 MA's), (243, 26615), (337, 26459), (350, 26432), (393, 26396), (424, 26339), (464, 26261), (477, 26237), (503, 26198), (540, 26126), (546, 26114), (551, 26108), (559, 26096), (609, 26021), (613, 26015), (622, 25994), (629, 25979), (639, 25961), (655, 25937), (718, 25823), (730, 25778), (731, 25775), (734, 25766), (738, 25745), (740, 25739), (743, 25727), (761, 25688),

Gene: Sabinator_36 Start: 26788, Stop: 25643, Start Num: 152

Candidate Starts for Sabinator_36:

(Start: 152 @26788 has 119 MA's), (Start: 180 @26749 has 10 MA's), (205, 26701), (Start: 218 @26665 has 6 MA's), (243, 26620), (337, 26464), (350, 26437), (393, 26401), (424, 26344), (464, 26266), (477, 26242), (503, 26203), (540, 26131), (546, 26119), (551, 26113), (559, 26101), (609, 26026), (613, 26020), (622, 25999), (629, 25984), (639, 25966), (655, 25942), (718, 25828), (730, 25783), (731, 25780), (734, 25771), (738, 25750), (740, 25744), (743, 25732), (761, 25693),

Gene: Sahara_36 Start: 27505, Stop: 28704, Start Num: 83

Candidate Starts for Sahara_36:

(Start: 83 @27505 has 2 MA's), (Start: 86 @27511 has 6 MA's), (Start: 159 @27622 has 52 MA's), (190, 27676), (261, 27796), (423, 28051), (438, 28081), (466, 28141), (506, 28207), (519, 28231), (590, 28336), (723, 28561), (729, 28588), (766, 28693),

Gene: Sakai_36 Start: 24515, Stop: 25432, Start Num: 279

Candidate Starts for Sakai_36:

(208, 24386), (211, 24392), (Start: 279 @24515 has 58 MA's), (365, 24671), (380, 24686), (387, 24698), (451, 24845), (464, 24854), (490, 24893), (521, 24938), (535, 24962), (537, 24968), (558, 25001), (595, 25043), (599, 25052), (618, 25094), (662, 25178), (726, 25298), (730, 25313),

Gene: Sakai_40 Start: 27712, Stop: 26573, Start Num: 163

Candidate Starts for Sakai_40:

(Start: 163 @27712 has 283 MA's), (190, 27661), (289, 27493), (299, 27475), (388, 27343), (424, 27265), (429, 27253), (433, 27247), (465, 27178), (470, 27169), (506, 27109), (557, 27019), (620, 26914), (630, 26893), (645, 26866), (717, 26743), (723, 26719), (726, 26704), (746, 26629), (761,

26599),

Gene: SamW_27 Start: 25228, Stop: 23900, Start Num: 89

Candidate Starts for SamW_27:

(Start: 89 @25228 has 3 MA's), (Start: 106 @25192 has 1 MA's), (Start: 112 @25183 has 1 MA's), (Start: 151 @25126 has 3 MA's), (277, 24916), (Start: 279 @24913 has 58 MA's), (333, 24814), (343, 24796), (385, 24730), (390, 24724), (396, 24712), (475, 24547), (503, 24502), (515, 24481), (521, 24469), (535, 24445), (548, 24421), (553, 24415), (577, 24379), (624, 24283), (654, 24226), (676, 24181), (692, 24157), (714, 24142), (729, 24076), (730, 24073), (736, 24046), (742, 24028), (769, 23968), (793, 23914),

Gene: Samman98_36 Start: 27315, Stop: 28232, Start Num: 279

Candidate Starts for Samman98_36:

(Start: 275 @27309 has 15 MA's), (Start: 279 @27315 has 58 MA's), (393, 27504), (396, 27510), (438, 27612), (448, 27636), (491, 27696), (533, 27753), (535, 27759), (537, 27765), (612, 27879), (615, 27885), (621, 27897), (662, 27972), (675, 27996), (676, 27999), (711, 28035), (714, 28041), (716, 28053), (742, 28155),

Gene: Samman98_40 Start: 29099, Stop: 30226, Start Num: 163

Candidate Starts for Samman98_40:

(129, 29060), (Start: 163 @29099 has 283 MA's), (190, 29153), (250, 29276), (276, 29309), (321, 29399), (343, 29432), (465, 29627), (466, 29630), (491, 29672), (513, 29708), (700, 30005), (723, 30083), (729, 30110), (734, 30125), (740, 30152), (766, 30215),

Gene: SamuelLPlaqson_42 Start: 33376, Stop: 34464, Start Num: 163

Candidate Starts for SamuelLPlaqson_42:

(51, 33154), (Start: 163 @33376 has 283 MA's), (190, 33427), (Start: 218 @33478 has 6 MA's), (231, 33502), (253, 33538), (319, 33652), (371, 33730), (429, 33814), (465, 33883), (466, 33886), (556, 34036), (618, 34141), (715, 34276), (757, 34420),

Gene: Sarge_28 Start: 22501, Stop: 21347, Start Num: 163

Candidate Starts for Sarge_28:

(109, 22564), (Start: 163 @22501 has 283 MA's), (190, 22450), (192, 22447), (202, 22423), (319, 22198), (346, 22153), (355, 22132), (357, 22129), (382, 22105), (429, 22006), (438, 21991), (477, 21910), (533, 21817), (575, 21748), (607, 21694), (620, 21670), (630, 21652), (643, 21625), (675, 21571), (682, 21556), (692, 21547), (726, 21463), (727, 21457), (730, 21448), (742, 21403), (753, 21373),

Gene: Sarma624_38 Start: 27903, Stop: 29021, Start Num: 163

Candidate Starts for Sarma624_38:

(Start: 163 @27903 has 283 MA's), (253, 28074), (346, 28239), (371, 28275), (382, 28284), (424, 28365), (438, 28389), (468, 28458), (491, 28497), (501, 28515), (504, 28518), (512, 28530), (513, 28533), (519, 28545), (529, 28560), (539, 28584), (543, 28590), (560, 28611), (590, 28647), (592, 28650), (609, 28686), (613, 28692), (618, 28704), (620, 28707), (625, 28722), (675, 28791), (682, 28806), (717, 28848), (727, 28893), (730, 28902), (740, 28941), (745, 28959), (755, 28980), (762, 28995), (766, 29004), (768, 29007),

Gene: Sashimi_39 Start: 28789, Stop: 27602, Start Num: 163

Candidate Starts for Sashimi_39:

(Start: 163 @28789 has 283 MA's), (190, 28738), (221, 28672), (299, 28552), (343, 28471), (350, 28456), (388, 28420), (424, 28342), (465, 28255), (470, 28246), (490, 28216), (506, 28186), (557, 28096), (620, 27991), (717, 27820), (723, 27796), (726, 27781), (768, 27661),

Gene: Sashimi_35 Start: 25890, Stop: 26810, Start Num: 279

Candidate Starts for Sashimi_35:

(208, 25755), (209, 25758), (215, 25773), (217, 25782), (Start: 254 @25848 has 1 MA's), (Start: 279 @25890 has 58 MA's), (365, 26046), (370, 26052), (380, 26064), (387, 26076), (451, 26223), (464, 26232), (490, 26271), (521, 26316), (535, 26340), (537, 26346), (600, 26433), (625, 26490), (658, 26550), (662, 26556), (676, 26583), (726, 26676), (730, 26691), (762, 26781),

Gene: SaturnRing_33 Start: 26297, Stop: 25170, Start Num: 152

Candidate Starts for SaturnRing_33:

(Start: 152 @26297 has 119 MA's), (205, 26210), (Start: 218 @26174 has 6 MA's), (243, 26129), (337, 25973), (343, 25961), (346, 25955), (393, 25910), (423, 25856), (424, 25853), (464, 25775), (551, 25622), (559, 25610), (592, 25571), (609, 25535), (613, 25529), (622, 25508), (629, 25493), (639, 25475), (657, 25448), (718, 25337), (731, 25289), (738, 25259), (740, 25253), (743, 25241), (761, 25202),

Gene: Savage_37 Start: 27875, Stop: 28957, Start Num: 159

Candidate Starts for Savage_37:

(Start: 83 @27758 has 2 MA's), (Start: 86 @27764 has 6 MA's), (Start: 159 @27875 has 52 MA's), (190, 27929), (261, 28049), (423, 28304), (438, 28334), (466, 28394), (506, 28460), (519, 28484), (590, 28589), (723, 28814), (729, 28841), (766, 28946),

Gene: Sbash_40 Start: 34462, Stop: 33260, Start Num: 156

Candidate Starts for Sbash_40:

(Start: 156 @34462 has 17 MA's), (199, 34387), (211, 34357), (212, 34354), (334, 34141), (335, 34138), (364, 34075), (413, 33979), (432, 33940), (441, 33919), (476, 33865), (558, 33730), (660, 33553), (662, 33550), (663, 33547), (677, 33526), (723, 33424), (726, 33409), (744, 33343), (759, 33322),

Gene: Scarlett_45 Start: 33589, Stop: 34674, Start Num: 163

Candidate Starts for Scarlett_45:

(17, 32986), (19, 33004), (22, 33082), (31, 33253), (42, 33328), (51, 33367), (63, 33421), (Start: 163 @33589 has 283 MA's), (234, 33724), (253, 33751), (337, 33889), (358, 33931), (371, 33943), (429, 34027), (465, 34096), (466, 34099), (491, 34141), (556, 34249), (618, 34354), (675, 34441), (715, 34489), (742, 34597), (762, 34645),

Gene: Schatzie_77 Start: 51939, Stop: 53168, Start Num: 85

Candidate Starts for Schatzie_77:

(Start: 85 @51939 has 29 MA's), (Start: 91 @51957 has 1 MA's), (Start: 112 @51996 has 1 MA's), (Start: 254 @52233 has 1 MA's), (318, 52341), (418, 52461), (419, 52464), (423, 52473), (429, 52488), (447, 52527), (491, 52605), (556, 52710), (562, 52722), (575, 52725), (582, 52734), (607, 52785), (609, 52788), (619, 52806), (672, 52902), (709, 52959), (737, 53079), (738, 53082), (745, 53106), (757, 53130), (759, 53133),

Gene: Schmidt_32 Start: 24660, Stop: 23548, Start Num: 141

Candidate Starts for Schmidt_32:

(Start: 141 @24660 has 2 MA's), (172, 24615), (323, 24354), (340, 24330), (428, 24249), (429, 24243), (477, 24150), (506, 24108), (508, 24105), (529, 24069), (571, 23997), (601, 23946), (602, 23940), (615, 23919), (713, 23772), (723, 23733), (730, 23703), (738, 23670), (763, 23610), (783, 23571), (790, 23556),

Gene: Scout_33 Start: 25604, Stop: 24477, Start Num: 152

Candidate Starts for Scout_33:

(Start: 152 @25604 has 119 MA's), (205, 25517), (Start: 218 @25481 has 6 MA's), (243, 25436), (284, 25376), (337, 25280), (343, 25268), (346, 25262), (393, 25217), (423, 25163), (424, 25160), (436, 25136), (540, 24947), (551, 24929), (559, 24917), (592, 24878), (609, 24842), (613, 24836), (622, 24815), (629, 24800), (639, 24782), (718, 24644), (731, 24596), (738, 24566), (740, 24560), (743, 24548), (761, 24509),

Gene: Seahorse_41 Start: 29287, Stop: 28109, Start Num: 163

Candidate Starts for Seahorse_41:

(Start: 163 @29287 has 283 MA's), (221, 29170), (299, 29050), (388, 28918), (424, 28840), (465, 28753), (470, 28744), (506, 28684), (557, 28594), (620, 28489), (622, 28483), (645, 28441), (717, 28324), (722, 28303), (723, 28300), (726, 28285), (768, 28165),

Gene: Seahorse_38 Start: 26187, Stop: 27107, Start Num: 279

Candidate Starts for Seahorse_38:

(208, 26058), (211, 26064), (Start: 279 @26187 has 58 MA's), (342, 26301), (373, 26352), (380, 26361), (387, 26373), (410, 26430), (451, 26520), (464, 26529), (490, 26568), (535, 26637), (537, 26643), (543, 26652), (558, 26676), (579, 26700), (673, 26874), (726, 26973), (730, 26988), (762, 27078),

Gene: Sejanus_42 Start: 40492, Stop: 39290, Start Num: 156

Candidate Starts for Sejanus_42:

(Start: 156 @40492 has 17 MA's), (199, 40417), (208, 40393), (211, 40387), (274, 40282), (334, 40171), (335, 40168), (364, 40105), (432, 39970), (441, 39949), (476, 39895), (555, 39766), (558, 39760), (662, 39580), (663, 39577), (677, 39556), (697, 39520), (723, 39454), (726, 39439), (744, 39373), (760, 39349), (773, 39319),

Gene: Sekhmet_40 Start: 29999, Stop: 31126, Start Num: 163

Candidate Starts for Sekhmet_40:

(129, 29960), (Start: 163 @29999 has 283 MA's), (190, 30053), (250, 30176), (276, 30209), (321, 30299), (343, 30332), (465, 30527), (466, 30530), (491, 30572), (513, 30608), (700, 30905), (723, 30983), (729, 31010), (734, 31025), (740, 31052), (766, 31115),

Gene: SemperFi_35 Start: 26638, Stop: 25517, Start Num: 156

Candidate Starts for SemperFi_35:

(129, 26668), (Start: 156 @26638 has 17 MA's), (Start: 218 @26518 has 6 MA's), (243, 26473), (337, 26317), (350, 26290), (393, 26254), (424, 26197), (429, 26185), (464, 26119), (491, 26074), (503, 26056), (551, 25966), (559, 25954), (601, 25897), (609, 25879), (613, 25873), (622, 25852), (629, 25837), (639, 25819), (657, 25792), (718, 25681), (731, 25633), (732, 25630), (738, 25603), (740, 25597), (743, 25585), (761, 25546),

Gene: Sephiroth_7 Start: 2692, Stop: 1604, Start Num: 182

Candidate Starts for Sephiroth_7:

(108, 2797), (167, 2713), (Start: 182 @2692 has 4 MA's), (260, 2521), (308, 2431), (321, 2407), (336, 2386), (471, 2155), (498, 2122), (526, 2080), (535, 2065), (546, 2044), (553, 2035), (557, 2029), (608, 1945), (618, 1930), (663, 1843), (680, 1810), (727, 1723), (729, 1717), (737, 1684), (740, 1675), (742, 1669),

Gene: Serenity_34 Start: 25724, Stop: 24600, Start Num: 152

Candidate Starts for Serenity_34:

(Start: 152 @25724 has 119 MA's), (200, 25646), (Start: 218 @25601 has 6 MA's), (243, 25556), (272, 25514), (284, 25496), (350, 25373), (393, 25337), (423, 25283), (424, 25280), (464, 25202), (491, 25157), (493, 25154), (503, 25139), (546, 25055), (551, 25049), (582, 25016), (609, 24962), (622, 24935), (629, 24920), (639, 24902), (657, 24875), (718, 24764), (731, 24716), (732, 24713), (734,

24707), (738, 24686), (740, 24680), (743, 24668), (761, 24629),

Gene: Settecandela_38 Start: 20588, Stop: 21727, Start Num: 163

Candidate Starts for Settecandela_38:

(Start: 163 @20588 has 283 MA's), (192, 20642), (Start: 222 @20714 has 1 MA's), (371, 20966), (382, 20975), (423, 21065), (429, 21080), (465, 21158), (506, 21227), (513, 21239), (556, 21311), (596, 21362), (598, 21365), (613, 21401), (646, 21452), (675, 21500), (678, 21506), (682, 21515), (726, 21596), (754, 21689), (761, 21701), (766, 21713),

Gene: SgtBeansprout_36 Start: 31976, Stop: 33070, Start Num: 163

Candidate Starts for SgtBeansprout_36:

(30, 31625), (Start: 32 @31640 has 1 MA's), (45, 31733), (51, 31754), (82, 31847), (Start: 163 @31976 has 283 MA's), (190, 32027), (231, 32102), (253, 32138), (310, 32234), (319, 32252), (337, 32276), (367, 32324), (371, 32330), (452, 32462), (465, 32495), (491, 32540), (556, 32648), (618, 32753), (659, 32813), (715, 32888), (742, 32996), (757, 33032),

Gene: Shaobing_43 Start: 33037, Stop: 34128, Start Num: 163

Candidate Starts for Shaobing_43:

(33, 32704), (48, 32803), (50, 32812), (56, 32839), (71, 32887), (Start: 163 @33037 has 283 MA's), (Start: 188 @33082 has 14 MA's), (190, 33088), (231, 33163), (253, 33199), (319, 33313), (337, 33337), (371, 33391), (429, 33475), (444, 33508), (465, 33544), (466, 33547), (491, 33589), (539, 33676), (556, 33697), (618, 33805), (659, 33865), (710, 33928), (715, 33940), (742, 34048), (757, 34084),

Gene: Shauna1_38 Start: 31056, Stop: 32174, Start Num: 163

Candidate Starts for Shauna1_38:

(Start: 163 @31056 has 283 MA's), (253, 31227), (346, 31392), (371, 31428), (382, 31437), (424, 31518), (468, 31611), (504, 31671), (512, 31683), (513, 31686), (529, 31713), (539, 31737), (560, 31764), (590, 31800), (592, 31803), (609, 31839), (625, 31875), (675, 31944), (682, 31959), (708, 31977), (727, 32046), (730, 32055), (734, 32067), (740, 32094), (745, 32112), (755, 32133), (762, 32148), (766, 32157), (768, 32160),

Gene: ShawBrad_51 Start: 32319, Stop: 33413, Start Num: 163

Candidate Starts for ShawBrad_51:

(94, 32232), (115, 32268), (Start: 163 @32319 has 283 MA's), (190, 32370), (232, 32448), (250, 32475), (284, 32520), (303, 32562), (371, 32670), (382, 32679), (429, 32754), (439, 32772), (491, 32871), (512, 32904), (513, 32907), (519, 32919), (592, 33021), (641, 33114), (692, 33186), (723, 33246), (738, 33309), (742, 33321), (768, 33381),

Gene: SheldonCooper_34 Start: 26519, Stop: 25467, Start Num: 195

Candidate Starts for SheldonCooper_34:

(Start: 116 @26633 has 3 MA's), (135, 26606), (Start: 152 @26588 has 119 MA's), (Start: 195 @26519 has 8 MA's), (Start: 218 @26465 has 6 MA's), (346, 26246), (350, 26237), (393, 26201), (418, 26159), (423, 26147), (424, 26144), (540, 25931), (551, 25913), (609, 25826), (613, 25820), (622, 25799), (629, 25784), (639, 25766), (718, 25628), (731, 25580), (738, 25550), (740, 25544), (743, 25532), (761, 25493),

Gene: ShiaSurprise_42 Start: 32792, Stop: 33880, Start Num: 163

Candidate Starts for ShiaSurprise_42:

(Start: 163 @32792 has 283 MA's), (Start: 218 @32894 has 6 MA's), (231, 32918), (253, 32954), (337, 33092), (429, 33230), (465, 33299), (466, 33302), (556, 33452), (618, 33557), (715, 33692),

Gene: Shlim410_35 Start: 30765, Stop: 31682, Start Num: 279

Candidate Starts for Shlim410_35:

(Start: 275 @30759 has 15 MA's), (Start: 279 @30765 has 58 MA's), (387, 30945), (393, 30954), (396, 30960), (483, 31131), (491, 31146), (533, 31203), (535, 31209), (537, 31215), (546, 31230), (612, 31329), (615, 31335), (621, 31347), (662, 31422), (675, 31446), (676, 31449), (711, 31485), (714, 31491), (716, 31503), (742, 31605),

Gene: Shlim410_38 Start: 32549, Stop: 33676, Start Num: 163

Candidate Starts for Shlim410_38:

(129, 32510), (Start: 163 @32549 has 283 MA's), (190, 32603), (250, 32726), (276, 32759), (321, 32849), (343, 32882), (465, 33077), (466, 33080), (491, 33122), (513, 33158), (700, 33455), (723, 33533), (729, 33560), (734, 33575), (740, 33602), (766, 33665),

Gene: Shoya_35 Start: 24881, Stop: 23751, Start Num: 163

Candidate Starts for Shoya_35:

(Start: 163 @24881 has 283 MA's), (190, 24830), (192, 24827), (319, 24602), (346, 24557), (355, 24536), (357, 24533), (380, 24512), (382, 24509), (438, 24395), (481, 24311), (607, 24098), (620, 24074), (630, 24056), (643, 24029), (659, 24002), (675, 23975), (682, 23960), (692, 23951), (727, 23861), (742, 23807), (753, 23777),

Gene: ShroomBoi_42 Start: 32032, Stop: 33150, Start Num: 163

Candidate Starts for ShroomBoi_42:

(Start: 163 @32032 has 283 MA's), (168, 32041), (232, 32170), (253, 32203), (284, 32251), (346, 32368), (371, 32404), (382, 32413), (424, 32494), (438, 32518), (468, 32587), (491, 32626), (501, 32644), (504, 32647), (512, 32659), (513, 32662), (519, 32674), (529, 32689), (539, 32713), (543, 32719), (560, 32740), (590, 32776), (592, 32779), (609, 32815), (613, 32821), (620, 32836), (625, 32851), (675, 32920), (682, 32935), (717, 32977), (727, 33022), (730, 33031), (740, 33070), (745, 33088), (755, 33109), (762, 33124), (766, 33133), (768, 33136),

Gene: Shukran_42 Start: 28423, Stop: 27284, Start Num: 163

Candidate Starts for Shukran_42:

(59, 28612), (78, 28567), (102, 28507), (Start: 163 @28423 has 283 MA's), (190, 28375), (264, 28249), (289, 28210), (368, 28066), (382, 28054), (386, 28048), (429, 27955), (438, 27940), (465, 27880), (477, 27856), (483, 27850), (519, 27787), (614, 27619), (630, 27589), (682, 27493), (730, 27385), (734, 27373), (753, 27310),

Gene: Shukran_39 Start: 25561, Stop: 26481, Start Num: 279

Candidate Starts for Shukran_39:

(Start: 279 @25561 has 58 MA's), (342, 25675), (380, 25735), (387, 25747), (451, 25894), (464, 25903), (490, 25942), (521, 25987), (535, 26011), (537, 26017), (543, 26026), (558, 26050), (595, 26092), (597, 26095), (599, 26101), (618, 26143), (625, 26161), (662, 26227), (676, 26254), (726, 26347), (730, 26362),

Gene: Sidious_37 Start: 31771, Stop: 30602, Start Num: 147

Candidate Starts for Sidious_37:

(Start: 147 @31771 has 63 MA's), (315, 31447), (338, 31411), (366, 31357), (370, 31351), (379, 31339), (387, 31327), (429, 31234), (432, 31228), (443, 31198), (511, 31129), (512, 31126), (529, 31096), (558, 31045), (609, 30973), (646, 30898), (714, 30811), (716, 30799), (738, 30712), (741, 30703), (761, 30658), (778, 30619),

Gene: SimranZ1_43 Start: 31600, Stop: 32718, Start Num: 163

Candidate Starts for SimranZ1_43:

(Start: 163 @31600 has 283 MA's), (232, 31738), (253, 31771), (284, 31819), (371, 31972), (382, 31981), (424, 32062), (468, 32155), (504, 32215), (512, 32227), (513, 32230), (529, 32257), (539,

32281), (560, 32308), (590, 32344), (592, 32347), (609, 32383), (625, 32419), (675, 32488), (682, 32503), (708, 32521), (727, 32590), (730, 32599), (740, 32638), (745, 32656), (755, 32677), (762, 32692), (766, 32701), (768, 32704),

Gene: Sixama_89 Start: 47436, Stop: 48350, Start Num: 298

Candidate Starts for Sixama_89:

(Start: 298 @47436 has 1 MA's), (318, 47481), (350, 47538), (370, 47568), (386, 47586), (420, 47667), (429, 47685), (491, 47796), (521, 47853), (534, 47874), (535, 47877), (626, 48027), (645, 48063), (649, 48072),

Gene: Skitty_35 Start: 24174, Stop: 23056, Start Num: 146

Candidate Starts for Skitty_35:

(Start: 146 @24174 has 1 MA's), (248, 23979), (262, 23952), (292, 23913), (341, 23823), (346, 23814), (377, 23757), (385, 23745), (387, 23742), (393, 23733), (398, 23721), (422, 23661), (425, 23652), (435, 23637), (501, 23571), (511, 23556), (519, 23538), (533, 23514), (534, 23511), (587, 23436), (611, 23388), (618, 23373), (627, 23352), (643, 23325), (738, 23139), (761, 23085),

Gene: Sknot_35 Start: 26449, Stop: 25382, Start Num: 188

Candidate Starts for Sknot_35:

(Start: 103 @26566 has 3 MA's), (Start: 152 @26503 has 119 MA's), (Start: 188 @26449 has 14 MA's), (Start: 218 @26380 has 6 MA's), (243, 26335), (316, 26209), (350, 26152), (393, 26116), (423, 26062), (424, 26059), (491, 25936), (503, 25918), (551, 25828), (559, 25816), (609, 25741), (613, 25735), (622, 25714), (629, 25699), (639, 25681), (657, 25654), (731, 25495), (738, 25465), (740, 25459), (743, 25447), (761, 25408),

Gene: Sleepyhead_38 Start: 29423, Stop: 28182, Start Num: 151

Candidate Starts for Sleepyhead_38:

(120, 29465), (Start: 151 @29423 has 3 MA's), (234, 29285), (277, 29213), (375, 29036), (399, 28997), (405, 28979), (498, 28808), (516, 28781), (539, 28742), (557, 28715), (594, 28667), (608, 28634), (622, 28610), (644, 28568), (660, 28538), (669, 28520), (680, 28499), (714, 28469), (727, 28409), (730, 28400), (762, 28307), (795, 28229), (796, 28205),

Gene: Slimphazie_41 Start: 32477, Stop: 33565, Start Num: 163

Candidate Starts for Slimphazie_41:

(Start: 163 @32477 has 283 MA's), (190, 32528), (Start: 218 @32579 has 6 MA's), (231, 32603), (253, 32639), (337, 32777), (371, 32831), (429, 32915), (465, 32984), (466, 32987), (556, 33137), (603, 33215), (618, 33242), (675, 33329), (715, 33377),

Gene: Smeagan_36 Start: 26880, Stop: 25771, Start Num: 152

Candidate Starts for Smeagan_36:

(Start: 123 @26913 has 7 MA's), (Start: 138 @26895 has 7 MA's), (Start: 152 @26880 has 119 MA's), (Start: 195 @26814 has 8 MA's), (Start: 218 @26766 has 6 MA's), (243, 26721), (337, 26565), (346, 26547), (350, 26538), (393, 26502), (424, 26445), (464, 26367), (477, 26343), (486, 26334), (491, 26322), (503, 26304), (551, 26214), (559, 26202), (601, 26145), (609, 26127), (622, 26100), (629, 26085), (639, 26067), (657, 26040), (659, 26031), (718, 25929), (731, 25881), (732, 25878), (738, 25851), (740, 25845), (743, 25833), (761, 25794),

Gene: SnapTap_34 Start: 26396, Stop: 25329, Start Num: 188

Candidate Starts for SnapTap_34:

(Start: 103 @26513 has 3 MA's), (Start: 152 @26450 has 119 MA's), (Start: 188 @26396 has 14 MA's), (Start: 218 @26327 has 6 MA's), (243, 26282), (316, 26156), (346, 26108), (350, 26099), (393, 26063), (423, 26009), (424, 26006), (491, 25883), (503, 25865), (519, 25835), (546, 25781), (551, 25775), (559, 25763), (609, 25688), (613, 25682), (622, 25661), (629, 25646), (639, 25628), (657,

25601), (718, 25490), (731, 25442), (738, 25412), (740, 25406), (743, 25394), (761, 25355),

Gene: Snickers_36 Start: 26724, Stop: 25618, Start Num: 180

Candidate Starts for Snickers_36:

(Start: 152 @26763 has 119 MA's), (Start: 180 @26724 has 10 MA's), (205, 26676), (Start: 218 @26640 has 6 MA's), (243, 26595), (337, 26439), (350, 26412), (393, 26376), (424, 26319), (464, 26241), (477, 26217), (503, 26178), (540, 26106), (546, 26094), (551, 26088), (559, 26076), (609, 26001), (613, 25995), (622, 25974), (629, 25959), (639, 25941), (655, 25917), (718, 25803), (730, 25758), (731, 25755), (734, 25746), (738, 25725), (740, 25719), (743, 25707), (761, 25668),

Gene: SoYo_36 Start: 26701, Stop: 25556, Start Num: 152

Candidate Starts for SoYo_36:

(Start: 152 @26701 has 119 MA's), (Start: 180 @26662 has 10 MA's), (205, 26614), (Start: 218 @26578 has 6 MA's), (243, 26533), (337, 26377), (350, 26350), (393, 26314), (424, 26257), (464, 26179), (477, 26155), (503, 26116), (540, 26044), (546, 26032), (551, 26026), (559, 26014), (609, 25939), (613, 25933), (622, 25912), (629, 25897), (639, 25879), (655, 25855), (718, 25741), (730, 25696), (731, 25693), (734, 25684), (738, 25663), (740, 25657), (743, 25645), (761, 25606),

Gene: SoilAssassin_34 Start: 27695, Stop: 28777, Start Num: 159

Candidate Starts for SoilAssassin_34:

(Start: 86 @27584 has 6 MA's), (Start: 159 @27695 has 52 MA's), (190, 27749), (261, 27869), (423, 28124), (438, 28154), (466, 28214), (506, 28280), (519, 28304), (723, 28634), (729, 28661), (766, 28766),

Gene: SoilDragon_35 Start: 26236, Stop: 25091, Start Num: 152

Candidate Starts for SoilDragon_35:

(Start: 152 @26236 has 119 MA's), (Start: 180 @26197 has 10 MA's), (205, 26149), (Start: 218 @26113 has 6 MA's), (243, 26068), (337, 25912), (350, 25885), (393, 25849), (424, 25792), (464, 25714), (477, 25690), (503, 25651), (540, 25579), (546, 25567), (551, 25561), (559, 25549), (609, 25474), (613, 25468), (622, 25447), (629, 25432), (639, 25414), (718, 25276), (730, 25231), (731, 25228), (734, 25219), (738, 25198), (740, 25192), (743, 25180), (761, 25141),

Gene: Sonali_29 Start: 28564, Stop: 29715, Start Num: 163

Candidate Starts for Sonali_29:

(132, 28522), (Start: 163 @28564 has 283 MA's), (168, 28573), (268, 28741), (391, 28918), (424, 28990), (529, 29185), (695, 29473), (726, 29569), (729, 29581), (730, 29584),

Gene: Soul22_46 Start: 32314, Stop: 33432, Start Num: 163

Candidate Starts for Soul22_46:

(Start: 163 @32314 has 283 MA's), (253, 32485), (371, 32686), (382, 32695), (424, 32776), (468, 32869), (504, 32929), (512, 32941), (513, 32944), (529, 32971), (539, 32995), (560, 33022), (590, 33058), (592, 33061), (609, 33097), (625, 33133), (675, 33202), (682, 33217), (708, 33235), (727, 33304), (730, 33313), (740, 33352), (745, 33370), (755, 33391), (762, 33406), (766, 33415), (768, 33418),

Gene: Sparky_45 Start: 33811, Stop: 34989, Start Num: 166

Candidate Starts for Sparky_45:

(Start: 166 @33811 has 2 MA's), (190, 33859), (225, 33925), (253, 33970), (343, 34120), (360, 34162), (429, 34276), (440, 34303), (465, 34351), (466, 34354), (513, 34435), (519, 34447), (588, 34552), (609, 34594), (616, 34609), (623, 34624), (643, 34648), (715, 34759), (729, 34819), (755, 34900), (761, 34912), (777, 34951),

Gene: Spartacus_41 Start: 31407, Stop: 32525, Start Num: 163

Candidate Starts for Spartacus_41:

(Start: 163 @31407 has 283 MA's), (168, 31416), (253, 31578), (382, 31788), (424, 31869), (468, 31962), (491, 32001), (504, 32022), (512, 32034), (513, 32037), (533, 32073), (539, 32088), (543, 32094), (560, 32115), (590, 32151), (592, 32154), (609, 32190), (613, 32196), (625, 32226), (646, 32247), (675, 32295), (682, 32310), (717, 32352), (727, 32397), (730, 32406), (740, 32445), (745, 32463), (755, 32484), (762, 32499), (766, 32508), (768, 32511),

Gene: Spartoi_37 Start: 25898, Stop: 24921, Start Num: 222

Candidate Starts for Spartoi_37:

(Start: 163 @26012 has 283 MA's), (185, 25973), (190, 25961), (Start: 222 @25898 has 1 MA's), (232, 25883), (331, 25718), (358, 25670), (361, 25667), (406, 25643), (429, 25583), (483, 25481), (506, 25442), (613, 25262), (623, 25238), (629, 25226), (659, 25166), (675, 25139), (683, 25124), (693, 25115), (715, 25085), (717, 25076), (727, 25031), (729, 25025), (745, 24965), (753, 24947),

Gene: Sparxx_33 Start: 26249, Stop: 25128, Start Num: 152

Candidate Starts for Sparxx_33:

(Start: 116 @26294 has 3 MA's), (135, 26267), (Start: 152 @26249 has 119 MA's), (Start: 195 @26180 has 8 MA's), (Start: 218 @26126 has 6 MA's), (346, 25907), (350, 25898), (393, 25862), (418, 25820), (423, 25808), (424, 25805), (464, 25727), (540, 25592), (551, 25574), (609, 25487), (613, 25481), (622, 25460), (629, 25445), (639, 25427), (718, 25289), (731, 25241), (738, 25211), (740, 25205), (743, 25193), (761, 25154),

Gene: SpicyFrank_39 Start: 27481, Stop: 26348, Start Num: 163

Candidate Starts for SpicyFrank_39:

(93, 27571), (104, 27550), (Start: 163 @27481 has 283 MA's), (190, 27430), (289, 27262), (299, 27244), (361, 27130), (388, 27112), (424, 27034), (465, 26947), (470, 26938), (506, 26878), (533, 26830), (557, 26788), (620, 26683), (641, 26638), (645, 26635), (717, 26518), (723, 26494), (726, 26479), (746, 26404), (761, 26374),

Gene: SpicyFrank_36 Start: 24807, Stop: 25724, Start Num: 279

Candidate Starts for SpicyFrank_36:

(208, 24678), (211, 24684), (Start: 279 @24807 has 58 MA's), (365, 24963), (380, 24978), (387, 24990), (451, 25137), (490, 25185), (521, 25230), (535, 25254), (537, 25260), (558, 25293), (595, 25335), (599, 25344), (600, 25347), (621, 25392), (662, 25470), (720, 25566), (726, 25590), (730, 25605), (762, 25695),

Gene: Splinter_37 Start: 27965, Stop: 26850, Start Num: 174

Candidate Starts for Splinter_37:

(129, 28034), (Start: 174 @27965 has 12 MA's), (351, 27626), (375, 27593), (532, 27299), (544, 27287), (568, 27254), (645, 27107), (734, 26936), (740, 26909),

Gene: Spock_41 Start: 32596, Stop: 33684, Start Num: 163

Candidate Starts for Spock_41:

(27, 32212), (35, 32299), (51, 32374), (Start: 163 @32596 has 283 MA's), (190, 32647), (Start: 218 @32698 has 6 MA's), (231, 32722), (253, 32758), (337, 32896), (429, 33034), (465, 33103), (466, 33106), (556, 33256), (618, 33361), (715, 33496),

Gene: Spooks_10 Start: 8825, Stop: 7629, Start Num: 126

Candidate Starts for Spooks_10:

(Start: 126 @8825 has 1 MA's), (153, 8792), (186, 8759), (245, 8645), (247, 8639), (Start: 275 @8588 has 15 MA's), (314, 8516), (387, 8405), (447, 8264), (464, 8246), (528, 8153), (579, 8075), (608, 8030), (615, 8018), (685, 7886), (722, 7820), (726, 7802), (730, 7787), (734, 7775), (746, 7727), (785, 7652), (787, 7649),

Gene: Spooky_35 Start: 27760, Stop: 28698, Start Num: 275

Candidate Starts for Spooky_35:

(267, 27748), (Start: 275 @27760 has 15 MA's), (326, 27853), (369, 27925), (400, 27976), (432, 28054), (448, 28093), (477, 28132), (530, 28204), (535, 28216), (543, 28231), (546, 28237), (564, 28261), (595, 28297), (622, 28357), (630, 28375), (646, 28408), (662, 28435), (675, 28459), (676, 28462), (698, 28495), (711, 28501), (733, 28585), (742, 28621), (773, 28690),

Gene: Sproutie_37 Start: 27875, Stop: 28957, Start Num: 159

Candidate Starts for Sproutie_37:

(Start: 83 @27758 has 2 MA's), (Start: 86 @27764 has 6 MA's), (Start: 159 @27875 has 52 MA's), (190, 27929), (261, 28049), (423, 28304), (438, 28334), (466, 28394), (506, 28460), (519, 28484), (590, 28589), (723, 28814), (729, 28841), (766, 28946),

Gene: Squiddly_37 Start: 28992, Stop: 29930, Start Num: 275

Candidate Starts for Squiddly_37:

(267, 28980), (Start: 275 @28992 has 15 MA's), (369, 29157), (400, 29208), (448, 29325), (530, 29436), (535, 29448), (543, 29463), (546, 29469), (553, 29478), (564, 29493), (595, 29529), (612, 29568), (622, 29589), (630, 29607), (646, 29640), (662, 29667), (675, 29691), (676, 29694), (678, 29697), (694, 29721), (711, 29733), (730, 29808), (732, 29814), (733, 29817), (762, 29901), (773, 29922),

Gene: Squint_87 Start: 50854, Stop: 52128, Start Num: 69

Candidate Starts for Squint_87:

(54, 50797), (Start: 65 @50839 has 1 MA's), (Start: 69 @50854 has 10 MA's), (72, 50857), (Start: 91 @50902 has 1 MA's), (Start: 112 @50941 has 1 MA's), (342, 51322), (418, 51406), (423, 51418), (424, 51421), (491, 51550), (575, 51670), (609, 51733), (619, 51751), (631, 51775), (672, 51847), (737, 52024), (738, 52027), (740, 52033), (745, 52051), (752, 52066), (757, 52075), (759, 52078), (779, 52123),

Gene: Squirry_35 Start: 28972, Stop: 30078, Start Num: 163

Candidate Starts for Squirry_35:

(144, 28951), (Start: 163 @28972 has 283 MA's), (247, 29131), (269, 29167), (358, 29332), (429, 29428), (436, 29440), (453, 29473), (465, 29497), (506, 29566), (512, 29575), (513, 29578), (539, 29629), (556, 29650), (603, 29728), (613, 29743), (654, 29803), (675, 29842), (682, 29857), (705, 29881), (717, 29908), (723, 29932), (727, 29953), (730, 29962), (745, 30019),

Gene: StAB_26 Start: 25588, Stop: 24371, Start Num: 151

Candidate Starts for StAB_26:

(108, 25651), (Start: 151 @25588 has 3 MA's), (239, 25408), (258, 25375), (330, 25243), (384, 25153), (394, 25135), (402, 25120), (405, 25108), (415, 25081), (429, 25054), (442, 25021), (450, 25012), (500, 24949), (512, 24931), (521, 24916), (535, 24895), (576, 24829), (616, 24751), (626, 24730), (632, 24718), (634, 24715), (651, 24685), (691, 24616), (695, 24610), (714, 24598), (717, 24583), (723, 24559), (724, 24556), (726, 24544), (730, 24529), (734, 24517), (738, 24496), (742, 24484), (754, 24451), (769, 24424), (780, 24406), (791, 24385), (793, 24376),

Gene: StAnnes_42 Start: 33543, Stop: 34661, Start Num: 163

Candidate Starts for StAnnes_42:

(Start: 163 @33543 has 283 MA's), (168, 33552), (253, 33714), (346, 33879), (371, 33915), (382, 33924), (438, 34029), (468, 34098), (491, 34137), (504, 34158), (512, 34170), (513, 34173), (519, 34185), (539, 34224), (543, 34230), (560, 34251), (590, 34287), (592, 34290), (609, 34326), (613, 34332), (620, 34347), (675, 34431), (682, 34446), (717, 34488), (727, 34533), (730, 34542), (740, 34581), (745, 34599), (755, 34620), (762, 34635), (766, 34644), (768, 34647),

Gene: Stagni_36 Start: 26792, Stop: 25647, Start Num: 152

Candidate Starts for Stagni_36:

(Start: 152 @26792 has 119 MA's), (Start: 180 @26753 has 10 MA's), (205, 26705), (Start: 218 @26669 has 6 MA's), (243, 26624), (337, 26468), (350, 26441), (393, 26405), (424, 26348), (464, 26270), (477, 26246), (503, 26207), (540, 26135), (546, 26123), (551, 26117), (559, 26105), (609, 26030), (613, 26024), (622, 26003), (629, 25988), (639, 25970), (655, 25946), (718, 25832), (730, 25787), (731, 25784), (734, 25775), (738, 25754), (740, 25748), (743, 25736), (761, 25697),

Gene: StarStuff_37 Start: 26423, Stop: 25353, Start Num: 188

Candidate Starts for StarStuff_37:

(Start: 152 @26477 has 119 MA's), (Start: 188 @26423 has 14 MA's), (Start: 218 @26354 has 6 MA's), (337, 26153), (350, 26126), (393, 26090), (424, 26033), (438, 26006), (464, 25955), (486, 25922), (491, 25910), (503, 25892), (540, 25820), (551, 25802), (559, 25790), (592, 25751), (609, 25715), (613, 25709), (622, 25688), (629, 25673), (639, 25655), (657, 25628), (718, 25517), (731, 25469), (732, 25466), (738, 25439), (740, 25433), (743, 25421), (761, 25382),

Gene: StepMih_36 Start: 26783, Stop: 25638, Start Num: 152

Candidate Starts for StepMih_36:

(Start: 152 @26783 has 119 MA's), (Start: 180 @26744 has 10 MA's), (205, 26696), (Start: 218 @26660 has 6 MA's), (243, 26615), (337, 26459), (350, 26432), (393, 26396), (424, 26339), (464, 26261), (477, 26237), (503, 26198), (540, 26126), (546, 26114), (551, 26108), (559, 26096), (609, 26021), (613, 26015), (622, 25994), (629, 25979), (639, 25961), (655, 25937), (718, 25823), (730, 25778), (731, 25775), (734, 25766), (738, 25745), (740, 25739), (743, 25727), (761, 25688),

Gene: Stiles_27 Start: 25121, Stop: 23991, Start Num: 154

Candidate Starts for Stiles_27:

(Start: 154 @25121 has 3 MA's), (169, 25106), (187, 25082), (247, 24968), (271, 24929), (294, 24887), (308, 24854), (313, 24845), (330, 24818), (342, 24800), (391, 24716), (399, 24701), (415, 24656), (451, 24596), (492, 24554), (498, 24542), (502, 24536), (516, 24515), (543, 24470), (548, 24461), (550, 24458), (553, 24455), (567, 24434), (615, 24350), (620, 24344), (628, 24326), (645, 24296), (687, 24239), (718, 24197), (723, 24182), (726, 24167), (727, 24161), (730, 24152), (733, 24143), (740, 24113), (756, 24071), (767, 24050), (769, 24047), (773, 24038), (789, 24011), (793, 23996),

Gene: Stinson_42 Start: 32990, Stop: 34078, Start Num: 163

Candidate Starts for Stinson_42:

(Start: 163 @32990 has 283 MA's), (Start: 218 @33092 has 6 MA's), (231, 33116), (253, 33152), (289, 33203), (319, 33266), (337, 33290), (371, 33344), (378, 33347), (429, 33428), (465, 33497), (466, 33500), (556, 33650), (603, 33728), (618, 33755), (715, 33890),

Gene: Strobilo_43 Start: 34292, Stop: 35392, Start Num: 163

Candidate Starts for Strobilo_43:

(Start: 163 @34292 has 283 MA's), (172, 34310), (190, 34343), (231, 34418), (253, 34454), (319, 34568), (337, 34592), (371, 34646), (458, 34787), (465, 34811), (466, 34814), (491, 34856), (556, 34964), (618, 35069), (651, 35114), (659, 35129), (742, 35321),

Gene: Strokeseat_41 Start: 31786, Stop: 32904, Start Num: 163

Candidate Starts for Strokeseat_41:

(Start: 163 @31786 has 283 MA's), (253, 31957), (346, 32122), (371, 32158), (382, 32167), (438, 32272), (468, 32341), (491, 32380), (504, 32401), (512, 32413), (513, 32416), (519, 32428), (539, 32467), (543, 32473), (560, 32494), (590, 32530), (592, 32533), (609, 32569), (613, 32575), (618, 32587), (620, 32590), (625, 32605), (675, 32674), (682, 32689), (708, 32707), (727, 32776), (730, 32785), (740, 32824), (745, 32842), (755, 32863), (762, 32878), (766, 32887), (768, 32890),

Gene: StuartMinion_30 Start: 20996, Stop: 19803, Start Num: 147

Candidate Starts for StuartMinion_30:

(Start: 147 @20996 has 63 MA's), (379, 20567), (511, 20336), (570, 20237), (624, 20132), (630, 20120), (722, 19961), (766, 19832),

Gene: Success_11 Start: 8095, Stop: 6848, Start Num: 126

Candidate Starts for Success_11:

(Start: 126 @8095 has 1 MA's), (205, 7975), (429, 7570), (442, 7537), (446, 7528), (489, 7474), (522, 7420), (535, 7402), (546, 7381), (579, 7336), (608, 7285), (669, 7162), (751, 6976), (758, 6955), (780, 6907),

Gene: Suerte_34 Start: 29564, Stop: 28395, Start Num: 147

Candidate Starts for Suerte_34:

(Start: 147 @29564 has 63 MA's), (224, 29402), (317, 29240), (328, 29222), (364, 29156), (377, 29138), (387, 29123), (408, 29078), (423, 29039), (429, 29030), (438, 29009), (439, 29006), (512, 28922), (623, 28739), (629, 28727), (646, 28691), (662, 28661), (714, 28604), (716, 28592), (719, 28577), (743, 28487), (761, 28451), (778, 28412), (784, 28403),

Gene: Sulley_41 Start: 32725, Stop: 33810, Start Num: 163

Candidate Starts for Sulley_41:

(Start: 163 @32725 has 283 MA's), (Start: 218 @32827 has 6 MA's), (221, 32836), (231, 32851), (253, 32887), (337, 33025), (371, 33079), (429, 33163), (465, 33232), (466, 33235), (556, 33385), (618, 33490), (675, 33577), (715, 33625), (757, 33769),

Gene: Sunshine23_31 Start: 28591, Stop: 29733, Start Num: 168

Candidate Starts for Sunshine23_31:

(132, 28540), (Start: 163 @28582 has 283 MA's), (168, 28591), (268, 28759), (391, 28936), (424, 29008), (529, 29203), (695, 29491), (726, 29587), (729, 29599), (730, 29602),

Gene: SuperGrey_42 Start: 32615, Stop: 33742, Start Num: 163

Candidate Starts for SuperGrey_42:

(Start: 91 @32513 has 1 MA's), (Start: 123 @32570 has 7 MA's), (Start: 163 @32615 has 283 MA's), (168, 32624), (253, 32786), (281, 32837), (289, 32855), (310, 32900), (371, 32996), (382, 33005), (424, 33086), (438, 33110), (468, 33179), (491, 33218), (504, 33239), (512, 33251), (513, 33254), (529, 33281), (539, 33305), (543, 33311), (560, 33332), (590, 33368), (592, 33371), (609, 33407), (613, 33413), (618, 33425), (620, 33428), (625, 33443), (675, 33512), (682, 33527), (717, 33569), (727, 33614), (730, 33623), (740, 33662), (745, 33680), (755, 33701), (762, 33716), (766, 33725), (768, 33728),

Gene: Superchunk_33 Start: 24997, Stop: 23882, Start Num: 157

Candidate Starts for Superchunk_33:

(Start: 157 @24997 has 6 MA's), (Start: 188 @24949 has 14 MA's), (205, 24916), (Start: 218 @24880 has 6 MA's), (243, 24835), (343, 24667), (350, 24652), (393, 24616), (418, 24574), (423, 24562), (424, 24559), (470, 24472), (477, 24457), (551, 24328), (559, 24316), (582, 24295), (592, 24277), (609, 24241), (622, 24214), (629, 24199), (639, 24181), (657, 24154), (718, 24043), (731, 23995), (738, 23965), (740, 23959), (743, 23947), (761, 23908),

Gene: Superphikiman_84 Start: 49930, Stop: 51219, Start Num: 65

Candidate Starts for Superphikiman_84:

(54, 49888), (Start: 65 @49930 has 1 MA's), (Start: 69 @49945 has 10 MA's), (72, 49948), (Start: 91 @49993 has 1 MA's), (Start: 112 @50032 has 1 MA's), (342, 50413), (418, 50497), (423, 50509), (424, 50512), (491, 50641), (575, 50761), (609, 50824), (619, 50842), (631, 50866), (672, 50938), (737,

51115), (738, 51118), (740, 51124), (745, 51142), (752, 51157), (757, 51166), (759, 51169), (779, 51214),

Gene: Susceptit_39 Start: 30564, Stop: 31646, Start Num: 159

Candidate Starts for Susceptit_39:

(Start: 86 @30453 has 6 MA's), (Start: 159 @30564 has 52 MA's), (190, 30618), (261, 30738), (423, 30993), (438, 31023), (466, 31083), (506, 31149), (519, 31173), (723, 31503), (729, 31530), (766, 31635),

Gene: SwagPiggett_45 Start: 33012, Stop: 34130, Start Num: 163

Candidate Starts for SwagPiggett_45:

(Start: 163 @33012 has 283 MA's), (232, 33150), (253, 33183), (284, 33231), (346, 33348), (371, 33384), (382, 33393), (438, 33498), (468, 33567), (504, 33627), (512, 33639), (513, 33642), (519, 33654), (529, 33669), (539, 33693), (543, 33699), (560, 33720), (590, 33756), (592, 33759), (609, 33795), (613, 33801), (618, 33813), (620, 33816), (675, 33900), (682, 33915), (717, 33957), (727, 34002), (730, 34011), (740, 34050), (745, 34068), (755, 34089), (762, 34104), (766, 34113), (768, 34116),

Gene: SweetiePie_34 Start: 26396, Stop: 25329, Start Num: 188

Candidate Starts for SweetiePie_34:

(Start: 103 @26513 has 3 MA's), (Start: 152 @26450 has 119 MA's), (Start: 188 @26396 has 14 MA's), (Start: 218 @26327 has 6 MA's), (243, 26282), (316, 26156), (346, 26108), (350, 26099), (393, 26063), (423, 26009), (424, 26006), (491, 25883), (503, 25865), (519, 25835), (546, 25781), (551, 25775), (559, 25763), (609, 25688), (613, 25682), (622, 25661), (629, 25646), (639, 25628), (657, 25601), (718, 25490), (731, 25442), (738, 25412), (740, 25406), (743, 25394), (761, 25355),

Gene: SwirlSquare_35 Start: 25021, Stop: 23906, Start Num: 157

Candidate Starts for SwirlSquare_35:

(Start: 157 @25021 has 6 MA's), (205, 24940), (Start: 218 @24904 has 6 MA's), (243, 24859), (Start: 298 @24772 has 1 MA's), (337, 24703), (343, 24691), (346, 24685), (393, 24640), (409, 24622), (418, 24598), (423, 24586), (424, 24583), (551, 24352), (559, 24340), (609, 24265), (622, 24238), (629, 24223), (639, 24205), (657, 24178), (731, 24019), (738, 23989), (740, 23983), (743, 23971), (761, 23932),

Gene: Syleon_7 Start: 2611, Stop: 1523, Start Num: 182

Candidate Starts for Syleon_7:

(108, 2716), (167, 2632), (Start: 182 @2611 has 4 MA's), (260, 2440), (308, 2350), (321, 2326), (336, 2305), (471, 2074), (498, 2041), (526, 1999), (535, 1984), (546, 1963), (553, 1954), (557, 1948), (608, 1864), (618, 1849), (663, 1762), (680, 1729), (729, 1636), (737, 1603), (740, 1594), (742, 1588),

Gene: TChen_44 Start: 33582, Stop: 34700, Start Num: 163

Candidate Starts for TChen_44:

(Start: 163 @33582 has 283 MA's), (168, 33591), (232, 33720), (253, 33753), (284, 33801), (371, 33954), (382, 33963), (424, 34044), (468, 34137), (504, 34197), (512, 34209), (513, 34212), (529, 34239), (539, 34263), (560, 34290), (590, 34326), (592, 34329), (609, 34365), (625, 34401), (675, 34470), (682, 34485), (708, 34503), (727, 34572), (730, 34581), (740, 34620), (745, 34638), (755, 34659), (762, 34674),

Gene: TClif_45 Start: 33489, Stop: 34589, Start Num: 163

Candidate Starts for TClif_45:

(Start: 163 @33489 has 283 MA's), (231, 33615), (253, 33651), (337, 33789), (371, 33843), (429, 33927), (458, 33984), (465, 34008), (466, 34011), (491, 34053), (556, 34161), (592, 34212), (616, 34263), (618, 34266), (651, 34311), (659, 34326), (715, 34401), (726, 34449), (757, 34545),

Gene: TNguyen7_33 Start: 26286, Stop: 25138, Start Num: 133

Candidate Starts for TNguyen7_33:

(Start: 133 @26286 has 2 MA's), (Start: 140 @26277 has 3 MA's), (Start: 218 @26142 has 6 MA's), (243, 26097), (337, 25941), (348, 25920), (350, 25914), (393, 25878), (424, 25821), (464, 25743), (540, 25608), (551, 25590), (559, 25578), (592, 25539), (609, 25503), (613, 25497), (622, 25476), (629, 25461), (639, 25443), (657, 25416), (718, 25305), (731, 25257), (738, 25227), (740, 25221), (743, 25209), (761, 25170),

Gene: TPA4_37 Start: 32608, Stop: 31376, Start Num: 147

Candidate Starts for TPA4_37:

(Start: 142 @32614 has 4 MA's), (Start: 147 @32608 has 63 MA's), (387, 32161), (408, 32116), (478, 32005), (512, 31960), (547, 31879), (563, 31855), (568, 31849), (581, 31831), (624, 31741), (666, 31654), (696, 31603), (707, 31582), (714, 31570), (738, 31471), (743, 31453), (757, 31426),

Gene: TZGordon_39 Start: 27285, Stop: 26170, Start Num: 174

Candidate Starts for TZGordon_39:

(Start: 174 @27285 has 12 MA's), (351, 26946), (375, 26913), (532, 26619), (544, 26607), (645, 26427), (734, 26256), (740, 26229),

Gene: Tachez_41 Start: 32439, Stop: 33527, Start Num: 163

Candidate Starts for Tachez_41:

(Start: 163 @32439 has 283 MA's), (190, 32490), (Start: 218 @32541 has 6 MA's), (231, 32565), (253, 32601), (337, 32739), (371, 32793), (429, 32877), (465, 32946), (466, 32949), (556, 33099), (603, 33177), (618, 33204), (675, 33291), (715, 33339),

Gene: TaiwanKao_43 Start: 32721, Stop: 33809, Start Num: 163

Candidate Starts for TaiwanKao_43:

(Start: 163 @32721 has 283 MA's), (Start: 218 @32823 has 6 MA's), (231, 32847), (253, 32883), (371, 33075), (429, 33159), (465, 33228), (466, 33231), (556, 33381), (603, 33459), (618, 33486), (715, 33621), (757, 33765),

Gene: Taj_45 Start: 32606, Stop: 33709, Start Num: 163

Candidate Starts for Taj_45:

(Start: 163 @32606 has 283 MA's), (190, 32654), (232, 32735), (247, 32762), (371, 32975), (396, 32999), (424, 33047), (465, 33128), (506, 33197), (512, 33206), (529, 33236), (539, 33260), (556, 33281), (603, 33359), (613, 33374), (654, 33434), (675, 33473), (682, 33488), (705, 33512), (717, 33539), (723, 33563), (727, 33584), (730, 33593), (742, 33638), (745, 33650),

Gene: TarsusIV_33 Start: 26409, Stop: 25285, Start Num: 152

Candidate Starts for TarsusIV_33:

(Start: 106 @26469 has 1 MA's), (Start: 118 @26451 has 1 MA's), (Start: 152 @26409 has 119 MA's), (Start: 218 @26286 has 6 MA's), (243, 26241), (337, 26085), (350, 26058), (393, 26022), (424, 25965), (464, 25887), (486, 25854), (491, 25842), (503, 25824), (551, 25734), (554, 25731), (559, 25722), (609, 25647), (622, 25620), (629, 25605), (639, 25587), (718, 25449), (731, 25401), (732, 25398), (738, 25371), (740, 25365), (743, 25353), (761, 25314),

Gene: Taurus_36 Start: 26750, Stop: 25644, Start Num: 180

Candidate Starts for Taurus_36:

(Start: 152 @26789 has 119 MA's), (Start: 180 @26750 has 10 MA's), (205, 26702), (Start: 218 @26666 has 6 MA's), (243, 26621), (337, 26465), (350, 26438), (393, 26402), (424, 26345), (464, 26267), (477, 26243), (503, 26204), (540, 26132), (546, 26120), (551, 26114), (559, 26102), (609, 26027), (613, 26021), (622, 26000), (629, 25985), (639, 25967), (655, 25943), (718, 25829), (730,

25784), (731, 25781), (734, 25772), (738, 25751), (740, 25745), (743, 25733), (761, 25694),

Gene: TaylorSipt_34 Start: 24061, Stop: 22877, Start Num: 147

Candidate Starts for TaylorSipt_34:

(Start: 147 @24061 has 63 MA's), (341, 23707), (370, 23644), (379, 23632), (390, 23617), (468, 23464), (555, 23323), (570, 23302), (620, 23209), (624, 23197), (719, 23035), (722, 23026),

Gene: Tayonia_39 Start: 30563, Stop: 31645, Start Num: 159

Candidate Starts for Tayonia_39:

(Start: 86 @30452 has 6 MA's), (Start: 159 @30563 has 52 MA's), (190, 30617), (261, 30737), (423, 30992), (438, 31022), (466, 31082), (506, 31148), (519, 31172), (723, 31502), (729, 31529), (766, 31634),

Gene: ThankyouJordi_38 Start: 31428, Stop: 32621, Start Num: 86

Candidate Starts for ThankyouJordi_38:

(Start: 86 @31428 has 6 MA's), (Start: 159 @31539 has 52 MA's), (190, 31593), (261, 31713), (438, 31998), (466, 32058), (506, 32124), (519, 32148), (723, 32478), (729, 32505), (766, 32610),

Gene: ThayneTheZag_40 Start: 27570, Stop: 26437, Start Num: 163

Candidate Starts for ThayneTheZag_40:

(Start: 163 @27570 has 283 MA's), (190, 27519), (289, 27351), (299, 27333), (361, 27219), (388, 27201), (424, 27123), (465, 27036), (470, 27027), (506, 26967), (543, 26898), (557, 26877), (641, 26727), (645, 26724), (682, 26658), (717, 26607), (723, 26583), (726, 26568), (740, 26514), (746, 26493), (761, 26463),

Gene: ThayneTheZag_36 Start: 24729, Stop: 25649, Start Num: 279

Candidate Starts for ThayneTheZag_36:

(Start: 279 @24729 has 58 MA's), (380, 24903), (387, 24915), (445, 25050), (451, 25062), (464, 25071), (490, 25110), (521, 25155), (534, 25176), (535, 25179), (537, 25185), (558, 25218), (595, 25260), (599, 25269), (662, 25395), (720, 25491), (726, 25515), (730, 25530),

Gene: Thibault_69 Start: 48145, Stop: 49374, Start Num: 85

Candidate Starts for Thibault_69:

(Start: 85 @48145 has 29 MA's), (Start: 91 @48163 has 1 MA's), (Start: 112 @48202 has 1 MA's), (Start: 254 @48439 has 1 MA's), (318, 48547), (418, 48667), (419, 48670), (423, 48679), (429, 48694), (447, 48733), (491, 48811), (562, 48928), (575, 48931), (582, 48940), (607, 48991), (609, 48994), (619, 49012), (672, 49108), (709, 49165), (737, 49285), (738, 49288), (745, 49312), (757, 49336), (759, 49339),

Gene: Thimann_36 Start: 28027, Stop: 29154, Start Num: 163

Candidate Starts for Thimann_36:

(53, 27808), (62, 27844), (Start: 163 @28027 has 283 MA's), (190, 28081), (276, 28237), (321, 28327), (343, 28360), (465, 28555), (466, 28558), (491, 28600), (513, 28636), (700, 28933), (723, 29011), (734, 29053), (740, 29080), (766, 29143),

Gene: Thimann_34 Start: 26659, Stop: 27576, Start Num: 279

Candidate Starts for Thimann_34:

(Start: 275 @26653 has 15 MA's), (Start: 279 @26659 has 58 MA's), (393, 26848), (396, 26854), (438, 26956), (448, 26980), (491, 27040), (533, 27097), (535, 27103), (537, 27109), (612, 27223), (615, 27229), (621, 27241), (662, 27316), (675, 27340), (676, 27343), (711, 27379), (714, 27385), (716, 27397), (742, 27499),

Gene: ThreeRngTarjay_79 Start: 53224, Stop: 54453, Start Num: 85

Candidate Starts for ThreeRngTarjay_79:

(Start: 85 @53224 has 29 MA's), (Start: 91 @53242 has 1 MA's), (Start: 112 @53281 has 1 MA's), (Start: 254 @53518 has 1 MA's), (318, 53626), (418, 53746), (419, 53749), (423, 53758), (429, 53773), (447, 53812), (491, 53890), (556, 53995), (562, 54007), (575, 54010), (582, 54019), (607, 54070), (609, 54073), (619, 54091), (672, 54187), (709, 54244), (737, 54364), (738, 54367), (745, 54391), (757, 54415), (759, 54418),

Gene: ThulaThula_35 Start: 29873, Stop: 28671, Start Num: 156

Candidate Starts for ThulaThula_35:

(Start: 156 @29873 has 17 MA's), (199, 29798), (211, 29768), (220, 29744), (274, 29663), (335, 29549), (364, 29486), (432, 29351), (482, 29270), (519, 29207), (558, 29141), (660, 28964), (662, 28961), (663, 28958), (677, 28937), (697, 28901), (699, 28898), (715, 28868), (723, 28835), (726, 28820), (744, 28754), (759, 28733),

Gene: Tiff81_34 Start: 21991, Stop: 22911, Start Num: 279

Candidate Starts for Tiff81_34:

(208, 21862), (Start: 279 @21991 has 58 MA's), (342, 22105), (380, 22165), (387, 22177), (451, 22324), (490, 22372), (521, 22417), (535, 22441), (537, 22447), (600, 22534), (625, 22591), (662, 22657), (676, 22684), (726, 22777), (730, 22792), (762, 22882),

Gene: Tiff81_37 Start: 24880, Stop: 23702, Start Num: 163

Candidate Starts for Tiff81_37:

(Start: 163 @24880 has 283 MA's), (221, 24763), (253, 24715), (299, 24643), (350, 24547), (388, 24511), (418, 24448), (424, 24433), (465, 24346), (470, 24337), (506, 24277), (533, 24229), (620, 24082), (622, 24076), (645, 24034), (717, 23917), (722, 23896), (723, 23893), (726, 23878), (768, 23758),

Gene: Tiffany_36 Start: 26675, Stop: 25530, Start Num: 152

Candidate Starts for Tiffany_36:

(Start: 152 @26675 has 119 MA's), (Start: 180 @26636 has 10 MA's), (205, 26588), (Start: 218 @26552 has 6 MA's), (243, 26507), (337, 26351), (350, 26324), (393, 26288), (424, 26231), (464, 26153), (477, 26129), (503, 26090), (540, 26018), (546, 26006), (551, 26000), (559, 25988), (609, 25913), (613, 25907), (622, 25886), (629, 25871), (639, 25853), (655, 25829), (718, 25715), (730, 25670), (731, 25667), (734, 25658), (738, 25637), (740, 25631), (743, 25619), (761, 25580),

Gene: TimTam_39 Start: 32012, Stop: 33094, Start Num: 159

Candidate Starts for TimTam_39:

(Start: 86 @31901 has 6 MA's), (Start: 159 @32012 has 52 MA's), (190, 32066), (261, 32186), (419, 32432), (423, 32441), (438, 32471), (466, 32531), (506, 32597), (519, 32621), (723, 32951), (729, 32978), (766, 33083),

Gene: TinaFeyge_33 Start: 26292, Stop: 25126, Start Num: 116

Candidate Starts for TinaFeyge_33:

(Start: 116 @26292 has 3 MA's), (135, 26265), (Start: 152 @26247 has 119 MA's), (Start: 195 @26178 has 8 MA's), (Start: 218 @26124 has 6 MA's), (346, 25905), (350, 25896), (393, 25860), (418, 25818), (423, 25806), (424, 25803), (464, 25725), (540, 25590), (551, 25572), (609, 25485), (622, 25458), (629, 25443), (639, 25425), (718, 25287), (731, 25239), (738, 25209), (740, 25203), (743, 25191), (761, 25152),

Gene: TinaLin_36 Start: 26813, Stop: 25707, Start Num: 174

Candidate Starts for TinaLin_36:

(Start: 174 @26813 has 12 MA's), (215, 26726), (347, 26492), (390, 26429), (397, 26417), (415, 26366), (504, 26204), (532, 26156), (615, 26027), (637, 25979), (690, 25883), (734, 25793), (740,

25766),

Gene: TiniBug_42 Start: 33372, Stop: 34460, Start Num: 163

Candidate Starts for TiniBug_42:

(51, 33150), (Start: 163 @33372 has 283 MA's), (190, 33423), (Start: 218 @33474 has 6 MA's), (231, 33498), (253, 33534), (319, 33648), (371, 33726), (429, 33810), (465, 33879), (466, 33882), (556, 34032), (618, 34137), (715, 34272), (757, 34416),

Gene: TopsytheTRex_33 Start: 25948, Stop: 24836, Start Num: 152

Candidate Starts for TopsytheTRex_33:

(Start: 152 @25948 has 119 MA's), (200, 25870), (Start: 218 @25825 has 6 MA's), (243, 25780), (284, 25720), (350, 25597), (393, 25561), (423, 25507), (424, 25504), (491, 25381), (493, 25378), (503, 25363), (546, 25279), (551, 25273), (609, 25198), (622, 25171), (629, 25156), (639, 25138), (657, 25111), (718, 25000), (731, 24952), (732, 24949), (734, 24943), (738, 24922), (740, 24916), (743, 24904), (761, 24865), (764, 24856),

Gene: Tiri_42 Start: 32775, Stop: 33863, Start Num: 163

Candidate Starts for Tiri_42:

(Start: 163 @32775 has 283 MA's), (Start: 218 @32877 has 6 MA's), (231, 32901), (253, 32937), (337, 33075), (371, 33129), (429, 33213), (465, 33282), (466, 33285), (556, 33435), (618, 33540), (675, 33627), (715, 33675), (757, 33819),

Gene: Toad24_36 Start: 25330, Stop: 24146, Start Num: 147

Candidate Starts for Toad24_36:

(Start: 147 @25330 has 63 MA's), (263, 25111), (Start: 275 @25093 has 15 MA's), (341, 24976), (379, 24901), (570, 24571), (620, 24478), (624, 24466), (633, 24448), (714, 24331), (722, 24295),

Gene: Tomathan_37 Start: 26420, Stop: 25350, Start Num: 188

Candidate Starts for Tomathan_37:

(Start: 152 @26474 has 119 MA's), (Start: 188 @26420 has 14 MA's), (Start: 218 @26351 has 6 MA's), (337, 26150), (350, 26123), (393, 26087), (423, 26033), (424, 26030), (438, 26003), (464, 25952), (486, 25919), (491, 25907), (503, 25889), (551, 25799), (559, 25787), (592, 25748), (609, 25712), (613, 25706), (622, 25685), (629, 25670), (639, 25652), (657, 25625), (718, 25514), (731, 25466), (732, 25463), (738, 25436), (740, 25430), (743, 25418), (761, 25379),

Gene: Topper_41 Start: 32595, Stop: 33683, Start Num: 163

Candidate Starts for Topper_41:

(16, 31992), (24, 32169), (41, 32334), (51, 32373), (Start: 163 @32595 has 283 MA's), (190, 32646), (Start: 218 @32697 has 6 MA's), (231, 32721), (253, 32757), (337, 32895), (429, 33033), (465, 33102), (466, 33105), (556, 33255), (618, 33360), (715, 33495),

Gene: Torres_39 Start: 34239, Stop: 35684, Start Num: 30

Candidate Starts for Torres_39:

(30, 34239), (Start: 32 @34254 has 1 MA's), (45, 34347), (51, 34368), (82, 34461), (Start: 163 @34590 has 283 MA's), (190, 34641), (231, 34716), (253, 34752), (310, 34848), (319, 34866), (337, 34890), (367, 34938), (371, 34944), (452, 35076), (465, 35109), (491, 35154), (556, 35262), (618, 35367), (659, 35427), (715, 35502), (742, 35610), (757, 35646),

Gene: Tortellini_32 Start: 30878, Stop: 29682, Start Num: 147

Candidate Starts for Tortellini_32:

(Start: 147 @30878 has 63 MA's), (Start: 275 @30632 has 15 MA's), (292, 30599), (361, 30461), (364, 30455), (376, 30446), (387, 30434), (403, 30404), (443, 30305), (497, 30233), (511, 30212), (529, 30179), (549, 30128), (554, 30122), (611, 30029), (649, 29954), (660, 29933), (709, 29876), (714,

29867), (719, 29840), (723, 29828), (734, 29789), (748, 29735), (761, 29714),

Gene: TouchMeNot_32 Start: 30114, Stop: 28903, Start Num: 142

Candidate Starts for TouchMeNot_32:

(Start: 142 @30114 has 4 MA's), (231, 29940), (304, 29799), (395, 29640), (467, 29490), (517, 29400), (663, 29136), (685, 29100), (688, 29094), (756, 28929), (763, 28914), (765, 28911),

Gene: Travvers_37 Start: 26420, Stop: 25350, Start Num: 188

Candidate Starts for Travvers_37:

(Start: 152 @26474 has 119 MA's), (Start: 188 @26420 has 14 MA's), (Start: 218 @26351 has 6 MA's), (337, 26150), (339, 26147), (350, 26123), (393, 26087), (424, 26030), (438, 26003), (464, 25952), (486, 25919), (491, 25907), (503, 25889), (540, 25817), (551, 25799), (559, 25787), (609, 25712), (613, 25706), (622, 25685), (629, 25670), (639, 25652), (657, 25625), (718, 25514), (731, 25466), (732, 25463), (738, 25436), (740, 25430), (743, 25418), (761, 25379),

Gene: Trax_8 Start: 3425, Stop: 2322, Start Num: 174

Candidate Starts for Trax_8:

(161, 3452), (Start: 174 @3425 has 12 MA's), (183, 3413), (204, 3359), (213, 3344), (220, 3320), (236, 3293), (306, 3167), (353, 3095), (397, 3032), (402, 3020), (415, 2981), (461, 2897), (472, 2876), (520, 2789), (572, 2720), (580, 2708), (630, 2612), (641, 2588), (673, 2528), (696, 2492), (717, 2477), (726, 2438), (736, 2396),

Gene: TreyKay_42 Start: 32665, Stop: 33753, Start Num: 163

Candidate Starts for TreyKay_42:

(73, 32518), (Start: 163 @32665 has 283 MA's), (Start: 218 @32767 has 6 MA's), (231, 32791), (253, 32827), (337, 32965), (371, 33019), (429, 33103), (465, 33172), (466, 33175), (556, 33325), (618, 33430), (675, 33517), (715, 33565), (757, 33709),

Gene: TripleJ_37 Start: 28096, Stop: 26960, Start Num: 191

Candidate Starts for TripleJ_37:

(Start: 191 @28096 has 2 MA's), (219, 28030), (272, 27955), (286, 27934), (291, 27925), (307, 27889), (319, 27868), (358, 27805), (416, 27748), (423, 27730), (440, 27694), (454, 27664), (462, 27649), (468, 27637), (480, 27616), (502, 27580), (504, 27577), (515, 27556), (536, 27514), (538, 27511), (552, 27487), (579, 27448), (590, 27430), (644, 27322), (672, 27271), (726, 27130), (728, 27121), (745, 27058), (777, 26989), (782, 26983),

Gene: Trixie_35 Start: 27323, Stop: 26259, Start Num: 188

Candidate Starts for Trixie_35:

(Start: 152 @27377 has 119 MA's), (Start: 188 @27323 has 14 MA's), (Start: 218 @27254 has 6 MA's), (243, 27209), (337, 27053), (343, 27041), (350, 27026), (393, 26990), (418, 26948), (423, 26936), (424, 26933), (429, 26921), (464, 26855), (486, 26822), (503, 26792), (551, 26702), (554, 26699), (559, 26690), (582, 26669), (609, 26615), (622, 26588), (629, 26573), (639, 26555), (718, 26417), (731, 26369), (732, 26366), (738, 26339), (740, 26333), (743, 26321), (761, 26282),

Gene: Trooper_35 Start: 26605, Stop: 25538, Start Num: 188

Candidate Starts for Trooper_35:

(Start: 103 @26722 has 3 MA's), (Start: 152 @26659 has 119 MA's), (Start: 188 @26605 has 14 MA's), (Start: 218 @26536 has 6 MA's), (243, 26491), (337, 26335), (393, 26272), (429, 26203), (448, 26161), (464, 26137), (503, 26074), (551, 25984), (559, 25972), (609, 25897), (613, 25891), (622, 25870), (629, 25855), (639, 25837), (657, 25810), (718, 25699), (730, 25654), (731, 25651), (732, 25648), (738, 25621), (740, 25615), (743, 25603), (761, 25564),

Gene: Troy_27 Start: 25228, Stop: 23900, Start Num: 89

Candidate Starts for Troy_27:

(Start: 89 @25228 has 3 MA's), (Start: 106 @25192 has 1 MA's), (Start: 112 @25183 has 1 MA's), (Start: 151 @25126 has 3 MA's), (277, 24916), (Start: 279 @24913 has 58 MA's), (333, 24814), (343, 24796), (385, 24730), (390, 24724), (396, 24712), (475, 24547), (503, 24502), (515, 24481), (521, 24469), (535, 24445), (548, 24421), (553, 24415), (577, 24379), (624, 24283), (654, 24226), (676, 24181), (692, 24157), (714, 24142), (729, 24076), (730, 24073), (736, 24046), (742, 24028), (769, 23968), (793, 23914),

Gene: TroyPia_33 Start: 26250, Stop: 25129, Start Num: 152

Candidate Starts for TroyPia_33:

(Start: 116 @26295 has 3 MA's), (135, 26268), (Start: 152 @26250 has 119 MA's), (Start: 195 @26181 has 8 MA's), (Start: 218 @26127 has 6 MA's), (346, 25908), (350, 25899), (393, 25863), (418, 25821), (423, 25809), (424, 25806), (464, 25728), (540, 25593), (551, 25575), (609, 25488), (622, 25461), (629, 25446), (639, 25428), (718, 25290), (731, 25242), (738, 25212), (740, 25206), (743, 25194), (761, 25155),

Gene: TruffulaTree_41 Start: 32473, Stop: 33561, Start Num: 163

Candidate Starts for TruffulaTree_41:

(Start: 163 @32473 has 283 MA's), (190, 32524), (Start: 218 @32575 has 6 MA's), (231, 32599), (253, 32635), (337, 32773), (371, 32827), (429, 32911), (465, 32980), (466, 32983), (556, 33133), (603, 33211), (618, 33238), (675, 33325), (715, 33373),

Gene: Trumpet_39 Start: 30564, Stop: 31646, Start Num: 159

Candidate Starts for Trumpet_39:

(Start: 86 @30453 has 6 MA's), (Start: 159 @30564 has 52 MA's), (190, 30618), (261, 30738), (423, 30993), (438, 31023), (466, 31083), (506, 31149), (519, 31173), (723, 31503), (729, 31530), (766, 31635),

Gene: TuertoX_37 Start: 27875, Stop: 28957, Start Num: 159

Candidate Starts for TuertoX_37:

(Start: 83 @27758 has 2 MA's), (Start: 86 @27764 has 6 MA's), (Start: 159 @27875 has 52 MA's), (190, 27929), (261, 28049), (423, 28304), (438, 28334), (466, 28394), (506, 28460), (519, 28484), (590, 28589), (723, 28814), (729, 28841), (766, 28946),

Gene: Turbido_34 Start: 26644, Stop: 25511, Start Num: 138

Candidate Starts for Turbido_34:

(Start: 123 @26662 has 7 MA's), (Start: 138 @26644 has 7 MA's), (Start: 195 @26560 has 8 MA's), (Start: 218 @26512 has 6 MA's), (243, 26467), (350, 26284), (393, 26248), (424, 26191), (429, 26179), (438, 26164), (486, 26080), (491, 26068), (503, 26050), (551, 25960), (559, 25948), (609, 25873), (613, 25867), (622, 25846), (629, 25831), (639, 25813), (657, 25786), (718, 25675), (731, 25627), (732, 25624), (738, 25597), (740, 25591), (743, 25579), (761, 25540),

Gene: TurkishDelight_52 Start: 44050, Stop: 45588, Start Num: 39

Candidate Starts for TurkishDelight_52:

(12, 43657), (28, 43954), (Start: 39 @44050 has 1 MA's), (66, 44173), (148, 44323), (164, 44344), (203, 44425), (277, 44578), (293, 44611), (295, 44614), (356, 44731), (414, 44851), (431, 44884), (439, 44905), (466, 44947), (530, 45058), (558, 45106), (580, 45124), (591, 45142), (604, 45172), (684, 45325), (702, 45358), (718, 45400), (734, 45457), (750, 45514), (772, 45550), (779, 45568),

Gene: Twinkle_35 Start: 31824, Stop: 32741, Start Num: 279

Candidate Starts for Twinkle_35:

(Start: 275 @31818 has 15 MA's), (Start: 279 @31824 has 58 MA's), (387, 32004), (393, 32013), (396, 32019), (483, 32190), (491, 32205), (533, 32262), (535, 32268), (537, 32274), (546, 32289), (612,

32388), (615, 32394), (621, 32406), (662, 32481), (675, 32505), (676, 32508), (711, 32544), (714, 32550), (716, 32562), (742, 32664),

Gene: Twinkle_39 Start: 33608, Stop: 34735, Start Num: 163

Candidate Starts for Twinkle_39:

(129, 33569), (Start: 163 @33608 has 283 MA's), (190, 33662), (250, 33785), (276, 33818), (321, 33908), (343, 33941), (465, 34136), (466, 34139), (491, 34181), (513, 34217), (700, 34514), (723, 34592), (729, 34619), (734, 34634), (740, 34661), (766, 34724),

Gene: Twitch_41 Start: 32597, Stop: 33685, Start Num: 163

Candidate Starts for Twitch_41:

(16, 31994), (24, 32171), (41, 32336), (51, 32375), (Start: 163 @32597 has 283 MA's), (190, 32648), (Start: 218 @32699 has 6 MA's), (231, 32723), (253, 32759), (337, 32897), (429, 33035), (465, 33104), (466, 33107), (556, 33257), (618, 33362), (715, 33497),

Gene: Ubuntu_29 Start: 26478, Stop: 25285, Start Num: 171

Candidate Starts for Ubuntu_29:

(Start: 145 @26520 has 2 MA's), (Start: 171 @26478 has 20 MA's), (205, 26412), (244, 26331), (263, 26292), (274, 26277), (277, 26271), (282, 26259), (297, 26232), (314, 26199), (350, 26142), (362, 26109), (364, 26106), (396, 26058), (410, 26016), (411, 26013), (422, 25989), (431, 25974), (441, 25950), (449, 25935), (476, 25896), (487, 25884), (507, 25845), (530, 25806), (558, 25758), (560, 25755), (609, 25683), (613, 25677), (618, 25665), (620, 25662), (622, 25656), (649, 25602), (658, 25584), (660, 25581), (677, 25554), (686, 25536), (689, 25530), (691, 25527), (715, 25485), (721, 25458), (723, 25452), (736, 25395), (764, 25332), (766, 25329),

Gene: Updawg_35 Start: 26811, Stop: 25678, Start Num: 152

Candidate Starts for Updawg_35:

(Start: 152 @26811 has 119 MA's), (Start: 188 @26757 has 14 MA's), (Start: 218 @26688 has 6 MA's), (243, 26643), (337, 26487), (350, 26460), (393, 26424), (424, 26367), (491, 26244), (503, 26226), (551, 26136), (559, 26124), (609, 26049), (613, 26043), (622, 26022), (629, 26007), (639, 25989), (657, 25962), (659, 25953), (718, 25851), (731, 25803), (738, 25773), (740, 25767), (743, 25755), (761, 25716),

Gene: Urkel_42 Start: 33376, Stop: 34464, Start Num: 163

Candidate Starts for Urkel_42:

(51, 33154), (Start: 163 @33376 has 283 MA's), (190, 33427), (Start: 218 @33478 has 6 MA's), (231, 33502), (253, 33538), (319, 33652), (371, 33730), (429, 33814), (465, 33883), (466, 33886), (556, 34036), (618, 34141), (715, 34276), (757, 34420),

Gene: Utz_31 Start: 28505, Stop: 29425, Start Num: 279

Candidate Starts for Utz_31:

(Start: 275 @28499 has 15 MA's), (Start: 279 @28505 has 58 MA's), (346, 28622), (348, 28625), (390, 28688), (393, 28694), (396, 28700), (438, 28802), (491, 28886), (531, 28940), (533, 28943), (535, 28949), (546, 28970), (612, 29069), (621, 29087), (662, 29162), (676, 29189), (711, 29225), (730, 29300),

Gene: VA6_33 Start: 26411, Stop: 25287, Start Num: 152

Candidate Starts for VA6_33:

(Start: 110 @26465 has 1 MA's), (Start: 152 @26411 has 119 MA's), (Start: 188 @26357 has 14 MA's), (Start: 218 @26288 has 6 MA's), (337, 26087), (350, 26060), (393, 26024), (423, 25970), (424, 25967), (438, 25940), (464, 25889), (486, 25856), (491, 25844), (503, 25826), (540, 25754), (551, 25736), (559, 25724), (592, 25685), (609, 25649), (613, 25643), (622, 25622), (629, 25607), (639, 25589), (657, 25562), (718, 25451), (731, 25403), (732, 25400), (738, 25373), (740, 25367), (743,

25355), (761, 25316),

Gene: VC3_36 Start: 26399, Stop: 25275, Start Num: 152

Candidate Starts for VC3_36:

(Start: 110 @26453 has 1 MA's), (Start: 152 @26399 has 119 MA's), (Start: 188 @26345 has 14 MA's), (Start: 218 @26276 has 6 MA's), (337, 26075), (350, 26048), (393, 26012), (423, 25958), (424, 25955), (438, 25928), (464, 25877), (486, 25844), (491, 25832), (503, 25814), (540, 25742), (551, 25724), (559, 25712), (592, 25673), (609, 25637), (613, 25631), (622, 25610), (629, 25595), (639, 25577), (657, 25550), (718, 25439), (731, 25391), (732, 25388), (738, 25361), (740, 25355), (743, 25343), (761, 25304),

Gene: VRedHorse_42 Start: 32159, Stop: 33286, Start Num: 163

Candidate Starts for VRedHorse_42:

(Start: 91 @32057 has 1 MA's), (Start: 123 @32114 has 7 MA's), (Start: 163 @32159 has 283 MA's), (168, 32168), (253, 32330), (281, 32381), (289, 32399), (310, 32444), (346, 32504), (371, 32540), (382, 32549), (438, 32654), (468, 32723), (504, 32783), (512, 32795), (513, 32798), (519, 32810), (529, 32825), (539, 32849), (543, 32855), (560, 32876), (590, 32912), (592, 32915), (609, 32951), (613, 32957), (620, 32972), (625, 32987), (675, 33056), (682, 33071), (717, 33113), (727, 33158), (730, 33167), (740, 33206), (745, 33224), (755, 33245), (762, 33260), (766, 33269), (768, 33272),

Gene: VWB_31 Start: 27412, Stop: 26129, Start Num: 106

Candidate Starts for VWB_31:

(Start: 106 @27412 has 1 MA's), (127, 27379), (Start: 154 @27346 has 3 MA's), (327, 27001), (350, 26962), (370, 26926), (383, 26914), (430, 26815), (451, 26767), (518, 26659), (524, 26650), (595, 26542), (631, 26464), (679, 26371), (696, 26347), (715, 26329), (718, 26311), (725, 26287), (733, 26257), (734, 26254), (739, 26230), (742, 26221), (749, 26197), (756, 26185), (762, 26173), (781, 26134),

Gene: Validus_45 Start: 33099, Stop: 34196, Start Num: 163

Candidate Starts for Validus_45:

(Start: 163 @33099 has 283 MA's), (231, 33225), (253, 33261), (319, 33375), (371, 33453), (429, 33537), (465, 33618), (466, 33621), (491, 33663), (539, 33750), (556, 33771), (618, 33876), (659, 33936), (710, 33999), (757, 34155),

Gene: VanLee_32 Start: 27924, Stop: 26788, Start Num: 149

Candidate Starts for VanLee_32:

(Start: 149 @27924 has 1 MA's), (Start: 182 @27870 has 4 MA's), (189, 27852), (263, 27702), (302, 27630), (379, 27489), (387, 27477), (390, 27474), (396, 27462), (423, 27393), (511, 27291), (512, 27288), (529, 27258), (667, 27015), (670, 27012), (711, 26976), (717, 26955), (764, 26808),

Gene: Vasanti_37 Start: 29057, Stop: 27888, Start Num: 147

Candidate Starts for Vasanti_37:

(Start: 147 @29057 has 63 MA's), (Start: 275 @28814 has 15 MA's), (315, 28733), (338, 28697), (344, 28685), (366, 28643), (370, 28637), (379, 28625), (387, 28613), (423, 28529), (429, 28520), (432, 28514), (443, 28484), (511, 28415), (512, 28412), (529, 28382), (558, 28331), (609, 28259), (623, 28229), (714, 28097), (716, 28085), (738, 27998), (741, 27989), (761, 27944), (778, 27905),

Gene: Veliki_41 Start: 32513, Stop: 33601, Start Num: 163

Candidate Starts for Veliki_41:

(Start: 163 @32513 has 283 MA's), (190, 32564), (Start: 218 @32615 has 6 MA's), (231, 32639), (253, 32675), (337, 32813), (371, 32867), (429, 32951), (465, 33020), (466, 33023), (556, 33173), (603, 33251), (618, 33278), (675, 33365), (715, 33413),

Gene: Velveteen_37 Start: 27903, Stop: 29021, Start Num: 163

Candidate Starts for Velveteen_37:

(Start: 163 @27903 has 283 MA's), (253, 28074), (346, 28239), (371, 28275), (382, 28284), (424, 28365), (438, 28389), (468, 28458), (491, 28497), (501, 28515), (504, 28518), (512, 28530), (513, 28533), (519, 28545), (529, 28560), (539, 28584), (543, 28590), (560, 28611), (590, 28647), (592, 28650), (609, 28686), (613, 28692), (618, 28704), (620, 28707), (625, 28722), (675, 28791), (682, 28806), (717, 28848), (727, 28893), (730, 28902), (740, 28941), (745, 28959), (755, 28980), (762, 28995), (766, 29004), (768, 29007),

Gene: Vendetta_37 Start: 27965, Stop: 26850, Start Num: 174

Candidate Starts for Vendetta_37:

(129, 28034), (Start: 174 @27965 has 12 MA's), (351, 27626), (375, 27593), (532, 27299), (544, 27287), (568, 27254), (645, 27107), (734, 26936), (740, 26909),

Gene: Vix_36 Start: 26872, Stop: 25727, Start Num: 152

Candidate Starts for Vix_36:

(Start: 152 @26872 has 119 MA's), (Start: 180 @26833 has 10 MA's), (205, 26785), (Start: 218 @26749 has 6 MA's), (243, 26704), (337, 26548), (350, 26521), (393, 26485), (424, 26428), (464, 26350), (477, 26326), (503, 26287), (540, 26215), (546, 26203), (551, 26197), (559, 26185), (609, 26110), (613, 26104), (622, 26083), (629, 26068), (639, 26050), (655, 26026), (718, 25912), (730, 25867), (731, 25864), (734, 25855), (738, 25834), (740, 25828), (743, 25816), (761, 25777),

Gene: Vopal_39 Start: 27391, Stop: 28311, Start Num: 279

Candidate Starts for Vopal_39:

(Start: 254 @27349 has 1 MA's), (Start: 279 @27391 has 58 MA's), (365, 27547), (380, 27565), (387, 27577), (451, 27724), (490, 27772), (521, 27817), (531, 27832), (535, 27841), (537, 27847), (546, 27862), (558, 27880), (595, 27922), (599, 27931), (618, 27973), (662, 28057), (676, 28084), (730, 28192), (762, 28282),

Gene: Vopal_43 Start: 30649, Stop: 29477, Start Num: 163

Candidate Starts for Vopal_43:

(Start: 163 @30649 has 283 MA's), (190, 30598), (289, 30430), (299, 30412), (324, 30361), (388, 30280), (424, 30202), (429, 30190), (465, 30115), (470, 30106), (506, 30046), (557, 29956), (620, 29851), (630, 29830), (641, 29806), (645, 29803), (689, 29734), (717, 29680), (723, 29656), (726, 29641), (770, 29521), (783, 29494),

Gene: Vulpecula_33 Start: 24379, Stop: 23195, Start Num: 147

Candidate Starts for Vulpecula_33:

(Start: 147 @24379 has 63 MA's), (263, 24160), (341, 24025), (379, 23950), (390, 23935), (501, 23734), (620, 23527), (624, 23515), (633, 23497), (640, 23482), (714, 23380), (719, 23353), (722, 23344),

Gene: Wachhund_44 Start: 32077, Stop: 33195, Start Num: 163

Candidate Starts for Wachhund_44:

(Start: 163 @32077 has 283 MA's), (168, 32086), (253, 32248), (346, 32413), (371, 32449), (382, 32458), (438, 32563), (468, 32632), (491, 32671), (504, 32692), (512, 32704), (513, 32707), (519, 32719), (539, 32758), (543, 32764), (560, 32785), (590, 32821), (592, 32824), (609, 32860), (613, 32866), (618, 32878), (620, 32881), (675, 32965), (682, 32980), (717, 33022), (727, 33067), (730, 33076), (740, 33115), (745, 33133), (755, 33154), (762, 33169), (766, 33178), (768, 33181),

Gene: Wanda_85 Start: 52091, Stop: 53320, Start Num: 85

Candidate Starts for Wanda_85:

(Start: 85 @52091 has 29 MA's), (Start: 91 @52109 has 1 MA's), (Start: 112 @52148 has 1 MA's), (Start: 254 @52385 has 1 MA's), (318, 52493), (418, 52613), (419, 52616), (423, 52625), (429, 52640), (447, 52679), (491, 52757), (556, 52862), (562, 52874), (575, 52877), (582, 52886), (607, 52937), (609, 52940), (619, 52958), (672, 53054), (709, 53111), (737, 53231), (738, 53234), (745, 53258), (757, 53282), (759, 53285),

Gene: Watson_36 Start: 26782, Stop: 25637, Start Num: 152

Candidate Starts for Watson_36:

(Start: 152 @26782 has 119 MA's), (Start: 180 @26743 has 10 MA's), (Start: 218 @26659 has 6 MA's), (243, 26614), (337, 26458), (350, 26431), (393, 26395), (424, 26338), (464, 26260), (477, 26236), (503, 26197), (540, 26125), (546, 26113), (551, 26107), (559, 26095), (609, 26020), (613, 26014), (622, 25993), (629, 25978), (639, 25960), (655, 25936), (718, 25822), (730, 25777), (731, 25774), (734, 25765), (738, 25744), (740, 25738), (743, 25726), (761, 25687),

Gene: Webster2_29 Start: 26478, Stop: 25285, Start Num: 171

Candidate Starts for Webster2_29:

(Start: 145 @26520 has 2 MA's), (Start: 171 @26478 has 20 MA's), (205, 26412), (244, 26331), (263, 26292), (274, 26277), (277, 26271), (282, 26259), (297, 26232), (314, 26199), (350, 26142), (362, 26109), (364, 26106), (396, 26058), (410, 26016), (411, 26013), (422, 25989), (431, 25974), (441, 25950), (449, 25935), (476, 25896), (487, 25884), (507, 25845), (530, 25806), (558, 25758), (560, 25755), (609, 25683), (613, 25677), (618, 25665), (620, 25662), (622, 25656), (649, 25602), (658, 25584), (660, 25581), (677, 25554), (686, 25536), (689, 25530), (691, 25527), (715, 25485), (721, 25458), (723, 25452), (736, 25395), (764, 25332), (766, 25329),

Gene: Wee_46 Start: 33180, Stop: 34283, Start Num: 163

Candidate Starts for Wee_46:

(Start: 163 @33180 has 283 MA's), (190, 33228), (232, 33309), (247, 33336), (371, 33549), (396, 33573), (424, 33621), (465, 33702), (506, 33771), (512, 33780), (529, 33810), (539, 33834), (556, 33855), (603, 33933), (613, 33948), (654, 34008), (675, 34047), (682, 34062), (705, 34086), (717, 34113), (723, 34137), (727, 34158), (730, 34167), (742, 34212), (745, 34224),

Gene: WeiHuaDA_38 Start: 28048, Stop: 26930, Start Num: 152

Candidate Starts for WeiHuaDA_38:

(Start: 152 @28048 has 119 MA's), (Start: 218 @27925 has 6 MA's), (243, 27880), (337, 27724), (350, 27697), (393, 27661), (424, 27604), (464, 27526), (486, 27493), (503, 27463), (551, 27373), (559, 27361), (588, 27328), (609, 27286), (622, 27259), (629, 27244), (639, 27226), (718, 27088), (731, 27040), (732, 27037), (738, 27010), (740, 27004), (743, 26992), (761, 26953),

Gene: WelcomeAyanna_38 Start: 31686, Stop: 32768, Start Num: 159

Candidate Starts for WelcomeAyanna_38:

(Start: 86 @31575 has 6 MA's), (Start: 159 @31686 has 52 MA's), (190, 31740), (261, 31860), (438, 32145), (466, 32205), (506, 32271), (519, 32295), (723, 32625), (729, 32652), (766, 32757),

Gene: Westrich_40 Start: 25013, Stop: 23829, Start Num: 147

Candidate Starts for Westrich_40:

(Start: 147 @25013 has 63 MA's), (263, 24794), (Start: 275 @24776 has 15 MA's), (341, 24659), (379, 24584), (570, 24254), (620, 24161), (624, 24149), (633, 24131), (714, 24014), (722, 23978),

Gene: Whabigail7_34 Start: 26650, Stop: 25499, Start Num: 123

Candidate Starts for Whabigail7_34:

(Start: 123 @26650 has 7 MA's), (Start: 138 @26632 has 7 MA's), (Start: 195 @26548 has 8 MA's), (Start: 218 @26500 has 6 MA's), (243, 26455), (350, 26272), (393, 26236), (424, 26179), (429, 26167), (438, 26152), (486, 26068), (491, 26056), (503, 26038), (551, 25948), (559, 25936), (609, 25861),

(613, 25855), (622, 25834), (629, 25819), (639, 25801), (657, 25774), (718, 25663), (731, 25615), (732, 25612), (738, 25585), (740, 25579), (743, 25567), (761, 25528),

Gene: Whatsapiecost_41 Start: 31324, Stop: 32442, Start Num: 163

Candidate Starts for Whatsapiecost_41:

(Start: 163 @31324 has 283 MA's), (232, 31462), (253, 31495), (284, 31543), (346, 31660), (371, 31696), (382, 31705), (438, 31810), (468, 31879), (504, 31939), (512, 31951), (513, 31954), (519, 31966), (529, 31981), (539, 32005), (543, 32011), (560, 32032), (590, 32068), (592, 32071), (609, 32107), (613, 32113), (618, 32125), (620, 32128), (675, 32212), (682, 32227), (717, 32269), (727, 32314), (730, 32323), (740, 32362), (745, 32380), (755, 32401), (762, 32416), (766, 32425), (768, 32428),

Gene: WheatThin_39 Start: 31322, Stop: 30051, Start Num: 147

Candidate Starts for WheatThin_39:

(Start: 147 @31322 has 63 MA's), (160, 31307), (206, 31205), (Start: 222 @31163 has 1 MA's), (230, 31151), (Start: 275 @31076 has 15 MA's), (312, 31001), (317, 30992), (328, 30974), (387, 30875), (390, 30872), (429, 30782), (511, 30677), (557, 30581), (560, 30575), (646, 30413), (716, 30272), (727, 30227), (741, 30176), (743, 30167), (748, 30152), (757, 30140), (762, 30128), (786, 30089),

Gene: Whiteclaw_37 Start: 27875, Stop: 28957, Start Num: 159

Candidate Starts for Whiteclaw_37:

(Start: 83 @27758 has 2 MA's), (Start: 86 @27764 has 6 MA's), (Start: 159 @27875 has 52 MA's), (190, 27929), (261, 28049), (423, 28304), (438, 28334), (466, 28394), (506, 28460), (519, 28484), (590, 28589), (723, 28814), (729, 28841), (766, 28946),

Gene: WideWale_35 Start: 26811, Stop: 25678, Start Num: 152

Candidate Starts for WideWale_35:

(Start: 152 @26811 has 119 MA's), (Start: 188 @26757 has 14 MA's), (Start: 218 @26688 has 6 MA's), (243, 26643), (337, 26487), (350, 26460), (393, 26424), (424, 26367), (491, 26244), (503, 26226), (551, 26136), (559, 26124), (609, 26049), (613, 26043), (622, 26022), (629, 26007), (639, 25989), (657, 25962), (659, 25953), (718, 25851), (731, 25803), (738, 25773), (740, 25767), (743, 25755), (761, 25716),

Gene: WillSterrel_41 Start: 32521, Stop: 33639, Start Num: 163

Candidate Starts for WillSterrel_41:

(Start: 163 @32521 has 283 MA's), (168, 32530), (253, 32692), (382, 32902), (424, 32983), (438, 33007), (468, 33076), (504, 33136), (512, 33148), (513, 33151), (519, 33163), (529, 33178), (539, 33202), (543, 33208), (560, 33229), (590, 33265), (592, 33268), (609, 33304), (613, 33310), (620, 33325), (675, 33409), (682, 33424), (717, 33466), (727, 33511), (730, 33520), (740, 33559), (745, 33577), (755, 33598), (762, 33613), (766, 33622), (768, 33625),

Gene: Windest_40 Start: 26669, Stop: 25497, Start Num: 163

Candidate Starts for Windest_40:

(Start: 163 @26669 has 283 MA's), (190, 26618), (289, 26450), (299, 26432), (388, 26300), (424, 26222), (429, 26210), (433, 26204), (465, 26135), (470, 26126), (506, 26066), (557, 25976), (630, 25850), (641, 25826), (645, 25823), (717, 25700), (723, 25676), (726, 25661), (770, 25541), (783, 25514),

Gene: WinkNick_41 Start: 29791, Stop: 30918, Start Num: 163

Candidate Starts for WinkNick_41:

(129, 29752), (Start: 163 @29791 has 283 MA's), (190, 29845), (250, 29968), (276, 30001), (321, 30091), (343, 30124), (465, 30319), (466, 30322), (491, 30364), (513, 30400), (700, 30697), (723, 30775), (729, 30802), (734, 30817), (740, 30844), (766, 30907),

Gene: WinkNick_38 Start: 28007, Stop: 28924, Start Num: 279

Candidate Starts for WinkNick_38:

(Start: 275 @28001 has 15 MA's), (Start: 279 @28007 has 58 MA's), (393, 28196), (396, 28202), (438, 28304), (448, 28328), (491, 28388), (533, 28445), (535, 28451), (537, 28457), (612, 28571), (615, 28577), (621, 28589), (662, 28664), (675, 28688), (676, 28691), (711, 28727), (714, 28733), (716, 28745), (742, 28847),

Gene: Wishmaker_29 Start: 26478, Stop: 25285, Start Num: 171

Candidate Starts for Wishmaker_29:

(Start: 145 @26520 has 2 MA's), (Start: 171 @26478 has 20 MA's), (205, 26412), (244, 26331), (263, 26292), (274, 26277), (277, 26271), (282, 26259), (297, 26232), (314, 26199), (350, 26142), (362, 26109), (364, 26106), (396, 26058), (410, 26016), (411, 26013), (422, 25989), (431, 25974), (441, 25950), (449, 25935), (476, 25896), (487, 25884), (507, 25845), (530, 25806), (558, 25758), (560, 25755), (609, 25683), (613, 25677), (618, 25665), (620, 25662), (622, 25656), (649, 25602), (658, 25584), (660, 25581), (677, 25554), (686, 25536), (689, 25530), (691, 25527), (715, 25485), (721, 25458), (723, 25452), (736, 25395), (764, 25332), (766, 25329),

Gene: Wooldri_38 Start: 26701, Stop: 25556, Start Num: 152

Candidate Starts for Wooldri_38:

(Start: 152 @26701 has 119 MA's), (Start: 180 @26662 has 10 MA's), (Start: 218 @26578 has 6 MA's), (243, 26533), (337, 26377), (350, 26350), (393, 26314), (424, 26257), (464, 26179), (477, 26155), (503, 26116), (540, 26044), (546, 26032), (551, 26026), (559, 26014), (609, 25939), (613, 25933), (622, 25912), (629, 25897), (639, 25879), (655, 25855), (718, 25741), (730, 25696), (731, 25693), (734, 25684), (738, 25663), (740, 25657), (743, 25645), (761, 25606),

Gene: Wrigley_43 Start: 31922, Stop: 33004, Start Num: 159

Candidate Starts for Wrigley_43:

(Start: 86 @31811 has 6 MA's), (92, 31826), (Start: 159 @31922 has 52 MA's), (190, 31976), (261, 32096), (438, 32381), (466, 32441), (506, 32507), (519, 32531), (590, 32636), (622, 32702), (738, 32924), (742, 32936), (766, 32993),

Gene: XFactor_41 Start: 32278, Stop: 33396, Start Num: 163

Candidate Starts for XFactor_41:

(Start: 163 @32278 has 283 MA's), (253, 32449), (346, 32614), (371, 32650), (382, 32659), (438, 32764), (468, 32833), (491, 32872), (501, 32890), (504, 32893), (512, 32905), (513, 32908), (519, 32920), (529, 32935), (539, 32959), (543, 32965), (560, 32986), (590, 33022), (592, 33025), (609, 33061), (613, 33067), (620, 33082), (625, 33097), (675, 33166), (682, 33181), (717, 33223), (727, 33268), (730, 33277), (740, 33316), (745, 33334), (755, 33355), (762, 33370), (766, 33379), (768, 33382),

Gene: Xavia_34 Start: 31565, Stop: 30369, Start Num: 147

Candidate Starts for Xavia_34:

(Start: 147 @31565 has 63 MA's), (Start: 275 @31319 has 15 MA's), (292, 31286), (361, 31148), (364, 31142), (376, 31133), (387, 31121), (403, 31091), (443, 30992), (497, 30920), (529, 30866), (549, 30815), (554, 30809), (611, 30716), (622, 30692), (649, 30641), (660, 30620), (709, 30563), (714, 30554), (719, 30527), (723, 30515), (734, 30476), (748, 30422), (761, 30401),

Gene: XianYue_35 Start: 26639, Stop: 25515, Start Num: 152

Candidate Starts for XianYue_35:

(122, 26681), (Start: 152 @26639 has 119 MA's), (Start: 180 @26600 has 10 MA's), (205, 26552), (Start: 218 @26516 has 6 MA's), (243, 26471), (343, 26303), (393, 26252), (464, 26117), (477, 26093), (551, 25964), (559, 25952), (609, 25877), (613, 25871), (622, 25850), (629, 25835), (639, 25817),

(718, 25679), (731, 25631), (738, 25601), (740, 25595), (743, 25583), (752, 25562), (761, 25544),

Gene: Yecey3_35 Start: 26339, Stop: 25209, Start Num: 138

Candidate Starts for Yecey3_35:

(74, 26456), (77, 26450), (90, 26414), (111, 26375), (113, 26372), (Start: 138 @26339 has 7 MA's), (Start: 195 @26258 has 8 MA's), (Start: 218 @26204 has 6 MA's), (243, 26159), (284, 26099), (350, 25976), (423, 25886), (424, 25883), (464, 25805), (477, 25781), (491, 25760), (503, 25742), (549, 25655), (551, 25652), (559, 25640), (609, 25565), (613, 25559), (622, 25538), (629, 25523), (639, 25505), (718, 25367), (731, 25319), (738, 25289), (740, 25283), (743, 25271), (761, 25232),

Gene: Yeet_76 Start: 51441, Stop: 52670, Start Num: 85

Candidate Starts for Yeet_76:

(Start: 85 @51441 has 29 MA's), (Start: 91 @51459 has 1 MA's), (Start: 112 @51498 has 1 MA's), (Start: 254 @51735 has 1 MA's), (318, 51843), (418, 51963), (419, 51966), (423, 51975), (429, 51990), (447, 52029), (491, 52107), (556, 52212), (562, 52224), (575, 52227), (582, 52236), (607, 52287), (609, 52290), (619, 52308), (672, 52404), (709, 52461), (737, 52581), (738, 52584), (745, 52608), (757, 52632), (759, 52635),

Gene: Yeet412_34 Start: 27696, Stop: 28778, Start Num: 159

Candidate Starts for Yeet412_34:

(Start: 86 @27585 has 6 MA's), (Start: 159 @27696 has 52 MA's), (190, 27750), (261, 27870), (423, 28125), (438, 28155), (466, 28215), (506, 28281), (519, 28305), (723, 28635), (729, 28662), (766, 28767),

Gene: Yeezy_36 Start: 30168, Stop: 28906, Start Num: 147

Candidate Starts for Yeezy_36:

(Start: 147 @30168 has 63 MA's), (221, 30012), (322, 29829), (344, 29793), (379, 29733), (387, 29721), (408, 29676), (421, 29643), (439, 29601), (560, 29433), (563, 29430), (568, 29424), (609, 29355), (618, 29337), (620, 29334), (646, 29277), (707, 29160), (714, 29148), (727, 29091), (743, 29031), (748, 29016), (757, 29004), (761, 28995), (778, 28956), (792, 28926),

Gene: YoungHarleezy_40 Start: 27782, Stop: 26643, Start Num: 163

Candidate Starts for YoungHarleezy_40:

(Start: 126 @27815 has 1 MA's), (Start: 163 @27782 has 283 MA's), (190, 27731), (289, 27563), (299, 27545), (388, 27413), (424, 27335), (429, 27323), (433, 27317), (465, 27248), (470, 27239), (506, 27179), (557, 27089), (620, 26984), (630, 26963), (645, 26936), (717, 26813), (723, 26789), (726, 26774), (746, 26699), (761, 26669),

Gene: YoungHarleezy_36 Start: 24585, Stop: 25502, Start Num: 279

Candidate Starts for YoungHarleezy_36:

(208, 24456), (211, 24462), (Start: 279 @24585 has 58 MA's), (365, 24741), (380, 24756), (387, 24768), (451, 24915), (464, 24924), (490, 24963), (521, 25008), (535, 25032), (537, 25038), (558, 25071), (595, 25113), (599, 25122), (618, 25164), (662, 25248), (726, 25368), (730, 25383),

Gene: YoureAdopted_40 Start: 32682, Stop: 33770, Start Num: 163

Candidate Starts for YoureAdopted_40:

(Start: 163 @32682 has 283 MA's), (Start: 218 @32784 has 6 MA's), (231, 32808), (253, 32844), (337, 32982), (371, 33036), (429, 33120), (465, 33189), (466, 33192), (556, 33342), (618, 33447), (675, 33534), (715, 33582), (727, 33636), (757, 33726),

Gene: YungMoney_41 Start: 35216, Stop: 36133, Start Num: 279

Candidate Starts for YungMoney_41:

(Start: 275 @35210 has 15 MA's), (Start: 279 @35216 has 58 MA's), (346, 35333), (348, 35336), (390, 35399), (393, 35405), (396, 35411), (491, 35597), (531, 35651), (533, 35654), (535, 35660), (546, 35681), (612, 35780), (615, 35786), (621, 35798), (662, 35873), (676, 35900), (711, 35936), (720, 35972), (730, 36011), (762, 36104), (773, 36125),

Gene: Yunkel11_44 Start: 32525, Stop: 33625, Start Num: 163

Candidate Starts for Yunkel11_44:

(70, 32375), (Start: 163 @32525 has 283 MA's), (190, 32576), (231, 32651), (253, 32687), (255, 32690), (319, 32801), (458, 33020), (465, 33044), (466, 33047), (539, 33176), (556, 33197), (618, 33302), (675, 33389), (715, 33437),

Gene: Zaheer_36 Start: 26991, Stop: 27911, Start Num: 279

Candidate Starts for Zaheer_36:

(Start: 279 @26991 has 58 MA's), (365, 27147), (380, 27165), (387, 27177), (451, 27324), (464, 27333), (490, 27372), (531, 27432), (535, 27441), (537, 27447), (558, 27480), (595, 27522), (600, 27534), (615, 27567), (618, 27573), (621, 27579), (662, 27657), (720, 27753), (732, 27798), (761, 27879), (762, 27882),

Gene: Zameen_39 Start: 30563, Stop: 31645, Start Num: 159

Candidate Starts for Zameen_39:

(Start: 86 @30452 has 6 MA's), (Start: 159 @30563 has 52 MA's), (190, 30617), (261, 30737), (423, 30992), (438, 31022), (466, 31082), (506, 31148), (519, 31172), (723, 31502), (729, 31529), (766, 31634),

Gene: Zavala_42 Start: 32759, Stop: 33847, Start Num: 163

Candidate Starts for Zavala_42:

(Start: 163 @32759 has 283 MA's), (Start: 218 @32861 has 6 MA's), (231, 32885), (253, 32921), (337, 33059), (371, 33113), (429, 33197), (465, 33266), (466, 33269), (494, 33317), (556, 33419), (618, 33524), (675, 33611), (715, 33659), (757, 33803),

Gene: Zelink_79 Start: 53554, Stop: 54765, Start Num: 91

Candidate Starts for Zelink_79:

(Start: 85 @53536 has 29 MA's), (Start: 91 @53554 has 1 MA's), (Start: 112 @53593 has 1 MA's), (Start: 254 @53830 has 1 MA's), (318, 53938), (418, 54058), (419, 54061), (423, 54070), (429, 54085), (447, 54124), (491, 54202), (556, 54307), (562, 54319), (575, 54322), (582, 54331), (607, 54382), (609, 54385), (619, 54403), (672, 54499), (709, 54556), (737, 54676), (738, 54679), (745, 54703), (757, 54727), (759, 54730),

Gene: Zetzy_35 Start: 26308, Stop: 25202, Start Num: 180

Candidate Starts for Zetzy_35:

(Start: 118 @26389 has 1 MA's), (Start: 152 @26347 has 119 MA's), (Start: 180 @26308 has 10 MA's), (205, 26260), (Start: 218 @26224 has 6 MA's), (243, 26179), (350, 25996), (393, 25960), (424, 25903), (464, 25825), (491, 25780), (551, 25672), (559, 25660), (609, 25585), (613, 25579), (622, 25558), (629, 25543), (655, 25501), (718, 25387), (730, 25342), (731, 25339), (738, 25309), (740, 25303), (743, 25291), (761, 25252),

Gene: Zhuangyuan_39 Start: 24716, Stop: 23526, Start Num: 147

Candidate Starts for Zhuangyuan_39:

(Start: 147 @24716 has 63 MA's), (624, 23849), (630, 23837),

Gene: Zimmer_35 Start: 28186, Stop: 27065, Start Num: 156

Candidate Starts for Zimmer_35:

(115, 28237), (117, 28234), (129, 28216), (Start: 156 @28186 has 17 MA's), (Start: 218 @28066 has 6 MA's), (243, 28021), (268, 27985), (339, 27862), (350, 27838), (358, 27823), (424, 27745), (464, 27667), (477, 27643), (491, 27622), (503, 27604), (529, 27559), (540, 27532), (551, 27514), (559, 27502), (609, 27427), (613, 27421), (622, 27400), (629, 27385), (639, 27367), (657, 27340), (718, 27229), (731, 27181), (738, 27151), (740, 27145), (743, 27133), (761, 27094),

Gene: Zirinka_36 Start: 31303, Stop: 32385, Start Num: 159

Candidate Starts for Zirinka_36:

(Start: 86 @31192 has 6 MA's), (Start: 159 @31303 has 52 MA's), (190, 31357), (261, 31477), (423, 31732), (438, 31762), (466, 31822), (506, 31888), (519, 31912), (723, 32242), (729, 32269), (766, 32374),

Gene: Zizzle_44 Start: 32003, Stop: 33121, Start Num: 163

Candidate Starts for Zizzle_44:

(Start: 163 @32003 has 283 MA's), (232, 32141), (253, 32174), (284, 32222), (346, 32339), (371, 32375), (382, 32384), (438, 32489), (468, 32558), (504, 32618), (512, 32630), (513, 32633), (519, 32645), (529, 32660), (539, 32684), (543, 32690), (560, 32711), (590, 32747), (592, 32750), (609, 32786), (613, 32792), (618, 32804), (620, 32807), (675, 32891), (682, 32906), (717, 32948), (727, 32993), (730, 33002), (740, 33041), (745, 33059), (755, 33080), (762, 33095), (766, 33104), (768, 33107),

Gene: Zodiariah_37 Start: 32793, Stop: 31624, Start Num: 147

Candidate Starts for Zodiariah_37:

(Start: 147 @32793 has 63 MA's), (300, 32505), (317, 32469), (341, 32430), (344, 32424), (364, 32385), (379, 32364), (387, 32352), (408, 32307), (423, 32268), (429, 32259), (435, 32244), (439, 32235), (472, 32199), (512, 32151), (629, 31956), (646, 31920), (714, 31833), (716, 31821), (743, 31716), (747, 31704), (778, 31641), (784, 31632),

Gene: ZoeJ_43 Start: 33972, Stop: 35072, Start Num: 163

Candidate Starts for ZoeJ_43:

(Start: 163 @33972 has 283 MA's), (172, 33990), (190, 34023), (231, 34098), (253, 34134), (319, 34248), (337, 34272), (371, 34326), (458, 34467), (465, 34491), (466, 34494), (491, 34536), (556, 34644), (618, 34749), (651, 34794), (659, 34809), (742, 35001),

Gene: Zucker_31 Start: 26379, Stop: 25240, Start Num: 163

Candidate Starts for Zucker_31:

(155, 26388), (Start: 163 @26379 has 283 MA's), (284, 26178), (346, 26058), (368, 26022), (382, 26010), (386, 26004), (429, 25911), (438, 25896), (465, 25836), (483, 25806), (519, 25743), (614, 25575), (630, 25545), (682, 25449), (727, 25350), (730, 25341), (734, 25329), (753, 25266),

Gene: Zucker_29 Start: 23884, Stop: 24804, Start Num: 279

Candidate Starts for Zucker_29:

(Start: 254 @23842 has 1 MA's), (Start: 279 @23884 has 58 MA's), (380, 24058), (387, 24070), (451, 24217), (464, 24226), (490, 24265), (535, 24334), (537, 24340), (539, 24343), (558, 24373), (595, 24415), (662, 24550), (720, 24646), (724, 24658), (726, 24670), (730, 24685), (732, 24691),