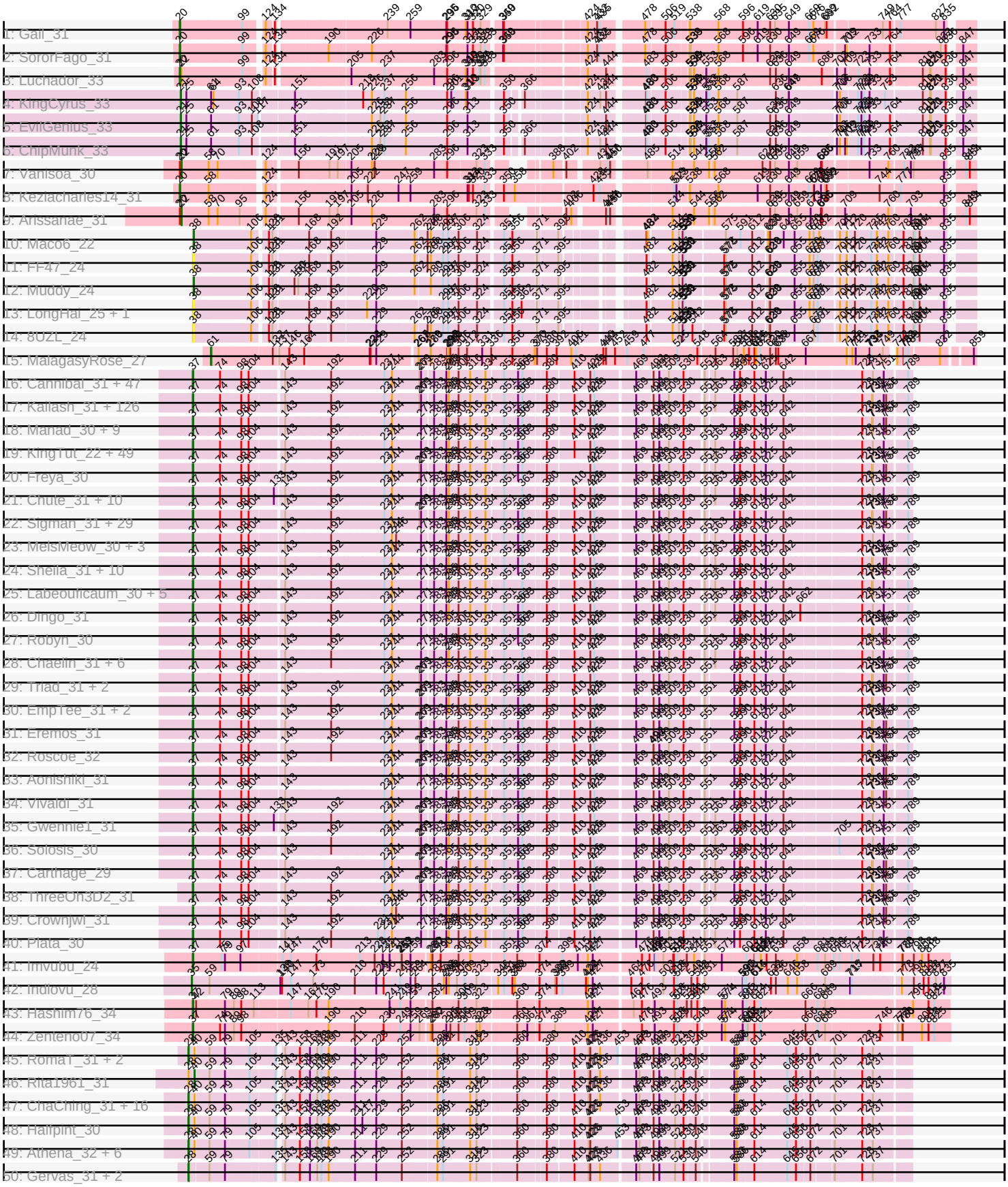
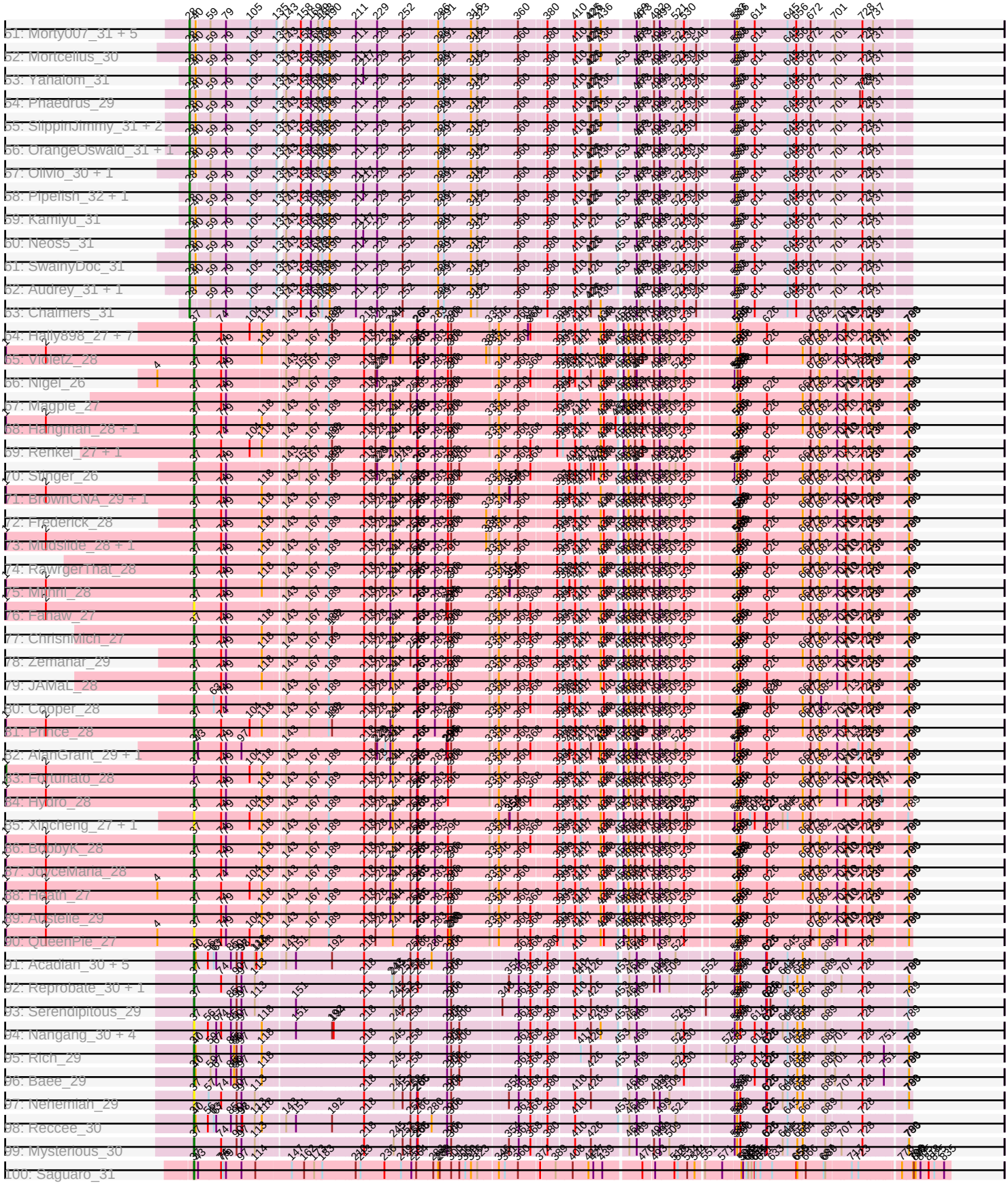
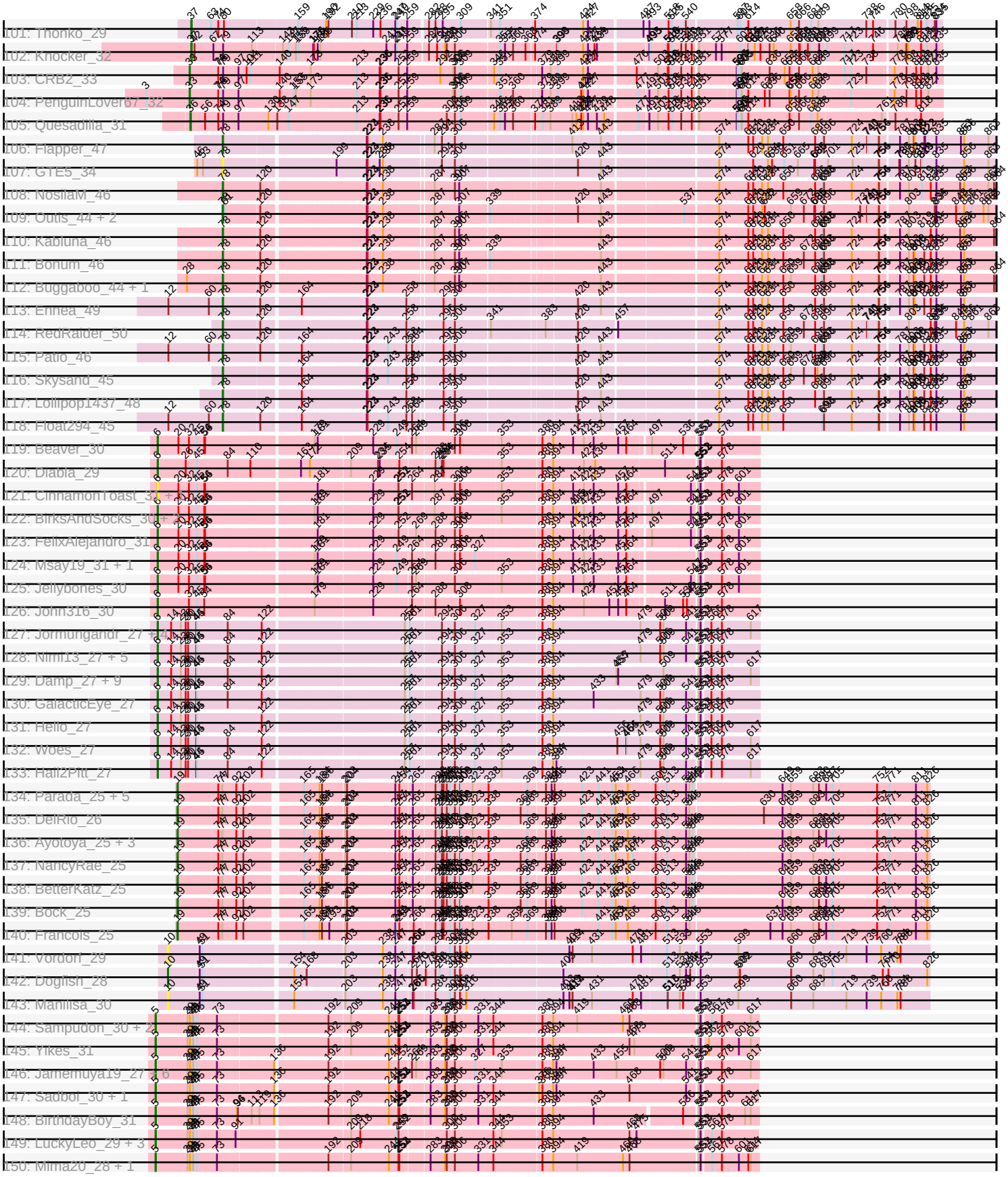
Pham 347041


1: Gail_31
2: SoronFago_31
3: Luchador_33
4: KingCyrus_33
5: EvilGenius_33
6: ChipMunk_33
7: Vanisoa_30
8: Kezlacharles14_31
9: Anssanae_31
10: Maco6_22
11: FF47_24
12: Muddy_24
13: LongHair_25 + 1
14: 8OZL_24
15: MalagasyRose_27
16: Cannibal_31 + 47
17: Kailash_31 + 126
18: Manao_30 + 9
19: KingTut_22 + 49
20: Freya_30
21: Chute_31 + 10
22: Sigman_31 + 29
23: MelsMeow_30 + 3
24: Sheila_31 + 10
25: Labeoufcaum_30 + 5
26: Dingo_31
27: Robyn_30
28: Chaelin_31 + 6
29: Triad_31 + 2
30: EmpTee_31 + 2
31: Eremos_31
32: Roscoe_32
33: Aonishiki_31
34: Vivaldi_31
35: Gwennie1_31
36: Solosis_30
37: Carthage_29
38: ThreeOh3D2_31
39: Crownjwl_31
40: Plata_30
41: Imvubu_24
42: Indlovu_28
43: Hashim76_34
44: Zenteno07_34
45: RomaT_31 + 2
46: Rita1961_31
47: ChaChing_31 + 16
48: Halfpint_30
49: Athena_32 + 6
50: Gervas_31 + 2

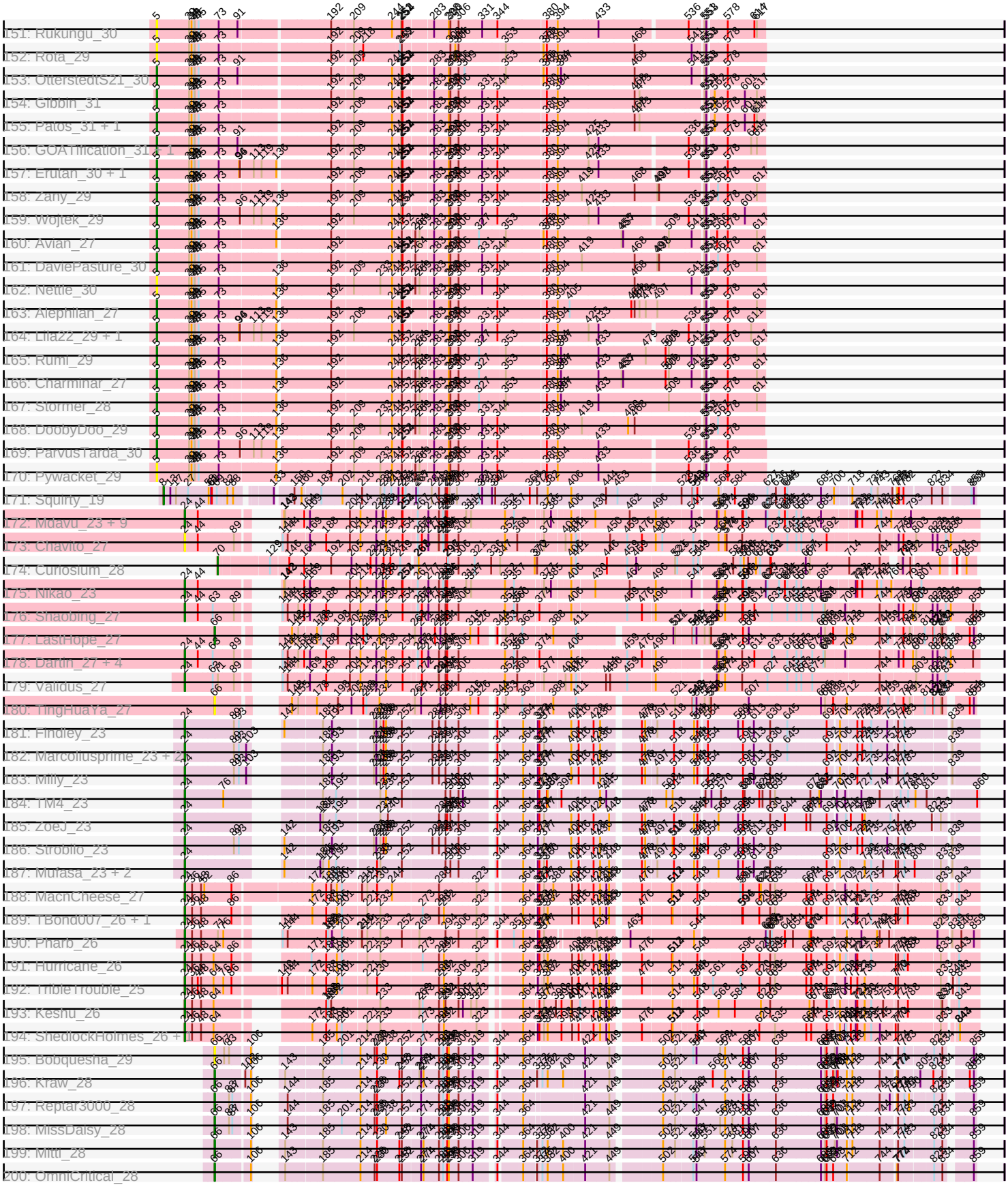
Pham 347041


51: Monty007_31 + 5
52: Montcellus_30
53: Yahalom_31
54: Phaedrus_29
55: SlippinJimmy_31 + 2
56: OrangeOswald_31 + 1
57: Olivio_30 + 1
58: Pipefish_32 + 1
59: Kamiyu_31
60: Neos5_31
61: SwainyDoc_31
62: Audrey_31 + 1
63: Chalmers_31
64: Hally898_27 + 7
65: VioletZ_28
66: Nigel_26
67: Magpie_27
68: Hangman_28 + 1
69: Renkei_27 + 1
70: Stinger_26
71: BrownCNA_29 + 1
72: Frederick_28
73: Mudslide_28 + 1
74: RawrgerThat_28
75: Mahni_28
76: Fahaw_27
77: ChrishMich_27
78: Zemanar_29
79: JAMaL_28
80: Cooper_28
81: Prince_28
82: AlanGrant_29 + 1
83: Fortunato_28
84: Hydro_28
85: Xincheng_27 + 1
86: BobbyK_28
87: JoyceMana_28
88: Heath_27
89: AuStelle_29
90: QueenPie_27
91: Acadian_30 + 5
92: Reprobate_30 + 1
93: Serendipitous_29
94: Nangang_30 + 4
95: Rich_29
96: Baee_29
97: Nehemiah_29
98: Reccee_30
99: Mysterious_30
100: Saguaro_31

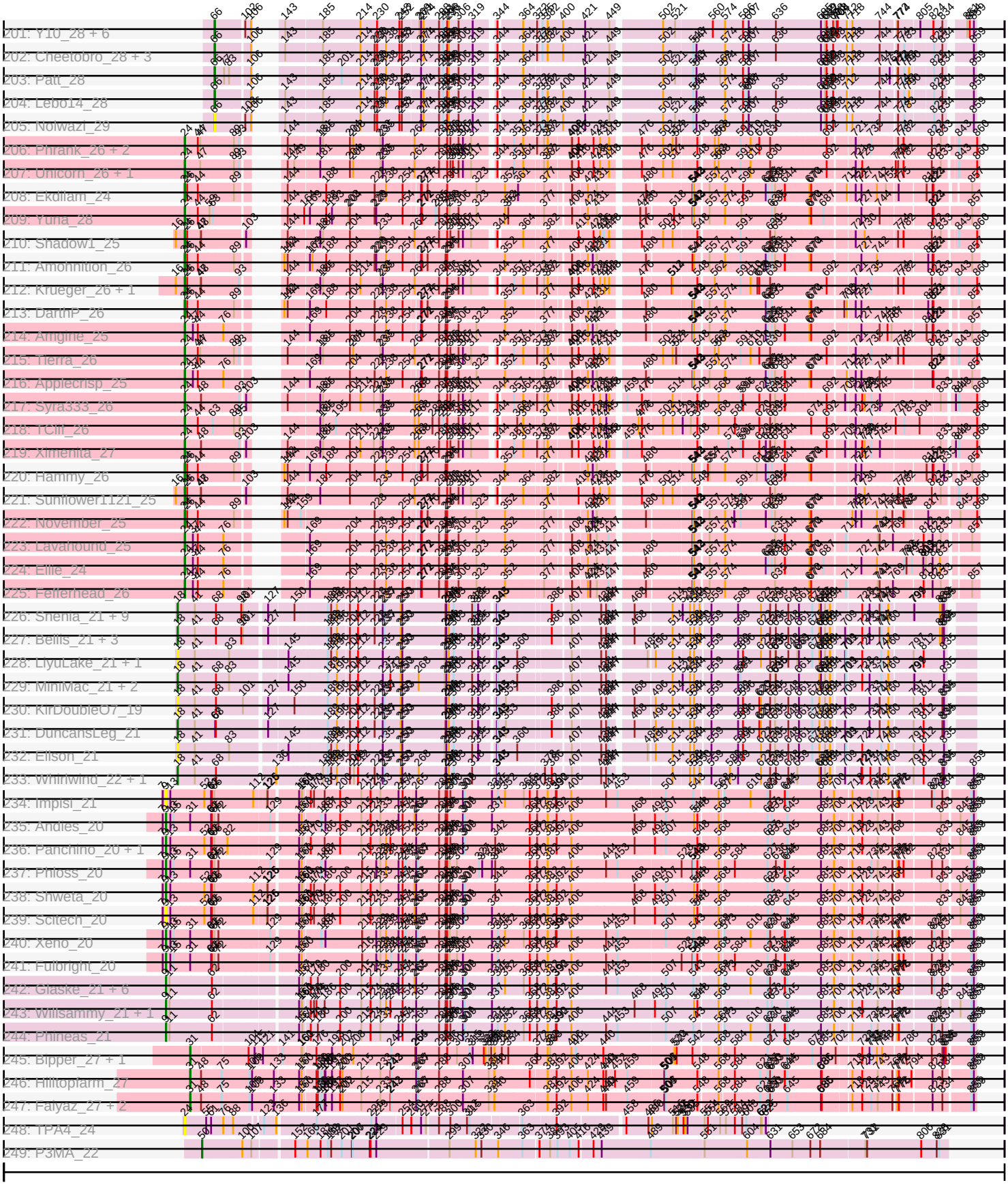
Pham 347041



Pham 347041


151: Rukungu_30
152: Rota_29
153: OtterstedtS21_30
154: Gibbin_31
155: Patos_31 + 1
156: GOATification_31 + 1
157: Erutan_30 + 1
158: Zany_29
159: Wojtek_29
160: Avian_27
161: DaviePasture_30
162: Nettie_30
163: Alephilan_27
164: Lila22_29 + 1
165: Rumi_29
166: Charminar_27
167: Stormer_28
168: DoobyDoo_29
169: ParvusTarda_30
170: Pywacket_29
171: Squirty_19
172: Mdavu_23 + 9
173: Chavito_27
174: Curiosium_28
175: Nikao_23
176: Shaobing_27
177: LastHope_27
178: Darlin_27 + 4
179: Validus_27
180: TingHuaYa_27
181: Findley_23
182: Marcoliusprime_23 + 2
183: Milly_23
184: TM4_23
185: ZoeJ_23
186: Strobilo_23
187: Mufasa_23 + 2
188: MacnCheese_27
189: TBondi007_26 + 1
190: Pharb_26
191: Hurricane_26
192: TribleTrouble_25
193: Keshu_26
194: SherlockHolmes_26 + 1
195: Bobquesha_29
196: Kraw_28
197: Reptar3000_28
198: MissDaisy_28
199: Mitti_28
200: OmniCritical_28

Pham 347041


201: Y10_28 + 6
202: Cheetobro_28 + 3
203: Patt_28
204: Leb014_28
205: Nolwazi_29
206: Phrank_26 + 2
207: Unicorn_26 + 1
208: Ekuliam_24
209: Yuna_28
210: Shadow1_25
211: Amonnition_26
212: Krueger_26 + 1
213: DarthP_26
214: Amigine_25
215: Tierra_26
216: Applecrisp_25
217: Syra333_26
218: TCliff_26
219: Ximenita_27
220: Hammy_26
221: Sunflower1121_25
222: November_25
223: Lavahound_25
224: Ellie_24
225: Fetterhead_26
226: Shenia_21 + 9
227: Bellis_21 + 3
228: LlyuLake_21 + 1
229: MiniMac_21 + 2
230: KirDoubleO7_19
231: DuncansLeg_21
232: Ellson_21
233: Whirlwind_22 + 1
234: Impisi_21
235: Andies_20
236: Panchino_20 + 1
237: Phloss_20
238: Shweta_20
239: Scitech_20
240: Xeno_20
241: Fulbright_20
242: Glaske_21 + 6
243: Willsammy_21 + 1
244: Phineas_21
245: Bipper_27 + 1
246: Hilltopfarm_27
247: Faiyaz_27 + 2
248: TPA4_24
249: P3MA_22

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 347041 Report

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

Pham number 347041 has 717 members, 79 are drafts.

Phages represented in each track:
- Track 1 : Gail_31
- Track 2 : SororFago_31
- Track 3 : Luchador_33
- Track 4 : KingCyrus_33
- Track 5 : EvilGenius_33
- Track 6 : ChipMunk_33
- Track 7 : Vanisoa_30
- Track 8 : Keziacharles14_31
- Track 9 : Arissanae_31
- Track 10 : Maco6_22
- Track 11 : FF47_24
- Track 12 : Muddy_24
- Track 13 : LongHai_25, Salvus_25
- Track 14 : 8UZL_24
- Track 15 : MalagasyRose_27
- Track 16 : Cannibal_31, Schueller_30, LeiMonet_31, Mana_30, Happabalu_31, Lasso_31, Mcshane_30, Lulwa_31, Emiris_31, Cobra_31, LeeLot_31, JDog_30, Murdoc_31, PinheadLarry_31, Held_31, Oosterbaan_31, Matalotodo_31, SilverBell_31, Zelda_31, Eugenia_31, DonSanchon_30, LuckyMarjie_30, Dice_30, Altwerkus_30, Dione_30, Squiggle_31, Daffy_31, TooFast2Furius_32, Vista_31, Mesmerelda_30, Mutante_30, Jiraiya_30, Karn_30, Sophia_30, Grand2040_30, Chorkpop_31, Selr12_31, Maru_30, TallGrassMM_31, Inchworm_31, UncleHowie_31, Childish_30, Ricotta_30, Magic8_31, LostAndPhound_30, Thunderbird_30, Pipsqueak_31, Fang_31
- Track 17 : Kailash_31, Gophee_31, PallasAthena_30, Dati_31, PuhItonio_31, Salazzle_31, Mecca_30, Samaymay_31, Scrick_31, Haleema_30, TomBombadil_31, Bishoperium_30, Craff_31, BoogieWoogie_31, Potter_30, Megatron_31, FriarPreacher_31, DolOn_32, Mag7_30, GreenChile_31, Bluephacebaby_30, Kwadwo_30, CampRoach_31, Pacifista_30, Anderson_31, Harvey_31, SassyCat97_30, Chah_32, QueenBeane_31, Nyala_30, Telesworld_30, Omniscient_31, Banjo_30, Iridoclysis_31, Phareon_31, Adriana_31, Beaglebox_30, Lego3393_31, FremontTroll_30, Kimbrough_31, Giraffe_31, Lumine_30, Podrick_31, Riggan_31, Kahve_30, Usavi_31, Gyarad_0031, YouGoGlencoco_31, Nova1_30, LemonSlice_31, KLucky39_31, Legolas_30, Cornbread_30, MRabcd_30, HighStump_30, Phergie_30, Apizium_30, LasagnaCat_31, Vaticameos_31, Cher_30, HogWash_30, Hocus_30, Veritas_30, Gwilliam_31, Skippy_31, ShiVal_31, Swiphy_31, Plmatters_31, Tomlarah_31, HenryJackson_30, Charles1_31,

Megamind20_31, True_30, Hartsy_31, Simielle_30, Piglet_0030, Morty_31, Squid_31, Phunky_31, Phamished_31, Fringe_31, Weher20_31, FugateOSU_30, Numberten_31, Orfeu_30, Hamish_31, CamL_31, NiaNia_32, Mesh1_31, PhatLouie_31, PhrodoBaggins_30, Melc17_31, PhrankReynolds_30, Phipps_31, Andre_31, HSavage_31, Placalicious_30, DelRivs_30, Serpentine_0031, Haimas_31, Waterdiva_31, ShadowBud_31, PhenghisKhan_30, Jillium_30, Xavier_30, Nicole21_31, Surely_31, Mosaic_30, Slatt_31, Jesabah_31, MitKao_31, Virapocalypse_31, Burr_30, Zaider_32, BatteryCK_30, Soile_31, Orwigg_30, Serendipity_31, AngelCake_31, JangoPhett_31, Iridessa_31, DoesntMatter_31, Buckeye_31, Gareth_30, Quisquiliae_31, Cosmolli16_30, MichaelPhcott_30
• Track 18 : Manad_30, Newman_31, Azuria_30, Cornobble_30, OliverWalter_31, Nacho_0031, Schadenfreude_30, Suffolk_31, Septica_30, AbsoluteMadLad_30
• Track 19 : KingTut_22, RedRaider89_32, Morgushi_31, Kwksand96_30, DaddyDaniels_31, Durga_31, Ashraf_30, Timmi_30, AltPhacts_31, Brilliant_31, Lopsy_30, Aelin_30, Roliet_31, GeneCoco_31, Vortex_31, RedMaple_30, EmGer13_30, OneBrain_31, Hekos_28, Longacauda_30, Pops_31, KingVeVeVe_31, Caspiboi_30, Inverness_31, Basato_32, Daka_31, Etaye_31, Antonia_30, Trypo_31, Soto_31, Struggle_30, BlueHusk_31, Pinkman_30, ImtiyazSitla_30, Khan1_30, CheetO_31, Chuni_31, KlimbOn_31, Rimu_31, MrPhizzler_31, MiniBoss_31, Prickles_31, Maskar_30, Horchata_31, DirtJuice_31, Zonia_31, SDcharge11_31, Duggie_30, Wallhey_30, Chipette_32
• Track 20 : Freya_30
• Track 21 : Chute_31, Fozzie_30, Flake_31, Nathan_31, OSmaximus_31, Coletti_31, Windsor_30, Keitherie_31, Virgeve_30, Larson_32, BlacksBerry_30
• Track 22 : Sigman_31, Scoot17C_31, BlackStallion_31, IsaacEli_31, UAch1_31, Lulumae_30, Orion_31, ProfessorX_31, Olak_30, Hertubise_31, Badfish_31, Kloppinator_31, Thora_31, JacAttac_31, PG1_31, Katniss_31, PhatCats2014_31, ABU_31, SallyH_31, Yoshand_31, FluffyNinja_31, Swish_31, Roy17_31, Hetaeria_31, Kikipoo_31, Olive_31, Mulan_30, Pherdinand_31, Toni_30, Boehler_31
• Track 23 : MelsMeow_30, ElvisPhasley_31, JakeO_30, FleetyMac_31
• Track 24 : Sheila_31, Tooj_31, Riverton_31, DuchessDung_29, Chunky_31, Colbert_31, Frankicide_31, Vectra_30, Mikota_31, Phleuron_30, Oline_30
• Track 25 : Labeouficaum_30, Doddsville_31, Jiminy_30, CharlieGBrown_30, Derpp_30, TyrionL_30
• Track 26 : Dingo_31
• Track 27 : Robyn_30
• Track 28 : Chaelin_31, SirBeauregard_31, Aleia_31, Nehme_30, Kiwot_30, Jbug01_30, Taraxa_30
• Track 29 : Triad_31, Lehmann_31, Vaishali24_30
• Track 30 : EmpTee_31, Spartan300_31, Valjean_31
• Track 31 : Eremos_31
• Track 32 : Roscoe_32
• Track 33 : Aonishiki_31
• Track 34 : Vivaldi_31
• Track 35 : Gwennie1_31
• Track 36 : Solosis_30
• Track 37 : Carthage_29
• Track 38 : ThreeOh3D2_31
• Track 39 : Crownjwl_31
• Track 40 : Plata_30
• Track 41 : Imvubu_24
• Track 42 : Indlovu_28
• Track 43 : Hashim76_34

• Track 44 : Zenteno07_34
• Track 45 : RomaT_31, Phayeta_31, Mulaychimus_31
• Track 46 : Rita1961_31
• Track 47 : ChaChing_31, Jackstina_28, Tydolla_31, RagingRooster_31, Devonte_31, Phlyer_31, Chandler_31, LestyG_31, Deenasa_31, MmasiCarm_31, Yinz_31, Chentzyk_30, SynergyX_31, Marlia_31, Corofin_31, HarveySr_31, Daisy_31
• Track 48 : Halfpint_30
• Track 49 : Athena_32, Nozo_31, Abinghost_31, Compostia_32, Baloo_31, Briakila_31, Ben11_30
• Track 50 : Gervas_31, Obutu_31, Kronus_30
• Track 51 : Morty007_31, Casbah_30, Marley1013_31, Akoma_31, Gadjet_32, Shenandoah_31
• Track 52 : Mortcellus_30
• Track 53 : Yahalom_31
• Track 54 : Phaedrus_29
• Track 55 : SlippinJimmy_31, TinyTerror_31, GlenHope_32
• Track 56 : OrangeOswald_31, Heathcliff_31
• Track 57 : Olivio_30, Glubnar_32
• Track 58 : Pipefish_32, Bernardo_31
• Track 59 : Kamiyu_31
• Track 60 : Neos5_31
• Track 61 : SwainyDoc_31
• Track 62 : Audrey_31, Philly_30
• Track 63 : Chalmers_31
• Track 64 : Hally898_27, Antihero_27, GinPorsche_27, Ahwei_27, Poster_27, Lambano_27, Epah_27, Nanao_27
• Track 65 : VioletZ_28
• Track 66 : Nigel_26
• Track 67 : Magpie_27
• Track 68 : Hangman_28, Waleliano_28
• Track 69 : Renkei_27, LittleDigger_27
• Track 70 : Stinger_26
• Track 71 : BrownCNA_29, Lolalove_28
• Track 72 : Frederick_28
• Track 73 : Mudslide_28, Apex_28
• Track 74 : RawrgerThat_28
• Track 75 : Mithril_28
• Track 76 : Fanaw_27
• Track 77 : ChrisnMich_27
• Track 78 : Zemanar_29
• Track 79 : JAMaL_28
• Track 80 : Cooper_28
• Track 81 : Prince_28
• Track 82 : AlanGrant_29, Vincenzo_29
• Track 83 : Fortunato_28
• Track 84 : Hydro_28
• Track 85 : Xincheng_27, JaguarMi_28
• Track 86 : BobbyK_28
• Track 87 : JoyceMaria_28
• Track 88 : Heath_27
• Track 89 : Austelle_29
• Track 90 : QueenPie_27

• Track 91 : Acadian_30, Rita130_30, EastView9101_29, Donny_30, Suigeneris_30, SirJeffery_30
• Track 92 : Reprobate_30, Phelemich_30
• Track 93 : Serendipitous_29
• Track 94 : Nangang_30, StinkyVeggy_32, KarasumaRum_32, Shenyu_30, DigitDog_30
• Track 95 : Rich_29
• Track 96 : Baee_29
• Track 97 : Nehemiah_29
• Track 98 : Reccee_30
• Track 99 : Mysterious_30
• Track 100 : Saguaro_31
• Track 101 : Thonko_29
• Track 102 : Knocker_32
• Track 103 : CRB2_33
• Track 104 : PenguinLover67_32
• Track 105 : Quesadilla_31
• Track 106 : Flapper_47
• Track 107 : GTE5_34
• Track 108 : NosilaM_46
• Track 109 : Outis_44, MerCougar_44, StarStruck_44
• Track 110 : Kabluna_46
• Track 111 : Bonum_46
• Track 112 : Buggaboo_44, SuperSulley_44
• Track 113 : Ennea_49
• Track 114 : RedRaider_50
• Track 115 : Patio_46
• Track 116 : Skysand_45
• Track 117 : Lollipop1437_48
• Track 118 : Float294_45
• Track 119 : Beaver_30
• Track 120 : Diabla_29
• Track 121 : CinnamonToast_31, BillyBobJr_31
• Track 122 : BirksAndSocks_30, Butterball_30, Boneham_30
• Track 123 : FelixAlejandro_31
• Track 124 : Msay19_31, Poland_31
• Track 125 : Jellybones_30
• Track 126 : John316_30
• Track 127 : Jormungandr_27, Lahirium_27, Harambe_27, Anamika_27, Neoevie_27
• Track 128 : Nimi13_27, Newt_28, Teal_27, Luker_28, Sticker17_27, Guillaume_27
• Track 129 : Damp_27, Bianmat_27, Berries_27, Kaseim_27, Lidong_27, Charianelly_27, Minos_28, Jams_27, Shelley_27, MrWormie_27
• Track 130 : GalacticEye_27
• Track 131 : Hello_27
• Track 132 : Woes_27
• Track 133 : Hail2Pitt_27
• Track 134 : Parada_25, Brylie_25, Mulch_25, WheatThin_25, SussRoloMann_25, Nadeem_25
• Track 135 : DelRio_26
• Track 136 : Ayotoya_25, Hamood_25, Chop_25, GrandSlam_25
• Track 137 : NancyRae_25
• Track 138 : BetterKatz_25
• Track 139 : Bock_25

• Track 140 : Francois_25
• Track 141 : Vordorf_29
• Track 142 : Dogfish_28
• Track 143 : Manilisa_30
• Track 144 : Sampudon_30, LavAbarElk_28, Jalebi_29
• Track 145 : Yikes_31
• Track 146 : Jamemuya19_27, NovaSharks_29, Astralis_27, Alyssamiracle_30, Genamy16_30, Riduram_27, RazorC_28
• Track 147 : Sadboi_30, GretelLyn_30
• Track 148 : BirthdayBoy_31
• Track 149 : LuckyLeo_29, Apeppi_27, Tillicus_29, Aaravos_27
• Track 150 : Mima20_28, MoiGyank_32
• Track 151 : Rukungu_30
• Track 152 : Rota_29
• Track 153 : OtterstedtS21_30
• Track 154 : Gibbin_31
• Track 155 : Patos_31, NorManre_31
• Track 156 : GOATification_31, Fulcrum_31
• Track 157 : Erutan_30, Ranch_30
• Track 158 : Zany_29
• Track 159 : Wojtek_29
• Track 160 : Avian_27
• Track 161 : DaviePasture_30
• Track 162 : Nettle_30
• Track 163 : Alephilan_27
• Track 164 : Lila22_29, Lambo_30
• Track 165 : Rumi_29
• Track 166 : Charminar_27
• Track 167 : Stormer_28
• Track 168 : DoobyDoo_29
• Track 169 : ParvusTarda_30
• Track 170 : Pywacket_29
• Track 171 : Squirty_19
• Track 172 : Mdavu_23, Teejan_23, Enkosi_23, Amelie_23, Biglebops_23, Torres_23, Trice_23, LilPharaoh_23, SgtBeansprout_23, Nutello_23
• Track 173 : Chavito_27
• Track 174 : Curiosium_28
• Track 175 : Nikao_23
• Track 176 : Shaobing_27
• Track 177 : LastHope_27
• Track 178 : Dartin_27, McMater_27, Peanam_27, Richo_27, Niklas_27
• Track 179 : Validus_27
• Track 180 : TingHuaYa_27
• Track 181 : Findley_23
• Track 182 : Marcoliusprime_23, DismalStressor_23, DismalFunk_23
• Track 183 : Milly_23
• Track 184 : TM4_23
• Track 185 : ZoeJ_23
• Track 186 : Strobilo_23
• Track 187 : Mufasa_23, BoostSeason_23, Doughnut_23
• Track 188 : MacnCheese_27
• Track 189 : TBond007_26, Pixie_26
• Track 190 : Pharb_26

• Track 191 : Hurricane_26
• Track 192 : TribleTrouble_25
• Track 193 : Keshu_26
• Track 194 : ShedlockHolmes_26, Lea83_26
• Track 195 : Bobquesha_29
• Track 196 : Kraw_28
• Track 197 : Reptar3000_28
• Track 198 : MissDaisy_28
• Track 199 : Mitti_28
• Track 200 : OmniCritical_28
• Track 201 : Y10_28, Fionnbharth_28, JF1_28, YasnayaPolyana_28, Wintermute_28, Y2_28, Malthus_29
• Track 202 : Cheetobro_28, Chancellor_28, Qhanda_29, Slarp_28
• Track 203 : Patt_28
• Track 204 : Lebo14_28
• Track 205 : Nolwazi_29
• Track 206 : Phrank_26, Bryler_26, Cain_26
• Track 207 : Unicorn_26, PhelpsODU_26
• Track 208 : Ekdilam_24
• Track 209 : Yuna_28
• Track 210 : Shadow1_25
• Track 211 : Amohnition_26
• Track 212 : Krueger_26, Tigress9_26
• Track 213 : DarthP_26
• Track 214 : Amgine_25
• Track 215 : Tierra_26
• Track 216 : Applecrisp_25
• Track 217 : Syra333_26
• Track 218 : TClif_26
• Track 219 : Ximenita_27
• Track 220 : Hammy_26
• Track 221 : Sunflower1121_25
• Track 222 : November_25
• Track 223 : Lavahound_25
• Track 224 : Ellie_24
• Track 225 : Fefferhead_26
• Track 226 : Snenia_21, Red305_21, Jubie_21, Lumos_21, Clautastrophe_21, TriFive_21, Nicholas_21, Kingsolomon_21, MsGreen_21, Jobypre_21
• Track 227 : Bellis_21, Finnry_21, Moostard_21, Samty_21
• Track 228 : LiyuLake_21, BourbonZero_20
• Track 229 : MiniMac_21, MiniLon_21, Lolly9_21
• Track 230 : KirDoubleO7_19
• Track 231 : DuncansLeg_21
• Track 232 : Ellson_21
• Track 233 : Whirlwind_22, Krypton555_21
• Track 234 : Impisi_21
• Track 235 : Andies_20
• Track 236 : Panchino_20, SkinnyPete_20
• Track 237 : Phloss_20
• Track 238 : Shweta_20
• Track 239 : Scitech_20
• Track 240 : Xeno_20
• Track 241 : Fulbright_20

• Track 242 : Glaske_21, Gavriela_21, CactusJack_21, StressBall_21, Megiddo_21, Phalm_21, KilKor_21
• Track 243 : Willsammy_21, Dynamo_21
• Track 244 : Phineas_21
• Track 245 : Bipper_27, Cracklewink_27
• Track 246 : Hilltopfarm_27
• Track 247 : Faiyaz_27, AuntGwenStacy_27, Typha_27
• Track 248 : TPA4_24
• Track 249 : P3MA_22

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

The start number called the most often in the published annotations is 37, it was called in 342 of the 638 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ABU_31, AbsoluteMadLad_30, Acadian_30, Adriana_31, Aelin_30, Ahwei_27, AlanGrant_29, Aleia_31, AltPhacts_31, Altwerkus_30, Anderson_31, Andre_31, AngelCake_31, Antihero_27, Antonia_30, Aonishiki_31, Apex_28, Apizium_30, Ashraf_30, Austelle_29, Azuria_30, Badfish_31, Baee_29, Banjo_30, Basato_32, BatteryCK_30, Beaglebox_30, Bishoperium_30, BlackStallion_31, BlacksBerry_30, BlueHusk_31, Bluephacebaby_30, BobbyK_28, Boehler_31, BoogieWoogie_31, Brilliant_31, BrownCNA_29, Buckeye_31, Burr_30, CamL_31, CampRoach_31, Cannibal_31, Carthage_29, Caspiboi_30, Chaelin_31, Chah_32, Charles1_31, CharlieGBrown_30, CheetO_31, Cher_30, Childish_30, Chipette_32, Chorkpop_31, ChrisnMich_27, Chuni_31, Chunky_31, Chute_31, Cobra_31, Colbert_31, Coletti_31, Cooper_28, Cornbread_30, Cornobble_30, Cosmolli16_30, Craff_31, Crownjwl_31, DaddyDaniels_31, Daffy_31, Daka_31, Dati_31, DelRivs_30, Derpp_30, Dice_30, DigitDog_30, Dingo_31, Dione_30, DirtJuice_31, Doddsville_31, DoesntMatter_31, DolOn_32, DonSanchon_30, Donny_30, DuchessDung_29, Duggie_30, Durga_31, EastView9101_29, ElvisPhasley_31, EmGer13_30, Emiris_31, EmpTee_31, Epah_27, Eremos_31, Etaye_31, Eugenia_31, Fanaw_27, Fang_31, Flake_31, FleetyMac_31, FluffyNinja_31, Fozzie_30, Frankicide_31, Frederick_28, FremontTroll_30, Freya_30, FriarPreacher_31, Fringe_31, FugateOSU_30, Gareth_30, GeneCoco_31, GinPorsche_27, Giraffe_31, Gophee_31, Grand2040_30, GreenChile_31, Gwennie1_31, Gwilliam_31, Gyarad_0031, HSavage_31, Haimas_31, Haleema_30, Hally898_27, Hamish_31, Hangman_28, Happabalu_31, Hartsy_31, Harvey_31, Hashim76_34, Heath_27, Hekos_28, Held_31, HenryJackson_30, Hertubise_31, Hetaeria_31, HighStump_30, Hocus_30, HogWash_30, Horchata_31, Hydro_28, ImtiyazSitla_30, Imvubu_24, Inchworm_31, Inverness_31, Iridessa_31, Iridoclysis_31, IsaacEli_31, JAMaL_28, JDog_30, JacAttac_31, JaguarMi_28, JakeO_30, JangoPhett_31, Jbug01_30, Jesabah_31, Jillium_30, Jiminy_30, Jiraiya_30, JoyceMaria_28, KLucky39_31, Kahve_30, Kailash_31, KarasumaRum_32, Karn_30, Katniss_31, Keitherie_31, Khan1_30, Kikipoo_31, Kimbrough_31, KingTut_22, KingVeVeVe_31, Kiwot_30, KlimbOn_31, Kloppinator_31, Knocker_32, Kwadwo_30, Kwksand96_30, Labeouficaum_30, Lambano_27, Larson_32, LasagnaCat_31, Lasso_31, LeeLot_31, Lego3393_31, Legolas_30, Lehmann_31, LeiMonet_31, LemonSlice_31, LittleDigger_27, Lolalove_28, Longacauda_30, Lopsy_30, LostAndPhound_30, LuckyMarjie_30, Lulumae_30, Lulwa_31, Lumine_30, MRabcd_30, Mag7_30, Magic8_31, Magpie_27,

Mana_30, Manad_30, Maru_30, Maskar_30, Matalotodo_31, Mcshane_30, Mecca_30, Megamind20_31, Megatron_31, Melc17_31, MelsMeow_30, Mesh1_31, Mesmerelda_30, MichaelPhcott_30, Mikota_31, MiniBoss_31, MitKao_31, Mithril_28, Morgushi_31, Morty_31, Mosaic_30, MrPhizzler_31, Mudslide_28, Mulan_30, Murdoc_31, Mutante_30, Mysterious_30, Nacho_0031, Nanao_27, Nangang_30, Nathan_31, Nehemiah_29, Nehme_30, Newman_31, NiaNia_32, Nicole21_31, Nigel_26, Nova1_30, Numberten_31, Nyala_30, OSmaximus_31, Olak_30, Oline_30, Olive_31, OliverWalter_31, Omniscient_31, OneBrain_31, Oosterbaan_31, Orfeu_30, Orion_31, Orwigg_30, PG1_31, Pacifista_30, PallasAthena_30, Phamished_31, Phareon_31, PhatCats2014_31, PhatLouie_31, Phelemich_30, PhenghisKhan_30, Pherdinand_31, Phergie_30, Phipps_31, Phleuron_30, PhrankReynolds_30, PhrodoBaggins_30, Phunky_31, Piglet_0030, PinheadLarry_31, Pinkman_30, Pipsqueak_31, Placalicious_30, Plata_30, Plmatters_31, Podrick_31, Pops_31, Poster_27, Potter_30, Prickles_31, Prince_28, ProfessorX_31, Puhltonio_31, QueenBeane_31, QueenPie_27, Quisquiliae_31, RawrgerThat_28, Reccee_30, RedMaple_30, RedRaider89_32, Renkei_27, Reprobate_30, Rich_29, Ricotta_30, Riggan_31, Rimu_31, Rita130_30, Riverton_31, Robyn_30, Roliet_31, Roscoe_32, Roy17_31, SDcharge11_31, Saguaro_31, Salazzle_31, SallyH_31, Samaymay_31, SassyCat97_30, Schadenfreude_30, Schueller_30, Scoot17C_31, Scrick_31, Selr12_31, Septica_30, Serendipitous_29, Serendipity_31, Serpentine_0031, ShadowBud_31, Sheila_31, Shenyu_30, ShiVal_31, Sigman_31, SilverBell_31, Simielle_30, SirBeauregard_31, SirJeffery_30, Skippy_31, Slatt_31, Soile_31, Solosis_30, Sophia_30, Soto_31, Spartan300_31, Squid_31, Squiggle_31, Stinger_26, StinkyVeggy_32, Struggle_30, Suffolk_31, Suigeneris_30, Surely_31, Swiphy_31, Swish_31, TallGrassMM_31, Taraxa_30, Telesworld_30, Thonko_29, Thora_31, ThreeOh3D2_31, Thunderbird_30, Timmi_30, TomBombadil_31, Tomlarah_31, Toni_30, TooFast2Furius_32, Tooj_31, Triad_31, True_30, Trypo_31, TyrionL_30, UAch1_31, UncleHowie_31, Usavi_31, Vaishali24_30, Valjean_31, Vaticameos_31, Vectra_30, Veritas_30, Vincenzo_29, VioletZ_28, Virapocalypse_31, Virgeve_30, Vista_31, Vivaldi_31, Vortex_31, Waleliano_28, Wallhey_30, Waterdiva_31, Weher20_31, Windsor_30, Xavier_30, Xincheng_27, Yoshand_31, YouGoGlencoco_31, Zaider_32, Zelda_31, Zemanar_29, Zenteno07_34, Zonia_31,

Genes that have the "Most Annotated" start but do not call it:
• Amgine_25, Applecrisp_25, Ellie_24, Fefferhead_26, Fortunato_28, Lavahound_25,

Genes that do not have the "Most Annotated" start:
• 8UZL_24, Aaravos_27, Abinghost_31, Akoma_31, Alephilan_27, Alyssamiracle_30, Amelie_23, Amohnition_26, Anamika_27, Andies_20, Apeppi_27, Arissanae_31, Astralis_27, Athena_32, Audrey_31, AuntGwenStacy_27, Avian_27, Ayotoya_25, Baloo_31, Beaver_30, Bellis_21, Ben11_30, Bernardo_31, Berries_27, BetterKatz_25, Bianmat_27, Biglebops_23, BillyBobJr_31, Bipper_27, BirksAndSocks_30, BirthdayBoy_31, Bobquesha_29, Bock_25, Boneham_30, Bonum_46, BoostSeason_23, BourbonZero_20, Briakila_31, Bryler_26, Brylie_25, Buggaboo_44, Butterball_30, CRB2_33, CactusJack_21, Cain_26, Casbah_30, ChaChing_31, Chalmers_31, Chancellor_28, Chandler_31, Charianelly_27, Charminar_27, Chavito_27, Cheetobro_28, Chentzyk_30, ChipMunk_33, Chop_25, CinnamonToast_31, Clautastrophe_21, Compostia_32, Corofin_31, Cracklewink_27, Curiosium_28, Daisy_31, Damp_27, DarthP_26, Dartin_27, DaviePasture_30, Deenasa_31, DelRio_26, Devonte_31, Diabla_29, DismalFunk_23, DismalStressor_23, Dogfish_28, DoobyDoo_29, Doughnut_23, DuncansLeg_21, Dynamo_21, Ekdilam_24, Ellson_21, Enkosi_23, Ennea_49, Erutan_30, EvilGenius_33, FF47_24, Faiyaz_27, FelixAlejandro_31, Findley_23, Finnry_21,

Fionnbharth_28, Flapper_47, Float294_45, Francois_25, Fulbright_20, Fulcrum_31, GOATification_31, GTE5_34, Gadjet_32, Gail_31, GalacticEye_27, Gavriela_21, Genamy16_30, Gervas_31, Gibbin_31, Glaske_21, GlenHope_32, Glubnar_32, GrandSlam_25, GretelLyn_30, Guillaume_27, Hail2Pitt_27, Halfpint_30, Hammy_26, Hamood_25, Harambe_27, HarveySr_31, Heathcliff_31, Hello_27, Hilltopfarm_27, Hurricane_26, Impisi_21, Indlovu_28, JF1_28, Jackstina_28, Jalebi_29, Jamemuya19_27, Jams_27, Jellybones_30, Jobypre_21, John316_30, Jormungandr_27, Jubie_21, Kabluna_46, Kamiyu_31, Kaseim_27, Keshu_26, Keziacharles14_31, KilKor_21, KingCyrus_33, Kingsolomon_21, KirDoubleO7_19, Kraw_28, Kronus_30, Krueger_26, Krypton555_21, Lahirium_27, Lambo_30, LastHope_27, LavAbarElk_28, Lea83_26, Lebo14_28, LestyG_31, Lidong_27, LilPharaoh_23, Lila22_29, LiyuLake_21, Lollipop1437_48, Lolly9_21, LongHai_25, Luchador_33, LuckyLeo_29, Luker_28, Lumos_21, MacnCheese_27, Maco6_22, MalagasyRose_27, Malthus_29, Manilisa_30, Marcoliusprime_23, Marley1013_31, Marlia_31, McMater_27, Mdavu_23, Megiddo_21, MerCougar_44, Milly_23, Mima20_28, MiniLon_21, MiniMac_21, Minos_28, MissDaisy_28, Mitti_28, MmasiCarm_31, MoiGyank_32, Moostard_21, Mortcellus_30, Morty007_31, MrWormie_27, MsGreen_21, Msay19_31, Muddy_24, Mufasa_23, Mulaychimus_31, Mulch_25, Nadeem_25, NancyRae_25, Neoevie_27, Neos5_31, Nettle_30, Newt_28, Nicholas_21, Nikao_23, Niklas_27, Nimi13_27, Nolwazi_29, NorManre_31, NosilaM_46, NovaSharks_29, November_25, Nozo_31, Nutello_23, Obutu_31, Olivio_30, OmniCritical_28, OrangeOswald_31, OtterstedtS21_30, Outis_44, P3MA_22, Panchino_20, Parada_25, ParvusTarda_30, Patio_46, Patos_31, Patt_28, Peanam_27, PenguinLover67_32, Phaedrus_29, Phalm_21, Pharb_26, Phayeta_31, PhelpsODU_26, Philly_30, Phineas_21, Phloss_20, Phlyer_31, Phrank_26, Pipefish_32, Pixie_26, Poland_31, Pywacket_29, Qhanda_29, Quesadilla_31, RagingRooster_31, Ranch_30, RazorC_28, Red305_21, RedRaider_50, Reptar3000_28, Richo_27, Riduram_27, Rita1961_31, RomaT_31, Rota_29, Rukungu_30, Rumi_29, Sadboi_30, Salvus_25, Sampudon_30, Samty_21, Scitech_20, SgtBeansprout_23, Shadow1_25, Shaobing_27, ShedlockHolmes_26, Shelley_27, Shenandoah_31, Shweta_20, SkinnyPete_20, Skysand_45, Slarp_28, SlippinJimmy_31, Snenia_21, SororFago_31, Squirty_19, StarStruck_44, Sticker17_27, Stormer_28, StressBall_21, Strobilo_23, Sunflower1121_25, SuperSulley_44, SussRoloMann_25, SwainyDoc_31, SynergyX_31, Syra333_26, TBond007_26, TClif_26, TM4_23, TPA4_24, Teal_27, Teejan_23, Tierra_26, Tigress9_26, Tillicus_29, TingHuaYa_27, TinyTerror_31, Torres_23, TriFive_21, TribleTrouble_25, Trice_23, Tydolla_31, Typha_27, Unicorn_26, Validus_27, Vanisoa_30, Vordorf_29, WheatThin_25, Whirlwind_22, Willsammy_21, Wintermute_28, Woes_27, Wojtek_29, Xeno_20, Ximenita_27, Y10_28, Y2_28, Yahalom_31, YasnayaPolyana_28, Yikes_31, Yinz_31, Yuna_28, Zany_29, ZoeJ_23,

Summary by start number:

Start 1:
• Found in 17 of 717 (2.4%) of genes in pham
• Manual Annotations of this start: 1 of 638
• Called 5.9% of time when present
• Phage (with cluster) where this start called: Fortunato_28 (B4),

Start 5:
• Found in 44 of 717 (6.1%) of genes in pham
• Manual Annotations of this start: 38 of 638
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Aaravos_27 (DV), Alephilan_27 (DV), Alyssamiracle_30 (DV), Apeppi_27 (DV), Astralis_27 (DV), Avian_27 (DV), BirthdayBoy_31 (DV), Charminar_27 (DV), DaviePasture_30 (DV), DoobyDoo_29 (DV), Erutan_30 (DV), Fulcrum_31 (DV), GOATification_31 (DV), Genamy16_30 (DV), Gibbin_31 (DV), GretelLyn_30 (DV), Jalebi_29 (DV), Jamemuya19_27 (DV), Lambo_30 (DV), LavAbarElk_28 (DV), Lila22_29 (DV), LuckyLeo_29 (DV), Mima20_28 (DV), MoiGyank_32 (DV), Nettle_30 (DV), NorManre_31 (DV), NovaSharks_29 (DV), OtterstedtS21_30 (DV), ParvusTarda_30 (DV), Patos_31 (DV), Pywacket_29 (DV), Ranch_30 (DV), RazorC_28 (DV), Riduram_27 (DV), Rota_29 (DV), Rukungu_30 (DV), Rumi_29 (DV), Sadboi_30 (DV), Sampudon_30 (DV), Stormer_28 (DV), Tillicus_29 (DV), Wojtek_29 (DV), Yikes_31 (DV), Zany_29 (DV),

Start 6:
• Found in 37 of 717 (5.2%) of genes in pham
• Manual Annotations of this start: 35 of 638
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Anamika_27 (CS3), Beaver_30 (CS2), Berries_27 (CS3), Bianmat_27 (CS3), BillyBobJr_31 (CS2), BirksAndSocks_30 (CS2), Boneham_30 (CS2), Butterball_30 (CS2), Charianelly_27 (CS3), CinnamonToast_31 (CS2), Damp_27 (CS3), Diabla_29 (CS2), FelixAlejandro_31 (CS2), GalacticEye_27 (CS3), Guillaume_27 (CS3), Hail2Pitt_27 (CS3), Harambe_27 (CS3), Hello_27 (CS3), Jams_27 (CS3), Jellybones_30 (CS2), John316_30 (CS2), Jormungandr_27 (CS3), Kaseim_27 (CS3), Lahirium_27 (CS3), Lidong_27 (CS3), Luker_28 (CS3), Minos_28 (CS3), MrWormie_27 (CS3), Msay19_31 (CS2), Neoevie_27 (CS3), Newt_28 (CS3), Nimi13_27 (CS3), Poland_31 (CS2), Shelley_27 (CS3), Sticker17_27 (CS3), Teal_27 (CS3), Woes_27 (CS3),

Start 8:
• Found in 1 of 717 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 638
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Squirty_19 (F3),

Start 9:
• Found in 19 of 717 (2.6%) of genes in pham
• Manual Annotations of this start: 17 of 638
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Andies_20 (N), CactusJack_21 (P1), Dynamo_21 (P1), Fulbright_20 (N), Gavriela_21 (P1), Glaske_21 (P1), Impisi_21 (N), KilKor_21 (P1), Megiddo_21 (P1), Panchino_20 (N), Phalm_21 (P1), Phineas_21 (P1), Phloss_20 (N), Scitech_20 (N), Shweta_20 (N), SkinnyPete_20 (N), StressBall_21 (P1), Willsammy_21 (P1), Xeno_20 (N),

Start 10:
• Found in 3 of 717 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 638
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Dogfish_28 (DT), Manilisa_30 (DT), Vordorf_29 (DT),

Start 18:
• Found in 24 of 717 (3.3%) of genes in pham
• Manual Annotations of this start: 19 of 638

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bellis_21 (L3), BourbonZero_20 (L3), Clautastrophe_21 (L3), DuncansLeg_21 (L3), Ellson_21 (L3), Finnry_21 (L3), Jobypre_21 (L3), Jubie_21 (L3), Kingsolomon_21 (L3), KirDoubleO7_19 (L3), Krypton555_21 (L3), LiyuLake_21 (L3), Lolly9_21 (L3), Lumos_21 (L3), MiniLon_21 (L3), MiniMac_21 (L3), Moostard_21 (L3), MsGreen_21 (L3), Nicholas_21 (L3), Red305_21 (L3), Samty_21 (L3), Snenia_21 (L3), TriFive_21 (L3), Whirlwind_22 (L3),

Start 19:
• Found in 15 of 717 (2.1%) of genes in pham
• Manual Annotations of this start: 14 of 638
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ayotoya_25 (DI), BetterKatz_25 (DI), Bock_25 (DI), Brylie_25 (DI), Chop_25 (DI), DelRio_26 (DI), Francois_25 (DI), GrandSlam_25 (DI), Hamood_25 (DI), Mulch_25 (DI), Nadeem_25 (DI), NancyRae_25 (DI), Parada_25 (DI), SussRoloMann_25 (DI), WheatThin_25 (DI),

Start 20:
• Found in 16 of 717 (2.2%) of genes in pham
• Manual Annotations of this start: 4 of 638
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Gail_31 (A14), Keziacharles14_31 (A9), Luchador_33 (A14), SororFago_31 (A14),

Start 21:
• Found in 3 of 717 (0.4%) of genes in pham
• Manual Annotations of this start: 3 of 638
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ChipMunk_33 (A2), EvilGenius_33 (A2), KingCyrus_33 (A2),

Start 22:
• Found in 3 of 717 (0.4%) of genes in pham
• Manual Annotations of this start: 2 of 638
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Arissanae_31 (A9), Vanisoa_30 (A9),

Start 24:
• Found in 64 of 717 (8.9%) of genes in pham
• Manual Annotations of this start: 60 of 638
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amelie_23 (K1), Amgine_25 (K6), Amohnition_26 (K6), Applecrisp_25 (K6), Biglebops_23 (K1), BoostSeason_23 (K2), Bryler_26 (K6), Cain_26 (K6), Chavito_27 (K1), DarthP_26 (K6), Dartin_27 (K1), DismalFunk_23 (K2), DismalStressor_23 (K2), Doughnut_23 (K2), Ekdilam_24 (K6), Ellie_24 (K6), Enkosi_23 (K1), Fefferhead_26 (K6), Findley_23 (K2), Hammy_26 (K6), Hurricane_26 (K3), Keshu_26 (K3), Krueger_26 (K6), Lavahound_25 (K6), Lea83_26 (K3), LilPharaoh_23 (K1), MacnCheese_27 (K3), Marcoliusprime_23 (K2), McMater_27 (K1), Mdavu_23 (K1), Milly_23 (K2), Mufasa_23 (K2), Nikao_23 (K1), Niklas_27 (K1), November_25 (K6), Nutello_23 (K1), Peanam_27 (K1), Pharb_26 (K3), PhelpsODU_26 (K6), Phrank_26 (K6), Pixie_26 (K3), Richo_27 (K1), SgtBeansprout_23 (K1), Shadow1_25 (K6), Shaobing_27 (K1), ShedlockHolmes_26 (K3), Strobilo_23 (K2), Sunflower1121_25 (K6), Syra333_26 (K6), TBond007_26

(K3), TClif_26 (K6), TM4_23 (K2), TPA4_24 (singleton), Teejan_23 (K1), Tierra_26 (K6), Tigress9_26 (K6), Torres_23 (K1), TribleTrouble_25 (K3), Trice_23 (K1), Unicorn_26 (K6), Validus_27 (K1), Ximenita_27 (K6), Yuna_28 (K6), ZoeJ_23 (K2),

Start 28:
• Found in 58 of 717 (8.1%) of genes in pham
• Manual Annotations of this start: 52 of 638
• Called 94.8% of time when present
• Phage (with cluster) where this start called: Abinghost_31 (B3), Akoma_31 (B3), Athena_32 (B3), Audrey_31 (B3), Baloo_31 (B3), Ben11_30 (B3), Bernardo_31 (B3), Briakila_31 (B3), Casbah_30 (B3), ChaChing_31 (B3), Chalmers_31 (B3), Chandler_31 (B3), Chentzyk_30 (B3), Compostia_32 (B3), Corofin_31 (B3), Daisy_31 (B3), Deenasa_31 (B3), Devonte_31 (B3), Gadjet_32 (B3), Gervas_31 (B3), GlenHope_32 (B3), Glubnar_32 (B3), Halfpint_30 (B3), HarveySr_31 (B3), Heathcliff_31 (B3), Jackstina_28 (B3), Kamiyu_31 (B3), Kronus_30 (B3), LestyG_31 (B3), Marley1013_31 (B3), Marlia_31 (B3), MmasiCarm_31 (B3), Mortcellus_30 (B3), Morty007_31 (B3), Mulaychimus_31 (B3), Neos5_31 (B3), Nozo_31 (B3), Obutu_31 (B3), Olivio_30 (B3), OrangeOswald_31 (B3), Phaedrus_29 (B3), Phayeta_31 (B3), Philly_30 (B3), Phlyer_31 (B3), Pipefish_32 (B3), RagingRooster_31 (B3), RomaT_31 (B3), Shenandoah_31 (B3), SlippinJimmy_31 (B3), SwainyDoc_31 (B3), SynergyX_31 (B3), TinyTerror_31 (B3), Tydolla_31 (B3), Yahalom_31 (B3), Yinz_31 (B3),

Start 31:
• Found in 10 of 717 (1.4%) of genes in pham
• Manual Annotations of this start: 6 of 638
• Called 60.0% of time when present
• Phage (with cluster) where this start called: AuntGwenStacy_27 (Y), Bipper_27 (Y), Cracklewink_27 (Y), Faiyaz_27 (Y), Hilltopfarm_27 (Y), Typha_27 (Y),

Start 33:
• Found in 2 of 717 (0.3%) of genes in pham
• Manual Annotations of this start: 2 of 638
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CRB2_33 (B9), PenguinLover67_32 (B9),

Start 35:
• Found in 1 of 717 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 638
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Indlovu_28 (B11),

Start 36:
• Found in 10 of 717 (1.4%) of genes in pham
• Manual Annotations of this start: 1 of 638
• Called 10.0% of time when present
• Phage (with cluster) where this start called: Quesadilla_31 (B9),

Start 37:
• Found in 393 of 717 (54.8%) of genes in pham
• Manual Annotations of this start: 342 of 638
• Called 98.5% of time when present

• Phage (with cluster) where this start called: ABU_31 (B1), AbsoluteMadLad_30 (B1), Acadian_30 (B5), Adriana_31 (B1), Aelin_30 (B1), Ahwei_27 (B4), AlanGrant_29 (B4), Aleia_31 (B1), AltPhacts_31 (B1), Altwerkus_30 (B1), Anderson_31 (B1), Andre_31 (B1), AngelCake_31 (B1), Antihero_27 (B4), Antonia_30 (B1), Aonishiki_31 (B1), Apex_28 (B4), Apizium_30 (B1), Ashraf_30 (B1), Austelle_29 (B4), Azuria_30 (B1), Badfish_31 (B1), Baee_29 (B5), Banjo_30 (B1), Basato_32 (B1), BatteryCK_30 (B1), Beaglebox_30 (B1), Bishoperium_30 (B1), BlackStallion_31 (B1), BlacksBerry_30 (B1), BlueHusk_31 (B1), Bluephacebaby_30 (B1), BobbyK_28 (B4), Boehler_31 (B1), BoogieWoogie_31 (B1), Brilliant_31 (B1), BrownCNA_29 (B4), Buckeye_31 (B1), Burr_30 (B1), CamL_31 (B1), CampRoach_31 (B1), Cannibal_31 (B1), Carthage_29 (B1), Caspiboi_30 (B1), Chaelin_31 (B1), Chah_32 (B1), Charles1_31 (B1), CharlieGBrown_30 (B1), CheetO_31 (B1), Cher_30 (B1), Childish_30 (B1), Chipette_32 (B1), Chorkpop_31 (B1), ChrisnMich_27 (B4), Chuni_31 (B1), Chunky_31 (B1), Chute_31 (B1), Cobra_31 (B1), Colbert_31 (B1), Coletti_31 (B1), Cooper_28 (B4), Cornbread_30 (B1), Cornobble_30 (B1), Cosmolli16_30 (B1), Craff_31 (B1), Crownjwl_31 (B1), DaddyDaniels_31 (B1), Daffy_31 (B1), Daka_31 (B1), Dati_31 (B1), DelRivs_30 (B1), Derpp_30 (B1), Dice_30 (B1), DigitDog_30 (B5), Dingo_31 (B1), Dione_30 (B1), DirtJuice_31 (B1), Doddsville_31 (B1), DoesntMatter_31 (B1), DolOn_32 (B1), DonSanchon_30 (B1), Donny_30 (B5), DuchessDung_29 (B1), Duggie_30 (B1), Durga_31 (B1), EastView9101_29 (B5), ElvisPhasley_31 (B1), EmGer13_30 (B1), Emiris_31 (B1), EmpTee_31 (B1), Epah_27 (B4), Eremos_31 (B1), Etaye_31 (B1), Eugenia_31 (B1), Fanaw_27 (B4), Fang_31 (B1), Flake_31 (B1), FleetyMac_31 (B1), FluffyNinja_31 (B1), Fozzie_30 (B1), Frankicide_31 (B1), Frederick_28 (B4), FremontTroll_30 (B1), Freya_30 (B1), FriarPreacher_31 (B1), Fringe_31 (B1), FugateOSU_30 (B1), Gareth_30 (B1), GeneCoco_31 (B1), GinPorsche_27 (B4), Giraffe_31 (B1), Gophee_31 (B1), Grand2040_30 (B1), GreenChile_31 (B1), Gwennie1_31 (B1), Gwilliam_31 (B1), Gyarad_0031 (B1), HSavage_31 (B1), Haimas_31 (B1), Haleema_30 (B1), Hally898_27 (B4), Hamish_31 (B1), Hangman_28 (B4), Happabalu_31 (B1), Hartsy_31 (B1), Harvey_31 (B1), Hashim76_34 (B13), Heath_27 (B4), Hekos_28 (B1), Held_31 (B1), HenryJackson_30 (B1), Hertubise_31 (B1), Hetaeria_31 (B1), HighStump_30 (B1), Hocus_30 (B1), HogWash_30 (B1), Horchata_31 (B1), Hydro_28 (B4), ImtiyazSitla_30 (B1), Imvubu_24 (B10), Inchworm_31 (B1), Inverness_31 (B1), Iridessa_31 (B1), Iridoclysis_31 (B1), IsaacEli_31 (B1), JAMaL_28 (B4), JDog_30 (B1), JacAttac_31 (B1), JaguarMi_28 (B4), JakeO_30 (B1), JangoPhett_31 (B1), Jbug01_30 (B1), Jesabah_31 (B1), Jillium_30 (B1), Jiminy_30 (B1), Jiraiya_30 (B1), JoyceMaria_28 (B4), KLucky39_31 (B1), Kahve_30 (B1), Kailash_31 (B1), KarasumaRum_32 (B5), Karn_30 (B1), Katniss_31 (B1), Keitherie_31 (B1), Khan1_30 (B1), Kikipoo_31 (B1), Kimbrough_31 (B1), KingTut_22 (B1), KingVeVeVe_31 (B1), Kiwot_30 (B1), KlimbOn_31 (B1), Kloppinator_31 (B1), Knocker_32 (B9), Kwadwo_30 (B1), Kwksand96_30 (B1), Labeouficaum_30 (B1), Lambano_27 (B4), Larson_32 (B1), LasagnaCat_31 (B1), Lasso_31 (B1), LeeLot_31 (B1), Lego3393_31 (B1), Legolas_30 (B1), Lehmann_31 (B1), LeiMonet_31 (B1), LemonSlice_31 (B1), LittleDigger_27 (B4), Lolalove_28 (B4), Longacauda_30 (B1), Lopsy_30 (B1), LostAndPhound_30 (B1), LuckyMarjie_30 (B1), Lulumae_30 (B1), Lulwa_31 (B1), Lumine_30 (B1), MRabcd_30 (B1), Mag7_30 (B1), Magic8_31 (B1), Magpie_27 (B4), Mana_30 (B1), Manad_30 (B1), Maru_30 (B1), Maskar_30 (B1), Matalotodo_31 (B1), Mcshane_30 (B1), Mecca_30 (B1), Megamind20_31 (B1), Megatron_31 (B1), Melc17_31 (B1), MelsMeow_30 (B1), Mesh1_31 (B1), Mesmerelda_30 (B1), MichaelPhcott_30 (B1), Mikota_31 (B1), MiniBoss_31 (B1), MitKao_31 (B1), Mithril_28 (B4), Morgushi_31 (B1), Morty_31 (B1), Mosaic_30 (B1), MrPhizzler_31 (B1), Mudslide_28 (B4), Mulan_30 (B1), Murdoc_31 (B1), Mutante_30 (B1), Mysterious_30 (B5), Nacho_0031 (B1), Nanao_27

(B4), Nangang_30 (B5), Nathan_31 (B1), Nehemiah_29 (B5), Nehme_30 (B1), Newman_31 (B1), NiaNia_32 (B1), Nicole21_31 (B1), Nigel_26 (B4), Nova1_30 (B1), Numberten_31 (B1), Nyala_30 (B1), OSmaximus_31 (B1), Olak_30 (B1), Oline_30 (B1), Olive_31 (B1), OliverWalter_31 (B1), Omniscient_31 (B1), OneBrain_31 (B1), Oosterbaan_31 (B1), Orfeu_30 (B1), Orion_31 (B1), Orwigg_30 (B1), PG1_31 (B1), Pacifista_30 (B1), PallasAthena_30 (B1), Phamished_31 (B1), Phareon_31 (B1), PhatCats2014_31 (B1), PhatLouie_31 (B1), Phelemich_30 (B5), PhenghisKhan_30 (B1), Pherdinand_31 (B1), Phergie_30 (B1), Phipps_31 (B1), Phleuron_30 (B1), PhrankReynolds_30 (B1), PhrodoBaggins_30 (B1), Phunky_31 (B1), Piglet_0030 (B1), PinheadLarry_31 (B1), Pinkman_30 (B1), Pipsqueak_31 (B1), Placalicious_30 (B1), Plata_30 (B1), Plmatters_31 (B1), Podrick_31 (B1), Pops_31 (B1), Poster_27 (B4), Potter_30 (B1), Prickles_31 (B1), Prince_28 (B4), ProfessorX_31 (B1), Puhltonio_31 (B1), QueenBeane_31 (B1), QueenPie_27 (B4), Quisquiliae_31 (B1), RawrgerThat_28 (B4), Reccee_30 (B5), RedMaple_30 (B1), RedRaider89_32 (B1), Renkei_27 (B4), Reprobate_30 (B5), Rich_29 (B5), Ricotta_30 (B1), Riggan_31 (B1), Rimu_31 (B1), Rita130_30 (B5), Riverton_31 (B1), Robyn_30 (B1), Roliet_31 (B1), Roscoe_32 (B1), Roy17_31 (B1), SDcharge11_31 (B1), Saguaro_31 (B7), Salazzle_31 (B1), SallyH_31 (B1), Samaymay_31 (B1), SassyCat97_30 (B1), Schadenfreude_30 (B1), Schueller_30 (B1), Scoot17C_31 (B1), Scrick_31 (B1), Selr12_31 (B1), Septica_30 (B1), Serendipitous_29 (B5), Serendipity_31 (B1), Serpentine_0031 (B1), ShadowBud_31 (B1), Sheila_31 (B1), Shenyu_30 (B5), ShiVal_31 (B1), Sigman_31 (B1), SilverBell_31 (B1), Simielle_30 (B1), SirBeauregard_31 (B1), SirJeffery_30 (B5), Skippy_31 (B1), Slatt_31 (B1), Soile_31 (B1), Solosis_30 (B1), Sophia_30 (B1), Soto_31 (B1), Spartan300_31 (B1), Squid_31 (B1), Squiggle_31 (B1), Stinger_26 (B4), StinkyVeggy_32 (B5), Struggle_30 (B1), Suffolk_31 (B1), Suigeneris_30 (B5), Surely_31 (B1), Swiphy_31 (B1), Swish_31 (B1), TallGrassMM_31 (B1), Taraxa_30 (B1), Telesworld_30 (B1), Thonko_29 (B8), Thora_31 (B1), ThreeOh3D2_31 (B1), Thunderbird_30 (B1), Timmi_30 (B1), TomBombadil_31 (B1), Tomlarah_31 (B1), Toni_30 (B1), TooFast2Furius_32 (B1), Tooj_31 (B1), Triad_31 (B1), True_30 (B1), Trypo_31 (B1), TyrionL_30 (B1), UAch1_31 (B1), UncleHowie_31 (B1), Usavi_31 (B1), Vaishali24_30 (B1), Valjean_31 (B1), Vaticameos_31 (B1), Vectra_30 (B1), Veritas_30 (B1), Vincenzo_29 (B4), VioletZ_28 (B4), Virapocalypse_31 (B1), Virgeve_30 (B1), Vista_31 (B1), Vivaldi_31 (B1), Vortex_31 (B1), Waleliano_28 (B4), Wallhey_30 (B1), Waterdiva_31 (B1), Weher20_31 (B1), Windsor_30 (B1), Xavier_30 (B1), Xincheng_27 (B4), Yoshand_31 (B1), YouGoGlencoco_31 (B1), Zaider_32 (B1), Zelda_31 (B1), Zemanar_29 (B4), Zenteno07_34 (B13), Zonia_31 (B1),

Start 38:
• Found in 6 of 717 (0.8%) of genes in pham
• Manual Annotations of this start: 2 of 638
• Called 100.0% of time when present
• Phage (with cluster) where this start called: 8UZL_24 (AB), FF47_24 (AB), LongHai_25 (AB), Maco6_22 (AB), Muddy_24 (AB), Salvus_25 (AB),

Start 40:
• Found in 59 of 717 (8.2%) of genes in pham
• Manual Annotations of this start: 1 of 638
• Called 1.7% of time when present
• Phage (with cluster) where this start called: Rita1961_31 (B3),

Start 50:
• Found in 1 of 717 (0.1%) of genes in pham

• Manual Annotations of this start: 1 of 638
• Called 100.0% of time when present
• Phage (with cluster) where this start called: P3MA_22 (singleton),

Start 61:
• Found in 15 of 717 (2.1%) of genes in pham
• Manual Annotations of this start: 1 of 638
• Called 6.7% of time when present
• Phage (with cluster) where this start called: MalagasyRose_27 (AG),

Start 66:
• Found in 22 of 717 (3.1%) of genes in pham
• Manual Annotations of this start: 18 of 638
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bobquesha_29 (K4), Chancellor_28 (K4), Cheetobro_28 (K4), Fionnbharth_28 (K4), JF1_28 (K4), Kraw_28 (K4), LastHope_27 (K1), Lebo14_28 (K4), Malthus_29 (K4), MissDaisy_28 (K4), Mitti_28 (K4), Nolwazi_29 (K4), OmniCritical_28 (K4), Patt_28 (K4), Qhanda_29 (K4), Reptar3000_28 (K4), Slarp_28 (K4), TingHuaYa_27 (K1), Wintermute_28 (K4), Y10_28 (K4), Y2_28 (K4), YasnayaPolyana_28 (K4),

Start 70:
• Found in 3 of 717 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 638
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Curiosium_28 (K1),

Start 78:
• Found in 16 of 717 (2.2%) of genes in pham
• Manual Annotations of this start: 15 of 638
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bonum_46 (CR2), Buggaboo_44 (CR2), Ennea_49 (CR3), Flapper_47 (CR1), Float294_45 (CR3), GTE5_34 (CR1), Kabluna_46 (CR2), Lollipop1437_48 (CR3), MerCougar_44 (CR2), NosilaM_46 (CR2), Outis_44 (CR2), Patio_46 (CR3), RedRaider_50 (CR3), Skysand_45 (CR3), StarStruck_44 (CR2), SuperSulley_44 (CR2),

Summary by clusters:

There are 34 clusters represented in this pham: singleton, DI, B11, K3, K2, K1, AB, K6, B10, K4, DV, DT, A14, A2, A9, CS3, CS2, P1, AG, N, F3, L3, Y, CR2, CR3, CR1, B4, B5, B7, B1, B3, B8, B9, B13,

Info for manual annotations of cluster A14:
•Start number 20 was manually annotated 3 times for cluster A14.

Info for manual annotations of cluster A2:
•Start number 21 was manually annotated 3 times for cluster A2.

Info for manual annotations of cluster A9:
•Start number 20 was manually annotated 1 time for cluster A9.
•Start number 22 was manually annotated 2 times for cluster A9.

Info for manual annotations of cluster AB:
•Start number 38 was manually annotated 2 times for cluster AB.

Info for manual annotations of cluster AG:
•Start number 61 was manually annotated 1 time for cluster AG.

Info for manual annotations of cluster B1:
•Start number 37 was manually annotated 297 times for cluster B1.

Info for manual annotations of cluster B10:
•Start number 37 was manually annotated 1 time for cluster B10.

Info for manual annotations of cluster B11:
•Start number 35 was manually annotated 1 time for cluster B11.

Info for manual annotations of cluster B13:
•Start number 37 was manually annotated 2 times for cluster B13.

Info for manual annotations of cluster B3:
•Start number 28 was manually annotated 52 times for cluster B3.
•Start number 40 was manually annotated 1 time for cluster B3.

Info for manual annotations of cluster B4:
•Start number 1 was manually annotated 1 time for cluster B4.
•Start number 37 was manually annotated 28 times for cluster B4.

Info for manual annotations of cluster B5:
•Start number 37 was manually annotated 11 times for cluster B5.

Info for manual annotations of cluster B7:
•Start number 37 was manually annotated 1 time for cluster B7.

Info for manual annotations of cluster B8:
•Start number 37 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster B9:
•Start number 33 was manually annotated 2 times for cluster B9.
•Start number 36 was manually annotated 1 time for cluster B9.
•Start number 37 was manually annotated 1 time for cluster B9.

Info for manual annotations of cluster CR1:
•Start number 78 was manually annotated 1 time for cluster CR1.

Info for manual annotations of cluster CR2:
•Start number 78 was manually annotated 8 times for cluster CR2.

Info for manual annotations of cluster CR3:
•Start number 78 was manually annotated 6 times for cluster CR3.

Info for manual annotations of cluster CS2:
•Start number 6 was manually annotated 10 times for cluster CS2.

Info for manual annotations of cluster CS3:

•Start number 6 was manually annotated 25 times for cluster CS3.

Info for manual annotations of cluster DI:
•Start number 19 was manually annotated 14 times for cluster DI.

Info for manual annotations of cluster DT:
•Start number 10 was manually annotated 1 time for cluster DT.

Info for manual annotations of cluster DV:
•Start number 5 was manually annotated 38 times for cluster DV.

Info for manual annotations of cluster F3:
•Start number 8 was manually annotated 1 time for cluster F3.

Info for manual annotations of cluster K1:
•Start number 24 was manually annotated 16 times for cluster K1.
•Start number 66 was manually annotated 1 time for cluster K1.
•Start number 70 was manually annotated 1 time for cluster K1.

Info for manual annotations of cluster K2:
•Start number 24 was manually annotated 11 times for cluster K2.

Info for manual annotations of cluster K3:
•Start number 24 was manually annotated 9 times for cluster K3.

Info for manual annotations of cluster K4:
•Start number 66 was manually annotated 17 times for cluster K4.

Info for manual annotations of cluster K6:
•Start number 24 was manually annotated 24 times for cluster K6.

Info for manual annotations of cluster L3:
•Start number 18 was manually annotated 19 times for cluster L3.

Info for manual annotations of cluster N:
•Start number 9 was manually annotated 7 times for cluster N.

Info for manual annotations of cluster P1:
•Start number 9 was manually annotated 10 times for cluster P1.

Info for manual annotations of cluster Y:
•Start number 31 was manually annotated 6 times for cluster Y.

Gene Information:

Gene: 8UZL_24 Start: 19399, Stop: 21717, Start Num: 38
Candidate Starts for 8UZL_24:
(Start: 38 @19399 has 2 MA's), (106, 19600), (128, 19645), (131, 19657), (168, 19768), (192, 19834), (229, 19975), (262, 20107), (276, 20146), (280, 20158), (291, 20197), (297, 20215), (306, 20251), (324, 20311), (351, 20386), (356, 20413), (371, 20476), (395, 20533), (482, 20728), (514, 20797), (527, 20815), (529, 20821), (530, 20824), (531, 20827), (542, 20851), (572, 20944), (575, 20950),

(612, 21028), (629, 21076), (630, 21079), (655, 21157), (677, 21223), (681, 21235), (706, 21298), (712, 21319), (720, 21340), (735, 21397), (742, 21418), (760, 21457), (782, 21499), (797, 21532), (801, 21538), (804, 21553), (835, 21637),

Gene: ABU_31 Start: 28756, Stop: 31011, Start Num: 37
Candidate Starts for ABU_31:
(Start: 37 @28756 has 342 MA's), (74, 28852), (98, 28930), (104, 28957), (143, 29056), (192, 29215), (237, 29395), (244, 29419), (269, 29509), (271, 29515), (283, 29551), (295, 29590), (298, 29599), (306, 29632), (316, 29671), (334, 29716), (351, 29767), (361, 29818), (363, 29827), (380, 29896), (410, 29971), (426, 30016), (429, 30031), (469, 30166), (492, 30220), (499, 30241), (509, 30274), (530, 30319), (551, 30373), (583, 30457), (590, 30478), (614, 30520), (625, 30559), (642, 30619), (728, 30859), (736, 30892), (737, 30895), (751, 30928), (756, 30934), (789, 30997),

Gene: Aaravos_27 Start: 26028, Stop: 28028, Start Num: 5
Candidate Starts for Aaravos_27:
(Start: 5 @26028 has 38 MA's), (29, 26142), (34, 26151), (39, 26160), (41, 26163), (45, 26172), (73, 26241), (91, 26298), (209, 26679), (218, 26712), (249, 26835), (252, 26841), (300, 26985), (306, 27012), (344, 27141), (353, 27165), (380, 27300), (394, 27333), (468, 27606), (475, 27630), (551, 27840), (553, 27846), (567, 27876), (578, 27909),

Gene: Abinghost_31 Start: 28613, Stop: 30838, Start Num: 28
Candidate Starts for Abinghost_31:
(Start: 28 @28613 has 52 MA's), (Start: 40 @28628 has 1 MA's), (59, 28673), (79, 28730), (105, 28808), (135, 28877), (143, 28889), (158, 28931), (169, 28967), (179, 28994), (183, 29006), (190, 29033), (211, 29123), (229, 29195), (252, 29279), (286, 29387), (291, 29408), (316, 29501), (323, 29516), (360, 29645), (380, 29726), (410, 29801), (425, 29843), (426, 29849), (453, 29948), (469, 29999), (473, 30011), (492, 30053), (499, 30074), (521, 30128), (530, 30152), (546, 30188), (583, 30284), (586, 30293), (614, 30347), (645, 30455), (656, 30482), (672, 30524), (701, 30596), (728, 30686), (737, 30722),

Gene: AbsoluteMadLad_30 Start: 28765, Stop: 31020, Start Num: 37
Candidate Starts for AbsoluteMadLad_30:
(Start: 37 @28765 has 342 MA's), (74, 28861), (98, 28939), (104, 28966), (143, 29065), (192, 29224), (237, 29404), (244, 29428), (271, 29524), (283, 29560), (295, 29599), (298, 29608), (306, 29641), (316, 29680), (334, 29725), (351, 29776), (361, 29827), (363, 29836), (380, 29905), (410, 29980), (426, 30025), (429, 30040), (469, 30175), (492, 30229), (499, 30250), (509, 30283), (530, 30328), (551, 30382), (583, 30466), (590, 30487), (614, 30529), (625, 30568), (642, 30628), (728, 30868), (736, 30901), (737, 30904), (751, 30937), (756, 30943), (789, 31006),

Gene: Acadian_30 Start: 28978, Stop: 31254, Start Num: 37
Candidate Starts for Acadian_30:
(Start: 37 @28978 has 342 MA's), (Start: 40 @28984 has 1 MA's), (56, 29026), (63, 29047), (67, 29056), (85, 29110), (90, 29131), (97, 29149), (98, 29152), (113, 29194), (116, 29200), (118, 29212), (143, 29281), (151, 29317), (192, 29440), (218, 29545), (258, 29701), (266, 29728), (280, 29779), (295, 29830), (300, 29845), (361, 30058), (368, 30094), (380, 30136), (410, 30211), (453, 30361), (461, 30385), (469, 30412), (499, 30487), (521, 30541), (583, 30700), (586, 30709), (590, 30721), (625, 30802), (626, 30805), (645, 30871), (664, 30919), (689, 30985), (728, 31102),

Gene: Adriana_31 Start: 28754, Stop: 31009, Start Num: 37
Candidate Starts for Adriana_31:
(Start: 37 @28754 has 342 MA's), (74, 28850), (98, 28928), (104, 28955), (143, 29054), (192, 29213), (237, 29393), (244, 29417), (269, 29507), (271, 29513), (283, 29549), (295, 29588), (298, 29597), (306, 29630), (316, 29669), (334, 29714), (351, 29765), (361, 29816), (363, 29825), (380, 29894),

(410, 29969), (426, 30014), (429, 30029), (469, 30164), (492, 30218), (499, 30239), (509, 30272), (530, 30317), (551, 30371), (563, 30398), (583, 30455), (590, 30476), (614, 30518), (625, 30557), (642, 30617), (728, 30857), (736, 30890), (737, 30893), (751, 30926), (756, 30932), (789, 30995),

Gene: Aelin_30 Start: 28317, Stop: 30575, Start Num: 37
Candidate Starts for Aelin_30:
(Start: 37 @28317 has 342 MA's), (74, 28413), (98, 28491), (104, 28518), (143, 28620), (192, 28779), (237, 28959), (244, 28983), (271, 29079), (283, 29115), (295, 29154), (298, 29163), (306, 29196), (316, 29235), (334, 29280), (351, 29331), (361, 29382), (363, 29391), (380, 29460), (410, 29535), (426, 29580), (429, 29595), (469, 29730), (492, 29784), (499, 29805), (509, 29838), (530, 29883), (551, 29937), (563, 29964), (583, 30021), (590, 30042), (614, 30084), (625, 30123), (642, 30183), (728, 30423), (737, 30459), (751, 30492), (789, 30561),

Gene: Ahwei_27 Start: 27941, Stop: 30238, Start Num: 37
Candidate Starts for Ahwei_27:
(Start: 37 @27941 has 342 MA's), (74, 28040), (104, 28145), (118, 28181), (143, 28244), (167, 28325), (189, 28391), (192, 28403), (218, 28508), (228, 28547), (241, 28598), (244, 28607), (265, 28688), (266, 28691), (283, 28754), (296, 28796), (300, 28808), (335, 28931), (346, 28955), (360, 29018), (367, 29048), (368, 29057), (392, 29129), (399, 29150), (410, 29186), (417, 29207), (436, 29273), (440, 29285), (453, 29336), (457, 29339), (460, 29357), (468, 29381), (476, 29408), (492, 29441), (499, 29462), (509, 29495), (530, 29540), (585, 29681), (586, 29684), (590, 29696), (626, 29780), (672, 29915), (682, 29939), (703, 30002), (710, 30032), (713, 30038), (728, 30086), (736, 30119), (737, 30122), (789, 30224), (790, 30227),

Gene: Akoma_31 Start: 28614, Stop: 30842, Start Num: 28
Candidate Starts for Akoma_31:
(Start: 28 @28614 has 52 MA's), (Start: 40 @28629 has 1 MA's), (59, 28674), (79, 28731), (105, 28809), (135, 28878), (143, 28890), (158, 28932), (169, 28968), (179, 28995), (183, 29007), (190, 29034), (211, 29124), (229, 29196), (252, 29280), (286, 29388), (291, 29409), (316, 29502), (323, 29517), (360, 29646), (380, 29727), (410, 29802), (425, 29844), (426, 29850), (436, 29886), (469, 30000), (473, 30012), (492, 30054), (499, 30075), (521, 30129), (530, 30153), (583, 30288), (586, 30297), (614, 30351), (645, 30459), (656, 30486), (672, 30528), (701, 30600), (728, 30690), (737, 30726),

Gene: AlanGrant_29 Start: 29686, Stop: 31983, Start Num: 37
Candidate Starts for AlanGrant_29:
(Start: 37 @29686 has 342 MA's), (43, 29701), (74, 29785), (79, 29803), (97, 29860), (143, 29989), (218, 30253), (228, 30292), (229, 30298), (237, 30328), (241, 30343), (244, 30352), (265, 30433), (266, 30436), (294, 30535), (295, 30538), (296, 30541), (300, 30553), (335, 30676), (346, 30700), (360, 30763), (368, 30802), (392, 30874), (399, 30895), (404, 30916), (410, 30931), (417, 30952), (426, 30982), (434, 31015), (436, 31018), (440, 31030), (453, 31081), (457, 31084), (460, 31102), (468, 31126), (469, 31132), (492, 31186), (499, 31207), (521, 31261), (530, 31285), (583, 31420), (585, 31426), (586, 31429), (590, 31441), (626, 31525), (672, 31660), (682, 31684), (703, 31747), (713, 31783), (723, 31816), (728, 31831), (736, 31864), (737, 31867), (789, 31969), (790, 31972),

Gene: Aleia_31 Start: 28337, Stop: 30592, Start Num: 37
Candidate Starts for Aleia_31:
(Start: 37 @28337 has 342 MA's), (74, 28433), (98, 28511), (104, 28538), (143, 28637), (192, 28796), (237, 28976), (244, 29000), (271, 29096), (283, 29132), (295, 29171), (298, 29180), (306, 29213), (316, 29252), (334, 29297), (351, 29348), (363, 29408), (380, 29477), (410, 29552), (426, 29597), (429, 29612), (469, 29747), (492, 29801), (499, 29822), (509, 29855), (530, 29900), (551, 29954), (563, 29981), (583, 30038), (590, 30059), (614, 30101), (625, 30140), (642, 30200), (728, 30440), (737, 30476), (751, 30509), (789, 30578),

Gene: Alephilan_27 Start: 25947, Stop: 27947, Start Num: 5
Candidate Starts for Alephilan_27:
(Start: 5 @25947 has 38 MA's), (29, 26061), (34, 26070), (39, 26079), (41, 26082), (45, 26091), (73, 26160), (136, 26346), (192, 26523), (244, 26730), (251, 26757), (252, 26760), (254, 26763), (283, 26850), (298, 26898), (300, 26904), (306, 26931), (344, 27060), (380, 27219), (394, 27252), (405, 27294), (464, 27513), (468, 27525), (473, 27543), (479, 27564), (497, 27600), (551, 27759), (553, 27765), (578, 27825), (617, 27921),

Gene: AltPhacts_31 Start: 28743, Stop: 30998, Start Num: 37
Candidate Starts for AltPhacts_31:
(Start: 37 @28743 has 342 MA's), (74, 28839), (98, 28917), (104, 28944), (143, 29043), (192, 29202), (237, 29382), (244, 29406), (271, 29502), (283, 29538), (295, 29577), (298, 29586), (306, 29619), (316, 29658), (334, 29703), (351, 29754), (361, 29805), (363, 29814), (380, 29883), (410, 29958), (426, 30003), (429, 30018), (469, 30153), (492, 30207), (499, 30228), (509, 30261), (530, 30306), (551, 30360), (563, 30387), (583, 30444), (590, 30465), (614, 30507), (625, 30546), (642, 30606), (728, 30846), (737, 30882), (751, 30915), (789, 30984),

Gene: Altwerkus_30 Start: 28443, Stop: 30698, Start Num: 37
Candidate Starts for Altwerkus_30:
(Start: 37 @28443 has 342 MA's), (74, 28539), (98, 28617), (104, 28644), (143, 28743), (192, 28902), (237, 29082), (244, 29106), (269, 29196), (271, 29202), (283, 29238), (295, 29277), (298, 29286), (306, 29319), (316, 29358), (334, 29403), (351, 29454), (361, 29505), (363, 29514), (380, 29583), (410, 29658), (426, 29703), (429, 29718), (469, 29853), (492, 29907), (499, 29928), (509, 29961), (530, 30006), (551, 30060), (563, 30087), (583, 30144), (590, 30165), (614, 30207), (625, 30246), (642, 30306), (728, 30546), (737, 30582), (751, 30615), (789, 30684),

Gene: Alyssamiracle_30 Start: 24757, Stop: 26757, Start Num: 5
Candidate Starts for Alyssamiracle_30:
(Start: 5 @24757 has 38 MA's), (29, 24871), (34, 24880), (39, 24889), (41, 24892), (45, 24901), (73, 24970), (136, 25156), (192, 25333), (244, 25540), (252, 25570), (264, 25606), (269, 25621), (283, 25660), (298, 25708), (300, 25714), (306, 25741), (327, 25807), (353, 25894), (380, 26029), (394, 26062), (397, 26074), (433, 26203), (455, 26287), (506, 26440), (509, 26452), (541, 26533), (551, 26569), (553, 26575), (578, 26635), (617, 26731),

Gene: Amelie_23 Start: 20414, Stop: 22900, Start Num: 24
Candidate Starts for Amelie_23:
(Start: 24 @20414 has 60 MA's), (44, 20462), (142, 20642), (143, 20645), (164, 20708), (169, 20720), (204, 20852), (214, 20891), (229, 20948), (235, 20972), (238, 20984), (252, 21032), (254, 21035), (267, 21068), (277, 21107), (288, 21140), (291, 21152), (294, 21161), (296, 21167), (311, 21233), (317, 21248), (352, 21359), (357, 21392), (377, 21476), (385, 21491), (406, 21551), (430, 21620), (462, 21740), (496, 21833), (541, 21947), (565, 22025), (568, 22031), (574, 22055), (594, 22118), (596, 22121), (603, 22133), (625, 22199), (627, 22205), (639, 22247), (644, 22268), (645, 22277), (657, 22310), (663, 22328), (685, 22397), (721, 22496), (722, 22502), (728, 22520), (742, 22574), (747, 22589), (766, 22616), (793, 22673),

Gene: Amgine_25 Start: 20975, Stop: 23359, Start Num: 24
Candidate Starts for Amgine_25:
(Start: 24 @20975 has 60 MA's), (Start: 37 @21005 has 342 MA's), (44, 21023), (76, 21107), (169, 21281), (204, 21413), (228, 21503), (238, 21545), (254, 21596), (271, 21638), (272, 21641), (288, 21698), (294, 21722), (296, 21728), (306, 21767), (323, 21824), (352, 21920), (377, 22037), (408, 22106), (424, 22145), (427, 22163), (431, 22175), (480, 22319), (542, 22454), (543, 22457), (544, 22460), (557, 22499), (574, 22553), (625, 22694), (627, 22700), (633, 22715), (635, 22727), (644,

22757), (670, 22844), (674, 22850), (727, 23000), (744, 23063), (758, 23090), (767, 23099), (816, 23201), (823, 23222), (824, 23225), (857, 23333),

Gene: Amohnition_26 Start: 21373, Stop: 23781, Start Num: 24
Candidate Starts for Amohnition_26:
(Start: 24 @21373 has 60 MA's), (26, 21382), (44, 21421), (89, 21544), (142, 21601), (144, 21613), (169, 21679), (172, 21688), (188, 21733), (204, 21811), (228, 21901), (229, 21907), (238, 21943), (254, 21994), (271, 22036), (272, 22039), (276, 22060), (294, 22120), (296, 22126), (352, 22318), (377, 22435), (408, 22504), (424, 22543), (427, 22561), (431, 22573), (480, 22717), (542, 22852), (544, 22858), (557, 22897), (574, 22951), (591, 23005), (625, 23092), (627, 23098), (633, 23113), (635, 23125), (644, 23155), (670, 23242), (674, 23248), (727, 23398), (742, 23452), (817, 23611), (823, 23626), (824, 23629), (857, 23755),

Gene: Anamika_27 Start: 35607, Stop: 37631, Start Num: 6
Candidate Starts for Anamika_27:
(Start: 6 @35607 has 35 MA's), (14, 35655), (23, 35691), (26, 35709), (30, 35718), (44, 35748), (45, 35751), (84, 35862), (122, 35982), (257, 36459), (261, 36468), (294, 36567), (306, 36612), (327, 36678), (353, 36765), (380, 36900), (394, 36933), (479, 37245), (506, 37311), (509, 37323), (541, 37404), (551, 37440), (553, 37446), (566, 37473), (578, 37506), (617, 37602),

Gene: Anderson_31 Start: 28749, Stop: 31004, Start Num: 37
Candidate Starts for Anderson_31:
(Start: 37 @28749 has 342 MA's), (74, 28845), (98, 28923), (104, 28950), (143, 29049), (192, 29208), (237, 29388), (244, 29412), (269, 29502), (271, 29508), (283, 29544), (295, 29583), (298, 29592), (306, 29625), (316, 29664), (334, 29709), (351, 29760), (361, 29811), (363, 29820), (380, 29889), (410, 29964), (426, 30009), (429, 30024), (469, 30159), (492, 30213), (499, 30234), (509, 30267), (530, 30312), (551, 30366), (563, 30393), (583, 30450), (590, 30471), (614, 30513), (625, 30552), (642, 30612), (728, 30852), (736, 30885), (737, 30888), (751, 30921), (756, 30927), (789, 30990),

Gene: Andies_20 Start: 17553, Stop: 20192, Start Num: 9
Candidate Starts for Andies_20:
(7, 17541), (Start: 9 @17553 has 17 MA's), (13, 17565), (15, 17577), (Start: 31 @17631 has 6 MA's), (Start: 61 @17700 has 1 MA's), (62, 17703), (65, 17712), (72, 17727), (129, 17904), (157, 17985), (160, 17994), (183, 18051), (187, 18066), (200, 18117), (215, 18189), (224, 18219), (233, 18255), (247, 18318), (254, 18333), (262, 18360), (265, 18366), (288, 18441), (294, 18465), (296, 18471), (307, 18525), (309, 18531), (337, 18618), (368, 18750), (372, 18768), (382, 18801), (392, 18828), (406, 18879), (468, 19089), (494, 19155), (507, 19191), (544, 19290), (548, 19302), (568, 19365), (627, 19527), (633, 19542), (645, 19593), (685, 19710), (700, 19755), (718, 19797), (728, 19833), (743, 19887), (768, 19935), (833, 20079), (845, 20136), (855, 20175), (859, 20184),

Gene: Andre_31 Start: 28747, Stop: 31002, Start Num: 37
Candidate Starts for Andre_31:
(Start: 37 @28747 has 342 MA's), (74, 28843), (98, 28921), (104, 28948), (143, 29047), (192, 29206), (237, 29386), (244, 29410), (269, 29500), (271, 29506), (283, 29542), (295, 29581), (298, 29590), (306, 29623), (316, 29662), (334, 29707), (351, 29758), (361, 29809), (363, 29818), (380, 29887), (410, 29962), (426, 30007), (429, 30022), (469, 30157), (492, 30211), (499, 30232), (509, 30265), (530, 30310), (551, 30364), (563, 30391), (583, 30448), (590, 30469), (614, 30511), (625, 30550), (642, 30610), (728, 30850), (736, 30883), (737, 30886), (751, 30919), (756, 30925), (789, 30988),

Gene: AngelCake_31 Start: 28767, Stop: 31022, Start Num: 37
Candidate Starts for AngelCake_31:
(Start: 37 @28767 has 342 MA's), (74, 28863), (98, 28941), (104, 28968), (143, 29067), (192, 29226), (237, 29406), (244, 29430), (269, 29520), (271, 29526), (283, 29562), (295, 29601), (298, 29610),

(306, 29643), (316, 29682), (334, 29727), (351, 29778), (361, 29829), (363, 29838), (380, 29907), (410, 29982), (426, 30027), (429, 30042), (469, 30177), (492, 30231), (499, 30252), (509, 30285), (530, 30330), (551, 30384), (563, 30411), (583, 30468), (590, 30489), (614, 30531), (625, 30570), (642, 30630), (728, 30870), (736, 30903), (737, 30906), (751, 30939), (756, 30945), (789, 31008),

Gene: Antihero_27 Start: 27941, Stop: 30238, Start Num: 37
Candidate Starts for Antihero_27:
(Start: 37 @27941 has 342 MA's), (74, 28040), (104, 28145), (118, 28181), (143, 28244), (167, 28325), (189, 28391), (192, 28403), (218, 28508), (228, 28547), (241, 28598), (244, 28607), (265, 28688), (266, 28691), (283, 28754), (296, 28796), (300, 28808), (335, 28931), (346, 28955), (360, 29018), (367, 29048), (368, 29057), (392, 29129), (399, 29150), (410, 29186), (417, 29207), (436, 29273), (440, 29285), (453, 29336), (457, 29339), (460, 29357), (468, 29381), (476, 29408), (492, 29441), (499, 29462), (509, 29495), (530, 29540), (585, 29681), (586, 29684), (590, 29696), (626, 29780), (672, 29915), (682, 29939), (703, 30002), (710, 30032), (713, 30038), (728, 30086), (736, 30119), (737, 30122), (789, 30224), (790, 30227),

Gene: Antonia_30 Start: 28317, Stop: 30575, Start Num: 37
Candidate Starts for Antonia_30:
(Start: 37 @28317 has 342 MA's), (74, 28413), (98, 28491), (104, 28518), (143, 28620), (192, 28779), (237, 28959), (244, 28983), (271, 29079), (283, 29115), (295, 29154), (298, 29163), (306, 29196), (316, 29235), (334, 29280), (351, 29331), (361, 29382), (363, 29391), (380, 29460), (410, 29535), (426, 29580), (429, 29595), (469, 29730), (492, 29784), (499, 29805), (509, 29838), (530, 29883), (551, 29937), (563, 29964), (583, 30021), (590, 30042), (614, 30084), (625, 30123), (642, 30183), (728, 30423), (737, 30459), (751, 30492), (789, 30561),

Gene: Aonishiki_31 Start: 28789, Stop: 31047, Start Num: 37
Candidate Starts for Aonishiki_31:
(Start: 37 @28789 has 342 MA's), (74, 28885), (98, 28963), (104, 28990), (143, 29092), (237, 29431), (244, 29455), (269, 29545), (271, 29551), (283, 29587), (295, 29626), (298, 29635), (306, 29668), (316, 29707), (334, 29752), (351, 29803), (361, 29854), (363, 29863), (380, 29932), (410, 30007), (426, 30052), (429, 30067), (469, 30202), (492, 30256), (499, 30277), (509, 30310), (530, 30355), (551, 30409), (583, 30493), (590, 30514), (614, 30556), (625, 30595), (642, 30655), (728, 30895), (736, 30928), (737, 30931), (751, 30964), (756, 30970), (789, 31033),

Gene: Apeppi_27 Start: 26090, Stop: 28090, Start Num: 5
Candidate Starts for Apeppi_27:
(Start: 5 @26090 has 38 MA's), (29, 26204), (34, 26213), (39, 26222), (41, 26225), (45, 26234), (73, 26303), (91, 26360), (209, 26741), (218, 26774), (249, 26897), (252, 26903), (300, 27047), (306, 27074), (344, 27203), (353, 27227), (380, 27362), (394, 27395), (468, 27668), (475, 27692), (551, 27902), (553, 27908), (567, 27938), (578, 27971),

Gene: Apex_28 Start: 29148, Stop: 31445, Start Num: 37
Candidate Starts for Apex_28:
(Start: 1 @28461 has 1 MA's), (2, 28608), (Start: 37 @29148 has 342 MA's), (74, 29247), (79, 29265), (118, 29388), (143, 29451), (167, 29532), (189, 29598), (218, 29715), (228, 29754), (241, 29805), (244, 29814), (258, 29871), (265, 29895), (266, 29898), (283, 29961), (296, 30003), (300, 30015), (334, 30126), (335, 30138), (346, 30162), (360, 30225), (392, 30336), (399, 30357), (410, 30393), (417, 30414), (436, 30480), (440, 30492), (453, 30543), (457, 30546), (460, 30564), (468, 30588), (476, 30615), (492, 30648), (499, 30669), (509, 30702), (530, 30747), (585, 30888), (586, 30891), (588, 30894), (590, 30903), (626, 30987), (664, 31101), (672, 31122), (682, 31146), (703, 31209), (710, 31239), (713, 31245), (728, 31293), (736, 31326), (737, 31329), (789, 31431), (790, 31434),

Gene: Apizium_30 Start: 28508, Stop: 30766, Start Num: 37

Candidate Starts for Apizium_30:
(Start: 37 @28508 has 342 MA's), (74, 28604), (98, 28682), (104, 28709), (143, 28811), (192, 28970), (237, 29150), (244, 29174), (269, 29264), (271, 29270), (283, 29306), (295, 29345), (298, 29354), (306, 29387), (316, 29426), (334, 29471), (351, 29522), (361, 29573), (363, 29582), (380, 29651), (410, 29726), (426, 29771), (429, 29786), (469, 29921), (492, 29975), (499, 29996), (509, 30029), (530, 30074), (551, 30128), (563, 30155), (583, 30212), (590, 30233), (614, 30275), (625, 30314), (642, 30374), (728, 30614), (736, 30647), (737, 30650), (751, 30683), (756, 30689), (789, 30752),

Gene: Applecrisp_25 Start: 21389, Stop: 23770, Start Num: 24
Candidate Starts for Applecrisp_25:
(Start: 24 @21389 has 60 MA's), (Start: 37 @21419 has 342 MA's), (44, 21437), (76, 21521), (169, 21695), (204, 21827), (228, 21917), (238, 21959), (254, 22010), (271, 22052), (272, 22055), (288, 22112), (294, 22136), (296, 22142), (306, 22181), (323, 22238), (352, 22334), (377, 22451), (408, 22520), (424, 22559), (427, 22577), (431, 22589), (480, 22733), (542, 22868), (543, 22871), (544, 22874), (557, 22913), (574, 22967), (625, 23105), (627, 23111), (633, 23126), (635, 23138), (644, 23168), (670, 23255), (674, 23261), (712, 23366), (721, 23390), (727, 23411), (744, 23474), (823, 23633), (824, 23636), (857, 23744),

Gene: Arissanae_31 Start: 22459, Stop: 24807, Start Num: 22
Candidate Starts for Arissanae_31:
(Start: 20 @22453 has 4 MA's), (Start: 22 @22459 has 2 MA's), (58, 22558), (Start: 70 @22591 has 1 MA's), (95, 22666), (124, 22726), (156, 22816), (191, 22918), (197, 22945), (205, 22981), (226, 23050), (283, 23266), (296, 23308), (323, 23398), (333, 23425), (402, 23572), (406, 23590), (444, 23674), (447, 23683), (450, 23689), (514, 23869), (544, 23929), (556, 23977), (562, 23989), (630, 24169), (635, 24187), (649, 24226), (659, 24256), (673, 24301), (685, 24337), (686, 24340), (709, 24403), (760, 24547), (793, 24613), (835, 24727), (849, 24772), (854, 24784),

Gene: Ashraf_30 Start: 28315, Stop: 30570, Start Num: 37
Candidate Starts for Ashraf_30:
(Start: 37 @28315 has 342 MA's), (74, 28411), (98, 28489), (104, 28516), (143, 28615), (192, 28774), (237, 28954), (244, 28978), (271, 29074), (283, 29110), (295, 29149), (298, 29158), (306, 29191), (316, 29230), (334, 29275), (351, 29326), (361, 29377), (363, 29386), (380, 29455), (410, 29530), (426, 29575), (429, 29590), (469, 29725), (492, 29779), (499, 29800), (509, 29833), (530, 29878), (551, 29932), (563, 29959), (583, 30016), (590, 30037), (614, 30079), (625, 30118), (642, 30178), (728, 30418), (737, 30454), (751, 30487), (789, 30556),

Gene: Astralis_27 Start: 24347, Stop: 26347, Start Num: 5
Candidate Starts for Astralis_27:
(Start: 5 @24347 has 38 MA's), (29, 24461), (34, 24470), (39, 24479), (41, 24482), (45, 24491), (73, 24560), (136, 24746), (192, 24923), (244, 25130), (252, 25160), (264, 25196), (269, 25211), (283, 25250), (298, 25298), (300, 25304), (306, 25331), (327, 25397), (353, 25484), (380, 25619), (394, 25652), (397, 25664), (433, 25793), (455, 25877), (506, 26030), (509, 26042), (541, 26123), (551, 26159), (553, 26165), (578, 26225), (617, 26321),

Gene: Athena_32 Start: 29364, Stop: 31589, Start Num: 28
Candidate Starts for Athena_32:
(Start: 28 @29364 has 52 MA's), (Start: 40 @29379 has 1 MA's), (59, 29424), (79, 29481), (105, 29559), (135, 29628), (143, 29640), (158, 29682), (169, 29718), (179, 29745), (183, 29757), (190, 29784), (211, 29874), (229, 29946), (252, 30030), (286, 30138), (291, 30159), (316, 30252), (323, 30267), (360, 30396), (380, 30477), (410, 30552), (425, 30594), (426, 30600), (453, 30699), (469, 30750), (473, 30762), (492, 30804), (499, 30825), (521, 30879), (530, 30903), (546, 30939), (583, 31035), (586, 31044), (614, 31098), (645, 31206), (656, 31233), (672, 31275), (701, 31347), (728, 31437), (737, 31473),

Gene: Audrey_31 Start: 28613, Stop: 30838, Start Num: 28
Candidate Starts for Audrey_31:
(Start: 28 @28613 has 52 MA's), (Start: 40 @28628 has 1 MA's), (59, 28673), (79, 28730), (105, 28808), (135, 28877), (143, 28889), (158, 28931), (169, 28967), (179, 28994), (183, 29006), (190, 29033), (211, 29123), (229, 29195), (252, 29279), (286, 29387), (291, 29408), (316, 29501), (323, 29516), (360, 29645), (380, 29726), (410, 29801), (426, 29849), (453, 29948), (469, 29999), (473, 30011), (492, 30053), (499, 30074), (521, 30128), (530, 30152), (546, 30188), (583, 30284), (586, 30293), (614, 30347), (645, 30455), (656, 30482), (672, 30524), (701, 30596), (728, 30686), (737, 30722),

Gene: AuntGwenStacy_27 Start: 23429, Stop: 26023, Start Num: 31
Candidate Starts for AuntGwenStacy_27:
(Start: 31 @23429 has 6 MA's), (48, 23468), (75, 23543), (105, 23645), (109, 23654), (133, 23732), (157, 23813), (160, 23822), (176, 23867), (180, 23870), (183, 23879), (186, 23891), (187, 23894), (193, 23918), (200, 23945), (202, 23954), (215, 24017), (233, 24083), (242, 24119), (243, 24122), (265, 24194), (267, 24200), (288, 24269), (307, 24353), (335, 24434), (340, 24455), (382, 24629), (392, 24656), (406, 24707), (424, 24752), (440, 24803), (444, 24812), (459, 24890), (504, 25013), (505, 25016), (507, 25019), (548, 25130), (568, 25193), (584, 25241), (621, 25328), (627, 25355), (630, 25364), (633, 25370), (645, 25421), (685, 25538), (686, 25541), (718, 25625), (728, 25661), (735, 25691), (743, 25715), (768, 25766), (772, 25772), (776, 25778), (823, 25880), (834, 25916), (855, 26006), (859, 26015),

Gene: Austelle_29 Start: 29604, Stop: 31901, Start Num: 37
Candidate Starts for Austelle_29:
(Start: 1 @28917 has 1 MA's), (2, 29064), (Start: 37 @29604 has 342 MA's), (74, 29703), (79, 29721), (118, 29844), (143, 29907), (167, 29988), (189, 30054), (218, 30171), (228, 30210), (241, 30261), (244, 30270), (258, 30327), (265, 30351), (266, 30354), (283, 30417), (296, 30459), (300, 30471), (335, 30594), (346, 30618), (360, 30681), (368, 30720), (392, 30792), (399, 30813), (410, 30849), (417, 30870), (436, 30936), (440, 30948), (453, 30999), (457, 31002), (460, 31020), (468, 31044), (476, 31071), (492, 31104), (499, 31125), (509, 31158), (530, 31203), (585, 31344), (586, 31347), (590, 31359), (626, 31443), (672, 31578), (682, 31602), (703, 31665), (710, 31695), (713, 31701), (728, 31749), (736, 31782), (737, 31785), (789, 31887), (790, 31890),

Gene: Avian_27 Start: 24739, Stop: 26739, Start Num: 5
Candidate Starts for Avian_27:
(Start: 5 @24739 has 38 MA's), (29, 24853), (34, 24862), (39, 24871), (41, 24874), (45, 24883), (73, 24952), (136, 25138), (192, 25315), (244, 25522), (252, 25552), (264, 25588), (269, 25603), (283, 25642), (298, 25690), (300, 25696), (306, 25723), (327, 25789), (353, 25876), (376, 25999), (380, 26011), (394, 26044), (455, 26269), (457, 26275), (509, 26434), (541, 26515), (551, 26551), (553, 26557), (566, 26584), (578, 26617), (617, 26713),

Gene: Ayotoya_25 Start: 21393, Stop: 23903, Start Num: 19
Candidate Starts for Ayotoya_25:
(Start: 19 @21393 has 14 MA's), (74, 21525), (77, 21540), (92, 21585), (102, 21603), (165, 21768), (184, 21822), (186, 21831), (203, 21909), (204, 21915), (247, 22080), (254, 22095), (265, 22131), (288, 22206), (291, 22218), (294, 22227), (300, 22245), (303, 22257), (308, 22290), (309, 22293), (323, 22329), (338, 22383), (369, 22506), (384, 22560), (391, 22581), (396, 22590), (423, 22692), (441, 22752), (453, 22800), (454, 22812), (466, 22857), (500, 22944), (513, 22983), (541, 23052), (545, 23064), (549, 23076), (649, 23364), (659, 23394), (683, 23475), (690, 23496), (697, 23523), (705, 23547), (752, 23712), (771, 23757), (811, 23856), (826, 23895),

Gene: Azuria_30 Start: 28768, Stop: 31026, Start Num: 37

Candidate Starts for Azuria_30:
(Start: 37 @28768 has 342 MA's), (74, 28864), (98, 28942), (104, 28969), (143, 29071), (192, 29230), (237, 29410), (244, 29434), (271, 29530), (283, 29566), (295, 29605), (298, 29614), (306, 29647), (316, 29686), (334, 29731), (351, 29782), (361, 29833), (363, 29842), (380, 29911), (410, 29986), (426, 30031), (429, 30046), (469, 30181), (492, 30235), (499, 30256), (509, 30289), (530, 30334), (551, 30388), (583, 30472), (590, 30493), (614, 30535), (625, 30574), (642, 30634), (728, 30874), (736, 30907), (737, 30910), (751, 30943), (756, 30949), (789, 31012),

Gene: Badfish_31 Start: 28778, Stop: 31033, Start Num: 37
Candidate Starts for Badfish_31:
(Start: 37 @28778 has 342 MA's), (74, 28874), (98, 28952), (104, 28979), (143, 29078), (192, 29237), (237, 29417), (244, 29441), (269, 29531), (271, 29537), (283, 29573), (295, 29612), (298, 29621), (306, 29654), (316, 29693), (334, 29738), (351, 29789), (361, 29840), (363, 29849), (380, 29918), (410, 29993), (426, 30038), (429, 30053), (469, 30188), (492, 30242), (499, 30263), (509, 30296), (530, 30341), (551, 30395), (583, 30479), (590, 30500), (614, 30542), (625, 30581), (642, 30641), (728, 30881), (736, 30914), (737, 30917), (751, 30950), (756, 30956), (789, 31019),

Gene: Baee_29 Start: 28752, Stop: 31019, Start Num: 37
Candidate Starts for Baee_29:
(Start: 37 @28752 has 342 MA's), (Start: 40 @28758 has 1 MA's), (59, 28809), (67, 28830), (85, 28884), (88, 28896), (90, 28905), (97, 28923), (118, 28986), (218, 29319), (245, 29421), (258, 29475), (295, 29595), (300, 29610), (306, 29637), (361, 29823), (368, 29859), (380, 29901), (426, 30027), (453, 30126), (469, 30177), (521, 30306), (530, 30330), (583, 30465), (614, 30528), (625, 30567), (626, 30570), (645, 30636), (658, 30666), (664, 30684), (689, 30750), (701, 30777), (728, 30867), (751, 30936), (789, 31005), (790, 31008),

Gene: Baloo_31 Start: 28616, Stop: 30841, Start Num: 28
Candidate Starts for Baloo_31:
(Start: 28 @28616 has 52 MA's), (Start: 40 @28631 has 1 MA's), (59, 28676), (79, 28733), (105, 28811), (135, 28880), (143, 28892), (158, 28934), (169, 28970), (179, 28997), (183, 29009), (190, 29036), (211, 29126), (229, 29198), (252, 29282), (286, 29390), (291, 29411), (316, 29504), (323, 29519), (360, 29648), (380, 29729), (410, 29804), (425, 29846), (426, 29852), (453, 29951), (469, 30002), (473, 30014), (492, 30056), (499, 30077), (521, 30131), (530, 30155), (546, 30191), (583, 30287), (586, 30296), (614, 30350), (645, 30458), (656, 30485), (672, 30527), (701, 30599), (728, 30689), (737, 30725),

Gene: Banjo_30 Start: 28454, Stop: 30709, Start Num: 37
Candidate Starts for Banjo_30:
(Start: 37 @28454 has 342 MA's), (74, 28550), (98, 28628), (104, 28655), (143, 28754), (192, 28913), (237, 29093), (244, 29117), (269, 29207), (271, 29213), (283, 29249), (295, 29288), (298, 29297), (306, 29330), (316, 29369), (334, 29414), (351, 29465), (361, 29516), (363, 29525), (380, 29594), (410, 29669), (426, 29714), (429, 29729), (469, 29864), (492, 29918), (499, 29939), (509, 29972), (530, 30017), (551, 30071), (563, 30098), (583, 30155), (590, 30176), (614, 30218), (625, 30257), (642, 30317), (728, 30557), (736, 30590), (737, 30593), (751, 30626), (756, 30632), (789, 30695),

Gene: Basato_32 Start: 28982, Stop: 31237, Start Num: 37
Candidate Starts for Basato_32:
(Start: 37 @28982 has 342 MA's), (74, 29078), (98, 29156), (104, 29183), (143, 29282), (192, 29441), (237, 29621), (244, 29645), (271, 29741), (283, 29777), (295, 29816), (298, 29825), (306, 29858), (316, 29897), (334, 29942), (351, 29993), (361, 30044), (363, 30053), (380, 30122), (410, 30197), (426, 30242), (429, 30257), (469, 30392), (492, 30446), (499, 30467), (509, 30500), (530, 30545), (551, 30599), (563, 30626), (583, 30683), (590, 30704), (614, 30746), (625, 30785), (642, 30845), (728, 31085), (737, 31121), (751, 31154), (789, 31223),

Gene: BatteryCK_30 Start: 28373, Stop: 30628, Start Num: 37
Candidate Starts for BatteryCK_30:
(Start: 37 @28373 has 342 MA's), (74, 28469), (98, 28547), (104, 28574), (143, 28673), (192, 28832), (237, 29012), (244, 29036), (269, 29126), (271, 29132), (283, 29168), (295, 29207), (298, 29216), (306, 29249), (316, 29288), (334, 29333), (351, 29384), (361, 29435), (363, 29444), (380, 29513), (410, 29588), (426, 29633), (429, 29648), (469, 29783), (492, 29837), (499, 29858), (509, 29891), (530, 29936), (551, 29990), (563, 30017), (583, 30074), (590, 30095), (614, 30137), (625, 30176), (642, 30236), (728, 30476), (736, 30509), (737, 30512), (751, 30545), (756, 30551), (789, 30614),

Gene: Beaglebox_30 Start: 28474, Stop: 30729, Start Num: 37
Candidate Starts for Beaglebox_30:
(Start: 37 @28474 has 342 MA's), (74, 28570), (98, 28648), (104, 28675), (143, 28774), (192, 28933), (237, 29113), (244, 29137), (269, 29227), (271, 29233), (283, 29269), (295, 29308), (298, 29317), (306, 29350), (316, 29389), (334, 29434), (351, 29485), (361, 29536), (363, 29545), (380, 29614), (410, 29689), (426, 29734), (429, 29749), (469, 29884), (492, 29938), (499, 29959), (509, 29992), (530, 30037), (551, 30091), (563, 30118), (583, 30175), (590, 30196), (614, 30238), (625, 30277), (642, 30337), (728, 30577), (736, 30610), (737, 30613), (751, 30646), (756, 30652), (789, 30715),

Gene: Beaver_30 Start: 35090, Stop: 37087, Start Num: 6
Candidate Starts for Beaver_30:
(Start: 6 @35090 has 35 MA's), (Start: 20 @35165 has 4 MA's), (32, 35204), (45, 35234), (54, 35261), (56, 35264), (179, 35639), (181, 35648), (229, 35840), (249, 35918), (264, 35960), (269, 35975), (306, 36095), (308, 36113), (353, 36248), (380, 36383), (394, 36416), (415, 36482), (425, 36518), (433, 36554), (457, 36644), (464, 36674), (497, 36737), (536, 36851), (551, 36896), (553, 36902), (578, 36962),

Gene: Bellis_21 Start: 19726, Stop: 22239, Start Num: 18
Candidate Starts for Bellis_21:
(Start: 18 @19726 has 19 MA's), (41, 19789), (68, 19861), (98, 19951), (101, 19957), (127, 20029), (189, 20221), (192, 20233), (196, 20251), (204, 20290), (212, 20320), (228, 20377), (235, 20407), (237, 20413), (250, 20467), (253, 20473), (294, 20620), (295, 20623), (298, 20632), (303, 20650), (318, 20710), (321, 20719), (325, 20731), (343, 20782), (345, 20785), (386, 20950), (407, 21007), (438, 21091), (444, 21109), (447, 21118), (468, 21181), (514, 21301), (538, 21346), (544, 21361), (550, 21379), (559, 21409), (589, 21499), (622, 21568), (630, 21601), (636, 21622), (648, 21658), (661, 21694), (675, 21739), (682, 21763), (685, 21769), (689, 21784), (694, 21802), (709, 21835), (728, 21889), (733, 21913), (744, 21949), (747, 21955), (760, 21979), (832, 22144), (834, 22153), (835, 22159),

Gene: Ben11_30 Start: 28435, Stop: 30660, Start Num: 28
Candidate Starts for Ben11_30:
(Start: 28 @28435 has 52 MA's), (Start: 40 @28450 has 1 MA's), (59, 28495), (79, 28552), (105, 28630), (135, 28699), (143, 28711), (158, 28753), (169, 28789), (179, 28816), (183, 28828), (190, 28855), (211, 28945), (229, 29017), (252, 29101), (286, 29209), (291, 29230), (316, 29323), (323, 29338), (360, 29467), (380, 29548), (410, 29623), (425, 29665), (426, 29671), (453, 29770), (469, 29821), (473, 29833), (492, 29875), (499, 29896), (521, 29950), (530, 29974), (546, 30010), (583, 30106), (586, 30115), (614, 30169), (645, 30277), (656, 30304), (672, 30346), (701, 30418), (728, 30508), (737, 30544),

Gene: Bernardo_31 Start: 28703, Stop: 30928, Start Num: 28
Candidate Starts for Bernardo_31:
(Start: 28 @28703 has 52 MA's), (59, 28763), (79, 28820), (105, 28898), (135, 28967), (143, 28979), (158, 29021), (169, 29057), (183, 29096), (190, 29123), (211, 29213), (217, 29237), (229, 29285),

(252, 29369), (286, 29477), (291, 29498), (316, 29591), (323, 29606), (360, 29735), (380, 29816), (410, 29891), (425, 29933), (426, 29939), (453, 30038), (469, 30089), (473, 30101), (492, 30143), (499, 30164), (521, 30218), (530, 30242), (546, 30278), (583, 30374), (586, 30383), (614, 30437), (645, 30545), (656, 30572), (672, 30614), (701, 30686), (728, 30776), (737, 30812),

Gene: Berries_27 Start: 35568, Stop: 37589, Start Num: 6
Candidate Starts for Berries_27:
(Start: 6 @35568 has 35 MA's), (14, 35616), (23, 35652), (26, 35670), (30, 35679), (44, 35709), (45, 35712), (84, 35823), (122, 35943), (257, 36420), (261, 36429), (294, 36528), (306, 36573), (327, 36639), (353, 36726), (380, 36861), (394, 36894), (455, 37119), (457, 37125), (509, 37284), (551, 37401), (553, 37407), (566, 37434), (578, 37467), (617, 37563),

Gene: BetterKatz_25 Start: 20866, Stop: 23376, Start Num: 19
Candidate Starts for BetterKatz_25:
(Start: 19 @20866 has 14 MA's), (74, 20998), (77, 21013), (92, 21058), (102, 21076), (165, 21241), (184, 21295), (186, 21304), (203, 21382), (204, 21388), (247, 21553), (254, 21568), (265, 21604), (288, 21679), (291, 21691), (294, 21700), (296, 21706), (300, 21718), (303, 21730), (306, 21745), (308, 21763), (309, 21766), (323, 21802), (338, 21856), (366, 21961), (369, 21979), (384, 22033), (391, 22054), (396, 22063), (423, 22165), (441, 22225), (453, 22273), (454, 22285), (466, 22330), (500, 22417), (513, 22456), (541, 22525), (545, 22537), (549, 22549), (649, 22837), (659, 22867), (683, 22948), (690, 22969), (697, 22996), (705, 23020), (752, 23185), (771, 23230), (811, 23329), (826, 23368),

Gene: Bianmat_27 Start: 35608, Stop: 37629, Start Num: 6
Candidate Starts for Bianmat_27:
(Start: 6 @35608 has 35 MA's), (14, 35656), (23, 35692), (26, 35710), (30, 35719), (44, 35749), (45, 35752), (84, 35863), (122, 35983), (257, 36460), (261, 36469), (294, 36568), (306, 36613), (327, 36679), (353, 36766), (380, 36901), (394, 36934), (455, 37159), (457, 37165), (509, 37324), (551, 37441), (553, 37447), (566, 37474), (578, 37507), (617, 37603),

Gene: Biglebops_23 Start: 20414, Stop: 22900, Start Num: 24
Candidate Starts for Biglebops_23:
(Start: 24 @20414 has 60 MA's), (44, 20462), (142, 20642), (143, 20645), (164, 20708), (169, 20720), (204, 20852), (214, 20891), (229, 20948), (235, 20972), (238, 20984), (252, 21032), (254, 21035), (267, 21068), (277, 21107), (288, 21140), (291, 21152), (294, 21161), (296, 21167), (311, 21233), (317, 21248), (352, 21359), (357, 21392), (377, 21476), (385, 21491), (406, 21551), (430, 21620), (462, 21740), (496, 21833), (541, 21947), (565, 22025), (568, 22031), (574, 22055), (594, 22118), (596, 22121), (603, 22133), (625, 22199), (627, 22205), (639, 22247), (644, 22268), (645, 22277), (657, 22310), (663, 22328), (685, 22397), (721, 22496), (722, 22502), (728, 22520), (742, 22574), (747, 22589), (766, 22616), (793, 22673),

Gene: BillyBobJr_31 Start: 35117, Stop: 37114, Start Num: 6
Candidate Starts for BillyBobJr_31:
(Start: 6 @35117 has 35 MA's), (Start: 20 @35192 has 4 MA's), (32, 35231), (45, 35261), (54, 35288), (56, 35291), (181, 35675), (229, 35867), (251, 35948), (252, 35951), (264, 35987), (287, 36053), (306, 36122), (308, 36140), (353, 36275), (380, 36410), (394, 36443), (415, 36509), (425, 36545), (433, 36581), (457, 36671), (464, 36701), (547, 36905), (551, 36923), (553, 36929), (578, 36989), (601, 37046),

Gene: Bipper_27 Start: 23567, Stop: 26155, Start Num: 31
Candidate Starts for Bipper_27:
(Start: 31 @23567 has 6 MA's), (104, 23756), (115, 23777), (121, 23807), (141, 23870), (160, 23936), (161, 23939), (176, 23981), (193, 24032), (202, 24068), (208, 24107), (243, 24242), (264, 24320),

(265, 24323), (288, 24404), (296, 24434), (305, 24470), (315, 24509), (319, 24521), (332, 24551), (334, 24557), (335, 24569), (336, 24578), (340, 24590), (348, 24614), (354, 24638), (372, 24731), (382, 24764), (383, 24767), (406, 24842), (411, 24854), (440, 24938), (520, 25184), (524, 25190), (542, 25247), (568, 25328), (584, 25376), (627, 25490), (645, 25556), (675, 25643), (685, 25673), (702, 25724), (728, 25796), (733, 25820), (735, 25826), (742, 25847), (748, 25865), (786, 25934), (822, 26009), (834, 26048), (835, 26054), (836, 26060), (855, 26138), (859, 26147),

Gene: BirksAndSocks_30 Start: 35064, Stop: 37061, Start Num: 6
Candidate Starts for BirksAndSocks_30:
(Start: 6 @35064 has 35 MA's), (Start: 20 @35139 has 4 MA's), (32, 35178), (45, 35208), (54, 35235), (56, 35238), (179, 35613), (181, 35622), (229, 35814), (251, 35895), (252, 35898), (287, 36000), (306, 36069), (308, 36087), (353, 36222), (380, 36357), (394, 36390), (415, 36456), (418, 36468), (425, 36492), (433, 36528), (457, 36618), (464, 36648), (497, 36711), (547, 36852), (551, 36870), (553, 36876), (578, 36936), (601, 36993),

Gene: BirthdayBoy_31 Start: 26800, Stop: 28773, Start Num: 5
Candidate Starts for BirthdayBoy_31:
(Start: 5 @26800 has 38 MA's), (29, 26914), (34, 26923), (39, 26932), (41, 26935), (45, 26944), (73, 27013), (94, 27076), (96, 27079), (113, 27118), (119, 27139), (136, 27193), (192, 27370), (209, 27445), (244, 27577), (251, 27604), (252, 27607), (254, 27610), (283, 27697), (298, 27745), (300, 27751), (306, 27778), (331, 27856), (344, 27907), (380, 28066), (394, 28099), (433, 28234), (536, 28540), (551, 28585), (553, 28591), (578, 28651), (611, 28726), (617, 28747),

Gene: Bishoperium_30 Start: 28463, Stop: 30718, Start Num: 37
Candidate Starts for Bishoperium_30:
(Start: 37 @28463 has 342 MA's), (74, 28559), (98, 28637), (104, 28664), (143, 28763), (192, 28922), (237, 29102), (244, 29126), (269, 29216), (271, 29222), (283, 29258), (295, 29297), (298, 29306), (306, 29339), (316, 29378), (334, 29423), (351, 29474), (361, 29525), (363, 29534), (380, 29603), (410, 29678), (426, 29723), (429, 29738), (469, 29873), (492, 29927), (499, 29948), (509, 29981), (530, 30026), (551, 30080), (563, 30107), (583, 30164), (590, 30185), (614, 30227), (625, 30266), (642, 30326), (728, 30566), (736, 30599), (737, 30602), (751, 30635), (756, 30641), (789, 30704),

Gene: BlackStallion_31 Start: 28765, Stop: 31020, Start Num: 37
Candidate Starts for BlackStallion_31:
(Start: 37 @28765 has 342 MA's), (74, 28861), (98, 28939), (104, 28966), (143, 29065), (192, 29224), (237, 29404), (244, 29428), (269, 29518), (271, 29524), (283, 29560), (295, 29599), (298, 29608), (306, 29641), (316, 29680), (334, 29725), (351, 29776), (361, 29827), (363, 29836), (380, 29905), (410, 29980), (426, 30025), (429, 30040), (469, 30175), (492, 30229), (499, 30250), (509, 30283), (530, 30328), (551, 30382), (583, 30466), (590, 30487), (614, 30529), (625, 30568), (642, 30628), (728, 30868), (736, 30901), (737, 30904), (751, 30937), (756, 30943), (789, 31006),

Gene: BlacksBerry_30 Start: 28475, Stop: 30736, Start Num: 37
Candidate Starts for BlacksBerry_30:
(Start: 37 @28475 has 342 MA's), (74, 28571), (98, 28649), (104, 28676), (133, 28751), (143, 28781), (192, 28940), (237, 29120), (244, 29144), (271, 29240), (283, 29276), (295, 29315), (298, 29324), (306, 29357), (316, 29396), (334, 29441), (351, 29492), (363, 29552), (380, 29621), (410, 29696), (426, 29741), (429, 29756), (469, 29891), (492, 29945), (499, 29966), (509, 29999), (530, 30044), (551, 30098), (563, 30125), (583, 30182), (590, 30203), (614, 30245), (625, 30284), (642, 30344), (728, 30584), (737, 30620), (751, 30653), (789, 30722),

Gene: BlueHusk_31 Start: 28262, Stop: 30517, Start Num: 37
Candidate Starts for BlueHusk_31:

(Start: 37 @28262 has 342 MA's), (74, 28358), (98, 28436), (104, 28463), (143, 28562), (192, 28721), (237, 28901), (244, 28925), (271, 29021), (283, 29057), (295, 29096), (298, 29105), (306, 29138), (316, 29177), (334, 29222), (351, 29273), (361, 29324), (363, 29333), (380, 29402), (410, 29477), (426, 29522), (429, 29537), (469, 29672), (492, 29726), (499, 29747), (509, 29780), (530, 29825), (551, 29879), (563, 29906), (583, 29963), (590, 29984), (614, 30026), (625, 30065), (642, 30125), (728, 30365), (737, 30401), (751, 30434), (789, 30503),

Gene: Bluephacebaby_30 Start: 28460, Stop: 30715, Start Num: 37
Candidate Starts for Bluephacebaby_30:
(Start: 37 @28460 has 342 MA's), (74, 28556), (98, 28634), (104, 28661), (143, 28760), (192, 28919), (237, 29099), (244, 29123), (269, 29213), (271, 29219), (283, 29255), (295, 29294), (298, 29303), (306, 29336), (316, 29375), (334, 29420), (351, 29471), (361, 29522), (363, 29531), (380, 29600), (410, 29675), (426, 29720), (429, 29735), (469, 29870), (492, 29924), (499, 29945), (509, 29978), (530, 30023), (551, 30077), (563, 30104), (583, 30161), (590, 30182), (614, 30224), (625, 30263), (642, 30323), (728, 30563), (736, 30596), (737, 30599), (751, 30632), (756, 30638), (789, 30701),

Gene: BobbyK_28 Start: 28973, Stop: 31270, Start Num: 37
Candidate Starts for BobbyK_28:
(Start: 1 @28286 has 1 MA's), (2, 28433), (Start: 37 @28973 has 342 MA's), (74, 29072), (79, 29090), (118, 29213), (143, 29276), (167, 29357), (189, 29423), (218, 29540), (228, 29579), (244, 29639), (258, 29696), (265, 29720), (266, 29723), (283, 29786), (296, 29828), (335, 29963), (346, 29987), (360, 30050), (368, 30089), (392, 30161), (399, 30182), (410, 30218), (417, 30239), (436, 30305), (440, 30317), (453, 30368), (457, 30371), (460, 30389), (468, 30413), (476, 30440), (492, 30473), (499, 30494), (509, 30527), (530, 30572), (585, 30713), (586, 30716), (590, 30728), (626, 30812), (664, 30926), (672, 30947), (682, 30971), (703, 31034), (710, 31064), (713, 31070), (728, 31118), (736, 31151), (737, 31154), (789, 31256), (790, 31259),

Gene: Bobquesha_29 Start: 22017, Stop: 24326, Start Num: 66
Candidate Starts for Bobquesha_29:
(Start: 66 @22017 has 18 MA's), (77, 22047), (83, 22065), (106, 22128), (185, 22269), (201, 22335), (214, 22398), (228, 22449), (230, 22458), (238, 22491), (252, 22539), (271, 22596), (288, 22656), (291, 22668), (296, 22683), (298, 22689), (306, 22722), (319, 22770), (344, 22824), (364, 22896), (421, 23076), (449, 23157), (502, 23310), (521, 23352), (543, 23409), (547, 23421), (569, 23508), (574, 23526), (596, 23592), (607, 23607), (636, 23703), (685, 23856), (689, 23871), (692, 23877), (701, 23907), (703, 23913), (712, 23940), (718, 23952), (744, 24048), (774, 24102), (783, 24123), (825, 24210), (834, 24240), (859, 24318),

Gene: Bock_25 Start: 20616, Stop: 23126, Start Num: 19
Candidate Starts for Bock_25:
(Start: 19 @20616 has 14 MA's), (74, 20748), (77, 20763), (92, 20808), (102, 20826), (165, 20991), (184, 21045), (186, 21054), (203, 21132), (204, 21138), (247, 21303), (254, 21318), (265, 21354), (288, 21429), (291, 21441), (294, 21450), (296, 21456), (300, 21468), (303, 21480), (306, 21495), (308, 21513), (309, 21516), (338, 21606), (366, 21711), (369, 21729), (384, 21783), (391, 21804), (396, 21813), (423, 21915), (441, 21975), (453, 22023), (454, 22035), (466, 22080), (500, 22167), (513, 22206), (541, 22275), (545, 22287), (549, 22299), (649, 22587), (659, 22617), (683, 22698), (690, 22719), (697, 22746), (705, 22770), (752, 22935), (771, 22980), (811, 23079), (826, 23118),

Gene: Boehler_31 Start: 28766, Stop: 31021, Start Num: 37
Candidate Starts for Boehler_31:
(Start: 37 @28766 has 342 MA's), (74, 28862), (98, 28940), (104, 28967), (143, 29066), (192, 29225), (237, 29405), (244, 29429), (269, 29519), (271, 29525), (283, 29561), (295, 29600), (298, 29609), (306, 29642), (316, 29681), (334, 29726), (351, 29777), (361, 29828), (363, 29837), (380, 29906), (410, 29981), (426, 30026), (429, 30041), (469, 30176), (492, 30230), (499, 30251), (509, 30284),

(530, 30329), (551, 30383), (583, 30467), (590, 30488), (614, 30530), (625, 30569), (642, 30629), (728, 30869), (736, 30902), (737, 30905), (751, 30938), (756, 30944), (789, 31007),

Gene: Boneham_30 Start: 35063, Stop: 37060, Start Num: 6
Candidate Starts for Boneham_30:
(Start: 6 @35063 has 35 MA's), (Start: 20 @35138 has 4 MA's), (32, 35177), (45, 35207), (54, 35234), (56, 35237), (179, 35612), (181, 35621), (229, 35813), (251, 35894), (252, 35897), (287, 35999), (306, 36068), (308, 36086), (353, 36221), (380, 36356), (394, 36389), (415, 36455), (418, 36467), (425, 36491), (433, 36527), (457, 36617), (464, 36647), (497, 36710), (547, 36851), (551, 36869), (553, 36875), (578, 36935), (601, 36992),

Gene: Bonum_46 Start: 32908, Stop: 35466, Start Num: 78
Candidate Starts for Bonum_46:
(Start: 78 @32908 has 15 MA's), (120, 33037), (223, 33376), (224, 33379), (238, 33436), (287, 33589), (306, 33655), (307, 33670), (339, 33760), (443, 34111), (574, 34489), (614, 34594), (620, 34612), (628, 34645), (634, 34666), (650, 34720), (672, 34789), (686, 34825), (693, 34852), (696, 34858), (724, 34948), (754, 35044), (756, 35047), (787, 35110), (803, 35143), (806, 35161), (808, 35164), (822, 35200), (830, 35224), (835, 35245), (853, 35335), (856, 35347),

Gene: BoogieWoogie_31 Start: 28447, Stop: 30702, Start Num: 37
Candidate Starts for BoogieWoogie_31:
(Start: 37 @28447 has 342 MA's), (74, 28543), (98, 28621), (104, 28648), (143, 28747), (192, 28906), (237, 29086), (244, 29110), (269, 29200), (271, 29206), (283, 29242), (295, 29281), (298, 29290), (306, 29323), (316, 29362), (334, 29407), (351, 29458), (361, 29509), (363, 29518), (380, 29587), (410, 29662), (426, 29707), (429, 29722), (469, 29857), (492, 29911), (499, 29932), (509, 29965), (530, 30010), (551, 30064), (563, 30091), (583, 30148), (590, 30169), (614, 30211), (625, 30250), (642, 30310), (728, 30550), (736, 30583), (737, 30586), (751, 30619), (756, 30625), (789, 30688),

Gene: BoostSeason_23 Start: 18687, Stop: 21026, Start Num: 24
Candidate Starts for BoostSeason_23:
(Start: 24 @18687 has 60 MA's), (142, 18927), (181, 19035), (185, 19044), (190, 19065), (195, 19089), (230, 19218), (233, 19230), (252, 19299), (294, 19434), (300, 19452), (306, 19479), (344, 19581), (364, 19653), (373, 19695), (374, 19701), (377, 19710), (380, 19716), (406, 19797), (416, 19818), (428, 19860), (436, 19881), (448, 19911), (476, 19998), (478, 20007), (497, 20043), (518, 20097), (544, 20151), (548, 20163), (568, 20223), (589, 20283), (596, 20301), (613, 20328), (630, 20385), (692, 20574), (706, 20604), (730, 20682), (735, 20703), (750, 20745), (770, 20778), (774, 20787), (783, 20808), (800, 20835), (833, 20916), (839, 20940),

Gene: BourbonZero_20 Start: 19707, Stop: 22217, Start Num: 18
Candidate Starts for BourbonZero_20:
(Start: 18 @19707 has 19 MA's), (41, 19770), (83, 19890), (145, 20076), (189, 20202), (192, 20214), (196, 20232), (204, 20271), (212, 20301), (235, 20388), (250, 20448), (253, 20454), (293, 20595), (295, 20601), (298, 20610), (303, 20628), (318, 20688), (325, 20709), (343, 20760), (345, 20763), (360, 20832), (407, 20985), (438, 21069), (444, 21087), (447, 21096), (485, 21207), (496, 21225), (514, 21279), (538, 21324), (544, 21339), (559, 21387), (589, 21477), (596, 21495), (622, 21546), (630, 21579), (635, 21597), (636, 21600), (648, 21636), (659, 21666), (661, 21672), (675, 21717), (682, 21741), (685, 21747), (689, 21762), (694, 21780), (709, 21813), (711, 21816), (728, 21867), (747, 21933), (760, 21957), (797, 22032), (812, 22068), (835, 22137),

Gene: Briakila_31 Start: 29378, Stop: 31603, Start Num: 28
Candidate Starts for Briakila_31:
(Start: 28 @29378 has 52 MA's), (Start: 40 @29393 has 1 MA's), (59, 29438), (79, 29495), (105, 29573), (135, 29642), (143, 29654), (158, 29696), (169, 29732), (179, 29759), (183, 29771), (190,

29798), (211, 29888), (229, 29960), (252, 30044), (286, 30152), (291, 30173), (316, 30266), (323, 30281), (360, 30410), (380, 30491), (410, 30566), (425, 30608), (426, 30614), (453, 30713), (469, 30764), (473, 30776), (492, 30818), (499, 30839), (521, 30893), (530, 30917), (546, 30953), (583, 31049), (586, 31058), (614, 31112), (645, 31220), (656, 31247), (672, 31289), (701, 31361), (728, 31451), (737, 31487),

Gene: Brilliant_31 Start: 28471, Stop: 30726, Start Num: 37
Candidate Starts for Brilliant_31:
(Start: 37 @28471 has 342 MA's), (74, 28567), (98, 28645), (104, 28672), (143, 28771), (192, 28930), (237, 29110), (244, 29134), (271, 29230), (283, 29266), (295, 29305), (298, 29314), (306, 29347), (316, 29386), (334, 29431), (351, 29482), (361, 29533), (363, 29542), (380, 29611), (410, 29686), (426, 29731), (429, 29746), (469, 29881), (492, 29935), (499, 29956), (509, 29989), (530, 30034), (551, 30088), (563, 30115), (583, 30172), (590, 30193), (614, 30235), (625, 30274), (642, 30334), (728, 30574), (737, 30610), (751, 30643), (789, 30712),

Gene: BrownCNA_29 Start: 29234, Stop: 31531, Start Num: 37
Candidate Starts for BrownCNA_29:
(Start: 1 @28547 has 1 MA's), (2, 28694), (Start: 37 @29234 has 342 MA's), (74, 29333), (79, 29351), (118, 29474), (143, 29537), (167, 29618), (189, 29684), (218, 29801), (228, 29840), (241, 29891), (244, 29900), (258, 29957), (265, 29981), (266, 29984), (283, 30047), (296, 30089), (300, 30101), (335, 30224), (346, 30248), (354, 30278), (355, 30281), (360, 30311), (392, 30422), (399, 30443), (404, 30464), (410, 30479), (417, 30500), (436, 30566), (453, 30629), (457, 30632), (460, 30650), (468, 30674), (476, 30701), (492, 30734), (499, 30755), (509, 30788), (530, 30833), (585, 30974), (590, 30989), (626, 31073), (664, 31187), (672, 31208), (682, 31232), (703, 31295), (710, 31325), (728, 31379), (736, 31412), (737, 31415), (789, 31517), (790, 31520),

Gene: Bryler_26 Start: 20070, Stop: 22406, Start Num: 24
Candidate Starts for Bryler_26:
(Start: 24 @20070 has 60 MA's), (44, 20118), (47, 20127), (89, 20241), (93, 20259), (144, 20310), (181, 20406), (185, 20415), (204, 20505), (208, 20517), (233, 20616), (235, 20625), (262, 20718), (288, 20799), (296, 20829), (300, 20841), (306, 20868), (307, 20883), (317, 20907), (344, 20967), (357, 21012), (364, 21039), (372, 21078), (377, 21096), (382, 21105), (406, 21174), (408, 21177), (416, 21195), (428, 21237), (436, 21258), (448, 21288), (476, 21375), (502, 21438), (514, 21471), (522, 21480), (548, 21543), (562, 21591), (568, 21603), (591, 21672), (610, 21696), (620, 21726), (630, 21765), (692, 21954), (721, 22029), (735, 22083), (774, 22167), (782, 22185), (822, 22272), (833, 22296), (843, 22338), (860, 22398),

Gene: Brylie_25 Start: 20607, Stop: 23117, Start Num: 19
Candidate Starts for Brylie_25:
(Start: 19 @20607 has 14 MA's), (74, 20739), (77, 20754), (92, 20799), (102, 20817), (165, 20982), (184, 21036), (186, 21045), (203, 21123), (204, 21129), (247, 21294), (254, 21309), (265, 21345), (288, 21420), (291, 21432), (294, 21441), (296, 21447), (300, 21459), (303, 21471), (306, 21486), (308, 21504), (309, 21507), (323, 21543), (338, 21597), (369, 21720), (384, 21774), (391, 21795), (396, 21804), (423, 21906), (441, 21966), (453, 22014), (454, 22026), (466, 22071), (500, 22158), (513, 22197), (541, 22266), (545, 22278), (549, 22290), (649, 22578), (659, 22608), (683, 22689), (690, 22710), (697, 22737), (705, 22761), (752, 22926), (771, 22971), (811, 23070), (826, 23109),

Gene: Buckeye_31 Start: 28783, Stop: 31038, Start Num: 37
Candidate Starts for Buckeye_31:
(Start: 37 @28783 has 342 MA's), (74, 28879), (98, 28957), (104, 28984), (143, 29083), (192, 29242), (237, 29422), (244, 29446), (269, 29536), (271, 29542), (283, 29578), (295, 29617), (298, 29626), (306, 29659), (316, 29698), (334, 29743), (351, 29794), (361, 29845), (363, 29854), (380, 29923), (410, 29998), (426, 30043), (429, 30058), (469, 30193), (492, 30247), (499, 30268), (509, 30301),

(530, 30346), (551, 30400), (563, 30427), (583, 30484), (590, 30505), (614, 30547), (625, 30586), (642, 30646), (728, 30886), (736, 30919), (737, 30922), (751, 30955), (756, 30961), (789, 31024),

Gene: Buggaboo_44 Start: 33387, Stop: 35945, Start Num: 78
Candidate Starts for Buggaboo_44:
(Start: 28 @33258 has 52 MA's), (Start: 78 @33387 has 15 MA's), (120, 33516), (223, 33855), (224, 33858), (238, 33915), (287, 34068), (306, 34134), (307, 34149), (443, 34590), (574, 34968), (614, 35073), (620, 35091), (628, 35124), (634, 35145), (650, 35199), (659, 35223), (686, 35304), (693, 35331), (696, 35337), (724, 35427), (754, 35523), (756, 35526), (787, 35589), (803, 35622), (806, 35640), (808, 35643), (822, 35679), (830, 35703), (835, 35724), (853, 35814), (856, 35826), (864, 35937),

Gene: Burr_30 Start: 28459, Stop: 30714, Start Num: 37
Candidate Starts for Burr_30:
(Start: 37 @28459 has 342 MA's), (74, 28555), (98, 28633), (104, 28660), (143, 28759), (192, 28918), (237, 29098), (244, 29122), (269, 29212), (271, 29218), (283, 29254), (295, 29293), (298, 29302), (306, 29335), (316, 29374), (334, 29419), (351, 29470), (361, 29521), (363, 29530), (380, 29599), (410, 29674), (426, 29719), (429, 29734), (469, 29869), (492, 29923), (499, 29944), (509, 29977), (530, 30022), (551, 30076), (563, 30103), (583, 30160), (590, 30181), (614, 30223), (625, 30262), (642, 30322), (728, 30562), (736, 30595), (737, 30598), (751, 30631), (756, 30637), (789, 30700),

Gene: Butterball_30 Start: 35063, Stop: 37060, Start Num: 6
Candidate Starts for Butterball_30:
(Start: 6 @35063 has 35 MA's), (Start: 20 @35138 has 4 MA's), (32, 35177), (45, 35207), (54, 35234), (56, 35237), (179, 35612), (181, 35621), (229, 35813), (251, 35894), (252, 35897), (287, 35999), (306, 36068), (308, 36086), (353, 36221), (380, 36356), (394, 36389), (415, 36455), (418, 36467), (425, 36491), (433, 36527), (457, 36617), (464, 36647), (497, 36710), (547, 36851), (551, 36869), (553, 36875), (578, 36935), (601, 36992),

Gene: CRB2_33 Start: 31730, Stop: 34225, Start Num: 33
Candidate Starts for CRB2_33:
(Start: 33 @31730 has 2 MA's), (74, 31832), (75, 31838), (79, 31850), (97, 31907), (104, 31937), (111, 31952), (140, 32057), (173, 32171), (213, 32324), (235, 32405), (236, 32408), (252, 32468), (259, 32495), (292, 32603), (305, 32651), (306, 32654), (309, 32675), (346, 32774), (351, 32789), (379, 32915), (389, 32939), (399, 32960), (424, 33047), (427, 33065), (476, 33224), (503, 33290), (516, 33326), (518, 33329), (525, 33341), (534, 33371), (548, 33407), (551, 33419), (595, 33542), (597, 33545), (603, 33548), (605, 33554), (636, 33656), (652, 33707), (656, 33722), (666, 33746), (682, 33797), (689, 33818), (717, 33899), (723, 33923), (738, 33977), (778, 34049), (798, 34091), (812, 34127), (818, 34145), (827, 34172), (835, 34202),

Gene: CactusJack_21 Start: 18926, Stop: 21559, Start Num: 9
Candidate Starts for CactusJack_21:
(Start: 9 @18926 has 17 MA's), (11, 18935), (62, 19079), (157, 19352), (161, 19364), (170, 19385), (180, 19409), (200, 19484), (215, 19556), (224, 19586), (233, 19622), (247, 19685), (254, 19700), (262, 19727), (265, 19733), (288, 19808), (294, 19832), (296, 19838), (300, 19850), (307, 19892), (309, 19898), (337, 19985), (345, 20006), (352, 20030), (365, 20096), (368, 20117), (372, 20135), (382, 20168), (390, 20192), (392, 20195), (406, 20246), (444, 20351), (453, 20393), (507, 20558), (543, 20654), (568, 20732), (573, 20744), (610, 20834), (627, 20894), (630, 20903), (644, 20951), (645, 20960), (685, 21077), (700, 21122), (718, 21164), (735, 21230), (743, 21254), (768, 21302), (772, 21308), (776, 21314), (822, 21413), (825, 21422), (834, 21452), (855, 21542), (859, 21551),

Gene: Cain_26 Start: 20058, Stop: 22394, Start Num: 24
Candidate Starts for Cain_26:

(Start: 24 @20058 has 60 MA's), (44, 20106), (47, 20115), (89, 20229), (93, 20247), (144, 20298), (181, 20394), (185, 20403), (204, 20493), (208, 20505), (233, 20604), (235, 20613), (262, 20706), (288, 20787), (296, 20817), (300, 20829), (306, 20856), (307, 20871), (317, 20895), (344, 20955), (357, 21000), (364, 21027), (372, 21066), (377, 21084), (382, 21093), (406, 21162), (408, 21165), (416, 21183), (428, 21225), (436, 21246), (448, 21276), (476, 21363), (502, 21426), (514, 21459), (522, 21468), (548, 21531), (562, 21579), (568, 21591), (591, 21660), (610, 21684), (620, 21714), (630, 21753), (692, 21942), (721, 22017), (735, 22071), (774, 22155), (782, 22173), (822, 22260), (833, 22284), (843, 22326), (860, 22386),

Gene: CamL_31 Start: 28761, Stop: 31016, Start Num: 37
Candidate Starts for CamL_31:
(Start: 37 @28761 has 342 MA's), (74, 28857), (98, 28935), (104, 28962), (143, 29061), (192, 29220), (237, 29400), (244, 29424), (269, 29514), (271, 29520), (283, 29556), (295, 29595), (298, 29604), (306, 29637), (316, 29676), (334, 29721), (351, 29772), (361, 29823), (363, 29832), (380, 29901), (410, 29976), (426, 30021), (429, 30036), (469, 30171), (492, 30225), (499, 30246), (509, 30279), (530, 30324), (551, 30378), (563, 30405), (583, 30462), (590, 30483), (614, 30525), (625, 30564), (642, 30624), (728, 30864), (736, 30897), (737, 30900), (751, 30933), (756, 30939), (789, 31002),

Gene: CampRoach_31 Start: 28751, Stop: 31006, Start Num: 37
Candidate Starts for CampRoach_31:
(Start: 37 @28751 has 342 MA's), (74, 28847), (98, 28925), (104, 28952), (143, 29051), (192, 29210), (237, 29390), (244, 29414), (269, 29504), (271, 29510), (283, 29546), (295, 29585), (298, 29594), (306, 29627), (316, 29666), (334, 29711), (351, 29762), (361, 29813), (363, 29822), (380, 29891), (410, 29966), (426, 30011), (429, 30026), (469, 30161), (492, 30215), (499, 30236), (509, 30269), (530, 30314), (551, 30368), (563, 30395), (583, 30452), (590, 30473), (614, 30515), (625, 30554), (642, 30614), (728, 30854), (736, 30887), (737, 30890), (751, 30923), (756, 30929), (789, 30992),

Gene: Cannibal_31 Start: 28744, Stop: 30999, Start Num: 37
Candidate Starts for Cannibal_31:
(Start: 37 @28744 has 342 MA's), (74, 28840), (98, 28918), (104, 28945), (143, 29044), (192, 29203), (237, 29383), (244, 29407), (269, 29497), (271, 29503), (283, 29539), (295, 29578), (298, 29587), (306, 29620), (316, 29659), (334, 29704), (351, 29755), (361, 29806), (363, 29815), (380, 29884), (410, 29959), (426, 30004), (429, 30019), (469, 30154), (492, 30208), (499, 30229), (509, 30262), (530, 30307), (551, 30361), (563, 30388), (583, 30445), (590, 30466), (614, 30508), (625, 30547), (642, 30607), (728, 30847), (737, 30883), (751, 30916), (789, 30985),

Gene: Carthage_29 Start: 27670, Stop: 29928, Start Num: 37
Candidate Starts for Carthage_29:
(Start: 37 @27670 has 342 MA's), (74, 27766), (98, 27844), (104, 27871), (143, 27973), (237, 28312), (244, 28336), (269, 28426), (271, 28432), (283, 28468), (295, 28507), (306, 28549), (316, 28588), (334, 28633), (351, 28684), (361, 28735), (363, 28744), (380, 28813), (410, 28888), (426, 28933), (429, 28948), (469, 29083), (492, 29137), (499, 29158), (509, 29191), (530, 29236), (551, 29290), (563, 29317), (583, 29374), (590, 29395), (614, 29437), (625, 29476), (642, 29536), (728, 29776), (736, 29809), (737, 29812), (751, 29845), (756, 29851), (789, 29914),

Gene: Casbah_30 Start: 28465, Stop: 30690, Start Num: 28
Candidate Starts for Casbah_30:
(Start: 28 @28465 has 52 MA's), (Start: 40 @28480 has 1 MA's), (59, 28525), (79, 28582), (105, 28660), (135, 28729), (143, 28741), (158, 28783), (169, 28819), (179, 28846), (183, 28858), (190, 28885), (211, 28975), (229, 29047), (252, 29131), (286, 29239), (291, 29260), (316, 29353), (323, 29368), (360, 29497), (380, 29578), (410, 29653), (425, 29695), (426, 29701), (436, 29737), (469, 29851), (473, 29863), (492, 29905), (499, 29926), (521, 29980), (530, 30004), (583, 30136), (586, 30145), (614, 30199), (645, 30307), (656, 30334), (672, 30376), (701, 30448), (728, 30538), (737,

30574),

Gene: Caspiboi_30 Start: 28470, Stop: 30725, Start Num: 37
Candidate Starts for Caspiboi_30:
(Start: 37 @28470 has 342 MA's), (74, 28566), (98, 28644), (104, 28671), (143, 28770), (192, 28929), (237, 29109), (244, 29133), (271, 29229), (283, 29265), (295, 29304), (298, 29313), (306, 29346), (316, 29385), (334, 29430), (351, 29481), (361, 29532), (363, 29541), (380, 29610), (410, 29685), (426, 29730), (429, 29745), (469, 29880), (492, 29934), (499, 29955), (509, 29988), (530, 30033), (551, 30087), (563, 30114), (583, 30171), (590, 30192), (614, 30234), (625, 30273), (642, 30333), (728, 30573), (737, 30609), (751, 30642), (789, 30711),

Gene: ChaChing_31 Start: 28628, Stop: 30853, Start Num: 28
Candidate Starts for ChaChing_31:
(Start: 28 @28628 has 52 MA's), (Start: 40 @28643 has 1 MA's), (59, 28688), (79, 28745), (105, 28823), (135, 28892), (143, 28904), (158, 28946), (169, 28982), (179, 29009), (183, 29021), (190, 29048), (211, 29138), (229, 29210), (252, 29294), (286, 29402), (291, 29423), (316, 29516), (323, 29531), (360, 29660), (380, 29741), (410, 29816), (425, 29858), (426, 29864), (436, 29900), (469, 30014), (473, 30026), (492, 30068), (499, 30089), (521, 30143), (530, 30167), (546, 30203), (583, 30299), (586, 30308), (614, 30362), (645, 30470), (656, 30497), (672, 30539), (701, 30611), (728, 30701), (737, 30737),

Gene: Chaelin_31 Start: 28458, Stop: 30713, Start Num: 37
Candidate Starts for Chaelin_31:
(Start: 37 @28458 has 342 MA's), (74, 28554), (98, 28632), (104, 28659), (143, 28758), (192, 28917), (237, 29097), (244, 29121), (271, 29217), (283, 29253), (295, 29292), (298, 29301), (306, 29334), (316, 29373), (334, 29418), (351, 29469), (363, 29529), (380, 29598), (410, 29673), (426, 29718), (429, 29733), (469, 29868), (492, 29922), (499, 29943), (509, 29976), (530, 30021), (551, 30075), (563, 30102), (583, 30159), (590, 30180), (614, 30222), (625, 30261), (642, 30321), (728, 30561), (737, 30597), (751, 30630), (789, 30699),

Gene: Chah_32 Start: 28778, Stop: 31033, Start Num: 37
Candidate Starts for Chah_32:
(Start: 37 @28778 has 342 MA's), (74, 28874), (98, 28952), (104, 28979), (143, 29078), (192, 29237), (237, 29417), (244, 29441), (269, 29531), (271, 29537), (283, 29573), (295, 29612), (298, 29621), (306, 29654), (316, 29693), (334, 29738), (351, 29789), (361, 29840), (363, 29849), (380, 29918), (410, 29993), (426, 30038), (429, 30053), (469, 30188), (492, 30242), (499, 30263), (509, 30296), (530, 30341), (551, 30395), (563, 30422), (583, 30479), (590, 30500), (614, 30542), (625, 30581), (642, 30641), (728, 30881), (736, 30914), (737, 30917), (751, 30950), (756, 30956), (789, 31019),

Gene: Chalmers_31 Start: 29420, Stop: 31645, Start Num: 28
Candidate Starts for Chalmers_31:
(Start: 28 @29420 has 52 MA's), (59, 29480), (79, 29537), (105, 29615), (135, 29684), (143, 29696), (158, 29738), (169, 29774), (179, 29801), (183, 29813), (190, 29840), (211, 29930), (229, 30002), (252, 30086), (286, 30194), (291, 30215), (316, 30308), (323, 30323), (360, 30452), (380, 30533), (410, 30608), (425, 30650), (426, 30656), (436, 30692), (469, 30806), (473, 30818), (492, 30860), (499, 30881), (521, 30935), (530, 30959), (546, 30995), (583, 31091), (586, 31100), (614, 31154), (645, 31262), (656, 31289), (672, 31331), (701, 31403), (728, 31493), (737, 31529),

Gene: Chancellor_28 Start: 22283, Stop: 24592, Start Num: 66
Candidate Starts for Chancellor_28:
(Start: 66 @22283 has 18 MA's), (106, 22394), (143, 22418), (185, 22535), (214, 22664), (228, 22715), (230, 22724), (238, 22757), (248, 22796), (252, 22805), (271, 22862), (274, 22871), (288, 22922), (291, 22934), (296, 22949), (298, 22955), (306, 22988), (319, 23036), (344, 23090), (364, 23162),

(372, 23201), (375, 23213), (382, 23228), (400, 23273), (421, 23342), (449, 23423), (502, 23576), (543, 23675), (547, 23687), (574, 23792), (596, 23858), (607, 23873), (636, 23969), (685, 24122), (689, 24137), (692, 24143), (698, 24167), (712, 24206), (718, 24218), (744, 24314), (774, 24368), (783, 24389), (825, 24476), (834, 24506), (859, 24584),

Gene: Chandler_31 Start: 29393, Stop: 31621, Start Num: 28
Candidate Starts for Chandler_31:
(Start: 28 @29393 has 52 MA's), (Start: 40 @29408 has 1 MA's), (59, 29453), (79, 29510), (105, 29588), (135, 29657), (143, 29669), (158, 29711), (169, 29747), (179, 29774), (183, 29786), (190, 29813), (211, 29903), (229, 29975), (252, 30059), (286, 30167), (291, 30188), (316, 30281), (323, 30296), (360, 30425), (380, 30506), (410, 30581), (425, 30623), (426, 30629), (436, 30665), (469, 30779), (473, 30791), (492, 30833), (499, 30854), (521, 30908), (530, 30932), (546, 30968), (583, 31067), (586, 31076), (614, 31130), (645, 31238), (656, 31265), (672, 31307), (701, 31379), (728, 31469), (737, 31505),

Gene: Charianelly_27 Start: 35318, Stop: 37339, Start Num: 6
Candidate Starts for Charianelly_27:
(Start: 6 @35318 has 35 MA's), (14, 35366), (23, 35402), (26, 35420), (30, 35429), (44, 35459), (45, 35462), (84, 35573), (122, 35693), (257, 36170), (261, 36179), (294, 36278), (306, 36323), (327, 36389), (353, 36476), (380, 36611), (394, 36644), (455, 36869), (457, 36875), (509, 37034), (551, 37151), (553, 37157), (566, 37184), (578, 37217), (617, 37313),

Gene: Charles1_31 Start: 28746, Stop: 31001, Start Num: 37
Candidate Starts for Charles1_31:
(Start: 37 @28746 has 342 MA's), (74, 28842), (98, 28920), (104, 28947), (143, 29046), (192, 29205), (237, 29385), (244, 29409), (269, 29499), (271, 29505), (283, 29541), (295, 29580), (298, 29589), (306, 29622), (316, 29661), (334, 29706), (351, 29757), (361, 29808), (363, 29817), (380, 29886), (410, 29961), (426, 30006), (429, 30021), (469, 30156), (492, 30210), (499, 30231), (509, 30264), (530, 30309), (551, 30363), (563, 30390), (583, 30447), (590, 30468), (614, 30510), (625, 30549), (642, 30609), (728, 30849), (736, 30882), (737, 30885), (751, 30918), (756, 30924), (789, 30987),

Gene: CharlieGBrown_30 Start: 28335, Stop: 30590, Start Num: 37
Candidate Starts for CharlieGBrown_30:
(Start: 37 @28335 has 342 MA's), (74, 28431), (98, 28509), (104, 28536), (143, 28635), (192, 28794), (237, 28974), (244, 28998), (271, 29094), (283, 29130), (295, 29169), (298, 29178), (306, 29211), (316, 29250), (334, 29295), (351, 29346), (363, 29406), (380, 29475), (410, 29550), (426, 29595), (429, 29610), (469, 29745), (492, 29799), (499, 29820), (509, 29853), (530, 29898), (551, 29952), (563, 29979), (583, 30036), (590, 30057), (614, 30099), (625, 30138), (642, 30198), (728, 30438), (736, 30471), (737, 30474), (751, 30507), (789, 30576),

Gene: Charminar_27 Start: 24350, Stop: 26350, Start Num: 5
Candidate Starts for Charminar_27:
(Start: 5 @24350 has 38 MA's), (29, 24464), (34, 24473), (39, 24482), (41, 24485), (45, 24494), (73, 24563), (136, 24749), (192, 24926), (244, 25133), (252, 25163), (264, 25199), (269, 25214), (283, 25253), (298, 25301), (300, 25307), (306, 25334), (327, 25400), (353, 25487), (380, 25622), (394, 25655), (397, 25667), (433, 25796), (455, 25880), (457, 25886), (506, 26033), (509, 26045), (541, 26126), (551, 26162), (553, 26168), (578, 26228), (617, 26324),

Gene: Chavito_27 Start: 20243, Stop: 22753, Start Num: 24
Candidate Starts for Chavito_27:
(Start: 24 @20243 has 60 MA's), (44, 20291), (89, 20414), (141, 20465), (144, 20483), (169, 20549), (188, 20603), (204, 20681), (214, 20720), (229, 20777), (238, 20813), (254, 20864), (267, 20894), (272, 20909), (277, 20933), (287, 20963), (288, 20966), (291, 20978), (294, 20987), (296, 20993),

(306, 21032), (352, 21185), (360, 21230), (377, 21302), (401, 21356), (406, 21377), (411, 21389), (450, 21497), (459, 21560), (476, 21614), (496, 21665), (501, 21686), (543, 21785), (568, 21863), (574, 21887), (576, 21893), (594, 21950), (633, 22052), (645, 22109), (657, 22142), (663, 22160), (675, 22199), (692, 22250), (744, 22415), (775, 22469), (782, 22484), (803, 22526), (823, 22583), (829, 22601), (837, 22631), (838, 22649),

Gene: CheetO_31 Start: 28760, Stop: 31015, Start Num: 37
Candidate Starts for CheetO_31:
(Start: 37 @28760 has 342 MA's), (74, 28856), (98, 28934), (104, 28961), (143, 29060), (192, 29219), (237, 29399), (244, 29423), (271, 29519), (283, 29555), (295, 29594), (298, 29603), (306, 29636), (316, 29675), (334, 29720), (351, 29771), (361, 29822), (363, 29831), (380, 29900), (410, 29975), (426, 30020), (429, 30035), (469, 30170), (492, 30224), (499, 30245), (509, 30278), (530, 30323), (551, 30377), (563, 30404), (583, 30461), (590, 30482), (614, 30524), (625, 30563), (642, 30623), (728, 30863), (737, 30899), (751, 30932), (789, 31001),

Gene: Cheetobro_28 Start: 22280, Stop: 24589, Start Num: 66
Candidate Starts for Cheetobro_28:
(Start: 66 @22280 has 18 MA's), (106, 22391), (143, 22415), (185, 22532), (214, 22661), (228, 22712), (230, 22721), (238, 22754), (248, 22793), (252, 22802), (271, 22859), (274, 22868), (288, 22919), (291, 22931), (296, 22946), (298, 22952), (306, 22985), (319, 23033), (344, 23087), (364, 23159), (372, 23198), (375, 23210), (382, 23225), (400, 23270), (421, 23339), (449, 23420), (502, 23573), (543, 23672), (547, 23684), (574, 23789), (596, 23855), (607, 23870), (636, 23966), (685, 24119), (689, 24134), (692, 24140), (698, 24164), (712, 24203), (718, 24215), (744, 24311), (774, 24365), (783, 24386), (825, 24473), (834, 24503), (859, 24581),

Gene: Chentzyk_30 Start: 28483, Stop: 30711, Start Num: 28
Candidate Starts for Chentzyk_30:
(Start: 28 @28483 has 52 MA's), (Start: 40 @28498 has 1 MA's), (59, 28543), (79, 28600), (105, 28678), (135, 28747), (143, 28759), (158, 28801), (169, 28837), (179, 28864), (183, 28876), (190, 28903), (211, 28993), (229, 29065), (252, 29149), (286, 29257), (291, 29278), (316, 29371), (323, 29386), (360, 29515), (380, 29596), (410, 29671), (425, 29713), (426, 29719), (436, 29755), (469, 29869), (473, 29881), (492, 29923), (499, 29944), (521, 29998), (530, 30022), (546, 30058), (583, 30157), (586, 30166), (614, 30220), (645, 30328), (656, 30355), (672, 30397), (701, 30469), (728, 30559), (737, 30595),

Gene: Cher_30 Start: 28483, Stop: 30738, Start Num: 37
Candidate Starts for Cher_30:
(Start: 37 @28483 has 342 MA's), (74, 28579), (98, 28657), (104, 28684), (143, 28783), (192, 28942), (237, 29122), (244, 29146), (269, 29236), (271, 29242), (283, 29278), (295, 29317), (298, 29326), (306, 29359), (316, 29398), (334, 29443), (351, 29494), (361, 29545), (363, 29554), (380, 29623), (410, 29698), (426, 29743), (429, 29758), (469, 29893), (492, 29947), (499, 29968), (509, 30001), (530, 30046), (551, 30100), (563, 30127), (583, 30184), (590, 30205), (614, 30247), (625, 30286), (642, 30346), (728, 30586), (736, 30619), (737, 30622), (751, 30655), (756, 30661), (789, 30724),

Gene: Childish_30 Start: 28486, Stop: 30741, Start Num: 37
Candidate Starts for Childish_30:
(Start: 37 @28486 has 342 MA's), (74, 28582), (98, 28660), (104, 28687), (143, 28786), (192, 28945), (237, 29125), (244, 29149), (269, 29239), (271, 29245), (283, 29281), (295, 29320), (298, 29329), (306, 29362), (316, 29401), (334, 29446), (351, 29497), (361, 29548), (363, 29557), (380, 29626), (410, 29701), (426, 29746), (429, 29761), (469, 29896), (492, 29950), (499, 29971), (509, 30004), (530, 30049), (551, 30103), (563, 30130), (583, 30187), (590, 30208), (614, 30250), (625, 30289), (642, 30349), (728, 30589), (737, 30625), (751, 30658), (789, 30727),

Gene: ChipMunk_33 Start: 23177, Stop: 25654, Start Num: 21
Candidate Starts for ChipMunk_33:
(Start: 21 @23177 has 3 MA's), (25, 23198), (Start: 61 @23288 has 1 MA's), (93, 23387), (108, 23435), (151, 23567), (226, 23813), (233, 23840), (237, 23855), (256, 23930), (296, 24071), (313, 24143), (350, 24245), (366, 24287), (424, 24455), (437, 24497), (444, 24518), (480, 24629), (483, 24632), (506, 24689), (538, 24755), (539, 24758), (544, 24770), (553, 24812), (555, 24821), (568, 24854), (587, 24911), (630, 25016), (636, 25037), (649, 25076), (703, 25226), (706, 25232), (709, 25247), (712, 25253), (723, 25286), (727, 25298), (729, 25307), (733, 25328), (764, 25397), (810, 25496), (820, 25523), (821, 25526), (836, 25580), (847, 25607),

Gene: Chipette_32 Start: 28976, Stop: 31231, Start Num: 37
Candidate Starts for Chipette_32:
(Start: 37 @28976 has 342 MA's), (74, 29072), (98, 29150), (104, 29177), (143, 29276), (192, 29435), (237, 29615), (244, 29639), (271, 29735), (283, 29771), (295, 29810), (298, 29819), (306, 29852), (316, 29891), (334, 29936), (351, 29987), (361, 30038), (363, 30047), (380, 30116), (410, 30191), (426, 30236), (429, 30251), (469, 30386), (492, 30440), (499, 30461), (509, 30494), (530, 30539), (551, 30593), (563, 30620), (583, 30677), (590, 30698), (614, 30740), (625, 30779), (642, 30839), (728, 31079), (737, 31115), (751, 31148), (789, 31217),

Gene: Chop_25 Start: 21141, Stop: 23651, Start Num: 19
Candidate Starts for Chop_25:
(Start: 19 @21141 has 14 MA's), (74, 21273), (77, 21288), (92, 21333), (102, 21351), (165, 21516), (184, 21570), (186, 21579), (203, 21657), (204, 21663), (247, 21828), (254, 21843), (265, 21879), (288, 21954), (291, 21966), (294, 21975), (300, 21993), (303, 22005), (308, 22038), (309, 22041), (323, 22077), (338, 22131), (369, 22254), (384, 22308), (391, 22329), (396, 22338), (423, 22440), (441, 22500), (453, 22548), (454, 22560), (466, 22605), (500, 22692), (513, 22731), (541, 22800), (545, 22812), (549, 22824), (649, 23112), (659, 23142), (683, 23223), (690, 23244), (697, 23271), (705, 23295), (752, 23460), (771, 23505), (811, 23604), (826, 23643),

Gene: Chorkpop_31 Start: 28482, Stop: 30737, Start Num: 37
Candidate Starts for Chorkpop_31:
(Start: 37 @28482 has 342 MA's), (74, 28578), (98, 28656), (104, 28683), (143, 28782), (192, 28941), (237, 29121), (244, 29145), (269, 29235), (271, 29241), (283, 29277), (295, 29316), (298, 29325), (306, 29358), (316, 29397), (334, 29442), (351, 29493), (361, 29544), (363, 29553), (380, 29622), (410, 29697), (426, 29742), (429, 29757), (469, 29892), (492, 29946), (499, 29967), (509, 30000), (530, 30045), (551, 30099), (563, 30126), (583, 30183), (590, 30204), (614, 30246), (625, 30285), (642, 30345), (728, 30585), (737, 30621), (751, 30654), (789, 30723),

Gene: ChrisnMich_27 Start: 27933, Stop: 30230, Start Num: 37
Candidate Starts for ChrisnMich_27:
(Start: 37 @27933 has 342 MA's), (74, 28032), (79, 28050), (118, 28173), (143, 28236), (167, 28317), (189, 28383), (192, 28395), (218, 28500), (228, 28539), (241, 28590), (244, 28599), (265, 28680), (266, 28683), (283, 28746), (296, 28788), (300, 28800), (335, 28923), (346, 28947), (360, 29010), (368, 29049), (392, 29121), (399, 29142), (410, 29178), (417, 29199), (436, 29265), (440, 29277), (453, 29328), (457, 29331), (460, 29349), (468, 29373), (476, 29400), (492, 29433), (499, 29454), (509, 29487), (530, 29532), (585, 29673), (586, 29676), (590, 29688), (626, 29772), (672, 29907), (682, 29931), (703, 29994), (710, 30024), (713, 30030), (728, 30078), (736, 30111), (737, 30114), (789, 30216), (790, 30219),

Gene: Chuni_31 Start: 28776, Stop: 31031, Start Num: 37
Candidate Starts for Chuni_31:
(Start: 37 @28776 has 342 MA's), (74, 28872), (98, 28950), (104, 28977), (143, 29076), (192, 29235), (237, 29415), (244, 29439), (271, 29535), (283, 29571), (295, 29610), (298, 29619), (306, 29652),

(316, 29691), (334, 29736), (351, 29787), (361, 29838), (363, 29847), (380, 29916), (410, 29991), (426, 30036), (429, 30051), (469, 30186), (492, 30240), (499, 30261), (509, 30294), (530, 30339), (551, 30393), (563, 30420), (583, 30477), (590, 30498), (614, 30540), (625, 30579), (642, 30639), (728, 30879), (737, 30915), (751, 30948), (789, 31017),

Gene: Chunky_31 Start: 28766, Stop: 31024, Start Num: 37
Candidate Starts for Chunky_31:
(Start: 37 @28766 has 342 MA's), (74, 28862), (98, 28940), (104, 28967), (143, 29069), (192, 29228), (237, 29408), (244, 29432), (271, 29528), (283, 29564), (295, 29603), (298, 29612), (306, 29645), (316, 29684), (334, 29729), (351, 29780), (361, 29831), (363, 29840), (380, 29909), (410, 29984), (426, 30029), (429, 30044), (469, 30179), (492, 30233), (499, 30254), (509, 30287), (530, 30332), (551, 30386), (563, 30413), (583, 30470), (590, 30491), (614, 30533), (625, 30572), (642, 30632), (728, 30872), (736, 30905), (737, 30908), (751, 30941), (756, 30947), (789, 31010),

Gene: Chute_31 Start: 28801, Stop: 31062, Start Num: 37
Candidate Starts for Chute_31:
(Start: 37 @28801 has 342 MA's), (74, 28897), (98, 28975), (104, 29002), (133, 29077), (143, 29107), (192, 29266), (237, 29446), (244, 29470), (271, 29566), (283, 29602), (295, 29641), (298, 29650), (306, 29683), (316, 29722), (334, 29767), (351, 29818), (363, 29878), (380, 29947), (410, 30022), (426, 30067), (429, 30082), (469, 30217), (492, 30271), (499, 30292), (509, 30325), (530, 30370), (551, 30424), (563, 30451), (583, 30508), (590, 30529), (614, 30571), (625, 30610), (642, 30670), (728, 30910), (737, 30946), (751, 30979), (789, 31048),

Gene: CinnamonToast_31 Start: 35117, Stop: 37114, Start Num: 6
Candidate Starts for CinnamonToast_31:
(Start: 6 @35117 has 35 MA's), (Start: 20 @35192 has 4 MA's), (32, 35231), (45, 35261), (54, 35288), (56, 35291), (181, 35675), (229, 35867), (251, 35948), (252, 35951), (264, 35987), (287, 36053), (306, 36122), (308, 36140), (353, 36275), (380, 36410), (394, 36443), (415, 36509), (425, 36545), (433, 36581), (457, 36671), (464, 36701), (547, 36905), (551, 36923), (553, 36929), (578, 36989), (601, 37046),

Gene: Clautastrophe_21 Start: 19724, Stop: 22237, Start Num: 18
Candidate Starts for Clautastrophe_21:
(Start: 18 @19724 has 19 MA's), (41, 19787), (68, 19859), (98, 19949), (101, 19955), (127, 20027), (150, 20114), (189, 20219), (192, 20231), (196, 20249), (204, 20288), (212, 20318), (228, 20375), (235, 20405), (237, 20411), (250, 20465), (253, 20471), (294, 20618), (295, 20621), (298, 20630), (303, 20648), (318, 20708), (321, 20717), (325, 20729), (343, 20780), (345, 20783), (386, 20948), (407, 21005), (438, 21089), (444, 21107), (447, 21116), (468, 21179), (514, 21299), (529, 21323), (538, 21344), (544, 21359), (550, 21377), (559, 21407), (589, 21497), (622, 21566), (630, 21599), (636, 21620), (648, 21656), (661, 21692), (675, 21737), (682, 21761), (685, 21767), (689, 21782), (694, 21800), (728, 21887), (733, 21911), (744, 21947), (747, 21953), (760, 21977), (797, 22052), (799, 22055), (832, 22142), (834, 22151), (835, 22157),

Gene: Cobra_31 Start: 28766, Stop: 31021, Start Num: 37
Candidate Starts for Cobra_31:
(Start: 37 @28766 has 342 MA's), (74, 28862), (98, 28940), (104, 28967), (143, 29066), (192, 29225), (237, 29405), (244, 29429), (269, 29519), (271, 29525), (283, 29561), (295, 29600), (298, 29609), (306, 29642), (316, 29681), (334, 29726), (351, 29777), (361, 29828), (363, 29837), (380, 29906), (410, 29981), (426, 30026), (429, 30041), (469, 30176), (492, 30230), (499, 30251), (509, 30284), (530, 30329), (551, 30383), (563, 30410), (583, 30467), (590, 30488), (614, 30530), (625, 30569), (642, 30629), (728, 30869), (737, 30905), (751, 30938), (789, 31007),

Gene: Colbert_31 Start: 28819, Stop: 31077, Start Num: 37

Candidate Starts for Colbert_31:
(Start: 37 @28819 has 342 MA's), (74, 28915), (98, 28993), (104, 29020), (143, 29122), (192, 29281), (237, 29461), (244, 29485), (271, 29581), (283, 29617), (295, 29656), (298, 29665), (306, 29698), (316, 29737), (334, 29782), (351, 29833), (361, 29884), (363, 29893), (380, 29962), (410, 30037), (426, 30082), (429, 30097), (469, 30232), (492, 30286), (499, 30307), (509, 30340), (530, 30385), (551, 30439), (563, 30466), (583, 30523), (590, 30544), (614, 30586), (625, 30625), (642, 30685), (728, 30925), (736, 30958), (737, 30961), (751, 30994), (756, 31000), (789, 31063),

Gene: Coletti_31 Start: 28801, Stop: 31062, Start Num: 37
Candidate Starts for Coletti_31:
(Start: 37 @28801 has 342 MA's), (74, 28897), (98, 28975), (104, 29002), (133, 29077), (143, 29107), (192, 29266), (237, 29446), (244, 29470), (271, 29566), (283, 29602), (295, 29641), (298, 29650), (306, 29683), (316, 29722), (334, 29767), (351, 29818), (363, 29878), (380, 29947), (410, 30022), (426, 30067), (429, 30082), (469, 30217), (492, 30271), (499, 30292), (509, 30325), (530, 30370), (551, 30424), (563, 30451), (583, 30508), (590, 30529), (614, 30571), (625, 30610), (642, 30670), (728, 30910), (737, 30946), (751, 30979), (789, 31048),

Gene: Compostia_32 Start: 29043, Stop: 31268, Start Num: 28
Candidate Starts for Compostia_32:
(Start: 28 @29043 has 52 MA's), (Start: 40 @29058 has 1 MA's), (59, 29103), (79, 29160), (105, 29238), (135, 29307), (143, 29319), (158, 29361), (169, 29397), (179, 29424), (183, 29436), (190, 29463), (211, 29553), (229, 29625), (252, 29709), (286, 29817), (291, 29838), (316, 29931), (323, 29946), (360, 30075), (380, 30156), (410, 30231), (425, 30273), (426, 30279), (453, 30378), (469, 30429), (473, 30441), (492, 30483), (499, 30504), (521, 30558), (530, 30582), (546, 30618), (583, 30714), (586, 30723), (614, 30777), (645, 30885), (656, 30912), (672, 30954), (701, 31026), (728, 31116), (737, 31152),

Gene: Cooper_28 Start: 28155, Stop: 30443, Start Num: 37
Candidate Starts for Cooper_28:
(Start: 37 @28155 has 342 MA's), (63, 28227), (74, 28254), (79, 28272), (143, 28458), (167, 28539), (189, 28605), (218, 28722), (228, 28761), (244, 28821), (265, 28902), (266, 28905), (283, 28968), (300, 29022), (335, 29145), (346, 29169), (360, 29232), (368, 29271), (392, 29343), (399, 29364), (404, 29385), (410, 29400), (417, 29421), (440, 29499), (453, 29550), (457, 29553), (460, 29571), (468, 29595), (476, 29622), (492, 29655), (499, 29676), (509, 29709), (530, 29754), (585, 29895), (586, 29898), (590, 29910), (626, 29994), (630, 30006), (664, 30108), (672, 30129), (685, 30159), (713, 30243), (728, 30291), (736, 30324), (737, 30327), (789, 30429), (790, 30432),

Gene: Cornbread_30 Start: 28482, Stop: 30737, Start Num: 37
Candidate Starts for Cornbread_30:
(Start: 37 @28482 has 342 MA's), (74, 28578), (98, 28656), (104, 28683), (143, 28782), (192, 28941), (237, 29121), (244, 29145), (269, 29235), (271, 29241), (283, 29277), (295, 29316), (298, 29325), (306, 29358), (316, 29397), (334, 29442), (351, 29493), (361, 29544), (363, 29553), (380, 29622), (410, 29697), (426, 29742), (429, 29757), (469, 29892), (492, 29946), (499, 29967), (509, 30000), (530, 30045), (551, 30099), (563, 30126), (583, 30183), (590, 30204), (614, 30246), (625, 30285), (642, 30345), (728, 30585), (736, 30618), (737, 30621), (751, 30654), (756, 30660), (789, 30723),

Gene: Cornobble_30 Start: 28318, Stop: 30576, Start Num: 37
Candidate Starts for Cornobble_30:
(Start: 37 @28318 has 342 MA's), (74, 28414), (98, 28492), (104, 28519), (143, 28621), (192, 28780), (237, 28960), (244, 28984), (271, 29080), (283, 29116), (295, 29155), (298, 29164), (306, 29197), (316, 29236), (334, 29281), (351, 29332), (361, 29383), (363, 29392), (380, 29461), (410, 29536), (426, 29581), (429, 29596), (469, 29731), (492, 29785), (499, 29806), (509, 29839), (530, 29884), (551, 29938), (583, 30022), (590, 30043), (614, 30085), (625, 30124), (642, 30184), (728, 30424),

(736, 30457), (737, 30460), (751, 30493), (756, 30499), (789, 30562),

Gene: Corofin_31 Start: 28638, Stop: 30863, Start Num: 28
Candidate Starts for Corofin_31:
(Start: 28 @28638 has 52 MA's), (Start: 40 @28653 has 1 MA's), (59, 28698), (79, 28755), (105, 28833), (135, 28902), (143, 28914), (158, 28956), (169, 28992), (179, 29019), (183, 29031), (190, 29058), (211, 29148), (229, 29220), (252, 29304), (286, 29412), (291, 29433), (316, 29526), (323, 29541), (360, 29670), (380, 29751), (410, 29826), (425, 29868), (426, 29874), (436, 29910), (469, 30024), (473, 30036), (492, 30078), (499, 30099), (521, 30153), (530, 30177), (546, 30213), (583, 30309), (586, 30318), (614, 30372), (645, 30480), (656, 30507), (672, 30549), (701, 30621), (728, 30711), (737, 30747),

Gene: Cosmolli16_30 Start: 28480, Stop: 30735, Start Num: 37
Candidate Starts for Cosmolli16_30:
(Start: 37 @28480 has 342 MA's), (74, 28576), (98, 28654), (104, 28681), (143, 28780), (192, 28939), (237, 29119), (244, 29143), (269, 29233), (271, 29239), (283, 29275), (295, 29314), (298, 29323), (306, 29356), (316, 29395), (334, 29440), (351, 29491), (361, 29542), (363, 29551), (380, 29620), (410, 29695), (426, 29740), (429, 29755), (469, 29890), (492, 29944), (499, 29965), (509, 29998), (530, 30043), (551, 30097), (563, 30124), (583, 30181), (590, 30202), (614, 30244), (625, 30283), (642, 30343), (728, 30583), (736, 30616), (737, 30619), (751, 30652), (756, 30658), (789, 30721),

Gene: Cracklewink_27 Start: 23567, Stop: 26155, Start Num: 31
Candidate Starts for Cracklewink_27:
(Start: 31 @23567 has 6 MA's), (104, 23756), (115, 23777), (121, 23807), (141, 23870), (160, 23936), (161, 23939), (176, 23981), (193, 24032), (202, 24068), (208, 24107), (243, 24242), (264, 24320), (265, 24323), (288, 24404), (296, 24434), (305, 24470), (315, 24509), (319, 24521), (332, 24551), (334, 24557), (335, 24569), (336, 24578), (340, 24590), (348, 24614), (354, 24638), (372, 24731), (382, 24764), (383, 24767), (406, 24842), (411, 24854), (440, 24938), (520, 25184), (524, 25190), (542, 25247), (568, 25328), (584, 25376), (627, 25490), (645, 25556), (675, 25643), (685, 25673), (702, 25724), (728, 25796), (733, 25820), (735, 25826), (742, 25847), (748, 25865), (786, 25934), (822, 26009), (834, 26048), (835, 26054), (836, 26060), (855, 26138), (859, 26147),

Gene: Craff_31 Start: 28764, Stop: 31019, Start Num: 37
Candidate Starts for Craff_31:
(Start: 37 @28764 has 342 MA's), (74, 28860), (98, 28938), (104, 28965), (143, 29064), (192, 29223), (237, 29403), (244, 29427), (269, 29517), (271, 29523), (283, 29559), (295, 29598), (298, 29607), (306, 29640), (316, 29679), (334, 29724), (351, 29775), (361, 29826), (363, 29835), (380, 29904), (410, 29979), (426, 30024), (429, 30039), (469, 30174), (492, 30228), (499, 30249), (509, 30282), (530, 30327), (551, 30381), (563, 30408), (583, 30465), (590, 30486), (614, 30528), (625, 30567), (642, 30627), (728, 30867), (736, 30900), (737, 30903), (751, 30936), (756, 30942), (789, 31005),

Gene: Crownjwl_31 Start: 28533, Stop: 30791, Start Num: 37
Candidate Starts for Crownjwl_31:
(Start: 37 @28533 has 342 MA's), (74, 28629), (98, 28707), (104, 28734), (143, 28836), (192, 28995), (237, 29175), (244, 29199), (246, 29211), (271, 29295), (283, 29331), (295, 29370), (298, 29379), (306, 29412), (316, 29451), (334, 29496), (351, 29547), (361, 29598), (363, 29607), (380, 29676), (410, 29751), (426, 29796), (429, 29811), (469, 29946), (492, 30000), (499, 30021), (509, 30054), (530, 30099), (551, 30153), (583, 30237), (590, 30258), (614, 30300), (625, 30339), (642, 30399), (728, 30639), (736, 30672), (737, 30675), (751, 30708), (756, 30714), (789, 30777),

Gene: Curiosium_28 Start: 20582, Stop: 23062, Start Num: 70
Candidate Starts for Curiosium_28:

(Start: 70 @20582 has 1 MA's), (129, 20753), (146, 20810), (164, 20861), (192, 20945), (205, 21017), (224, 21077), (229, 21098), (236, 21125), (242, 21149), (249, 21185), (267, 21230), (268, 21233), (296, 21332), (297, 21335), (306, 21371), (321, 21422), (336, 21476), (347, 21509), (370, 21635), (372, 21644), (406, 21767), (411, 21779), (446, 21878), (459, 21947), (469, 21980), (521, 22109), (525, 22115), (543, 22172), (549, 22190), (582, 22304), (591, 22331), (598, 22343), (606, 22358), (616, 22385), (621, 22400), (630, 22436), (632, 22439), (667, 22556), (671, 22571), (714, 22712), (744, 22820), (779, 22859), (781, 22862), (792, 22886), (832, 22964), (842, 23009), (850, 23027),

Gene: DaddyDaniels_31 Start: 28455, Stop: 30710, Start Num: 37
Candidate Starts for DaddyDaniels_31:
(Start: 37 @28455 has 342 MA's), (74, 28551), (98, 28629), (104, 28656), (143, 28755), (192, 28914), (237, 29094), (244, 29118), (271, 29214), (283, 29250), (295, 29289), (298, 29298), (306, 29331), (316, 29370), (334, 29415), (351, 29466), (361, 29517), (363, 29526), (380, 29595), (410, 29670), (426, 29715), (429, 29730), (469, 29865), (492, 29919), (499, 29940), (509, 29973), (530, 30018), (551, 30072), (563, 30099), (583, 30156), (590, 30177), (614, 30219), (625, 30258), (642, 30318), (728, 30558), (737, 30594), (751, 30627), (789, 30696),

Gene: Daffy_31 Start: 28486, Stop: 30741, Start Num: 37
Candidate Starts for Daffy_31:
(Start: 37 @28486 has 342 MA's), (74, 28582), (98, 28660), (104, 28687), (143, 28786), (192, 28945), (237, 29125), (244, 29149), (269, 29239), (271, 29245), (283, 29281), (295, 29320), (298, 29329), (306, 29362), (316, 29401), (334, 29446), (351, 29497), (361, 29548), (363, 29557), (380, 29626), (410, 29701), (426, 29746), (429, 29761), (469, 29896), (492, 29950), (499, 29971), (509, 30004), (530, 30049), (551, 30103), (563, 30130), (583, 30187), (590, 30208), (614, 30250), (625, 30289), (642, 30349), (728, 30589), (737, 30625), (751, 30658), (789, 30727),

Gene: Daisy_31 Start: 28640, Stop: 30865, Start Num: 28
Candidate Starts for Daisy_31:
(Start: 28 @28640 has 52 MA's), (Start: 40 @28655 has 1 MA's), (59, 28700), (79, 28757), (105, 28835), (135, 28904), (143, 28916), (158, 28958), (169, 28994), (179, 29021), (183, 29033), (190, 29060), (211, 29150), (229, 29222), (252, 29306), (286, 29414), (291, 29435), (316, 29528), (323, 29543), (360, 29672), (380, 29753), (410, 29828), (425, 29870), (426, 29876), (436, 29912), (469, 30026), (473, 30038), (492, 30080), (499, 30101), (521, 30155), (530, 30179), (546, 30215), (583, 30311), (586, 30320), (614, 30374), (645, 30482), (656, 30509), (672, 30551), (701, 30623), (728, 30713), (737, 30749),

Gene: Daka_31 Start: 28760, Stop: 31015, Start Num: 37
Candidate Starts for Daka_31:
(Start: 37 @28760 has 342 MA's), (74, 28856), (98, 28934), (104, 28961), (143, 29060), (192, 29219), (237, 29399), (244, 29423), (271, 29519), (283, 29555), (295, 29594), (298, 29603), (306, 29636), (316, 29675), (334, 29720), (351, 29771), (361, 29822), (363, 29831), (380, 29900), (410, 29975), (426, 30020), (429, 30035), (469, 30170), (492, 30224), (499, 30245), (509, 30278), (530, 30323), (551, 30377), (563, 30404), (583, 30461), (590, 30482), (614, 30524), (625, 30563), (642, 30623), (728, 30863), (737, 30899), (751, 30932), (789, 31001),

Gene: Damp_27 Start: 34482, Stop: 36503, Start Num: 6
Candidate Starts for Damp_27:
(Start: 6 @34482 has 35 MA's), (14, 34530), (23, 34566), (26, 34584), (30, 34593), (44, 34623), (45, 34626), (84, 34737), (122, 34857), (257, 35334), (261, 35343), (294, 35442), (306, 35487), (327, 35553), (353, 35640), (380, 35775), (394, 35808), (455, 36033), (457, 36039), (509, 36198), (551, 36315), (553, 36321), (566, 36348), (578, 36381), (617, 36477),

Gene: DarthP_26 Start: 21319, Stop: 23703, Start Num: 24

Candidate Starts for DarthP_26:
(Start: 24 @21319 has 60 MA's), (26, 21328), (44, 21367), (89, 21490), (142, 21547), (144, 21559), (169, 21625), (188, 21679), (204, 21757), (228, 21847), (238, 21889), (254, 21940), (271, 21982), (272, 21985), (276, 22006), (294, 22066), (296, 22072), (352, 22264), (377, 22381), (408, 22450), (424, 22489), (431, 22519), (480, 22663), (542, 22798), (543, 22801), (544, 22804), (557, 22843), (574, 22897), (625, 23038), (627, 23044), (633, 23059), (670, 23188), (674, 23194), (708, 23290), (712, 23299), (721, 23323), (727, 23344), (817, 23551), (823, 23566), (824, 23569), (857, 23677),

Gene: Dartin_27 Start: 20230, Stop: 22731, Start Num: 24
Candidate Starts for Dartin_27:
(Start: 24 @20230 has 60 MA's), (44, 20278), (63, 20329), (89, 20401), (141, 20452), (144, 20470), (155, 20503), (164, 20524), (169, 20536), (188, 20590), (204, 20668), (214, 20707), (229, 20764), (238, 20800), (254, 20851), (267, 20881), (272, 20896), (277, 20920), (288, 20953), (294, 20974), (296, 20980), (306, 21019), (352, 21172), (357, 21205), (360, 21217), (374, 21280), (406, 21364), (459, 21547), (476, 21601), (496, 21643), (565, 21835), (568, 21841), (574, 21865), (594, 21928), (614, 21967), (633, 22030), (645, 22087), (657, 22120), (663, 22138), (675, 22177), (687, 22216), (689, 22222), (709, 22279), (744, 22393), (775, 22447), (782, 22462), (796, 22492), (803, 22504), (823, 22561), (829, 22579), (837, 22609), (838, 22627), (858, 22708),

Gene: Dati_31 Start: 28480, Stop: 30735, Start Num: 37
Candidate Starts for Dati_31:
(Start: 37 @28480 has 342 MA's), (74, 28576), (98, 28654), (104, 28681), (143, 28780), (192, 28939), (237, 29119), (244, 29143), (269, 29233), (271, 29239), (283, 29275), (295, 29314), (298, 29323), (306, 29356), (316, 29395), (334, 29440), (351, 29491), (361, 29542), (363, 29551), (380, 29620), (410, 29695), (426, 29740), (429, 29755), (469, 29890), (492, 29944), (499, 29965), (509, 29998), (530, 30043), (551, 30097), (563, 30124), (583, 30181), (590, 30202), (614, 30244), (625, 30283), (642, 30343), (728, 30583), (736, 30616), (737, 30619), (751, 30652), (756, 30658), (789, 30721),

Gene: DaviePasture_30 Start: 26566, Stop: 28572, Start Num: 5
Candidate Starts for DaviePasture_30:
(Start: 5 @26566 has 38 MA's), (29, 26680), (34, 26689), (39, 26698), (41, 26701), (45, 26710), (73, 26779), (192, 27142), (244, 27349), (251, 27376), (252, 27379), (254, 27382), (264, 27415), (283, 27469), (298, 27517), (300, 27523), (306, 27550), (331, 27628), (344, 27679), (380, 27838), (394, 27871), (419, 27952), (468, 28144), (497, 28222), (498, 28228), (551, 28381), (553, 28387), (567, 28417), (578, 28450), (617, 28546),

Gene: Deenasa_31 Start: 29376, Stop: 31604, Start Num: 28
Candidate Starts for Deenasa_31:
(Start: 28 @29376 has 52 MA's), (Start: 40 @29391 has 1 MA's), (59, 29436), (79, 29493), (105, 29571), (135, 29640), (143, 29652), (158, 29694), (169, 29730), (179, 29757), (183, 29769), (190, 29796), (211, 29886), (229, 29958), (252, 30042), (286, 30150), (291, 30171), (316, 30264), (323, 30279), (360, 30408), (380, 30489), (410, 30564), (425, 30606), (426, 30612), (436, 30648), (469, 30762), (473, 30774), (492, 30816), (499, 30837), (521, 30891), (530, 30915), (546, 30951), (583, 31050), (586, 31059), (614, 31113), (645, 31221), (656, 31248), (672, 31290), (701, 31362), (728, 31452), (737, 31488),

Gene: DelRio_26 Start: 21615, Stop: 24125, Start Num: 19
Candidate Starts for DelRio_26:
(Start: 19 @21615 has 14 MA's), (74, 21747), (77, 21762), (92, 21807), (102, 21825), (165, 21990), (184, 22044), (186, 22053), (203, 22131), (204, 22137), (247, 22302), (254, 22317), (265, 22353), (288, 22428), (291, 22440), (294, 22449), (300, 22467), (303, 22479), (306, 22494), (308, 22512), (309, 22515), (323, 22551), (338, 22605), (366, 22710), (369, 22728), (384, 22782), (396, 22812), (423, 22914), (441, 22974), (453, 23022), (454, 23034), (466, 23079), (500, 23166), (513, 23205),

(541, 23274), (545, 23286), (630, 23520), (649, 23586), (659, 23616), (683, 23697), (705, 23769), (752, 23934), (771, 23979), (811, 24078), (826, 24117),

Gene: DelRivs_30 Start: 28481, Stop: 30736, Start Num: 37
Candidate Starts for DelRivs_30:
(Start: 37 @28481 has 342 MA's), (74, 28577), (98, 28655), (104, 28682), (143, 28781), (192, 28940), (237, 29120), (244, 29144), (269, 29234), (271, 29240), (283, 29276), (295, 29315), (298, 29324), (306, 29357), (316, 29396), (334, 29441), (351, 29492), (361, 29543), (363, 29552), (380, 29621), (410, 29696), (426, 29741), (429, 29756), (469, 29891), (492, 29945), (499, 29966), (509, 29999), (530, 30044), (551, 30098), (563, 30125), (583, 30182), (590, 30203), (614, 30245), (625, 30284), (642, 30344), (728, 30584), (736, 30617), (737, 30620), (751, 30653), (756, 30659), (789, 30722),

Gene: Derpp_30 Start: 28325, Stop: 30580, Start Num: 37
Candidate Starts for Derpp_30:
(Start: 37 @28325 has 342 MA's), (74, 28421), (98, 28499), (104, 28526), (143, 28625), (192, 28784), (237, 28964), (244, 28988), (271, 29084), (283, 29120), (295, 29159), (298, 29168), (306, 29201), (316, 29240), (334, 29285), (351, 29336), (363, 29396), (380, 29465), (410, 29540), (426, 29585), (429, 29600), (469, 29735), (492, 29789), (499, 29810), (509, 29843), (530, 29888), (551, 29942), (563, 29969), (583, 30026), (590, 30047), (614, 30089), (625, 30128), (642, 30188), (728, 30428), (736, 30461), (737, 30464), (751, 30497), (789, 30566),

Gene: Devonte_31 Start: 28604, Stop: 30829, Start Num: 28
Candidate Starts for Devonte_31:
(Start: 28 @28604 has 52 MA's), (Start: 40 @28619 has 1 MA's), (59, 28664), (79, 28721), (105, 28799), (135, 28868), (143, 28880), (158, 28922), (169, 28958), (179, 28985), (183, 28997), (190, 29024), (211, 29114), (229, 29186), (252, 29270), (286, 29378), (291, 29399), (316, 29492), (323, 29507), (360, 29636), (380, 29717), (410, 29792), (425, 29834), (426, 29840), (436, 29876), (469, 29990), (473, 30002), (492, 30044), (499, 30065), (521, 30119), (530, 30143), (546, 30179), (583, 30275), (586, 30284), (614, 30338), (645, 30446), (656, 30473), (672, 30515), (701, 30587), (728, 30677), (737, 30713),

Gene: Diabla_29 Start: 34911, Stop: 36917, Start Num: 6
Candidate Starts for Diabla_29:
(Start: 6 @34911 has 35 MA's), (26, 35013), (45, 35055), (84, 35166), (110, 35247), (163, 35409), (172, 35442), (209, 35583), (234, 35679), (235, 35685), (254, 35748), (288, 35850), (291, 35862), (294, 35871), (296, 35877), (353, 36069), (380, 36204), (394, 36237), (425, 36339), (436, 36381), (511, 36615), (551, 36726), (552, 36729), (553, 36732), (578, 36792),

Gene: Dice_30 Start: 28460, Stop: 30715, Start Num: 37
Candidate Starts for Dice_30:
(Start: 37 @28460 has 342 MA's), (74, 28556), (98, 28634), (104, 28661), (143, 28760), (192, 28919), (237, 29099), (244, 29123), (269, 29213), (271, 29219), (283, 29255), (295, 29294), (298, 29303), (306, 29336), (316, 29375), (334, 29420), (351, 29471), (361, 29522), (363, 29531), (380, 29600), (410, 29675), (426, 29720), (429, 29735), (469, 29870), (492, 29924), (499, 29945), (509, 29978), (530, 30023), (551, 30077), (563, 30104), (583, 30161), (590, 30182), (614, 30224), (625, 30263), (642, 30323), (728, 30563), (737, 30599), (751, 30632), (789, 30701),

Gene: DigitDog_30 Start: 28569, Stop: 30836, Start Num: 37
Candidate Starts for DigitDog_30:
(Start: 37 @28569 has 342 MA's), (56, 28617), (67, 28647), (74, 28665), (85, 28701), (90, 28722), (97, 28740), (118, 28803), (151, 28908), (192, 29031), (194, 29037), (218, 29136), (245, 29238), (258, 29292), (295, 29412), (300, 29427), (306, 29454), (361, 29640), (368, 29676), (380, 29718), (410, 29793), (426, 29844), (436, 29880), (453, 29943), (461, 29967), (469, 29994), (521, 30123), (530,

30147), (583, 30282), (586, 30291), (590, 30303), (614, 30345), (625, 30384), (626, 30387), (641, 30441), (645, 30453), (658, 30483), (664, 30501), (689, 30567), (728, 30684), (789, 30822),

Gene: Dingo_31 Start: 28743, Stop: 30998, Start Num: 37
Candidate Starts for Dingo_31:
(Start: 37 @28743 has 342 MA's), (74, 28839), (98, 28917), (104, 28944), (143, 29043), (192, 29202), (237, 29382), (244, 29406), (271, 29502), (283, 29538), (295, 29577), (298, 29586), (306, 29619), (316, 29658), (334, 29703), (351, 29754), (361, 29805), (363, 29814), (380, 29883), (410, 29958), (426, 30003), (429, 30018), (469, 30153), (492, 30207), (499, 30228), (509, 30261), (530, 30306), (551, 30360), (563, 30387), (583, 30444), (590, 30465), (614, 30507), (625, 30546), (642, 30606), (662, 30657), (728, 30846), (737, 30882), (751, 30915), (789, 30984),

Gene: Dione_30 Start: 28465, Stop: 30720, Start Num: 37
Candidate Starts for Dione_30:
(Start: 37 @28465 has 342 MA's), (74, 28561), (98, 28639), (104, 28666), (143, 28765), (192, 28924), (237, 29104), (244, 29128), (269, 29218), (271, 29224), (283, 29260), (295, 29299), (298, 29308), (306, 29341), (316, 29380), (334, 29425), (351, 29476), (361, 29527), (363, 29536), (380, 29605), (410, 29680), (426, 29725), (429, 29740), (469, 29875), (492, 29929), (499, 29950), (509, 29983), (530, 30028), (551, 30082), (563, 30109), (583, 30166), (590, 30187), (614, 30229), (625, 30268), (642, 30328), (728, 30568), (737, 30604), (751, 30637), (789, 30706),

Gene: DirtJuice_31 Start: 28749, Stop: 31004, Start Num: 37
Candidate Starts for DirtJuice_31:
(Start: 37 @28749 has 342 MA's), (74, 28845), (98, 28923), (104, 28950), (143, 29049), (192, 29208), (237, 29388), (244, 29412), (271, 29508), (283, 29544), (295, 29583), (298, 29592), (306, 29625), (316, 29664), (334, 29709), (351, 29760), (361, 29811), (363, 29820), (380, 29889), (410, 29964), (426, 30009), (429, 30024), (469, 30159), (492, 30213), (499, 30234), (509, 30267), (530, 30312), (551, 30366), (563, 30393), (583, 30450), (590, 30471), (614, 30513), (625, 30552), (642, 30612), (728, 30852), (737, 30888), (751, 30921), (789, 30990),

Gene: DismalFunk_23 Start: 18661, Stop: 21000, Start Num: 24
Candidate Starts for DismalFunk_23:
(Start: 24 @18661 has 60 MA's), (89, 18832), (93, 18850), (103, 18874), (185, 19018), (193, 19051), (227, 19180), (229, 19189), (233, 19204), (236, 19216), (238, 19225), (252, 19273), (282, 19369), (288, 19387), (294, 19408), (306, 19453), (344, 19555), (364, 19627), (373, 19669), (374, 19675), (377, 19684), (406, 19771), (416, 19792), (428, 19834), (436, 19855), (476, 19972), (478, 19981), (518, 20071), (544, 20125), (548, 20137), (554, 20161), (596, 20275), (613, 20302), (630, 20359), (645, 20416), (692, 20548), (706, 20578), (722, 20629), (728, 20647), (735, 20677), (757, 20731), (774, 20761), (783, 20782), (839, 20914),

Gene: DismalStressor_23 Start: 18661, Stop: 21000, Start Num: 24
Candidate Starts for DismalStressor_23:
(Start: 24 @18661 has 60 MA's), (89, 18832), (93, 18850), (103, 18874), (185, 19018), (193, 19051), (227, 19180), (229, 19189), (233, 19204), (236, 19216), (238, 19225), (252, 19273), (282, 19369), (288, 19387), (294, 19408), (306, 19453), (344, 19555), (364, 19627), (373, 19669), (374, 19675), (377, 19684), (406, 19771), (416, 19792), (428, 19834), (436, 19855), (476, 19972), (478, 19981), (518, 20071), (544, 20125), (548, 20137), (554, 20161), (596, 20275), (613, 20302), (630, 20359), (645, 20416), (692, 20548), (706, 20578), (722, 20629), (728, 20647), (735, 20677), (757, 20731), (774, 20761), (783, 20782), (839, 20914),

Gene: Doddsville_31 Start: 28479, Stop: 30734, Start Num: 37
Candidate Starts for Doddsville_31:

(Start: 37 @28479 has 342 MA's), (74, 28575), (98, 28653), (104, 28680), (143, 28779), (192, 28938), (237, 29118), (244, 29142), (271, 29238), (283, 29274), (295, 29313), (298, 29322), (306, 29355), (316, 29394), (334, 29439), (351, 29490), (363, 29550), (380, 29619), (410, 29694), (426, 29739), (429, 29754), (469, 29889), (492, 29943), (499, 29964), (509, 29997), (530, 30042), (551, 30096), (563, 30123), (583, 30180), (590, 30201), (614, 30243), (625, 30282), (642, 30342), (728, 30582), (736, 30615), (737, 30618), (751, 30651), (789, 30720),

Gene: DoesntMatter_31 Start: 28745, Stop: 31000, Start Num: 37
Candidate Starts for DoesntMatter_31:
(Start: 37 @28745 has 342 MA's), (74, 28841), (98, 28919), (104, 28946), (143, 29045), (192, 29204), (237, 29384), (244, 29408), (269, 29498), (271, 29504), (283, 29540), (295, 29579), (298, 29588), (306, 29621), (316, 29660), (334, 29705), (351, 29756), (361, 29807), (363, 29816), (380, 29885), (410, 29960), (426, 30005), (429, 30020), (469, 30155), (492, 30209), (499, 30230), (509, 30263), (530, 30308), (551, 30362), (563, 30389), (583, 30446), (590, 30467), (614, 30509), (625, 30548), (642, 30608), (728, 30848), (736, 30881), (737, 30884), (751, 30917), (756, 30923), (789, 30986),

Gene: Dogfish_28 Start: 23683, Stop: 26286, Start Num: 10
Candidate Starts for Dogfish_28:
(Start: 10 @23683 has 1 MA's), (49, 23797), (51, 23806), (154, 24109), (168, 24151), (203, 24283), (238, 24418), (247, 24454), (264, 24502), (270, 24520), (278, 24544), (288, 24580), (291, 24592), (303, 24631), (306, 24646), (308, 24664), (403, 24997), (513, 25360), (533, 25402), (541, 25423), (546, 25438), (553, 25465), (599, 25591), (602, 25597), (660, 25774), (683, 25855), (695, 25894), (705, 25927), (764, 26113), (770, 26134), (826, 26278),

Gene: DolOn_32 Start: 28989, Stop: 31244, Start Num: 37
Candidate Starts for DolOn_32:
(Start: 37 @28989 has 342 MA's), (74, 29085), (98, 29163), (104, 29190), (143, 29289), (192, 29448), (237, 29628), (244, 29652), (269, 29742), (271, 29748), (283, 29784), (295, 29823), (298, 29832), (306, 29865), (316, 29904), (334, 29949), (351, 30000), (361, 30051), (363, 30060), (380, 30129), (410, 30204), (426, 30249), (429, 30264), (469, 30399), (492, 30453), (499, 30474), (509, 30507), (530, 30552), (551, 30606), (563, 30633), (583, 30690), (590, 30711), (614, 30753), (625, 30792), (642, 30852), (728, 31092), (736, 31125), (737, 31128), (751, 31161), (756, 31167), (789, 31230),

Gene: DonSanchon_30 Start: 28459, Stop: 30714, Start Num: 37
Candidate Starts for DonSanchon_30:
(Start: 37 @28459 has 342 MA's), (74, 28555), (98, 28633), (104, 28660), (143, 28759), (192, 28918), (237, 29098), (244, 29122), (269, 29212), (271, 29218), (283, 29254), (295, 29293), (298, 29302), (306, 29335), (316, 29374), (334, 29419), (351, 29470), (361, 29521), (363, 29530), (380, 29599), (410, 29674), (426, 29719), (429, 29734), (469, 29869), (492, 29923), (499, 29944), (509, 29977), (530, 30022), (551, 30076), (563, 30103), (583, 30160), (590, 30181), (614, 30223), (625, 30262), (642, 30322), (728, 30562), (737, 30598), (751, 30631), (789, 30700),

Gene: Donny_30 Start: 28983, Stop: 31259, Start Num: 37
Candidate Starts for Donny_30:
(Start: 37 @28983 has 342 MA's), (Start: 40 @28989 has 1 MA's), (56, 29031), (63, 29052), (67, 29061), (85, 29115), (90, 29136), (97, 29154), (98, 29157), (113, 29199), (116, 29205), (118, 29217), (143, 29286), (151, 29322), (192, 29445), (218, 29550), (258, 29706), (266, 29733), (280, 29784), (295, 29835), (300, 29850), (361, 30063), (368, 30099), (380, 30141), (410, 30216), (453, 30366), (461, 30390), (469, 30417), (499, 30492), (521, 30546), (583, 30705), (586, 30714), (590, 30726), (625, 30807), (626, 30810), (645, 30876), (664, 30924), (689, 30990), (728, 31107),

Gene: DoobyDoo_29 Start: 25722, Stop: 27725, Start Num: 5
Candidate Starts for DoobyDoo_29:

(Start: 5 @25722 has 38 MA's), (29, 25836), (34, 25845), (39, 25854), (41, 25857), (45, 25866), (73, 25935), (136, 26121), (192, 26298), (209, 26373), (233, 26466), (244, 26505), (252, 26535), (264, 26571), (269, 26586), (283, 26625), (298, 26673), (300, 26679), (306, 26706), (331, 26784), (344, 26835), (380, 26994), (394, 27027), (419, 27108), (460, 27276), (468, 27300), (551, 27537), (553, 27543), (567, 27573), (578, 27606),

Gene: Doughnut_23 Start: 18681, Stop: 21020, Start Num: 24
Candidate Starts for Doughnut_23:
(Start: 24 @18681 has 60 MA's), (142, 18921), (181, 19029), (185, 19038), (190, 19059), (195, 19083), (230, 19212), (233, 19224), (252, 19293), (294, 19428), (300, 19446), (306, 19473), (344, 19575), (364, 19647), (373, 19689), (374, 19695), (377, 19704), (380, 19710), (406, 19791), (416, 19812), (428, 19854), (436, 19875), (448, 19905), (476, 19992), (478, 20001), (497, 20037), (518, 20091), (544, 20145), (548, 20157), (568, 20217), (589, 20277), (596, 20295), (613, 20322), (630, 20379), (692, 20568), (706, 20598), (730, 20676), (735, 20697), (750, 20739), (770, 20772), (774, 20781), (783, 20802), (800, 20829), (833, 20910), (839, 20934),

Gene: DuchessDung_29 Start: 27616, Stop: 29871, Start Num: 37
Candidate Starts for DuchessDung_29:
(Start: 37 @27616 has 342 MA's), (74, 27712), (98, 27790), (104, 27817), (143, 27916), (192, 28075), (237, 28255), (244, 28279), (271, 28375), (283, 28411), (295, 28450), (298, 28459), (306, 28492), (316, 28531), (334, 28576), (351, 28627), (361, 28678), (363, 28687), (380, 28756), (410, 28831), (426, 28876), (429, 28891), (469, 29026), (492, 29080), (499, 29101), (509, 29134), (530, 29179), (551, 29233), (563, 29260), (583, 29317), (590, 29338), (614, 29380), (625, 29419), (642, 29479), (728, 29719), (736, 29752), (737, 29755), (751, 29788), (756, 29794), (789, 29857),

Gene: Duggie_30 Start: 28481, Stop: 30736, Start Num: 37
Candidate Starts for Duggie_30:
(Start: 37 @28481 has 342 MA's), (74, 28577), (98, 28655), (104, 28682), (143, 28781), (192, 28940), (237, 29120), (244, 29144), (271, 29240), (283, 29276), (295, 29315), (298, 29324), (306, 29357), (316, 29396), (334, 29441), (351, 29492), (361, 29543), (363, 29552), (380, 29621), (410, 29696), (426, 29741), (429, 29756), (469, 29891), (492, 29945), (499, 29966), (509, 29999), (530, 30044), (551, 30098), (563, 30125), (583, 30182), (590, 30203), (614, 30245), (625, 30284), (642, 30344), (728, 30584), (737, 30620), (751, 30653), (789, 30722),

Gene: DuncansLeg_21 Start: 19709, Stop: 22222, Start Num: 18
Candidate Starts for DuncansLeg_21:
(Start: 18 @19709 has 19 MA's), (41, 19772), (67, 19841), (68, 19844), (127, 20012), (189, 20204), (196, 20234), (204, 20273), (212, 20303), (228, 20360), (235, 20390), (237, 20396), (250, 20450), (253, 20456), (294, 20603), (295, 20606), (298, 20615), (303, 20633), (318, 20693), (325, 20714), (343, 20765), (345, 20768), (353, 20795), (386, 20933), (407, 20990), (438, 21074), (444, 21092), (447, 21101), (468, 21164), (496, 21230), (514, 21284), (538, 21329), (544, 21344), (559, 21392), (589, 21482), (596, 21500), (620, 21545), (622, 21551), (630, 21584), (635, 21602), (648, 21641), (661, 21677), (675, 21722), (682, 21746), (689, 21767), (694, 21785), (709, 21818), (733, 21896), (744, 21932), (760, 21962), (797, 22037), (812, 22073), (834, 22136), (835, 22142),

Gene: Durga_31 Start: 28778, Stop: 31033, Start Num: 37
Candidate Starts for Durga_31:
(Start: 37 @28778 has 342 MA's), (74, 28874), (98, 28952), (104, 28979), (143, 29078), (192, 29237), (237, 29417), (244, 29441), (271, 29537), (283, 29573), (295, 29612), (298, 29621), (306, 29654), (316, 29693), (334, 29738), (351, 29789), (361, 29840), (363, 29849), (380, 29918), (410, 29993), (426, 30038), (429, 30053), (469, 30188), (492, 30242), (499, 30263), (509, 30296), (530, 30341), (551, 30395), (563, 30422), (583, 30479), (590, 30500), (614, 30542), (625, 30581), (642, 30641), (728, 30881), (737, 30917), (751, 30950), (789, 31019),

Gene: Dynamo_21 Start: 19047, Stop: 21686, Start Num: 9
Candidate Starts for Dynamo_21:
(Start: 9 @19047 has 17 MA's), (11, 19056), (62, 19200), (157, 19473), (160, 19482), (161, 19485), (170, 19506), (174, 19518), (176, 19527), (186, 19551), (200, 19605), (215, 19683), (224, 19713), (233, 19749), (238, 19770), (242, 19785), (254, 19827), (265, 19860), (288, 19935), (294, 19959), (296, 19965), (300, 19977), (307, 20019), (309, 20025), (337, 20112), (368, 20244), (372, 20262), (382, 20295), (392, 20322), (406, 20373), (468, 20583), (494, 20649), (507, 20685), (544, 20784), (548, 20796), (568, 20859), (627, 21021), (633, 21036), (645, 21087), (685, 21204), (700, 21249), (718, 21291), (728, 21327), (743, 21381), (768, 21429), (833, 21573), (845, 21630), (855, 21669), (859, 21678),

Gene: EastView9101_29 Start: 28633, Stop: 30909, Start Num: 37
Candidate Starts for EastView9101_29:
(Start: 37 @28633 has 342 MA's), (Start: 40 @28639 has 1 MA's), (56, 28681), (63, 28702), (67, 28711), (85, 28765), (90, 28786), (97, 28804), (98, 28807), (113, 28849), (116, 28855), (118, 28867), (143, 28936), (151, 28972), (192, 29095), (218, 29200), (258, 29356), (266, 29383), (280, 29434), (295, 29485), (300, 29500), (361, 29713), (368, 29749), (380, 29791), (410, 29866), (453, 30016), (461, 30040), (469, 30067), (499, 30142), (521, 30196), (583, 30355), (586, 30364), (590, 30376), (625, 30457), (626, 30460), (645, 30526), (664, 30574), (689, 30640), (728, 30757),

Gene: Ekdilam_24 Start: 21084, Stop: 23462, Start Num: 24
Candidate Starts for Ekdilam_24:
(Start: 24 @21084 has 60 MA's), (26, 21093), (44, 21132), (89, 21255), (144, 21324), (188, 21444), (228, 21612), (238, 21654), (254, 21705), (271, 21747), (272, 21750), (276, 21771), (296, 21837), (323, 21933), (352, 22029), (361, 22077), (377, 22146), (408, 22215), (424, 22254), (431, 22284), (480, 22428), (542, 22563), (543, 22566), (544, 22569), (557, 22608), (574, 22662), (596, 22725), (625, 22803), (627, 22809), (633, 22824), (635, 22836), (644, 22866), (670, 22953), (674, 22959), (712, 23064), (721, 23088), (727, 23109), (742, 23163), (755, 23193), (775, 23223), (816, 23304), (823, 23325), (824, 23328), (857, 23436),

Gene: Ellie_24 Start: 21059, Stop: 23461, Start Num: 24
Candidate Starts for Ellie_24:
(Start: 24 @21059 has 60 MA's), (Start: 37 @21089 has 342 MA's), (44, 21107), (76, 21191), (169, 21365), (204, 21497), (228, 21587), (238, 21629), (254, 21680), (271, 21722), (272, 21725), (288, 21782), (294, 21806), (296, 21812), (306, 21851), (323, 21908), (352, 22004), (377, 22121), (408, 22190), (424, 22229), (431, 22259), (447, 22301), (480, 22403), (542, 22538), (543, 22541), (544, 22544), (557, 22583), (574, 22637), (625, 22775), (627, 22781), (633, 22796), (635, 22808), (644, 22838), (670, 22925), (674, 22931), (687, 22973), (727, 23081), (742, 23135), (783, 23231), (786, 23237), (795, 23255), (809, 23291), (811, 23294), (815, 23303), (823, 23327), (832, 23354),

Gene: Ellson_21 Start: 19717, Stop: 22227, Start Num: 18
Candidate Starts for Ellson_21:
(Start: 18 @19717 has 19 MA's), (41, 19780), (83, 19900), (145, 20086), (189, 20212), (192, 20224), (196, 20242), (204, 20281), (212, 20311), (235, 20398), (250, 20458), (253, 20464), (293, 20605), (295, 20611), (298, 20620), (303, 20638), (318, 20698), (325, 20719), (343, 20770), (345, 20773), (360, 20842), (407, 20995), (438, 21079), (444, 21097), (447, 21106), (485, 21217), (496, 21235), (514, 21289), (538, 21334), (544, 21349), (559, 21397), (589, 21487), (596, 21505), (622, 21556), (630, 21589), (635, 21607), (648, 21646), (661, 21682), (675, 21727), (682, 21751), (689, 21772), (694, 21790), (709, 21823), (711, 21826), (728, 21877), (747, 21943), (760, 21967), (797, 22042), (812, 22078), (835, 22147),

Gene: ElvisPhasley_31 Start: 28797, Stop: 31055, Start Num: 37

Candidate Starts for ElvisPhasley_31:
(Start: 37 @28797 has 342 MA's), (74, 28893), (98, 28971), (104, 28998), (143, 29100), (192, 29259), (237, 29439), (244, 29463), (246, 29475), (271, 29559), (283, 29595), (295, 29634), (298, 29643), (306, 29676), (316, 29715), (334, 29760), (351, 29811), (361, 29862), (363, 29871), (380, 29940), (410, 30015), (426, 30060), (429, 30075), (469, 30210), (492, 30264), (499, 30285), (509, 30318), (530, 30363), (551, 30417), (563, 30444), (583, 30501), (590, 30522), (614, 30564), (625, 30603), (642, 30663), (728, 30903), (737, 30939), (751, 30972), (789, 31041),

Gene: EmGer13_30 Start: 28317, Stop: 30575, Start Num: 37
Candidate Starts for EmGer13_30:
(Start: 37 @28317 has 342 MA's), (74, 28413), (98, 28491), (104, 28518), (143, 28620), (192, 28779), (237, 28959), (244, 28983), (271, 29079), (283, 29115), (295, 29154), (298, 29163), (306, 29196), (316, 29235), (334, 29280), (351, 29331), (361, 29382), (363, 29391), (380, 29460), (410, 29535), (426, 29580), (429, 29595), (469, 29730), (492, 29784), (499, 29805), (509, 29838), (530, 29883), (551, 29937), (563, 29964), (583, 30021), (590, 30042), (614, 30084), (625, 30123), (642, 30183), (728, 30423), (737, 30459), (751, 30492), (789, 30561),

Gene: Emiris_31 Start: 28749, Stop: 31004, Start Num: 37
Candidate Starts for Emiris_31:
(Start: 37 @28749 has 342 MA's), (74, 28845), (98, 28923), (104, 28950), (143, 29049), (192, 29208), (237, 29388), (244, 29412), (269, 29502), (271, 29508), (283, 29544), (295, 29583), (298, 29592), (306, 29625), (316, 29664), (334, 29709), (351, 29760), (361, 29811), (363, 29820), (380, 29889), (410, 29964), (426, 30009), (429, 30024), (469, 30159), (492, 30213), (499, 30234), (509, 30267), (530, 30312), (551, 30366), (563, 30393), (583, 30450), (590, 30471), (614, 30513), (625, 30552), (642, 30612), (728, 30852), (737, 30888), (751, 30921), (789, 30990),

Gene: EmpTee_31 Start: 28759, Stop: 31014, Start Num: 37
Candidate Starts for EmpTee_31:
(Start: 37 @28759 has 342 MA's), (74, 28855), (98, 28933), (104, 28960), (143, 29059), (192, 29218), (237, 29398), (244, 29422), (269, 29512), (271, 29518), (283, 29554), (295, 29593), (298, 29602), (306, 29635), (316, 29674), (334, 29719), (351, 29770), (361, 29821), (363, 29830), (380, 29899), (410, 29974), (426, 30019), (429, 30034), (469, 30169), (492, 30223), (499, 30244), (509, 30277), (530, 30322), (551, 30376), (583, 30460), (590, 30481), (614, 30523), (625, 30562), (642, 30622), (728, 30862), (736, 30895), (737, 30898), (751, 30931), (789, 31000),

Gene: Enkosi_23 Start: 20414, Stop: 22900, Start Num: 24
Candidate Starts for Enkosi_23:
(Start: 24 @20414 has 60 MA's), (44, 20462), (142, 20642), (143, 20645), (164, 20708), (169, 20720), (204, 20852), (214, 20891), (229, 20948), (235, 20972), (238, 20984), (252, 21032), (254, 21035), (267, 21068), (277, 21107), (288, 21140), (291, 21152), (294, 21161), (296, 21167), (311, 21233), (317, 21248), (352, 21359), (357, 21392), (377, 21476), (385, 21491), (406, 21551), (430, 21620), (462, 21740), (496, 21833), (541, 21947), (565, 22025), (568, 22031), (574, 22055), (594, 22118), (596, 22121), (603, 22133), (625, 22199), (627, 22205), (639, 22247), (644, 22268), (645, 22277), (657, 22310), (663, 22328), (685, 22397), (721, 22496), (722, 22502), (728, 22520), (742, 22574), (747, 22589), (766, 22616), (793, 22673),

Gene: Ennea_49 Start: 34236, Stop: 36794, Start Num: 78
Candidate Starts for Ennea_49:
(12, 34038), (60, 34185), (Start: 78 @34236 has 15 MA's), (120, 34365), (164, 34485), (223, 34704), (224, 34707), (258, 34836), (296, 34944), (306, 34983), (420, 35355), (443, 35439), (574, 35817), (614, 35922), (620, 35940), (628, 35973), (634, 35994), (650, 36048), (686, 36153), (696, 36186), (724, 36276), (754, 36372), (756, 36375), (787, 36438), (803, 36471), (806, 36489), (808, 36492), (822, 36528), (830, 36552), (835, 36573), (853, 36663), (856, 36675),

Gene: Epah_27 Start: 27941, Stop: 30238, Start Num: 37
Candidate Starts for Epah_27:
(Start: 37 @27941 has 342 MA's), (74, 28040), (104, 28145), (118, 28181), (143, 28244), (167, 28325), (189, 28391), (192, 28403), (218, 28508), (228, 28547), (241, 28598), (244, 28607), (265, 28688), (266, 28691), (283, 28754), (296, 28796), (300, 28808), (335, 28931), (346, 28955), (360, 29018), (367, 29048), (368, 29057), (392, 29129), (399, 29150), (410, 29186), (417, 29207), (436, 29273), (440, 29285), (453, 29336), (457, 29339), (460, 29357), (468, 29381), (476, 29408), (492, 29441), (499, 29462), (509, 29495), (530, 29540), (585, 29681), (586, 29684), (590, 29696), (626, 29780), (672, 29915), (682, 29939), (703, 30002), (710, 30032), (713, 30038), (728, 30086), (736, 30119), (737, 30122), (789, 30224), (790, 30227),

Gene: Eremos_31 Start: 28758, Stop: 31013, Start Num: 37
Candidate Starts for Eremos_31:
(Start: 37 @28758 has 342 MA's), (74, 28854), (98, 28932), (104, 28959), (143, 29058), (192, 29217), (237, 29397), (244, 29421), (269, 29511), (271, 29517), (283, 29553), (295, 29592), (306, 29634), (316, 29673), (334, 29718), (351, 29769), (361, 29820), (363, 29829), (380, 29898), (410, 29973), (426, 30018), (429, 30033), (469, 30168), (492, 30222), (499, 30243), (509, 30276), (530, 30321), (551, 30375), (583, 30459), (590, 30480), (614, 30522), (625, 30561), (642, 30621), (728, 30861), (736, 30894), (737, 30897), (751, 30930), (756, 30936), (789, 30999),

Gene: Erutan_30 Start: 26244, Stop: 28223, Start Num: 5
Candidate Starts for Erutan_30:
(Start: 5 @26244 has 38 MA's), (29, 26358), (34, 26367), (39, 26376), (41, 26379), (45, 26388), (73, 26457), (94, 26520), (96, 26523), (113, 26562), (119, 26583), (136, 26637), (192, 26814), (209, 26889), (244, 27021), (251, 27048), (252, 27051), (254, 27054), (283, 27141), (298, 27189), (300, 27195), (306, 27222), (331, 27300), (344, 27351), (380, 27510), (394, 27543), (425, 27645), (433, 27681), (536, 27987), (551, 28032), (553, 28038), (578, 28098),

Gene: Etaye_31 Start: 28748, Stop: 31003, Start Num: 37
Candidate Starts for Etaye_31:
(Start: 37 @28748 has 342 MA's), (74, 28844), (98, 28922), (104, 28949), (143, 29048), (192, 29207), (237, 29387), (244, 29411), (271, 29507), (283, 29543), (295, 29582), (298, 29591), (306, 29624), (316, 29663), (334, 29708), (351, 29759), (361, 29810), (363, 29819), (380, 29888), (410, 29963), (426, 30008), (429, 30023), (469, 30158), (492, 30212), (499, 30233), (509, 30266), (530, 30311), (551, 30365), (563, 30392), (583, 30449), (590, 30470), (614, 30512), (625, 30551), (642, 30611), (728, 30851), (737, 30887), (751, 30920), (789, 30989),

Gene: Eugenia_31 Start: 28768, Stop: 31023, Start Num: 37
Candidate Starts for Eugenia_31:
(Start: 37 @28768 has 342 MA's), (74, 28864), (98, 28942), (104, 28969), (143, 29068), (192, 29227), (237, 29407), (244, 29431), (269, 29521), (271, 29527), (283, 29563), (295, 29602), (298, 29611), (306, 29644), (316, 29683), (334, 29728), (351, 29779), (361, 29830), (363, 29839), (380, 29908), (410, 29983), (426, 30028), (429, 30043), (469, 30178), (492, 30232), (499, 30253), (509, 30286), (530, 30331), (551, 30385), (563, 30412), (583, 30469), (590, 30490), (614, 30532), (625, 30571), (642, 30631), (728, 30871), (737, 30907), (751, 30940), (789, 31009),

Gene: EvilGenius_33 Start: 23186, Stop: 25663, Start Num: 21
Candidate Starts for EvilGenius_33:
(Start: 21 @23186 has 3 MA's), (25, 23207), (Start: 61 @23297 has 1 MA's), (93, 23396), (108, 23444), (117, 23465), (151, 23576), (226, 23822), (233, 23849), (237, 23864), (256, 23939), (296, 24080), (313, 24152), (350, 24254), (424, 24464), (444, 24527), (480, 24638), (483, 24641), (506, 24698), (538, 24764), (539, 24767), (544, 24779), (553, 24821), (568, 24863), (587, 24920), (630, 25025),

(636, 25046), (649, 25085), (703, 25235), (706, 25241), (723, 25295), (727, 25307), (729, 25316), (733, 25337), (764, 25406), (810, 25505), (820, 25532), (821, 25535), (836, 25589), (847, 25616),

Gene: FF47_24 Start: 19326, Stop: 21644, Start Num: 38
Candidate Starts for FF47_24:
(Start: 38 @19326 has 2 MA's), (106, 19527), (128, 19572), (131, 19584), (168, 19695), (192, 19761), (229, 19902), (262, 20034), (276, 20073), (280, 20085), (291, 20124), (297, 20142), (306, 20178), (324, 20238), (351, 20313), (356, 20340), (371, 20403), (395, 20460), (482, 20655), (514, 20724), (527, 20742), (529, 20748), (530, 20751), (531, 20754), (572, 20871), (575, 20877), (612, 20955), (629, 21003), (630, 21006), (655, 21084), (670, 21135), (677, 21150), (681, 21162), (706, 21225), (712, 21246), (720, 21267), (735, 21324), (742, 21345), (760, 21384), (782, 21426), (797, 21459), (801, 21465), (804, 21480), (835, 21564),

Gene: Faiyaz_27 Start: 23429, Stop: 26023, Start Num: 31
Candidate Starts for Faiyaz_27:
(Start: 31 @23429 has 6 MA's), (48, 23468), (75, 23543), (105, 23645), (109, 23654), (133, 23732), (157, 23813), (160, 23822), (176, 23867), (180, 23870), (183, 23879), (186, 23891), (187, 23894), (193, 23918), (200, 23945), (202, 23954), (215, 24017), (233, 24083), (242, 24119), (243, 24122), (265, 24194), (267, 24200), (288, 24269), (307, 24353), (335, 24434), (340, 24455), (382, 24629), (392, 24656), (406, 24707), (424, 24752), (440, 24803), (444, 24812), (459, 24890), (504, 25013), (505, 25016), (507, 25019), (548, 25130), (568, 25193), (584, 25241), (621, 25328), (627, 25355), (630, 25364), (633, 25370), (645, 25421), (685, 25538), (686, 25541), (718, 25625), (728, 25661), (735, 25691), (743, 25715), (768, 25766), (772, 25772), (776, 25778), (823, 25880), (834, 25916), (855, 26006), (859, 26015),

Gene: Fanaw_27 Start: 28636, Stop: 30933, Start Num: 37
Candidate Starts for Fanaw_27:
(Start: 1 @27949 has 1 MA's), (2, 28096), (Start: 37 @28636 has 342 MA's), (74, 28735), (79, 28753), (143, 28939), (167, 29020), (189, 29086), (218, 29203), (228, 29242), (241, 29293), (265, 29383), (266, 29386), (283, 29449), (294, 29485), (296, 29491), (300, 29503), (335, 29626), (346, 29650), (360, 29713), (368, 29752), (392, 29824), (399, 29845), (410, 29881), (417, 29902), (436, 29968), (440, 29980), (453, 30031), (457, 30034), (460, 30052), (468, 30076), (476, 30103), (492, 30136), (499, 30157), (509, 30190), (530, 30235), (585, 30376), (586, 30379), (590, 30391), (626, 30475), (664, 30589), (672, 30610), (682, 30634), (703, 30697), (710, 30727), (713, 30733), (728, 30781), (736, 30814), (737, 30817), (789, 30919), (790, 30922),

Gene: Fang_31 Start: 28772, Stop: 31027, Start Num: 37
Candidate Starts for Fang_31:
(Start: 37 @28772 has 342 MA's), (74, 28868), (98, 28946), (104, 28973), (143, 29072), (192, 29231), (237, 29411), (244, 29435), (269, 29525), (271, 29531), (283, 29567), (295, 29606), (298, 29615), (306, 29648), (316, 29687), (334, 29732), (351, 29783), (361, 29834), (363, 29843), (380, 29912), (410, 29987), (426, 30032), (429, 30047), (469, 30182), (492, 30236), (499, 30257), (509, 30290), (530, 30335), (551, 30389), (563, 30416), (583, 30473), (590, 30494), (614, 30536), (625, 30575), (642, 30635), (728, 30875), (737, 30911), (751, 30944), (789, 31013),

Gene: Fefferhead_26 Start: 21226, Stop: 23613, Start Num: 24
Candidate Starts for Fefferhead_26:
(Start: 24 @21226 has 60 MA's), (Start: 37 @21256 has 342 MA's), (44, 21274), (76, 21358), (169, 21532), (204, 21664), (228, 21754), (238, 21796), (254, 21847), (271, 21889), (272, 21892), (288, 21949), (294, 21973), (296, 21979), (306, 22018), (323, 22075), (352, 22171), (377, 22288), (408, 22357), (424, 22396), (426, 22405), (431, 22426), (447, 22468), (480, 22570), (542, 22705), (543, 22708), (544, 22711), (557, 22750), (574, 22804), (635, 22978), (670, 23095), (674, 23101), (711, 23203), (743, 23308), (744, 23314), (769, 23362), (812, 23455), (823, 23479), (833, 23509), (857,

23587),

Gene: FelixAlejandro_31 Start: 35261, Stop: 37258, Start Num: 6
Candidate Starts for FelixAlejandro_31:
(Start: 6 @35261 has 35 MA's), (Start: 20 @35336 has 4 MA's), (32, 35375), (45, 35405), (54, 35432), (56, 35435), (181, 35819), (229, 36011), (252, 36095), (269, 36146), (288, 36200), (306, 36266), (308, 36284), (380, 36554), (394, 36587), (415, 36653), (425, 36689), (433, 36725), (457, 36815), (464, 36845), (497, 36908), (547, 37049), (551, 37067), (553, 37073), (578, 37133), (601, 37190),

Gene: Findley_23 Start: 18661, Stop: 21000, Start Num: 24
Candidate Starts for Findley_23:
(Start: 24 @18661 has 60 MA's), (89, 18832), (93, 18850), (142, 18901), (185, 19018), (193, 19051), (227, 19180), (229, 19189), (233, 19204), (236, 19216), (238, 19225), (252, 19273), (282, 19369), (288, 19387), (294, 19408), (306, 19453), (344, 19555), (364, 19627), (373, 19669), (374, 19675), (377, 19684), (406, 19771), (416, 19792), (428, 19834), (436, 19855), (476, 19972), (478, 19981), (497, 20017), (518, 20071), (544, 20125), (548, 20137), (554, 20161), (589, 20257), (596, 20275), (613, 20302), (630, 20359), (645, 20416), (692, 20548), (706, 20578), (722, 20629), (728, 20647), (735, 20677), (757, 20731), (774, 20761), (783, 20782), (839, 20914),

Gene: Finnry_21 Start: 19728, Stop: 22241, Start Num: 18
Candidate Starts for Finnry_21:
(Start: 18 @19728 has 19 MA's), (41, 19791), (68, 19863), (98, 19953), (101, 19959), (127, 20031), (189, 20223), (192, 20235), (196, 20253), (204, 20292), (212, 20322), (228, 20379), (235, 20409), (237, 20415), (250, 20469), (253, 20475), (294, 20622), (295, 20625), (298, 20634), (303, 20652), (318, 20712), (321, 20721), (325, 20733), (343, 20784), (345, 20787), (386, 20952), (407, 21009), (438, 21093), (444, 21111), (447, 21120), (468, 21183), (514, 21303), (538, 21348), (544, 21363), (550, 21381), (559, 21411), (589, 21501), (622, 21570), (630, 21603), (636, 21624), (648, 21660), (661, 21696), (675, 21741), (682, 21765), (685, 21771), (689, 21786), (694, 21804), (709, 21837), (728, 21891), (733, 21915), (744, 21951), (747, 21957), (760, 21981), (832, 22146), (834, 22155), (835, 22161),

Gene: Fionnbharth_28 Start: 22273, Stop: 24582, Start Num: 66
Candidate Starts for Fionnbharth_28:
(Start: 66 @22273 has 18 MA's), (102, 22363), (106, 22384), (143, 22408), (185, 22525), (214, 22654), (230, 22714), (248, 22786), (252, 22795), (269, 22846), (271, 22852), (274, 22861), (288, 22912), (291, 22924), (296, 22939), (298, 22945), (306, 22978), (319, 23026), (344, 23080), (364, 23152), (372, 23191), (375, 23203), (382, 23218), (400, 23263), (421, 23332), (449, 23413), (502, 23566), (521, 23608), (560, 23737), (574, 23782), (596, 23848), (607, 23863), (636, 23959), (685, 24112), (689, 24127), (692, 24133), (698, 24157), (701, 24163), (703, 24169), (704, 24172), (712, 24196), (718, 24208), (744, 24304), (772, 24355), (774, 24358), (805, 24427), (824, 24463), (834, 24496), (851, 24550), (854, 24559), (859, 24574),

Gene: Flake_31 Start: 28808, Stop: 31069, Start Num: 37
Candidate Starts for Flake_31:
(Start: 37 @28808 has 342 MA's), (74, 28904), (98, 28982), (104, 29009), (133, 29084), (143, 29114), (192, 29273), (237, 29453), (244, 29477), (271, 29573), (283, 29609), (295, 29648), (298, 29657), (306, 29690), (316, 29729), (334, 29774), (351, 29825), (363, 29885), (380, 29954), (410, 30029), (426, 30074), (429, 30089), (469, 30224), (492, 30278), (499, 30299), (509, 30332), (530, 30377), (551, 30431), (563, 30458), (583, 30515), (590, 30536), (614, 30578), (625, 30617), (642, 30677), (728, 30917), (737, 30953), (751, 30986), (789, 31055),

Gene: Flapper_47 Start: 33951, Stop: 36509, Start Num: 78
Candidate Starts for Flapper_47:

(Start: 78 @33951 has 15 MA's), (223, 34419), (224, 34422), (238, 34479), (287, 34632), (294, 34653), (306, 34698), (413, 35049), (443, 35154), (574, 35532), (614, 35637), (620, 35655), (628, 35688), (634, 35709), (650, 35763), (686, 35868), (696, 35901), (724, 35991), (740, 36045), (741, 36048), (754, 36087), (756, 36090), (787, 36153), (803, 36186), (806, 36204), (808, 36207), (822, 36243), (823, 36246), (835, 36288), (853, 36378), (856, 36390), (863, 36480),

Gene: FleetyMac_31 Start: 28764, Stop: 31022, Start Num: 37
Candidate Starts for FleetyMac_31:
(Start: 37 @28764 has 342 MA's), (74, 28860), (98, 28938), (104, 28965), (143, 29067), (192, 29226), (237, 29406), (244, 29430), (246, 29442), (271, 29526), (283, 29562), (295, 29601), (298, 29610), (306, 29643), (316, 29682), (334, 29727), (351, 29778), (361, 29829), (363, 29838), (380, 29907), (410, 29982), (426, 30027), (429, 30042), (469, 30177), (492, 30231), (499, 30252), (509, 30285), (530, 30330), (551, 30384), (563, 30411), (583, 30468), (590, 30489), (614, 30531), (625, 30570), (642, 30630), (728, 30870), (737, 30906), (751, 30939), (789, 31008),

Gene: Float294_45 Start: 33678, Stop: 36236, Start Num: 78
Candidate Starts for Float294_45:
(12, 33480), (60, 33627), (Start: 78 @33678 has 15 MA's), (120, 33807), (164, 33927), (223, 34146), (224, 34149), (243, 34221), (258, 34278), (264, 34299), (296, 34386), (306, 34425), (420, 34797), (443, 34881), (574, 35259), (614, 35364), (620, 35382), (628, 35415), (634, 35436), (650, 35490), (693, 35622), (696, 35628), (724, 35718), (754, 35814), (756, 35817), (787, 35880), (803, 35913), (806, 35931), (808, 35934), (822, 35970), (830, 35994), (835, 36015), (853, 36105), (856, 36117),

Gene: FluffyNinja_31 Start: 28765, Stop: 31020, Start Num: 37
Candidate Starts for FluffyNinja_31:
(Start: 37 @28765 has 342 MA's), (74, 28861), (98, 28939), (104, 28966), (143, 29065), (192, 29224), (237, 29404), (244, 29428), (269, 29518), (271, 29524), (283, 29560), (295, 29599), (298, 29608), (306, 29641), (316, 29680), (334, 29725), (351, 29776), (361, 29827), (363, 29836), (380, 29905), (410, 29980), (426, 30025), (429, 30040), (469, 30175), (492, 30229), (499, 30250), (509, 30283), (530, 30328), (551, 30382), (583, 30466), (590, 30487), (614, 30529), (625, 30568), (642, 30628), (728, 30868), (736, 30901), (737, 30904), (751, 30937), (756, 30943), (789, 31006),

Gene: Fortunato_28 Start: 28277, Stop: 31261, Start Num: 1
Candidate Starts for Fortunato_28:
(Start: 1 @28277 has 1 MA's), (2, 28424), (Start: 37 @28964 has 342 MA's), (74, 29063), (79, 29081), (104, 29168), (118, 29204), (143, 29267), (167, 29348), (189, 29414), (218, 29531), (228, 29570), (241, 29621), (244, 29630), (258, 29687), (265, 29711), (266, 29714), (283, 29777), (296, 29819), (300, 29831), (335, 29954), (346, 29978), (360, 30041), (392, 30152), (399, 30173), (410, 30209), (417, 30230), (436, 30296), (440, 30308), (453, 30359), (457, 30362), (460, 30380), (468, 30404), (476, 30431), (492, 30464), (499, 30485), (509, 30518), (530, 30563), (585, 30704), (586, 30707), (590, 30719), (626, 30803), (664, 30917), (672, 30938), (682, 30962), (703, 31025), (710, 31055), (713, 31061), (728, 31109), (736, 31142), (737, 31145), (789, 31247), (790, 31250),

Gene: Fozzie_30 Start: 28774, Stop: 31035, Start Num: 37
Candidate Starts for Fozzie_30:
(Start: 37 @28774 has 342 MA's), (74, 28870), (98, 28948), (104, 28975), (133, 29050), (143, 29080), (192, 29239), (237, 29419), (244, 29443), (271, 29539), (283, 29575), (295, 29614), (298, 29623), (306, 29656), (316, 29695), (334, 29740), (351, 29791), (363, 29851), (380, 29920), (410, 29995), (426, 30040), (429, 30055), (469, 30190), (492, 30244), (499, 30265), (509, 30298), (530, 30343), (551, 30397), (563, 30424), (583, 30481), (590, 30502), (614, 30544), (625, 30583), (642, 30643), (728, 30883), (737, 30919), (751, 30952), (789, 31021),

Gene: Francois_25 Start: 20630, Stop: 23140, Start Num: 19

Candidate Starts for Francois_25:
(Start: 19 @20630 has 14 MA's), (74, 20762), (77, 20777), (92, 20822), (102, 20840), (165, 21005), (184, 21059), (186, 21068), (193, 21095), (203, 21146), (204, 21152), (247, 21317), (249, 21323), (254, 21332), (266, 21371), (288, 21443), (291, 21455), (294, 21464), (296, 21470), (303, 21494), (306, 21509), (308, 21527), (309, 21530), (323, 21566), (338, 21620), (359, 21698), (369, 21743), (384, 21797), (387, 21806), (391, 21818), (396, 21827), (441, 21989), (453, 22037), (454, 22049), (466, 22094), (500, 22181), (513, 22220), (541, 22289), (545, 22301), (637, 22559), (649, 22601), (659, 22631), (683, 22712), (690, 22733), (697, 22760), (705, 22784), (752, 22949), (771, 22994), (811, 23093), (826, 23132),

Gene: Frankicide_31 Start: 28777, Stop: 31032, Start Num: 37
Candidate Starts for Frankicide_31:
(Start: 37 @28777 has 342 MA's), (74, 28873), (98, 28951), (104, 28978), (143, 29077), (192, 29236), (237, 29416), (244, 29440), (271, 29536), (283, 29572), (295, 29611), (298, 29620), (306, 29653), (316, 29692), (334, 29737), (351, 29788), (361, 29839), (363, 29848), (380, 29917), (410, 29992), (426, 30037), (429, 30052), (469, 30187), (492, 30241), (499, 30262), (509, 30295), (530, 30340), (551, 30394), (563, 30421), (583, 30478), (590, 30499), (614, 30541), (625, 30580), (642, 30640), (728, 30880), (736, 30913), (737, 30916), (751, 30949), (756, 30955), (789, 31018),

Gene: Frederick_28 Start: 28973, Stop: 31270, Start Num: 37
Candidate Starts for Frederick_28:
(Start: 37 @28973 has 342 MA's), (74, 29072), (79, 29090), (118, 29213), (143, 29276), (167, 29357), (189, 29423), (218, 29540), (228, 29579), (241, 29630), (244, 29639), (258, 29696), (265, 29720), (266, 29723), (283, 29786), (296, 29828), (300, 29840), (334, 29951), (346, 29987), (360, 30050), (392, 30161), (399, 30182), (410, 30218), (417, 30239), (436, 30305), (440, 30317), (453, 30368), (457, 30371), (460, 30389), (468, 30413), (476, 30440), (492, 30473), (499, 30494), (509, 30527), (530, 30572), (585, 30713), (586, 30716), (588, 30719), (590, 30728), (626, 30812), (664, 30926), (672, 30947), (682, 30971), (703, 31034), (710, 31064), (713, 31070), (728, 31118), (736, 31151), (737, 31154), (789, 31256), (790, 31259),

Gene: FremontTroll_30 Start: 28462, Stop: 30717, Start Num: 37
Candidate Starts for FremontTroll_30:
(Start: 37 @28462 has 342 MA's), (74, 28558), (98, 28636), (104, 28663), (143, 28762), (192, 28921), (237, 29101), (244, 29125), (269, 29215), (271, 29221), (283, 29257), (295, 29296), (298, 29305), (306, 29338), (316, 29377), (334, 29422), (351, 29473), (361, 29524), (363, 29533), (380, 29602), (410, 29677), (426, 29722), (429, 29737), (469, 29872), (492, 29926), (499, 29947), (509, 29980), (530, 30025), (551, 30079), (563, 30106), (583, 30163), (590, 30184), (614, 30226), (625, 30265), (642, 30325), (728, 30565), (736, 30598), (737, 30601), (751, 30634), (756, 30640), (789, 30703),

Gene: Freya_30 Start: 28456, Stop: 30711, Start Num: 37
Candidate Starts for Freya_30:
(Start: 37 @28456 has 342 MA's), (74, 28552), (98, 28630), (104, 28657), (143, 28756), (192, 28915), (237, 29095), (244, 29119), (269, 29209), (271, 29215), (283, 29251), (295, 29290), (298, 29299), (306, 29332), (316, 29371), (334, 29416), (351, 29467), (361, 29518), (363, 29527), (380, 29596), (426, 29716), (429, 29731), (469, 29866), (492, 29920), (499, 29941), (509, 29974), (530, 30019), (551, 30073), (563, 30100), (583, 30157), (590, 30178), (614, 30220), (625, 30259), (642, 30319), (728, 30559), (736, 30592), (737, 30595), (751, 30628), (756, 30634), (789, 30697),

Gene: FriarPreacher_31 Start: 28783, Stop: 31038, Start Num: 37
Candidate Starts for FriarPreacher_31:
(Start: 37 @28783 has 342 MA's), (74, 28879), (98, 28957), (104, 28984), (143, 29083), (192, 29242), (237, 29422), (244, 29446), (269, 29536), (271, 29542), (283, 29578), (295, 29617), (298, 29626), (306, 29659), (316, 29698), (334, 29743), (351, 29794), (361, 29845), (363, 29854), (380, 29923),

(410, 29998), (426, 30043), (429, 30058), (469, 30193), (492, 30247), (499, 30268), (509, 30301), (530, 30346), (551, 30400), (563, 30427), (583, 30484), (590, 30505), (614, 30547), (625, 30586), (642, 30646), (728, 30886), (736, 30919), (737, 30922), (751, 30955), (756, 30961), (789, 31024),

Gene: Fringe_31 Start: 28747, Stop: 31002, Start Num: 37
Candidate Starts for Fringe_31:
(Start: 37 @28747 has 342 MA's), (74, 28843), (98, 28921), (104, 28948), (143, 29047), (192, 29206), (237, 29386), (244, 29410), (269, 29500), (271, 29506), (283, 29542), (295, 29581), (298, 29590), (306, 29623), (316, 29662), (334, 29707), (351, 29758), (361, 29809), (363, 29818), (380, 29887), (410, 29962), (426, 30007), (429, 30022), (469, 30157), (492, 30211), (499, 30232), (509, 30265), (530, 30310), (551, 30364), (563, 30391), (583, 30448), (590, 30469), (614, 30511), (625, 30550), (642, 30610), (728, 30850), (736, 30883), (737, 30886), (751, 30919), (756, 30925), (789, 30988),

Gene: FugateOSU_30 Start: 28461, Stop: 30716, Start Num: 37
Candidate Starts for FugateOSU_30:
(Start: 37 @28461 has 342 MA's), (74, 28557), (98, 28635), (104, 28662), (143, 28761), (192, 28920), (237, 29100), (244, 29124), (269, 29214), (271, 29220), (283, 29256), (295, 29295), (298, 29304), (306, 29337), (316, 29376), (334, 29421), (351, 29472), (361, 29523), (363, 29532), (380, 29601), (410, 29676), (426, 29721), (429, 29736), (469, 29871), (492, 29925), (499, 29946), (509, 29979), (530, 30024), (551, 30078), (563, 30105), (583, 30162), (590, 30183), (614, 30225), (625, 30264), (642, 30324), (728, 30564), (736, 30597), (737, 30600), (751, 30633), (756, 30639), (789, 30702),

Gene: Fulbright_20 Start: 17553, Stop: 20198, Start Num: 9
Candidate Starts for Fulbright_20:
(7, 17541), (Start: 9 @17553 has 17 MA's), (13, 17565), (15, 17577), (Start: 31 @17631 has 6 MA's), (Start: 61 @17700 has 1 MA's), (62, 17703), (65, 17712), (72, 17727), (129, 17904), (157, 17985), (160, 17994), (216, 18198), (229, 18246), (233, 18261), (238, 18282), (243, 18300), (247, 18324), (254, 18339), (255, 18348), (265, 18375), (267, 18381), (288, 18450), (294, 18471), (296, 18477), (299, 18486), (305, 18513), (307, 18531), (337, 18624), (345, 18645), (368, 18756), (372, 18774), (382, 18807), (406, 18885), (444, 18990), (453, 19032), (528, 19251), (542, 19290), (543, 19293), (548, 19308), (568, 19371), (584, 19419), (627, 19533), (636, 19563), (644, 19590), (645, 19599), (685, 19716), (700, 19761), (718, 19803), (735, 19869), (743, 19893), (768, 19941), (772, 19947), (776, 19953), (782, 19968), (822, 20052), (834, 20091), (855, 20181), (859, 20190),

Gene: Fulcrum_31 Start: 26768, Stop: 28750, Start Num: 5
Candidate Starts for Fulcrum_31:
(Start: 5 @26768 has 38 MA's), (29, 26882), (34, 26891), (39, 26900), (41, 26903), (45, 26912), (73, 26981), (91, 27038), (192, 27344), (209, 27419), (244, 27551), (251, 27578), (252, 27581), (254, 27584), (283, 27671), (298, 27719), (300, 27725), (306, 27752), (331, 27830), (344, 27881), (380, 28040), (394, 28073), (425, 28175), (433, 28211), (536, 28517), (551, 28562), (553, 28568), (578, 28628), (611, 28703), (617, 28724),

Gene: GOATification_31 Start: 26768, Stop: 28750, Start Num: 5
Candidate Starts for GOATification_31:
(Start: 5 @26768 has 38 MA's), (29, 26882), (34, 26891), (39, 26900), (41, 26903), (45, 26912), (73, 26981), (91, 27038), (192, 27344), (209, 27419), (244, 27551), (251, 27578), (252, 27581), (254, 27584), (283, 27671), (298, 27719), (300, 27725), (306, 27752), (331, 27830), (344, 27881), (380, 28040), (394, 28073), (425, 28175), (433, 28211), (536, 28517), (551, 28562), (553, 28568), (578, 28628), (611, 28703), (617, 28724),

Gene: GTE5_34 Start: 26806, Stop: 29361, Start Num: 78
Candidate Starts for GTE5_34:

(46, 26713), (53, 26734), (Start: 78 @26806 has 15 MA's), (199, 27175), (223, 27274), (224, 27277), (235, 27322), (238, 27334), (294, 27508), (306, 27553), (420, 27925), (443, 28009), (574, 28387), (620, 28510), (634, 28564), (638, 28579), (651, 28621), (665, 28666), (685, 28720), (686, 28723), (701, 28771), (725, 28849), (754, 28942), (756, 28945), (786, 29005), (787, 29008), (803, 29041), (810, 29065), (818, 29086), (819, 29089), (835, 29143), (856, 29245), (863, 29335),

Gene: Gadjet_32 Start: 28620, Stop: 30848, Start Num: 28
Candidate Starts for Gadjet_32:
(Start: 28 @28620 has 52 MA's), (Start: 40 @28635 has 1 MA's), (59, 28680), (79, 28737), (105, 28815), (135, 28884), (143, 28896), (158, 28938), (169, 28974), (179, 29001), (183, 29013), (190, 29040), (211, 29130), (229, 29202), (252, 29286), (286, 29394), (291, 29415), (316, 29508), (323, 29523), (360, 29652), (380, 29733), (410, 29808), (425, 29850), (426, 29856), (436, 29892), (469, 30006), (473, 30018), (492, 30060), (499, 30081), (521, 30135), (530, 30159), (583, 30294), (586, 30303), (614, 30357), (645, 30465), (656, 30492), (672, 30534), (701, 30606), (728, 30696), (737, 30732),

Gene: Gail_31 Start: 22024, Stop: 24468, Start Num: 20
Candidate Starts for Gail_31:
(Start: 20 @22024 has 4 MA's), (99, 22237), (124, 22294), (134, 22315), (239, 22669), (259, 22747), (295, 22870), (296, 22873), (310, 22930), (313, 22936), (320, 22954), (329, 22981), (349, 23035), (350, 23038), (424, 23272), (432, 23302), (435, 23311), (478, 23443), (506, 23506), (519, 23533), (538, 23572), (568, 23674), (596, 23752), (619, 23791), (630, 23836), (635, 23854), (649, 23896), (669, 23962), (676, 23977), (689, 24016), (692, 24022), (749, 24193), (764, 24214), (777, 24241), (827, 24358), (835, 24388),

Gene: GalacticEye_27 Start: 35289, Stop: 37313, Start Num: 6
Candidate Starts for GalacticEye_27:
(Start: 6 @35289 has 35 MA's), (14, 35337), (23, 35373), (26, 35391), (30, 35400), (44, 35430), (45, 35433), (84, 35544), (122, 35664), (257, 36141), (261, 36150), (294, 36249), (306, 36294), (327, 36360), (353, 36447), (380, 36582), (394, 36615), (433, 36756), (479, 36927), (506, 36993), (509, 37005), (541, 37086), (551, 37122), (553, 37128), (566, 37155), (578, 37188),

Gene: Gareth_30 Start: 28463, Stop: 30718, Start Num: 37
Candidate Starts for Gareth_30:
(Start: 37 @28463 has 342 MA's), (74, 28559), (98, 28637), (104, 28664), (143, 28763), (192, 28922), (237, 29102), (244, 29126), (269, 29216), (271, 29222), (283, 29258), (295, 29297), (298, 29306), (306, 29339), (316, 29378), (334, 29423), (351, 29474), (361, 29525), (363, 29534), (380, 29603), (410, 29678), (426, 29723), (429, 29738), (469, 29873), (492, 29927), (499, 29948), (509, 29981), (530, 30026), (551, 30080), (563, 30107), (583, 30164), (590, 30185), (614, 30227), (625, 30266), (642, 30326), (728, 30566), (736, 30599), (737, 30602), (751, 30635), (756, 30641), (789, 30704),

Gene: Gavriela_21 Start: 18926, Stop: 21559, Start Num: 9
Candidate Starts for Gavriela_21:
(Start: 9 @18926 has 17 MA's), (11, 18935), (62, 19079), (157, 19352), (161, 19364), (170, 19385), (180, 19409), (200, 19484), (215, 19556), (224, 19586), (233, 19622), (247, 19685), (254, 19700), (262, 19727), (265, 19733), (288, 19808), (294, 19832), (296, 19838), (300, 19850), (307, 19892), (309, 19898), (337, 19985), (345, 20006), (352, 20030), (365, 20096), (368, 20117), (372, 20135), (382, 20168), (390, 20192), (392, 20195), (406, 20246), (444, 20351), (453, 20393), (507, 20558), (543, 20654), (568, 20732), (573, 20744), (610, 20834), (627, 20894), (630, 20903), (644, 20951), (645, 20960), (685, 21077), (700, 21122), (718, 21164), (735, 21230), (743, 21254), (768, 21302), (772, 21308), (776, 21314), (822, 21413), (825, 21422), (834, 21452), (855, 21542), (859, 21551),

Gene: Genamy16_30 Start: 24757, Stop: 26757, Start Num: 5

Candidate Starts for Genamy16_30:
(Start: 5 @24757 has 38 MA's), (29, 24871), (34, 24880), (39, 24889), (41, 24892), (45, 24901), (73, 24970), (136, 25156), (192, 25333), (244, 25540), (252, 25570), (264, 25606), (269, 25621), (283, 25660), (298, 25708), (300, 25714), (306, 25741), (327, 25807), (353, 25894), (380, 26029), (394, 26062), (397, 26074), (433, 26203), (455, 26287), (506, 26440), (509, 26452), (541, 26533), (551, 26569), (553, 26575), (578, 26635), (617, 26731),

Gene: GeneCoco_31 Start: 28773, Stop: 31028, Start Num: 37
Candidate Starts for GeneCoco_31:
(Start: 37 @28773 has 342 MA's), (74, 28869), (98, 28947), (104, 28974), (143, 29073), (192, 29232), (237, 29412), (244, 29436), (271, 29532), (283, 29568), (295, 29607), (298, 29616), (306, 29649), (316, 29688), (334, 29733), (351, 29784), (361, 29835), (363, 29844), (380, 29913), (410, 29988), (426, 30033), (429, 30048), (469, 30183), (492, 30237), (499, 30258), (509, 30291), (530, 30336), (551, 30390), (563, 30417), (583, 30474), (590, 30495), (614, 30537), (625, 30576), (642, 30636), (728, 30876), (737, 30912), (751, 30945), (789, 31014),

Gene: Gervas_31 Start: 28594, Stop: 30819, Start Num: 28
Candidate Starts for Gervas_31:
(Start: 28 @28594 has 52 MA's), (59, 28654), (79, 28711), (135, 28858), (143, 28870), (158, 28912), (169, 28948), (179, 28975), (183, 28987), (190, 29014), (211, 29104), (229, 29176), (252, 29260), (286, 29368), (291, 29389), (316, 29482), (323, 29497), (360, 29626), (380, 29707), (410, 29782), (425, 29824), (426, 29830), (436, 29866), (469, 29980), (473, 29992), (492, 30034), (499, 30055), (521, 30109), (530, 30133), (546, 30169), (583, 30265), (586, 30274), (614, 30328), (645, 30436), (656, 30463), (672, 30505), (701, 30577), (728, 30667), (737, 30703),

Gene: Gibbin_31 Start: 26849, Stop: 28849, Start Num: 5
Candidate Starts for Gibbin_31:
(Start: 5 @26849 has 38 MA's), (29, 26963), (34, 26972), (39, 26981), (41, 26984), (45, 26993), (73, 27062), (192, 27425), (209, 27500), (244, 27632), (251, 27659), (252, 27662), (254, 27665), (283, 27752), (298, 27800), (300, 27806), (306, 27833), (331, 27911), (344, 27962), (380, 28121), (394, 28154), (468, 28427), (473, 28445), (551, 28661), (553, 28667), (562, 28685), (578, 28727), (601, 28784), (617, 28823),

Gene: GinPorsche_27 Start: 27941, Stop: 30238, Start Num: 37
Candidate Starts for GinPorsche_27:
(Start: 37 @27941 has 342 MA's), (74, 28040), (104, 28145), (118, 28181), (143, 28244), (167, 28325), (189, 28391), (192, 28403), (218, 28508), (228, 28547), (241, 28598), (244, 28607), (265, 28688), (266, 28691), (283, 28754), (296, 28796), (300, 28808), (335, 28931), (346, 28955), (360, 29018), (367, 29048), (368, 29057), (392, 29129), (399, 29150), (410, 29186), (417, 29207), (436, 29273), (440, 29285), (453, 29336), (457, 29339), (460, 29357), (468, 29381), (476, 29408), (492, 29441), (499, 29462), (509, 29495), (530, 29540), (585, 29681), (586, 29684), (590, 29696), (626, 29780), (672, 29915), (682, 29939), (703, 30002), (710, 30032), (713, 30038), (728, 30086), (736, 30119), (737, 30122), (789, 30224), (790, 30227),

Gene: Giraffe_31 Start: 28467, Stop: 30722, Start Num: 37
Candidate Starts for Giraffe_31:
(Start: 37 @28467 has 342 MA's), (74, 28563), (98, 28641), (104, 28668), (143, 28767), (192, 28926), (237, 29106), (244, 29130), (269, 29220), (271, 29226), (283, 29262), (295, 29301), (298, 29310), (306, 29343), (316, 29382), (334, 29427), (351, 29478), (361, 29529), (363, 29538), (380, 29607), (410, 29682), (426, 29727), (429, 29742), (469, 29877), (492, 29931), (499, 29952), (509, 29985), (530, 30030), (551, 30084), (563, 30111), (583, 30168), (590, 30189), (614, 30231), (625, 30270), (642, 30330), (728, 30570), (736, 30603), (737, 30606), (751, 30639), (756, 30645), (789, 30708),

Gene: Glaske_21 Start: 18926, Stop: 21559, Start Num: 9
Candidate Starts for Glaske_21:
(Start: 9 @18926 has 17 MA's), (11, 18935), (62, 19079), (157, 19352), (161, 19364), (170, 19385), (180, 19409), (200, 19484), (215, 19556), (224, 19586), (233, 19622), (247, 19685), (254, 19700), (262, 19727), (265, 19733), (288, 19808), (294, 19832), (296, 19838), (300, 19850), (307, 19892), (309, 19898), (337, 19985), (345, 20006), (352, 20030), (365, 20096), (368, 20117), (372, 20135), (382, 20168), (390, 20192), (392, 20195), (406, 20246), (444, 20351), (453, 20393), (507, 20558), (543, 20654), (568, 20732), (573, 20744), (610, 20834), (627, 20894), (630, 20903), (644, 20951), (645, 20960), (685, 21077), (700, 21122), (718, 21164), (735, 21230), (743, 21254), (768, 21302), (772, 21308), (776, 21314), (822, 21413), (825, 21422), (834, 21452), (855, 21542), (859, 21551),

Gene: GlenHope_32 Start: 28606, Stop: 30831, Start Num: 28
Candidate Starts for GlenHope_32:
(Start: 28 @28606 has 52 MA's), (Start: 40 @28621 has 1 MA's), (59, 28666), (79, 28723), (105, 28801), (135, 28870), (143, 28882), (158, 28924), (169, 28960), (179, 28987), (183, 28999), (190, 29026), (211, 29116), (229, 29188), (252, 29272), (286, 29380), (291, 29401), (316, 29494), (323, 29509), (360, 29638), (380, 29719), (410, 29794), (425, 29836), (426, 29842), (436, 29878), (453, 29941), (469, 29992), (473, 30004), (492, 30046), (499, 30067), (521, 30121), (530, 30145), (546, 30181), (583, 30277), (586, 30286), (614, 30340), (645, 30448), (656, 30475), (672, 30517), (701, 30589), (728, 30679), (737, 30715),

Gene: Glubnar_32 Start: 28606, Stop: 30831, Start Num: 28
Candidate Starts for Glubnar_32:
(Start: 28 @28606 has 52 MA's), (Start: 40 @28621 has 1 MA's), (59, 28666), (79, 28723), (105, 28801), (135, 28870), (143, 28882), (158, 28924), (169, 28960), (179, 28987), (183, 28999), (190, 29026), (211, 29116), (229, 29188), (252, 29272), (286, 29380), (291, 29401), (316, 29494), (323, 29509), (360, 29638), (380, 29719), (410, 29794), (425, 29836), (426, 29842), (436, 29878), (453, 29941), (469, 29992), (473, 30004), (492, 30046), (499, 30067), (521, 30121), (530, 30145), (546, 30181), (583, 30277), (586, 30286), (614, 30340), (645, 30448), (656, 30475), (672, 30517), (701, 30589), (728, 30679), (737, 30715),

Gene: Gophee_31 Start: 28749, Stop: 31004, Start Num: 37
Candidate Starts for Gophee_31:
(Start: 37 @28749 has 342 MA's), (74, 28845), (98, 28923), (104, 28950), (143, 29049), (192, 29208), (237, 29388), (244, 29412), (269, 29502), (271, 29508), (283, 29544), (295, 29583), (298, 29592), (306, 29625), (316, 29664), (334, 29709), (351, 29760), (361, 29811), (363, 29820), (380, 29889), (410, 29964), (426, 30009), (429, 30024), (469, 30159), (492, 30213), (499, 30234), (509, 30267), (530, 30312), (551, 30366), (563, 30393), (583, 30450), (590, 30471), (614, 30513), (625, 30552), (642, 30612), (728, 30852), (736, 30885), (737, 30888), (751, 30921), (756, 30927), (789, 30990),

Gene: Grand2040_30 Start: 28482, Stop: 30737, Start Num: 37
Candidate Starts for Grand2040_30:
(Start: 37 @28482 has 342 MA's), (74, 28578), (98, 28656), (104, 28683), (143, 28782), (192, 28941), (237, 29121), (244, 29145), (269, 29235), (271, 29241), (283, 29277), (295, 29316), (298, 29325), (306, 29358), (316, 29397), (334, 29442), (351, 29493), (361, 29544), (363, 29553), (380, 29622), (410, 29697), (426, 29742), (429, 29757), (469, 29892), (492, 29946), (499, 29967), (509, 30000), (530, 30045), (551, 30099), (563, 30126), (583, 30183), (590, 30204), (614, 30246), (625, 30285), (642, 30345), (728, 30585), (737, 30621), (751, 30654), (789, 30723),

Gene: GrandSlam_25 Start: 21141, Stop: 23651, Start Num: 19
Candidate Starts for GrandSlam_25:
(Start: 19 @21141 has 14 MA's), (74, 21273), (77, 21288), (92, 21333), (102, 21351), (165, 21516), (184, 21570), (186, 21579), (203, 21657), (204, 21663), (247, 21828), (254, 21843), (265, 21879),

(288, 21954), (291, 21966), (294, 21975), (300, 21993), (303, 22005), (308, 22038), (309, 22041), (323, 22077), (338, 22131), (369, 22254), (384, 22308), (391, 22329), (396, 22338), (423, 22440), (441, 22500), (453, 22548), (454, 22560), (466, 22605), (500, 22692), (513, 22731), (541, 22800), (545, 22812), (549, 22824), (649, 23112), (659, 23142), (683, 23223), (690, 23244), (697, 23271), (705, 23295), (752, 23460), (771, 23505), (811, 23604), (826, 23643),

Gene: GreenChile_31 Start: 28758, Stop: 31013, Start Num: 37
Candidate Starts for GreenChile_31:
(Start: 37 @28758 has 342 MA's), (74, 28854), (98, 28932), (104, 28959), (143, 29058), (192, 29217), (237, 29397), (244, 29421), (269, 29511), (271, 29517), (283, 29553), (295, 29592), (298, 29601), (306, 29634), (316, 29673), (334, 29718), (351, 29769), (361, 29820), (363, 29829), (380, 29898), (410, 29973), (426, 30018), (429, 30033), (469, 30168), (492, 30222), (499, 30243), (509, 30276), (530, 30321), (551, 30375), (563, 30402), (583, 30459), (590, 30480), (614, 30522), (625, 30561), (642, 30621), (728, 30861), (736, 30894), (737, 30897), (751, 30930), (756, 30936), (789, 30999),

Gene: GretelLyn_30 Start: 27111, Stop: 29111, Start Num: 5
Candidate Starts for GretelLyn_30:
(Start: 5 @27111 has 38 MA's), (29, 27225), (34, 27234), (39, 27243), (41, 27246), (45, 27255), (73, 27324), (136, 27510), (192, 27687), (244, 27894), (251, 27921), (252, 27924), (254, 27927), (283, 28014), (298, 28062), (300, 28068), (306, 28095), (331, 28173), (344, 28224), (376, 28371), (380, 28383), (394, 28416), (397, 28428), (468, 28689), (541, 28890), (551, 28926), (553, 28932), (578, 28992),

Gene: Guillaume_27 Start: 35339, Stop: 37363, Start Num: 6
Candidate Starts for Guillaume_27:
(Start: 6 @35339 has 35 MA's), (14, 35387), (23, 35423), (26, 35441), (30, 35450), (44, 35480), (45, 35483), (84, 35594), (122, 35714), (257, 36191), (261, 36200), (294, 36299), (306, 36344), (327, 36410), (353, 36497), (380, 36632), (394, 36665), (479, 36977), (506, 37043), (509, 37055), (541, 37136), (551, 37172), (553, 37178), (566, 37205), (578, 37238),

Gene: Gwennie1_31 Start: 28828, Stop: 31086, Start Num: 37
Candidate Starts for Gwennie1_31:
(Start: 37 @28828 has 342 MA's), (74, 28924), (98, 29002), (104, 29029), (133, 29104), (143, 29131), (192, 29290), (237, 29470), (244, 29494), (269, 29584), (271, 29590), (283, 29626), (295, 29665), (298, 29674), (306, 29707), (316, 29746), (334, 29791), (351, 29842), (361, 29893), (363, 29902), (380, 29971), (410, 30046), (426, 30091), (429, 30106), (469, 30241), (492, 30295), (499, 30316), (509, 30349), (530, 30394), (551, 30448), (563, 30475), (583, 30532), (590, 30553), (614, 30595), (625, 30634), (642, 30694), (728, 30934), (737, 30970), (751, 31003), (789, 31072),

Gene: Gwilliam_31 Start: 28761, Stop: 31016, Start Num: 37
Candidate Starts for Gwilliam_31:
(Start: 37 @28761 has 342 MA's), (74, 28857), (98, 28935), (104, 28962), (143, 29061), (192, 29220), (237, 29400), (244, 29424), (269, 29514), (271, 29520), (283, 29556), (295, 29595), (298, 29604), (306, 29637), (316, 29676), (334, 29721), (351, 29772), (361, 29823), (363, 29832), (380, 29901), (410, 29976), (426, 30021), (429, 30036), (469, 30171), (492, 30225), (499, 30246), (509, 30279), (530, 30324), (551, 30378), (563, 30405), (583, 30462), (590, 30483), (614, 30525), (625, 30564), (642, 30624), (728, 30864), (736, 30897), (737, 30900), (751, 30933), (756, 30939), (789, 31002),

Gene: Gyarad_0031 Start: 28763, Stop: 31018, Start Num: 37
Candidate Starts for Gyarad_0031:
(Start: 37 @28763 has 342 MA's), (74, 28859), (98, 28937), (104, 28964), (143, 29063), (192, 29222), (237, 29402), (244, 29426), (269, 29516), (271, 29522), (283, 29558), (295, 29597), (298, 29606), (306, 29639), (316, 29678), (334, 29723), (351, 29774), (361, 29825), (363, 29834), (380, 29903),

(410, 29978), (426, 30023), (429, 30038), (469, 30173), (492, 30227), (499, 30248), (509, 30281), (530, 30326), (551, 30380), (563, 30407), (583, 30464), (590, 30485), (614, 30527), (625, 30566), (642, 30626), (728, 30866), (736, 30899), (737, 30902), (751, 30935), (756, 30941), (789, 31004),

Gene: HSavage_31 Start: 28768, Stop: 31023, Start Num: 37
Candidate Starts for HSavage_31:
(Start: 37 @28768 has 342 MA's), (74, 28864), (98, 28942), (104, 28969), (143, 29068), (192, 29227), (237, 29407), (244, 29431), (269, 29521), (271, 29527), (283, 29563), (295, 29602), (298, 29611), (306, 29644), (316, 29683), (334, 29728), (351, 29779), (361, 29830), (363, 29839), (380, 29908), (410, 29983), (426, 30028), (429, 30043), (469, 30178), (492, 30232), (499, 30253), (509, 30286), (530, 30331), (551, 30385), (563, 30412), (583, 30469), (590, 30490), (614, 30532), (625, 30571), (642, 30631), (728, 30871), (736, 30904), (737, 30907), (751, 30940), (756, 30946), (789, 31009),

Gene: Hail2Pitt_27 Start: 35816, Stop: 37840, Start Num: 6
Candidate Starts for Hail2Pitt_27:
(Start: 6 @35816 has 35 MA's), (14, 35864), (23, 35900), (26, 35918), (30, 35927), (44, 35957), (45, 35960), (84, 36071), (122, 36191), (257, 36668), (261, 36677), (294, 36776), (306, 36821), (327, 36887), (353, 36974), (380, 37109), (394, 37142), (397, 37154), (479, 37454), (506, 37520), (509, 37532), (541, 37613), (551, 37649), (553, 37655), (566, 37682), (578, 37715), (617, 37811),

Gene: Haimas_31 Start: 28759, Stop: 31014, Start Num: 37
Candidate Starts for Haimas_31:
(Start: 37 @28759 has 342 MA's), (74, 28855), (98, 28933), (104, 28960), (143, 29059), (192, 29218), (237, 29398), (244, 29422), (269, 29512), (271, 29518), (283, 29554), (295, 29593), (298, 29602), (306, 29635), (316, 29674), (334, 29719), (351, 29770), (361, 29821), (363, 29830), (380, 29899), (410, 29974), (426, 30019), (429, 30034), (469, 30169), (492, 30223), (499, 30244), (509, 30277), (530, 30322), (551, 30376), (563, 30403), (583, 30460), (590, 30481), (614, 30523), (625, 30562), (642, 30622), (728, 30862), (736, 30895), (737, 30898), (751, 30931), (756, 30937), (789, 31000),

Gene: Haleema_30 Start: 28482, Stop: 30737, Start Num: 37
Candidate Starts for Haleema_30:
(Start: 37 @28482 has 342 MA's), (74, 28578), (98, 28656), (104, 28683), (143, 28782), (192, 28941), (237, 29121), (244, 29145), (269, 29235), (271, 29241), (283, 29277), (295, 29316), (298, 29325), (306, 29358), (316, 29397), (334, 29442), (351, 29493), (361, 29544), (363, 29553), (380, 29622), (410, 29697), (426, 29742), (429, 29757), (469, 29892), (492, 29946), (499, 29967), (509, 30000), (530, 30045), (551, 30099), (563, 30126), (583, 30183), (590, 30204), (614, 30246), (625, 30285), (642, 30345), (728, 30585), (736, 30618), (737, 30621), (751, 30654), (756, 30660), (789, 30723),

Gene: Halfpint_30 Start: 28429, Stop: 30654, Start Num: 28
Candidate Starts for Halfpint_30:
(Start: 28 @28429 has 52 MA's), (Start: 40 @28444 has 1 MA's), (59, 28489), (79, 28546), (105, 28624), (135, 28693), (143, 28705), (158, 28747), (169, 28783), (179, 28810), (183, 28822), (190, 28849), (211, 28939), (217, 28963), (229, 29011), (252, 29095), (286, 29203), (291, 29224), (316, 29317), (323, 29332), (360, 29461), (380, 29542), (410, 29617), (425, 29659), (426, 29665), (453, 29764), (469, 29815), (473, 29827), (492, 29869), (499, 29890), (521, 29944), (530, 29968), (546, 30004), (583, 30100), (586, 30109), (614, 30163), (645, 30271), (656, 30298), (672, 30340), (701, 30412), (728, 30502), (737, 30538),

Gene: Hally898_27 Start: 27953, Stop: 30250, Start Num: 37
Candidate Starts for Hally898_27:
(Start: 37 @27953 has 342 MA's), (74, 28052), (104, 28157), (118, 28193), (143, 28256), (167, 28337), (189, 28403), (192, 28415), (218, 28520), (228, 28559), (241, 28610), (244, 28619), (265, 28700), (266, 28703), (283, 28766), (296, 28808), (300, 28820), (335, 28943), (346, 28967), (360, 29030),

(367, 29060), (368, 29069), (392, 29141), (399, 29162), (410, 29198), (417, 29219), (436, 29285), (440, 29297), (453, 29348), (457, 29351), (460, 29369), (468, 29393), (476, 29420), (492, 29453), (499, 29474), (509, 29507), (530, 29552), (585, 29693), (586, 29696), (590, 29708), (626, 29792), (672, 29927), (682, 29951), (703, 30014), (710, 30044), (713, 30050), (728, 30098), (736, 30131), (737, 30134), (789, 30236), (790, 30239),

Gene: Hamish_31 Start: 28751, Stop: 31006, Start Num: 37
Candidate Starts for Hamish_31:
(Start: 37 @28751 has 342 MA's), (74, 28847), (98, 28925), (104, 28952), (143, 29051), (192, 29210), (237, 29390), (244, 29414), (269, 29504), (271, 29510), (283, 29546), (295, 29585), (298, 29594), (306, 29627), (316, 29666), (334, 29711), (351, 29762), (361, 29813), (363, 29822), (380, 29891), (410, 29966), (426, 30011), (429, 30026), (469, 30161), (492, 30215), (499, 30236), (509, 30269), (530, 30314), (551, 30368), (563, 30395), (583, 30452), (590, 30473), (614, 30515), (625, 30554), (642, 30614), (728, 30854), (736, 30887), (737, 30890), (751, 30923), (756, 30929), (789, 30992),

Gene: Hammy_26 Start: 21316, Stop: 23694, Start Num: 24
Candidate Starts for Hammy_26:
(Start: 24 @21316 has 60 MA's), (26, 21325), (44, 21364), (89, 21487), (142, 21544), (144, 21556), (169, 21622), (188, 21676), (204, 21754), (228, 21844), (238, 21886), (254, 21937), (271, 21979), (272, 21982), (276, 22003), (294, 22063), (296, 22069), (352, 22261), (377, 22378), (424, 22486), (427, 22504), (431, 22516), (480, 22660), (542, 22795), (543, 22798), (544, 22801), (554, 22834), (557, 22840), (574, 22894), (617, 23002), (625, 23035), (627, 23041), (633, 23056), (644, 23098), (670, 23185), (674, 23191), (721, 23320), (727, 23341), (816, 23536), (823, 23557), (824, 23560), (835, 23599), (857, 23668),

Gene: Hamood_25 Start: 21141, Stop: 23651, Start Num: 19
Candidate Starts for Hamood_25:
(Start: 19 @21141 has 14 MA's), (74, 21273), (77, 21288), (92, 21333), (102, 21351), (165, 21516), (184, 21570), (186, 21579), (203, 21657), (204, 21663), (247, 21828), (254, 21843), (265, 21879), (288, 21954), (291, 21966), (294, 21975), (300, 21993), (303, 22005), (308, 22038), (309, 22041), (323, 22077), (338, 22131), (369, 22254), (384, 22308), (391, 22329), (396, 22338), (423, 22440), (441, 22500), (453, 22548), (454, 22560), (466, 22605), (500, 22692), (513, 22731), (541, 22800), (545, 22812), (549, 22824), (649, 23112), (659, 23142), (683, 23223), (690, 23244), (697, 23271), (705, 23295), (752, 23460), (771, 23505), (811, 23604), (826, 23643),

Gene: Hangman_28 Start: 28965, Stop: 31262, Start Num: 37
Candidate Starts for Hangman_28:
(Start: 1 @28278 has 1 MA's), (2, 28425), (Start: 37 @28965 has 342 MA's), (74, 29064), (79, 29082), (118, 29205), (143, 29268), (167, 29349), (189, 29415), (218, 29532), (228, 29571), (241, 29622), (244, 29631), (258, 29688), (265, 29712), (266, 29715), (283, 29778), (296, 29820), (300, 29832), (335, 29955), (346, 29979), (360, 30042), (392, 30153), (399, 30174), (410, 30210), (417, 30231), (436, 30297), (440, 30309), (452, 30351), (453, 30360), (457, 30363), (460, 30381), (461, 30384), (468, 30405), (476, 30432), (492, 30465), (499, 30486), (509, 30519), (530, 30564), (585, 30705), (586, 30708), (590, 30720), (626, 30804), (664, 30918), (672, 30939), (682, 30963), (703, 31026), (710, 31056), (728, 31110), (736, 31143), (737, 31146), (789, 31248), (790, 31251),

Gene: Happabalu_31 Start: 28480, Stop: 30735, Start Num: 37
Candidate Starts for Happabalu_31:
(Start: 37 @28480 has 342 MA's), (74, 28576), (98, 28654), (104, 28681), (143, 28780), (192, 28939), (237, 29119), (244, 29143), (269, 29233), (271, 29239), (283, 29275), (295, 29314), (298, 29323), (306, 29356), (316, 29395), (334, 29440), (351, 29491), (361, 29542), (363, 29551), (380, 29620), (410, 29695), (426, 29740), (429, 29755), (469, 29890), (492, 29944), (499, 29965), (509, 29998), (530, 30043), (551, 30097), (563, 30124), (583, 30181), (590, 30202), (614, 30244), (625, 30283),

(642, 30343), (728, 30583), (737, 30619), (751, 30652), (789, 30721),

Gene: Harambe_27 Start: 35606, Stop: 37630, Start Num: 6
Candidate Starts for Harambe_27:
(Start: 6 @35606 has 35 MA's), (14, 35654), (23, 35690), (26, 35708), (30, 35717), (44, 35747), (45, 35750), (84, 35861), (122, 35981), (257, 36458), (261, 36467), (294, 36566), (306, 36611), (327, 36677), (353, 36764), (380, 36899), (394, 36932), (479, 37244), (506, 37310), (509, 37322), (541, 37403), (551, 37439), (553, 37445), (566, 37472), (578, 37505), (617, 37601),

Gene: Hartsy_31 Start: 28802, Stop: 31057, Start Num: 37
Candidate Starts for Hartsy_31:
(Start: 37 @28802 has 342 MA's), (74, 28898), (98, 28976), (104, 29003), (143, 29102), (192, 29261), (237, 29441), (244, 29465), (269, 29555), (271, 29561), (283, 29597), (295, 29636), (298, 29645), (306, 29678), (316, 29717), (334, 29762), (351, 29813), (361, 29864), (363, 29873), (380, 29942), (410, 30017), (426, 30062), (429, 30077), (469, 30212), (492, 30266), (499, 30287), (509, 30320), (530, 30365), (551, 30419), (563, 30446), (583, 30503), (590, 30524), (614, 30566), (625, 30605), (642, 30665), (728, 30905), (736, 30938), (737, 30941), (751, 30974), (756, 30980), (789, 31043),

Gene: Harvey_31 Start: 28777, Stop: 31032, Start Num: 37
Candidate Starts for Harvey_31:
(Start: 37 @28777 has 342 MA's), (74, 28873), (98, 28951), (104, 28978), (143, 29077), (192, 29236), (237, 29416), (244, 29440), (269, 29530), (271, 29536), (283, 29572), (295, 29611), (298, 29620), (306, 29653), (316, 29692), (334, 29737), (351, 29788), (361, 29839), (363, 29848), (380, 29917), (410, 29992), (426, 30037), (429, 30052), (469, 30187), (492, 30241), (499, 30262), (509, 30295), (530, 30340), (551, 30394), (563, 30421), (583, 30478), (590, 30499), (614, 30541), (625, 30580), (642, 30640), (728, 30880), (736, 30913), (737, 30916), (751, 30949), (756, 30955), (789, 31018),

Gene: HarveySr_31 Start: 28593, Stop: 30821, Start Num: 28
Candidate Starts for HarveySr_31:
(Start: 28 @28593 has 52 MA's), (Start: 40 @28608 has 1 MA's), (59, 28653), (79, 28710), (105, 28788), (135, 28857), (143, 28869), (158, 28911), (169, 28947), (179, 28974), (183, 28986), (190, 29013), (211, 29103), (229, 29175), (252, 29259), (286, 29367), (291, 29388), (316, 29481), (323, 29496), (360, 29625), (380, 29706), (410, 29781), (425, 29823), (426, 29829), (436, 29865), (469, 29979), (473, 29991), (492, 30033), (499, 30054), (521, 30108), (530, 30132), (546, 30168), (583, 30267), (586, 30276), (614, 30330), (645, 30438), (656, 30465), (672, 30507), (701, 30579), (728, 30669), (737, 30705),

Gene: Hashim76_34 Start: 28773, Stop: 31235, Start Num: 37
Candidate Starts for Hashim76_34:
(Start: 37 @28773 has 342 MA's), (42, 28782), (79, 28887), (89, 28920), (98, 28947), (113, 28989), (147, 29103), (167, 29166), (176, 29193), (190, 29235), (241, 29442), (249, 29478), (259, 29511), (282, 29577), (306, 29664), (309, 29685), (323, 29718), (360, 29847), (374, 29913), (424, 30060), (427, 30078), (467, 30210), (476, 30237), (493, 30273), (518, 30342), (525, 30354), (534, 30384), (540, 30399), (548, 30420), (571, 30489), (574, 30501), (595, 30555), (603, 30561), (614, 30591), (621, 30612), (666, 30759), (681, 30804), (689, 30831), (796, 31101), (818, 31158), (825, 31179),

Gene: Heath_27 Start: 28566, Stop: 30863, Start Num: 37
Candidate Starts for Heath_27:
(Start: 1 @27879 has 1 MA's), (2, 28026), (4, 28437), (Start: 37 @28566 has 342 MA's), (74, 28665), (104, 28770), (118, 28806), (143, 28869), (167, 28950), (189, 29016), (218, 29133), (228, 29172), (241, 29223), (244, 29232), (258, 29289), (265, 29313), (266, 29316), (283, 29379), (296, 29421), (300, 29433), (335, 29556), (346, 29580), (360, 29643), (392, 29754), (399, 29775), (410, 29811), (417, 29832), (436, 29898), (440, 29910), (453, 29961), (457, 29964), (460, 29982), (468, 30006),

(476, 30033), (492, 30066), (499, 30087), (509, 30120), (530, 30165), (585, 30306), (586, 30309), (590, 30321), (626, 30405), (664, 30519), (672, 30540), (682, 30564), (703, 30627), (710, 30657), (713, 30663), (728, 30711), (736, 30744), (737, 30747), (789, 30849), (790, 30852),

Gene: Heathcliff_31 Start: 28575, Stop: 30803, Start Num: 28
Candidate Starts for Heathcliff_31:
(Start: 28 @28575 has 52 MA's), (Start: 40 @28590 has 1 MA's), (59, 28635), (79, 28692), (105, 28770), (135, 28839), (143, 28851), (158, 28893), (169, 28929), (179, 28956), (183, 28968), (190, 28995), (211, 29085), (229, 29157), (252, 29241), (286, 29349), (291, 29370), (316, 29463), (323, 29478), (360, 29607), (380, 29688), (410, 29763), (425, 29805), (426, 29811), (469, 29961), (473, 29973), (492, 30015), (499, 30036), (521, 30090), (530, 30114), (583, 30249), (586, 30258), (614, 30312), (645, 30420), (656, 30447), (672, 30489), (701, 30561), (728, 30651), (737, 30687),

Gene: Hekos_28 Start: 27331, Stop: 29586, Start Num: 37
Candidate Starts for Hekos_28:
(Start: 37 @27331 has 342 MA's), (74, 27427), (98, 27505), (104, 27532), (143, 27631), (192, 27790), (237, 27970), (244, 27994), (271, 28090), (283, 28126), (295, 28165), (298, 28174), (306, 28207), (316, 28246), (334, 28291), (351, 28342), (361, 28393), (363, 28402), (380, 28471), (410, 28546), (426, 28591), (429, 28606), (469, 28741), (492, 28795), (499, 28816), (509, 28849), (530, 28894), (551, 28948), (563, 28975), (583, 29032), (590, 29053), (614, 29095), (625, 29134), (642, 29194), (728, 29434), (737, 29470), (751, 29503), (789, 29572),

Gene: Held_31 Start: 28466, Stop: 30721, Start Num: 37
Candidate Starts for Held_31:
(Start: 37 @28466 has 342 MA's), (74, 28562), (98, 28640), (104, 28667), (143, 28766), (192, 28925), (237, 29105), (244, 29129), (269, 29219), (271, 29225), (283, 29261), (295, 29300), (298, 29309), (306, 29342), (316, 29381), (334, 29426), (351, 29477), (361, 29528), (363, 29537), (380, 29606), (410, 29681), (426, 29726), (429, 29741), (469, 29876), (492, 29930), (499, 29951), (509, 29984), (530, 30029), (551, 30083), (563, 30110), (583, 30167), (590, 30188), (614, 30230), (625, 30269), (642, 30329), (728, 30569), (737, 30605), (751, 30638), (789, 30707),

Gene: Hello_27 Start: 35568, Stop: 37592, Start Num: 6
Candidate Starts for Hello_27:
(Start: 6 @35568 has 35 MA's), (14, 35616), (23, 35652), (26, 35670), (30, 35679), (44, 35709), (45, 35712), (122, 35943), (257, 36420), (261, 36429), (294, 36528), (306, 36573), (327, 36639), (353, 36726), (380, 36861), (394, 36894), (479, 37206), (506, 37272), (509, 37284), (541, 37365), (551, 37401), (553, 37407), (566, 37434), (578, 37467),

Gene: HenryJackson_30 Start: 28482, Stop: 30737, Start Num: 37
Candidate Starts for HenryJackson_30:
(Start: 37 @28482 has 342 MA's), (74, 28578), (98, 28656), (104, 28683), (143, 28782), (192, 28941), (237, 29121), (244, 29145), (269, 29235), (271, 29241), (283, 29277), (295, 29316), (298, 29325), (306, 29358), (316, 29397), (334, 29442), (351, 29493), (361, 29544), (363, 29553), (380, 29622), (410, 29697), (426, 29742), (429, 29757), (469, 29892), (492, 29946), (499, 29967), (509, 30000), (530, 30045), (551, 30099), (563, 30126), (583, 30183), (590, 30204), (614, 30246), (625, 30285), (642, 30345), (728, 30585), (736, 30618), (737, 30621), (751, 30654), (756, 30660), (789, 30723),

Gene: Hertubise_31 Start: 28773, Stop: 31028, Start Num: 37
Candidate Starts for Hertubise_31:
(Start: 37 @28773 has 342 MA's), (74, 28869), (98, 28947), (104, 28974), (143, 29073), (192, 29232), (237, 29412), (244, 29436), (269, 29526), (271, 29532), (283, 29568), (295, 29607), (298, 29616), (306, 29649), (316, 29688), (334, 29733), (351, 29784), (361, 29835), (363, 29844), (380, 29913), (410, 29988), (426, 30033), (429, 30048), (469, 30183), (492, 30237), (499, 30258), (509, 30291),

(530, 30336), (551, 30390), (583, 30474), (590, 30495), (614, 30537), (625, 30576), (642, 30636), (728, 30876), (736, 30909), (737, 30912), (751, 30945), (756, 30951), (789, 31014),

Gene: Hetaeria_31 Start: 28775, Stop: 31030, Start Num: 37
Candidate Starts for Hetaeria_31:
(Start: 37 @28775 has 342 MA's), (74, 28871), (98, 28949), (104, 28976), (143, 29075), (192, 29234), (237, 29414), (244, 29438), (269, 29528), (271, 29534), (283, 29570), (295, 29609), (298, 29618), (306, 29651), (316, 29690), (334, 29735), (351, 29786), (361, 29837), (363, 29846), (380, 29915), (410, 29990), (426, 30035), (429, 30050), (469, 30185), (492, 30239), (499, 30260), (509, 30293), (530, 30338), (551, 30392), (583, 30476), (590, 30497), (614, 30539), (625, 30578), (642, 30638), (728, 30878), (736, 30911), (737, 30914), (751, 30947), (756, 30953), (789, 31016),

Gene: HighStump_30 Start: 28465, Stop: 30720, Start Num: 37
Candidate Starts for HighStump_30:
(Start: 37 @28465 has 342 MA's), (74, 28561), (98, 28639), (104, 28666), (143, 28765), (192, 28924), (237, 29104), (244, 29128), (269, 29218), (271, 29224), (283, 29260), (295, 29299), (298, 29308), (306, 29341), (316, 29380), (334, 29425), (351, 29476), (361, 29527), (363, 29536), (380, 29605), (410, 29680), (426, 29725), (429, 29740), (469, 29875), (492, 29929), (499, 29950), (509, 29983), (530, 30028), (551, 30082), (563, 30109), (583, 30166), (590, 30187), (614, 30229), (625, 30268), (642, 30328), (728, 30568), (736, 30601), (737, 30604), (751, 30637), (756, 30643), (789, 30706),

Gene: Hilltopfarm_27 Start: 23459, Stop: 26053, Start Num: 31
Candidate Starts for Hilltopfarm_27:
(Start: 31 @23459 has 6 MA's), (48, 23498), (75, 23573), (105, 23675), (109, 23684), (133, 23762), (157, 23843), (160, 23852), (176, 23897), (180, 23900), (183, 23909), (186, 23921), (187, 23924), (193, 23948), (200, 23975), (202, 23984), (215, 24047), (233, 24113), (242, 24149), (243, 24152), (265, 24224), (267, 24230), (288, 24299), (307, 24383), (335, 24464), (340, 24485), (368, 24608), (382, 24659), (392, 24686), (406, 24737), (424, 24782), (440, 24833), (444, 24842), (452, 24875), (459, 24920), (504, 25043), (505, 25046), (507, 25049), (548, 25160), (568, 25223), (584, 25271), (621, 25358), (627, 25385), (630, 25394), (633, 25400), (644, 25442), (645, 25451), (685, 25568), (686, 25571), (718, 25655), (728, 25691), (743, 25745), (768, 25796), (772, 25802), (776, 25808), (794, 25850), (823, 25910), (834, 25946), (855, 26036), (859, 26045),

Gene: Hocus_30 Start: 28474, Stop: 30729, Start Num: 37
Candidate Starts for Hocus_30:
(Start: 37 @28474 has 342 MA's), (74, 28570), (98, 28648), (104, 28675), (143, 28774), (192, 28933), (237, 29113), (244, 29137), (269, 29227), (271, 29233), (283, 29269), (295, 29308), (298, 29317), (306, 29350), (316, 29389), (334, 29434), (351, 29485), (361, 29536), (363, 29545), (380, 29614), (410, 29689), (426, 29734), (429, 29749), (469, 29884), (492, 29938), (499, 29959), (509, 29992), (530, 30037), (551, 30091), (563, 30118), (583, 30175), (590, 30196), (614, 30238), (625, 30277), (642, 30337), (728, 30577), (736, 30610), (737, 30613), (751, 30646), (756, 30652), (789, 30715),

Gene: HogWash_30 Start: 28768, Stop: 31026, Start Num: 37
Candidate Starts for HogWash_30:
(Start: 37 @28768 has 342 MA's), (74, 28864), (98, 28942), (104, 28969), (143, 29071), (192, 29230), (237, 29410), (244, 29434), (269, 29524), (271, 29530), (283, 29566), (295, 29605), (298, 29614), (306, 29647), (316, 29686), (334, 29731), (351, 29782), (361, 29833), (363, 29842), (380, 29911), (410, 29986), (426, 30031), (429, 30046), (469, 30181), (492, 30235), (499, 30256), (509, 30289), (530, 30334), (551, 30388), (563, 30415), (583, 30472), (590, 30493), (614, 30535), (625, 30574), (642, 30634), (728, 30874), (736, 30907), (737, 30910), (751, 30943), (756, 30949), (789, 31012),

Gene: Horchata_31 Start: 28753, Stop: 31008, Start Num: 37
Candidate Starts for Horchata_31:

(Start: 37 @28753 has 342 MA's), (74, 28849), (98, 28927), (104, 28954), (143, 29053), (192, 29212), (237, 29392), (244, 29416), (271, 29512), (283, 29548), (295, 29587), (298, 29596), (306, 29629), (316, 29668), (334, 29713), (351, 29764), (361, 29815), (363, 29824), (380, 29893), (410, 29968), (426, 30013), (429, 30028), (469, 30163), (492, 30217), (499, 30238), (509, 30271), (530, 30316), (551, 30370), (563, 30397), (583, 30454), (590, 30475), (614, 30517), (625, 30556), (642, 30616), (728, 30856), (737, 30892), (751, 30925), (789, 30994),

Gene: Hurricane_26 Start: 21315, Stop: 23663, Start Num: 24
Candidate Starts for Hurricane_26:
(Start: 24 @21315 has 60 MA's), (Start: 36 @21342 has 1 MA's), (48, 21375), (64, 21420), (86, 21480), (171, 21636), (188, 21681), (196, 21717), (201, 21735), (221, 21813), (233, 21861), (273, 21993), (288, 22047), (292, 22062), (323, 22170), (364, 22287), (373, 22329), (374, 22335), (377, 22344), (382, 22353), (408, 22434), (416, 22452), (419, 22455), (428, 22494), (436, 22515), (445, 22536), (448, 22545), (476, 22632), (512, 22725), (514, 22728), (548, 22800), (596, 22938), (620, 22983), (630, 23022), (635, 23040), (668, 23139), (674, 23157), (692, 23211), (706, 23241), (711, 23259), (721, 23286), (722, 23292), (735, 23340), (770, 23415), (774, 23424), (783, 23445), (788, 23454), (833, 23553), (843, 23595),

Gene: Hydro_28 Start: 28982, Stop: 31279, Start Num: 37
Candidate Starts for Hydro_28:
(Start: 1 @28295 has 1 MA's), (2, 28442), (Start: 37 @28982 has 342 MA's), (74, 29081), (79, 29099), (118, 29222), (143, 29285), (167, 29366), (189, 29432), (218, 29549), (228, 29588), (244, 29648), (258, 29705), (265, 29729), (266, 29732), (283, 29795), (296, 29837), (335, 29972), (346, 29996), (360, 30059), (368, 30098), (392, 30170), (399, 30191), (410, 30227), (417, 30248), (436, 30314), (440, 30326), (453, 30377), (457, 30380), (460, 30398), (468, 30422), (476, 30449), (492, 30482), (499, 30503), (509, 30536), (530, 30581), (585, 30722), (586, 30725), (590, 30737), (626, 30821), (664, 30935), (672, 30956), (682, 30980), (703, 31043), (710, 31073), (713, 31079), (728, 31127), (736, 31160), (737, 31163), (747, 31187), (789, 31265), (790, 31268),

Gene: Impisi_21 Start: 17560, Stop: 20205, Start Num: 9
Candidate Starts for Impisi_21:
(7, 17548), (Start: 9 @17560 has 17 MA's), (13, 17572), (52, 17683), (Start: 61 @17707 has 1 MA's), (62, 17710), (65, 17719), (112, 17857), (125, 17899), (126, 17902), (157, 17992), (160, 18001), (161, 18004), (170, 18025), (174, 18037), (186, 18070), (200, 18124), (215, 18202), (224, 18232), (233, 18268), (247, 18331), (254, 18346), (265, 18379), (288, 18454), (294, 18478), (296, 18484), (300, 18496), (307, 18538), (309, 18544), (337, 18631), (345, 18652), (352, 18676), (365, 18742), (368, 18763), (372, 18781), (382, 18814), (390, 18838), (392, 18841), (406, 18892), (444, 18997), (453, 19039), (507, 19204), (543, 19300), (568, 19378), (573, 19390), (610, 19480), (627, 19540), (630, 19549), (644, 19597), (645, 19606), (685, 19723), (700, 19768), (718, 19810), (735, 19876), (743, 19900), (768, 19948), (772, 19954), (776, 19960), (822, 20059), (825, 20068), (834, 20098), (855, 20188), (859, 20197),

Gene: ImtiyazSitla_30 Start: 28315, Stop: 30570, Start Num: 37
Candidate Starts for ImtiyazSitla_30:
(Start: 37 @28315 has 342 MA's), (74, 28411), (98, 28489), (104, 28516), (143, 28615), (192, 28774), (237, 28954), (244, 28978), (271, 29074), (283, 29110), (295, 29149), (298, 29158), (306, 29191), (316, 29230), (334, 29275), (351, 29326), (361, 29377), (363, 29386), (380, 29455), (410, 29530), (426, 29575), (429, 29590), (469, 29725), (492, 29779), (499, 29800), (509, 29833), (530, 29878), (551, 29932), (563, 29959), (583, 30016), (590, 30037), (614, 30079), (625, 30118), (642, 30178), (728, 30418), (737, 30454), (751, 30487), (789, 30556),

Gene: Imvubu_24 Start: 26459, Stop: 28915, Start Num: 37
Candidate Starts for Imvubu_24:

(Start: 37 @26459 has 342 MA's), (75, 26561), (79, 26573), (97, 26630), (141, 26753), (147, 26783), (176, 26873), (213, 27020), (228, 27071), (235, 27101), (241, 27122), (249, 27158), (251, 27161), (252, 27164), (259, 27191), (280, 27251), (282, 27257), (290, 27284), (306, 27344), (316, 27383), (351, 27479), (360, 27527), (374, 27593), (399, 27653), (415, 27707), (424, 27740), (427, 27758), (476, 27917), (488, 27944), (493, 27953), (495, 27956), (503, 27983), (516, 28019), (518, 28022), (525, 28034), (534, 28064), (544, 28088), (551, 28112), (571, 28169), (603, 28241), (614, 28271), (615, 28274), (621, 28292), (622, 28295), (626, 28316), (636, 28349), (658, 28418), (681, 28484), (689, 28511), (699, 28535), (705, 28556), (717, 28592), (723, 28616), (738, 28670), (746, 28688), (778, 28742), (780, 28745), (798, 28784), (808, 28814), (818, 28838),

Gene: Inchworm_31 Start: 28751, Stop: 31006, Start Num: 37
Candidate Starts for Inchworm_31:
(Start: 37 @28751 has 342 MA's), (74, 28847), (98, 28925), (104, 28952), (143, 29051), (192, 29210), (237, 29390), (244, 29414), (269, 29504), (271, 29510), (283, 29546), (295, 29585), (298, 29594), (306, 29627), (316, 29666), (334, 29711), (351, 29762), (361, 29813), (363, 29822), (380, 29891), (410, 29966), (426, 30011), (429, 30026), (469, 30161), (492, 30215), (499, 30236), (509, 30269), (530, 30314), (551, 30368), (563, 30395), (583, 30452), (590, 30473), (614, 30515), (625, 30554), (642, 30614), (728, 30854), (737, 30890), (751, 30923), (789, 30992),

Gene: Indlovu_28 Start: 28755, Stop: 31250, Start Num: 35
Candidate Starts for Indlovu_28:
(Start: 35 @28755 has 1 MA's), (59, 28815), (139, 29073), (140, 29079), (147, 29112), (173, 29193), (210, 29331), (229, 29403), (236, 29430), (249, 29484), (259, 29517), (264, 29532), (282, 29592), (292, 29628), (295, 29637), (298, 29646), (305, 29676), (309, 29700), (323, 29733), (346, 29799), (351, 29814), (356, 29844), (358, 29853), (374, 29928), (389, 29964), (392, 29970), (399, 29985), (422, 30069), (424, 30072), (427, 30090), (464, 30213), (476, 30249), (503, 30315), (518, 30354), (525, 30366), (540, 30411), (548, 30432), (551, 30444), (595, 30567), (597, 30570), (603, 30573), (614, 30603), (615, 30606), (632, 30663), (636, 30681), (646, 30720), (658, 30750), (689, 30843), (715, 30918), (717, 30924), (778, 31074), (798, 31116), (812, 31152), (818, 31170), (827, 31197), (835, 31227),

Gene: Inverness_31 Start: 28765, Stop: 31020, Start Num: 37
Candidate Starts for Inverness_31:
(Start: 37 @28765 has 342 MA's), (74, 28861), (98, 28939), (104, 28966), (143, 29065), (192, 29224), (237, 29404), (244, 29428), (271, 29524), (283, 29560), (295, 29599), (298, 29608), (306, 29641), (316, 29680), (334, 29725), (351, 29776), (361, 29827), (363, 29836), (380, 29905), (410, 29980), (426, 30025), (429, 30040), (469, 30175), (492, 30229), (499, 30250), (509, 30283), (530, 30328), (551, 30382), (563, 30409), (583, 30466), (590, 30487), (614, 30529), (625, 30568), (642, 30628), (728, 30868), (737, 30904), (751, 30937), (789, 31006),

Gene: Iridessa_31 Start: 28464, Stop: 30722, Start Num: 37
Candidate Starts for Iridessa_31:
(Start: 37 @28464 has 342 MA's), (74, 28560), (98, 28638), (104, 28665), (143, 28767), (192, 28926), (237, 29106), (244, 29130), (269, 29220), (271, 29226), (283, 29262), (295, 29301), (298, 29310), (306, 29343), (316, 29382), (334, 29427), (351, 29478), (361, 29529), (363, 29538), (380, 29607), (410, 29682), (426, 29727), (429, 29742), (469, 29877), (492, 29931), (499, 29952), (509, 29985), (530, 30030), (551, 30084), (563, 30111), (583, 30168), (590, 30189), (614, 30231), (625, 30270), (642, 30330), (728, 30570), (736, 30603), (737, 30606), (751, 30639), (756, 30645), (789, 30708),

Gene: Iridoclysis_31 Start: 28745, Stop: 31000, Start Num: 37
Candidate Starts for Iridoclysis_31:
(Start: 37 @28745 has 342 MA's), (74, 28841), (98, 28919), (104, 28946), (143, 29045), (192, 29204), (237, 29384), (244, 29408), (269, 29498), (271, 29504), (283, 29540), (295, 29579), (298, 29588),

(306, 29621), (316, 29660), (334, 29705), (351, 29756), (361, 29807), (363, 29816), (380, 29885), (410, 29960), (426, 30005), (429, 30020), (469, 30155), (492, 30209), (499, 30230), (509, 30263), (530, 30308), (551, 30362), (563, 30389), (583, 30446), (590, 30467), (614, 30509), (625, 30548), (642, 30608), (728, 30848), (736, 30881), (737, 30884), (751, 30917), (756, 30923), (789, 30986),

Gene: IsaacEli_31 Start: 28769, Stop: 31024, Start Num: 37
Candidate Starts for IsaacEli_31:
(Start: 37 @28769 has 342 MA's), (74, 28865), (98, 28943), (104, 28970), (143, 29069), (192, 29228), (237, 29408), (244, 29432), (269, 29522), (271, 29528), (283, 29564), (295, 29603), (298, 29612), (306, 29645), (316, 29684), (334, 29729), (351, 29780), (361, 29831), (363, 29840), (380, 29909), (410, 29984), (426, 30029), (429, 30044), (469, 30179), (492, 30233), (499, 30254), (509, 30287), (530, 30332), (551, 30386), (583, 30470), (590, 30491), (614, 30533), (625, 30572), (642, 30632), (728, 30872), (736, 30905), (737, 30908), (751, 30941), (756, 30947), (789, 31010),

Gene: JAMaL_28 Start: 29152, Stop: 31449, Start Num: 37
Candidate Starts for JAMaL_28:
(Start: 37 @29152 has 342 MA's), (74, 29251), (79, 29269), (118, 29392), (143, 29455), (167, 29536), (189, 29602), (218, 29719), (228, 29758), (241, 29809), (244, 29818), (265, 29899), (266, 29902), (283, 29965), (296, 30007), (300, 30019), (335, 30142), (346, 30166), (360, 30229), (368, 30268), (392, 30340), (399, 30361), (410, 30397), (417, 30418), (436, 30484), (440, 30496), (453, 30547), (457, 30550), (460, 30568), (468, 30592), (476, 30619), (492, 30652), (499, 30673), (509, 30706), (530, 30751), (585, 30892), (586, 30895), (590, 30907), (626, 30991), (672, 31126), (682, 31150), (703, 31213), (710, 31243), (713, 31249), (728, 31297), (736, 31330), (737, 31333), (789, 31435), (790, 31438),

Gene: JDog_30 Start: 28478, Stop: 30736, Start Num: 37
Candidate Starts for JDog_30:
(Start: 37 @28478 has 342 MA's), (74, 28574), (98, 28652), (104, 28679), (143, 28781), (192, 28940), (237, 29120), (244, 29144), (269, 29234), (271, 29240), (283, 29276), (295, 29315), (298, 29324), (306, 29357), (316, 29396), (334, 29441), (351, 29492), (361, 29543), (363, 29552), (380, 29621), (410, 29696), (426, 29741), (429, 29756), (469, 29891), (492, 29945), (499, 29966), (509, 29999), (530, 30044), (551, 30098), (563, 30125), (583, 30182), (590, 30203), (614, 30245), (625, 30284), (642, 30344), (728, 30584), (737, 30620), (751, 30653), (789, 30722),

Gene: JF1_28 Start: 22272, Stop: 24581, Start Num: 66
Candidate Starts for JF1_28:
(Start: 66 @22272 has 18 MA's), (102, 22362), (106, 22383), (143, 22407), (185, 22524), (214, 22653), (230, 22713), (248, 22785), (252, 22794), (269, 22845), (271, 22851), (274, 22860), (288, 22911), (291, 22923), (296, 22938), (298, 22944), (306, 22977), (319, 23025), (344, 23079), (364, 23151), (372, 23190), (375, 23202), (382, 23217), (400, 23262), (421, 23331), (449, 23412), (502, 23565), (521, 23607), (560, 23736), (574, 23781), (596, 23847), (607, 23862), (636, 23958), (685, 24111), (689, 24126), (692, 24132), (698, 24156), (701, 24162), (703, 24168), (704, 24171), (712, 24195), (718, 24207), (744, 24303), (772, 24354), (774, 24357), (805, 24426), (824, 24462), (834, 24495), (851, 24549), (854, 24558), (859, 24573),

Gene: JacAttac_31 Start: 28751, Stop: 31006, Start Num: 37
Candidate Starts for JacAttac_31:
(Start: 37 @28751 has 342 MA's), (74, 28847), (98, 28925), (104, 28952), (143, 29051), (192, 29210), (237, 29390), (244, 29414), (269, 29504), (271, 29510), (283, 29546), (295, 29585), (298, 29594), (306, 29627), (316, 29666), (334, 29711), (351, 29762), (361, 29813), (363, 29822), (380, 29891), (410, 29966), (426, 30011), (429, 30026), (469, 30161), (492, 30215), (499, 30236), (509, 30269), (530, 30314), (551, 30368), (583, 30452), (590, 30473), (614, 30515), (625, 30554), (642, 30614), (728, 30854), (736, 30887), (737, 30890), (751, 30923), (756, 30929), (789, 30992),

Gene: Jackstina_28 Start: 28536, Stop: 30761, Start Num: 28
Candidate Starts for Jackstina_28:
(Start: 28 @28536 has 52 MA's), (Start: 40 @28551 has 1 MA's), (59, 28596), (79, 28653), (105, 28731), (135, 28800), (143, 28812), (158, 28854), (169, 28890), (179, 28917), (183, 28929), (190, 28956), (211, 29046), (229, 29118), (252, 29202), (286, 29310), (291, 29331), (316, 29424), (323, 29439), (360, 29568), (380, 29649), (410, 29724), (425, 29766), (426, 29772), (436, 29808), (469, 29922), (473, 29934), (492, 29976), (499, 29997), (521, 30051), (530, 30075), (546, 30111), (583, 30207), (586, 30216), (614, 30270), (645, 30378), (656, 30405), (672, 30447), (701, 30519), (728, 30609), (737, 30645),

Gene: JaguarMi_28 Start: 28450, Stop: 30738, Start Num: 37
Candidate Starts for JaguarMi_28:
(Start: 37 @28450 has 342 MA's), (74, 28549), (79, 28567), (104, 28654), (118, 28690), (143, 28753), (167, 28834), (189, 28900), (218, 29017), (228, 29056), (241, 29107), (244, 29116), (258, 29173), (265, 29197), (266, 29200), (283, 29263), (346, 29464), (354, 29494), (355, 29497), (360, 29527), (392, 29638), (399, 29659), (410, 29695), (417, 29716), (436, 29782), (440, 29794), (453, 29845), (457, 29848), (468, 29890), (476, 29917), (492, 29950), (499, 29971), (509, 30004), (510, 30007), (530, 30049), (534, 30061), (583, 30184), (586, 30193), (590, 30205), (609, 30229), (614, 30247), (625, 30286), (626, 30289), (641, 30343), (645, 30355), (664, 30403), (672, 30424), (728, 30586), (736, 30619), (737, 30622), (789, 30724),

Gene: JakeO_30 Start: 28481, Stop: 30739, Start Num: 37
Candidate Starts for JakeO_30:
(Start: 37 @28481 has 342 MA's), (74, 28577), (98, 28655), (104, 28682), (143, 28784), (192, 28943), (237, 29123), (244, 29147), (246, 29159), (271, 29243), (283, 29279), (295, 29318), (298, 29327), (306, 29360), (316, 29399), (334, 29444), (351, 29495), (361, 29546), (363, 29555), (380, 29624), (410, 29699), (426, 29744), (429, 29759), (469, 29894), (492, 29948), (499, 29969), (509, 30002), (530, 30047), (551, 30101), (563, 30128), (583, 30185), (590, 30206), (614, 30248), (625, 30287), (642, 30347), (728, 30587), (737, 30623), (751, 30656), (789, 30725),

Gene: Jalebi_29 Start: 27278, Stop: 29284, Start Num: 5
Candidate Starts for Jalebi_29:
(Start: 5 @27278 has 38 MA's), (29, 27392), (34, 27401), (39, 27410), (41, 27413), (45, 27422), (73, 27491), (192, 27854), (209, 27929), (244, 28061), (251, 28088), (252, 28091), (254, 28094), (283, 28181), (298, 28229), (300, 28235), (306, 28262), (331, 28340), (344, 28391), (380, 28550), (394, 28583), (419, 28664), (460, 28832), (468, 28856), (551, 29093), (553, 29099), (567, 29129), (578, 29162), (617, 29258),

Gene: Jamemuya19_27 Start: 24347, Stop: 26347, Start Num: 5
Candidate Starts for Jamemuya19_27:
(Start: 5 @24347 has 38 MA's), (29, 24461), (34, 24470), (39, 24479), (41, 24482), (45, 24491), (73, 24560), (136, 24746), (192, 24923), (244, 25130), (252, 25160), (264, 25196), (269, 25211), (283, 25250), (298, 25298), (300, 25304), (306, 25331), (327, 25397), (353, 25484), (380, 25619), (394, 25652), (397, 25664), (433, 25793), (455, 25877), (506, 26030), (509, 26042), (541, 26123), (551, 26159), (553, 26165), (578, 26225), (617, 26321),

Gene: Jams_27 Start: 34768, Stop: 36789, Start Num: 6
Candidate Starts for Jams_27:
(Start: 6 @34768 has 35 MA's), (14, 34816), (23, 34852), (26, 34870), (30, 34879), (44, 34909), (45, 34912), (84, 35023), (122, 35143), (257, 35620), (261, 35629), (294, 35728), (306, 35773), (327, 35839), (353, 35926), (380, 36061), (394, 36094), (455, 36319), (457, 36325), (509, 36484), (551, 36601), (553, 36607), (566, 36634), (578, 36667), (617, 36763),

Gene: JangoPhett_31 Start: 28752, Stop: 31007, Start Num: 37
Candidate Starts for JangoPhett_31:
(Start: 37 @28752 has 342 MA's), (74, 28848), (98, 28926), (104, 28953), (143, 29052), (192, 29211), (237, 29391), (244, 29415), (269, 29505), (271, 29511), (283, 29547), (295, 29586), (298, 29595), (306, 29628), (316, 29667), (334, 29712), (351, 29763), (361, 29814), (363, 29823), (380, 29892), (410, 29967), (426, 30012), (429, 30027), (469, 30162), (492, 30216), (499, 30237), (509, 30270), (530, 30315), (551, 30369), (563, 30396), (583, 30453), (590, 30474), (614, 30516), (625, 30555), (642, 30615), (728, 30855), (736, 30888), (737, 30891), (751, 30924), (756, 30930), (789, 30993),

Gene: Jbug01_30 Start: 27976, Stop: 30231, Start Num: 37
Candidate Starts for Jbug01_30:
(Start: 37 @27976 has 342 MA's), (74, 28072), (98, 28150), (104, 28177), (143, 28276), (192, 28435), (237, 28615), (244, 28639), (271, 28735), (283, 28771), (295, 28810), (298, 28819), (306, 28852), (316, 28891), (334, 28936), (351, 28987), (363, 29047), (380, 29116), (410, 29191), (426, 29236), (429, 29251), (469, 29386), (492, 29440), (499, 29461), (509, 29494), (530, 29539), (551, 29593), (563, 29620), (583, 29677), (590, 29698), (614, 29740), (625, 29779), (642, 29839), (728, 30079), (737, 30115), (751, 30148), (789, 30217),

Gene: Jellybones_30 Start: 35122, Stop: 37119, Start Num: 6
Candidate Starts for Jellybones_30:
(Start: 6 @35122 has 35 MA's), (Start: 20 @35197 has 4 MA's), (32, 35236), (45, 35266), (54, 35293), (56, 35296), (179, 35671), (181, 35680), (229, 35872), (249, 35950), (264, 35992), (269, 36007), (306, 36127), (353, 36280), (380, 36415), (394, 36448), (415, 36514), (425, 36550), (433, 36586), (457, 36676), (464, 36706), (547, 36910), (551, 36928), (553, 36934), (578, 36994), (601, 37051),

Gene: Jesabah_31 Start: 28484, Stop: 30739, Start Num: 37
Candidate Starts for Jesabah_31:
(Start: 37 @28484 has 342 MA's), (74, 28580), (98, 28658), (104, 28685), (143, 28784), (192, 28943), (237, 29123), (244, 29147), (269, 29237), (271, 29243), (283, 29279), (295, 29318), (298, 29327), (306, 29360), (316, 29399), (334, 29444), (351, 29495), (361, 29546), (363, 29555), (380, 29624), (410, 29699), (426, 29744), (429, 29759), (469, 29894), (492, 29948), (499, 29969), (509, 30002), (530, 30047), (551, 30101), (563, 30128), (583, 30185), (590, 30206), (614, 30248), (625, 30287), (642, 30347), (728, 30587), (736, 30620), (737, 30623), (751, 30656), (756, 30662), (789, 30725),

Gene: Jillium_30 Start: 28475, Stop: 30730, Start Num: 37
Candidate Starts for Jillium_30:
(Start: 37 @28475 has 342 MA's), (74, 28571), (98, 28649), (104, 28676), (143, 28775), (192, 28934), (237, 29114), (244, 29138), (269, 29228), (271, 29234), (283, 29270), (295, 29309), (298, 29318), (306, 29351), (316, 29390), (334, 29435), (351, 29486), (361, 29537), (363, 29546), (380, 29615), (410, 29690), (426, 29735), (429, 29750), (469, 29885), (492, 29939), (499, 29960), (509, 29993), (530, 30038), (551, 30092), (563, 30119), (583, 30176), (590, 30197), (614, 30239), (625, 30278), (642, 30338), (728, 30578), (736, 30611), (737, 30614), (751, 30647), (756, 30653), (789, 30716),

Gene: Jiminy_30 Start: 28319, Stop: 30574, Start Num: 37
Candidate Starts for Jiminy_30:
(Start: 37 @28319 has 342 MA's), (74, 28415), (98, 28493), (104, 28520), (143, 28619), (192, 28778), (237, 28958), (244, 28982), (271, 29078), (283, 29114), (295, 29153), (298, 29162), (306, 29195), (316, 29234), (334, 29279), (351, 29330), (363, 29390), (380, 29459), (410, 29534), (426, 29579), (429, 29594), (469, 29729), (492, 29783), (499, 29804), (509, 29837), (530, 29882), (551, 29936), (563, 29963), (583, 30020), (590, 30041), (614, 30083), (625, 30122), (642, 30182), (728, 30422), (736, 30455), (737, 30458), (751, 30491), (789, 30560),

Gene: Jiraiya_30 Start: 28472, Stop: 30727, Start Num: 37
Candidate Starts for Jiraiya_30:
(Start: 37 @28472 has 342 MA's), (74, 28568), (98, 28646), (104, 28673), (143, 28772), (192, 28931), (237, 29111), (244, 29135), (269, 29225), (271, 29231), (283, 29267), (295, 29306), (298, 29315), (306, 29348), (316, 29387), (334, 29432), (351, 29483), (361, 29534), (363, 29543), (380, 29612), (410, 29687), (426, 29732), (429, 29747), (469, 29882), (492, 29936), (499, 29957), (509, 29990), (530, 30035), (551, 30089), (563, 30116), (583, 30173), (590, 30194), (614, 30236), (625, 30275), (642, 30335), (728, 30575), (737, 30611), (751, 30644), (789, 30713),

Gene: Jobypre_21 Start: 19724, Stop: 22237, Start Num: 18
Candidate Starts for Jobypre_21:
(Start: 18 @19724 has 19 MA's), (41, 19787), (68, 19859), (98, 19949), (101, 19955), (127, 20027), (150, 20114), (189, 20219), (192, 20231), (196, 20249), (204, 20288), (212, 20318), (228, 20375), (235, 20405), (237, 20411), (250, 20465), (253, 20471), (294, 20618), (295, 20621), (298, 20630), (303, 20648), (318, 20708), (321, 20717), (325, 20729), (343, 20780), (345, 20783), (386, 20948), (407, 21005), (438, 21089), (444, 21107), (447, 21116), (468, 21179), (514, 21299), (529, 21323), (538, 21344), (544, 21359), (550, 21377), (559, 21407), (589, 21497), (622, 21566), (630, 21599), (636, 21620), (648, 21656), (661, 21692), (675, 21737), (682, 21761), (685, 21767), (689, 21782), (694, 21800), (728, 21887), (733, 21911), (744, 21947), (747, 21953), (760, 21977), (797, 22052), (799, 22055), (832, 22142), (834, 22151), (835, 22157),

Gene: John316_30 Start: 35078, Stop: 37075, Start Num: 6
Candidate Starts for John316_30:
(Start: 6 @35078 has 35 MA's), (32, 35192), (45, 35222), (54, 35249), (179, 35627), (229, 35828), (264, 35948), (288, 36017), (308, 36101), (380, 36371), (394, 36404), (425, 36506), (451, 36599), (457, 36632), (464, 36662), (511, 36773), (536, 36839), (542, 36851), (551, 36884), (553, 36890), (578, 36950),

Gene: Jormungandr_27 Start: 35321, Stop: 37345, Start Num: 6
Candidate Starts for Jormungandr_27:
(Start: 6 @35321 has 35 MA's), (14, 35369), (23, 35405), (26, 35423), (30, 35432), (44, 35462), (45, 35465), (84, 35576), (122, 35696), (257, 36173), (261, 36182), (294, 36281), (306, 36326), (327, 36392), (353, 36479), (380, 36614), (394, 36647), (479, 36959), (506, 37025), (509, 37037), (541, 37118), (551, 37154), (553, 37160), (566, 37187), (578, 37220), (617, 37316),

Gene: JoyceMaria_28 Start: 28968, Stop: 31265, Start Num: 37
Candidate Starts for JoyceMaria_28:
(Start: 1 @28281 has 1 MA's), (2, 28428), (Start: 37 @28968 has 342 MA's), (74, 29067), (79, 29085), (118, 29208), (143, 29271), (167, 29352), (189, 29418), (218, 29535), (228, 29574), (241, 29625), (244, 29634), (258, 29691), (265, 29715), (266, 29718), (283, 29781), (296, 29823), (300, 29835), (335, 29958), (346, 29982), (360, 30045), (392, 30156), (399, 30177), (410, 30213), (417, 30234), (436, 30300), (440, 30312), (453, 30363), (457, 30366), (460, 30384), (468, 30408), (476, 30435), (492, 30468), (499, 30489), (509, 30522), (530, 30567), (585, 30708), (586, 30711), (588, 30714), (590, 30723), (626, 30807), (664, 30921), (672, 30942), (682, 30966), (703, 31029), (710, 31059), (713, 31065), (728, 31113), (736, 31146), (737, 31149), (789, 31251), (790, 31254),

Gene: Jubie_21 Start: 19725, Stop: 22238, Start Num: 18
Candidate Starts for Jubie_21:
(Start: 18 @19725 has 19 MA's), (41, 19788), (68, 19860), (98, 19950), (101, 19956), (127, 20028), (150, 20115), (189, 20220), (192, 20232), (196, 20250), (204, 20289), (212, 20319), (228, 20376), (235, 20406), (237, 20412), (250, 20466), (253, 20472), (294, 20619), (295, 20622), (298, 20631), (303, 20649), (318, 20709), (321, 20718), (325, 20730), (343, 20781), (345, 20784), (386, 20949), (407, 21006), (438, 21090), (444, 21108), (447, 21117), (468, 21180), (514, 21300), (529, 21324),

(538, 21345), (544, 21360), (550, 21378), (559, 21408), (589, 21498), (622, 21567), (630, 21600), (636, 21621), (648, 21657), (661, 21693), (675, 21738), (682, 21762), (685, 21768), (689, 21783), (694, 21801), (728, 21888), (733, 21912), (744, 21948), (747, 21954), (760, 21978), (797, 22053), (799, 22056), (832, 22143), (834, 22152), (835, 22158),

Gene: KLucky39_31 Start: 28763, Stop: 31018, Start Num: 37
Candidate Starts for KLucky39_31:
(Start: 37 @28763 has 342 MA's), (74, 28859), (98, 28937), (104, 28964), (143, 29063), (192, 29222), (237, 29402), (244, 29426), (269, 29516), (271, 29522), (283, 29558), (295, 29597), (298, 29606), (306, 29639), (316, 29678), (334, 29723), (351, 29774), (361, 29825), (363, 29834), (380, 29903), (410, 29978), (426, 30023), (429, 30038), (469, 30173), (492, 30227), (499, 30248), (509, 30281), (530, 30326), (551, 30380), (563, 30407), (583, 30464), (590, 30485), (614, 30527), (625, 30566), (642, 30626), (728, 30866), (736, 30899), (737, 30902), (751, 30935), (756, 30941), (789, 31004),

Gene: Kabluna_46 Start: 32323, Stop: 34881, Start Num: 78
Candidate Starts for Kabluna_46:
(Start: 78 @32323 has 15 MA's), (120, 32452), (223, 32791), (224, 32794), (238, 32851), (287, 33004), (306, 33070), (307, 33085), (443, 33526), (574, 33904), (614, 34009), (620, 34027), (628, 34060), (634, 34081), (650, 34135), (686, 34240), (693, 34267), (696, 34273), (724, 34363), (754, 34459), (756, 34462), (787, 34525), (803, 34558), (819, 34606), (830, 34639), (835, 34660), (852, 34747), (856, 34762), (864, 34873),

Gene: Kahve_30 Start: 28479, Stop: 30734, Start Num: 37
Candidate Starts for Kahve_30:
(Start: 37 @28479 has 342 MA's), (74, 28575), (98, 28653), (104, 28680), (143, 28779), (192, 28938), (237, 29118), (244, 29142), (269, 29232), (271, 29238), (283, 29274), (295, 29313), (298, 29322), (306, 29355), (316, 29394), (334, 29439), (351, 29490), (361, 29541), (363, 29550), (380, 29619), (410, 29694), (426, 29739), (429, 29754), (469, 29889), (492, 29943), (499, 29964), (509, 29997), (530, 30042), (551, 30096), (563, 30123), (583, 30180), (590, 30201), (614, 30243), (625, 30282), (642, 30342), (728, 30582), (736, 30615), (737, 30618), (751, 30651), (756, 30657), (789, 30720),

Gene: Kailash_31 Start: 28817, Stop: 31072, Start Num: 37
Candidate Starts for Kailash_31:
(Start: 37 @28817 has 342 MA's), (74, 28913), (98, 28991), (104, 29018), (143, 29117), (192, 29276), (237, 29456), (244, 29480), (269, 29570), (271, 29576), (283, 29612), (295, 29651), (298, 29660), (306, 29693), (316, 29732), (334, 29777), (351, 29828), (361, 29879), (363, 29888), (380, 29957), (410, 30032), (426, 30077), (429, 30092), (469, 30227), (492, 30281), (499, 30302), (509, 30335), (530, 30380), (551, 30434), (563, 30461), (583, 30518), (590, 30539), (614, 30581), (625, 30620), (642, 30680), (728, 30920), (736, 30953), (737, 30956), (751, 30989), (756, 30995), (789, 31058),

Gene: Kamiyu_31 Start: 28582, Stop: 30807, Start Num: 28
Candidate Starts for Kamiyu_31:
(Start: 28 @28582 has 52 MA's), (Start: 40 @28597 has 1 MA's), (59, 28642), (79, 28699), (105, 28777), (135, 28846), (143, 28858), (158, 28900), (169, 28936), (179, 28963), (183, 28975), (190, 29002), (211, 29092), (229, 29164), (252, 29248), (286, 29356), (291, 29377), (316, 29470), (323, 29485), (360, 29614), (380, 29695), (410, 29770), (425, 29812), (426, 29818), (453, 29917), (469, 29968), (473, 29980), (492, 30022), (499, 30043), (521, 30097), (530, 30121), (546, 30157), (583, 30253), (586, 30262), (614, 30316), (645, 30424), (656, 30451), (672, 30493), (701, 30565), (728, 30655), (737, 30691),

Gene: KarasumaRum_32 Start: 29124, Stop: 31391, Start Num: 37
Candidate Starts for KarasumaRum_32:

(Start: 37 @29124 has 342 MA's), (56, 29172), (67, 29202), (74, 29220), (85, 29256), (90, 29277), (97, 29295), (118, 29358), (151, 29463), (192, 29586), (194, 29592), (218, 29691), (245, 29793), (258, 29847), (295, 29967), (300, 29982), (306, 30009), (361, 30195), (368, 30231), (380, 30273), (410, 30348), (426, 30399), (436, 30435), (453, 30498), (461, 30522), (469, 30549), (521, 30678), (530, 30702), (583, 30837), (586, 30846), (590, 30858), (614, 30900), (625, 30939), (626, 30942), (641, 30996), (645, 31008), (658, 31038), (664, 31056), (689, 31122), (728, 31239), (789, 31377),

Gene: Karn_30 Start: 28479, Stop: 30734, Start Num: 37
Candidate Starts for Karn_30:
(Start: 37 @28479 has 342 MA's), (74, 28575), (98, 28653), (104, 28680), (143, 28779), (192, 28938), (237, 29118), (244, 29142), (269, 29232), (271, 29238), (283, 29274), (295, 29313), (298, 29322), (306, 29355), (316, 29394), (334, 29439), (351, 29490), (361, 29541), (363, 29550), (380, 29619), (410, 29694), (426, 29739), (429, 29754), (469, 29889), (492, 29943), (499, 29964), (509, 29997), (530, 30042), (551, 30096), (563, 30123), (583, 30180), (590, 30201), (614, 30243), (625, 30282), (642, 30342), (728, 30582), (737, 30618), (751, 30651), (789, 30720),

Gene: Kaseim_27 Start: 34753, Stop: 36774, Start Num: 6
Candidate Starts for Kaseim_27:
(Start: 6 @34753 has 35 MA's), (14, 34801), (23, 34837), (26, 34855), (30, 34864), (44, 34894), (45, 34897), (84, 35008), (122, 35128), (257, 35605), (261, 35614), (294, 35713), (306, 35758), (327, 35824), (353, 35911), (380, 36046), (394, 36079), (455, 36304), (457, 36310), (509, 36469), (551, 36586), (553, 36592), (566, 36619), (578, 36652), (617, 36748),

Gene: Katniss_31 Start: 28778, Stop: 31033, Start Num: 37
Candidate Starts for Katniss_31:
(Start: 37 @28778 has 342 MA's), (74, 28874), (98, 28952), (104, 28979), (143, 29078), (192, 29237), (237, 29417), (244, 29441), (269, 29531), (271, 29537), (283, 29573), (295, 29612), (298, 29621), (306, 29654), (316, 29693), (334, 29738), (351, 29789), (361, 29840), (363, 29849), (380, 29918), (410, 29993), (426, 30038), (429, 30053), (469, 30188), (492, 30242), (499, 30263), (509, 30296), (530, 30341), (551, 30395), (583, 30479), (590, 30500), (614, 30542), (625, 30581), (642, 30641), (728, 30881), (736, 30914), (737, 30917), (751, 30950), (756, 30956), (789, 31019),

Gene: Keitherie_31 Start: 28810, Stop: 31071, Start Num: 37
Candidate Starts for Keitherie_31:
(Start: 37 @28810 has 342 MA's), (74, 28906), (98, 28984), (104, 29011), (133, 29086), (143, 29116), (192, 29275), (237, 29455), (244, 29479), (271, 29575), (283, 29611), (295, 29650), (298, 29659), (306, 29692), (316, 29731), (334, 29776), (351, 29827), (363, 29887), (380, 29956), (410, 30031), (426, 30076), (429, 30091), (469, 30226), (492, 30280), (499, 30301), (509, 30334), (530, 30379), (551, 30433), (563, 30460), (583, 30517), (590, 30538), (614, 30580), (625, 30619), (642, 30679), (728, 30919), (737, 30955), (751, 30988), (789, 31057),

Gene: Keshu_26 Start: 21307, Stop: 23655, Start Num: 24
Candidate Starts for Keshu_26:
(Start: 24 @21307 has 60 MA's), (Start: 36 @21334 has 1 MA's), (48, 21367), (64, 21412), (188, 21676), (189, 21682), (192, 21694), (233, 21856), (269, 21976), (273, 21988), (288, 22042), (292, 22057), (294, 22063), (306, 22108), (307, 22123), (317, 22150), (323, 22165), (364, 22282), (374, 22330), (377, 22339), (390, 22372), (398, 22384), (406, 22417), (408, 22420), (417, 22444), (428, 22486), (436, 22507), (445, 22528), (448, 22537), (514, 22723), (548, 22792), (568, 22852), (584, 22900), (622, 22981), (630, 23014), (670, 23143), (678, 23158), (692, 23203), (693, 23212), (706, 23233), (721, 23278), (722, 23284), (730, 23311), (735, 23332), (750, 23374), (774, 23416), (788, 23446), (833, 23545), (834, 23551), (843, 23587),

Gene: Keziacharles14_31 Start: 22419, Stop: 24875, Start Num: 20

Candidate Starts for Keziacharles14_31:
(Start: 20 @22419 has 4 MA's), (58, 22524), (124, 22692), (205, 22947), (222, 23004), (247, 23106), (259, 23148), (313, 23337), (314, 23340), (320, 23355), (333, 23394), (350, 23439), (358, 23475), (428, 23700), (435, 23718), (519, 23940), (523, 23946), (538, 23979), (568, 24081), (619, 24198), (630, 24243), (649, 24303), (669, 24369), (676, 24384), (679, 24387), (685, 24408), (689, 24423), (692, 24429), (744, 24588), (777, 24648), (835, 24795),

Gene: Khan1_30 Start: 28499, Stop: 30754, Start Num: 37
Candidate Starts for Khan1_30:
(Start: 37 @28499 has 342 MA's), (74, 28595), (98, 28673), (104, 28700), (143, 28799), (192, 28958), (237, 29138), (244, 29162), (271, 29258), (283, 29294), (295, 29333), (298, 29342), (306, 29375), (316, 29414), (334, 29459), (351, 29510), (361, 29561), (363, 29570), (380, 29639), (410, 29714), (426, 29759), (429, 29774), (469, 29909), (492, 29963), (499, 29984), (509, 30017), (530, 30062), (551, 30116), (563, 30143), (583, 30200), (590, 30221), (614, 30263), (625, 30302), (642, 30362), (728, 30602), (737, 30638), (751, 30671), (789, 30740),

Gene: Kikipoo_31 Start: 28769, Stop: 31024, Start Num: 37
Candidate Starts for Kikipoo_31:
(Start: 37 @28769 has 342 MA's), (74, 28865), (98, 28943), (104, 28970), (143, 29069), (192, 29228), (237, 29408), (244, 29432), (269, 29522), (271, 29528), (283, 29564), (295, 29603), (298, 29612), (306, 29645), (316, 29684), (334, 29729), (351, 29780), (361, 29831), (363, 29840), (380, 29909), (410, 29984), (426, 30029), (429, 30044), (469, 30179), (492, 30233), (499, 30254), (509, 30287), (530, 30332), (551, 30386), (583, 30470), (590, 30491), (614, 30533), (625, 30572), (642, 30632), (728, 30872), (736, 30905), (737, 30908), (751, 30941), (756, 30947), (789, 31010),

Gene: KilKor_21 Start: 18926, Stop: 21559, Start Num: 9
Candidate Starts for KilKor_21:
(Start: 9 @18926 has 17 MA's), (11, 18935), (62, 19079), (157, 19352), (161, 19364), (170, 19385), (180, 19409), (200, 19484), (215, 19556), (224, 19586), (233, 19622), (247, 19685), (254, 19700), (262, 19727), (265, 19733), (288, 19808), (294, 19832), (296, 19838), (300, 19850), (307, 19892), (309, 19898), (337, 19985), (345, 20006), (352, 20030), (365, 20096), (368, 20117), (372, 20135), (382, 20168), (390, 20192), (392, 20195), (406, 20246), (444, 20351), (453, 20393), (507, 20558), (543, 20654), (568, 20732), (573, 20744), (610, 20834), (627, 20894), (630, 20903), (644, 20951), (645, 20960), (685, 21077), (700, 21122), (718, 21164), (735, 21230), (743, 21254), (768, 21302), (772, 21308), (776, 21314), (822, 21413), (825, 21422), (834, 21452), (855, 21542), (859, 21551),

Gene: Kimbrough_31 Start: 28471, Stop: 30726, Start Num: 37
Candidate Starts for Kimbrough_31:
(Start: 37 @28471 has 342 MA's), (74, 28567), (98, 28645), (104, 28672), (143, 28771), (192, 28930), (237, 29110), (244, 29134), (269, 29224), (271, 29230), (283, 29266), (295, 29305), (298, 29314), (306, 29347), (316, 29386), (334, 29431), (351, 29482), (361, 29533), (363, 29542), (380, 29611), (410, 29686), (426, 29731), (429, 29746), (469, 29881), (492, 29935), (499, 29956), (509, 29989), (530, 30034), (551, 30088), (563, 30115), (583, 30172), (590, 30193), (614, 30235), (625, 30274), (642, 30334), (728, 30574), (736, 30607), (737, 30610), (751, 30643), (756, 30649), (789, 30712),

Gene: KingCyrus_33 Start: 23177, Stop: 25654, Start Num: 21
Candidate Starts for KingCyrus_33:
(Start: 21 @23177 has 3 MA's), (25, 23198), (Start: 61 @23288 has 1 MA's), (64, 23297), (93, 23387), (108, 23435), (151, 23567), (218, 23786), (226, 23813), (237, 23855), (256, 23930), (296, 24071), (301, 24086), (310, 24137), (313, 24143), (350, 24245), (366, 24287), (424, 24455), (437, 24497), (444, 24518), (480, 24629), (483, 24632), (506, 24689), (538, 24755), (539, 24758), (544, 24770), (553, 24812), (555, 24821), (568, 24854), (587, 24911), (636, 25037), (647, 25073), (649, 25076), (703, 25226), (706, 25232), (723, 25286), (727, 25298), (729, 25307), (733, 25328), (753, 25382),

(810, 25496), (820, 25523), (821, 25526), (836, 25580), (847, 25607),

Gene: KingTut_22 Start: 24140, Stop: 26395, Start Num: 37
Candidate Starts for KingTut_22:
(Start: 37 @24140 has 342 MA's), (74, 24236), (98, 24314), (104, 24341), (143, 24440), (192, 24599), (237, 24779), (244, 24803), (271, 24899), (283, 24935), (295, 24974), (298, 24983), (306, 25016), (316, 25055), (334, 25100), (351, 25151), (361, 25202), (363, 25211), (380, 25280), (410, 25355), (426, 25400), (429, 25415), (469, 25550), (492, 25604), (499, 25625), (509, 25658), (530, 25703), (551, 25757), (563, 25784), (583, 25841), (590, 25862), (614, 25904), (625, 25943), (642, 26003), (728, 26243), (737, 26279), (751, 26312), (789, 26381),

Gene: KingVeVeVe_31 Start: 28744, Stop: 30999, Start Num: 37
Candidate Starts for KingVeVeVe_31:
(Start: 37 @28744 has 342 MA's), (74, 28840), (98, 28918), (104, 28945), (143, 29044), (192, 29203), (237, 29383), (244, 29407), (271, 29503), (283, 29539), (295, 29578), (298, 29587), (306, 29620), (316, 29659), (334, 29704), (351, 29755), (361, 29806), (363, 29815), (380, 29884), (410, 29959), (426, 30004), (429, 30019), (469, 30154), (492, 30208), (499, 30229), (509, 30262), (530, 30307), (551, 30361), (563, 30388), (583, 30445), (590, 30466), (614, 30508), (625, 30547), (642, 30607), (728, 30847), (737, 30883), (751, 30916), (789, 30985),

Gene: Kingsolomon_21 Start: 19724, Stop: 22237, Start Num: 18
Candidate Starts for Kingsolomon_21:
(Start: 18 @19724 has 19 MA's), (41, 19787), (68, 19859), (98, 19949), (101, 19955), (127, 20027), (150, 20114), (189, 20219), (192, 20231), (196, 20249), (204, 20288), (212, 20318), (228, 20375), (235, 20405), (237, 20411), (250, 20465), (253, 20471), (294, 20618), (295, 20621), (298, 20630), (303, 20648), (318, 20708), (321, 20717), (325, 20729), (343, 20780), (345, 20783), (386, 20948), (407, 21005), (438, 21089), (444, 21107), (447, 21116), (468, 21179), (514, 21299), (529, 21323), (538, 21344), (544, 21359), (550, 21377), (559, 21407), (589, 21497), (622, 21566), (630, 21599), (636, 21620), (648, 21656), (661, 21692), (675, 21737), (682, 21761), (685, 21767), (689, 21782), (694, 21800), (728, 21887), (733, 21911), (744, 21947), (747, 21953), (760, 21977), (797, 22052), (799, 22055), (832, 22142), (834, 22151), (835, 22157),

Gene: KirDoubleO7_19 Start: 19718, Stop: 22231, Start Num: 18
Candidate Starts for KirDoubleO7_19:
(Start: 18 @19718 has 19 MA's), (41, 19781), (68, 19853), (101, 19949), (127, 20021), (150, 20108), (189, 20213), (196, 20243), (204, 20282), (212, 20312), (228, 20369), (235, 20399), (237, 20405), (250, 20459), (253, 20465), (294, 20612), (295, 20615), (298, 20624), (303, 20642), (318, 20702), (325, 20723), (343, 20774), (345, 20777), (353, 20804), (386, 20942), (407, 20999), (438, 21083), (444, 21101), (447, 21110), (468, 21173), (496, 21239), (514, 21293), (538, 21338), (544, 21353), (559, 21401), (589, 21491), (596, 21509), (620, 21554), (622, 21560), (630, 21593), (635, 21611), (648, 21650), (661, 21686), (675, 21731), (682, 21755), (689, 21776), (694, 21794), (709, 21827), (733, 21905), (744, 21941), (760, 21971), (797, 22046), (812, 22082), (834, 22145), (835, 22151),

Gene: Kiwot_30 Start: 28325, Stop: 30580, Start Num: 37
Candidate Starts for Kiwot_30:
(Start: 37 @28325 has 342 MA's), (74, 28421), (98, 28499), (104, 28526), (143, 28625), (192, 28784), (237, 28964), (244, 28988), (271, 29084), (283, 29120), (295, 29159), (298, 29168), (306, 29201), (316, 29240), (334, 29285), (351, 29336), (363, 29396), (380, 29465), (410, 29540), (426, 29585), (429, 29600), (469, 29735), (492, 29789), (499, 29810), (509, 29843), (530, 29888), (551, 29942), (563, 29969), (583, 30026), (590, 30047), (614, 30089), (625, 30128), (642, 30188), (728, 30428), (737, 30464), (751, 30497), (789, 30566),

Gene: KlimbOn_31 Start: 28757, Stop: 31012, Start Num: 37

Candidate Starts for KlimbOn_31:
(Start: 37 @28757 has 342 MA's), (74, 28853), (98, 28931), (104, 28958), (143, 29057), (192, 29216), (237, 29396), (244, 29420), (271, 29516), (283, 29552), (295, 29591), (298, 29600), (306, 29633), (316, 29672), (334, 29717), (351, 29768), (361, 29819), (363, 29828), (380, 29897), (410, 29972), (426, 30017), (429, 30032), (469, 30167), (492, 30221), (499, 30242), (509, 30275), (530, 30320), (551, 30374), (563, 30401), (583, 30458), (590, 30479), (614, 30521), (625, 30560), (642, 30620), (728, 30860), (737, 30896), (751, 30929), (789, 30998),

Gene: Kloppinator_31 Start: 28780, Stop: 31035, Start Num: 37
Candidate Starts for Kloppinator_31:
(Start: 37 @28780 has 342 MA's), (74, 28876), (98, 28954), (104, 28981), (143, 29080), (192, 29239), (237, 29419), (244, 29443), (269, 29533), (271, 29539), (283, 29575), (295, 29614), (298, 29623), (306, 29656), (316, 29695), (334, 29740), (351, 29791), (361, 29842), (363, 29851), (380, 29920), (410, 29995), (426, 30040), (429, 30055), (469, 30190), (492, 30244), (499, 30265), (509, 30298), (530, 30343), (551, 30397), (583, 30481), (590, 30502), (614, 30544), (625, 30583), (642, 30643), (728, 30883), (736, 30916), (737, 30919), (751, 30952), (756, 30958), (789, 31021),

Gene: Knocker_32 Start: 31412, Stop: 33868, Start Num: 37
Candidate Starts for Knocker_32:
(Start: 37 @31412 has 342 MA's), (42, 31421), (67, 31490), (79, 31526), (113, 31628), (143, 31715), (147, 31736), (155, 31763), (159, 31772), (175, 31823), (176, 31826), (181, 31838), (185, 31847), (241, 32075), (247, 32105), (249, 32111), (259, 32144), (282, 32210), (290, 32237), (298, 32264), (300, 32270), (306, 32297), (351, 32432), (355, 32450), (360, 32480), (368, 32519), (374, 32546), (398, 32603), (399, 32606), (424, 32693), (427, 32711), (434, 32735), (439, 32744), (493, 32906), (495, 32909), (516, 32972), (518, 32975), (525, 32987), (534, 33017), (540, 33032), (548, 33053), (551, 33065), (571, 33122), (577, 33140), (603, 33194), (614, 33224), (615, 33227), (621, 33245), (622, 33248), (626, 33269), (636, 33302), (640, 33317), (658, 33371), (666, 33392), (668, 33395), (680, 33425), (681, 33437), (689, 33464), (691, 33467), (699, 33488), (717, 33545), (723, 33569), (746, 33641), (785, 33707), (796, 33734), (798, 33737), (802, 33743), (818, 33791), (825, 33812), (835, 33848),

Gene: Kraw_28 Start: 22196, Stop: 24505, Start Num: 66
Candidate Starts for Kraw_28:
(Start: 66 @22196 has 18 MA's), (102, 22286), (106, 22307), (143, 22331), (185, 22448), (214, 22577), (230, 22637), (248, 22709), (252, 22718), (269, 22769), (271, 22775), (274, 22784), (288, 22835), (291, 22847), (296, 22862), (298, 22868), (306, 22901), (319, 22949), (344, 23003), (364, 23075), (372, 23114), (375, 23126), (382, 23141), (400, 23186), (421, 23255), (449, 23336), (502, 23489), (521, 23531), (560, 23660), (574, 23705), (596, 23771), (607, 23786), (636, 23882), (685, 24035), (689, 24050), (692, 24056), (698, 24080), (701, 24086), (703, 24092), (704, 24095), (712, 24119), (718, 24131), (744, 24227), (772, 24278), (774, 24281), (805, 24350), (824, 24386), (834, 24419), (854, 24482), (859, 24497),

Gene: Kronus_30 Start: 29196, Stop: 31421, Start Num: 28
Candidate Starts for Kronus_30:
(Start: 28 @29196 has 52 MA's), (59, 29256), (79, 29313), (135, 29460), (143, 29472), (158, 29514), (169, 29550), (179, 29577), (183, 29589), (190, 29616), (211, 29706), (229, 29778), (252, 29862), (286, 29970), (291, 29991), (316, 30084), (323, 30099), (360, 30228), (380, 30309), (410, 30384), (425, 30426), (426, 30432), (436, 30468), (469, 30582), (473, 30594), (492, 30636), (499, 30657), (521, 30711), (530, 30735), (546, 30771), (583, 30867), (586, 30876), (614, 30930), (645, 31038), (656, 31065), (672, 31107), (701, 31179), (728, 31269), (737, 31305),

Gene: Krueger_26 Start: 20014, Stop: 22350, Start Num: 24
Candidate Starts for Krueger_26:

(16, 19981), (Start: 24 @20014 has 60 MA's), (26, 20023), (47, 20071), (48, 20074), (93, 20203), (144, 20254), (181, 20350), (185, 20359), (204, 20449), (214, 20488), (233, 20560), (235, 20569), (262, 20662), (288, 20743), (296, 20773), (306, 20812), (307, 20827), (317, 20851), (344, 20911), (357, 20956), (364, 20983), (372, 21022), (377, 21040), (382, 21049), (406, 21118), (408, 21121), (416, 21139), (428, 21181), (436, 21202), (442, 21217), (448, 21232), (476, 21319), (512, 21412), (514, 21415), (548, 21487), (562, 21535), (591, 21616), (610, 21640), (618, 21664), (620, 21670), (630, 21709), (692, 21898), (721, 21973), (735, 22027), (774, 22111), (782, 22129), (822, 22216), (833, 22240), (843, 22282), (860, 22342),

Gene: Krypton555_21 Start: 19647, Stop: 22160, Start Num: 18
Candidate Starts for Krypton555_21:
(Start: 18 @19647 has 19 MA's), (41, 19710), (68, 19782), (136, 19980), (185, 20124), (189, 20142), (192, 20154), (196, 20172), (204, 20211), (209, 20226), (212, 20241), (228, 20298), (235, 20328), (237, 20334), (250, 20388), (253, 20394), (268, 20451), (294, 20541), (295, 20544), (298, 20553), (303, 20571), (318, 20631), (343, 20703), (345, 20706), (378, 20850), (386, 20871), (407, 20928), (438, 21012), (444, 21030), (447, 21039), (514, 21222), (538, 21267), (544, 21282), (550, 21300), (559, 21330), (580, 21390), (589, 21420), (622, 21489), (630, 21522), (636, 21543), (648, 21579), (659, 21609), (682, 21684), (685, 21690), (689, 21705), (694, 21723), (709, 21756), (727, 21807), (728, 21810), (734, 21837), (744, 21870), (760, 21900), (797, 21975), (812, 22011), (834, 22074), (835, 22080), (859, 22152),

Gene: Kwadwo_30 Start: 28461, Stop: 30716, Start Num: 37
Candidate Starts for Kwadwo_30:
(Start: 37 @28461 has 342 MA's), (74, 28557), (98, 28635), (104, 28662), (143, 28761), (192, 28920), (237, 29100), (244, 29124), (269, 29214), (271, 29220), (283, 29256), (295, 29295), (298, 29304), (306, 29337), (316, 29376), (334, 29421), (351, 29472), (361, 29523), (363, 29532), (380, 29601), (410, 29676), (426, 29721), (429, 29736), (469, 29871), (492, 29925), (499, 29946), (509, 29979), (530, 30024), (551, 30078), (563, 30105), (583, 30162), (590, 30183), (614, 30225), (625, 30264), (642, 30324), (728, 30564), (736, 30597), (737, 30600), (751, 30633), (756, 30639), (789, 30702),

Gene: Kwksand96_30 Start: 28329, Stop: 30584, Start Num: 37
Candidate Starts for Kwksand96_30:
(Start: 37 @28329 has 342 MA's), (74, 28425), (98, 28503), (104, 28530), (143, 28629), (192, 28788), (237, 28968), (244, 28992), (271, 29088), (283, 29124), (295, 29163), (298, 29172), (306, 29205), (316, 29244), (334, 29289), (351, 29340), (361, 29391), (363, 29400), (380, 29469), (410, 29544), (426, 29589), (429, 29604), (469, 29739), (492, 29793), (499, 29814), (509, 29847), (530, 29892), (551, 29946), (563, 29973), (583, 30030), (590, 30051), (614, 30093), (625, 30132), (642, 30192), (728, 30432), (737, 30468), (751, 30501), (789, 30570),

Gene: Labeouficaum_30 Start: 28325, Stop: 30580, Start Num: 37
Candidate Starts for Labeouficaum_30:
(Start: 37 @28325 has 342 MA's), (74, 28421), (98, 28499), (104, 28526), (143, 28625), (192, 28784), (237, 28964), (244, 28988), (271, 29084), (283, 29120), (295, 29159), (298, 29168), (306, 29201), (316, 29240), (334, 29285), (351, 29336), (363, 29396), (380, 29465), (410, 29540), (426, 29585), (429, 29600), (469, 29735), (492, 29789), (499, 29810), (509, 29843), (530, 29888), (551, 29942), (563, 29969), (583, 30026), (590, 30047), (614, 30089), (625, 30128), (642, 30188), (728, 30428), (736, 30461), (737, 30464), (751, 30497), (789, 30566),

Gene: Lahirium_27 Start: 35843, Stop: 37867, Start Num: 6
Candidate Starts for Lahirium_27:
(Start: 6 @35843 has 35 MA's), (14, 35891), (23, 35927), (26, 35945), (30, 35954), (44, 35984), (45, 35987), (84, 36098), (122, 36218), (257, 36695), (261, 36704), (294, 36803), (306, 36848), (327, 36914), (353, 37001), (380, 37136), (394, 37169), (479, 37481), (506, 37547), (509, 37559), (541,

37640), (551, 37676), (553, 37682), (566, 37709), (578, 37742), (617, 37838),

Gene: Lambano_27 Start: 27953, Stop: 30250, Start Num: 37
Candidate Starts for Lambano_27:
(Start: 37 @27953 has 342 MA's), (74, 28052), (104, 28157), (118, 28193), (143, 28256), (167, 28337), (189, 28403), (192, 28415), (218, 28520), (228, 28559), (241, 28610), (244, 28619), (265, 28700), (266, 28703), (283, 28766), (296, 28808), (300, 28820), (335, 28943), (346, 28967), (360, 29030), (367, 29060), (368, 29069), (392, 29141), (399, 29162), (410, 29198), (417, 29219), (436, 29285), (440, 29297), (453, 29348), (457, 29351), (460, 29369), (468, 29393), (476, 29420), (492, 29453), (499, 29474), (509, 29507), (530, 29552), (585, 29693), (586, 29696), (590, 29708), (626, 29792), (672, 29927), (682, 29951), (703, 30014), (710, 30044), (713, 30050), (728, 30098), (736, 30131), (737, 30134), (789, 30236), (790, 30239),

Gene: Lambo_30 Start: 26783, Stop: 28762, Start Num: 5
Candidate Starts for Lambo_30:
(Start: 5 @26783 has 38 MA's), (29, 26897), (34, 26906), (39, 26915), (41, 26918), (45, 26927), (73, 26996), (94, 27059), (96, 27062), (113, 27101), (119, 27122), (136, 27176), (192, 27353), (209, 27428), (244, 27560), (251, 27587), (252, 27590), (254, 27593), (283, 27680), (298, 27728), (300, 27734), (306, 27761), (331, 27839), (344, 27890), (380, 28049), (394, 28082), (425, 28184), (433, 28220), (536, 28526), (551, 28571), (553, 28577), (578, 28637), (611, 28712),

Gene: Larson_32 Start: 28808, Stop: 31069, Start Num: 37
Candidate Starts for Larson_32:
(Start: 37 @28808 has 342 MA's), (74, 28904), (98, 28982), (104, 29009), (133, 29084), (143, 29114), (192, 29273), (237, 29453), (244, 29477), (271, 29573), (283, 29609), (295, 29648), (298, 29657), (306, 29690), (316, 29729), (334, 29774), (351, 29825), (363, 29885), (380, 29954), (410, 30029), (426, 30074), (429, 30089), (469, 30224), (492, 30278), (499, 30299), (509, 30332), (530, 30377), (551, 30431), (563, 30458), (583, 30515), (590, 30536), (614, 30578), (625, 30617), (642, 30677), (728, 30917), (737, 30953), (751, 30986), (789, 31055),

Gene: LasagnaCat_31 Start: 28763, Stop: 31018, Start Num: 37
Candidate Starts for LasagnaCat_31:
(Start: 37 @28763 has 342 MA's), (74, 28859), (98, 28937), (104, 28964), (143, 29063), (192, 29222), (237, 29402), (244, 29426), (269, 29516), (271, 29522), (283, 29558), (295, 29597), (298, 29606), (306, 29639), (316, 29678), (334, 29723), (351, 29774), (361, 29825), (363, 29834), (380, 29903), (410, 29978), (426, 30023), (429, 30038), (469, 30173), (492, 30227), (499, 30248), (509, 30281), (530, 30326), (551, 30380), (563, 30407), (583, 30464), (590, 30485), (614, 30527), (625, 30566), (642, 30626), (728, 30866), (736, 30899), (737, 30902), (751, 30935), (756, 30941), (789, 31004),

Gene: Lasso_31 Start: 28736, Stop: 30991, Start Num: 37
Candidate Starts for Lasso_31:
(Start: 37 @28736 has 342 MA's), (74, 28832), (98, 28910), (104, 28937), (143, 29036), (192, 29195), (237, 29375), (244, 29399), (269, 29489), (271, 29495), (283, 29531), (295, 29570), (298, 29579), (306, 29612), (316, 29651), (334, 29696), (351, 29747), (361, 29798), (363, 29807), (380, 29876), (410, 29951), (426, 29996), (429, 30011), (469, 30146), (492, 30200), (499, 30221), (509, 30254), (530, 30299), (551, 30353), (563, 30380), (583, 30437), (590, 30458), (614, 30500), (625, 30539), (642, 30599), (728, 30839), (737, 30875), (751, 30908), (789, 30977),

Gene: LastHope_27 Start: 20175, Stop: 22487, Start Num: 66
Candidate Starts for LastHope_27:
(Start: 66 @20175 has 18 MA's), (148, 20325), (155, 20346), (178, 20403), (183, 20415), (198, 20469), (205, 20514), (218, 20556), (219, 20568), (232, 20613), (263, 20724), (271, 20745), (284, 20796), (289, 20811), (294, 20826), (316, 20907), (326, 20937), (344, 20976), (353, 20991), (363, 21051),

(388, 21135), (411, 21207), (517, 21510), (521, 21516), (542, 21570), (543, 21573), (547, 21585), (551, 21612), (557, 21630), (558, 21636), (596, 21753), (607, 21768), (685, 22017), (689, 22032), (698, 22062), (712, 22101), (718, 22113), (744, 22209), (759, 22239), (782, 22281), (791, 22302), (813, 22344), (824, 22368), (825, 22371), (833, 22395), (834, 22401), (854, 22464), (859, 22479),

Gene: LavAbarElk_28 Start: 25217, Stop: 27223, Start Num: 5
Candidate Starts for LavAbarElk_28:
(Start: 5 @25217 has 38 MA's), (29, 25331), (34, 25340), (39, 25349), (41, 25352), (45, 25361), (73, 25430), (192, 25793), (209, 25868), (244, 26000), (251, 26027), (252, 26030), (254, 26033), (283, 26120), (298, 26168), (300, 26174), (306, 26201), (331, 26279), (344, 26330), (380, 26489), (394, 26522), (419, 26603), (460, 26771), (468, 26795), (551, 27032), (553, 27038), (567, 27068), (578, 27101), (617, 27197),

Gene: Lavahound_25 Start: 20978, Stop: 23365, Start Num: 24
Candidate Starts for Lavahound_25:
(Start: 24 @20978 has 60 MA's), (Start: 37 @21008 has 342 MA's), (44, 21026), (76, 21110), (169, 21284), (204, 21416), (228, 21506), (238, 21548), (254, 21599), (271, 21641), (272, 21644), (288, 21701), (294, 21725), (296, 21731), (306, 21770), (323, 21827), (352, 21923), (377, 22040), (408, 22109), (424, 22148), (426, 22157), (431, 22178), (447, 22220), (542, 22457), (543, 22460), (544, 22463), (557, 22502), (574, 22556), (635, 22730), (644, 22760), (670, 22847), (674, 22853), (711, 22955), (743, 23060), (744, 23066), (769, 23114), (812, 23207), (823, 23231), (833, 23261), (857, 23339),

Gene: Lea83_26 Start: 21295, Stop: 23643, Start Num: 24
Candidate Starts for Lea83_26:
(Start: 24 @21295 has 60 MA's), (Start: 36 @21322 has 1 MA's), (48, 21355), (64, 21400), (172, 21619), (188, 21664), (196, 21700), (201, 21718), (221, 21796), (233, 21844), (273, 21976), (288, 22030), (292, 22045), (323, 22153), (364, 22270), (373, 22312), (374, 22318), (377, 22327), (382, 22336), (398, 22381), (408, 22417), (416, 22435), (428, 22477), (436, 22498), (445, 22519), (448, 22528), (476, 22615), (512, 22708), (514, 22711), (548, 22783), (620, 22966), (635, 23023), (668, 23122), (674, 23140), (692, 23194), (706, 23224), (709, 23239), (711, 23242), (716, 23251), (721, 23269), (722, 23275), (730, 23302), (735, 23323), (745, 23353), (770, 23398), (774, 23407), (833, 23536), (843, 23575), (844, 23578),

Gene: Lebo14_28 Start: 22289, Stop: 24595, Start Num: 66
Candidate Starts for Lebo14_28:
(Start: 66 @22289 has 18 MA's), (106, 22400), (143, 22424), (185, 22541), (214, 22670), (228, 22721), (230, 22730), (238, 22763), (248, 22802), (252, 22811), (271, 22868), (274, 22877), (288, 22928), (291, 22940), (296, 22955), (298, 22961), (306, 22994), (319, 23042), (344, 23096), (364, 23168), (372, 23207), (375, 23219), (382, 23234), (400, 23279), (421, 23348), (449, 23429), (502, 23582), (543, 23681), (547, 23693), (574, 23798), (596, 23864), (603, 23876), (607, 23879), (636, 23975), (685, 24128), (689, 24143), (692, 24149), (698, 24173), (712, 24212), (744, 24320), (774, 24374), (783, 24395), (790, 24410), (825, 24479), (834, 24509), (859, 24587),

Gene: LeeLot_31 Start: 28767, Stop: 31022, Start Num: 37
Candidate Starts for LeeLot_31:
(Start: 37 @28767 has 342 MA's), (74, 28863), (98, 28941), (104, 28968), (143, 29067), (192, 29226), (237, 29406), (244, 29430), (269, 29520), (271, 29526), (283, 29562), (295, 29601), (298, 29610), (306, 29643), (316, 29682), (334, 29727), (351, 29778), (361, 29829), (363, 29838), (380, 29907), (410, 29982), (426, 30027), (429, 30042), (469, 30177), (492, 30231), (499, 30252), (509, 30285), (530, 30330), (551, 30384), (563, 30411), (583, 30468), (590, 30489), (614, 30531), (625, 30570), (642, 30630), (728, 30870), (737, 30906), (751, 30939), (789, 31008),

Gene: Lego3393_31 Start: 28772, Stop: 31027, Start Num: 37
Candidate Starts for Lego3393_31:
(Start: 37 @28772 has 342 MA's), (74, 28868), (98, 28946), (104, 28973), (143, 29072), (192, 29231), (237, 29411), (244, 29435), (269, 29525), (271, 29531), (283, 29567), (295, 29606), (298, 29615), (306, 29648), (316, 29687), (334, 29732), (351, 29783), (361, 29834), (363, 29843), (380, 29912), (410, 29987), (426, 30032), (429, 30047), (469, 30182), (492, 30236), (499, 30257), (509, 30290), (530, 30335), (551, 30389), (563, 30416), (583, 30473), (590, 30494), (614, 30536), (625, 30575), (642, 30635), (728, 30875), (736, 30908), (737, 30911), (751, 30944), (756, 30950), (789, 31013),

Gene: Legolas_30 Start: 28477, Stop: 30732, Start Num: 37
Candidate Starts for Legolas_30:
(Start: 37 @28477 has 342 MA's), (74, 28573), (98, 28651), (104, 28678), (143, 28777), (192, 28936), (237, 29116), (244, 29140), (269, 29230), (271, 29236), (283, 29272), (295, 29311), (298, 29320), (306, 29353), (316, 29392), (334, 29437), (351, 29488), (361, 29539), (363, 29548), (380, 29617), (410, 29692), (426, 29737), (429, 29752), (469, 29887), (492, 29941), (499, 29962), (509, 29995), (530, 30040), (551, 30094), (563, 30121), (583, 30178), (590, 30199), (614, 30241), (625, 30280), (642, 30340), (728, 30580), (736, 30613), (737, 30616), (751, 30649), (756, 30655), (789, 30718),

Gene: Lehmann_31 Start: 28300, Stop: 30555, Start Num: 37
Candidate Starts for Lehmann_31:
(Start: 37 @28300 has 342 MA's), (74, 28396), (98, 28474), (104, 28501), (143, 28600), (237, 28939), (244, 28963), (269, 29053), (271, 29059), (283, 29095), (295, 29134), (306, 29176), (316, 29215), (334, 29260), (351, 29311), (361, 29362), (363, 29371), (380, 29440), (410, 29515), (426, 29560), (429, 29575), (469, 29710), (492, 29764), (499, 29785), (509, 29818), (530, 29863), (551, 29917), (583, 30001), (590, 30022), (614, 30064), (625, 30103), (642, 30163), (728, 30403), (736, 30436), (737, 30439), (751, 30472), (756, 30478), (789, 30541),

Gene: LeiMonet_31 Start: 28468, Stop: 30723, Start Num: 37
Candidate Starts for LeiMonet_31:
(Start: 37 @28468 has 342 MA's), (74, 28564), (98, 28642), (104, 28669), (143, 28768), (192, 28927), (237, 29107), (244, 29131), (269, 29221), (271, 29227), (283, 29263), (295, 29302), (298, 29311), (306, 29344), (316, 29383), (334, 29428), (351, 29479), (361, 29530), (363, 29539), (380, 29608), (410, 29683), (426, 29728), (429, 29743), (469, 29878), (492, 29932), (499, 29953), (509, 29986), (530, 30031), (551, 30085), (563, 30112), (583, 30169), (590, 30190), (614, 30232), (625, 30271), (642, 30331), (728, 30571), (737, 30607), (751, 30640), (789, 30709),

Gene: LemonSlice_31 Start: 28464, Stop: 30719, Start Num: 37
Candidate Starts for LemonSlice_31:
(Start: 37 @28464 has 342 MA's), (74, 28560), (98, 28638), (104, 28665), (143, 28764), (192, 28923), (237, 29103), (244, 29127), (269, 29217), (271, 29223), (283, 29259), (295, 29298), (298, 29307), (306, 29340), (316, 29379), (334, 29424), (351, 29475), (361, 29526), (363, 29535), (380, 29604), (410, 29679), (426, 29724), (429, 29739), (469, 29874), (492, 29928), (499, 29949), (509, 29982), (530, 30027), (551, 30081), (563, 30108), (583, 30165), (590, 30186), (614, 30228), (625, 30267), (642, 30327), (728, 30567), (736, 30600), (737, 30603), (751, 30636), (756, 30642), (789, 30705),

Gene: LestyG_31 Start: 28617, Stop: 30842, Start Num: 28
Candidate Starts for LestyG_31:
(Start: 28 @28617 has 52 MA's), (Start: 40 @28632 has 1 MA's), (59, 28677), (79, 28734), (105, 28812), (135, 28881), (143, 28893), (158, 28935), (169, 28971), (179, 28998), (183, 29010), (190, 29037), (211, 29127), (229, 29199), (252, 29283), (286, 29391), (291, 29412), (316, 29505), (323, 29520), (360, 29649), (380, 29730), (410, 29805), (425, 29847), (426, 29853), (436, 29889), (469, 30003), (473, 30015), (492, 30057), (499, 30078), (521, 30132), (530, 30156), (546, 30192), (583, 30288), (586, 30297), (614, 30351), (645, 30459), (656, 30486), (672, 30528), (701, 30600), (728,

30690), (737, 30726),

Gene: Lidong_27 Start: 35568, Stop: 37589, Start Num: 6
Candidate Starts for Lidong_27:
(Start: 6 @35568 has 35 MA's), (14, 35616), (23, 35652), (26, 35670), (30, 35679), (44, 35709), (45, 35712), (84, 35823), (122, 35943), (257, 36420), (261, 36429), (294, 36528), (306, 36573), (327, 36639), (353, 36726), (380, 36861), (394, 36894), (455, 37119), (457, 37125), (509, 37284), (551, 37401), (553, 37407), (566, 37434), (578, 37467), (617, 37563),

Gene: LilPharaoh_23 Start: 20414, Stop: 22900, Start Num: 24
Candidate Starts for LilPharaoh_23:
(Start: 24 @20414 has 60 MA's), (44, 20462), (142, 20642), (143, 20645), (164, 20708), (169, 20720), (204, 20852), (214, 20891), (229, 20948), (235, 20972), (238, 20984), (252, 21032), (254, 21035), (267, 21068), (277, 21107), (288, 21140), (291, 21152), (294, 21161), (296, 21167), (311, 21233), (317, 21248), (352, 21359), (357, 21392), (377, 21476), (385, 21491), (406, 21551), (430, 21620), (462, 21740), (496, 21833), (541, 21947), (565, 22025), (568, 22031), (574, 22055), (594, 22118), (596, 22121), (603, 22133), (625, 22199), (627, 22205), (639, 22247), (644, 22268), (645, 22277), (657, 22310), (663, 22328), (685, 22397), (721, 22496), (722, 22502), (728, 22520), (742, 22574), (747, 22589), (766, 22616), (793, 22673),

Gene: Lila22_29 Start: 26738, Stop: 28717, Start Num: 5
Candidate Starts for Lila22_29:
(Start: 5 @26738 has 38 MA's), (29, 26852), (34, 26861), (39, 26870), (41, 26873), (45, 26882), (73, 26951), (94, 27014), (96, 27017), (113, 27056), (119, 27077), (136, 27131), (192, 27308), (209, 27383), (244, 27515), (251, 27542), (252, 27545), (254, 27548), (283, 27635), (298, 27683), (300, 27689), (306, 27716), (331, 27794), (344, 27845), (380, 28004), (394, 28037), (425, 28139), (433, 28175), (536, 28481), (551, 28526), (553, 28532), (578, 28592), (611, 28667),

Gene: LittleDigger_27 Start: 27972, Stop: 30269, Start Num: 37
Candidate Starts for LittleDigger_27:
(Start: 37 @27972 has 342 MA's), (74, 28071), (104, 28176), (118, 28212), (143, 28275), (167, 28356), (189, 28422), (192, 28434), (218, 28539), (228, 28578), (241, 28629), (244, 28638), (265, 28719), (266, 28722), (283, 28785), (296, 28827), (300, 28839), (335, 28962), (346, 28986), (360, 29049), (368, 29088), (392, 29160), (399, 29181), (410, 29217), (417, 29238), (436, 29304), (440, 29316), (453, 29367), (457, 29370), (460, 29388), (468, 29412), (476, 29439), (492, 29472), (499, 29493), (509, 29526), (530, 29571), (585, 29712), (586, 29715), (590, 29727), (626, 29811), (672, 29946), (682, 29970), (703, 30033), (710, 30063), (713, 30069), (728, 30117), (736, 30150), (737, 30153), (789, 30255), (790, 30258),

Gene: LiyuLake_21 Start: 19709, Stop: 22219, Start Num: 18
Candidate Starts for LiyuLake_21:
(Start: 18 @19709 has 19 MA's), (41, 19772), (83, 19892), (145, 20078), (189, 20204), (192, 20216), (196, 20234), (204, 20273), (212, 20303), (235, 20390), (250, 20450), (253, 20456), (293, 20597), (295, 20603), (298, 20612), (303, 20630), (318, 20690), (325, 20711), (343, 20762), (345, 20765), (360, 20834), (407, 20987), (438, 21071), (444, 21089), (447, 21098), (485, 21209), (496, 21227), (514, 21281), (538, 21326), (544, 21341), (559, 21389), (589, 21479), (596, 21497), (622, 21548), (630, 21581), (635, 21599), (636, 21602), (648, 21638), (659, 21668), (661, 21674), (675, 21719), (682, 21743), (685, 21749), (689, 21764), (694, 21782), (709, 21815), (711, 21818), (728, 21869), (747, 21935), (760, 21959), (797, 22034), (812, 22070), (835, 22139),

Gene: Lolalove_28 Start: 28979, Stop: 31276, Start Num: 37
Candidate Starts for Lolalove_28:

(Start: 1 @28292 has 1 MA's), (2, 28439), (Start: 37 @28979 has 342 MA's), (74, 29078), (79, 29096), (118, 29219), (143, 29282), (167, 29363), (189, 29429), (218, 29546), (228, 29585), (241, 29636), (244, 29645), (258, 29702), (265, 29726), (266, 29729), (283, 29792), (296, 29834), (300, 29846), (335, 29969), (346, 29993), (354, 30023), (355, 30026), (360, 30056), (392, 30167), (399, 30188), (404, 30209), (410, 30224), (417, 30245), (436, 30311), (453, 30374), (457, 30377), (460, 30395), (468, 30419), (476, 30446), (492, 30479), (499, 30500), (509, 30533), (530, 30578), (585, 30719), (590, 30734), (626, 30818), (664, 30932), (672, 30953), (682, 30977), (703, 31040), (710, 31070), (728, 31124), (736, 31157), (737, 31160), (789, 31262), (790, 31265),

Gene: Lollipop1437_48 Start: 34224, Stop: 36782, Start Num: 78
Candidate Starts for Lollipop1437_48:
(Start: 78 @34224 has 15 MA's), (164, 34473), (223, 34692), (224, 34695), (258, 34824), (296, 34932), (306, 34971), (420, 35343), (443, 35427), (574, 35805), (614, 35910), (620, 35928), (628, 35961), (634, 35982), (650, 36036), (686, 36141), (696, 36174), (724, 36264), (754, 36360), (756, 36363), (787, 36426), (803, 36459), (806, 36477), (808, 36480), (822, 36516), (830, 36540), (835, 36561), (853, 36651), (856, 36663),

Gene: Lolly9_21 Start: 19528, Stop: 22035, Start Num: 18
Candidate Starts for Lolly9_21:
(Start: 18 @19528 has 19 MA's), (41, 19591), (68, 19663), (83, 19711), (145, 19897), (189, 20023), (196, 20053), (204, 20092), (212, 20122), (235, 20209), (242, 20236), (250, 20269), (253, 20275), (268, 20326), (293, 20413), (295, 20419), (298, 20428), (303, 20446), (318, 20506), (325, 20527), (343, 20578), (345, 20581), (360, 20650), (407, 20803), (438, 20887), (444, 20905), (447, 20914), (514, 21097), (529, 21121), (538, 21142), (544, 21157), (559, 21205), (589, 21295), (591, 21304), (630, 21397), (635, 21415), (636, 21418), (661, 21490), (682, 21559), (685, 21565), (689, 21580), (694, 21598), (709, 21631), (711, 21634), (728, 21685), (733, 21709), (747, 21751), (760, 21775), (797, 21850), (799, 21853), (835, 21955),

Gene: LongHai_25 Start: 19700, Stop: 22018, Start Num: 38
Candidate Starts for LongHai_25:
(Start: 38 @19700 has 2 MA's), (106, 19901), (128, 19946), (131, 19958), (168, 20069), (192, 20135), (220, 20249), (229, 20276), (291, 20498), (297, 20516), (306, 20552), (324, 20612), (351, 20687), (356, 20714), (362, 20741), (371, 20777), (395, 20834), (482, 21029), (514, 21098), (527, 21116), (529, 21122), (530, 21125), (531, 21128), (572, 21245), (575, 21251), (612, 21329), (629, 21377), (630, 21380), (655, 21458), (670, 21509), (677, 21524), (681, 21536), (706, 21599), (712, 21620), (720, 21641), (735, 21698), (742, 21719), (760, 21758), (782, 21800), (797, 21833), (801, 21839), (804, 21854), (835, 21938),

Gene: Longacauda_30 Start: 28469, Stop: 30724, Start Num: 37
Candidate Starts for Longacauda_30:
(Start: 37 @28469 has 342 MA's), (74, 28565), (98, 28643), (104, 28670), (143, 28769), (192, 28928), (237, 29108), (244, 29132), (271, 29228), (283, 29264), (295, 29303), (298, 29312), (306, 29345), (316, 29384), (334, 29429), (351, 29480), (361, 29531), (363, 29540), (380, 29609), (410, 29684), (426, 29729), (429, 29744), (469, 29879), (492, 29933), (499, 29954), (509, 29987), (530, 30032), (551, 30086), (563, 30113), (583, 30170), (590, 30191), (614, 30233), (625, 30272), (642, 30332), (728, 30572), (737, 30608), (751, 30641), (789, 30710),

Gene: Lopsy_30 Start: 28319, Stop: 30574, Start Num: 37
Candidate Starts for Lopsy_30:
(Start: 37 @28319 has 342 MA's), (74, 28415), (98, 28493), (104, 28520), (143, 28619), (192, 28778), (237, 28958), (244, 28982), (271, 29078), (283, 29114), (295, 29153), (298, 29162), (306, 29195), (316, 29234), (334, 29279), (351, 29330), (361, 29381), (363, 29390), (380, 29459), (410, 29534), (426, 29579), (429, 29594), (469, 29729), (492, 29783), (499, 29804), (509, 29837), (530, 29882),

(551, 29936), (563, 29963), (583, 30020), (590, 30041), (614, 30083), (625, 30122), (642, 30182), (728, 30422), (737, 30458), (751, 30491), (789, 30560),

Gene: LostAndPhound_30 Start: 28470, Stop: 30725, Start Num: 37
Candidate Starts for LostAndPhound_30:
(Start: 37 @28470 has 342 MA's), (74, 28566), (98, 28644), (104, 28671), (143, 28770), (192, 28929), (237, 29109), (244, 29133), (269, 29223), (271, 29229), (283, 29265), (295, 29304), (298, 29313), (306, 29346), (316, 29385), (334, 29430), (351, 29481), (361, 29532), (363, 29541), (380, 29610), (410, 29685), (426, 29730), (429, 29745), (469, 29880), (492, 29934), (499, 29955), (509, 29988), (530, 30033), (551, 30087), (563, 30114), (583, 30171), (590, 30192), (614, 30234), (625, 30273), (642, 30333), (728, 30573), (737, 30609), (751, 30642), (789, 30711),

Gene: Luchador_33 Start: 23273, Stop: 25723, Start Num: 20
Candidate Starts for Luchador_33:
(Start: 20 @23273 has 4 MA's), (Start: 22 @23279 has 2 MA's), (99, 23489), (124, 23546), (134, 23567), (205, 23798), (237, 23909), (283, 24083), (296, 24125), (310, 24182), (313, 24188), (320, 24206), (327, 24227), (329, 24233), (333, 24245), (424, 24524), (444, 24587), (483, 24701), (506, 24758), (538, 24824), (539, 24827), (544, 24839), (553, 24881), (568, 24923), (630, 25085), (636, 25106), (649, 25145), (686, 25253), (703, 25295), (709, 25316), (723, 25355), (733, 25397), (764, 25466), (810, 25565), (820, 25592), (821, 25595), (836, 25649), (847, 25676),

Gene: LuckyLeo_29 Start: 26090, Stop: 28090, Start Num: 5
Candidate Starts for LuckyLeo_29:
(Start: 5 @26090 has 38 MA's), (29, 26204), (34, 26213), (39, 26222), (41, 26225), (45, 26234), (73, 26303), (91, 26360), (209, 26741), (218, 26774), (249, 26897), (252, 26903), (300, 27047), (306, 27074), (344, 27203), (353, 27227), (380, 27362), (394, 27395), (468, 27668), (475, 27692), (551, 27902), (553, 27908), (567, 27938), (578, 27971),

Gene: LuckyMarjie_30 Start: 28479, Stop: 30734, Start Num: 37
Candidate Starts for LuckyMarjie_30:
(Start: 37 @28479 has 342 MA's), (74, 28575), (98, 28653), (104, 28680), (143, 28779), (192, 28938), (237, 29118), (244, 29142), (269, 29232), (271, 29238), (283, 29274), (295, 29313), (298, 29322), (306, 29355), (316, 29394), (334, 29439), (351, 29490), (361, 29541), (363, 29550), (380, 29619), (410, 29694), (426, 29739), (429, 29754), (469, 29889), (492, 29943), (499, 29964), (509, 29997), (530, 30042), (551, 30096), (563, 30123), (583, 30180), (590, 30201), (614, 30243), (625, 30282), (642, 30342), (728, 30582), (737, 30618), (751, 30651), (789, 30720),

Gene: Luker_28 Start: 35796, Stop: 37820, Start Num: 6
Candidate Starts for Luker_28:
(Start: 6 @35796 has 35 MA's), (14, 35844), (23, 35880), (26, 35898), (30, 35907), (44, 35937), (45, 35940), (84, 36051), (122, 36171), (257, 36648), (261, 36657), (294, 36756), (306, 36801), (327, 36867), (353, 36954), (380, 37089), (394, 37122), (479, 37434), (506, 37500), (509, 37512), (541, 37593), (551, 37629), (553, 37635), (566, 37662), (578, 37695),

Gene: Lulumae_30 Start: 28461, Stop: 30716, Start Num: 37
Candidate Starts for Lulumae_30:
(Start: 37 @28461 has 342 MA's), (74, 28557), (98, 28635), (104, 28662), (143, 28761), (192, 28920), (237, 29100), (244, 29124), (269, 29214), (271, 29220), (283, 29256), (295, 29295), (298, 29304), (306, 29337), (316, 29376), (334, 29421), (351, 29472), (361, 29523), (363, 29532), (380, 29601), (410, 29676), (426, 29721), (429, 29736), (469, 29871), (492, 29925), (499, 29946), (509, 29979), (530, 30024), (551, 30078), (583, 30162), (590, 30183), (614, 30225), (625, 30264), (642, 30324), (728, 30564), (736, 30597), (737, 30600), (751, 30633), (756, 30639), (789, 30702),

Gene: Lulwa_31 Start: 28748, Stop: 31003, Start Num: 37
Candidate Starts for Lulwa_31:
(Start: 37 @28748 has 342 MA's), (74, 28844), (98, 28922), (104, 28949), (143, 29048), (192, 29207), (237, 29387), (244, 29411), (269, 29501), (271, 29507), (283, 29543), (295, 29582), (298, 29591), (306, 29624), (316, 29663), (334, 29708), (351, 29759), (361, 29810), (363, 29819), (380, 29888), (410, 29963), (426, 30008), (429, 30023), (469, 30158), (492, 30212), (499, 30233), (509, 30266), (530, 30311), (551, 30365), (563, 30392), (583, 30449), (590, 30470), (614, 30512), (625, 30551), (642, 30611), (728, 30851), (737, 30887), (751, 30920), (789, 30989),

Gene: Lumine_30 Start: 28457, Stop: 30712, Start Num: 37
Candidate Starts for Lumine_30:
(Start: 37 @28457 has 342 MA's), (74, 28553), (98, 28631), (104, 28658), (143, 28757), (192, 28916), (237, 29096), (244, 29120), (269, 29210), (271, 29216), (283, 29252), (295, 29291), (298, 29300), (306, 29333), (316, 29372), (334, 29417), (351, 29468), (361, 29519), (363, 29528), (380, 29597), (410, 29672), (426, 29717), (429, 29732), (469, 29867), (492, 29921), (499, 29942), (509, 29975), (530, 30020), (551, 30074), (563, 30101), (583, 30158), (590, 30179), (614, 30221), (625, 30260), (642, 30320), (728, 30560), (736, 30593), (737, 30596), (751, 30629), (756, 30635), (789, 30698),

Gene: Lumos_21 Start: 19721, Stop: 22234, Start Num: 18
Candidate Starts for Lumos_21:
(Start: 18 @19721 has 19 MA's), (41, 19784), (68, 19856), (98, 19946), (101, 19952), (127, 20024), (150, 20111), (189, 20216), (192, 20228), (196, 20246), (204, 20285), (212, 20315), (228, 20372), (235, 20402), (237, 20408), (250, 20462), (253, 20468), (294, 20615), (295, 20618), (298, 20627), (303, 20645), (318, 20705), (321, 20714), (325, 20726), (343, 20777), (345, 20780), (386, 20945), (407, 21002), (438, 21086), (444, 21104), (447, 21113), (468, 21176), (514, 21296), (529, 21320), (538, 21341), (544, 21356), (550, 21374), (559, 21404), (589, 21494), (622, 21563), (630, 21596), (636, 21617), (648, 21653), (661, 21689), (675, 21734), (682, 21758), (685, 21764), (689, 21779), (694, 21797), (728, 21884), (733, 21908), (744, 21944), (747, 21950), (760, 21974), (797, 22049), (799, 22052), (832, 22139), (834, 22148), (835, 22154),

Gene: MRabcd_30 Start: 28461, Stop: 30716, Start Num: 37
Candidate Starts for MRabcd_30:
(Start: 37 @28461 has 342 MA's), (74, 28557), (98, 28635), (104, 28662), (143, 28761), (192, 28920), (237, 29100), (244, 29124), (269, 29214), (271, 29220), (283, 29256), (295, 29295), (298, 29304), (306, 29337), (316, 29376), (334, 29421), (351, 29472), (361, 29523), (363, 29532), (380, 29601), (410, 29676), (426, 29721), (429, 29736), (469, 29871), (492, 29925), (499, 29946), (509, 29979), (530, 30024), (551, 30078), (563, 30105), (583, 30162), (590, 30183), (614, 30225), (625, 30264), (642, 30324), (728, 30564), (736, 30597), (737, 30600), (751, 30633), (756, 30639), (789, 30702),

Gene: MacnCheese_27 Start: 21549, Stop: 24002, Start Num: 24
Candidate Starts for MacnCheese_27:
(Start: 24 @21549 has 60 MA's), (Start: 36 @21576 has 1 MA's), (48, 21609), (52, 21621), (86, 21714), (172, 21978), (188, 22023), (192, 22041), (196, 22059), (201, 22077), (216, 22137), (221, 22155), (230, 22191), (244, 22242), (288, 22389), (323, 22512), (364, 22629), (373, 22671), (374, 22677), (377, 22686), (388, 22710), (408, 22776), (416, 22794), (428, 22836), (436, 22857), (445, 22878), (448, 22887), (476, 22974), (512, 23067), (514, 23070), (548, 23142), (591, 23271), (596, 23280), (620, 23325), (622, 23331), (630, 23364), (635, 23382), (668, 23481), (674, 23499), (692, 23553), (709, 23598), (722, 23634), (735, 23682), (774, 23766), (833, 23895), (843, 23934),

Gene: Maco6_22 Start: 18657, Stop: 20975, Start Num: 38
Candidate Starts for Maco6_22:
(Start: 38 @18657 has 2 MA's), (106, 18858), (128, 18903), (131, 18915), (168, 19026), (192, 19092), (229, 19233), (262, 19365), (276, 19404), (280, 19416), (291, 19455), (297, 19473), (306, 19509),

(324, 19569), (351, 19644), (356, 19671), (371, 19734), (395, 19791), (482, 19986), (484, 19989), (514, 20055), (527, 20073), (529, 20079), (530, 20082), (531, 20085), (575, 20208), (591, 20256), (612, 20286), (628, 20331), (630, 20337), (643, 20379), (655, 20415), (670, 20466), (677, 20481), (682, 20499), (706, 20556), (712, 20577), (720, 20598), (735, 20655), (742, 20676), (760, 20715), (782, 20757), (797, 20790), (801, 20796), (804, 20811), (835, 20895),

Gene: Mag7_30 Start: 28367, Stop: 30622, Start Num: 37
Candidate Starts for Mag7_30:
(Start: 37 @28367 has 342 MA's), (74, 28463), (98, 28541), (104, 28568), (143, 28667), (192, 28826), (237, 29006), (244, 29030), (269, 29120), (271, 29126), (283, 29162), (295, 29201), (298, 29210), (306, 29243), (316, 29282), (334, 29327), (351, 29378), (361, 29429), (363, 29438), (380, 29507), (410, 29582), (426, 29627), (429, 29642), (469, 29777), (492, 29831), (499, 29852), (509, 29885), (530, 29930), (551, 29984), (563, 30011), (583, 30068), (590, 30089), (614, 30131), (625, 30170), (642, 30230), (728, 30470), (736, 30503), (737, 30506), (751, 30539), (756, 30545), (789, 30608),

Gene: Magic8_31 Start: 28802, Stop: 31057, Start Num: 37
Candidate Starts for Magic8_31:
(Start: 37 @28802 has 342 MA's), (74, 28898), (98, 28976), (104, 29003), (143, 29102), (192, 29261), (237, 29441), (244, 29465), (269, 29555), (271, 29561), (283, 29597), (295, 29636), (298, 29645), (306, 29678), (316, 29717), (334, 29762), (351, 29813), (361, 29864), (363, 29873), (380, 29942), (410, 30017), (426, 30062), (429, 30077), (469, 30212), (492, 30266), (499, 30287), (509, 30320), (530, 30365), (551, 30419), (563, 30446), (583, 30503), (590, 30524), (614, 30566), (625, 30605), (642, 30665), (728, 30905), (737, 30941), (751, 30974), (789, 31043),

Gene: Magpie_27 Start: 28808, Stop: 31105, Start Num: 37
Candidate Starts for Magpie_27:
(Start: 37 @28808 has 342 MA's), (74, 28907), (79, 28925), (143, 29111), (167, 29192), (189, 29258), (218, 29375), (228, 29414), (241, 29465), (244, 29474), (258, 29531), (265, 29555), (283, 29621), (296, 29663), (300, 29675), (346, 29822), (360, 29885), (392, 29996), (399, 30017), (417, 30074), (436, 30140), (440, 30152), (453, 30203), (457, 30206), (460, 30224), (468, 30248), (476, 30275), (492, 30308), (499, 30329), (509, 30362), (530, 30407), (585, 30548), (586, 30551), (590, 30563), (626, 30647), (664, 30761), (672, 30782), (682, 30806), (703, 30869), (710, 30899), (713, 30905), (728, 30953), (736, 30986), (737, 30989), (789, 31091), (790, 31094),

Gene: MalagasyRose_27 Start: 20187, Stop: 22691, Start Num: 61
Candidate Starts for MalagasyRose_27:
(Start: 61 @20187 has 1 MA's), (132, 20397), (137, 20412), (146, 20445), (164, 20496), (223, 20712), (224, 20715), (229, 20736), (267, 20868), (268, 20871), (279, 20913), (280, 20916), (296, 20970), (297, 20973), (298, 20976), (300, 20982), (306, 21009), (312, 21039), (331, 21084), (336, 21114), (356, 21189), (370, 21270), (372, 21279), (380, 21315), (392, 21351), (406, 21402), (411, 21414), (440, 21501), (444, 21510), (452, 21543), (459, 21582), (477, 21642), (525, 21750), (548, 21822), (564, 21876), (582, 21939), (587, 21954), (598, 21978), (608, 21996), (614, 22014), (616, 22020), (621, 22035), (630, 22071), (636, 22092), (638, 22101), (667, 22191), (712, 22335), (718, 22347), (721, 22359), (733, 22407), (734, 22410), (735, 22413), (749, 22455), (772, 22476), (782, 22497), (783, 22500), (789, 22512), (832, 22596), (859, 22683),

Gene: Malthus_29 Start: 22196, Stop: 24505, Start Num: 66
Candidate Starts for Malthus_29:
(Start: 66 @22196 has 18 MA's), (102, 22286), (106, 22307), (143, 22331), (185, 22448), (214, 22577), (230, 22637), (248, 22709), (252, 22718), (269, 22769), (271, 22775), (274, 22784), (288, 22835), (291, 22847), (296, 22862), (298, 22868), (306, 22901), (319, 22949), (344, 23003), (364, 23075), (372, 23114), (375, 23126), (382, 23141), (400, 23186), (421, 23255), (449, 23336), (502, 23489), (521, 23531), (560, 23660), (574, 23705), (596, 23771), (607, 23786), (636, 23882), (685, 24035),

(689, 24050), (692, 24056), (698, 24080), (701, 24086), (703, 24092), (704, 24095), (712, 24119), (718, 24131), (744, 24227), (772, 24278), (774, 24281), (805, 24350), (824, 24386), (834, 24419), (851, 24473), (854, 24482), (859, 24497),

Gene: Mana_30 Start: 28476, Stop: 30731, Start Num: 37
Candidate Starts for Mana_30:
(Start: 37 @28476 has 342 MA's), (74, 28572), (98, 28650), (104, 28677), (143, 28776), (192, 28935), (237, 29115), (244, 29139), (269, 29229), (271, 29235), (283, 29271), (295, 29310), (298, 29319), (306, 29352), (316, 29391), (334, 29436), (351, 29487), (361, 29538), (363, 29547), (380, 29616), (410, 29691), (426, 29736), (429, 29751), (469, 29886), (492, 29940), (499, 29961), (509, 29994), (530, 30039), (551, 30093), (563, 30120), (583, 30177), (590, 30198), (614, 30240), (625, 30279), (642, 30339), (728, 30579), (737, 30615), (751, 30648), (789, 30717),

Gene: Manad_30 Start: 28315, Stop: 30573, Start Num: 37
Candidate Starts for Manad_30:
(Start: 37 @28315 has 342 MA's), (74, 28411), (98, 28489), (104, 28516), (143, 28618), (192, 28777), (237, 28957), (244, 28981), (271, 29077), (283, 29113), (295, 29152), (298, 29161), (306, 29194), (316, 29233), (334, 29278), (351, 29329), (361, 29380), (363, 29389), (380, 29458), (410, 29533), (426, 29578), (429, 29593), (469, 29728), (492, 29782), (499, 29803), (509, 29836), (530, 29881), (551, 29935), (583, 30019), (590, 30040), (614, 30082), (625, 30121), (642, 30181), (728, 30421), (736, 30454), (737, 30457), (751, 30490), (756, 30496), (789, 30559),

Gene: Manilisa_30 Start: 24464, Stop: 27067, Start Num: 10
Candidate Starts for Manilisa_30:
(Start: 10 @24464 has 1 MA's), (49, 24578), (51, 24587), (154, 24890), (203, 25064), (238, 25199), (247, 25235), (265, 25286), (266, 25289), (288, 25361), (303, 25412), (306, 25427), (308, 25445), (316, 25469), (403, 25778), (409, 25799), (412, 25808), (414, 25811), (431, 25883), (470, 26030), (481, 26060), (513, 26141), (516, 26144), (533, 26183), (536, 26195), (553, 26246), (599, 26372), (660, 26555), (683, 26636), (719, 26759), (739, 26834), (760, 26888), (784, 26948), (788, 26960),

Gene: Marcoliusprime_23 Start: 18661, Stop: 21000, Start Num: 24
Candidate Starts for Marcoliusprime_23:
(Start: 24 @18661 has 60 MA's), (89, 18832), (93, 18850), (103, 18874), (185, 19018), (193, 19051), (227, 19180), (229, 19189), (233, 19204), (236, 19216), (238, 19225), (252, 19273), (282, 19369), (288, 19387), (294, 19408), (306, 19453), (344, 19555), (364, 19627), (373, 19669), (374, 19675), (377, 19684), (406, 19771), (416, 19792), (428, 19834), (436, 19855), (476, 19972), (478, 19981), (518, 20071), (544, 20125), (548, 20137), (554, 20161), (596, 20275), (613, 20302), (630, 20359), (645, 20416), (692, 20548), (706, 20578), (722, 20629), (728, 20647), (735, 20677), (757, 20731), (774, 20761), (783, 20782), (839, 20914),

Gene: Marley1013_31 Start: 29395, Stop: 31620, Start Num: 28
Candidate Starts for Marley1013_31:
(Start: 28 @29395 has 52 MA's), (Start: 40 @29410 has 1 MA's), (59, 29455), (79, 29512), (105, 29590), (135, 29659), (143, 29671), (158, 29713), (169, 29749), (179, 29776), (183, 29788), (190, 29815), (211, 29905), (229, 29977), (252, 30061), (286, 30169), (291, 30190), (316, 30283), (323, 30298), (360, 30427), (380, 30508), (410, 30583), (425, 30625), (426, 30631), (436, 30667), (469, 30781), (473, 30793), (492, 30835), (499, 30856), (521, 30910), (530, 30934), (583, 31066), (586, 31075), (614, 31129), (645, 31237), (656, 31264), (672, 31306), (701, 31378), (728, 31468), (737, 31504),

Gene: Marlia_31 Start: 28597, Stop: 30822, Start Num: 28
Candidate Starts for Marlia_31:

(Start: 28 @28597 has 52 MA's), (Start: 40 @28612 has 1 MA's), (59, 28657), (79, 28714), (105, 28792), (135, 28861), (143, 28873), (158, 28915), (169, 28951), (179, 28978), (183, 28990), (190, 29017), (211, 29107), (229, 29179), (252, 29263), (286, 29371), (291, 29392), (316, 29485), (323, 29500), (360, 29629), (380, 29710), (410, 29785), (425, 29827), (426, 29833), (436, 29869), (469, 29983), (473, 29995), (492, 30037), (499, 30058), (521, 30112), (530, 30136), (546, 30172), (583, 30268), (586, 30277), (614, 30331), (645, 30439), (656, 30466), (672, 30508), (701, 30580), (728, 30670), (737, 30706),

Gene: Maru_30 Start: 28469, Stop: 30724, Start Num: 37
Candidate Starts for Maru_30:
(Start: 37 @28469 has 342 MA's), (74, 28565), (98, 28643), (104, 28670), (143, 28769), (192, 28928), (237, 29108), (244, 29132), (269, 29222), (271, 29228), (283, 29264), (295, 29303), (298, 29312), (306, 29345), (316, 29384), (334, 29429), (351, 29480), (361, 29531), (363, 29540), (380, 29609), (410, 29684), (426, 29729), (429, 29744), (469, 29879), (492, 29933), (499, 29954), (509, 29987), (530, 30032), (551, 30086), (563, 30113), (583, 30170), (590, 30191), (614, 30233), (625, 30272), (642, 30332), (728, 30572), (737, 30608), (751, 30641), (789, 30710),

Gene: Maskar_30 Start: 28315, Stop: 30570, Start Num: 37
Candidate Starts for Maskar_30:
(Start: 37 @28315 has 342 MA's), (74, 28411), (98, 28489), (104, 28516), (143, 28615), (192, 28774), (237, 28954), (244, 28978), (271, 29074), (283, 29110), (295, 29149), (298, 29158), (306, 29191), (316, 29230), (334, 29275), (351, 29326), (361, 29377), (363, 29386), (380, 29455), (410, 29530), (426, 29575), (429, 29590), (469, 29725), (492, 29779), (499, 29800), (509, 29833), (530, 29878), (551, 29932), (563, 29959), (583, 30016), (590, 30037), (614, 30079), (625, 30118), (642, 30178), (728, 30418), (737, 30454), (751, 30487), (789, 30556),

Gene: Matalotodo_31 Start: 28762, Stop: 31017, Start Num: 37
Candidate Starts for Matalotodo_31:
(Start: 37 @28762 has 342 MA's), (74, 28858), (98, 28936), (104, 28963), (143, 29062), (192, 29221), (237, 29401), (244, 29425), (269, 29515), (271, 29521), (283, 29557), (295, 29596), (298, 29605), (306, 29638), (316, 29677), (334, 29722), (351, 29773), (361, 29824), (363, 29833), (380, 29902), (410, 29977), (426, 30022), (429, 30037), (469, 30172), (492, 30226), (499, 30247), (509, 30280), (530, 30325), (551, 30379), (563, 30406), (583, 30463), (590, 30484), (614, 30526), (625, 30565), (642, 30625), (728, 30865), (737, 30901), (751, 30934), (789, 31003),

Gene: McMater_27 Start: 20230, Stop: 22731, Start Num: 24
Candidate Starts for McMater_27:
(Start: 24 @20230 has 60 MA's), (44, 20278), (63, 20329), (89, 20401), (141, 20452), (144, 20470), (155, 20503), (164, 20524), (169, 20536), (188, 20590), (204, 20668), (214, 20707), (229, 20764), (238, 20800), (254, 20851), (267, 20881), (272, 20896), (277, 20920), (288, 20953), (294, 20974), (296, 20980), (306, 21019), (352, 21172), (357, 21205), (360, 21217), (374, 21280), (406, 21364), (459, 21547), (476, 21601), (496, 21643), (565, 21835), (568, 21841), (574, 21865), (594, 21928), (614, 21967), (633, 22030), (645, 22087), (657, 22120), (663, 22138), (675, 22177), (687, 22216), (689, 22222), (709, 22279), (744, 22393), (775, 22447), (782, 22462), (796, 22492), (803, 22504), (823, 22561), (829, 22579), (837, 22609), (838, 22627), (858, 22708),

Gene: Mcshane_30 Start: 28459, Stop: 30714, Start Num: 37
Candidate Starts for Mcshane_30:
(Start: 37 @28459 has 342 MA's), (74, 28555), (98, 28633), (104, 28660), (143, 28759), (192, 28918), (237, 29098), (244, 29122), (269, 29212), (271, 29218), (283, 29254), (295, 29293), (298, 29302), (306, 29335), (316, 29374), (334, 29419), (351, 29470), (361, 29521), (363, 29530), (380, 29599), (410, 29674), (426, 29719), (429, 29734), (469, 29869), (492, 29923), (499, 29944), (509, 29977), (530, 30022), (551, 30076), (563, 30103), (583, 30160), (590, 30181), (614, 30223), (625, 30262),

(642, 30322), (728, 30562), (737, 30598), (751, 30631), (789, 30700),

Gene: Mdavu_23 Start: 20402, Stop: 22888, Start Num: 24
Candidate Starts for Mdavu_23:
(Start: 24 @20402 has 60 MA's), (44, 20450), (142, 20630), (143, 20633), (164, 20696), (169, 20708), (204, 20840), (214, 20879), (229, 20936), (235, 20960), (238, 20972), (252, 21020), (254, 21023), (267, 21056), (277, 21095), (288, 21128), (291, 21140), (294, 21149), (296, 21155), (311, 21221), (317, 21236), (352, 21347), (357, 21380), (377, 21464), (385, 21479), (406, 21539), (430, 21608), (462, 21728), (496, 21821), (541, 21935), (565, 22013), (568, 22019), (574, 22043), (594, 22106), (596, 22109), (603, 22121), (625, 22187), (627, 22193), (639, 22235), (644, 22256), (645, 22265), (657, 22298), (663, 22316), (685, 22385), (721, 22484), (722, 22490), (728, 22508), (742, 22562), (747, 22577), (766, 22604), (793, 22661),

Gene: Mecca_30 Start: 28462, Stop: 30717, Start Num: 37
Candidate Starts for Mecca_30:
(Start: 37 @28462 has 342 MA's), (74, 28558), (98, 28636), (104, 28663), (143, 28762), (192, 28921), (237, 29101), (244, 29125), (269, 29215), (271, 29221), (283, 29257), (295, 29296), (298, 29305), (306, 29338), (316, 29377), (334, 29422), (351, 29473), (361, 29524), (363, 29533), (380, 29602), (410, 29677), (426, 29722), (429, 29737), (469, 29872), (492, 29926), (499, 29947), (509, 29980), (530, 30025), (551, 30079), (563, 30106), (583, 30163), (590, 30184), (614, 30226), (625, 30265), (642, 30325), (728, 30565), (736, 30598), (737, 30601), (751, 30634), (756, 30640), (789, 30703),

Gene: Megamind20_31 Start: 28484, Stop: 30739, Start Num: 37
Candidate Starts for Megamind20_31:
(Start: 37 @28484 has 342 MA's), (74, 28580), (98, 28658), (104, 28685), (143, 28784), (192, 28943), (237, 29123), (244, 29147), (269, 29237), (271, 29243), (283, 29279), (295, 29318), (298, 29327), (306, 29360), (316, 29399), (334, 29444), (351, 29495), (361, 29546), (363, 29555), (380, 29624), (410, 29699), (426, 29744), (429, 29759), (469, 29894), (492, 29948), (499, 29969), (509, 30002), (530, 30047), (551, 30101), (563, 30128), (583, 30185), (590, 30206), (614, 30248), (625, 30287), (642, 30347), (728, 30587), (736, 30620), (737, 30623), (751, 30656), (756, 30662), (789, 30725),

Gene: Megatron_31 Start: 28760, Stop: 31015, Start Num: 37
Candidate Starts for Megatron_31:
(Start: 37 @28760 has 342 MA's), (74, 28856), (98, 28934), (104, 28961), (143, 29060), (192, 29219), (237, 29399), (244, 29423), (269, 29513), (271, 29519), (283, 29555), (295, 29594), (298, 29603), (306, 29636), (316, 29675), (334, 29720), (351, 29771), (361, 29822), (363, 29831), (380, 29900), (410, 29975), (426, 30020), (429, 30035), (469, 30170), (492, 30224), (499, 30245), (509, 30278), (530, 30323), (551, 30377), (563, 30404), (583, 30461), (590, 30482), (614, 30524), (625, 30563), (642, 30623), (728, 30863), (736, 30896), (737, 30899), (751, 30932), (756, 30938), (789, 31001),

Gene: Megiddo_21 Start: 18926, Stop: 21559, Start Num: 9
Candidate Starts for Megiddo_21:
(Start: 9 @18926 has 17 MA's), (11, 18935), (62, 19079), (157, 19352), (161, 19364), (170, 19385), (180, 19409), (200, 19484), (215, 19556), (224, 19586), (233, 19622), (247, 19685), (254, 19700), (262, 19727), (265, 19733), (288, 19808), (294, 19832), (296, 19838), (300, 19850), (307, 19892), (309, 19898), (337, 19985), (345, 20006), (352, 20030), (365, 20096), (368, 20117), (372, 20135), (382, 20168), (390, 20192), (392, 20195), (406, 20246), (444, 20351), (453, 20393), (507, 20558), (543, 20654), (568, 20732), (573, 20744), (610, 20834), (627, 20894), (630, 20903), (644, 20951), (645, 20960), (685, 21077), (700, 21122), (718, 21164), (735, 21230), (743, 21254), (768, 21302), (772, 21308), (776, 21314), (822, 21413), (825, 21422), (834, 21452), (855, 21542), (859, 21551),

Gene: Melc17_31 Start: 28757, Stop: 31012, Start Num: 37
Candidate Starts for Melc17_31:

(Start: 37 @28757 has 342 MA's), (74, 28853), (98, 28931), (104, 28958), (143, 29057), (192, 29216), (237, 29396), (244, 29420), (269, 29510), (271, 29516), (283, 29552), (295, 29591), (298, 29600), (306, 29633), (316, 29672), (334, 29717), (351, 29768), (361, 29819), (363, 29828), (380, 29897), (410, 29972), (426, 30017), (429, 30032), (469, 30167), (492, 30221), (499, 30242), (509, 30275), (530, 30320), (551, 30374), (563, 30401), (583, 30458), (590, 30479), (614, 30521), (625, 30560), (642, 30620), (728, 30860), (736, 30893), (737, 30896), (751, 30929), (756, 30935), (789, 30998),

Gene: MelsMeow_30 Start: 28361, Stop: 30619, Start Num: 37
Candidate Starts for MelsMeow_30:
(Start: 37 @28361 has 342 MA's), (74, 28457), (98, 28535), (104, 28562), (143, 28664), (192, 28823), (237, 29003), (244, 29027), (246, 29039), (271, 29123), (283, 29159), (295, 29198), (298, 29207), (306, 29240), (316, 29279), (334, 29324), (351, 29375), (361, 29426), (363, 29435), (380, 29504), (410, 29579), (426, 29624), (429, 29639), (469, 29774), (492, 29828), (499, 29849), (509, 29882), (530, 29927), (551, 29981), (563, 30008), (583, 30065), (590, 30086), (614, 30128), (625, 30167), (642, 30227), (728, 30467), (737, 30503), (751, 30536), (789, 30605),

Gene: MerCougar_44 Start: 33507, Stop: 36065, Start Num: 78
Candidate Starts for MerCougar_44:
(Start: 78 @33507 has 15 MA's), (81, 33516), (120, 33636), (223, 33975), (224, 33978), (238, 34035), (287, 34188), (307, 34269), (339, 34359), (420, 34626), (443, 34710), (537, 34980), (574, 35088), (614, 35193), (620, 35211), (628, 35244), (632, 35253), (659, 35343), (672, 35388), (685, 35421), (686, 35424), (696, 35457), (732, 35577), (740, 35601), (741, 35604), (754, 35643), (756, 35646), (803, 35742), (834, 35838), (835, 35844), (848, 35916), (856, 35946), (861, 35973), (862, 36018), (863, 36036),

Gene: Mesh1_31 Start: 28774, Stop: 31029, Start Num: 37
Candidate Starts for Mesh1_31:
(Start: 37 @28774 has 342 MA's), (74, 28870), (98, 28948), (104, 28975), (143, 29074), (192, 29233), (237, 29413), (244, 29437), (269, 29527), (271, 29533), (283, 29569), (295, 29608), (298, 29617), (306, 29650), (316, 29689), (334, 29734), (351, 29785), (361, 29836), (363, 29845), (380, 29914), (410, 29989), (426, 30034), (429, 30049), (469, 30184), (492, 30238), (499, 30259), (509, 30292), (530, 30337), (551, 30391), (563, 30418), (583, 30475), (590, 30496), (614, 30538), (625, 30577), (642, 30637), (728, 30877), (736, 30910), (737, 30913), (751, 30946), (756, 30952), (789, 31015),

Gene: Mesmerelda_30 Start: 28472, Stop: 30727, Start Num: 37
Candidate Starts for Mesmerelda_30:
(Start: 37 @28472 has 342 MA's), (74, 28568), (98, 28646), (104, 28673), (143, 28772), (192, 28931), (237, 29111), (244, 29135), (269, 29225), (271, 29231), (283, 29267), (295, 29306), (298, 29315), (306, 29348), (316, 29387), (334, 29432), (351, 29483), (361, 29534), (363, 29543), (380, 29612), (410, 29687), (426, 29732), (429, 29747), (469, 29882), (492, 29936), (499, 29957), (509, 29990), (530, 30035), (551, 30089), (563, 30116), (583, 30173), (590, 30194), (614, 30236), (625, 30275), (642, 30335), (728, 30575), (737, 30611), (751, 30644), (789, 30713),

Gene: MichaelPhcott_30 Start: 28364, Stop: 30619, Start Num: 37
Candidate Starts for MichaelPhcott_30:
(Start: 37 @28364 has 342 MA's), (74, 28460), (98, 28538), (104, 28565), (143, 28664), (192, 28823), (237, 29003), (244, 29027), (269, 29117), (271, 29123), (283, 29159), (295, 29198), (298, 29207), (306, 29240), (316, 29279), (334, 29324), (351, 29375), (361, 29426), (363, 29435), (380, 29504), (410, 29579), (426, 29624), (429, 29639), (469, 29774), (492, 29828), (499, 29849), (509, 29882), (530, 29927), (551, 29981), (563, 30008), (583, 30065), (590, 30086), (614, 30128), (625, 30167), (642, 30227), (728, 30467), (736, 30500), (737, 30503), (751, 30536), (756, 30542), (789, 30605),

Gene: Mikota_31 Start: 28747, Stop: 31002, Start Num: 37

Candidate Starts for Mikota_31:
(Start: 37 @28747 has 342 MA's), (74, 28843), (98, 28921), (104, 28948), (143, 29047), (192, 29206), (237, 29386), (244, 29410), (271, 29506), (283, 29542), (295, 29581), (298, 29590), (306, 29623), (316, 29662), (334, 29707), (351, 29758), (361, 29809), (363, 29818), (380, 29887), (410, 29962), (426, 30007), (429, 30022), (469, 30157), (492, 30211), (499, 30232), (509, 30265), (530, 30310), (551, 30364), (563, 30391), (583, 30448), (590, 30469), (614, 30511), (625, 30550), (642, 30610), (728, 30850), (736, 30883), (737, 30886), (751, 30919), (756, 30925), (789, 30988),

Gene: Milly_23 Start: 18661, Stop: 21000, Start Num: 24
Candidate Starts for Milly_23:
(Start: 24 @18661 has 60 MA's), (89, 18832), (93, 18850), (103, 18874), (185, 19018), (193, 19051), (227, 19180), (229, 19189), (233, 19204), (236, 19216), (238, 19225), (252, 19273), (282, 19369), (288, 19387), (294, 19408), (306, 19453), (344, 19555), (364, 19627), (373, 19669), (374, 19675), (377, 19684), (406, 19771), (416, 19792), (428, 19834), (436, 19855), (476, 19972), (478, 19981), (497, 20017), (518, 20071), (544, 20125), (548, 20137), (554, 20161), (596, 20275), (613, 20302), (630, 20359), (692, 20548), (706, 20578), (722, 20629), (735, 20677), (757, 20731), (774, 20761), (783, 20782), (839, 20914),

Gene: Mima20_28 Start: 26467, Stop: 28473, Start Num: 5
Candidate Starts for Mima20_28:
(Start: 5 @26467 has 38 MA's), (29, 26581), (34, 26590), (39, 26599), (41, 26602), (45, 26611), (73, 26680), (192, 27043), (209, 27118), (244, 27250), (251, 27277), (252, 27280), (254, 27283), (283, 27370), (298, 27418), (300, 27424), (306, 27451), (331, 27529), (344, 27580), (380, 27739), (394, 27772), (419, 27853), (460, 28021), (468, 28045), (551, 28282), (553, 28288), (567, 28318), (578, 28351), (601, 28408), (614, 28438), (617, 28447),

Gene: MiniBoss_31 Start: 28753, Stop: 31008, Start Num: 37
Candidate Starts for MiniBoss_31:
(Start: 37 @28753 has 342 MA's), (74, 28849), (98, 28927), (104, 28954), (143, 29053), (192, 29212), (237, 29392), (244, 29416), (271, 29512), (283, 29548), (295, 29587), (298, 29596), (306, 29629), (316, 29668), (334, 29713), (351, 29764), (361, 29815), (363, 29824), (380, 29893), (410, 29968), (426, 30013), (429, 30028), (469, 30163), (492, 30217), (499, 30238), (509, 30271), (530, 30316), (551, 30370), (563, 30397), (583, 30454), (590, 30475), (614, 30517), (625, 30556), (642, 30616), (728, 30856), (737, 30892), (751, 30925), (789, 30994),

Gene: MiniLon_21 Start: 19528, Stop: 22035, Start Num: 18
Candidate Starts for MiniLon_21:
(Start: 18 @19528 has 19 MA's), (41, 19591), (68, 19663), (83, 19711), (145, 19897), (189, 20023), (196, 20053), (204, 20092), (212, 20122), (235, 20209), (242, 20236), (250, 20269), (253, 20275), (268, 20326), (293, 20413), (295, 20419), (298, 20428), (303, 20446), (318, 20506), (325, 20527), (343, 20578), (345, 20581), (360, 20650), (407, 20803), (438, 20887), (444, 20905), (447, 20914), (514, 21097), (529, 21121), (538, 21142), (544, 21157), (559, 21205), (589, 21295), (591, 21304), (630, 21397), (635, 21415), (636, 21418), (661, 21490), (682, 21559), (685, 21565), (689, 21580), (694, 21598), (709, 21631), (711, 21634), (728, 21685), (733, 21709), (747, 21751), (760, 21775), (797, 21850), (799, 21853), (835, 21955),

Gene: MiniMac_21 Start: 19529, Stop: 22036, Start Num: 18
Candidate Starts for MiniMac_21:
(Start: 18 @19529 has 19 MA's), (41, 19592), (68, 19664), (83, 19712), (145, 19898), (189, 20024), (196, 20054), (204, 20093), (212, 20123), (235, 20210), (242, 20237), (250, 20270), (253, 20276), (268, 20327), (293, 20414), (295, 20420), (298, 20429), (303, 20447), (318, 20507), (325, 20528), (343, 20579), (345, 20582), (360, 20651), (407, 20804), (438, 20888), (444, 20906), (447, 20915), (514, 21098), (529, 21122), (538, 21143), (544, 21158), (559, 21206), (589, 21296), (591, 21305),

(630, 21398), (635, 21416), (636, 21419), (661, 21491), (682, 21560), (685, 21566), (689, 21581), (694, 21599), (709, 21632), (711, 21635), (728, 21686), (733, 21710), (747, 21752), (760, 21776), (797, 21851), (799, 21854), (835, 21956),

Gene: Minos_28 Start: 35310, Stop: 37331, Start Num: 6
Candidate Starts for Minos_28:
(Start: 6 @35310 has 35 MA's), (14, 35358), (23, 35394), (26, 35412), (30, 35421), (44, 35451), (45, 35454), (84, 35565), (122, 35685), (257, 36162), (261, 36171), (294, 36270), (306, 36315), (327, 36381), (353, 36468), (380, 36603), (394, 36636), (455, 36861), (457, 36867), (509, 37026), (551, 37143), (553, 37149), (566, 37176), (578, 37209), (617, 37305),

Gene: MissDaisy_28 Start: 22035, Stop: 24344, Start Num: 66
Candidate Starts for MissDaisy_28:
(Start: 66 @22035 has 18 MA's), (83, 22083), (87, 22092), (106, 22146), (144, 22179), (185, 22287), (201, 22353), (214, 22416), (228, 22467), (230, 22476), (238, 22509), (252, 22557), (271, 22614), (288, 22674), (291, 22686), (296, 22701), (298, 22707), (306, 22740), (319, 22788), (344, 22842), (364, 22914), (421, 23094), (449, 23175), (502, 23328), (521, 23370), (547, 23439), (569, 23526), (574, 23544), (581, 23571), (596, 23610), (607, 23625), (636, 23721), (685, 23874), (689, 23889), (692, 23895), (701, 23925), (703, 23931), (712, 23958), (718, 23970), (744, 24066), (774, 24120), (783, 24141), (825, 24228), (834, 24258), (859, 24336),

Gene: MitKao_31 Start: 28468, Stop: 30723, Start Num: 37
Candidate Starts for MitKao_31:
(Start: 37 @28468 has 342 MA's), (74, 28564), (98, 28642), (104, 28669), (143, 28768), (192, 28927), (237, 29107), (244, 29131), (269, 29221), (271, 29227), (283, 29263), (295, 29302), (298, 29311), (306, 29344), (316, 29383), (334, 29428), (351, 29479), (361, 29530), (363, 29539), (380, 29608), (410, 29683), (426, 29728), (429, 29743), (469, 29878), (492, 29932), (499, 29953), (509, 29986), (530, 30031), (551, 30085), (563, 30112), (583, 30169), (590, 30190), (614, 30232), (625, 30271), (642, 30331), (728, 30571), (736, 30604), (737, 30607), (751, 30640), (756, 30646), (789, 30709),

Gene: Mithril_28 Start: 28983, Stop: 31280, Start Num: 37
Candidate Starts for Mithril_28:
(Start: 1 @28296 has 1 MA's), (2, 28443), (Start: 37 @28983 has 342 MA's), (74, 29082), (79, 29100), (118, 29223), (143, 29286), (167, 29367), (189, 29433), (218, 29550), (228, 29589), (241, 29640), (244, 29649), (258, 29706), (265, 29730), (266, 29733), (283, 29796), (296, 29838), (300, 29850), (335, 29973), (346, 29997), (354, 30027), (355, 30030), (360, 30060), (392, 30171), (399, 30192), (404, 30213), (410, 30228), (417, 30249), (436, 30315), (440, 30327), (453, 30378), (457, 30381), (460, 30399), (468, 30423), (476, 30450), (492, 30483), (499, 30504), (509, 30537), (530, 30582), (585, 30723), (586, 30726), (590, 30738), (626, 30822), (664, 30936), (672, 30957), (682, 30981), (703, 31044), (710, 31074), (713, 31080), (728, 31128), (736, 31161), (737, 31164), (789, 31266), (790, 31269),

Gene: Mitti_28 Start: 22196, Stop: 24505, Start Num: 66
Candidate Starts for Mitti_28:
(Start: 66 @22196 has 18 MA's), (106, 22307), (143, 22331), (185, 22448), (214, 22577), (230, 22637), (248, 22709), (252, 22718), (271, 22775), (274, 22784), (288, 22835), (291, 22847), (296, 22862), (298, 22868), (306, 22901), (319, 22949), (344, 23003), (364, 23075), (372, 23114), (375, 23126), (382, 23141), (400, 23186), (421, 23255), (449, 23336), (502, 23489), (521, 23531), (543, 23588), (547, 23600), (551, 23630), (574, 23705), (581, 23732), (596, 23771), (607, 23786), (636, 23882), (685, 24035), (689, 24050), (692, 24056), (701, 24086), (703, 24092), (712, 24119), (718, 24131), (744, 24227), (774, 24281), (783, 24302), (825, 24389), (834, 24419), (859, 24497),

Gene: MmasiCarm_31 Start: 28599, Stop: 30824, Start Num: 28

Candidate Starts for MmasiCarm_31:
(Start: 28 @28599 has 52 MA's), (Start: 40 @28614 has 1 MA's), (59, 28659), (79, 28716), (105, 28794), (135, 28863), (143, 28875), (158, 28917), (169, 28953), (179, 28980), (183, 28992), (190, 29019), (211, 29109), (229, 29181), (252, 29265), (286, 29373), (291, 29394), (316, 29487), (323, 29502), (360, 29631), (380, 29712), (410, 29787), (425, 29829), (426, 29835), (436, 29871), (469, 29985), (473, 29997), (492, 30039), (499, 30060), (521, 30114), (530, 30138), (546, 30174), (583, 30270), (586, 30279), (614, 30333), (645, 30441), (656, 30468), (672, 30510), (701, 30582), (728, 30672), (737, 30708),

Gene: MoiGyank_32 Start: 27148, Stop: 29154, Start Num: 5
Candidate Starts for MoiGyank_32:
(Start: 5 @27148 has 38 MA's), (29, 27262), (34, 27271), (39, 27280), (41, 27283), (45, 27292), (73, 27361), (192, 27724), (209, 27799), (244, 27931), (251, 27958), (252, 27961), (254, 27964), (283, 28051), (298, 28099), (300, 28105), (306, 28132), (331, 28210), (344, 28261), (380, 28420), (394, 28453), (419, 28534), (460, 28702), (468, 28726), (551, 28963), (553, 28969), (567, 28999), (578, 29032), (601, 29089), (614, 29119), (617, 29128),

Gene: Moostard_21 Start: 19727, Stop: 22240, Start Num: 18
Candidate Starts for Moostard_21:
(Start: 18 @19727 has 19 MA's), (41, 19790), (68, 19862), (98, 19952), (101, 19958), (127, 20030), (189, 20222), (192, 20234), (196, 20252), (204, 20291), (212, 20321), (228, 20378), (235, 20408), (237, 20414), (250, 20468), (253, 20474), (294, 20621), (295, 20624), (298, 20633), (303, 20651), (318, 20711), (321, 20720), (325, 20732), (343, 20783), (345, 20786), (386, 20951), (407, 21008), (438, 21092), (444, 21110), (447, 21119), (468, 21182), (514, 21302), (538, 21347), (544, 21362), (550, 21380), (559, 21410), (589, 21500), (622, 21569), (630, 21602), (636, 21623), (648, 21659), (661, 21695), (675, 21740), (682, 21764), (685, 21770), (689, 21785), (694, 21803), (709, 21836), (728, 21890), (733, 21914), (744, 21950), (747, 21956), (760, 21980), (832, 22145), (834, 22154), (835, 22160),

Gene: Morgushi_31 Start: 28469, Stop: 30724, Start Num: 37
Candidate Starts for Morgushi_31:
(Start: 37 @28469 has 342 MA's), (74, 28565), (98, 28643), (104, 28670), (143, 28769), (192, 28928), (237, 29108), (244, 29132), (271, 29228), (283, 29264), (295, 29303), (298, 29312), (306, 29345), (316, 29384), (334, 29429), (351, 29480), (361, 29531), (363, 29540), (380, 29609), (410, 29684), (426, 29729), (429, 29744), (469, 29879), (492, 29933), (499, 29954), (509, 29987), (530, 30032), (551, 30086), (563, 30113), (583, 30170), (590, 30191), (614, 30233), (625, 30272), (642, 30332), (728, 30572), (737, 30608), (751, 30641), (789, 30710),

Gene: Mortcellus_30 Start: 29251, Stop: 31476, Start Num: 28
Candidate Starts for Mortcellus_30:
(Start: 28 @29251 has 52 MA's), (Start: 40 @29266 has 1 MA's), (59, 29311), (79, 29368), (105, 29446), (135, 29515), (143, 29527), (158, 29569), (169, 29605), (179, 29632), (183, 29644), (190, 29671), (211, 29761), (229, 29833), (252, 29917), (286, 30025), (291, 30046), (316, 30139), (323, 30154), (360, 30283), (380, 30364), (410, 30439), (425, 30481), (426, 30487), (436, 30523), (469, 30637), (473, 30649), (492, 30691), (499, 30712), (521, 30766), (530, 30790), (546, 30826), (583, 30922), (586, 30931), (614, 30985), (645, 31093), (656, 31120), (672, 31162), (701, 31234), (728, 31324), (737, 31360),

Gene: Morty_31 Start: 28769, Stop: 31024, Start Num: 37
Candidate Starts for Morty_31:
(Start: 37 @28769 has 342 MA's), (74, 28865), (98, 28943), (104, 28970), (143, 29069), (192, 29228), (237, 29408), (244, 29432), (269, 29522), (271, 29528), (283, 29564), (295, 29603), (298, 29612), (306, 29645), (316, 29684), (334, 29729), (351, 29780), (361, 29831), (363, 29840), (380, 29909),

(410, 29984), (426, 30029), (429, 30044), (469, 30179), (492, 30233), (499, 30254), (509, 30287), (530, 30332), (551, 30386), (563, 30413), (583, 30470), (590, 30491), (614, 30533), (625, 30572), (642, 30632), (728, 30872), (736, 30905), (737, 30908), (751, 30941), (756, 30947), (789, 31010),

Gene: Morty007_31 Start: 29395, Stop: 31620, Start Num: 28
Candidate Starts for Morty007_31:
(Start: 28 @29395 has 52 MA's), (Start: 40 @29410 has 1 MA's), (59, 29455), (79, 29512), (105, 29590), (135, 29659), (143, 29671), (158, 29713), (169, 29749), (179, 29776), (183, 29788), (190, 29815), (211, 29905), (229, 29977), (252, 30061), (286, 30169), (291, 30190), (316, 30283), (323, 30298), (360, 30427), (380, 30508), (410, 30583), (425, 30625), (426, 30631), (436, 30667), (469, 30781), (473, 30793), (492, 30835), (499, 30856), (521, 30910), (530, 30934), (583, 31066), (586, 31075), (614, 31129), (645, 31237), (656, 31264), (672, 31306), (701, 31378), (728, 31468), (737, 31504),

Gene: Mosaic_30 Start: 28474, Stop: 30729, Start Num: 37
Candidate Starts for Mosaic_30:
(Start: 37 @28474 has 342 MA's), (74, 28570), (98, 28648), (104, 28675), (143, 28774), (192, 28933), (237, 29113), (244, 29137), (269, 29227), (271, 29233), (283, 29269), (295, 29308), (298, 29317), (306, 29350), (316, 29389), (334, 29434), (351, 29485), (361, 29536), (363, 29545), (380, 29614), (410, 29689), (426, 29734), (429, 29749), (469, 29884), (492, 29938), (499, 29959), (509, 29992), (530, 30037), (551, 30091), (563, 30118), (583, 30175), (590, 30196), (614, 30238), (625, 30277), (642, 30337), (728, 30577), (736, 30610), (737, 30613), (751, 30646), (756, 30652), (789, 30715),

Gene: MrPhizzler_31 Start: 28476, Stop: 30731, Start Num: 37
Candidate Starts for MrPhizzler_31:
(Start: 37 @28476 has 342 MA's), (74, 28572), (98, 28650), (104, 28677), (143, 28776), (192, 28935), (237, 29115), (244, 29139), (271, 29235), (283, 29271), (295, 29310), (298, 29319), (306, 29352), (316, 29391), (334, 29436), (351, 29487), (361, 29538), (363, 29547), (380, 29616), (410, 29691), (426, 29736), (429, 29751), (469, 29886), (492, 29940), (499, 29961), (509, 29994), (530, 30039), (551, 30093), (563, 30120), (583, 30177), (590, 30198), (614, 30240), (625, 30279), (642, 30339), (728, 30579), (737, 30615), (751, 30648), (789, 30717),

Gene: MrWormie_27 Start: 34471, Stop: 36492, Start Num: 6
Candidate Starts for MrWormie_27:
(Start: 6 @34471 has 35 MA's), (14, 34519), (23, 34555), (26, 34573), (30, 34582), (44, 34612), (45, 34615), (84, 34726), (122, 34846), (257, 35323), (261, 35332), (294, 35431), (306, 35476), (327, 35542), (353, 35629), (380, 35764), (394, 35797), (455, 36022), (457, 36028), (509, 36187), (551, 36304), (553, 36310), (566, 36337), (578, 36370), (617, 36466),

Gene: MsGreen_21 Start: 19724, Stop: 22237, Start Num: 18
Candidate Starts for MsGreen_21:
(Start: 18 @19724 has 19 MA's), (41, 19787), (68, 19859), (98, 19949), (101, 19955), (127, 20027), (150, 20114), (189, 20219), (192, 20231), (196, 20249), (204, 20288), (212, 20318), (228, 20375), (235, 20405), (237, 20411), (250, 20465), (253, 20471), (294, 20618), (295, 20621), (298, 20630), (303, 20648), (318, 20708), (321, 20717), (325, 20729), (343, 20780), (345, 20783), (386, 20948), (407, 21005), (438, 21089), (444, 21107), (447, 21116), (468, 21179), (514, 21299), (529, 21323), (538, 21344), (544, 21359), (550, 21377), (559, 21407), (589, 21497), (622, 21566), (630, 21599), (636, 21620), (648, 21656), (661, 21692), (675, 21737), (682, 21761), (685, 21767), (689, 21782), (694, 21800), (728, 21887), (733, 21911), (744, 21947), (747, 21953), (760, 21977), (797, 22052), (799, 22055), (832, 22142), (834, 22151), (835, 22157),

Gene: Msay19_31 Start: 35256, Stop: 37253, Start Num: 6
Candidate Starts for Msay19_31:

(Start: 6 @35256 has 35 MA's), (Start: 20 @35331 has 4 MA's), (32, 35370), (45, 35400), (54, 35427), (56, 35430), (179, 35805), (181, 35814), (229, 36006), (249, 36084), (264, 36126), (288, 36195), (306, 36261), (308, 36279), (327, 36327), (380, 36549), (394, 36582), (415, 36648), (425, 36684), (433, 36720), (457, 36810), (464, 36840), (551, 37062), (553, 37068), (578, 37128), (601, 37185),

Gene: Muddy_24 Start: 19607, Stop: 21925, Start Num: 38
Candidate Starts for Muddy_24:
(Start: 38 @19607 has 2 MA's), (106, 19808), (128, 19853), (131, 19865), (150, 19931), (155, 19943), (168, 19976), (192, 20042), (229, 20183), (262, 20315), (280, 20366), (291, 20405), (297, 20423), (306, 20459), (324, 20519), (351, 20594), (356, 20621), (371, 20684), (395, 20741), (482, 20936), (514, 21005), (527, 21023), (529, 21029), (530, 21032), (531, 21035), (572, 21152), (575, 21158), (612, 21236), (629, 21284), (630, 21287), (655, 21365), (670, 21416), (677, 21431), (681, 21443), (706, 21506), (712, 21527), (720, 21548), (735, 21605), (742, 21626), (760, 21665), (782, 21707), (797, 21740), (801, 21746), (804, 21761), (835, 21845),

Gene: Mudslide_28 Start: 29215, Stop: 31512, Start Num: 37
Candidate Starts for Mudslide_28:
(Start: 1 @28528 has 1 MA's), (2, 28675), (Start: 37 @29215 has 342 MA's), (74, 29314), (79, 29332), (118, 29455), (143, 29518), (167, 29599), (189, 29665), (218, 29782), (228, 29821), (241, 29872), (244, 29881), (258, 29938), (265, 29962), (266, 29965), (283, 30028), (296, 30070), (300, 30082), (334, 30193), (335, 30205), (346, 30229), (360, 30292), (392, 30403), (399, 30424), (410, 30460), (417, 30481), (436, 30547), (440, 30559), (453, 30610), (457, 30613), (460, 30631), (468, 30655), (476, 30682), (492, 30715), (499, 30736), (509, 30769), (530, 30814), (585, 30955), (586, 30958), (588, 30961), (590, 30970), (626, 31054), (664, 31168), (672, 31189), (682, 31213), (703, 31276), (710, 31306), (713, 31312), (728, 31360), (736, 31393), (737, 31396), (789, 31498), (790, 31501),

Gene: Mufasa_23 Start: 18681, Stop: 21020, Start Num: 24
Candidate Starts for Mufasa_23:
(Start: 24 @18681 has 60 MA's), (142, 18921), (181, 19029), (185, 19038), (190, 19059), (195, 19083), (230, 19212), (233, 19224), (252, 19293), (294, 19428), (300, 19446), (306, 19473), (344, 19575), (364, 19647), (373, 19689), (374, 19695), (377, 19704), (380, 19710), (406, 19791), (416, 19812), (428, 19854), (436, 19875), (448, 19905), (476, 19992), (478, 20001), (497, 20037), (518, 20091), (544, 20145), (548, 20157), (568, 20217), (589, 20277), (596, 20295), (613, 20322), (630, 20379), (692, 20568), (706, 20598), (730, 20676), (735, 20697), (750, 20739), (770, 20772), (774, 20781), (783, 20802), (800, 20829), (833, 20910), (839, 20934),

Gene: Mulan_30 Start: 28486, Stop: 30741, Start Num: 37
Candidate Starts for Mulan_30:
(Start: 37 @28486 has 342 MA's), (74, 28582), (98, 28660), (104, 28687), (143, 28786), (192, 28945), (237, 29125), (244, 29149), (269, 29239), (271, 29245), (283, 29281), (295, 29320), (298, 29329), (306, 29362), (316, 29401), (334, 29446), (351, 29497), (361, 29548), (363, 29557), (380, 29626), (410, 29701), (426, 29746), (429, 29761), (469, 29896), (492, 29950), (499, 29971), (509, 30004), (530, 30049), (551, 30103), (583, 30187), (590, 30208), (614, 30250), (625, 30289), (642, 30349), (728, 30589), (736, 30622), (737, 30625), (751, 30658), (756, 30664), (789, 30727),

Gene: Mulaychimus_31 Start: 28581, Stop: 30806, Start Num: 28
Candidate Starts for Mulaychimus_31:
(Start: 28 @28581 has 52 MA's), (Start: 40 @28596 has 1 MA's), (59, 28641), (79, 28698), (105, 28776), (135, 28845), (143, 28857), (158, 28899), (169, 28935), (179, 28962), (183, 28974), (190, 29001), (211, 29091), (229, 29163), (252, 29247), (286, 29355), (291, 29376), (316, 29469), (323, 29484), (360, 29613), (380, 29694), (410, 29769), (425, 29811), (426, 29817), (436, 29853), (453, 29916), (469, 29967), (473, 29979), (492, 30021), (499, 30042), (521, 30096), (530, 30120), (546, 30156), (583, 30252), (586, 30261), (614, 30315), (645, 30423), (656, 30450), (672, 30492), (701,

30564), (728, 30654), (737, 30690),

Gene: Mulch_25 Start: 20607, Stop: 23117, Start Num: 19
Candidate Starts for Mulch_25:
(Start: 19 @20607 has 14 MA's), (74, 20739), (77, 20754), (92, 20799), (102, 20817), (165, 20982), (184, 21036), (186, 21045), (203, 21123), (204, 21129), (247, 21294), (254, 21309), (265, 21345), (288, 21420), (291, 21432), (294, 21441), (296, 21447), (300, 21459), (303, 21471), (306, 21486), (308, 21504), (309, 21507), (323, 21543), (338, 21597), (369, 21720), (384, 21774), (391, 21795), (396, 21804), (423, 21906), (441, 21966), (453, 22014), (454, 22026), (466, 22071), (500, 22158), (513, 22197), (541, 22266), (545, 22278), (549, 22290), (649, 22578), (659, 22608), (683, 22689), (690, 22710), (697, 22737), (705, 22761), (752, 22926), (771, 22971), (811, 23070), (826, 23109),

Gene: Murdoc_31 Start: 28761, Stop: 31016, Start Num: 37
Candidate Starts for Murdoc_31:
(Start: 37 @28761 has 342 MA's), (74, 28857), (98, 28935), (104, 28962), (143, 29061), (192, 29220), (237, 29400), (244, 29424), (269, 29514), (271, 29520), (283, 29556), (295, 29595), (298, 29604), (306, 29637), (316, 29676), (334, 29721), (351, 29772), (361, 29823), (363, 29832), (380, 29901), (410, 29976), (426, 30021), (429, 30036), (469, 30171), (492, 30225), (499, 30246), (509, 30279), (530, 30324), (551, 30378), (563, 30405), (583, 30462), (590, 30483), (614, 30525), (625, 30564), (642, 30624), (728, 30864), (737, 30900), (751, 30933), (789, 31002),

Gene: Mutante_30 Start: 28468, Stop: 30723, Start Num: 37
Candidate Starts for Mutante_30:
(Start: 37 @28468 has 342 MA's), (74, 28564), (98, 28642), (104, 28669), (143, 28768), (192, 28927), (237, 29107), (244, 29131), (269, 29221), (271, 29227), (283, 29263), (295, 29302), (298, 29311), (306, 29344), (316, 29383), (334, 29428), (351, 29479), (361, 29530), (363, 29539), (380, 29608), (410, 29683), (426, 29728), (429, 29743), (469, 29878), (492, 29932), (499, 29953), (509, 29986), (530, 30031), (551, 30085), (563, 30112), (583, 30169), (590, 30190), (614, 30232), (625, 30271), (642, 30331), (728, 30571), (737, 30607), (751, 30640), (789, 30709),

Gene: Mysterious_30 Start: 29235, Stop: 31496, Start Num: 37
Candidate Starts for Mysterious_30:
(Start: 37 @29235 has 342 MA's), (74, 29331), (90, 29388), (97, 29406), (113, 29451), (218, 29799), (245, 29901), (252, 29931), (258, 29955), (265, 29979), (266, 29982), (295, 30072), (300, 30087), (354, 30264), (361, 30300), (368, 30336), (380, 30378), (410, 30453), (426, 30504), (461, 30627), (469, 30654), (492, 30708), (499, 30729), (509, 30762), (583, 30942), (586, 30951), (590, 30963), (625, 31044), (626, 31047), (641, 31101), (645, 31113), (658, 31143), (664, 31161), (689, 31227), (707, 31275), (728, 31344), (789, 31482), (790, 31485),

Gene: Nacho_0031 Start: 28760, Stop: 31018, Start Num: 37
Candidate Starts for Nacho_0031:
(Start: 37 @28760 has 342 MA's), (74, 28856), (98, 28934), (104, 28961), (143, 29063), (192, 29222), (237, 29402), (244, 29426), (271, 29522), (283, 29558), (295, 29597), (298, 29606), (306, 29639), (316, 29678), (334, 29723), (351, 29774), (361, 29825), (363, 29834), (380, 29903), (410, 29978), (426, 30023), (429, 30038), (469, 30173), (492, 30227), (499, 30248), (509, 30281), (530, 30326), (551, 30380), (583, 30464), (590, 30485), (614, 30527), (625, 30566), (642, 30626), (728, 30866), (736, 30899), (737, 30902), (751, 30935), (756, 30941), (789, 31004),

Gene: Nadeem_25 Start: 20607, Stop: 23117, Start Num: 19
Candidate Starts for Nadeem_25:
(Start: 19 @20607 has 14 MA's), (74, 20739), (77, 20754), (92, 20799), (102, 20817), (165, 20982), (184, 21036), (186, 21045), (203, 21123), (204, 21129), (247, 21294), (254, 21309), (265, 21345), (288, 21420), (291, 21432), (294, 21441), (296, 21447), (300, 21459), (303, 21471), (306, 21486),

(308, 21504), (309, 21507), (323, 21543), (338, 21597), (369, 21720), (384, 21774), (391, 21795), (396, 21804), (423, 21906), (441, 21966), (453, 22014), (454, 22026), (466, 22071), (500, 22158), (513, 22197), (541, 22266), (545, 22278), (549, 22290), (649, 22578), (659, 22608), (683, 22689), (690, 22710), (697, 22737), (705, 22761), (752, 22926), (771, 22971), (811, 23070), (826, 23109),

Gene: Nanao_27 Start: 27940, Stop: 30237, Start Num: 37
Candidate Starts for Nanao_27:
(Start: 37 @27940 has 342 MA's), (74, 28039), (104, 28144), (118, 28180), (143, 28243), (167, 28324), (189, 28390), (192, 28402), (218, 28507), (228, 28546), (241, 28597), (244, 28606), (265, 28687), (266, 28690), (283, 28753), (296, 28795), (300, 28807), (335, 28930), (346, 28954), (360, 29017), (367, 29047), (368, 29056), (392, 29128), (399, 29149), (410, 29185), (417, 29206), (436, 29272), (440, 29284), (453, 29335), (457, 29338), (460, 29356), (468, 29380), (476, 29407), (492, 29440), (499, 29461), (509, 29494), (530, 29539), (585, 29680), (586, 29683), (590, 29695), (626, 29779), (672, 29914), (682, 29938), (703, 30001), (710, 30031), (713, 30037), (728, 30085), (736, 30118), (737, 30121), (789, 30223), (790, 30226),

Gene: NancyRae_25 Start: 20613, Stop: 23123, Start Num: 19
Candidate Starts for NancyRae_25:
(Start: 19 @20613 has 14 MA's), (74, 20745), (77, 20760), (92, 20805), (102, 20823), (165, 20988), (184, 21042), (186, 21051), (203, 21129), (204, 21135), (247, 21300), (254, 21315), (265, 21351), (288, 21426), (291, 21438), (294, 21447), (296, 21453), (300, 21465), (303, 21477), (306, 21492), (308, 21510), (309, 21513), (323, 21549), (338, 21603), (366, 21708), (369, 21726), (384, 21780), (391, 21801), (396, 21810), (423, 21912), (441, 21972), (453, 22020), (454, 22032), (466, 22077), (471, 22095), (500, 22164), (513, 22203), (541, 22272), (545, 22284), (549, 22296), (649, 22584), (659, 22614), (683, 22695), (705, 22767), (752, 22932), (771, 22977), (811, 23076), (826, 23115),

Gene: Nangang_30 Start: 28934, Stop: 31201, Start Num: 37
Candidate Starts for Nangang_30:
(Start: 37 @28934 has 342 MA's), (56, 28982), (67, 29012), (74, 29030), (85, 29066), (90, 29087), (97, 29105), (118, 29168), (151, 29273), (192, 29396), (194, 29402), (218, 29501), (245, 29603), (258, 29657), (295, 29777), (300, 29792), (306, 29819), (361, 30005), (368, 30041), (380, 30083), (410, 30158), (426, 30209), (436, 30245), (453, 30308), (461, 30332), (469, 30359), (521, 30488), (530, 30512), (583, 30647), (586, 30656), (590, 30668), (614, 30710), (625, 30749), (626, 30752), (641, 30806), (645, 30818), (658, 30848), (664, 30866), (689, 30932), (728, 31049), (789, 31187),

Gene: Nathan_31 Start: 28793, Stop: 31054, Start Num: 37
Candidate Starts for Nathan_31:
(Start: 37 @28793 has 342 MA's), (74, 28889), (98, 28967), (104, 28994), (133, 29069), (143, 29099), (192, 29258), (237, 29438), (244, 29462), (271, 29558), (283, 29594), (295, 29633), (298, 29642), (306, 29675), (316, 29714), (334, 29759), (351, 29810), (363, 29870), (380, 29939), (410, 30014), (426, 30059), (429, 30074), (469, 30209), (492, 30263), (499, 30284), (509, 30317), (530, 30362), (551, 30416), (563, 30443), (583, 30500), (590, 30521), (614, 30563), (625, 30602), (642, 30662), (728, 30902), (737, 30938), (751, 30971), (789, 31040),

Gene: Nehemiah_29 Start: 29235, Stop: 31499, Start Num: 37
Candidate Starts for Nehemiah_29:
(Start: 37 @29235 has 342 MA's), (57, 29286), (74, 29331), (90, 29388), (97, 29406), (113, 29451), (218, 29802), (245, 29904), (252, 29934), (258, 29958), (265, 29982), (266, 29985), (295, 30075), (300, 30090), (354, 30267), (361, 30303), (368, 30339), (380, 30381), (410, 30456), (426, 30507), (461, 30630), (469, 30657), (492, 30711), (499, 30732), (509, 30765), (583, 30945), (586, 30954), (590, 30966), (625, 31047), (626, 31050), (641, 31104), (645, 31116), (658, 31146), (664, 31164), (689, 31230), (707, 31278), (728, 31347), (789, 31485), (790, 31488),

Gene: Nehme_30 Start: 28495, Stop: 30750, Start Num: 37
Candidate Starts for Nehme_30:
(Start: 37 @28495 has 342 MA's), (74, 28591), (98, 28669), (104, 28696), (143, 28795), (192, 28954), (237, 29134), (244, 29158), (271, 29254), (283, 29290), (295, 29329), (298, 29338), (306, 29371), (316, 29410), (334, 29455), (351, 29506), (363, 29566), (380, 29635), (410, 29710), (426, 29755), (429, 29770), (469, 29905), (492, 29959), (499, 29980), (509, 30013), (530, 30058), (551, 30112), (563, 30139), (583, 30196), (590, 30217), (614, 30259), (625, 30298), (642, 30358), (728, 30598), (737, 30634), (751, 30667), (789, 30736),

Gene: Neoevie_27 Start: 35583, Stop: 37607, Start Num: 6
Candidate Starts for Neoevie_27:
(Start: 6 @35583 has 35 MA's), (14, 35631), (23, 35667), (26, 35685), (30, 35694), (44, 35724), (45, 35727), (84, 35838), (122, 35958), (257, 36435), (261, 36444), (294, 36543), (306, 36588), (327, 36654), (353, 36741), (380, 36876), (394, 36909), (479, 37221), (506, 37287), (509, 37299), (541, 37380), (551, 37416), (553, 37422), (566, 37449), (578, 37482), (617, 37578),

Gene: Neos5_31 Start: 29411, Stop: 31639, Start Num: 28
Candidate Starts for Neos5_31:
(Start: 28 @29411 has 52 MA's), (Start: 40 @29426 has 1 MA's), (59, 29471), (79, 29528), (105, 29606), (135, 29675), (143, 29687), (158, 29729), (169, 29765), (179, 29792), (183, 29804), (190, 29831), (211, 29921), (217, 29945), (229, 29993), (252, 30077), (286, 30185), (291, 30206), (316, 30299), (323, 30314), (360, 30443), (380, 30524), (410, 30599), (426, 30647), (453, 30746), (469, 30797), (473, 30809), (492, 30851), (499, 30872), (521, 30926), (530, 30950), (546, 30986), (583, 31085), (586, 31094), (614, 31148), (645, 31256), (656, 31283), (672, 31325), (701, 31397), (728, 31487), (737, 31523),

Gene: Nettle_30 Start: 27002, Stop: 29008, Start Num: 5
Candidate Starts for Nettle_30:
(Start: 5 @27002 has 38 MA's), (29, 27116), (34, 27125), (39, 27134), (41, 27137), (45, 27146), (73, 27215), (136, 27401), (192, 27578), (209, 27653), (233, 27746), (244, 27785), (252, 27815), (264, 27851), (269, 27866), (283, 27905), (298, 27953), (300, 27959), (306, 27986), (331, 28064), (344, 28115), (380, 28274), (394, 28307), (468, 28580), (541, 28781), (551, 28817), (553, 28823), (578, 28883),

Gene: Newman_31 Start: 28756, Stop: 31014, Start Num: 37
Candidate Starts for Newman_31:
(Start: 37 @28756 has 342 MA's), (74, 28852), (98, 28930), (104, 28957), (143, 29059), (192, 29218), (237, 29398), (244, 29422), (271, 29518), (283, 29554), (295, 29593), (298, 29602), (306, 29635), (316, 29674), (334, 29719), (351, 29770), (361, 29821), (363, 29830), (380, 29899), (410, 29974), (426, 30019), (429, 30034), (469, 30169), (492, 30223), (499, 30244), (509, 30277), (530, 30322), (551, 30376), (583, 30460), (590, 30481), (614, 30523), (625, 30562), (642, 30622), (728, 30862), (736, 30895), (737, 30898), (751, 30931), (756, 30937), (789, 31000),

Gene: Newt_28 Start: 35810, Stop: 37834, Start Num: 6
Candidate Starts for Newt_28:
(Start: 6 @35810 has 35 MA's), (14, 35858), (23, 35894), (26, 35912), (30, 35921), (44, 35951), (45, 35954), (84, 36065), (122, 36185), (257, 36662), (261, 36671), (294, 36770), (306, 36815), (327, 36881), (353, 36968), (380, 37103), (394, 37136), (479, 37448), (506, 37514), (509, 37526), (541, 37607), (551, 37643), (553, 37649), (566, 37676), (578, 37709),

Gene: NiaNia_32 Start: 28491, Stop: 30746, Start Num: 37
Candidate Starts for NiaNia_32:

(Start: 37 @28491 has 342 MA's), (74, 28587), (98, 28665), (104, 28692), (143, 28791), (192, 28950), (237, 29130), (244, 29154), (269, 29244), (271, 29250), (283, 29286), (295, 29325), (298, 29334), (306, 29367), (316, 29406), (334, 29451), (351, 29502), (361, 29553), (363, 29562), (380, 29631), (410, 29706), (426, 29751), (429, 29766), (469, 29901), (492, 29955), (499, 29976), (509, 30009), (530, 30054), (551, 30108), (563, 30135), (583, 30192), (590, 30213), (614, 30255), (625, 30294), (642, 30354), (728, 30594), (736, 30627), (737, 30630), (751, 30663), (756, 30669), (789, 30732),

Gene: Nicholas_21 Start: 19724, Stop: 22237, Start Num: 18
Candidate Starts for Nicholas_21:
(Start: 18 @19724 has 19 MA's), (41, 19787), (68, 19859), (98, 19949), (101, 19955), (127, 20027), (150, 20114), (189, 20219), (192, 20231), (196, 20249), (204, 20288), (212, 20318), (228, 20375), (235, 20405), (237, 20411), (250, 20465), (253, 20471), (294, 20618), (295, 20621), (298, 20630), (303, 20648), (318, 20708), (321, 20717), (325, 20729), (343, 20780), (345, 20783), (386, 20948), (407, 21005), (438, 21089), (444, 21107), (447, 21116), (468, 21179), (514, 21299), (529, 21323), (538, 21344), (544, 21359), (550, 21377), (559, 21407), (589, 21497), (622, 21566), (630, 21599), (636, 21620), (648, 21656), (661, 21692), (675, 21737), (682, 21761), (685, 21767), (689, 21782), (694, 21800), (728, 21887), (733, 21911), (744, 21947), (747, 21953), (760, 21977), (797, 22052), (799, 22055), (832, 22142), (834, 22151), (835, 22157),

Gene: Nicole21_31 Start: 28758, Stop: 31013, Start Num: 37
Candidate Starts for Nicole21_31:
(Start: 37 @28758 has 342 MA's), (74, 28854), (98, 28932), (104, 28959), (143, 29058), (192, 29217), (237, 29397), (244, 29421), (269, 29511), (271, 29517), (283, 29553), (295, 29592), (298, 29601), (306, 29634), (316, 29673), (334, 29718), (351, 29769), (361, 29820), (363, 29829), (380, 29898), (410, 29973), (426, 30018), (429, 30033), (469, 30168), (492, 30222), (499, 30243), (509, 30276), (530, 30321), (551, 30375), (563, 30402), (583, 30459), (590, 30480), (614, 30522), (625, 30561), (642, 30621), (728, 30861), (736, 30894), (737, 30897), (751, 30930), (756, 30936), (789, 30999),

Gene: Nigel_26 Start: 27851, Stop: 30148, Start Num: 37
Candidate Starts for Nigel_26:
(4, 27722), (Start: 37 @27851 has 342 MA's), (74, 27950), (79, 27968), (143, 28154), (155, 28199), (167, 28235), (189, 28301), (218, 28418), (228, 28457), (229, 28463), (265, 28598), (266, 28601), (283, 28664), (296, 28706), (300, 28718), (346, 28865), (360, 28928), (368, 28967), (392, 29039), (399, 29060), (404, 29081), (410, 29096), (417, 29117), (426, 29147), (436, 29183), (440, 29195), (453, 29246), (457, 29249), (460, 29267), (468, 29291), (469, 29297), (492, 29351), (499, 29372), (521, 29426), (530, 29450), (583, 29585), (585, 29591), (586, 29594), (588, 29597), (590, 29606), (672, 29825), (682, 29849), (703, 29912), (713, 29948), (723, 29981), (728, 29996), (736, 30029), (737, 30032), (789, 30134), (790, 30137),

Gene: Nikao_23 Start: 20414, Stop: 22900, Start Num: 24
Candidate Starts for Nikao_23:
(Start: 24 @20414 has 60 MA's), (44, 20462), (142, 20642), (143, 20645), (164, 20708), (169, 20720), (204, 20852), (214, 20891), (229, 20948), (235, 20972), (238, 20984), (252, 21032), (254, 21035), (267, 21068), (277, 21107), (288, 21140), (291, 21152), (294, 21161), (296, 21167), (311, 21233), (317, 21248), (352, 21359), (357, 21392), (377, 21476), (385, 21491), (406, 21551), (430, 21620), (462, 21740), (496, 21833), (541, 21947), (565, 22025), (568, 22031), (574, 22055), (594, 22118), (596, 22121), (603, 22133), (625, 22199), (627, 22205), (639, 22247), (644, 22268), (645, 22277), (657, 22310), (663, 22328), (685, 22397), (721, 22496), (722, 22502), (728, 22520), (742, 22574), (747, 22589), (766, 22616), (793, 22673), (807, 22703),

Gene: Niklas_27 Start: 20233, Stop: 22734, Start Num: 24
Candidate Starts for Niklas_27:

(Start: 24 @20233 has 60 MA's), (44, 20281), (63, 20332), (89, 20404), (141, 20455), (144, 20473), (155, 20506), (164, 20527), (169, 20539), (188, 20593), (204, 20671), (214, 20710), (229, 20767), (238, 20803), (254, 20854), (267, 20884), (272, 20899), (277, 20923), (288, 20956), (294, 20977), (296, 20983), (306, 21022), (352, 21175), (357, 21208), (360, 21220), (374, 21283), (406, 21367), (459, 21550), (476, 21604), (496, 21646), (565, 21838), (568, 21844), (574, 21868), (594, 21931), (614, 21970), (633, 22033), (645, 22090), (657, 22123), (663, 22141), (675, 22180), (687, 22219), (689, 22225), (709, 22282), (744, 22396), (775, 22450), (782, 22465), (796, 22495), (803, 22507), (823, 22564), (829, 22582), (837, 22612), (838, 22630), (858, 22711),

Gene: Nimi13_27 Start: 35328, Stop: 37352, Start Num: 6
Candidate Starts for Nimi13_27:
(Start: 6 @35328 has 35 MA's), (14, 35376), (23, 35412), (26, 35430), (30, 35439), (44, 35469), (45, 35472), (84, 35583), (122, 35703), (257, 36180), (261, 36189), (294, 36288), (306, 36333), (327, 36399), (353, 36486), (380, 36621), (394, 36654), (479, 36966), (506, 37032), (509, 37044), (541, 37125), (551, 37161), (553, 37167), (566, 37194), (578, 37227),

Gene: Nolwazi_29 Start: 22197, Stop: 24506, Start Num: 66
Candidate Starts for Nolwazi_29:
(Start: 66 @22197 has 18 MA's), (102, 22287), (106, 22308), (143, 22332), (185, 22449), (214, 22578), (228, 22629), (230, 22638), (248, 22710), (252, 22719), (271, 22776), (274, 22785), (288, 22836), (291, 22848), (296, 22863), (298, 22869), (306, 22902), (319, 22950), (344, 23004), (364, 23076), (372, 23115), (375, 23127), (382, 23142), (400, 23187), (421, 23256), (449, 23337), (502, 23490), (521, 23532), (543, 23589), (547, 23601), (574, 23706), (596, 23772), (607, 23787), (636, 23883), (685, 24036), (689, 24051), (692, 24057), (698, 24081), (712, 24120), (718, 24132), (744, 24228), (774, 24282), (783, 24303), (825, 24390), (834, 24420), (859, 24498),

Gene: NorManre_31 Start: 26355, Stop: 28355, Start Num: 5
Candidate Starts for NorManre_31:
(Start: 5 @26355 has 38 MA's), (29, 26469), (34, 26478), (39, 26487), (41, 26490), (45, 26499), (73, 26568), (192, 26931), (209, 27006), (244, 27138), (251, 27165), (252, 27168), (254, 27171), (283, 27258), (298, 27306), (300, 27312), (306, 27339), (331, 27417), (344, 27468), (380, 27627), (394, 27660), (468, 27933), (473, 27951), (551, 28167), (553, 28173), (562, 28191), (578, 28233), (601, 28290), (614, 28320), (617, 28329),

Gene: NosilaM_46 Start: 33220, Stop: 35778, Start Num: 78
Candidate Starts for NosilaM_46:
(Start: 78 @33220 has 15 MA's), (120, 33349), (223, 33688), (224, 33691), (238, 33748), (287, 33901), (306, 33967), (307, 33982), (443, 34423), (574, 34801), (614, 34906), (620, 34924), (628, 34957), (634, 34978), (650, 35032), (686, 35137), (693, 35164), (696, 35170), (724, 35260), (754, 35356), (756, 35359), (787, 35422), (803, 35455), (819, 35503), (830, 35536), (835, 35557), (852, 35644), (856, 35659), (863, 35749), (864, 35770),

Gene: Nova1_30 Start: 28417, Stop: 30672, Start Num: 37
Candidate Starts for Nova1_30:
(Start: 37 @28417 has 342 MA's), (74, 28513), (98, 28591), (104, 28618), (143, 28717), (192, 28876), (237, 29056), (244, 29080), (269, 29170), (271, 29176), (283, 29212), (295, 29251), (298, 29260), (306, 29293), (316, 29332), (334, 29377), (351, 29428), (361, 29479), (363, 29488), (380, 29557), (410, 29632), (426, 29677), (429, 29692), (469, 29827), (492, 29881), (499, 29902), (509, 29935), (530, 29980), (551, 30034), (563, 30061), (583, 30118), (590, 30139), (614, 30181), (625, 30220), (642, 30280), (728, 30520), (736, 30553), (737, 30556), (751, 30589), (756, 30595), (789, 30658),

Gene: NovaSharks_29 Start: 24347, Stop: 26347, Start Num: 5
Candidate Starts for NovaSharks_29:

(Start: 5 @24347 has 38 MA's), (29, 24461), (34, 24470), (39, 24479), (41, 24482), (45, 24491), (73, 24560), (136, 24746), (192, 24923), (244, 25130), (252, 25160), (264, 25196), (269, 25211), (283, 25250), (298, 25298), (300, 25304), (306, 25331), (327, 25397), (353, 25484), (380, 25619), (394, 25652), (397, 25664), (433, 25793), (455, 25877), (506, 26030), (509, 26042), (541, 26123), (551, 26159), (553, 26165), (578, 26225), (617, 26321),

Gene: November_25 Start: 21214, Stop: 23631, Start Num: 24
Candidate Starts for November_25:
(Start: 24 @21214 has 60 MA's), (26, 21223), (44, 21262), (89, 21385), (142, 21442), (144, 21454), (159, 21496), (228, 21742), (254, 21835), (271, 21877), (272, 21880), (276, 21901), (294, 21961), (296, 21967), (323, 22063), (352, 22159), (377, 22276), (424, 22384), (427, 22402), (431, 22414), (480, 22558), (542, 22693), (543, 22696), (544, 22699), (557, 22738), (574, 22792), (583, 22825), (591, 22846), (625, 22933), (633, 22954), (635, 22966), (670, 23083), (674, 23089), (718, 23218), (721, 23230), (727, 23251), (742, 23305), (755, 23335), (768, 23356), (782, 23383), (785, 23389), (817, 23458), (845, 23563), (860, 23623),

Gene: Nozo_31 Start: 29375, Stop: 31600, Start Num: 28
Candidate Starts for Nozo_31:
(Start: 28 @29375 has 52 MA's), (Start: 40 @29390 has 1 MA's), (59, 29435), (79, 29492), (105, 29570), (135, 29639), (143, 29651), (158, 29693), (169, 29729), (179, 29756), (183, 29768), (190, 29795), (211, 29885), (229, 29957), (252, 30041), (286, 30149), (291, 30170), (316, 30263), (323, 30278), (360, 30407), (380, 30488), (410, 30563), (425, 30605), (426, 30611), (453, 30710), (469, 30761), (473, 30773), (492, 30815), (499, 30836), (521, 30890), (530, 30914), (546, 30950), (583, 31046), (586, 31055), (614, 31109), (645, 31217), (656, 31244), (672, 31286), (701, 31358), (728, 31448), (737, 31484),

Gene: Numberten_31 Start: 28766, Stop: 31021, Start Num: 37
Candidate Starts for Numberten_31:
(Start: 37 @28766 has 342 MA's), (74, 28862), (98, 28940), (104, 28967), (143, 29066), (192, 29225), (237, 29405), (244, 29429), (269, 29519), (271, 29525), (283, 29561), (295, 29600), (298, 29609), (306, 29642), (316, 29681), (334, 29726), (351, 29777), (361, 29828), (363, 29837), (380, 29906), (410, 29981), (426, 30026), (429, 30041), (469, 30176), (492, 30230), (499, 30251), (509, 30284), (530, 30329), (551, 30383), (563, 30410), (583, 30467), (590, 30488), (614, 30530), (625, 30569), (642, 30629), (728, 30869), (736, 30902), (737, 30905), (751, 30938), (756, 30944), (789, 31007),

Gene: Nutello_23 Start: 20414, Stop: 22900, Start Num: 24
Candidate Starts for Nutello_23:
(Start: 24 @20414 has 60 MA's), (44, 20462), (142, 20642), (143, 20645), (164, 20708), (169, 20720), (204, 20852), (214, 20891), (229, 20948), (235, 20972), (238, 20984), (252, 21032), (254, 21035), (267, 21068), (277, 21107), (288, 21140), (291, 21152), (294, 21161), (296, 21167), (311, 21233), (317, 21248), (352, 21359), (357, 21392), (377, 21476), (385, 21491), (406, 21551), (430, 21620), (462, 21740), (496, 21833), (541, 21947), (565, 22025), (568, 22031), (574, 22055), (594, 22118), (596, 22121), (603, 22133), (625, 22199), (627, 22205), (639, 22247), (644, 22268), (645, 22277), (657, 22310), (663, 22328), (685, 22397), (721, 22496), (722, 22502), (728, 22520), (742, 22574), (747, 22589), (766, 22616), (793, 22673),

Gene: Nyala_30 Start: 28460, Stop: 30715, Start Num: 37
Candidate Starts for Nyala_30:
(Start: 37 @28460 has 342 MA's), (74, 28556), (98, 28634), (104, 28661), (143, 28760), (192, 28919), (237, 29099), (244, 29123), (269, 29213), (271, 29219), (283, 29255), (295, 29294), (298, 29303), (306, 29336), (316, 29375), (334, 29420), (351, 29471), (361, 29522), (363, 29531), (380, 29600), (410, 29675), (426, 29720), (429, 29735), (469, 29870), (492, 29924), (499, 29945), (509, 29978), (530, 30023), (551, 30077), (563, 30104), (583, 30161), (590, 30182), (614, 30224), (625, 30263),

(642, 30323), (728, 30563), (736, 30596), (737, 30599), (751, 30632), (756, 30638), (789, 30701),

Gene: OSmaximus_31 Start: 28795, Stop: 31056, Start Num: 37
Candidate Starts for OSmaximus_31:
(Start: 37 @28795 has 342 MA's), (74, 28891), (98, 28969), (104, 28996), (133, 29071), (143, 29101), (192, 29260), (237, 29440), (244, 29464), (271, 29560), (283, 29596), (295, 29635), (298, 29644), (306, 29677), (316, 29716), (334, 29761), (351, 29812), (363, 29872), (380, 29941), (410, 30016), (426, 30061), (429, 30076), (469, 30211), (492, 30265), (499, 30286), (509, 30319), (530, 30364), (551, 30418), (563, 30445), (583, 30502), (590, 30523), (614, 30565), (625, 30604), (642, 30664), (728, 30904), (737, 30940), (751, 30973), (789, 31042),

Gene: Obutu_31 Start: 28599, Stop: 30824, Start Num: 28
Candidate Starts for Obutu_31:
(Start: 28 @28599 has 52 MA's), (59, 28659), (79, 28716), (135, 28863), (143, 28875), (158, 28917), (169, 28953), (179, 28980), (183, 28992), (190, 29019), (211, 29109), (229, 29181), (252, 29265), (286, 29373), (291, 29394), (316, 29487), (323, 29502), (360, 29631), (380, 29712), (410, 29787), (425, 29829), (426, 29835), (436, 29871), (469, 29985), (473, 29997), (492, 30039), (499, 30060), (521, 30114), (530, 30138), (546, 30174), (583, 30270), (586, 30279), (614, 30333), (645, 30441), (656, 30468), (672, 30510), (701, 30582), (728, 30672), (737, 30708),

Gene: Olak_30 Start: 28464, Stop: 30719, Start Num: 37
Candidate Starts for Olak_30:
(Start: 37 @28464 has 342 MA's), (74, 28560), (98, 28638), (104, 28665), (143, 28764), (192, 28923), (237, 29103), (244, 29127), (269, 29217), (271, 29223), (283, 29259), (295, 29298), (298, 29307), (306, 29340), (316, 29379), (334, 29424), (351, 29475), (361, 29526), (363, 29535), (380, 29604), (410, 29679), (426, 29724), (429, 29739), (469, 29874), (492, 29928), (499, 29949), (509, 29982), (530, 30027), (551, 30081), (583, 30165), (590, 30186), (614, 30228), (625, 30267), (642, 30327), (728, 30567), (736, 30600), (737, 30603), (751, 30636), (756, 30642), (789, 30705),

Gene: Oline_30 Start: 28329, Stop: 30584, Start Num: 37
Candidate Starts for Oline_30:
(Start: 37 @28329 has 342 MA's), (74, 28425), (98, 28503), (104, 28530), (143, 28629), (192, 28788), (237, 28968), (244, 28992), (271, 29088), (283, 29124), (295, 29163), (298, 29172), (306, 29205), (316, 29244), (334, 29289), (351, 29340), (361, 29391), (363, 29400), (380, 29469), (410, 29544), (426, 29589), (429, 29604), (469, 29739), (492, 29793), (499, 29814), (509, 29847), (530, 29892), (551, 29946), (563, 29973), (583, 30030), (590, 30051), (614, 30093), (625, 30132), (642, 30192), (728, 30432), (736, 30465), (737, 30468), (751, 30501), (756, 30507), (789, 30570),

Gene: Olive_31 Start: 28750, Stop: 31005, Start Num: 37
Candidate Starts for Olive_31:
(Start: 37 @28750 has 342 MA's), (74, 28846), (98, 28924), (104, 28951), (143, 29050), (192, 29209), (237, 29389), (244, 29413), (269, 29503), (271, 29509), (283, 29545), (295, 29584), (298, 29593), (306, 29626), (316, 29665), (334, 29710), (351, 29761), (361, 29812), (363, 29821), (380, 29890), (410, 29965), (426, 30010), (429, 30025), (469, 30160), (492, 30214), (499, 30235), (509, 30268), (530, 30313), (551, 30367), (583, 30451), (590, 30472), (614, 30514), (625, 30553), (642, 30613), (728, 30853), (736, 30886), (737, 30889), (751, 30922), (756, 30928), (789, 30991),

Gene: OliverWalter_31 Start: 28769, Stop: 31027, Start Num: 37
Candidate Starts for OliverWalter_31:
(Start: 37 @28769 has 342 MA's), (74, 28865), (98, 28943), (104, 28970), (143, 29072), (192, 29231), (237, 29411), (244, 29435), (271, 29531), (283, 29567), (295, 29606), (298, 29615), (306, 29648), (316, 29687), (334, 29732), (351, 29783), (361, 29834), (363, 29843), (380, 29912), (410, 29987), (426, 30032), (429, 30047), (469, 30182), (492, 30236), (499, 30257), (509, 30290), (530, 30335),

(551, 30389), (583, 30473), (590, 30494), (614, 30536), (625, 30575), (642, 30635), (728, 30875), (736, 30908), (737, 30911), (751, 30944), (756, 30950), (789, 31013),

Gene: Olivio_30 Start: 28468, Stop: 30693, Start Num: 28
Candidate Starts for Olivio_30:
(Start: 28 @28468 has 52 MA's), (Start: 40 @28483 has 1 MA's), (59, 28528), (79, 28585), (105, 28663), (135, 28732), (143, 28744), (158, 28786), (169, 28822), (179, 28849), (183, 28861), (190, 28888), (211, 28978), (229, 29050), (252, 29134), (286, 29242), (291, 29263), (316, 29356), (323, 29371), (360, 29500), (380, 29581), (410, 29656), (425, 29698), (426, 29704), (436, 29740), (453, 29803), (469, 29854), (473, 29866), (492, 29908), (499, 29929), (521, 29983), (530, 30007), (546, 30043), (583, 30139), (586, 30148), (614, 30202), (645, 30310), (656, 30337), (672, 30379), (701, 30451), (728, 30541), (737, 30577),

Gene: OmniCritical_28 Start: 22181, Stop: 24490, Start Num: 66
Candidate Starts for OmniCritical_28:
(Start: 66 @22181 has 18 MA's), (106, 22292), (143, 22316), (185, 22433), (214, 22562), (228, 22613), (230, 22622), (248, 22694), (252, 22703), (271, 22760), (274, 22769), (288, 22820), (291, 22832), (296, 22847), (298, 22853), (306, 22886), (319, 22934), (344, 22988), (364, 23060), (372, 23099), (375, 23111), (382, 23126), (400, 23171), (421, 23240), (449, 23321), (502, 23474), (543, 23573), (547, 23585), (574, 23690), (596, 23756), (607, 23771), (636, 23867), (685, 24020), (689, 24035), (692, 24041), (698, 24065), (712, 24104), (744, 24212), (772, 24263), (774, 24266), (825, 24374), (834, 24404), (859, 24482),

Gene: Omniscient_31 Start: 28769, Stop: 31024, Start Num: 37
Candidate Starts for Omniscient_31:
(Start: 37 @28769 has 342 MA's), (74, 28865), (98, 28943), (104, 28970), (143, 29069), (192, 29228), (237, 29408), (244, 29432), (269, 29522), (271, 29528), (283, 29564), (295, 29603), (298, 29612), (306, 29645), (316, 29684), (334, 29729), (351, 29780), (361, 29831), (363, 29840), (380, 29909), (410, 29984), (426, 30029), (429, 30044), (469, 30179), (492, 30233), (499, 30254), (509, 30287), (530, 30332), (551, 30386), (563, 30413), (583, 30470), (590, 30491), (614, 30533), (625, 30572), (642, 30632), (728, 30872), (736, 30905), (737, 30908), (751, 30941), (756, 30947), (789, 31010),

Gene: OneBrain_31 Start: 28468, Stop: 30723, Start Num: 37
Candidate Starts for OneBrain_31:
(Start: 37 @28468 has 342 MA's), (74, 28564), (98, 28642), (104, 28669), (143, 28768), (192, 28927), (237, 29107), (244, 29131), (271, 29227), (283, 29263), (295, 29302), (298, 29311), (306, 29344), (316, 29383), (334, 29428), (351, 29479), (361, 29530), (363, 29539), (380, 29608), (410, 29683), (426, 29728), (429, 29743), (469, 29878), (492, 29932), (499, 29953), (509, 29986), (530, 30031), (551, 30085), (563, 30112), (583, 30169), (590, 30190), (614, 30232), (625, 30271), (642, 30331), (728, 30571), (737, 30607), (751, 30640), (789, 30709),

Gene: Oosterbaan_31 Start: 28760, Stop: 31015, Start Num: 37
Candidate Starts for Oosterbaan_31:
(Start: 37 @28760 has 342 MA's), (74, 28856), (98, 28934), (104, 28961), (143, 29060), (192, 29219), (237, 29399), (244, 29423), (269, 29513), (271, 29519), (283, 29555), (295, 29594), (298, 29603), (306, 29636), (316, 29675), (334, 29720), (351, 29771), (361, 29822), (363, 29831), (380, 29900), (410, 29975), (426, 30020), (429, 30035), (469, 30170), (492, 30224), (499, 30245), (509, 30278), (530, 30323), (551, 30377), (563, 30404), (583, 30461), (590, 30482), (614, 30524), (625, 30563), (642, 30623), (728, 30863), (737, 30899), (751, 30932), (789, 31001),

Gene: OrangeOswald_31 Start: 28613, Stop: 30841, Start Num: 28
Candidate Starts for OrangeOswald_31:

(Start: 28 @28613 has 52 MA's), (Start: 40 @28628 has 1 MA's), (59, 28673), (79, 28730), (105, 28808), (135, 28877), (143, 28889), (158, 28931), (169, 28967), (179, 28994), (183, 29006), (190, 29033), (211, 29123), (229, 29195), (252, 29279), (286, 29387), (291, 29408), (316, 29501), (323, 29516), (360, 29645), (380, 29726), (410, 29801), (425, 29843), (426, 29849), (469, 29999), (473, 30011), (492, 30053), (499, 30074), (521, 30128), (530, 30152), (583, 30287), (586, 30296), (614, 30350), (645, 30458), (656, 30485), (672, 30527), (701, 30599), (728, 30689), (737, 30725),

Gene: Orfeu_30 Start: 28468, Stop: 30723, Start Num: 37
Candidate Starts for Orfeu_30:
(Start: 37 @28468 has 342 MA's), (74, 28564), (98, 28642), (104, 28669), (143, 28768), (192, 28927), (237, 29107), (244, 29131), (269, 29221), (271, 29227), (283, 29263), (295, 29302), (298, 29311), (306, 29344), (316, 29383), (334, 29428), (351, 29479), (361, 29530), (363, 29539), (380, 29608), (410, 29683), (426, 29728), (429, 29743), (469, 29878), (492, 29932), (499, 29953), (509, 29986), (530, 30031), (551, 30085), (563, 30112), (583, 30169), (590, 30190), (614, 30232), (625, 30271), (642, 30331), (728, 30571), (736, 30604), (737, 30607), (751, 30640), (756, 30646), (789, 30709),

Gene: Orion_31 Start: 28758, Stop: 31013, Start Num: 37
Candidate Starts for Orion_31:
(Start: 37 @28758 has 342 MA's), (74, 28854), (98, 28932), (104, 28959), (143, 29058), (192, 29217), (237, 29397), (244, 29421), (269, 29511), (271, 29517), (283, 29553), (295, 29592), (298, 29601), (306, 29634), (316, 29673), (334, 29718), (351, 29769), (361, 29820), (363, 29829), (380, 29898), (410, 29973), (426, 30018), (429, 30033), (469, 30168), (492, 30222), (499, 30243), (509, 30276), (530, 30321), (551, 30375), (583, 30459), (590, 30480), (614, 30522), (625, 30561), (642, 30621), (728, 30861), (736, 30894), (737, 30897), (751, 30930), (756, 30936), (789, 30999),

Gene: Orwigg_30 Start: 28456, Stop: 30711, Start Num: 37
Candidate Starts for Orwigg_30:
(Start: 37 @28456 has 342 MA's), (74, 28552), (98, 28630), (104, 28657), (143, 28756), (192, 28915), (237, 29095), (244, 29119), (269, 29209), (271, 29215), (283, 29251), (295, 29290), (298, 29299), (306, 29332), (316, 29371), (334, 29416), (351, 29467), (361, 29518), (363, 29527), (380, 29596), (410, 29671), (426, 29716), (429, 29731), (469, 29866), (492, 29920), (499, 29941), (509, 29974), (530, 30019), (551, 30073), (563, 30100), (583, 30157), (590, 30178), (614, 30220), (625, 30259), (642, 30319), (728, 30559), (736, 30592), (737, 30595), (751, 30628), (756, 30634), (789, 30697),

Gene: OtterstedtS21_30 Start: 26433, Stop: 28433, Start Num: 5
Candidate Starts for OtterstedtS21_30:
(Start: 5 @26433 has 38 MA's), (29, 26547), (34, 26556), (39, 26565), (41, 26568), (45, 26577), (73, 26646), (91, 26703), (192, 27009), (209, 27084), (244, 27216), (251, 27243), (252, 27246), (254, 27249), (283, 27336), (298, 27384), (300, 27390), (306, 27417), (309, 27438), (353, 27570), (376, 27693), (380, 27705), (394, 27738), (397, 27750), (468, 28011), (541, 28212), (551, 28248), (553, 28254), (578, 28314),

Gene: Outis_44 Start: 33201, Stop: 35759, Start Num: 78
Candidate Starts for Outis_44:
(Start: 78 @33201 has 15 MA's), (81, 33210), (120, 33330), (223, 33669), (224, 33672), (238, 33729), (287, 33882), (307, 33963), (339, 34053), (420, 34320), (443, 34404), (537, 34674), (574, 34782), (614, 34887), (620, 34905), (628, 34938), (632, 34947), (659, 35037), (672, 35082), (685, 35115), (686, 35118), (696, 35151), (732, 35271), (740, 35295), (741, 35298), (754, 35337), (756, 35340), (803, 35436), (834, 35532), (835, 35538), (848, 35610), (856, 35640), (861, 35667), (862, 35712), (863, 35730),

Gene: P3MA_22 Start: 17958, Stop: 20483, Start Num: 50
Candidate Starts for P3MA_22:

(Start: 50 @17958 has 1 MA's), (100, 18096), (107, 18129), (152, 18255), (166, 18291), (182, 18339), (189, 18366), (192, 18378), (201, 18417), (206, 18450), (207, 18453), (223, 18510), (224, 18513), (229, 18534), (299, 18771), (322, 18852), (330, 18873), (346, 18930), (363, 19011), (374, 19062), (383, 19086), (393, 19113), (405, 19155), (416, 19188), (428, 19230), (439, 19260), (489, 19434), (551, 19617), (604, 19773), (631, 19857), (653, 19932), (672, 19998), (684, 20034), (731, 20184), (732, 20190), (806, 20385), (828, 20442), (831, 20451),

Gene: PG1_31 Start: 28771, Stop: 31026, Start Num: 37
Candidate Starts for PG1_31:
(Start: 37 @28771 has 342 MA's), (74, 28867), (98, 28945), (104, 28972), (143, 29071), (192, 29230), (237, 29410), (244, 29434), (269, 29524), (271, 29530), (283, 29566), (295, 29605), (298, 29614), (306, 29647), (316, 29686), (334, 29731), (351, 29782), (361, 29833), (363, 29842), (380, 29911), (410, 29986), (426, 30031), (429, 30046), (469, 30181), (492, 30235), (499, 30256), (509, 30289), (530, 30334), (551, 30388), (583, 30472), (590, 30493), (614, 30535), (625, 30574), (642, 30634), (728, 30874), (736, 30907), (737, 30910), (751, 30943), (756, 30949), (789, 31012),

Gene: Pacifista_30 Start: 28462, Stop: 30717, Start Num: 37
Candidate Starts for Pacifista_30:
(Start: 37 @28462 has 342 MA's), (74, 28558), (98, 28636), (104, 28663), (143, 28762), (192, 28921), (237, 29101), (244, 29125), (269, 29215), (271, 29221), (283, 29257), (295, 29296), (298, 29305), (306, 29338), (316, 29377), (334, 29422), (351, 29473), (361, 29524), (363, 29533), (380, 29602), (410, 29677), (426, 29722), (429, 29737), (469, 29872), (492, 29926), (499, 29947), (509, 29980), (530, 30025), (551, 30079), (563, 30106), (583, 30163), (590, 30184), (614, 30226), (625, 30265), (642, 30325), (728, 30565), (736, 30598), (737, 30601), (751, 30634), (756, 30640), (789, 30703),

Gene: PallasAthena_30 Start: 28470, Stop: 30725, Start Num: 37
Candidate Starts for PallasAthena_30:
(Start: 37 @28470 has 342 MA's), (74, 28566), (98, 28644), (104, 28671), (143, 28770), (192, 28929), (237, 29109), (244, 29133), (269, 29223), (271, 29229), (283, 29265), (295, 29304), (298, 29313), (306, 29346), (316, 29385), (334, 29430), (351, 29481), (361, 29532), (363, 29541), (380, 29610), (410, 29685), (426, 29730), (429, 29745), (469, 29880), (492, 29934), (499, 29955), (509, 29988), (530, 30033), (551, 30087), (563, 30114), (583, 30171), (590, 30192), (614, 30234), (625, 30273), (642, 30333), (728, 30573), (736, 30606), (737, 30609), (751, 30642), (756, 30648), (789, 30711),

Gene: Panchino_20 Start: 17533, Stop: 20178, Start Num: 9
Candidate Starts for Panchino_20:
(7, 17521), (Start: 9 @17533 has 17 MA's), (13, 17545), (52, 17656), (Start: 61 @17680 has 1 MA's), (62, 17683), (65, 17692), (82, 17740), (157, 17965), (161, 17977), (170, 17998), (186, 18043), (200, 18097), (215, 18175), (224, 18205), (233, 18241), (238, 18262), (242, 18277), (254, 18319), (265, 18352), (288, 18427), (294, 18451), (296, 18457), (300, 18469), (307, 18511), (309, 18517), (342, 18616), (368, 18736), (372, 18754), (382, 18787), (392, 18814), (406, 18865), (468, 19075), (494, 19141), (507, 19177), (548, 19288), (568, 19351), (627, 19513), (633, 19528), (645, 19579), (685, 19696), (700, 19741), (718, 19783), (728, 19819), (743, 19873), (768, 19921), (833, 20065), (845, 20122), (855, 20161), (859, 20170),

Gene: Parada_25 Start: 20607, Stop: 23117, Start Num: 19
Candidate Starts for Parada_25:
(Start: 19 @20607 has 14 MA's), (74, 20739), (77, 20754), (92, 20799), (102, 20817), (165, 20982), (184, 21036), (186, 21045), (203, 21123), (204, 21129), (247, 21294), (254, 21309), (265, 21345), (288, 21420), (291, 21432), (294, 21441), (296, 21447), (300, 21459), (303, 21471), (306, 21486), (308, 21504), (309, 21507), (323, 21543), (338, 21597), (369, 21720), (384, 21774), (391, 21795), (396, 21804), (423, 21906), (441, 21966), (453, 22014), (454, 22026), (466, 22071), (500, 22158), (513, 22197), (541, 22266), (545, 22278), (549, 22290), (649, 22578), (659, 22608), (683, 22689),

(690, 22710), (697, 22737), (705, 22761), (752, 22926), (771, 22971), (811, 23070), (826, 23109),

Gene: ParvusTarda_30 Start: 25915, Stop: 27891, Start Num: 5
Candidate Starts for ParvusTarda_30:
(Start: 5 @25915 has 38 MA's), (29, 26029), (34, 26038), (39, 26047), (41, 26050), (45, 26059), (73, 26128), (96, 26194), (113, 26233), (119, 26254), (136, 26308), (192, 26485), (209, 26560), (244, 26692), (252, 26722), (254, 26725), (283, 26812), (298, 26860), (300, 26866), (306, 26893), (331, 26971), (344, 27022), (380, 27181), (394, 27214), (433, 27349), (536, 27655), (551, 27700), (553, 27706), (578, 27766),

Gene: Patio_46 Start: 33460, Stop: 36018, Start Num: 78
Candidate Starts for Patio_46:
(12, 33262), (60, 33409), (Start: 78 @33460 has 15 MA's), (120, 33589), (164, 33709), (223, 33928), (224, 33931), (243, 34003), (258, 34060), (264, 34081), (296, 34168), (306, 34207), (420, 34579), (443, 34663), (574, 35041), (614, 35146), (620, 35164), (628, 35197), (634, 35218), (650, 35272), (659, 35296), (686, 35377), (693, 35404), (696, 35410), (724, 35500), (754, 35596), (756, 35599), (787, 35662), (803, 35695), (806, 35713), (808, 35716), (822, 35752), (830, 35776), (835, 35797), (853, 35887), (856, 35899),

Gene: Patos_31 Start: 26355, Stop: 28355, Start Num: 5
Candidate Starts for Patos_31:
(Start: 5 @26355 has 38 MA's), (29, 26469), (34, 26478), (39, 26487), (41, 26490), (45, 26499), (73, 26568), (192, 26931), (209, 27006), (244, 27138), (251, 27165), (252, 27168), (254, 27171), (283, 27258), (298, 27306), (300, 27312), (306, 27339), (331, 27417), (344, 27468), (380, 27627), (394, 27660), (468, 27933), (473, 27951), (551, 28167), (553, 28173), (562, 28191), (578, 28233), (601, 28290), (614, 28320), (617, 28329),

Gene: Patt_28 Start: 22014, Stop: 24320, Start Num: 66
Candidate Starts for Patt_28:
(Start: 66 @22014 has 18 MA's), (77, 22044), (83, 22062), (106, 22125), (185, 22266), (201, 22332), (214, 22395), (228, 22446), (230, 22455), (238, 22488), (252, 22536), (271, 22593), (288, 22653), (291, 22665), (296, 22680), (298, 22686), (306, 22719), (319, 22767), (344, 22821), (364, 22893), (421, 23073), (449, 23154), (502, 23307), (521, 23349), (543, 23406), (547, 23418), (569, 23505), (574, 23523), (596, 23589), (607, 23604), (685, 23853), (689, 23868), (692, 23874), (698, 23898), (712, 23937), (718, 23949), (744, 24045), (763, 24081), (772, 24096), (774, 24099), (783, 24120), (790, 24135), (825, 24204), (834, 24234), (859, 24312),

Gene: Peanam_27 Start: 20230, Stop: 22731, Start Num: 24
Candidate Starts for Peanam_27:
(Start: 24 @20230 has 60 MA's), (44, 20278), (63, 20329), (89, 20401), (141, 20452), (144, 20470), (155, 20503), (164, 20524), (169, 20536), (188, 20590), (204, 20668), (214, 20707), (229, 20764), (238, 20800), (254, 20851), (267, 20881), (272, 20896), (277, 20920), (288, 20953), (294, 20974), (296, 20980), (306, 21019), (352, 21172), (357, 21205), (360, 21217), (374, 21280), (406, 21364), (459, 21547), (476, 21601), (496, 21643), (565, 21835), (568, 21841), (574, 21865), (594, 21928), (614, 21967), (633, 22030), (645, 22087), (657, 22120), (663, 22138), (675, 22177), (687, 22216), (689, 22222), (709, 22279), (744, 22393), (775, 22447), (782, 22462), (796, 22492), (803, 22504), (823, 22561), (829, 22579), (837, 22609), (838, 22627), (858, 22708),

Gene: PenguinLover67_32 Start: 30945, Stop: 33434, Start Num: 33
Candidate Starts for PenguinLover67_32:
(3, 30792), (Start: 33 @30945 has 2 MA's), (74, 31044), (75, 31050), (79, 31062), (97, 31119), (140, 31266), (153, 31317), (155, 31326), (173, 31380), (213, 31533), (235, 31614), (236, 31617), (252, 31677), (259, 31704), (305, 31860), (306, 31863), (309, 31884), (351, 31998), (360, 32046), (379,

32124), (389, 32148), (399, 32169), (422, 32253), (424, 32256), (427, 32274), (477, 32439), (493, 32469), (503, 32499), (518, 32538), (525, 32550), (534, 32580), (548, 32616), (551, 32628), (595, 32751), (597, 32754), (603, 32757), (605, 32763), (614, 32787), (632, 32847), (636, 32865), (656, 32931), (658, 32934), (666, 32955), (682, 33006), (689, 33027), (723, 33132), (778, 33258), (798, 33300), (812, 33336), (818, 33354), (827, 33381),

Gene: Phaedrus_29 Start: 28532, Stop: 30757, Start Num: 28
Candidate Starts for Phaedrus_29:
(Start: 28 @28532 has 52 MA's), (Start: 40 @28547 has 1 MA's), (59, 28592), (79, 28649), (105, 28727), (135, 28796), (143, 28808), (158, 28850), (169, 28886), (179, 28913), (183, 28925), (190, 28952), (211, 29042), (229, 29114), (252, 29198), (286, 29306), (291, 29327), (316, 29420), (323, 29435), (360, 29564), (380, 29645), (410, 29720), (425, 29762), (426, 29768), (436, 29804), (469, 29918), (473, 29930), (492, 29972), (499, 29993), (521, 30047), (530, 30071), (546, 30107), (583, 30203), (586, 30212), (614, 30266), (645, 30374), (656, 30401), (672, 30443), (701, 30515), (726, 30596), (728, 30605), (737, 30641),

Gene: Phalm_21 Start: 18926, Stop: 21559, Start Num: 9
Candidate Starts for Phalm_21:
(Start: 9 @18926 has 17 MA's), (11, 18935), (62, 19079), (157, 19352), (161, 19364), (170, 19385), (180, 19409), (200, 19484), (215, 19556), (224, 19586), (233, 19622), (247, 19685), (254, 19700), (262, 19727), (265, 19733), (288, 19808), (294, 19832), (296, 19838), (300, 19850), (307, 19892), (309, 19898), (337, 19985), (345, 20006), (352, 20030), (365, 20096), (368, 20117), (372, 20135), (382, 20168), (390, 20192), (392, 20195), (406, 20246), (444, 20351), (453, 20393), (507, 20558), (543, 20654), (568, 20732), (573, 20744), (610, 20834), (627, 20894), (630, 20903), (644, 20951), (645, 20960), (685, 21077), (700, 21122), (718, 21164), (735, 21230), (743, 21254), (768, 21302), (772, 21308), (776, 21314), (822, 21413), (825, 21422), (834, 21452), (855, 21542), (859, 21551),

Gene: Phamished_31 Start: 28766, Stop: 31021, Start Num: 37
Candidate Starts for Phamished_31:
(Start: 37 @28766 has 342 MA's), (74, 28862), (98, 28940), (104, 28967), (143, 29066), (192, 29225), (237, 29405), (244, 29429), (269, 29519), (271, 29525), (283, 29561), (295, 29600), (298, 29609), (306, 29642), (316, 29681), (334, 29726), (351, 29777), (361, 29828), (363, 29837), (380, 29906), (410, 29981), (426, 30026), (429, 30041), (469, 30176), (492, 30230), (499, 30251), (509, 30284), (530, 30329), (551, 30383), (563, 30410), (583, 30467), (590, 30488), (614, 30530), (625, 30569), (642, 30629), (728, 30869), (736, 30902), (737, 30905), (751, 30938), (756, 30944), (789, 31007),

Gene: Pharb_26 Start: 21154, Stop: 23529, Start Num: 24
Candidate Starts for Pharb_26:
(Start: 24 @21154 has 60 MA's), (Start: 36 @21181 has 1 MA's), (48, 21214), (71, 21274), (76, 21289), (141, 21379), (144, 21397), (188, 21523), (189, 21529), (193, 21544), (201, 21577), (215, 21634), (216, 21637), (221, 21655), (233, 21703), (252, 21772), (269, 21823), (294, 21910), (306, 21955), (323, 22012), (344, 22057), (357, 22102), (364, 22129), (373, 22171), (374, 22177), (377, 22186), (431, 22324), (463, 22414), (544, 22609), (625, 22840), (627, 22846), (630, 22855), (633, 22861), (644, 22903), (654, 22933), (670, 22990), (674, 22996), (712, 23101), (727, 23146), (742, 23200), (744, 23209), (762, 23239), (829, 23389), (839, 23431), (846, 23464), (859, 23509),

Gene: Phareon_31 Start: 28470, Stop: 30725, Start Num: 37
Candidate Starts for Phareon_31:
(Start: 37 @28470 has 342 MA's), (74, 28566), (98, 28644), (104, 28671), (143, 28770), (192, 28929), (237, 29109), (244, 29133), (269, 29223), (271, 29229), (283, 29265), (295, 29304), (298, 29313), (306, 29346), (316, 29385), (334, 29430), (351, 29481), (361, 29532), (363, 29541), (380, 29610), (410, 29685), (426, 29730), (429, 29745), (469, 29880), (492, 29934), (499, 29955), (509, 29988), (530, 30033), (551, 30087), (563, 30114), (583, 30171), (590, 30192), (614, 30234), (625, 30273),

(642, 30333), (728, 30573), (736, 30606), (737, 30609), (751, 30642), (756, 30648), (789, 30711),

Gene: PhatCats2014_31 Start: 28775, Stop: 31030, Start Num: 37
Candidate Starts for PhatCats2014_31:
(Start: 37 @28775 has 342 MA's), (74, 28871), (98, 28949), (104, 28976), (143, 29075), (192, 29234), (237, 29414), (244, 29438), (269, 29528), (271, 29534), (283, 29570), (295, 29609), (298, 29618), (306, 29651), (316, 29690), (334, 29735), (351, 29786), (361, 29837), (363, 29846), (380, 29915), (410, 29990), (426, 30035), (429, 30050), (469, 30185), (492, 30239), (499, 30260), (509, 30293), (530, 30338), (551, 30392), (583, 30476), (590, 30497), (614, 30539), (625, 30578), (642, 30638), (728, 30878), (736, 30911), (737, 30914), (751, 30947), (756, 30953), (789, 31016),

Gene: PhatLouie_31 Start: 28764, Stop: 31019, Start Num: 37
Candidate Starts for PhatLouie_31:
(Start: 37 @28764 has 342 MA's), (74, 28860), (98, 28938), (104, 28965), (143, 29064), (192, 29223), (237, 29403), (244, 29427), (269, 29517), (271, 29523), (283, 29559), (295, 29598), (298, 29607), (306, 29640), (316, 29679), (334, 29724), (351, 29775), (361, 29826), (363, 29835), (380, 29904), (410, 29979), (426, 30024), (429, 30039), (469, 30174), (492, 30228), (499, 30249), (509, 30282), (530, 30327), (551, 30381), (563, 30408), (583, 30465), (590, 30486), (614, 30528), (625, 30567), (642, 30627), (728, 30867), (736, 30900), (737, 30903), (751, 30936), (756, 30942), (789, 31005),

Gene: Phayeta_31 Start: 28480, Stop: 30705, Start Num: 28
Candidate Starts for Phayeta_31:
(Start: 28 @28480 has 52 MA's), (Start: 40 @28495 has 1 MA's), (59, 28540), (79, 28597), (105, 28675), (135, 28744), (143, 28756), (158, 28798), (169, 28834), (179, 28861), (183, 28873), (190, 28900), (211, 28990), (229, 29062), (252, 29146), (286, 29254), (291, 29275), (316, 29368), (323, 29383), (360, 29512), (380, 29593), (410, 29668), (425, 29710), (426, 29716), (436, 29752), (453, 29815), (469, 29866), (473, 29878), (492, 29920), (499, 29941), (521, 29995), (530, 30019), (546, 30055), (583, 30151), (586, 30160), (614, 30214), (645, 30322), (656, 30349), (672, 30391), (701, 30463), (728, 30553), (737, 30589),

Gene: Phelemich_30 Start: 29231, Stop: 31498, Start Num: 37
Candidate Starts for Phelemich_30:
(Start: 37 @29231 has 342 MA's), (74, 29327), (90, 29384), (97, 29402), (113, 29447), (218, 29798), (243, 29894), (245, 29900), (252, 29930), (258, 29954), (266, 29981), (295, 30071), (300, 30086), (354, 30266), (361, 30302), (368, 30338), (380, 30380), (410, 30455), (417, 30476), (426, 30506), (453, 30605), (461, 30629), (469, 30656), (492, 30710), (499, 30731), (509, 30764), (552, 30866), (583, 30944), (586, 30953), (590, 30965), (625, 31046), (626, 31049), (641, 31103), (645, 31115), (658, 31145), (664, 31163), (689, 31229), (707, 31277), (728, 31346), (789, 31484), (790, 31487),

Gene: PhelpsODU_26 Start: 20093, Stop: 22432, Start Num: 24
Candidate Starts for PhelpsODU_26:
(Start: 24 @20093 has 60 MA's), (47, 20150), (89, 20264), (93, 20282), (144, 20333), (149, 20354), (181, 20432), (204, 20531), (208, 20543), (233, 20642), (235, 20651), (262, 20744), (288, 20825), (296, 20855), (300, 20867), (302, 20876), (306, 20894), (307, 20909), (317, 20933), (344, 20993), (357, 21038), (364, 21065), (377, 21122), (382, 21131), (406, 21200), (408, 21203), (416, 21221), (428, 21263), (436, 21284), (448, 21314), (476, 21401), (502, 21464), (514, 21497), (548, 21569), (562, 21617), (568, 21629), (591, 21698), (610, 21722), (630, 21791), (692, 21980), (721, 22055), (728, 22079), (770, 22184), (774, 22193), (782, 22211), (822, 22298), (833, 22322), (843, 22364), (860, 22424),

Gene: PhenghisKhan_30 Start: 28370, Stop: 30625, Start Num: 37
Candidate Starts for PhenghisKhan_30:

(Start: 37 @28370 has 342 MA's), (74, 28466), (98, 28544), (104, 28571), (143, 28670), (192, 28829), (237, 29009), (244, 29033), (269, 29123), (271, 29129), (283, 29165), (295, 29204), (298, 29213), (306, 29246), (316, 29285), (334, 29330), (351, 29381), (361, 29432), (363, 29441), (380, 29510), (410, 29585), (426, 29630), (429, 29645), (469, 29780), (492, 29834), (499, 29855), (509, 29888), (530, 29933), (551, 29987), (563, 30014), (583, 30071), (590, 30092), (614, 30134), (625, 30173), (642, 30233), (728, 30473), (736, 30506), (737, 30509), (751, 30542), (756, 30548), (789, 30611),

Gene: Pherdinand_31 Start: 28766, Stop: 31021, Start Num: 37
Candidate Starts for Pherdinand_31:
(Start: 37 @28766 has 342 MA's), (74, 28862), (98, 28940), (104, 28967), (143, 29066), (192, 29225), (237, 29405), (244, 29429), (269, 29519), (271, 29525), (283, 29561), (295, 29600), (298, 29609), (306, 29642), (316, 29681), (334, 29726), (351, 29777), (361, 29828), (363, 29837), (380, 29906), (410, 29981), (426, 30026), (429, 30041), (469, 30176), (492, 30230), (499, 30251), (509, 30284), (530, 30329), (551, 30383), (583, 30467), (590, 30488), (614, 30530), (625, 30569), (642, 30629), (728, 30869), (736, 30902), (737, 30905), (751, 30938), (756, 30944), (789, 31007),

Gene: Phergie_30 Start: 28361, Stop: 30616, Start Num: 37
Candidate Starts for Phergie_30:
(Start: 37 @28361 has 342 MA's), (74, 28457), (98, 28535), (104, 28562), (143, 28661), (192, 28820), (237, 29000), (244, 29024), (269, 29114), (271, 29120), (283, 29156), (295, 29195), (298, 29204), (306, 29237), (316, 29276), (334, 29321), (351, 29372), (361, 29423), (363, 29432), (380, 29501), (410, 29576), (426, 29621), (429, 29636), (469, 29771), (492, 29825), (499, 29846), (509, 29879), (530, 29924), (551, 29978), (563, 30005), (583, 30062), (590, 30083), (614, 30125), (625, 30164), (642, 30224), (728, 30464), (736, 30497), (737, 30500), (751, 30533), (756, 30539), (789, 30602),

Gene: Philly_30 Start: 28467, Stop: 30692, Start Num: 28
Candidate Starts for Philly_30:
(Start: 28 @28467 has 52 MA's), (Start: 40 @28482 has 1 MA's), (59, 28527), (79, 28584), (105, 28662), (135, 28731), (143, 28743), (158, 28785), (169, 28821), (179, 28848), (183, 28860), (190, 28887), (211, 28977), (229, 29049), (252, 29133), (286, 29241), (291, 29262), (316, 29355), (323, 29370), (360, 29499), (380, 29580), (410, 29655), (426, 29703), (453, 29802), (469, 29853), (473, 29865), (492, 29907), (499, 29928), (521, 29982), (530, 30006), (546, 30042), (583, 30138), (586, 30147), (614, 30201), (645, 30309), (656, 30336), (672, 30378), (701, 30450), (728, 30540), (737, 30576),

Gene: Phineas_21 Start: 19035, Stop: 21668, Start Num: 9
Candidate Starts for Phineas_21:
(Start: 9 @19035 has 17 MA's), (11, 19044), (62, 19188), (157, 19461), (161, 19473), (170, 19494), (180, 19518), (200, 19593), (215, 19665), (224, 19695), (233, 19731), (247, 19794), (254, 19809), (265, 19842), (288, 19917), (294, 19941), (296, 19947), (300, 19959), (307, 20001), (309, 20007), (337, 20094), (345, 20115), (352, 20139), (365, 20205), (368, 20226), (372, 20244), (382, 20277), (390, 20301), (392, 20304), (406, 20355), (444, 20460), (453, 20502), (507, 20667), (543, 20763), (568, 20841), (573, 20853), (610, 20943), (627, 21003), (630, 21012), (644, 21060), (645, 21069), (685, 21186), (700, 21231), (718, 21273), (735, 21339), (743, 21363), (768, 21411), (772, 21417), (776, 21423), (822, 21522), (825, 21531), (834, 21561), (855, 21651), (859, 21660),

Gene: Phipps_31 Start: 28736, Stop: 30991, Start Num: 37
Candidate Starts for Phipps_31:
(Start: 37 @28736 has 342 MA's), (74, 28832), (98, 28910), (104, 28937), (143, 29036), (192, 29195), (237, 29375), (244, 29399), (269, 29489), (271, 29495), (283, 29531), (295, 29570), (298, 29579), (306, 29612), (316, 29651), (334, 29696), (351, 29747), (361, 29798), (363, 29807), (380, 29876), (410, 29951), (426, 29996), (429, 30011), (469, 30146), (492, 30200), (499, 30221), (509, 30254), (530, 30299), (551, 30353), (563, 30380), (583, 30437), (590, 30458), (614, 30500), (625, 30539),

(642, 30599), (728, 30839), (736, 30872), (737, 30875), (751, 30908), (756, 30914), (789, 30977),

Gene: Phleuron_30 Start: 28367, Stop: 30622, Start Num: 37
Candidate Starts for Phleuron_30:
(Start: 37 @28367 has 342 MA's), (74, 28463), (98, 28541), (104, 28568), (143, 28667), (192, 28826), (237, 29006), (244, 29030), (271, 29126), (283, 29162), (295, 29201), (298, 29210), (306, 29243), (316, 29282), (334, 29327), (351, 29378), (361, 29429), (363, 29438), (380, 29507), (410, 29582), (426, 29627), (429, 29642), (469, 29777), (492, 29831), (499, 29852), (509, 29885), (530, 29930), (551, 29984), (563, 30011), (583, 30068), (590, 30089), (614, 30131), (625, 30170), (642, 30230), (728, 30470), (736, 30503), (737, 30506), (751, 30539), (756, 30545), (789, 30608),

Gene: Phloss_20 Start: 17556, Stop: 20201, Start Num: 9
Candidate Starts for Phloss_20:
(7, 17544), (Start: 9 @17556 has 17 MA's), (13, 17568), (15, 17580), (Start: 31 @17634 has 6 MA's), (Start: 61 @17703 has 1 MA's), (62, 17706), (65, 17715), (72, 17730), (129, 17907), (157, 17988), (160, 17997), (183, 18054), (187, 18069), (216, 18201), (229, 18249), (233, 18264), (238, 18285), (247, 18327), (254, 18342), (255, 18351), (265, 18378), (267, 18384), (288, 18453), (294, 18474), (296, 18480), (299, 18489), (305, 18516), (327, 18582), (331, 18594), (337, 18627), (342, 18639), (368, 18759), (372, 18777), (382, 18810), (406, 18888), (444, 18993), (453, 19035), (528, 19254), (542, 19293), (543, 19296), (548, 19311), (568, 19374), (584, 19422), (627, 19536), (636, 19566), (644, 19593), (645, 19602), (685, 19719), (700, 19764), (718, 19806), (735, 19872), (743, 19896), (768, 19944), (772, 19950), (776, 19956), (782, 19971), (822, 20055), (834, 20094), (855, 20184), (859, 20193),

Gene: Phlyer_31 Start: 29348, Stop: 31576, Start Num: 28
Candidate Starts for Phlyer_31:
(Start: 28 @29348 has 52 MA's), (Start: 40 @29363 has 1 MA's), (59, 29408), (79, 29465), (105, 29543), (135, 29612), (143, 29624), (158, 29666), (169, 29702), (179, 29729), (183, 29741), (190, 29768), (211, 29858), (229, 29930), (252, 30014), (286, 30122), (291, 30143), (316, 30236), (323, 30251), (360, 30380), (380, 30461), (410, 30536), (425, 30578), (426, 30584), (436, 30620), (469, 30734), (473, 30746), (492, 30788), (499, 30809), (521, 30863), (530, 30887), (546, 30923), (583, 31022), (586, 31031), (614, 31085), (645, 31193), (656, 31220), (672, 31262), (701, 31334), (728, 31424), (737, 31460),

Gene: Phrank_26 Start: 20046, Stop: 22382, Start Num: 24
Candidate Starts for Phrank_26:
(Start: 24 @20046 has 60 MA's), (44, 20094), (47, 20103), (89, 20217), (93, 20235), (144, 20286), (181, 20382), (185, 20391), (204, 20481), (208, 20493), (233, 20592), (235, 20601), (262, 20694), (288, 20775), (296, 20805), (300, 20817), (306, 20844), (307, 20859), (317, 20883), (344, 20943), (357, 20988), (364, 21015), (372, 21054), (377, 21072), (382, 21081), (406, 21150), (408, 21153), (416, 21171), (428, 21213), (436, 21234), (448, 21264), (476, 21351), (502, 21414), (514, 21447), (522, 21456), (548, 21519), (562, 21567), (568, 21579), (591, 21648), (610, 21672), (620, 21702), (630, 21741), (692, 21930), (721, 22005), (735, 22059), (774, 22143), (782, 22161), (822, 22248), (833, 22272), (843, 22314), (860, 22374),

Gene: PhrankReynolds_30 Start: 28367, Stop: 30622, Start Num: 37
Candidate Starts for PhrankReynolds_30:
(Start: 37 @28367 has 342 MA's), (74, 28463), (98, 28541), (104, 28568), (143, 28667), (192, 28826), (237, 29006), (244, 29030), (269, 29120), (271, 29126), (283, 29162), (295, 29201), (298, 29210), (306, 29243), (316, 29282), (334, 29327), (351, 29378), (361, 29429), (363, 29438), (380, 29507), (410, 29582), (426, 29627), (429, 29642), (469, 29777), (492, 29831), (499, 29852), (509, 29885), (530, 29930), (551, 29984), (563, 30011), (583, 30068), (590, 30089), (614, 30131), (625, 30170), (642, 30230), (728, 30470), (736, 30503), (737, 30506), (751, 30539), (756, 30545), (789, 30608),

Gene: PhrodoBaggins_30 Start: 28754, Stop: 31009, Start Num: 37
Candidate Starts for PhrodoBaggins_30:
(Start: 37 @28754 has 342 MA's), (74, 28850), (98, 28928), (104, 28955), (143, 29054), (192, 29213), (237, 29393), (244, 29417), (269, 29507), (271, 29513), (283, 29549), (295, 29588), (298, 29597), (306, 29630), (316, 29669), (334, 29714), (351, 29765), (361, 29816), (363, 29825), (380, 29894), (410, 29969), (426, 30014), (429, 30029), (469, 30164), (492, 30218), (499, 30239), (509, 30272), (530, 30317), (551, 30371), (563, 30398), (583, 30455), (590, 30476), (614, 30518), (625, 30557), (642, 30617), (728, 30857), (736, 30890), (737, 30893), (751, 30926), (756, 30932), (789, 30995),

Gene: Phunky_31 Start: 28767, Stop: 31022, Start Num: 37
Candidate Starts for Phunky_31:
(Start: 37 @28767 has 342 MA's), (74, 28863), (98, 28941), (104, 28968), (143, 29067), (192, 29226), (237, 29406), (244, 29430), (269, 29520), (271, 29526), (283, 29562), (295, 29601), (298, 29610), (306, 29643), (316, 29682), (334, 29727), (351, 29778), (361, 29829), (363, 29838), (380, 29907), (410, 29982), (426, 30027), (429, 30042), (469, 30177), (492, 30231), (499, 30252), (509, 30285), (530, 30330), (551, 30384), (563, 30411), (583, 30468), (590, 30489), (614, 30531), (625, 30570), (642, 30630), (728, 30870), (736, 30903), (737, 30906), (751, 30939), (756, 30945), (789, 31008),

Gene: Piglet_0030 Start: 28766, Stop: 31021, Start Num: 37
Candidate Starts for Piglet_0030:
(Start: 37 @28766 has 342 MA's), (74, 28862), (98, 28940), (104, 28967), (143, 29066), (192, 29225), (237, 29405), (244, 29429), (269, 29519), (271, 29525), (283, 29561), (295, 29600), (298, 29609), (306, 29642), (316, 29681), (334, 29726), (351, 29777), (361, 29828), (363, 29837), (380, 29906), (410, 29981), (426, 30026), (429, 30041), (469, 30176), (492, 30230), (499, 30251), (509, 30284), (530, 30329), (551, 30383), (563, 30410), (583, 30467), (590, 30488), (614, 30530), (625, 30569), (642, 30629), (728, 30869), (736, 30902), (737, 30905), (751, 30938), (756, 30944), (789, 31007),

Gene: PinheadLarry_31 Start: 28480, Stop: 30735, Start Num: 37
Candidate Starts for PinheadLarry_31:
(Start: 37 @28480 has 342 MA's), (74, 28576), (98, 28654), (104, 28681), (143, 28780), (192, 28939), (237, 29119), (244, 29143), (269, 29233), (271, 29239), (283, 29275), (295, 29314), (298, 29323), (306, 29356), (316, 29395), (334, 29440), (351, 29491), (361, 29542), (363, 29551), (380, 29620), (410, 29695), (426, 29740), (429, 29755), (469, 29890), (492, 29944), (499, 29965), (509, 29998), (530, 30043), (551, 30097), (563, 30124), (583, 30181), (590, 30202), (614, 30244), (625, 30283), (642, 30343), (728, 30583), (737, 30619), (751, 30652), (789, 30721),

Gene: Pinkman_30 Start: 28323, Stop: 30578, Start Num: 37
Candidate Starts for Pinkman_30:
(Start: 37 @28323 has 342 MA's), (74, 28419), (98, 28497), (104, 28524), (143, 28623), (192, 28782), (237, 28962), (244, 28986), (271, 29082), (283, 29118), (295, 29157), (298, 29166), (306, 29199), (316, 29238), (334, 29283), (351, 29334), (361, 29385), (363, 29394), (380, 29463), (410, 29538), (426, 29583), (429, 29598), (469, 29733), (492, 29787), (499, 29808), (509, 29841), (530, 29886), (551, 29940), (563, 29967), (583, 30024), (590, 30045), (614, 30087), (625, 30126), (642, 30186), (728, 30426), (737, 30462), (751, 30495), (789, 30564),

Gene: Pipefish_32 Start: 30005, Stop: 32233, Start Num: 28
Candidate Starts for Pipefish_32:
(Start: 28 @30005 has 52 MA's), (59, 30068), (79, 30125), (105, 30203), (135, 30272), (143, 30284), (158, 30326), (169, 30362), (183, 30401), (190, 30428), (211, 30518), (217, 30542), (229, 30590), (252, 30674), (286, 30782), (291, 30803), (316, 30896), (323, 30911), (360, 31040), (380, 31121), (410, 31196), (425, 31238), (426, 31244), (453, 31343), (469, 31394), (473, 31406), (492, 31448), (499, 31469), (521, 31523), (530, 31547), (546, 31583), (583, 31679), (586, 31688), (614, 31742),

(645, 31850), (656, 31877), (672, 31919), (701, 31991), (728, 32081), (737, 32117),

Gene: Pipsqueak_31 Start: 28765, Stop: 31020, Start Num: 37
Candidate Starts for Pipsqueak_31:
(Start: 37 @28765 has 342 MA's), (74, 28861), (98, 28939), (104, 28966), (143, 29065), (192, 29224), (237, 29404), (244, 29428), (269, 29518), (271, 29524), (283, 29560), (295, 29599), (298, 29608), (306, 29641), (316, 29680), (334, 29725), (351, 29776), (361, 29827), (363, 29836), (380, 29905), (410, 29980), (426, 30025), (429, 30040), (469, 30175), (492, 30229), (499, 30250), (509, 30283), (530, 30328), (551, 30382), (563, 30409), (583, 30466), (590, 30487), (614, 30529), (625, 30568), (642, 30628), (728, 30868), (737, 30904), (751, 30937), (789, 31006),

Gene: Pixie_26 Start: 21086, Stop: 23437, Start Num: 24
Candidate Starts for Pixie_26:
(Start: 24 @21086 has 60 MA's), (Start: 36 @21113 has 1 MA's), (48, 21146), (86, 21251), (172, 21410), (188, 21455), (196, 21491), (201, 21509), (221, 21587), (233, 21635), (273, 21767), (288, 21821), (292, 21836), (323, 21944), (364, 22061), (373, 22103), (374, 22109), (377, 22118), (382, 22127), (408, 22208), (416, 22226), (428, 22268), (436, 22289), (445, 22310), (448, 22319), (476, 22406), (512, 22499), (514, 22502), (548, 22574), (594, 22709), (596, 22712), (620, 22757), (630, 22796), (635, 22814), (668, 22913), (674, 22931), (692, 22985), (706, 23015), (711, 23033), (721, 23060), (722, 23066), (735, 23114), (770, 23189), (774, 23198), (783, 23219), (788, 23228), (833, 23327), (843, 23369),

Gene: Placalicious_30 Start: 28458, Stop: 30713, Start Num: 37
Candidate Starts for Placalicious_30:
(Start: 37 @28458 has 342 MA's), (74, 28554), (98, 28632), (104, 28659), (143, 28758), (192, 28917), (237, 29097), (244, 29121), (269, 29211), (271, 29217), (283, 29253), (295, 29292), (298, 29301), (306, 29334), (316, 29373), (334, 29418), (351, 29469), (361, 29520), (363, 29529), (380, 29598), (410, 29673), (426, 29718), (429, 29733), (469, 29868), (492, 29922), (499, 29943), (509, 29976), (530, 30021), (551, 30075), (563, 30102), (583, 30159), (590, 30180), (614, 30222), (625, 30261), (642, 30321), (728, 30561), (736, 30594), (737, 30597), (751, 30630), (756, 30636), (789, 30699),

Gene: Plata_30 Start: 28479, Stop: 30734, Start Num: 37
Candidate Starts for Plata_30:
(Start: 37 @28479 has 342 MA's), (74, 28575), (98, 28653), (104, 28680), (143, 28779), (192, 28938), (231, 29094), (237, 29118), (244, 29142), (271, 29238), (283, 29274), (295, 29313), (298, 29322), (306, 29355), (316, 29394), (334, 29439), (351, 29490), (361, 29541), (363, 29550), (380, 29619), (410, 29694), (426, 29739), (429, 29754), (469, 29889), (492, 29943), (499, 29964), (509, 29997), (530, 30042), (551, 30096), (563, 30123), (583, 30180), (590, 30201), (614, 30243), (625, 30282), (642, 30342), (728, 30582), (737, 30618), (751, 30651), (789, 30720),

Gene: Plmatters_31 Start: 28763, Stop: 31018, Start Num: 37
Candidate Starts for Plmatters_31:
(Start: 37 @28763 has 342 MA's), (74, 28859), (98, 28937), (104, 28964), (143, 29063), (192, 29222), (237, 29402), (244, 29426), (269, 29516), (271, 29522), (283, 29558), (295, 29597), (298, 29606), (306, 29639), (316, 29678), (334, 29723), (351, 29774), (361, 29825), (363, 29834), (380, 29903), (410, 29978), (426, 30023), (429, 30038), (469, 30173), (492, 30227), (499, 30248), (509, 30281), (530, 30326), (551, 30380), (563, 30407), (583, 30464), (590, 30485), (614, 30527), (625, 30566), (642, 30626), (728, 30866), (736, 30899), (737, 30902), (751, 30935), (756, 30941), (789, 31004),

Gene: Podrick_31 Start: 28755, Stop: 31010, Start Num: 37
Candidate Starts for Podrick_31:
(Start: 37 @28755 has 342 MA's), (74, 28851), (98, 28929), (104, 28956), (143, 29055), (192, 29214), (237, 29394), (244, 29418), (269, 29508), (271, 29514), (283, 29550), (295, 29589), (298, 29598),

(306, 29631), (316, 29670), (334, 29715), (351, 29766), (361, 29817), (363, 29826), (380, 29895), (410, 29970), (426, 30015), (429, 30030), (469, 30165), (492, 30219), (499, 30240), (509, 30273), (530, 30318), (551, 30372), (563, 30399), (583, 30456), (590, 30477), (614, 30519), (625, 30558), (642, 30618), (728, 30858), (736, 30891), (737, 30894), (751, 30927), (756, 30933), (789, 30996),

Gene: Poland_31 Start: 35235, Stop: 37232, Start Num: 6
Candidate Starts for Poland_31:
(Start: 6 @35235 has 35 MA's), (Start: 20 @35310 has 4 MA's), (32, 35349), (45, 35379), (54, 35406), (56, 35409), (179, 35784), (181, 35793), (229, 35985), (249, 36063), (264, 36105), (288, 36174), (306, 36240), (308, 36258), (327, 36306), (380, 36528), (394, 36561), (415, 36627), (425, 36663), (433, 36699), (457, 36789), (464, 36819), (551, 37041), (553, 37047), (578, 37107), (601, 37164),

Gene: Pops_31 Start: 28775, Stop: 31033, Start Num: 37
Candidate Starts for Pops_31:
(Start: 37 @28775 has 342 MA's), (74, 28871), (98, 28949), (104, 28976), (143, 29078), (192, 29237), (237, 29417), (244, 29441), (271, 29537), (283, 29573), (295, 29612), (298, 29621), (306, 29654), (316, 29693), (334, 29738), (351, 29789), (361, 29840), (363, 29849), (380, 29918), (410, 29993), (426, 30038), (429, 30053), (469, 30188), (492, 30242), (499, 30263), (509, 30296), (530, 30341), (551, 30395), (563, 30422), (583, 30479), (590, 30500), (614, 30542), (625, 30581), (642, 30641), (728, 30881), (737, 30917), (751, 30950), (789, 31019),

Gene: Poster_27 Start: 27941, Stop: 30238, Start Num: 37
Candidate Starts for Poster_27:
(Start: 37 @27941 has 342 MA's), (74, 28040), (104, 28145), (118, 28181), (143, 28244), (167, 28325), (189, 28391), (192, 28403), (218, 28508), (228, 28547), (241, 28598), (244, 28607), (265, 28688), (266, 28691), (283, 28754), (296, 28796), (300, 28808), (335, 28931), (346, 28955), (360, 29018), (367, 29048), (368, 29057), (392, 29129), (399, 29150), (410, 29186), (417, 29207), (436, 29273), (440, 29285), (453, 29336), (457, 29339), (460, 29357), (468, 29381), (476, 29408), (492, 29441), (499, 29462), (509, 29495), (530, 29540), (585, 29681), (586, 29684), (590, 29696), (626, 29780), (672, 29915), (682, 29939), (703, 30002), (710, 30032), (713, 30038), (728, 30086), (736, 30119), (737, 30122), (789, 30224), (790, 30227),

Gene: Potter_30 Start: 28479, Stop: 30734, Start Num: 37
Candidate Starts for Potter_30:
(Start: 37 @28479 has 342 MA's), (74, 28575), (98, 28653), (104, 28680), (143, 28779), (192, 28938), (237, 29118), (244, 29142), (269, 29232), (271, 29238), (283, 29274), (295, 29313), (298, 29322), (306, 29355), (316, 29394), (334, 29439), (351, 29490), (361, 29541), (363, 29550), (380, 29619), (410, 29694), (426, 29739), (429, 29754), (469, 29889), (492, 29943), (499, 29964), (509, 29997), (530, 30042), (551, 30096), (563, 30123), (583, 30180), (590, 30201), (614, 30243), (625, 30282), (642, 30342), (728, 30582), (736, 30615), (737, 30618), (751, 30651), (756, 30657), (789, 30720),

Gene: Prickles_31 Start: 28755, Stop: 31010, Start Num: 37
Candidate Starts for Prickles_31:
(Start: 37 @28755 has 342 MA's), (74, 28851), (98, 28929), (104, 28956), (143, 29055), (192, 29214), (237, 29394), (244, 29418), (271, 29514), (283, 29550), (295, 29589), (298, 29598), (306, 29631), (316, 29670), (334, 29715), (351, 29766), (361, 29817), (363, 29826), (380, 29895), (410, 29970), (426, 30015), (429, 30030), (469, 30165), (492, 30219), (499, 30240), (509, 30273), (530, 30318), (551, 30372), (563, 30399), (583, 30456), (590, 30477), (614, 30519), (625, 30558), (642, 30618), (728, 30858), (737, 30894), (751, 30927), (789, 30996),

Gene: Prince_28 Start: 29124, Stop: 31421, Start Num: 37
Candidate Starts for Prince_28:

(Start: 1 @28437 has 1 MA's), (2, 28584), (Start: 37 @29124 has 342 MA's), (74, 29223), (104, 29328), (118, 29364), (143, 29427), (167, 29508), (189, 29574), (192, 29586), (218, 29691), (228, 29730), (241, 29781), (244, 29790), (265, 29871), (266, 29874), (283, 29937), (296, 29979), (300, 29991), (335, 30114), (346, 30138), (360, 30201), (392, 30312), (399, 30333), (410, 30369), (417, 30390), (436, 30456), (440, 30468), (453, 30519), (457, 30522), (460, 30540), (468, 30564), (476, 30591), (492, 30624), (499, 30645), (509, 30678), (530, 30723), (585, 30864), (586, 30867), (588, 30870), (590, 30879), (626, 30963), (664, 31077), (672, 31098), (682, 31122), (703, 31185), (710, 31215), (713, 31221), (728, 31269), (736, 31302), (737, 31305), (789, 31407), (790, 31410),

Gene: ProfessorX_31 Start: 28750, Stop: 31005, Start Num: 37
Candidate Starts for ProfessorX_31:
(Start: 37 @28750 has 342 MA's), (74, 28846), (98, 28924), (104, 28951), (143, 29050), (192, 29209), (237, 29389), (244, 29413), (269, 29503), (271, 29509), (283, 29545), (295, 29584), (298, 29593), (306, 29626), (316, 29665), (334, 29710), (351, 29761), (361, 29812), (363, 29821), (380, 29890), (410, 29965), (426, 30010), (429, 30025), (469, 30160), (492, 30214), (499, 30235), (509, 30268), (530, 30313), (551, 30367), (583, 30451), (590, 30472), (614, 30514), (625, 30553), (642, 30613), (728, 30853), (736, 30886), (737, 30889), (751, 30922), (756, 30928), (789, 30991),

Gene: Puhltonio_31 Start: 28770, Stop: 31025, Start Num: 37
Candidate Starts for Puhltonio_31:
(Start: 37 @28770 has 342 MA's), (74, 28866), (98, 28944), (104, 28971), (143, 29070), (192, 29229), (237, 29409), (244, 29433), (269, 29523), (271, 29529), (283, 29565), (295, 29604), (298, 29613), (306, 29646), (316, 29685), (334, 29730), (351, 29781), (361, 29832), (363, 29841), (380, 29910), (410, 29985), (426, 30030), (429, 30045), (469, 30180), (492, 30234), (499, 30255), (509, 30288), (530, 30333), (551, 30387), (563, 30414), (583, 30471), (590, 30492), (614, 30534), (625, 30573), (642, 30633), (728, 30873), (736, 30906), (737, 30909), (751, 30942), (756, 30948), (789, 31011),

Gene: Pywacket_29 Start: 27263, Stop: 29245, Start Num: 5
Candidate Starts for Pywacket_29:
(Start: 5 @27263 has 38 MA's), (29, 27377), (34, 27386), (39, 27395), (41, 27398), (45, 27407), (73, 27476), (136, 27662), (192, 27839), (209, 27914), (233, 28007), (244, 28046), (252, 28076), (264, 28112), (269, 28127), (283, 28166), (298, 28214), (300, 28220), (306, 28247), (331, 28325), (344, 28376), (380, 28535), (394, 28568), (433, 28703), (536, 29009), (551, 29054), (553, 29060), (578, 29120),

Gene: Qhanda_29 Start: 22292, Stop: 24601, Start Num: 66
Candidate Starts for Qhanda_29:
(Start: 66 @22292 has 18 MA's), (106, 22403), (143, 22427), (185, 22544), (214, 22673), (228, 22724), (230, 22733), (238, 22766), (248, 22805), (252, 22814), (271, 22871), (274, 22880), (288, 22931), (291, 22943), (296, 22958), (298, 22964), (306, 22997), (319, 23045), (344, 23099), (364, 23171), (372, 23210), (375, 23222), (382, 23237), (400, 23282), (421, 23351), (449, 23432), (502, 23585), (543, 23684), (547, 23696), (574, 23801), (596, 23867), (607, 23882), (636, 23978), (685, 24131), (689, 24146), (692, 24152), (698, 24176), (712, 24215), (718, 24227), (744, 24323), (774, 24377), (783, 24398), (825, 24485), (834, 24515), (859, 24593),

Gene: QueenBeane_31 Start: 28761, Stop: 31016, Start Num: 37
Candidate Starts for QueenBeane_31:
(Start: 37 @28761 has 342 MA's), (74, 28857), (98, 28935), (104, 28962), (143, 29061), (192, 29220), (237, 29400), (244, 29424), (269, 29514), (271, 29520), (283, 29556), (295, 29595), (298, 29604), (306, 29637), (316, 29676), (334, 29721), (351, 29772), (361, 29823), (363, 29832), (380, 29901), (410, 29976), (426, 30021), (429, 30036), (469, 30171), (492, 30225), (499, 30246), (509, 30279), (530, 30324), (551, 30378), (563, 30405), (583, 30462), (590, 30483), (614, 30525), (625, 30564), (642, 30624), (728, 30864), (736, 30897), (737, 30900), (751, 30933), (756, 30939), (789, 31002),

Gene: QueenPie_27 Start: 29065, Stop: 31362, Start Num: 37
Candidate Starts for QueenPie_27:
(Start: 1 @28378 has 1 MA's), (2, 28525), (4, 28936), (Start: 37 @29065 has 342 MA's), (74, 29164), (79, 29182), (104, 29269), (118, 29305), (143, 29368), (167, 29449), (189, 29515), (218, 29632), (228, 29671), (244, 29731), (265, 29812), (266, 29815), (283, 29878), (296, 29920), (298, 29926), (300, 29932), (335, 30055), (346, 30079), (360, 30142), (368, 30181), (392, 30253), (399, 30274), (410, 30310), (417, 30331), (436, 30397), (440, 30409), (453, 30460), (457, 30463), (460, 30481), (468, 30505), (476, 30532), (492, 30565), (499, 30586), (509, 30619), (530, 30664), (585, 30805), (586, 30808), (590, 30820), (626, 30904), (672, 31039), (682, 31063), (703, 31126), (710, 31156), (713, 31162), (728, 31210), (736, 31243), (737, 31246), (789, 31348), (790, 31351),

Gene: Quesadilla_31 Start: 30831, Stop: 33335, Start Num: 36
Candidate Starts for Quesadilla_31:
(Start: 36 @30831 has 1 MA's), (56, 30882), (74, 30930), (79, 30948), (97, 31005), (130, 31116), (138, 31143), (147, 31185), (213, 31419), (235, 31500), (236, 31503), (252, 31563), (259, 31590), (300, 31725), (306, 31752), (309, 31773), (346, 31872), (351, 31887), (355, 31905), (360, 31935), (374, 32001), (381, 32016), (389, 32037), (413, 32109), (418, 32124), (422, 32142), (424, 32145), (427, 32163), (439, 32196), (448, 32223), (477, 32328), (493, 32358), (503, 32388), (518, 32427), (525, 32439), (534, 32469), (548, 32505), (551, 32517), (595, 32640), (597, 32643), (603, 32646), (605, 32652), (614, 32676), (656, 32820), (666, 32844), (681, 32889), (688, 32913), (761, 33126), (780, 33162), (818, 33255),

Gene: Quisquiliae_31 Start: 28789, Stop: 31044, Start Num: 37
Candidate Starts for Quisquiliae_31:
(Start: 37 @28789 has 342 MA's), (74, 28885), (98, 28963), (104, 28990), (143, 29089), (192, 29248), (237, 29428), (244, 29452), (269, 29542), (271, 29548), (283, 29584), (295, 29623), (298, 29632), (306, 29665), (316, 29704), (334, 29749), (351, 29800), (361, 29851), (363, 29860), (380, 29929), (410, 30004), (426, 30049), (429, 30064), (469, 30199), (492, 30253), (499, 30274), (509, 30307), (530, 30352), (551, 30406), (563, 30433), (583, 30490), (590, 30511), (614, 30553), (625, 30592), (642, 30652), (728, 30892), (736, 30925), (737, 30928), (751, 30961), (756, 30967), (789, 31030),

Gene: RagingRooster_31 Start: 28614, Stop: 30842, Start Num: 28
Candidate Starts for RagingRooster_31:
(Start: 28 @28614 has 52 MA's), (Start: 40 @28629 has 1 MA's), (59, 28674), (79, 28731), (105, 28809), (135, 28878), (143, 28890), (158, 28932), (169, 28968), (179, 28995), (183, 29007), (190, 29034), (211, 29124), (229, 29196), (252, 29280), (286, 29388), (291, 29409), (316, 29502), (323, 29517), (360, 29646), (380, 29727), (410, 29802), (425, 29844), (426, 29850), (436, 29886), (469, 30000), (473, 30012), (492, 30054), (499, 30075), (521, 30129), (530, 30153), (546, 30189), (583, 30288), (586, 30297), (614, 30351), (645, 30459), (656, 30486), (672, 30528), (701, 30600), (728, 30690), (737, 30726),

Gene: Ranch_30 Start: 25269, Stop: 27248, Start Num: 5
Candidate Starts for Ranch_30:
(Start: 5 @25269 has 38 MA's), (29, 25383), (34, 25392), (39, 25401), (41, 25404), (45, 25413), (73, 25482), (94, 25545), (96, 25548), (113, 25587), (119, 25608), (136, 25662), (192, 25839), (209, 25914), (244, 26046), (251, 26073), (252, 26076), (254, 26079), (283, 26166), (298, 26214), (300, 26220), (306, 26247), (331, 26325), (344, 26376), (380, 26535), (394, 26568), (425, 26670), (433, 26706), (536, 27012), (551, 27057), (553, 27063), (578, 27123),

Gene: RawrgerThat_28 Start: 28967, Stop: 31264, Start Num: 37
Candidate Starts for RawrgerThat_28:

(Start: 37 @28967 has 342 MA's), (74, 29066), (79, 29084), (118, 29207), (143, 29270), (167, 29351), (189, 29417), (218, 29534), (228, 29573), (241, 29624), (244, 29633), (258, 29690), (265, 29714), (266, 29717), (283, 29780), (296, 29822), (335, 29957), (346, 29981), (360, 30044), (392, 30155), (399, 30176), (410, 30212), (417, 30233), (436, 30299), (440, 30311), (453, 30362), (457, 30365), (460, 30383), (468, 30407), (476, 30434), (492, 30467), (499, 30488), (509, 30521), (530, 30566), (585, 30707), (586, 30710), (590, 30722), (626, 30806), (664, 30920), (672, 30941), (682, 30965), (703, 31028), (710, 31058), (713, 31064), (728, 31112), (736, 31145), (737, 31148), (789, 31250), (790, 31253),

Gene: RazorC_28 Start: 24739, Stop: 26739, Start Num: 5
Candidate Starts for RazorC_28:
(Start: 5 @24739 has 38 MA's), (29, 24853), (34, 24862), (39, 24871), (41, 24874), (45, 24883), (73, 24952), (136, 25138), (192, 25315), (244, 25522), (252, 25552), (264, 25588), (269, 25603), (283, 25642), (298, 25690), (300, 25696), (306, 25723), (327, 25789), (353, 25876), (380, 26011), (394, 26044), (397, 26056), (433, 26185), (455, 26269), (506, 26422), (509, 26434), (541, 26515), (551, 26551), (553, 26557), (578, 26617), (617, 26713),

Gene: Reccee_30 Start: 29161, Stop: 31437, Start Num: 37
Candidate Starts for Reccee_30:
(Start: 37 @29161 has 342 MA's), (Start: 40 @29167 has 1 MA's), (56, 29209), (63, 29230), (67, 29239), (85, 29293), (90, 29314), (97, 29332), (98, 29335), (113, 29377), (118, 29395), (143, 29464), (151, 29500), (192, 29623), (218, 29728), (258, 29884), (266, 29911), (280, 29962), (295, 30013), (300, 30028), (361, 30241), (368, 30277), (380, 30319), (410, 30394), (453, 30544), (461, 30568), (469, 30595), (499, 30670), (521, 30724), (583, 30883), (586, 30892), (590, 30904), (625, 30985), (626, 30988), (645, 31054), (664, 31102), (689, 31168), (728, 31285),

Gene: Red305_21 Start: 19724, Stop: 22237, Start Num: 18
Candidate Starts for Red305_21:
(Start: 18 @19724 has 19 MA's), (41, 19787), (68, 19859), (98, 19949), (101, 19955), (127, 20027), (150, 20114), (189, 20219), (192, 20231), (196, 20249), (204, 20288), (212, 20318), (228, 20375), (235, 20405), (237, 20411), (250, 20465), (253, 20471), (294, 20618), (295, 20621), (298, 20630), (303, 20648), (318, 20708), (321, 20717), (325, 20729), (343, 20780), (345, 20783), (386, 20948), (407, 21005), (438, 21089), (444, 21107), (447, 21116), (468, 21179), (514, 21299), (529, 21323), (538, 21344), (544, 21359), (550, 21377), (559, 21407), (589, 21497), (622, 21566), (630, 21599), (636, 21620), (648, 21656), (661, 21692), (675, 21737), (682, 21761), (685, 21767), (689, 21782), (694, 21800), (728, 21887), (733, 21911), (744, 21947), (747, 21953), (760, 21977), (797, 22052), (799, 22055), (832, 22142), (834, 22151), (835, 22157),

Gene: RedMaple_30 Start: 28765, Stop: 31023, Start Num: 37
Candidate Starts for RedMaple_30:
(Start: 37 @28765 has 342 MA's), (74, 28861), (98, 28939), (104, 28966), (143, 29068), (192, 29227), (237, 29407), (244, 29431), (271, 29527), (283, 29563), (295, 29602), (298, 29611), (306, 29644), (316, 29683), (334, 29728), (351, 29779), (361, 29830), (363, 29839), (380, 29908), (410, 29983), (426, 30028), (429, 30043), (469, 30178), (492, 30232), (499, 30253), (509, 30286), (530, 30331), (551, 30385), (563, 30412), (583, 30469), (590, 30490), (614, 30532), (625, 30571), (642, 30631), (728, 30871), (737, 30907), (751, 30940), (789, 31009),

Gene: RedRaider_50 Start: 35482, Stop: 38040, Start Num: 78
Candidate Starts for RedRaider_50:
(Start: 78 @35482 has 15 MA's), (120, 35611), (223, 35950), (224, 35953), (258, 36082), (296, 36190), (306, 36229), (341, 36337), (383, 36493), (420, 36601), (457, 36733), (574, 37063), (614, 37168), (620, 37186), (628, 37219), (650, 37294), (672, 37363), (686, 37399), (696, 37432), (724, 37522), (740, 37576), (741, 37579), (754, 37618), (756, 37621), (803, 37717), (830, 37798), (834, 37813),

(835, 37819), (848, 37891), (856, 37921), (861, 37948), (863, 38011),

Gene: RedRaider89_32 Start: 28988, Stop: 31243, Start Num: 37
Candidate Starts for RedRaider89_32:
(Start: 37 @28988 has 342 MA's), (74, 29084), (98, 29162), (104, 29189), (143, 29288), (192, 29447), (237, 29627), (244, 29651), (271, 29747), (283, 29783), (295, 29822), (298, 29831), (306, 29864), (316, 29903), (334, 29948), (351, 29999), (361, 30050), (363, 30059), (380, 30128), (410, 30203), (426, 30248), (429, 30263), (469, 30398), (492, 30452), (499, 30473), (509, 30506), (530, 30551), (551, 30605), (563, 30632), (583, 30689), (590, 30710), (614, 30752), (625, 30791), (642, 30851), (728, 31091), (737, 31127), (751, 31160), (789, 31229),

Gene: Renkei_27 Start: 27972, Stop: 30269, Start Num: 37
Candidate Starts for Renkei_27:
(Start: 37 @27972 has 342 MA's), (74, 28071), (104, 28176), (118, 28212), (143, 28275), (167, 28356), (189, 28422), (192, 28434), (218, 28539), (228, 28578), (241, 28629), (244, 28638), (265, 28719), (266, 28722), (283, 28785), (296, 28827), (300, 28839), (335, 28962), (346, 28986), (360, 29049), (368, 29088), (392, 29160), (399, 29181), (410, 29217), (417, 29238), (436, 29304), (440, 29316), (453, 29367), (457, 29370), (460, 29388), (468, 29412), (476, 29439), (492, 29472), (499, 29493), (509, 29526), (530, 29571), (585, 29712), (586, 29715), (590, 29727), (626, 29811), (672, 29946), (682, 29970), (703, 30033), (710, 30063), (713, 30069), (728, 30117), (736, 30150), (737, 30153), (789, 30255), (790, 30258),

Gene: Reprobate_30 Start: 29236, Stop: 31503, Start Num: 37
Candidate Starts for Reprobate_30:
(Start: 37 @29236 has 342 MA's), (74, 29332), (90, 29389), (97, 29407), (113, 29452), (218, 29803), (243, 29899), (245, 29905), (252, 29935), (258, 29959), (266, 29986), (295, 30076), (300, 30091), (354, 30271), (361, 30307), (368, 30343), (380, 30385), (410, 30460), (417, 30481), (426, 30511), (453, 30610), (461, 30634), (469, 30661), (492, 30715), (499, 30736), (509, 30769), (552, 30871), (583, 30949), (586, 30958), (590, 30970), (625, 31051), (626, 31054), (641, 31108), (645, 31120), (658, 31150), (664, 31168), (689, 31234), (707, 31282), (728, 31351), (789, 31489), (790, 31492),

Gene: Reptar3000_28 Start: 22013, Stop: 24316, Start Num: 66
Candidate Starts for Reptar3000_28:
(Start: 66 @22013 has 18 MA's), (83, 22061), (87, 22070), (106, 22124), (144, 22157), (185, 22265), (214, 22394), (228, 22445), (230, 22454), (252, 22535), (271, 22592), (288, 22652), (291, 22664), (296, 22679), (298, 22685), (306, 22718), (319, 22766), (344, 22820), (364, 22892), (421, 23072), (449, 23153), (502, 23303), (521, 23345), (543, 23402), (547, 23414), (574, 23519), (596, 23585), (607, 23600), (636, 23696), (685, 23849), (689, 23864), (692, 23870), (698, 23894), (712, 23933), (718, 23945), (744, 24041), (763, 24077), (772, 24092), (774, 24095), (783, 24116), (790, 24131), (825, 24200), (834, 24230), (859, 24308),

Gene: Rich_29 Start: 28722, Stop: 30989, Start Num: 37
Candidate Starts for Rich_29:
(Start: 37 @28722 has 342 MA's), (Start: 40 @28728 has 1 MA's), (59, 28779), (67, 28800), (85, 28854), (88, 28866), (90, 28875), (97, 28893), (118, 28956), (218, 29289), (245, 29391), (258, 29445), (295, 29565), (300, 29580), (306, 29607), (361, 29793), (368, 29829), (380, 29871), (417, 29967), (426, 29997), (453, 30096), (469, 30147), (521, 30276), (530, 30300), (575, 30414), (583, 30435), (614, 30498), (625, 30537), (626, 30540), (645, 30606), (658, 30636), (664, 30654), (689, 30720), (701, 30747), (728, 30837), (751, 30906), (789, 30975), (790, 30978),

Gene: Richo_27 Start: 20230, Stop: 22731, Start Num: 24
Candidate Starts for Richo_27:

(Start: 24 @20230 has 60 MA's), (44, 20278), (63, 20329), (89, 20401), (141, 20452), (144, 20470), (155, 20503), (164, 20524), (169, 20536), (188, 20590), (204, 20668), (214, 20707), (229, 20764), (238, 20800), (254, 20851), (267, 20881), (272, 20896), (277, 20920), (288, 20953), (294, 20974), (296, 20980), (306, 21019), (352, 21172), (357, 21205), (360, 21217), (374, 21280), (406, 21364), (459, 21547), (476, 21601), (496, 21643), (565, 21835), (568, 21841), (574, 21865), (594, 21928), (614, 21967), (633, 22030), (645, 22087), (657, 22120), (663, 22138), (675, 22177), (687, 22216), (689, 22222), (709, 22279), (744, 22393), (775, 22447), (782, 22462), (796, 22492), (803, 22504), (823, 22561), (829, 22579), (837, 22609), (838, 22627), (858, 22708),

Gene: Ricotta_30 Start: 28488, Stop: 30743, Start Num: 37
Candidate Starts for Ricotta_30:
(Start: 37 @28488 has 342 MA's), (74, 28584), (98, 28662), (104, 28689), (143, 28788), (192, 28947), (237, 29127), (244, 29151), (269, 29241), (271, 29247), (283, 29283), (295, 29322), (298, 29331), (306, 29364), (316, 29403), (334, 29448), (351, 29499), (361, 29550), (363, 29559), (380, 29628), (410, 29703), (426, 29748), (429, 29763), (469, 29898), (492, 29952), (499, 29973), (509, 30006), (530, 30051), (551, 30105), (563, 30132), (583, 30189), (590, 30210), (614, 30252), (625, 30291), (642, 30351), (728, 30591), (737, 30627), (751, 30660), (789, 30729),

Gene: Riduram_27 Start: 24317, Stop: 26317, Start Num: 5
Candidate Starts for Riduram_27:
(Start: 5 @24317 has 38 MA's), (29, 24431), (34, 24440), (39, 24449), (41, 24452), (45, 24461), (73, 24530), (136, 24716), (192, 24893), (244, 25100), (252, 25130), (264, 25166), (269, 25181), (283, 25220), (298, 25268), (300, 25274), (306, 25301), (327, 25367), (353, 25454), (380, 25589), (394, 25622), (397, 25634), (433, 25763), (455, 25847), (506, 26000), (509, 26012), (541, 26093), (551, 26129), (553, 26135), (578, 26195), (617, 26291),

Gene: Riggan_31 Start: 28747, Stop: 31002, Start Num: 37
Candidate Starts for Riggan_31:
(Start: 37 @28747 has 342 MA's), (74, 28843), (98, 28921), (104, 28948), (143, 29047), (192, 29206), (237, 29386), (244, 29410), (269, 29500), (271, 29506), (283, 29542), (295, 29581), (298, 29590), (306, 29623), (316, 29662), (334, 29707), (351, 29758), (361, 29809), (363, 29818), (380, 29887), (410, 29962), (426, 30007), (429, 30022), (469, 30157), (492, 30211), (499, 30232), (509, 30265), (530, 30310), (551, 30364), (563, 30391), (583, 30448), (590, 30469), (614, 30511), (625, 30550), (642, 30610), (728, 30850), (736, 30883), (737, 30886), (751, 30919), (756, 30925), (789, 30988),

Gene: Rimu_31 Start: 28496, Stop: 30751, Start Num: 37
Candidate Starts for Rimu_31:
(Start: 37 @28496 has 342 MA's), (74, 28592), (98, 28670), (104, 28697), (143, 28796), (192, 28955), (237, 29135), (244, 29159), (271, 29255), (283, 29291), (295, 29330), (298, 29339), (306, 29372), (316, 29411), (334, 29456), (351, 29507), (361, 29558), (363, 29567), (380, 29636), (410, 29711), (426, 29756), (429, 29771), (469, 29906), (492, 29960), (499, 29981), (509, 30014), (530, 30059), (551, 30113), (563, 30140), (583, 30197), (590, 30218), (614, 30260), (625, 30299), (642, 30359), (728, 30599), (737, 30635), (751, 30668), (789, 30737),

Gene: Rita130_30 Start: 28981, Stop: 31257, Start Num: 37
Candidate Starts for Rita130_30:
(Start: 37 @28981 has 342 MA's), (Start: 40 @28987 has 1 MA's), (56, 29029), (63, 29050), (67, 29059), (85, 29113), (90, 29134), (97, 29152), (98, 29155), (113, 29197), (116, 29203), (118, 29215), (143, 29284), (151, 29320), (192, 29443), (218, 29548), (258, 29704), (266, 29731), (280, 29782), (295, 29833), (300, 29848), (361, 30061), (368, 30097), (380, 30139), (410, 30214), (453, 30364), (461, 30388), (469, 30415), (499, 30490), (521, 30544), (583, 30703), (586, 30712), (590, 30724), (625, 30805), (626, 30808), (645, 30874), (664, 30922), (689, 30988), (728, 31105),

Gene: Rita1961_31 Start: 28615, Stop: 30825, Start Num: 40
Candidate Starts for Rita1961_31:
(Start: 28 @28600 has 52 MA's), (Start: 40 @28615 has 1 MA's), (59, 28660), (79, 28717), (105, 28795), (135, 28864), (143, 28876), (158, 28918), (169, 28954), (179, 28981), (183, 28993), (190, 29020), (211, 29110), (229, 29182), (252, 29266), (286, 29374), (291, 29395), (316, 29488), (323, 29503), (360, 29632), (380, 29713), (410, 29788), (425, 29830), (426, 29836), (436, 29872), (469, 29986), (473, 29998), (492, 30040), (499, 30061), (521, 30115), (530, 30139), (546, 30175), (583, 30271), (586, 30280), (614, 30334), (645, 30442), (656, 30469), (672, 30511), (701, 30583), (728, 30673), (737, 30709),

Gene: Riverton_31 Start: 28765, Stop: 31023, Start Num: 37
Candidate Starts for Riverton_31:
(Start: 37 @28765 has 342 MA's), (74, 28861), (98, 28939), (104, 28966), (143, 29068), (192, 29227), (237, 29407), (244, 29431), (271, 29527), (283, 29563), (295, 29602), (298, 29611), (306, 29644), (316, 29683), (334, 29728), (351, 29779), (361, 29830), (363, 29839), (380, 29908), (410, 29983), (426, 30028), (429, 30043), (469, 30178), (492, 30232), (499, 30253), (509, 30286), (530, 30331), (551, 30385), (563, 30412), (583, 30469), (590, 30490), (614, 30532), (625, 30571), (642, 30631), (728, 30871), (736, 30904), (737, 30907), (751, 30940), (756, 30946), (789, 31009),

Gene: Robyn_30 Start: 28329, Stop: 30587, Start Num: 37
Candidate Starts for Robyn_30:
(Start: 37 @28329 has 342 MA's), (74, 28425), (98, 28503), (104, 28530), (143, 28632), (192, 28791), (237, 28971), (244, 28995), (271, 29091), (283, 29127), (295, 29166), (306, 29208), (316, 29247), (334, 29292), (351, 29343), (361, 29394), (363, 29403), (380, 29472), (410, 29547), (426, 29592), (429, 29607), (469, 29742), (492, 29796), (499, 29817), (509, 29850), (530, 29895), (551, 29949), (583, 30033), (590, 30054), (614, 30096), (625, 30135), (642, 30195), (728, 30435), (736, 30468), (737, 30471), (751, 30504), (756, 30510), (789, 30573),

Gene: Roliet_31 Start: 28757, Stop: 31012, Start Num: 37
Candidate Starts for Roliet_31:
(Start: 37 @28757 has 342 MA's), (74, 28853), (98, 28931), (104, 28958), (143, 29057), (192, 29216), (237, 29396), (244, 29420), (271, 29516), (283, 29552), (295, 29591), (298, 29600), (306, 29633), (316, 29672), (334, 29717), (351, 29768), (361, 29819), (363, 29828), (380, 29897), (410, 29972), (426, 30017), (429, 30032), (469, 30167), (492, 30221), (499, 30242), (509, 30275), (530, 30320), (551, 30374), (563, 30401), (583, 30458), (590, 30479), (614, 30521), (625, 30560), (642, 30620), (728, 30860), (737, 30896), (751, 30929), (789, 30998),

Gene: RomaT_31 Start: 29390, Stop: 31615, Start Num: 28
Candidate Starts for RomaT_31:
(Start: 28 @29390 has 52 MA's), (Start: 40 @29405 has 1 MA's), (59, 29450), (79, 29507), (105, 29585), (135, 29654), (143, 29666), (158, 29708), (169, 29744), (179, 29771), (183, 29783), (190, 29810), (211, 29900), (229, 29972), (252, 30056), (286, 30164), (291, 30185), (316, 30278), (323, 30293), (360, 30422), (380, 30503), (410, 30578), (425, 30620), (426, 30626), (436, 30662), (453, 30725), (469, 30776), (473, 30788), (492, 30830), (499, 30851), (521, 30905), (530, 30929), (546, 30965), (583, 31061), (586, 31070), (614, 31124), (645, 31232), (656, 31259), (672, 31301), (701, 31373), (728, 31463), (737, 31499),

Gene: Roscoe_32 Start: 28995, Stop: 31250, Start Num: 37
Candidate Starts for Roscoe_32:
(Start: 37 @28995 has 342 MA's), (74, 29091), (98, 29169), (104, 29196), (143, 29295), (192, 29454), (237, 29634), (244, 29658), (269, 29748), (271, 29754), (283, 29790), (295, 29829), (298, 29838), (306, 29871), (316, 29910), (334, 29955), (351, 30006), (361, 30057), (363, 30066), (380, 30135), (410, 30210), (426, 30255), (429, 30270), (469, 30405), (491, 30456), (492, 30459), (499, 30480),

(509, 30513), (530, 30558), (551, 30612), (583, 30696), (590, 30717), (614, 30759), (625, 30798), (642, 30858), (728, 31098), (736, 31131), (737, 31134), (751, 31167), (756, 31173), (789, 31236),

Gene: Rota_29 Start: 26622, Stop: 28628, Start Num: 5
Candidate Starts for Rota_29:
(Start: 5 @26622 has 38 MA's), (29, 26736), (34, 26745), (39, 26754), (41, 26757), (45, 26766), (73, 26835), (192, 27198), (209, 27273), (218, 27306), (249, 27429), (252, 27435), (300, 27579), (304, 27597), (306, 27606), (353, 27759), (376, 27882), (380, 27894), (394, 27927), (468, 28200), (541, 28401), (551, 28437), (553, 28443), (578, 28503),

Gene: Roy17_31 Start: 28461, Stop: 30716, Start Num: 37
Candidate Starts for Roy17_31:
(Start: 37 @28461 has 342 MA's), (74, 28557), (98, 28635), (104, 28662), (143, 28761), (192, 28920), (237, 29100), (244, 29124), (269, 29214), (271, 29220), (283, 29256), (295, 29295), (298, 29304), (306, 29337), (316, 29376), (334, 29421), (351, 29472), (361, 29523), (363, 29532), (380, 29601), (410, 29676), (426, 29721), (429, 29736), (469, 29871), (492, 29925), (499, 29946), (509, 29979), (530, 30024), (551, 30078), (583, 30162), (590, 30183), (614, 30225), (625, 30264), (642, 30324), (728, 30564), (736, 30597), (737, 30600), (751, 30633), (756, 30639), (789, 30702),

Gene: Rukungu_30 Start: 26971, Stop: 28950, Start Num: 5
Candidate Starts for Rukungu_30:
(Start: 5 @26971 has 38 MA's), (29, 27085), (34, 27094), (39, 27103), (41, 27106), (45, 27115), (73, 27184), (91, 27241), (192, 27547), (209, 27622), (244, 27754), (251, 27781), (252, 27784), (254, 27787), (283, 27874), (298, 27922), (300, 27928), (306, 27955), (331, 28033), (344, 28084), (380, 28243), (394, 28276), (433, 28411), (536, 28717), (551, 28762), (553, 28768), (578, 28828), (614, 28915), (617, 28924),

Gene: Rumi_29 Start: 24350, Stop: 26350, Start Num: 5
Candidate Starts for Rumi_29:
(Start: 5 @24350 has 38 MA's), (29, 24464), (34, 24473), (39, 24482), (41, 24485), (45, 24494), (73, 24563), (136, 24749), (192, 24926), (244, 25133), (252, 25163), (264, 25199), (269, 25214), (283, 25253), (298, 25301), (300, 25307), (306, 25334), (327, 25400), (353, 25487), (380, 25622), (394, 25655), (397, 25667), (433, 25796), (479, 25967), (506, 26033), (509, 26045), (541, 26126), (551, 26162), (553, 26168), (578, 26228), (617, 26324),

Gene: SDcharge11_31 Start: 28735, Stop: 30990, Start Num: 37
Candidate Starts for SDcharge11_31:
(Start: 37 @28735 has 342 MA's), (74, 28831), (98, 28909), (104, 28936), (143, 29035), (192, 29194), (237, 29374), (244, 29398), (271, 29494), (283, 29530), (295, 29569), (298, 29578), (306, 29611), (316, 29650), (334, 29695), (351, 29746), (361, 29797), (363, 29806), (380, 29875), (410, 29950), (426, 29995), (429, 30010), (469, 30145), (492, 30199), (499, 30220), (509, 30253), (530, 30298), (551, 30352), (563, 30379), (583, 30436), (590, 30457), (614, 30499), (625, 30538), (642, 30598), (728, 30838), (737, 30874), (751, 30907), (789, 30976),

Gene: Sadboi_30 Start: 27111, Stop: 29111, Start Num: 5
Candidate Starts for Sadboi_30:
(Start: 5 @27111 has 38 MA's), (29, 27225), (34, 27234), (39, 27243), (41, 27246), (45, 27255), (73, 27324), (136, 27510), (192, 27687), (244, 27894), (251, 27921), (252, 27924), (254, 27927), (283, 28014), (298, 28062), (300, 28068), (306, 28095), (331, 28173), (344, 28224), (376, 28371), (380, 28383), (394, 28416), (397, 28428), (468, 28689), (541, 28890), (551, 28926), (553, 28932), (578, 28992),

Gene: Saguaro_31 Start: 30959, Stop: 33436, Start Num: 37

Candidate Starts for Saguaro_31:
(Start: 37 @30959 has 342 MA's), (43, 30971), (74, 31055), (75, 31061), (79, 31073), (97, 31130), (114, 31181), (147, 31301), (162, 31346), (173, 31382), (183, 31406), (210, 31520), (213, 31535), (236, 31619), (249, 31673), (259, 31706), (264, 31721), (282, 31781), (286, 31793), (288, 31799), (300, 31838), (306, 31865), (309, 31886), (316, 31904), (323, 31919), (346, 31985), (351, 32000), (360, 32048), (374, 32114), (389, 32153), (408, 32207), (424, 32261), (427, 32279), (439, 32312), (476, 32438), (493, 32474), (518, 32543), (525, 32555), (534, 32585), (544, 32609), (551, 32633), (571, 32690), (592, 32750), (595, 32756), (603, 32762), (605, 32768), (611, 32780), (614, 32792), (615, 32795), (621, 32813), (633, 32855), (656, 32936), (658, 32939), (666, 32960), (687, 33026), (689, 33032), (717, 33113), (723, 33137), (778, 33263), (796, 33302), (798, 33305), (802, 33311), (805, 33329), (818, 33359), (825, 33380), (835, 33416),

Gene: Salazzle_31 Start: 28337, Stop: 30592, Start Num: 37
Candidate Starts for Salazzle_31:
(Start: 37 @28337 has 342 MA's), (74, 28433), (98, 28511), (104, 28538), (143, 28637), (192, 28796), (237, 28976), (244, 29000), (269, 29090), (271, 29096), (283, 29132), (295, 29171), (298, 29180), (306, 29213), (316, 29252), (334, 29297), (351, 29348), (361, 29399), (363, 29408), (380, 29477), (410, 29552), (426, 29597), (429, 29612), (469, 29747), (492, 29801), (499, 29822), (509, 29855), (530, 29900), (551, 29954), (563, 29981), (583, 30038), (590, 30059), (614, 30101), (625, 30140), (642, 30200), (728, 30440), (736, 30473), (737, 30476), (751, 30509), (756, 30515), (789, 30578),

Gene: SallyH_31 Start: 28771, Stop: 31026, Start Num: 37
Candidate Starts for SallyH_31:
(Start: 37 @28771 has 342 MA's), (74, 28867), (98, 28945), (104, 28972), (143, 29071), (192, 29230), (237, 29410), (244, 29434), (269, 29524), (271, 29530), (283, 29566), (295, 29605), (298, 29614), (306, 29647), (316, 29686), (334, 29731), (351, 29782), (361, 29833), (363, 29842), (380, 29911), (410, 29986), (426, 30031), (429, 30046), (469, 30181), (492, 30235), (499, 30256), (509, 30289), (530, 30334), (551, 30388), (583, 30472), (590, 30493), (614, 30535), (625, 30574), (642, 30634), (728, 30874), (736, 30907), (737, 30910), (751, 30943), (756, 30949), (789, 31012),

Gene: Salvus_25 Start: 19700, Stop: 22018, Start Num: 38
Candidate Starts for Salvus_25:
(Start: 38 @19700 has 2 MA's), (106, 19901), (128, 19946), (131, 19958), (168, 20069), (192, 20135), (220, 20249), (229, 20276), (291, 20498), (297, 20516), (306, 20552), (324, 20612), (351, 20687), (356, 20714), (362, 20741), (371, 20777), (395, 20834), (482, 21029), (514, 21098), (527, 21116), (529, 21122), (530, 21125), (531, 21128), (572, 21245), (575, 21251), (612, 21329), (629, 21377), (630, 21380), (655, 21458), (670, 21509), (677, 21524), (681, 21536), (706, 21599), (712, 21620), (720, 21641), (735, 21698), (742, 21719), (760, 21758), (782, 21800), (797, 21833), (801, 21839), (804, 21854), (835, 21938),

Gene: Samaymay_31 Start: 28761, Stop: 31016, Start Num: 37
Candidate Starts for Samaymay_31:
(Start: 37 @28761 has 342 MA's), (74, 28857), (98, 28935), (104, 28962), (143, 29061), (192, 29220), (237, 29400), (244, 29424), (269, 29514), (271, 29520), (283, 29556), (295, 29595), (298, 29604), (306, 29637), (316, 29676), (334, 29721), (351, 29772), (361, 29823), (363, 29832), (380, 29901), (410, 29976), (426, 30021), (429, 30036), (469, 30171), (492, 30225), (499, 30246), (509, 30279), (530, 30324), (551, 30378), (563, 30405), (583, 30462), (590, 30483), (614, 30525), (625, 30564), (642, 30624), (728, 30864), (736, 30897), (737, 30900), (751, 30933), (756, 30939), (789, 31002),

Gene: Sampudon_30 Start: 27278, Stop: 29284, Start Num: 5
Candidate Starts for Sampudon_30:
(Start: 5 @27278 has 38 MA's), (29, 27392), (34, 27401), (39, 27410), (41, 27413), (45, 27422), (73, 27491), (192, 27854), (209, 27929), (244, 28061), (251, 28088), (252, 28091), (254, 28094), (283,

28181), (298, 28229), (300, 28235), (306, 28262), (331, 28340), (344, 28391), (380, 28550), (394, 28583), (419, 28664), (460, 28832), (468, 28856), (551, 29093), (553, 29099), (567, 29129), (578, 29162), (617, 29258),

Gene: Samty_21 Start: 19727, Stop: 22240, Start Num: 18
Candidate Starts for Samty_21:
(Start: 18 @19727 has 19 MA's), (41, 19790), (68, 19862), (98, 19952), (101, 19958), (127, 20030), (189, 20222), (192, 20234), (196, 20252), (204, 20291), (212, 20321), (228, 20378), (235, 20408), (237, 20414), (250, 20468), (253, 20474), (294, 20621), (295, 20624), (298, 20633), (303, 20651), (318, 20711), (321, 20720), (325, 20732), (343, 20783), (345, 20786), (386, 20951), (407, 21008), (438, 21092), (444, 21110), (447, 21119), (468, 21182), (514, 21302), (538, 21347), (544, 21362), (550, 21380), (559, 21410), (589, 21500), (622, 21569), (630, 21602), (636, 21623), (648, 21659), (661, 21695), (675, 21740), (682, 21764), (685, 21770), (689, 21785), (694, 21803), (709, 21836), (728, 21890), (733, 21914), (744, 21950), (747, 21956), (760, 21980), (832, 22145), (834, 22154), (835, 22160),

Gene: SassyCat97_30 Start: 28467, Stop: 30722, Start Num: 37
Candidate Starts for SassyCat97_30:
(Start: 37 @28467 has 342 MA's), (74, 28563), (98, 28641), (104, 28668), (143, 28767), (192, 28926), (237, 29106), (244, 29130), (269, 29220), (271, 29226), (283, 29262), (295, 29301), (298, 29310), (306, 29343), (316, 29382), (334, 29427), (351, 29478), (361, 29529), (363, 29538), (380, 29607), (410, 29682), (426, 29727), (429, 29742), (469, 29877), (492, 29931), (499, 29952), (509, 29985), (530, 30030), (551, 30084), (563, 30111), (583, 30168), (590, 30189), (614, 30231), (625, 30270), (642, 30330), (728, 30570), (736, 30603), (737, 30606), (751, 30639), (756, 30645), (789, 30708),

Gene: Schadenfreude_30 Start: 28315, Stop: 30573, Start Num: 37
Candidate Starts for Schadenfreude_30:
(Start: 37 @28315 has 342 MA's), (74, 28411), (98, 28489), (104, 28516), (143, 28618), (192, 28777), (237, 28957), (244, 28981), (271, 29077), (283, 29113), (295, 29152), (298, 29161), (306, 29194), (316, 29233), (334, 29278), (351, 29329), (361, 29380), (363, 29389), (380, 29458), (410, 29533), (426, 29578), (429, 29593), (469, 29728), (492, 29782), (499, 29803), (509, 29836), (530, 29881), (551, 29935), (583, 30019), (590, 30040), (614, 30082), (625, 30121), (642, 30181), (728, 30421), (736, 30454), (737, 30457), (751, 30490), (756, 30496), (789, 30559),

Gene: Schueller_30 Start: 28482, Stop: 30737, Start Num: 37
Candidate Starts for Schueller_30:
(Start: 37 @28482 has 342 MA's), (74, 28578), (98, 28656), (104, 28683), (143, 28782), (192, 28941), (237, 29121), (244, 29145), (269, 29235), (271, 29241), (283, 29277), (295, 29316), (298, 29325), (306, 29358), (316, 29397), (334, 29442), (351, 29493), (361, 29544), (363, 29553), (380, 29622), (410, 29697), (426, 29742), (429, 29757), (469, 29892), (492, 29946), (499, 29967), (509, 30000), (530, 30045), (551, 30099), (563, 30126), (583, 30183), (590, 30204), (614, 30246), (625, 30285), (642, 30345), (728, 30585), (737, 30621), (751, 30654), (789, 30723),

Gene: Scitech_20 Start: 17553, Stop: 20192, Start Num: 9
Candidate Starts for Scitech_20:
(7, 17541), (Start: 9 @17553 has 17 MA's), (13, 17565), (52, 17676), (Start: 61 @17700 has 1 MA's), (62, 17703), (65, 17712), (112, 17850), (125, 17892), (126, 17895), (157, 17985), (160, 17994), (161, 17997), (170, 18018), (174, 18030), (186, 18063), (200, 18117), (215, 18189), (224, 18219), (233, 18255), (247, 18318), (254, 18333), (262, 18360), (265, 18366), (288, 18441), (294, 18465), (296, 18471), (300, 18483), (307, 18525), (309, 18531), (337, 18618), (368, 18750), (372, 18768), (382, 18801), (392, 18828), (406, 18879), (468, 19089), (494, 19155), (507, 19191), (544, 19290), (548, 19302), (568, 19365), (627, 19527), (633, 19542), (645, 19593), (685, 19710), (700, 19755), (718, 19797), (728, 19833), (743, 19887), (768, 19935), (833, 20079), (845, 20136), (855, 20175), (859,

20184),

Gene: Scoot17C_31 Start: 28760, Stop: 31015, Start Num: 37
Candidate Starts for Scoot17C_31:
(Start: 37 @28760 has 342 MA's), (74, 28856), (98, 28934), (104, 28961), (143, 29060), (192, 29219), (237, 29399), (244, 29423), (269, 29513), (271, 29519), (283, 29555), (295, 29594), (298, 29603), (306, 29636), (316, 29675), (334, 29720), (351, 29771), (361, 29822), (363, 29831), (380, 29900), (410, 29975), (426, 30020), (429, 30035), (469, 30170), (492, 30224), (499, 30245), (509, 30278), (530, 30323), (551, 30377), (583, 30461), (590, 30482), (614, 30524), (625, 30563), (642, 30623), (728, 30863), (736, 30896), (737, 30899), (751, 30932), (756, 30938), (789, 31001),

Gene: Scrick_31 Start: 28485, Stop: 30740, Start Num: 37
Candidate Starts for Scrick_31:
(Start: 37 @28485 has 342 MA's), (74, 28581), (98, 28659), (104, 28686), (143, 28785), (192, 28944), (237, 29124), (244, 29148), (269, 29238), (271, 29244), (283, 29280), (295, 29319), (298, 29328), (306, 29361), (316, 29400), (334, 29445), (351, 29496), (361, 29547), (363, 29556), (380, 29625), (410, 29700), (426, 29745), (429, 29760), (469, 29895), (492, 29949), (499, 29970), (509, 30003), (530, 30048), (551, 30102), (563, 30129), (583, 30186), (590, 30207), (614, 30249), (625, 30288), (642, 30348), (728, 30588), (736, 30621), (737, 30624), (751, 30657), (756, 30663), (789, 30726),

Gene: Selr12_31 Start: 28489, Stop: 30744, Start Num: 37
Candidate Starts for Selr12_31:
(Start: 37 @28489 has 342 MA's), (74, 28585), (98, 28663), (104, 28690), (143, 28789), (192, 28948), (237, 29128), (244, 29152), (269, 29242), (271, 29248), (283, 29284), (295, 29323), (298, 29332), (306, 29365), (316, 29404), (334, 29449), (351, 29500), (361, 29551), (363, 29560), (380, 29629), (410, 29704), (426, 29749), (429, 29764), (469, 29899), (492, 29953), (499, 29974), (509, 30007), (530, 30052), (551, 30106), (563, 30133), (583, 30190), (590, 30211), (614, 30253), (625, 30292), (642, 30352), (728, 30592), (737, 30628), (751, 30661), (789, 30730),

Gene: Septica_30 Start: 28768, Stop: 31026, Start Num: 37
Candidate Starts for Septica_30:
(Start: 37 @28768 has 342 MA's), (74, 28864), (98, 28942), (104, 28969), (143, 29071), (192, 29230), (237, 29410), (244, 29434), (271, 29530), (283, 29566), (295, 29605), (298, 29614), (306, 29647), (316, 29686), (334, 29731), (351, 29782), (361, 29833), (363, 29842), (380, 29911), (410, 29986), (426, 30031), (429, 30046), (469, 30181), (492, 30235), (499, 30256), (509, 30289), (530, 30334), (551, 30388), (583, 30472), (590, 30493), (614, 30535), (625, 30574), (642, 30634), (728, 30874), (736, 30907), (737, 30910), (751, 30943), (756, 30949), (789, 31012),

Gene: Serendipitous_29 Start: 28782, Stop: 31049, Start Num: 37
Candidate Starts for Serendipitous_29:
(Start: 37 @28782 has 342 MA's), (85, 28914), (90, 28935), (97, 28953), (113, 28998), (151, 29121), (218, 29349), (245, 29451), (252, 29481), (258, 29505), (295, 29625), (300, 29640), (348, 29793), (361, 29853), (368, 29889), (380, 29931), (410, 30006), (426, 30057), (453, 30156), (461, 30180), (469, 30207), (552, 30417), (583, 30495), (586, 30504), (590, 30516), (625, 30597), (626, 30600), (630, 30612), (645, 30666), (664, 30714), (689, 30780), (728, 30897), (789, 31035),

Gene: Serendipity_31 Start: 28785, Stop: 31040, Start Num: 37
Candidate Starts for Serendipity_31:
(Start: 37 @28785 has 342 MA's), (74, 28881), (98, 28959), (104, 28986), (143, 29085), (192, 29244), (237, 29424), (244, 29448), (269, 29538), (271, 29544), (283, 29580), (295, 29619), (298, 29628), (306, 29661), (316, 29700), (334, 29745), (351, 29796), (361, 29847), (363, 29856), (380, 29925), (410, 30000), (426, 30045), (429, 30060), (469, 30195), (492, 30249), (499, 30270), (509, 30303), (530, 30348), (551, 30402), (563, 30429), (583, 30486), (590, 30507), (614, 30549), (625, 30588),

(642, 30648), (728, 30888), (736, 30921), (737, 30924), (751, 30957), (756, 30963), (789, 31026),

Gene: Serpentine_0031 Start: 28766, Stop: 31021, Start Num: 37
Candidate Starts for Serpentine_0031:
(Start: 37 @28766 has 342 MA's), (74, 28862), (98, 28940), (104, 28967), (143, 29066), (192, 29225), (237, 29405), (244, 29429), (269, 29519), (271, 29525), (283, 29561), (295, 29600), (298, 29609), (306, 29642), (316, 29681), (334, 29726), (351, 29777), (361, 29828), (363, 29837), (380, 29906), (410, 29981), (426, 30026), (429, 30041), (469, 30176), (492, 30230), (499, 30251), (509, 30284), (530, 30329), (551, 30383), (563, 30410), (583, 30467), (590, 30488), (614, 30530), (625, 30569), (642, 30629), (728, 30869), (736, 30902), (737, 30905), (751, 30938), (756, 30944), (789, 31007),

Gene: SgtBeansprout_23 Start: 20414, Stop: 22900, Start Num: 24
Candidate Starts for SgtBeansprout_23:
(Start: 24 @20414 has 60 MA's), (44, 20462), (142, 20642), (143, 20645), (164, 20708), (169, 20720), (204, 20852), (214, 20891), (229, 20948), (235, 20972), (238, 20984), (252, 21032), (254, 21035), (267, 21068), (277, 21107), (288, 21140), (291, 21152), (294, 21161), (296, 21167), (311, 21233), (317, 21248), (352, 21359), (357, 21392), (377, 21476), (385, 21491), (406, 21551), (430, 21620), (462, 21740), (496, 21833), (541, 21947), (565, 22025), (568, 22031), (574, 22055), (594, 22118), (596, 22121), (603, 22133), (625, 22199), (627, 22205), (639, 22247), (644, 22268), (645, 22277), (657, 22310), (663, 22328), (685, 22397), (721, 22496), (722, 22502), (728, 22520), (742, 22574), (747, 22589), (766, 22616), (793, 22673),

Gene: Shadow1_25 Start: 19919, Stop: 22255, Start Num: 24
Candidate Starts for Shadow1_25:
(16, 19886), (Start: 24 @19919 has 60 MA's), (26, 19928), (47, 19976), (48, 19979), (103, 20120), (144, 20159), (181, 20255), (185, 20264), (204, 20354), (233, 20465), (262, 20567), (288, 20648), (296, 20678), (300, 20690), (306, 20717), (307, 20732), (317, 20756), (344, 20816), (364, 20888), (382, 20954), (416, 21044), (428, 21086), (436, 21107), (441, 21119), (448, 21137), (476, 21224), (502, 21287), (514, 21320), (548, 21392), (591, 21521), (630, 21614), (635, 21632), (721, 21878), (730, 21911), (774, 22016), (782, 22034), (822, 22121), (833, 22145), (843, 22187), (860, 22247),

Gene: ShadowBud_31 Start: 28786, Stop: 31041, Start Num: 37
Candidate Starts for ShadowBud_31:
(Start: 37 @28786 has 342 MA's), (74, 28882), (98, 28960), (104, 28987), (143, 29086), (192, 29245), (237, 29425), (244, 29449), (269, 29539), (271, 29545), (283, 29581), (295, 29620), (298, 29629), (306, 29662), (316, 29701), (334, 29746), (351, 29797), (361, 29848), (363, 29857), (380, 29926), (410, 30001), (426, 30046), (429, 30061), (469, 30196), (492, 30250), (499, 30271), (509, 30304), (530, 30349), (551, 30403), (563, 30430), (583, 30487), (590, 30508), (614, 30550), (625, 30589), (642, 30649), (728, 30889), (736, 30922), (737, 30925), (751, 30958), (756, 30964), (789, 31027),

Gene: Shaobing_27 Start: 20230, Stop: 22731, Start Num: 24
Candidate Starts for Shaobing_27:
(Start: 24 @20230 has 60 MA's), (44, 20278), (63, 20329), (89, 20401), (141, 20452), (144, 20470), (155, 20503), (164, 20524), (169, 20536), (188, 20590), (204, 20668), (214, 20707), (229, 20764), (238, 20800), (254, 20851), (267, 20881), (272, 20896), (277, 20920), (288, 20953), (294, 20974), (296, 20980), (306, 21019), (352, 21172), (357, 21205), (360, 21217), (374, 21280), (406, 21364), (459, 21547), (476, 21601), (496, 21643), (565, 21835), (568, 21841), (574, 21865), (594, 21928), (596, 21931), (614, 21967), (633, 22030), (645, 22087), (657, 22120), (663, 22138), (675, 22177), (687, 22216), (689, 22222), (709, 22279), (744, 22393), (775, 22447), (782, 22462), (796, 22492), (803, 22504), (823, 22561), (829, 22579), (837, 22609), (838, 22627), (858, 22708),

Gene: ShedlockHolmes_26 Start: 21295, Stop: 23643, Start Num: 24
Candidate Starts for ShedlockHolmes_26:

(Start: 24 @21295 has 60 MA's), (Start: 36 @21322 has 1 MA's), (48, 21355), (64, 21400), (172, 21619), (188, 21664), (196, 21700), (201, 21718), (221, 21796), (233, 21844), (273, 21976), (288, 22030), (292, 22045), (323, 22153), (364, 22270), (373, 22312), (374, 22318), (377, 22327), (382, 22336), (398, 22381), (408, 22417), (416, 22435), (428, 22477), (436, 22498), (445, 22519), (448, 22528), (476, 22615), (512, 22708), (514, 22711), (548, 22783), (620, 22966), (635, 23023), (668, 23122), (674, 23140), (692, 23194), (706, 23224), (709, 23239), (711, 23242), (716, 23251), (721, 23269), (722, 23275), (730, 23302), (735, 23323), (745, 23353), (770, 23398), (774, 23407), (833, 23536), (843, 23575), (844, 23578),

Gene: Sheila_31 Start: 28755, Stop: 31013, Start Num: 37
Candidate Starts for Sheila_31:
(Start: 37 @28755 has 342 MA's), (74, 28851), (98, 28929), (104, 28956), (143, 29058), (192, 29217), (237, 29397), (244, 29421), (271, 29517), (283, 29553), (295, 29592), (298, 29601), (306, 29634), (316, 29673), (334, 29718), (351, 29769), (361, 29820), (363, 29829), (380, 29898), (410, 29973), (426, 30018), (429, 30033), (469, 30168), (492, 30222), (499, 30243), (509, 30276), (530, 30321), (551, 30375), (563, 30402), (583, 30459), (590, 30480), (614, 30522), (625, 30561), (642, 30621), (728, 30861), (736, 30894), (737, 30897), (751, 30930), (756, 30936), (789, 30999),

Gene: Shelley_27 Start: 34795, Stop: 36816, Start Num: 6
Candidate Starts for Shelley_27:
(Start: 6 @34795 has 35 MA's), (14, 34843), (23, 34879), (26, 34897), (30, 34906), (44, 34936), (45, 34939), (84, 35050), (122, 35170), (257, 35647), (261, 35656), (294, 35755), (306, 35800), (327, 35866), (353, 35953), (380, 36088), (394, 36121), (455, 36346), (457, 36352), (509, 36511), (551, 36628), (553, 36634), (566, 36661), (578, 36694), (617, 36790),

Gene: Shenandoah_31 Start: 28589, Stop: 30814, Start Num: 28
Candidate Starts for Shenandoah_31:
(Start: 28 @28589 has 52 MA's), (Start: 40 @28604 has 1 MA's), (59, 28649), (79, 28706), (105, 28784), (135, 28853), (143, 28865), (158, 28907), (169, 28943), (179, 28970), (183, 28982), (190, 29009), (211, 29099), (229, 29171), (252, 29255), (286, 29363), (291, 29384), (316, 29477), (323, 29492), (360, 29621), (380, 29702), (410, 29777), (425, 29819), (426, 29825), (436, 29861), (469, 29975), (473, 29987), (492, 30029), (499, 30050), (521, 30104), (530, 30128), (583, 30260), (586, 30269), (614, 30323), (645, 30431), (656, 30458), (672, 30500), (701, 30572), (728, 30662), (737, 30698),

Gene: Shenyu_30 Start: 28934, Stop: 31201, Start Num: 37
Candidate Starts for Shenyu_30:
(Start: 37 @28934 has 342 MA's), (56, 28982), (67, 29012), (74, 29030), (85, 29066), (90, 29087), (97, 29105), (118, 29168), (151, 29273), (192, 29396), (194, 29402), (218, 29501), (245, 29603), (258, 29657), (295, 29777), (300, 29792), (306, 29819), (361, 30005), (368, 30041), (380, 30083), (410, 30158), (426, 30209), (436, 30245), (453, 30308), (461, 30332), (469, 30359), (521, 30488), (530, 30512), (583, 30647), (586, 30656), (590, 30668), (614, 30710), (625, 30749), (626, 30752), (641, 30806), (645, 30818), (658, 30848), (664, 30866), (689, 30932), (728, 31049), (789, 31187),

Gene: ShiVal_31 Start: 28759, Stop: 31014, Start Num: 37
Candidate Starts for ShiVal_31:
(Start: 37 @28759 has 342 MA's), (74, 28855), (98, 28933), (104, 28960), (143, 29059), (192, 29218), (237, 29398), (244, 29422), (269, 29512), (271, 29518), (283, 29554), (295, 29593), (298, 29602), (306, 29635), (316, 29674), (334, 29719), (351, 29770), (361, 29821), (363, 29830), (380, 29899), (410, 29974), (426, 30019), (429, 30034), (469, 30169), (492, 30223), (499, 30244), (509, 30277), (530, 30322), (551, 30376), (563, 30403), (583, 30460), (590, 30481), (614, 30523), (625, 30562), (642, 30622), (728, 30862), (736, 30895), (737, 30898), (751, 30931), (756, 30937), (789, 31000),

Gene: Shweta_20 Start: 17560, Stop: 20199, Start Num: 9
Candidate Starts for Shweta_20:
(7, 17548), (Start: 9 @17560 has 17 MA's), (13, 17572), (52, 17683), (Start: 61 @17707 has 1 MA's), (62, 17710), (65, 17719), (112, 17857), (125, 17899), (126, 17902), (157, 17992), (160, 18001), (161, 18004), (170, 18025), (174, 18037), (186, 18070), (200, 18124), (215, 18196), (224, 18226), (233, 18262), (247, 18325), (254, 18340), (262, 18367), (265, 18373), (288, 18448), (294, 18472), (296, 18478), (300, 18490), (307, 18532), (309, 18538), (342, 18637), (368, 18757), (372, 18775), (382, 18808), (392, 18835), (406, 18886), (468, 19096), (494, 19162), (507, 19198), (544, 19297), (548, 19309), (568, 19372), (627, 19534), (633, 19549), (645, 19600), (685, 19717), (700, 19762), (718, 19804), (728, 19840), (743, 19894), (768, 19942), (833, 20086), (845, 20143), (855, 20182), (859, 20191),

Gene: Sigman_31 Start: 28751, Stop: 31006, Start Num: 37
Candidate Starts for Sigman_31:
(Start: 37 @28751 has 342 MA's), (74, 28847), (98, 28925), (104, 28952), (143, 29051), (192, 29210), (237, 29390), (244, 29414), (269, 29504), (271, 29510), (283, 29546), (295, 29585), (298, 29594), (306, 29627), (316, 29666), (334, 29711), (351, 29762), (361, 29813), (363, 29822), (380, 29891), (410, 29966), (426, 30011), (429, 30026), (469, 30161), (492, 30215), (499, 30236), (509, 30269), (530, 30314), (551, 30368), (583, 30452), (590, 30473), (614, 30515), (625, 30554), (642, 30614), (728, 30854), (736, 30887), (737, 30890), (751, 30923), (756, 30929), (789, 30992),

Gene: SilverBell_31 Start: 28781, Stop: 31036, Start Num: 37
Candidate Starts for SilverBell_31:
(Start: 37 @28781 has 342 MA's), (74, 28877), (98, 28955), (104, 28982), (143, 29081), (192, 29240), (237, 29420), (244, 29444), (269, 29534), (271, 29540), (283, 29576), (295, 29615), (298, 29624), (306, 29657), (316, 29696), (334, 29741), (351, 29792), (361, 29843), (363, 29852), (380, 29921), (410, 29996), (426, 30041), (429, 30056), (469, 30191), (492, 30245), (499, 30266), (509, 30299), (530, 30344), (551, 30398), (563, 30425), (583, 30482), (590, 30503), (614, 30545), (625, 30584), (642, 30644), (728, 30884), (737, 30920), (751, 30953), (789, 31022),

Gene: Simielle_30 Start: 28454, Stop: 30709, Start Num: 37
Candidate Starts for Simielle_30:
(Start: 37 @28454 has 342 MA's), (74, 28550), (98, 28628), (104, 28655), (143, 28754), (192, 28913), (237, 29093), (244, 29117), (269, 29207), (271, 29213), (283, 29249), (295, 29288), (298, 29297), (306, 29330), (316, 29369), (334, 29414), (351, 29465), (361, 29516), (363, 29525), (380, 29594), (410, 29669), (426, 29714), (429, 29729), (469, 29864), (492, 29918), (499, 29939), (509, 29972), (530, 30017), (551, 30071), (563, 30098), (583, 30155), (590, 30176), (614, 30218), (625, 30257), (642, 30317), (728, 30557), (736, 30590), (737, 30593), (751, 30626), (756, 30632), (789, 30695),

Gene: SirBeauregard_31 Start: 28458, Stop: 30713, Start Num: 37
Candidate Starts for SirBeauregard_31:
(Start: 37 @28458 has 342 MA's), (74, 28554), (98, 28632), (104, 28659), (143, 28758), (192, 28917), (237, 29097), (244, 29121), (271, 29217), (283, 29253), (295, 29292), (298, 29301), (306, 29334), (316, 29373), (334, 29418), (351, 29469), (363, 29529), (380, 29598), (410, 29673), (426, 29718), (429, 29733), (469, 29868), (492, 29922), (499, 29943), (509, 29976), (530, 30021), (551, 30075), (563, 30102), (583, 30159), (590, 30180), (614, 30222), (625, 30261), (642, 30321), (728, 30561), (737, 30597), (751, 30630), (789, 30699),

Gene: SirJeffery_30 Start: 28980, Stop: 31256, Start Num: 37
Candidate Starts for SirJeffery_30:
(Start: 37 @28980 has 342 MA's), (Start: 40 @28986 has 1 MA's), (56, 29028), (63, 29049), (67, 29058), (85, 29112), (90, 29133), (97, 29151), (98, 29154), (113, 29196), (116, 29202), (118, 29214), (143, 29283), (151, 29319), (192, 29442), (218, 29547), (258, 29703), (266, 29730), (280, 29781),

(295, 29832), (300, 29847), (361, 30060), (368, 30096), (380, 30138), (410, 30213), (453, 30363), (461, 30387), (469, 30414), (499, 30489), (521, 30543), (583, 30702), (586, 30711), (590, 30723), (625, 30804), (626, 30807), (645, 30873), (664, 30921), (689, 30987), (728, 31104),

Gene: SkinnyPete_20 Start: 17557, Stop: 20202, Start Num: 9
Candidate Starts for SkinnyPete_20:
(7, 17545), (Start: 9 @17557 has 17 MA's), (13, 17569), (52, 17680), (Start: 61 @17704 has 1 MA's), (62, 17707), (65, 17716), (82, 17764), (157, 17989), (161, 18001), (170, 18022), (186, 18067), (200, 18121), (215, 18199), (224, 18229), (233, 18265), (238, 18286), (242, 18301), (254, 18343), (265, 18376), (288, 18451), (294, 18475), (296, 18481), (300, 18493), (307, 18535), (309, 18541), (342, 18640), (368, 18760), (372, 18778), (382, 18811), (392, 18838), (406, 18889), (468, 19099), (494, 19165), (507, 19201), (548, 19312), (568, 19375), (627, 19537), (633, 19552), (645, 19603), (685, 19720), (700, 19765), (718, 19807), (728, 19843), (743, 19897), (768, 19945), (833, 20089), (845, 20146), (855, 20185), (859, 20194),

Gene: Skippy_31 Start: 28749, Stop: 31004, Start Num: 37
Candidate Starts for Skippy_31:
(Start: 37 @28749 has 342 MA's), (74, 28845), (98, 28923), (104, 28950), (143, 29049), (192, 29208), (237, 29388), (244, 29412), (269, 29502), (271, 29508), (283, 29544), (295, 29583), (298, 29592), (306, 29625), (316, 29664), (334, 29709), (351, 29760), (361, 29811), (363, 29820), (380, 29889), (410, 29964), (426, 30009), (429, 30024), (469, 30159), (492, 30213), (499, 30234), (509, 30267), (530, 30312), (551, 30366), (563, 30393), (583, 30450), (590, 30471), (614, 30513), (625, 30552), (642, 30612), (728, 30852), (736, 30885), (737, 30888), (751, 30921), (756, 30927), (789, 30990),

Gene: Skysand_45 Start: 33680, Stop: 36238, Start Num: 78
Candidate Starts for Skysand_45:
(Start: 78 @33680 has 15 MA's), (164, 33929), (223, 34148), (224, 34151), (243, 34223), (258, 34280), (264, 34301), (296, 34388), (306, 34427), (420, 34799), (443, 34883), (574, 35261), (614, 35366), (620, 35384), (628, 35417), (634, 35438), (650, 35492), (659, 35516), (672, 35561), (686, 35597), (688, 35606), (696, 35630), (724, 35720), (756, 35819), (787, 35882), (803, 35915), (806, 35933), (808, 35936), (822, 35972), (830, 35996), (835, 36017), (853, 36107), (856, 36119),

Gene: Slarp_28 Start: 22283, Stop: 24592, Start Num: 66
Candidate Starts for Slarp_28:
(Start: 66 @22283 has 18 MA's), (106, 22394), (143, 22418), (185, 22535), (214, 22664), (228, 22715), (230, 22724), (238, 22757), (248, 22796), (252, 22805), (271, 22862), (274, 22871), (288, 22922), (291, 22934), (296, 22949), (298, 22955), (306, 22988), (319, 23036), (344, 23090), (364, 23162), (372, 23201), (375, 23213), (382, 23228), (400, 23273), (421, 23342), (449, 23423), (502, 23576), (543, 23675), (547, 23687), (574, 23792), (596, 23858), (607, 23873), (636, 23969), (685, 24122), (689, 24137), (692, 24143), (698, 24167), (712, 24206), (718, 24218), (744, 24314), (774, 24368), (783, 24389), (825, 24476), (834, 24506), (859, 24584),

Gene: Slatt_31 Start: 28774, Stop: 31029, Start Num: 37
Candidate Starts for Slatt_31:
(Start: 37 @28774 has 342 MA's), (74, 28870), (98, 28948), (104, 28975), (143, 29074), (192, 29233), (237, 29413), (244, 29437), (269, 29527), (271, 29533), (283, 29569), (295, 29608), (298, 29617), (306, 29650), (316, 29689), (334, 29734), (351, 29785), (361, 29836), (363, 29845), (380, 29914), (410, 29989), (426, 30034), (429, 30049), (469, 30184), (492, 30238), (499, 30259), (509, 30292), (530, 30337), (551, 30391), (563, 30418), (583, 30475), (590, 30496), (614, 30538), (625, 30577), (642, 30637), (728, 30877), (736, 30910), (737, 30913), (751, 30946), (756, 30952), (789, 31015),

Gene: SlippinJimmy_31 Start: 29378, Stop: 31603, Start Num: 28
Candidate Starts for SlippinJimmy_31:

(Start: 28 @29378 has 52 MA's), (Start: 40 @29393 has 1 MA's), (59, 29438), (79, 29495), (105, 29573), (135, 29642), (143, 29654), (158, 29696), (169, 29732), (179, 29759), (183, 29771), (190, 29798), (211, 29888), (229, 29960), (252, 30044), (286, 30152), (291, 30173), (316, 30266), (323, 30281), (360, 30410), (380, 30491), (410, 30566), (425, 30608), (426, 30614), (436, 30650), (453, 30713), (469, 30764), (473, 30776), (492, 30818), (499, 30839), (521, 30893), (530, 30917), (546, 30953), (583, 31049), (586, 31058), (614, 31112), (645, 31220), (656, 31247), (672, 31289), (701, 31361), (728, 31451), (737, 31487),

Gene: Snenia_21 Start: 19725, Stop: 22238, Start Num: 18
Candidate Starts for Snenia_21:
(Start: 18 @19725 has 19 MA's), (41, 19788), (68, 19860), (98, 19950), (101, 19956), (127, 20028), (150, 20115), (189, 20220), (192, 20232), (196, 20250), (204, 20289), (212, 20319), (228, 20376), (235, 20406), (237, 20412), (250, 20466), (253, 20472), (294, 20619), (295, 20622), (298, 20631), (303, 20649), (318, 20709), (321, 20718), (325, 20730), (343, 20781), (345, 20784), (386, 20949), (407, 21006), (438, 21090), (444, 21108), (447, 21117), (468, 21180), (514, 21300), (529, 21324), (538, 21345), (544, 21360), (550, 21378), (559, 21408), (589, 21498), (622, 21567), (630, 21600), (636, 21621), (648, 21657), (661, 21693), (675, 21738), (682, 21762), (685, 21768), (689, 21783), (694, 21801), (728, 21888), (733, 21912), (744, 21948), (747, 21954), (760, 21978), (797, 22053), (799, 22056), (832, 22143), (834, 22152), (835, 22158),

Gene: Soile_31 Start: 28481, Stop: 30736, Start Num: 37
Candidate Starts for Soile_31:
(Start: 37 @28481 has 342 MA's), (74, 28577), (98, 28655), (104, 28682), (143, 28781), (192, 28940), (237, 29120), (244, 29144), (269, 29234), (271, 29240), (283, 29276), (295, 29315), (298, 29324), (306, 29357), (316, 29396), (334, 29441), (351, 29492), (361, 29543), (363, 29552), (380, 29621), (410, 29696), (426, 29741), (429, 29756), (469, 29891), (492, 29945), (499, 29966), (509, 29999), (530, 30044), (551, 30098), (563, 30125), (583, 30182), (590, 30203), (614, 30245), (625, 30284), (642, 30344), (728, 30584), (736, 30617), (737, 30620), (751, 30653), (756, 30659), (789, 30722),

Gene: Solosis_30 Start: 28476, Stop: 30731, Start Num: 37
Candidate Starts for Solosis_30:
(Start: 37 @28476 has 342 MA's), (74, 28572), (98, 28650), (104, 28677), (143, 28776), (192, 28935), (237, 29115), (244, 29139), (269, 29229), (271, 29235), (283, 29271), (295, 29310), (298, 29319), (306, 29352), (316, 29391), (334, 29436), (351, 29487), (361, 29538), (363, 29547), (380, 29616), (410, 29691), (426, 29736), (429, 29751), (469, 29886), (492, 29940), (499, 29961), (509, 29994), (530, 30039), (551, 30093), (563, 30120), (583, 30177), (590, 30198), (614, 30240), (625, 30279), (642, 30339), (705, 30504), (728, 30579), (737, 30615), (751, 30648), (789, 30717),

Gene: Sophia_30 Start: 28476, Stop: 30731, Start Num: 37
Candidate Starts for Sophia_30:
(Start: 37 @28476 has 342 MA's), (74, 28572), (98, 28650), (104, 28677), (143, 28776), (192, 28935), (237, 29115), (244, 29139), (269, 29229), (271, 29235), (283, 29271), (295, 29310), (298, 29319), (306, 29352), (316, 29391), (334, 29436), (351, 29487), (361, 29538), (363, 29547), (380, 29616), (410, 29691), (426, 29736), (429, 29751), (469, 29886), (492, 29940), (499, 29961), (509, 29994), (530, 30039), (551, 30093), (563, 30120), (583, 30177), (590, 30198), (614, 30240), (625, 30279), (642, 30339), (728, 30579), (737, 30615), (751, 30648), (789, 30717),

Gene: SororFago_31 Start: 21994, Stop: 24447, Start Num: 20
Candidate Starts for SororFago_31:
(Start: 20 @21994 has 4 MA's), (99, 22210), (124, 22267), (134, 22288), (190, 22453), (226, 22588), (295, 22843), (296, 22846), (313, 22909), (320, 22927), (329, 22954), (333, 22966), (349, 23008), (350, 23011), (424, 23245), (432, 23275), (435, 23284), (478, 23416), (506, 23479), (538, 23545), (539, 23548), (568, 23647), (596, 23725), (619, 23764), (630, 23809), (649, 23869), (669, 23935),

(676, 23950), (709, 24040), (712, 24046), (733, 24121), (764, 24190), (833, 24355), (836, 24373), (847, 24400),

Gene: Soto_31 Start: 28769, Stop: 31024, Start Num: 37
Candidate Starts for Soto_31:
(Start: 37 @28769 has 342 MA's), (74, 28865), (98, 28943), (104, 28970), (143, 29069), (192, 29228), (237, 29408), (244, 29432), (271, 29528), (283, 29564), (295, 29603), (298, 29612), (306, 29645), (316, 29684), (334, 29729), (351, 29780), (361, 29831), (363, 29840), (380, 29909), (410, 29984), (426, 30029), (429, 30044), (469, 30179), (492, 30233), (499, 30254), (509, 30287), (530, 30332), (551, 30386), (563, 30413), (583, 30470), (590, 30491), (614, 30533), (625, 30572), (642, 30632), (728, 30872), (737, 30908), (751, 30941), (789, 31010),

Gene: Spartan300_31 Start: 28755, Stop: 31010, Start Num: 37
Candidate Starts for Spartan300_31:
(Start: 37 @28755 has 342 MA's), (74, 28851), (98, 28929), (104, 28956), (143, 29055), (192, 29214), (237, 29394), (244, 29418), (269, 29508), (271, 29514), (283, 29550), (295, 29589), (298, 29598), (306, 29631), (316, 29670), (334, 29715), (351, 29766), (361, 29817), (363, 29826), (380, 29895), (410, 29970), (426, 30015), (429, 30030), (469, 30165), (492, 30219), (499, 30240), (509, 30273), (530, 30318), (551, 30372), (583, 30456), (590, 30477), (614, 30519), (625, 30558), (642, 30618), (728, 30858), (736, 30891), (737, 30894), (751, 30927), (789, 30996),

Gene: Squid_31 Start: 28467, Stop: 30722, Start Num: 37
Candidate Starts for Squid_31:
(Start: 37 @28467 has 342 MA's), (74, 28563), (98, 28641), (104, 28668), (143, 28767), (192, 28926), (237, 29106), (244, 29130), (269, 29220), (271, 29226), (283, 29262), (295, 29301), (298, 29310), (306, 29343), (316, 29382), (334, 29427), (351, 29478), (361, 29529), (363, 29538), (380, 29607), (410, 29682), (426, 29727), (429, 29742), (469, 29877), (492, 29931), (499, 29952), (509, 29985), (530, 30030), (551, 30084), (563, 30111), (583, 30168), (590, 30189), (614, 30231), (625, 30270), (642, 30330), (728, 30570), (736, 30603), (737, 30606), (751, 30639), (756, 30645), (789, 30708),

Gene: Squiggle_31 Start: 28479, Stop: 30734, Start Num: 37
Candidate Starts for Squiggle_31:
(Start: 37 @28479 has 342 MA's), (74, 28575), (98, 28653), (104, 28680), (143, 28779), (192, 28938), (237, 29118), (244, 29142), (269, 29232), (271, 29238), (283, 29274), (295, 29313), (298, 29322), (306, 29355), (316, 29394), (334, 29439), (351, 29490), (361, 29541), (363, 29550), (380, 29619), (410, 29694), (426, 29739), (429, 29754), (469, 29889), (492, 29943), (499, 29964), (509, 29997), (530, 30042), (551, 30096), (563, 30123), (583, 30180), (590, 30201), (614, 30243), (625, 30282), (642, 30342), (728, 30582), (737, 30618), (751, 30651), (789, 30720),

Gene: Squirty_19 Start: 17305, Stop: 19920, Start Num: 8
Candidate Starts for Squirty_19:
(Start: 8 @17305 has 1 MA's), (13, 17326), (17, 17347), (27, 17386), (58, 17455), (Start: 61 @17464 has 1 MA's), (62, 17467), (69, 17485), (82, 17518), (88, 17533), (133, 17635), (150, 17692), (160, 17716), (183, 17773), (202, 17848), (216, 17920), (233, 17983), (237, 17998), (243, 18022), (247, 18046), (254, 18061), (255, 18070), (265, 18097), (267, 18103), (281, 18148), (288, 18172), (294, 18193), (296, 18199), (299, 18208), (305, 18235), (327, 18301), (331, 18313), (337, 18346), (342, 18358), (368, 18478), (372, 18496), (382, 18529), (406, 18607), (444, 18712), (453, 18754), (528, 18973), (542, 19012), (543, 19015), (548, 19030), (568, 19093), (584, 19141), (627, 19255), (636, 19285), (644, 19312), (645, 19321), (685, 19438), (700, 19483), (718, 19525), (735, 19591), (743, 19615), (768, 19663), (772, 19669), (776, 19675), (782, 19690), (822, 19774), (834, 19813), (855, 19903), (859, 19912),

Gene: StarStruck_44 Start: 33201, Stop: 35759, Start Num: 78

Candidate Starts for StarStruck_44:
(Start: 78 @33201 has 15 MA's), (81, 33210), (120, 33330), (223, 33669), (224, 33672), (238, 33729), (287, 33882), (307, 33963), (339, 34053), (420, 34320), (443, 34404), (537, 34674), (574, 34782), (614, 34887), (620, 34905), (628, 34938), (632, 34947), (659, 35037), (672, 35082), (685, 35115), (686, 35118), (696, 35151), (732, 35271), (740, 35295), (741, 35298), (754, 35337), (756, 35340), (803, 35436), (834, 35532), (835, 35538), (848, 35610), (856, 35640), (861, 35667), (862, 35712), (863, 35730),

Gene: Sticker17_27 Start: 35319, Stop: 37343, Start Num: 6
Candidate Starts for Sticker17_27:
(Start: 6 @35319 has 35 MA's), (14, 35367), (23, 35403), (26, 35421), (30, 35430), (44, 35460), (45, 35463), (84, 35574), (122, 35694), (257, 36171), (261, 36180), (294, 36279), (306, 36324), (327, 36390), (353, 36477), (380, 36612), (394, 36645), (479, 36957), (506, 37023), (509, 37035), (541, 37116), (551, 37152), (553, 37158), (566, 37185), (578, 37218),

Gene: Stinger_26 Start: 27542, Stop: 29839, Start Num: 37
Candidate Starts for Stinger_26:
(Start: 37 @27542 has 342 MA's), (74, 27641), (79, 27659), (143, 27845), (155, 27890), (167, 27926), (189, 27992), (192, 28004), (218, 28109), (228, 28148), (229, 28154), (244, 28208), (249, 28235), (265, 28289), (266, 28292), (283, 28355), (296, 28397), (300, 28409), (306, 28436), (346, 28556), (360, 28619), (368, 28658), (404, 28772), (410, 28787), (417, 28808), (426, 28838), (428, 28850), (436, 28874), (440, 28886), (453, 28937), (457, 28940), (460, 28958), (468, 28982), (469, 28988), (492, 29042), (499, 29063), (509, 29096), (521, 29117), (530, 29141), (583, 29276), (585, 29282), (586, 29285), (590, 29297), (626, 29381), (664, 29495), (672, 29516), (682, 29540), (703, 29603), (713, 29639), (728, 29687), (736, 29720), (737, 29723), (789, 29825), (790, 29828),

Gene: StinkyVeggy_32 Start: 29124, Stop: 31391, Start Num: 37
Candidate Starts for StinkyVeggy_32:
(Start: 37 @29124 has 342 MA's), (56, 29172), (67, 29202), (74, 29220), (85, 29256), (90, 29277), (97, 29295), (118, 29358), (151, 29463), (192, 29586), (194, 29592), (218, 29691), (245, 29793), (258, 29847), (295, 29967), (300, 29982), (306, 30009), (361, 30195), (368, 30231), (380, 30273), (410, 30348), (426, 30399), (436, 30435), (453, 30498), (461, 30522), (469, 30549), (521, 30678), (530, 30702), (583, 30837), (586, 30846), (590, 30858), (614, 30900), (625, 30939), (626, 30942), (641, 30996), (645, 31008), (658, 31038), (664, 31056), (689, 31122), (728, 31239), (789, 31377),

Gene: Stormer_28 Start: 24350, Stop: 26353, Start Num: 5
Candidate Starts for Stormer_28:
(Start: 5 @24350 has 38 MA's), (29, 24464), (34, 24473), (39, 24482), (41, 24485), (45, 24494), (73, 24563), (136, 24749), (192, 24926), (244, 25133), (252, 25163), (264, 25199), (269, 25214), (283, 25253), (298, 25301), (300, 25307), (306, 25334), (327, 25400), (353, 25487), (380, 25622), (394, 25655), (397, 25667), (433, 25796), (509, 26048), (551, 26165), (553, 26171), (578, 26231), (617, 26327),

Gene: StressBall_21 Start: 18926, Stop: 21559, Start Num: 9
Candidate Starts for StressBall_21:
(Start: 9 @18926 has 17 MA's), (11, 18935), (62, 19079), (157, 19352), (161, 19364), (170, 19385), (180, 19409), (200, 19484), (215, 19556), (224, 19586), (233, 19622), (247, 19685), (254, 19700), (262, 19727), (265, 19733), (288, 19808), (294, 19832), (296, 19838), (300, 19850), (307, 19892), (309, 19898), (337, 19985), (345, 20006), (352, 20030), (365, 20096), (368, 20117), (372, 20135), (382, 20168), (390, 20192), (392, 20195), (406, 20246), (444, 20351), (453, 20393), (507, 20558), (543, 20654), (568, 20732), (573, 20744), (610, 20834), (627, 20894), (630, 20903), (644, 20951), (645, 20960), (685, 21077), (700, 21122), (718, 21164), (735, 21230), (743, 21254), (768, 21302), (772, 21308), (776, 21314), (822, 21413), (825, 21422), (834, 21452), (855, 21542), (859, 21551),

Gene: Strobilo_23 Start: 18661, Stop: 21000, Start Num: 24
Candidate Starts for Strobilo_23:
(Start: 24 @18661 has 60 MA's), (89, 18832), (93, 18850), (142, 18901), (185, 19018), (193, 19051), (227, 19180), (229, 19189), (233, 19204), (236, 19216), (238, 19225), (252, 19273), (282, 19369), (288, 19387), (294, 19408), (306, 19453), (344, 19555), (364, 19627), (373, 19669), (377, 19684), (406, 19771), (416, 19792), (428, 19834), (436, 19855), (476, 19972), (478, 19981), (497, 20017), (514, 20068), (518, 20071), (544, 20125), (548, 20137), (554, 20161), (589, 20257), (596, 20275), (613, 20302), (630, 20359), (692, 20548), (706, 20578), (722, 20629), (728, 20647), (735, 20677), (757, 20731), (774, 20761), (783, 20782), (839, 20914),

Gene: Struggle_30 Start: 28317, Stop: 30572, Start Num: 37
Candidate Starts for Struggle_30:
(Start: 37 @28317 has 342 MA's), (74, 28413), (98, 28491), (104, 28518), (143, 28617), (192, 28776), (237, 28956), (244, 28980), (271, 29076), (283, 29112), (295, 29151), (298, 29160), (306, 29193), (316, 29232), (334, 29277), (351, 29328), (361, 29379), (363, 29388), (380, 29457), (410, 29532), (426, 29577), (429, 29592), (469, 29727), (492, 29781), (499, 29802), (509, 29835), (530, 29880), (551, 29934), (563, 29961), (583, 30018), (590, 30039), (614, 30081), (625, 30120), (642, 30180), (728, 30420), (737, 30456), (751, 30489), (789, 30558),

Gene: Suffolk_31 Start: 28763, Stop: 31021, Start Num: 37
Candidate Starts for Suffolk_31:
(Start: 37 @28763 has 342 MA's), (74, 28859), (98, 28937), (104, 28964), (143, 29066), (192, 29225), (237, 29405), (244, 29429), (271, 29525), (283, 29561), (295, 29600), (298, 29609), (306, 29642), (316, 29681), (334, 29726), (351, 29777), (361, 29828), (363, 29837), (380, 29906), (410, 29981), (426, 30026), (429, 30041), (469, 30176), (492, 30230), (499, 30251), (509, 30284), (530, 30329), (551, 30383), (583, 30467), (590, 30488), (614, 30530), (625, 30569), (642, 30629), (728, 30869), (736, 30902), (737, 30905), (751, 30938), (756, 30944), (789, 31007),

Gene: Suigeneris_30 Start: 28983, Stop: 31259, Start Num: 37
Candidate Starts for Suigeneris_30:
(Start: 37 @28983 has 342 MA's), (Start: 40 @28989 has 1 MA's), (56, 29031), (63, 29052), (67, 29061), (85, 29115), (90, 29136), (97, 29154), (98, 29157), (113, 29199), (116, 29205), (118, 29217), (143, 29286), (151, 29322), (192, 29445), (218, 29550), (258, 29706), (266, 29733), (280, 29784), (295, 29835), (300, 29850), (361, 30063), (368, 30099), (380, 30141), (410, 30216), (453, 30366), (461, 30390), (469, 30417), (499, 30492), (521, 30546), (583, 30705), (586, 30714), (590, 30726), (625, 30807), (626, 30810), (645, 30876), (664, 30924), (689, 30990), (728, 31107),

Gene: Sunflower1121_25 Start: 19931, Stop: 22267, Start Num: 24
Candidate Starts for Sunflower1121_25:
(16, 19898), (Start: 24 @19931 has 60 MA's), (26, 19940), (47, 19988), (48, 19991), (103, 20132), (144, 20171), (181, 20267), (204, 20366), (233, 20477), (262, 20579), (288, 20660), (296, 20690), (300, 20702), (306, 20729), (307, 20744), (317, 20768), (344, 20828), (364, 20900), (382, 20966), (416, 21056), (428, 21098), (436, 21119), (448, 21149), (476, 21236), (502, 21299), (514, 21332), (548, 21404), (591, 21533), (630, 21626), (635, 21644), (721, 21890), (730, 21923), (774, 22028), (782, 22046), (822, 22133), (833, 22157), (843, 22199), (860, 22259),

Gene: SuperSulley_44 Start: 33387, Stop: 35945, Start Num: 78
Candidate Starts for SuperSulley_44:
(Start: 28 @33258 has 52 MA's), (Start: 78 @33387 has 15 MA's), (120, 33516), (223, 33855), (224, 33858), (238, 33915), (287, 34068), (306, 34134), (307, 34149), (443, 34590), (574, 34968), (614, 35073), (620, 35091), (628, 35124), (634, 35145), (650, 35199), (659, 35223), (686, 35304), (693, 35331), (696, 35337), (724, 35427), (754, 35523), (756, 35526), (787, 35589), (803, 35622), (806,

35640), (808, 35643), (822, 35679), (830, 35703), (835, 35724), (853, 35814), (856, 35826), (864, 35937),

Gene: Surely_31 Start: 28769, Stop: 31024, Start Num: 37
Candidate Starts for Surely_31:
(Start: 37 @28769 has 342 MA's), (74, 28865), (98, 28943), (104, 28970), (143, 29069), (192, 29228), (237, 29408), (244, 29432), (269, 29522), (271, 29528), (283, 29564), (295, 29603), (298, 29612), (306, 29645), (316, 29684), (334, 29729), (351, 29780), (361, 29831), (363, 29840), (380, 29909), (410, 29984), (426, 30029), (429, 30044), (469, 30179), (492, 30233), (499, 30254), (509, 30287), (530, 30332), (551, 30386), (563, 30413), (583, 30470), (590, 30491), (614, 30533), (625, 30572), (642, 30632), (728, 30872), (736, 30905), (737, 30908), (751, 30941), (756, 30947), (789, 31010),

Gene: SussRoloMann_25 Start: 20607, Stop: 23117, Start Num: 19
Candidate Starts for SussRoloMann_25:
(Start: 19 @20607 has 14 MA's), (74, 20739), (77, 20754), (92, 20799), (102, 20817), (165, 20982), (184, 21036), (186, 21045), (203, 21123), (204, 21129), (247, 21294), (254, 21309), (265, 21345), (288, 21420), (291, 21432), (294, 21441), (296, 21447), (300, 21459), (303, 21471), (306, 21486), (308, 21504), (309, 21507), (323, 21543), (338, 21597), (369, 21720), (384, 21774), (391, 21795), (396, 21804), (423, 21906), (441, 21966), (453, 22014), (454, 22026), (466, 22071), (500, 22158), (513, 22197), (541, 22266), (545, 22278), (549, 22290), (649, 22578), (659, 22608), (683, 22689), (690, 22710), (697, 22737), (705, 22761), (752, 22926), (771, 22971), (811, 23070), (826, 23109),

Gene: SwainyDoc_31 Start: 28611, Stop: 30836, Start Num: 28
Candidate Starts for SwainyDoc_31:
(Start: 28 @28611 has 52 MA's), (Start: 40 @28626 has 1 MA's), (59, 28671), (79, 28728), (105, 28806), (135, 28875), (143, 28887), (158, 28929), (169, 28965), (179, 28992), (183, 29004), (190, 29031), (211, 29121), (229, 29193), (252, 29277), (286, 29385), (291, 29406), (316, 29499), (323, 29514), (360, 29643), (380, 29724), (410, 29799), (425, 29841), (426, 29847), (453, 29946), (469, 29997), (473, 30009), (492, 30051), (499, 30072), (521, 30126), (530, 30150), (546, 30186), (583, 30282), (586, 30291), (614, 30345), (645, 30453), (656, 30480), (672, 30522), (701, 30594), (728, 30684), (737, 30720),

Gene: Swiphy_31 Start: 28764, Stop: 31019, Start Num: 37
Candidate Starts for Swiphy_31:
(Start: 37 @28764 has 342 MA's), (74, 28860), (98, 28938), (104, 28965), (143, 29064), (192, 29223), (237, 29403), (244, 29427), (269, 29517), (271, 29523), (283, 29559), (295, 29598), (298, 29607), (306, 29640), (316, 29679), (334, 29724), (351, 29775), (361, 29826), (363, 29835), (380, 29904), (410, 29979), (426, 30024), (429, 30039), (469, 30174), (492, 30228), (499, 30249), (509, 30282), (530, 30327), (551, 30381), (563, 30408), (583, 30465), (590, 30486), (614, 30528), (625, 30567), (642, 30627), (728, 30867), (736, 30900), (737, 30903), (751, 30936), (756, 30942), (789, 31005),

Gene: Swish_31 Start: 28752, Stop: 31007, Start Num: 37
Candidate Starts for Swish_31:
(Start: 37 @28752 has 342 MA's), (74, 28848), (98, 28926), (104, 28953), (143, 29052), (192, 29211), (237, 29391), (244, 29415), (269, 29505), (271, 29511), (283, 29547), (295, 29586), (298, 29595), (306, 29628), (316, 29667), (334, 29712), (351, 29763), (361, 29814), (363, 29823), (380, 29892), (410, 29967), (426, 30012), (429, 30027), (469, 30162), (492, 30216), (499, 30237), (509, 30270), (530, 30315), (551, 30369), (583, 30453), (590, 30474), (614, 30516), (625, 30555), (642, 30615), (728, 30855), (736, 30888), (737, 30891), (751, 30924), (756, 30930), (789, 30993),

Gene: SynergyX_31 Start: 28614, Stop: 30842, Start Num: 28
Candidate Starts for SynergyX_31:

(Start: 28 @28614 has 52 MA's), (Start: 40 @28629 has 1 MA's), (59, 28674), (79, 28731), (105, 28809), (135, 28878), (143, 28890), (158, 28932), (169, 28968), (179, 28995), (183, 29007), (190, 29034), (211, 29124), (229, 29196), (252, 29280), (286, 29388), (291, 29409), (316, 29502), (323, 29517), (360, 29646), (380, 29727), (410, 29802), (425, 29844), (426, 29850), (436, 29886), (469, 30000), (473, 30012), (492, 30054), (499, 30075), (521, 30129), (530, 30153), (546, 30189), (583, 30288), (586, 30297), (614, 30351), (645, 30459), (656, 30486), (672, 30528), (701, 30600), (728, 30690), (737, 30726),

Gene: Syra333_26 Start: 20027, Stop: 22357, Start Num: 24
Candidate Starts for Syra333_26:
(Start: 24 @20027 has 60 MA's), (48, 20087), (93, 20216), (103, 20228), (144, 20267), (181, 20363), (185, 20372), (204, 20462), (214, 20501), (227, 20549), (233, 20573), (235, 20582), (262, 20675), (268, 20690), (288, 20756), (296, 20786), (300, 20798), (306, 20825), (307, 20840), (317, 20864), (344, 20924), (357, 20969), (364, 20996), (372, 21035), (377, 21053), (382, 21062), (406, 21131), (408, 21134), (416, 21152), (428, 21194), (436, 21215), (445, 21236), (448, 21245), (459, 21281), (476, 21332), (514, 21428), (548, 21497), (568, 21557), (591, 21626), (596, 21635), (620, 21680), (630, 21719), (635, 21737), (644, 21767), (692, 21908), (709, 21953), (721, 21983), (728, 22007), (730, 22016), (735, 22037), (745, 22067), (833, 22250), (841, 22277), (843, 22289), (860, 22349),

Gene: TBond007_26 Start: 21085, Stop: 23436, Start Num: 24
Candidate Starts for TBond007_26:
(Start: 24 @21085 has 60 MA's), (Start: 36 @21112 has 1 MA's), (48, 21145), (86, 21250), (172, 21409), (188, 21454), (196, 21490), (201, 21508), (221, 21586), (233, 21634), (273, 21766), (288, 21820), (292, 21835), (323, 21943), (364, 22060), (373, 22102), (374, 22108), (377, 22117), (382, 22126), (408, 22207), (416, 22225), (428, 22267), (436, 22288), (445, 22309), (448, 22318), (476, 22405), (512, 22498), (514, 22501), (548, 22573), (594, 22708), (596, 22711), (620, 22756), (630, 22795), (635, 22813), (668, 22912), (674, 22930), (692, 22984), (706, 23014), (711, 23032), (721, 23059), (722, 23065), (735, 23113), (770, 23188), (774, 23197), (783, 23218), (788, 23227), (833, 23326), (843, 23368),

Gene: TClif_26 Start: 20078, Stop: 22420, Start Num: 24
Candidate Starts for TClif_26:
(Start: 24 @20078 has 60 MA's), (44, 20126), (63, 20177), (89, 20249), (95, 20270), (181, 20417), (185, 20426), (195, 20471), (233, 20627), (235, 20636), (262, 20729), (268, 20744), (282, 20792), (288, 20810), (291, 20825), (296, 20840), (306, 20879), (307, 20894), (317, 20918), (344, 20978), (360, 21035), (364, 21050), (377, 21107), (406, 21188), (416, 21209), (428, 21251), (436, 21272), (445, 21293), (472, 21377), (476, 21389), (502, 21452), (514, 21485), (529, 21509), (539, 21533), (548, 21557), (568, 21617), (584, 21665), (620, 21740), (630, 21779), (635, 21797), (674, 21914), (692, 21968), (721, 22043), (735, 22097), (770, 22172), (783, 22202), (804, 22247), (860, 22412),

Gene: TM4_23 Start: 18727, Stop: 21081, Start Num: 24
Candidate Starts for TM4_23:
(Start: 24 @18727 has 60 MA's), (76, 18859), (185, 19084), (195, 19129), (233, 19270), (238, 19291), (252, 19339), (294, 19474), (300, 19492), (306, 19519), (307, 19534), (344, 19621), (364, 19693), (373, 19735), (374, 19741), (380, 19756), (382, 19759), (398, 19795), (436, 19912), (445, 19933), (508, 20104), (514, 20125), (552, 20221), (559, 20242), (570, 20275), (596, 20350), (600, 20356), (620, 20395), (624, 20407), (630, 20434), (635, 20452), (672, 20566), (682, 20596), (685, 20602), (703, 20647), (709, 20668), (727, 20719), (744, 20782), (777, 20848), (789, 20869), (802, 20890), (816, 20926), (860, 21073),

Gene: TPA4_24 Start: 21615, Stop: 23492, Start Num: 24
Candidate Starts for TPA4_24:

(Start: 24 @21615 has 60 MA's), (55, 21693), (Start: 61 @21708 has 1 MA's), (76, 21753), (88, 21783), (123, 21870), (136, 21912), (177, 22029), (225, 22218), (229, 22236), (254, 22320), (260, 22350), (271, 22380), (275, 22398), (288, 22428), (300, 22467), (312, 22524), (315, 22533), (363, 22689), (392, 22788), (458, 22992), (486, 23073), (490, 23082), (515, 23157), (522, 23169), (526, 23175), (530, 23196), (532, 23202), (535, 23211), (551, 23274), (554, 23286), (569, 23325), (575, 23346), (584, 23376), (594, 23403), (603, 23412), (622, 23466), (623, 23469), (625, 23484),

Gene: TallGrassMM_31 Start: 28391, Stop: 30646, Start Num: 37
Candidate Starts for TallGrassMM_31:
(Start: 37 @28391 has 342 MA's), (74, 28487), (98, 28565), (104, 28592), (143, 28691), (192, 28850), (237, 29030), (244, 29054), (269, 29144), (271, 29150), (283, 29186), (295, 29225), (298, 29234), (306, 29267), (316, 29306), (334, 29351), (351, 29402), (361, 29453), (363, 29462), (380, 29531), (410, 29606), (426, 29651), (429, 29666), (469, 29801), (492, 29855), (499, 29876), (509, 29909), (530, 29954), (551, 30008), (563, 30035), (583, 30092), (590, 30113), (614, 30155), (625, 30194), (642, 30254), (728, 30494), (737, 30530), (751, 30563), (789, 30632),

Gene: Taraxa_30 Start: 27976, Stop: 30231, Start Num: 37
Candidate Starts for Taraxa_30:
(Start: 37 @27976 has 342 MA's), (74, 28072), (98, 28150), (104, 28177), (143, 28276), (192, 28435), (237, 28615), (244, 28639), (271, 28735), (283, 28771), (295, 28810), (298, 28819), (306, 28852), (316, 28891), (334, 28936), (351, 28987), (363, 29047), (380, 29116), (410, 29191), (426, 29236), (429, 29251), (469, 29386), (492, 29440), (499, 29461), (509, 29494), (530, 29539), (551, 29593), (563, 29620), (583, 29677), (590, 29698), (614, 29740), (625, 29779), (642, 29839), (728, 30079), (737, 30115), (751, 30148), (789, 30217),

Gene: Teal_27 Start: 35787, Stop: 37811, Start Num: 6
Candidate Starts for Teal_27:
(Start: 6 @35787 has 35 MA's), (14, 35835), (23, 35871), (26, 35889), (30, 35898), (44, 35928), (45, 35931), (84, 36042), (122, 36162), (257, 36639), (261, 36648), (294, 36747), (306, 36792), (327, 36858), (353, 36945), (380, 37080), (394, 37113), (479, 37425), (506, 37491), (509, 37503), (541, 37584), (551, 37620), (553, 37626), (566, 37653), (578, 37686),

Gene: Teejan_23 Start: 20414, Stop: 22900, Start Num: 24
Candidate Starts for Teejan_23:
(Start: 24 @20414 has 60 MA's), (44, 20462), (142, 20642), (143, 20645), (164, 20708), (169, 20720), (204, 20852), (214, 20891), (229, 20948), (235, 20972), (238, 20984), (252, 21032), (254, 21035), (267, 21068), (277, 21107), (288, 21140), (291, 21152), (294, 21161), (296, 21167), (311, 21233), (317, 21248), (352, 21359), (357, 21392), (377, 21476), (385, 21491), (406, 21551), (430, 21620), (462, 21740), (496, 21833), (541, 21947), (565, 22025), (568, 22031), (574, 22055), (594, 22118), (596, 22121), (603, 22133), (625, 22199), (627, 22205), (639, 22247), (644, 22268), (645, 22277), (657, 22310), (663, 22328), (685, 22397), (721, 22496), (722, 22502), (728, 22520), (742, 22574), (747, 22589), (766, 22616), (793, 22673),

Gene: Telesworld_30 Start: 28463, Stop: 30718, Start Num: 37
Candidate Starts for Telesworld_30:
(Start: 37 @28463 has 342 MA's), (74, 28559), (98, 28637), (104, 28664), (143, 28763), (192, 28922), (237, 29102), (244, 29126), (269, 29216), (271, 29222), (283, 29258), (295, 29297), (298, 29306), (306, 29339), (316, 29378), (334, 29423), (351, 29474), (361, 29525), (363, 29534), (380, 29603), (410, 29678), (426, 29723), (429, 29738), (469, 29873), (492, 29927), (499, 29948), (509, 29981), (530, 30026), (551, 30080), (563, 30107), (583, 30164), (590, 30185), (614, 30227), (625, 30266), (642, 30326), (728, 30566), (736, 30599), (737, 30602), (751, 30635), (756, 30641), (789, 30704),

Gene: Thonko_29 Start: 27164, Stop: 29614, Start Num: 37

Candidate Starts for Thonko_29:
(Start: 37 @27164 has 342 MA's), (63, 27230), (74, 27257), (80, 27278), (159, 27530), (190, 27626), (192, 27635), (210, 27713), (213, 27728), (229, 27785), (236, 27812), (247, 27857), (249, 27863), (259, 27896), (282, 27956), (288, 27977), (295, 28001), (309, 28064), (341, 28151), (351, 28178), (374, 28292), (424, 28439), (427, 28457), (487, 28640), (493, 28652), (518, 28721), (525, 28733), (540, 28778), (597, 28937), (603, 28940), (614, 28970), (658, 29117), (666, 29138), (681, 29183), (689, 29210), (738, 29369), (746, 29387), (780, 29444), (798, 29483), (814, 29525), (818, 29537), (825, 29558), (834, 29588), (835, 29594),

Gene: Thora_31 Start: 28768, Stop: 31023, Start Num: 37
Candidate Starts for Thora_31:
(Start: 37 @28768 has 342 MA's), (74, 28864), (98, 28942), (104, 28969), (143, 29068), (192, 29227), (237, 29407), (244, 29431), (269, 29521), (271, 29527), (283, 29563), (295, 29602), (298, 29611), (306, 29644), (316, 29683), (334, 29728), (351, 29779), (361, 29830), (363, 29839), (380, 29908), (410, 29983), (426, 30028), (429, 30043), (469, 30178), (492, 30232), (499, 30253), (509, 30286), (530, 30331), (551, 30385), (583, 30469), (590, 30490), (614, 30532), (625, 30571), (642, 30631), (728, 30871), (736, 30904), (737, 30907), (751, 30940), (756, 30946), (789, 31009),

Gene: ThreeOh3D2_31 Start: 28766, Stop: 31021, Start Num: 37
Candidate Starts for ThreeOh3D2_31:
(Start: 37 @28766 has 342 MA's), (74, 28862), (98, 28940), (104, 28967), (143, 29066), (192, 29225), (237, 29405), (244, 29429), (269, 29519), (271, 29525), (283, 29561), (295, 29600), (298, 29609), (306, 29642), (316, 29681), (334, 29726), (351, 29777), (361, 29828), (363, 29837), (380, 29906), (410, 29981), (426, 30026), (429, 30041), (469, 30176), (492, 30230), (499, 30251), (509, 30284), (530, 30329), (551, 30383), (563, 30410), (583, 30467), (590, 30488), (614, 30530), (625, 30569), (642, 30629), (728, 30869), (736, 30902), (737, 30905), (751, 30938), (756, 30944), (789, 31007),

Gene: Thunderbird_30 Start: 28472, Stop: 30727, Start Num: 37
Candidate Starts for Thunderbird_30:
(Start: 37 @28472 has 342 MA's), (74, 28568), (98, 28646), (104, 28673), (143, 28772), (192, 28931), (237, 29111), (244, 29135), (269, 29225), (271, 29231), (283, 29267), (295, 29306), (298, 29315), (306, 29348), (316, 29387), (334, 29432), (351, 29483), (361, 29534), (363, 29543), (380, 29612), (410, 29687), (426, 29732), (429, 29747), (469, 29882), (492, 29936), (499, 29957), (509, 29990), (530, 30035), (551, 30089), (563, 30116), (583, 30173), (590, 30194), (614, 30236), (625, 30275), (642, 30335), (728, 30575), (737, 30611), (751, 30644), (789, 30713),

Gene: Tierra_26 Start: 20767, Stop: 23103, Start Num: 24
Candidate Starts for Tierra_26:
(Start: 24 @20767 has 60 MA's), (44, 20815), (47, 20824), (89, 20938), (93, 20956), (144, 21007), (181, 21103), (185, 21112), (204, 21202), (208, 21214), (233, 21313), (235, 21322), (262, 21415), (288, 21496), (296, 21526), (300, 21538), (306, 21565), (307, 21580), (317, 21604), (344, 21664), (357, 21709), (364, 21736), (372, 21775), (377, 21793), (382, 21802), (406, 21871), (408, 21874), (416, 21892), (428, 21934), (436, 21955), (448, 21985), (502, 22135), (514, 22168), (522, 22177), (548, 22240), (562, 22288), (568, 22300), (591, 22369), (610, 22393), (620, 22423), (630, 22462), (692, 22651), (721, 22726), (735, 22780), (774, 22864), (782, 22882), (822, 22969), (833, 22993), (843, 23035), (860, 23095),

Gene: Tigress9_26 Start: 20014, Stop: 22350, Start Num: 24
Candidate Starts for Tigress9_26:
(16, 19981), (Start: 24 @20014 has 60 MA's), (26, 20023), (47, 20071), (48, 20074), (93, 20203), (144, 20254), (181, 20350), (185, 20359), (204, 20449), (214, 20488), (233, 20560), (235, 20569), (262, 20662), (288, 20743), (296, 20773), (306, 20812), (307, 20827), (317, 20851), (344, 20911), (357, 20956), (364, 20983), (372, 21022), (377, 21040), (382, 21049), (406, 21118), (408, 21121), (416,

21139), (428, 21181), (436, 21202), (442, 21217), (448, 21232), (476, 21319), (512, 21412), (514, 21415), (548, 21487), (562, 21535), (591, 21616), (610, 21640), (618, 21664), (620, 21670), (630, 21709), (692, 21898), (721, 21973), (735, 22027), (774, 22111), (782, 22129), (822, 22216), (833, 22240), (843, 22282), (860, 22342),

Gene: Tillicus_29 Start: 25684, Stop: 27684, Start Num: 5
Candidate Starts for Tillicus_29:
(Start: 5 @25684 has 38 MA's), (29, 25798), (34, 25807), (39, 25816), (41, 25819), (45, 25828), (73, 25897), (91, 25954), (209, 26335), (218, 26368), (249, 26491), (252, 26497), (300, 26641), (306, 26668), (344, 26797), (353, 26821), (380, 26956), (394, 26989), (468, 27262), (475, 27286), (551, 27496), (553, 27502), (567, 27532), (578, 27565),

Gene: Timmi_30 Start: 28477, Stop: 30732, Start Num: 37
Candidate Starts for Timmi_30:
(Start: 37 @28477 has 342 MA's), (74, 28573), (98, 28651), (104, 28678), (143, 28777), (192, 28936), (237, 29116), (244, 29140), (271, 29236), (283, 29272), (295, 29311), (298, 29320), (306, 29353), (316, 29392), (334, 29437), (351, 29488), (361, 29539), (363, 29548), (380, 29617), (410, 29692), (426, 29737), (429, 29752), (469, 29887), (492, 29941), (499, 29962), (509, 29995), (530, 30040), (551, 30094), (563, 30121), (583, 30178), (590, 30199), (614, 30241), (625, 30280), (642, 30340), (728, 30580), (737, 30616), (751, 30649), (789, 30718),

Gene: TingHuaYa_27 Start: 20178, Stop: 22490, Start Num: 66
Candidate Starts for TingHuaYa_27:
(Start: 66 @20178 has 18 MA's), (148, 20328), (155, 20349), (178, 20406), (198, 20472), (205, 20517), (218, 20559), (219, 20571), (232, 20616), (263, 20727), (271, 20748), (289, 20814), (294, 20829), (316, 20910), (326, 20940), (344, 20979), (353, 20994), (363, 21054), (388, 21138), (411, 21210), (521, 21519), (542, 21573), (543, 21576), (547, 21588), (551, 21615), (557, 21633), (558, 21639), (607, 21771), (685, 22020), (689, 22035), (698, 22065), (712, 22104), (744, 22212), (759, 22242), (782, 22284), (791, 22305), (813, 22347), (824, 22371), (825, 22374), (833, 22398), (834, 22404), (854, 22467), (859, 22482),

Gene: TinyTerror_31 Start: 28602, Stop: 30827, Start Num: 28
Candidate Starts for TinyTerror_31:
(Start: 28 @28602 has 52 MA's), (Start: 40 @28617 has 1 MA's), (59, 28662), (79, 28719), (105, 28797), (135, 28866), (143, 28878), (158, 28920), (169, 28956), (179, 28983), (183, 28995), (190, 29022), (211, 29112), (229, 29184), (252, 29268), (286, 29376), (291, 29397), (316, 29490), (323, 29505), (360, 29634), (380, 29715), (410, 29790), (425, 29832), (426, 29838), (436, 29874), (453, 29937), (469, 29988), (473, 30000), (492, 30042), (499, 30063), (521, 30117), (530, 30141), (546, 30177), (583, 30273), (586, 30282), (614, 30336), (645, 30444), (656, 30471), (672, 30513), (701, 30585), (728, 30675), (737, 30711),

Gene: TomBombadil_31 Start: 28762, Stop: 31017, Start Num: 37
Candidate Starts for TomBombadil_31:
(Start: 37 @28762 has 342 MA's), (74, 28858), (98, 28936), (104, 28963), (143, 29062), (192, 29221), (237, 29401), (244, 29425), (269, 29515), (271, 29521), (283, 29557), (295, 29596), (298, 29605), (306, 29638), (316, 29677), (334, 29722), (351, 29773), (361, 29824), (363, 29833), (380, 29902), (410, 29977), (426, 30022), (429, 30037), (469, 30172), (492, 30226), (499, 30247), (509, 30280), (530, 30325), (551, 30379), (563, 30406), (583, 30463), (590, 30484), (614, 30526), (625, 30565), (642, 30625), (728, 30865), (736, 30898), (737, 30901), (751, 30934), (756, 30940), (789, 31003),

Gene: Tomlarah_31 Start: 28753, Stop: 31008, Start Num: 37
Candidate Starts for Tomlarah_31:

(Start: 37 @28753 has 342 MA's), (74, 28849), (98, 28927), (104, 28954), (143, 29053), (192, 29212), (237, 29392), (244, 29416), (269, 29506), (271, 29512), (283, 29548), (295, 29587), (298, 29596), (306, 29629), (316, 29668), (334, 29713), (351, 29764), (361, 29815), (363, 29824), (380, 29893), (410, 29968), (426, 30013), (429, 30028), (469, 30163), (492, 30217), (499, 30238), (509, 30271), (530, 30316), (551, 30370), (563, 30397), (583, 30454), (590, 30475), (614, 30517), (625, 30556), (642, 30616), (728, 30856), (736, 30889), (737, 30892), (751, 30925), (756, 30931), (789, 30994),

Gene: Toni_30 Start: 28469, Stop: 30724, Start Num: 37
Candidate Starts for Toni_30:
(Start: 37 @28469 has 342 MA's), (74, 28565), (98, 28643), (104, 28670), (143, 28769), (192, 28928), (237, 29108), (244, 29132), (269, 29222), (271, 29228), (283, 29264), (295, 29303), (298, 29312), (306, 29345), (316, 29384), (334, 29429), (351, 29480), (361, 29531), (363, 29540), (380, 29609), (410, 29684), (426, 29729), (429, 29744), (469, 29879), (492, 29933), (499, 29954), (509, 29987), (530, 30032), (551, 30086), (583, 30170), (590, 30191), (614, 30233), (625, 30272), (642, 30332), (728, 30572), (736, 30605), (737, 30608), (751, 30641), (756, 30647), (789, 30710),

Gene: TooFast2Furius_32 Start: 28998, Stop: 31253, Start Num: 37
Candidate Starts for TooFast2Furius_32:
(Start: 37 @28998 has 342 MA's), (74, 29094), (98, 29172), (104, 29199), (143, 29298), (192, 29457), (237, 29637), (244, 29661), (269, 29751), (271, 29757), (283, 29793), (295, 29832), (298, 29841), (306, 29874), (316, 29913), (334, 29958), (351, 30009), (361, 30060), (363, 30069), (380, 30138), (410, 30213), (426, 30258), (429, 30273), (469, 30408), (492, 30462), (499, 30483), (509, 30516), (530, 30561), (551, 30615), (563, 30642), (583, 30699), (590, 30720), (614, 30762), (625, 30801), (642, 30861), (728, 31101), (737, 31137), (751, 31170), (789, 31239),

Gene: Tooj_31 Start: 28823, Stop: 31081, Start Num: 37
Candidate Starts for Tooj_31:
(Start: 37 @28823 has 342 MA's), (74, 28919), (98, 28997), (104, 29024), (143, 29126), (192, 29285), (237, 29465), (244, 29489), (271, 29585), (283, 29621), (295, 29660), (298, 29669), (306, 29702), (316, 29741), (334, 29786), (351, 29837), (361, 29888), (363, 29897), (380, 29966), (410, 30041), (426, 30086), (429, 30101), (469, 30236), (492, 30290), (499, 30311), (509, 30344), (530, 30389), (551, 30443), (563, 30470), (583, 30527), (590, 30548), (614, 30590), (625, 30629), (642, 30689), (728, 30929), (736, 30962), (737, 30965), (751, 30998), (756, 31004), (789, 31067),

Gene: Torres_23 Start: 20414, Stop: 22900, Start Num: 24
Candidate Starts for Torres_23:
(Start: 24 @20414 has 60 MA's), (44, 20462), (142, 20642), (143, 20645), (164, 20708), (169, 20720), (204, 20852), (214, 20891), (229, 20948), (235, 20972), (238, 20984), (252, 21032), (254, 21035), (267, 21068), (277, 21107), (288, 21140), (291, 21152), (294, 21161), (296, 21167), (311, 21233), (317, 21248), (352, 21359), (357, 21392), (377, 21476), (385, 21491), (406, 21551), (430, 21620), (462, 21740), (496, 21833), (541, 21947), (565, 22025), (568, 22031), (574, 22055), (594, 22118), (596, 22121), (603, 22133), (625, 22199), (627, 22205), (639, 22247), (644, 22268), (645, 22277), (657, 22310), (663, 22328), (685, 22397), (721, 22496), (722, 22502), (728, 22520), (742, 22574), (747, 22589), (766, 22616), (793, 22673),

Gene: TriFive_21 Start: 19724, Stop: 22237, Start Num: 18
Candidate Starts for TriFive_21:
(Start: 18 @19724 has 19 MA's), (41, 19787), (68, 19859), (98, 19949), (101, 19955), (127, 20027), (150, 20114), (189, 20219), (192, 20231), (196, 20249), (204, 20288), (212, 20318), (228, 20375), (235, 20405), (237, 20411), (250, 20465), (253, 20471), (294, 20618), (295, 20621), (298, 20630), (303, 20648), (318, 20708), (321, 20717), (325, 20729), (343, 20780), (345, 20783), (386, 20948), (407, 21005), (438, 21089), (444, 21107), (447, 21116), (468, 21179), (514, 21299), (529, 21323), (538, 21344), (544, 21359), (550, 21377), (559, 21407), (589, 21497), (622, 21566), (630, 21599),

(636, 21620), (648, 21656), (661, 21692), (675, 21737), (682, 21761), (685, 21767), (689, 21782), (694, 21800), (728, 21887), (733, 21911), (744, 21947), (747, 21953), (760, 21977), (797, 22052), (799, 22055), (832, 22142), (834, 22151), (835, 22157),

Gene: Triad_31 Start: 27630, Stop: 29885, Start Num: 37
Candidate Starts for Triad_31:
(Start: 37 @27630 has 342 MA's), (74, 27726), (98, 27804), (104, 27831), (143, 27930), (237, 28269), (244, 28293), (269, 28383), (271, 28389), (283, 28425), (295, 28464), (306, 28506), (316, 28545), (334, 28590), (351, 28641), (361, 28692), (363, 28701), (380, 28770), (410, 28845), (426, 28890), (429, 28905), (469, 29040), (492, 29094), (499, 29115), (509, 29148), (530, 29193), (551, 29247), (583, 29331), (590, 29352), (614, 29394), (625, 29433), (642, 29493), (728, 29733), (736, 29766), (737, 29769), (751, 29802), (756, 29808), (789, 29871),

Gene: TribleTrouble_25 Start: 21122, Stop: 23572, Start Num: 24
Candidate Starts for TribleTrouble_25:
(Start: 24 @21122 has 60 MA's), (Start: 36 @21149 has 1 MA's), (44, 21170), (48, 21182), (64, 21227), (76, 21257), (86, 21287), (140, 21449), (144, 21470), (172, 21548), (188, 21593), (196, 21629), (201, 21647), (221, 21725), (230, 21761), (288, 21959), (292, 21974), (306, 22025), (323, 22082), (364, 22199), (373, 22241), (377, 22256), (382, 22265), (408, 22346), (416, 22364), (428, 22406), (436, 22427), (445, 22448), (448, 22457), (476, 22544), (514, 22640), (544, 22700), (548, 22712), (561, 22754), (591, 22841), (620, 22895), (630, 22934), (635, 22952), (668, 23051), (674, 23069), (692, 23123), (709, 23168), (716, 23180), (722, 23204), (730, 23231), (770, 23327), (774, 23336), (833, 23465), (840, 23492), (843, 23504),

Gene: Trice_23 Start: 20414, Stop: 22900, Start Num: 24
Candidate Starts for Trice_23:
(Start: 24 @20414 has 60 MA's), (44, 20462), (142, 20642), (143, 20645), (164, 20708), (169, 20720), (204, 20852), (214, 20891), (229, 20948), (235, 20972), (238, 20984), (252, 21032), (254, 21035), (267, 21068), (277, 21107), (288, 21140), (291, 21152), (294, 21161), (296, 21167), (311, 21233), (317, 21248), (352, 21359), (357, 21392), (377, 21476), (385, 21491), (406, 21551), (430, 21620), (462, 21740), (496, 21833), (541, 21947), (565, 22025), (568, 22031), (574, 22055), (594, 22118), (596, 22121), (603, 22133), (625, 22199), (627, 22205), (639, 22247), (644, 22268), (645, 22277), (657, 22310), (663, 22328), (685, 22397), (721, 22496), (722, 22502), (728, 22520), (742, 22574), (747, 22589), (766, 22616), (793, 22673),

Gene: True_30 Start: 28466, Stop: 30721, Start Num: 37
Candidate Starts for True_30:
(Start: 37 @28466 has 342 MA's), (74, 28562), (98, 28640), (104, 28667), (143, 28766), (192, 28925), (237, 29105), (244, 29129), (269, 29219), (271, 29225), (283, 29261), (295, 29300), (298, 29309), (306, 29342), (316, 29381), (334, 29426), (351, 29477), (361, 29528), (363, 29537), (380, 29606), (410, 29681), (426, 29726), (429, 29741), (469, 29876), (492, 29930), (499, 29951), (509, 29984), (530, 30029), (551, 30083), (563, 30110), (583, 30167), (590, 30188), (614, 30230), (625, 30269), (642, 30329), (728, 30569), (736, 30602), (737, 30605), (751, 30638), (756, 30644), (789, 30707),

Gene: Trypo_31 Start: 28761, Stop: 31016, Start Num: 37
Candidate Starts for Trypo_31:
(Start: 37 @28761 has 342 MA's), (74, 28857), (98, 28935), (104, 28962), (143, 29061), (192, 29220), (237, 29400), (244, 29424), (271, 29520), (283, 29556), (295, 29595), (298, 29604), (306, 29637), (316, 29676), (334, 29721), (351, 29772), (361, 29823), (363, 29832), (380, 29901), (410, 29976), (426, 30021), (429, 30036), (469, 30171), (492, 30225), (499, 30246), (509, 30279), (530, 30324), (551, 30378), (563, 30405), (583, 30462), (590, 30483), (614, 30525), (625, 30564), (642, 30624), (728, 30864), (737, 30900), (751, 30933), (789, 31002),

Gene: Tydolla_31 Start: 29351, Stop: 31576, Start Num: 28
Candidate Starts for Tydolla_31:
(Start: 28 @29351 has 52 MA's), (Start: 40 @29366 has 1 MA's), (59, 29411), (79, 29468), (105, 29546), (135, 29615), (143, 29627), (158, 29669), (169, 29705), (179, 29732), (183, 29744), (190, 29771), (211, 29861), (229, 29933), (252, 30017), (286, 30125), (291, 30146), (316, 30239), (323, 30254), (360, 30383), (380, 30464), (410, 30539), (425, 30581), (426, 30587), (436, 30623), (469, 30737), (473, 30749), (492, 30791), (499, 30812), (521, 30866), (530, 30890), (546, 30926), (583, 31022), (586, 31031), (614, 31085), (645, 31193), (656, 31220), (672, 31262), (701, 31334), (728, 31424), (737, 31460),

Gene: Typha_27 Start: 23429, Stop: 26023, Start Num: 31
Candidate Starts for Typha_27:
(Start: 31 @23429 has 6 MA's), (48, 23468), (75, 23543), (105, 23645), (109, 23654), (133, 23732), (157, 23813), (160, 23822), (176, 23867), (180, 23870), (183, 23879), (186, 23891), (187, 23894), (193, 23918), (200, 23945), (202, 23954), (215, 24017), (233, 24083), (242, 24119), (243, 24122), (265, 24194), (267, 24200), (288, 24269), (307, 24353), (335, 24434), (340, 24455), (382, 24629), (392, 24656), (406, 24707), (424, 24752), (440, 24803), (444, 24812), (459, 24890), (504, 25013), (505, 25016), (507, 25019), (548, 25130), (568, 25193), (584, 25241), (621, 25328), (627, 25355), (630, 25364), (633, 25370), (645, 25421), (685, 25538), (686, 25541), (718, 25625), (728, 25661), (735, 25691), (743, 25715), (768, 25766), (772, 25772), (776, 25778), (823, 25880), (834, 25916), (855, 26006), (859, 26015),

Gene: TyrionL_30 Start: 28325, Stop: 30580, Start Num: 37
Candidate Starts for TyrionL_30:
(Start: 37 @28325 has 342 MA's), (74, 28421), (98, 28499), (104, 28526), (143, 28625), (192, 28784), (237, 28964), (244, 28988), (271, 29084), (283, 29120), (295, 29159), (298, 29168), (306, 29201), (316, 29240), (334, 29285), (351, 29336), (363, 29396), (380, 29465), (410, 29540), (426, 29585), (429, 29600), (469, 29735), (492, 29789), (499, 29810), (509, 29843), (530, 29888), (551, 29942), (563, 29969), (583, 30026), (590, 30047), (614, 30089), (625, 30128), (642, 30188), (728, 30428), (736, 30461), (737, 30464), (751, 30497), (789, 30566),

Gene: UAch1_31 Start: 28775, Stop: 31030, Start Num: 37
Candidate Starts for UAch1_31:
(Start: 37 @28775 has 342 MA's), (74, 28871), (98, 28949), (104, 28976), (143, 29075), (192, 29234), (237, 29414), (244, 29438), (269, 29528), (271, 29534), (283, 29570), (295, 29609), (298, 29618), (306, 29651), (316, 29690), (334, 29735), (351, 29786), (361, 29837), (363, 29846), (380, 29915), (410, 29990), (426, 30035), (429, 30050), (469, 30185), (492, 30239), (499, 30260), (509, 30293), (530, 30338), (551, 30392), (583, 30476), (590, 30497), (614, 30539), (625, 30578), (642, 30638), (728, 30878), (736, 30911), (737, 30914), (751, 30947), (756, 30953), (789, 31016),

Gene: UncleHowie_31 Start: 28465, Stop: 30720, Start Num: 37
Candidate Starts for UncleHowie_31:
(Start: 37 @28465 has 342 MA's), (74, 28561), (98, 28639), (104, 28666), (143, 28765), (192, 28924), (237, 29104), (244, 29128), (269, 29218), (271, 29224), (283, 29260), (295, 29299), (298, 29308), (306, 29341), (316, 29380), (334, 29425), (351, 29476), (361, 29527), (363, 29536), (380, 29605), (410, 29680), (426, 29725), (429, 29740), (469, 29875), (492, 29929), (499, 29950), (509, 29983), (530, 30028), (551, 30082), (563, 30109), (583, 30166), (590, 30187), (614, 30229), (625, 30268), (642, 30328), (728, 30568), (737, 30604), (751, 30637), (789, 30706),

Gene: Unicorn_26 Start: 20093, Stop: 22432, Start Num: 24
Candidate Starts for Unicorn_26:
(Start: 24 @20093 has 60 MA's), (47, 20150), (89, 20264), (93, 20282), (144, 20333), (149, 20354), (181, 20432), (204, 20531), (208, 20543), (233, 20642), (235, 20651), (262, 20744), (288, 20825),

(296, 20855), (300, 20867), (302, 20876), (306, 20894), (307, 20909), (317, 20933), (344, 20993), (357, 21038), (364, 21065), (377, 21122), (382, 21131), (406, 21200), (408, 21203), (416, 21221), (428, 21263), (436, 21284), (448, 21314), (476, 21401), (502, 21464), (514, 21497), (548, 21569), (562, 21617), (568, 21629), (591, 21698), (610, 21722), (630, 21791), (692, 21980), (721, 22055), (728, 22079), (770, 22184), (774, 22193), (782, 22211), (822, 22298), (833, 22322), (843, 22364), (860, 22424),

Gene: Usavi_31 Start: 28766, Stop: 31021, Start Num: 37
Candidate Starts for Usavi_31:
(Start: 37 @28766 has 342 MA's), (74, 28862), (98, 28940), (104, 28967), (143, 29066), (192, 29225), (237, 29405), (244, 29429), (269, 29519), (271, 29525), (283, 29561), (295, 29600), (298, 29609), (306, 29642), (316, 29681), (334, 29726), (351, 29777), (361, 29828), (363, 29837), (380, 29906), (410, 29981), (426, 30026), (429, 30041), (469, 30176), (492, 30230), (499, 30251), (509, 30284), (530, 30329), (551, 30383), (563, 30410), (583, 30467), (590, 30488), (614, 30530), (625, 30569), (642, 30629), (728, 30869), (736, 30902), (737, 30905), (751, 30938), (756, 30944), (789, 31007),

Gene: Vaishali24_30 Start: 28427, Stop: 30682, Start Num: 37
Candidate Starts for Vaishali24_30:
(Start: 37 @28427 has 342 MA's), (74, 28523), (98, 28601), (104, 28628), (143, 28727), (237, 29066), (244, 29090), (269, 29180), (271, 29186), (283, 29222), (295, 29261), (306, 29303), (316, 29342), (334, 29387), (351, 29438), (361, 29489), (363, 29498), (380, 29567), (410, 29642), (426, 29687), (429, 29702), (469, 29837), (492, 29891), (499, 29912), (509, 29945), (530, 29990), (551, 30044), (583, 30128), (590, 30149), (614, 30191), (625, 30230), (642, 30290), (728, 30530), (736, 30563), (737, 30566), (751, 30599), (756, 30605), (789, 30668),

Gene: Validus_27 Start: 20168, Stop: 22669, Start Num: 24
Candidate Starts for Validus_27:
(Start: 24 @20168 has 60 MA's), (63, 20267), (71, 20285), (89, 20339), (141, 20390), (144, 20408), (169, 20474), (188, 20528), (204, 20606), (214, 20645), (229, 20702), (238, 20738), (254, 20789), (272, 20834), (287, 20888), (288, 20891), (294, 20912), (296, 20918), (306, 20957), (352, 21110), (360, 21155), (377, 21227), (401, 21281), (406, 21302), (411, 21314), (444, 21407), (450, 21422), (459, 21485), (496, 21581), (565, 21773), (568, 21779), (574, 21803), (594, 21866), (627, 21953), (645, 22025), (657, 22058), (663, 22076), (675, 22115), (744, 22331), (803, 22442), (823, 22499), (829, 22517), (837, 22547),

Gene: Valjean_31 Start: 28758, Stop: 31013, Start Num: 37
Candidate Starts for Valjean_31:
(Start: 37 @28758 has 342 MA's), (74, 28854), (98, 28932), (104, 28959), (143, 29058), (192, 29217), (237, 29397), (244, 29421), (269, 29511), (271, 29517), (283, 29553), (295, 29592), (298, 29601), (306, 29634), (316, 29673), (334, 29718), (351, 29769), (361, 29820), (363, 29829), (380, 29898), (410, 29973), (426, 30018), (429, 30033), (469, 30168), (492, 30222), (499, 30243), (509, 30276), (530, 30321), (551, 30375), (583, 30459), (590, 30480), (614, 30522), (625, 30561), (642, 30621), (728, 30861), (736, 30894), (737, 30897), (751, 30930), (789, 30999),

Gene: Vanisoa_30 Start: 22263, Stop: 24611, Start Num: 22
Candidate Starts for Vanisoa_30:
(Start: 20 @22257 has 4 MA's), (Start: 22 @22263 has 2 MA's), (58, 22362), (Start: 70 @22395 has 1 MA's), (124, 22530), (156, 22620), (191, 22722), (197, 22749), (205, 22785), (226, 22854), (228, 22860), (283, 23070), (296, 23112), (323, 23202), (333, 23229), (388, 23343), (402, 23376), (437, 23457), (447, 23487), (450, 23493), (485, 23595), (514, 23673), (544, 23733), (556, 23781), (562, 23793), (624, 23946), (630, 23973), (635, 23991), (649, 24030), (659, 24060), (685, 24141), (686, 24144), (733, 24285), (760, 24351), (783, 24396), (793, 24417), (797, 24426), (835, 24531), (849, 24576), (854, 24588),

Gene: Vaticameos_31 Start: 28456, Stop: 30711, Start Num: 37
Candidate Starts for Vaticameos_31:
(Start: 37 @28456 has 342 MA's), (74, 28552), (98, 28630), (104, 28657), (143, 28756), (192, 28915), (237, 29095), (244, 29119), (269, 29209), (271, 29215), (283, 29251), (295, 29290), (298, 29299), (306, 29332), (316, 29371), (334, 29416), (351, 29467), (361, 29518), (363, 29527), (380, 29596), (410, 29671), (426, 29716), (429, 29731), (469, 29866), (492, 29920), (499, 29941), (509, 29974), (530, 30019), (551, 30073), (563, 30100), (583, 30157), (590, 30178), (614, 30220), (625, 30259), (642, 30319), (728, 30559), (736, 30592), (737, 30595), (751, 30628), (756, 30634), (789, 30697),

Gene: Vectra_30 Start: 28328, Stop: 30583, Start Num: 37
Candidate Starts for Vectra_30:
(Start: 37 @28328 has 342 MA's), (74, 28424), (98, 28502), (104, 28529), (143, 28628), (192, 28787), (237, 28967), (244, 28991), (271, 29087), (283, 29123), (295, 29162), (298, 29171), (306, 29204), (316, 29243), (334, 29288), (351, 29339), (361, 29390), (363, 29399), (380, 29468), (410, 29543), (426, 29588), (429, 29603), (469, 29738), (492, 29792), (499, 29813), (509, 29846), (530, 29891), (551, 29945), (563, 29972), (583, 30029), (590, 30050), (614, 30092), (625, 30131), (642, 30191), (728, 30431), (736, 30464), (737, 30467), (751, 30500), (756, 30506), (789, 30569),

Gene: Veritas_30 Start: 28328, Stop: 30583, Start Num: 37
Candidate Starts for Veritas_30:
(Start: 37 @28328 has 342 MA's), (74, 28424), (98, 28502), (104, 28529), (143, 28628), (192, 28787), (237, 28967), (244, 28991), (269, 29081), (271, 29087), (283, 29123), (295, 29162), (298, 29171), (306, 29204), (316, 29243), (334, 29288), (351, 29339), (361, 29390), (363, 29399), (380, 29468), (410, 29543), (426, 29588), (429, 29603), (469, 29738), (492, 29792), (499, 29813), (509, 29846), (530, 29891), (551, 29945), (563, 29972), (583, 30029), (590, 30050), (614, 30092), (625, 30131), (642, 30191), (728, 30431), (736, 30464), (737, 30467), (751, 30500), (756, 30506), (789, 30569),

Gene: Vincenzo_29 Start: 29686, Stop: 31983, Start Num: 37
Candidate Starts for Vincenzo_29:
(Start: 37 @29686 has 342 MA's), (43, 29701), (74, 29785), (79, 29803), (97, 29860), (143, 29989), (218, 30253), (228, 30292), (229, 30298), (237, 30328), (241, 30343), (244, 30352), (265, 30433), (266, 30436), (294, 30535), (295, 30538), (296, 30541), (300, 30553), (335, 30676), (346, 30700), (360, 30763), (368, 30802), (392, 30874), (399, 30895), (404, 30916), (410, 30931), (417, 30952), (426, 30982), (434, 31015), (436, 31018), (440, 31030), (453, 31081), (457, 31084), (460, 31102), (468, 31126), (469, 31132), (492, 31186), (499, 31207), (521, 31261), (530, 31285), (583, 31420), (585, 31426), (586, 31429), (590, 31441), (626, 31525), (672, 31660), (682, 31684), (703, 31747), (713, 31783), (723, 31816), (728, 31831), (736, 31864), (737, 31867), (789, 31969), (790, 31972),

Gene: VioletZ_28 Start: 29041, Stop: 31338, Start Num: 37
Candidate Starts for VioletZ_28:
(Start: 1 @28354 has 1 MA's), (2, 28501), (Start: 37 @29041 has 342 MA's), (74, 29140), (79, 29158), (118, 29281), (143, 29344), (167, 29425), (189, 29491), (218, 29608), (228, 29647), (241, 29698), (244, 29707), (258, 29764), (265, 29788), (266, 29791), (283, 29854), (296, 29896), (300, 29908), (334, 30019), (335, 30031), (346, 30055), (360, 30118), (392, 30229), (399, 30250), (410, 30286), (417, 30307), (436, 30373), (440, 30385), (453, 30436), (457, 30439), (460, 30457), (468, 30481), (476, 30508), (492, 30541), (499, 30562), (509, 30595), (530, 30640), (585, 30781), (586, 30784), (590, 30796), (626, 30880), (664, 30994), (672, 31015), (682, 31039), (703, 31102), (710, 31132), (728, 31186), (736, 31219), (737, 31222), (747, 31246), (789, 31324), (790, 31327),

Gene: Virapocalypse_31 Start: 28752, Stop: 31007, Start Num: 37
Candidate Starts for Virapocalypse_31:

(Start: 37 @28752 has 342 MA's), (74, 28848), (98, 28926), (104, 28953), (143, 29052), (192, 29211), (237, 29391), (244, 29415), (269, 29505), (271, 29511), (283, 29547), (295, 29586), (298, 29595), (306, 29628), (316, 29667), (334, 29712), (351, 29763), (361, 29814), (363, 29823), (380, 29892), (410, 29967), (426, 30012), (429, 30027), (469, 30162), (492, 30216), (499, 30237), (509, 30270), (530, 30315), (551, 30369), (563, 30396), (583, 30453), (590, 30474), (614, 30516), (625, 30555), (642, 30615), (728, 30855), (736, 30888), (737, 30891), (751, 30924), (756, 30930), (789, 30993),

Gene: Virgeve_30 Start: 28527, Stop: 30788, Start Num: 37
Candidate Starts for Virgeve_30:
(Start: 37 @28527 has 342 MA's), (74, 28623), (98, 28701), (104, 28728), (133, 28803), (143, 28833), (192, 28992), (237, 29172), (244, 29196), (271, 29292), (283, 29328), (295, 29367), (298, 29376), (306, 29409), (316, 29448), (334, 29493), (351, 29544), (363, 29604), (380, 29673), (410, 29748), (426, 29793), (429, 29808), (469, 29943), (492, 29997), (499, 30018), (509, 30051), (530, 30096), (551, 30150), (563, 30177), (583, 30234), (590, 30255), (614, 30297), (625, 30336), (642, 30396), (728, 30636), (737, 30672), (751, 30705), (789, 30774),

Gene: Vista_31 Start: 28766, Stop: 31021, Start Num: 37
Candidate Starts for Vista_31:
(Start: 37 @28766 has 342 MA's), (74, 28862), (98, 28940), (104, 28967), (143, 29066), (192, 29225), (237, 29405), (244, 29429), (269, 29519), (271, 29525), (283, 29561), (295, 29600), (298, 29609), (306, 29642), (316, 29681), (334, 29726), (351, 29777), (361, 29828), (363, 29837), (380, 29906), (410, 29981), (426, 30026), (429, 30041), (469, 30176), (492, 30230), (499, 30251), (509, 30284), (530, 30329), (551, 30383), (563, 30410), (583, 30467), (590, 30488), (614, 30530), (625, 30569), (642, 30629), (728, 30869), (737, 30905), (751, 30938), (789, 31007),

Gene: Vivaldi_31 Start: 28792, Stop: 31050, Start Num: 37
Candidate Starts for Vivaldi_31:
(Start: 37 @28792 has 342 MA's), (74, 28888), (98, 28966), (104, 28993), (143, 29095), (237, 29434), (244, 29458), (271, 29554), (283, 29590), (295, 29629), (306, 29671), (316, 29710), (334, 29755), (351, 29806), (361, 29857), (363, 29866), (380, 29935), (410, 30010), (426, 30055), (429, 30070), (469, 30205), (492, 30259), (499, 30280), (509, 30313), (530, 30358), (551, 30412), (583, 30496), (590, 30517), (614, 30559), (625, 30598), (642, 30658), (728, 30898), (736, 30931), (737, 30934), (751, 30967), (756, 30973), (789, 31036),

Gene: Vordorf_29 Start: 24001, Stop: 26601, Start Num: 10
Candidate Starts for Vordorf_29:
(Start: 10 @24001 has 1 MA's), (49, 24115), (51, 24124), (203, 24601), (238, 24736), (247, 24772), (265, 24823), (266, 24826), (288, 24898), (303, 24949), (306, 24964), (308, 24982), (316, 25006), (409, 25336), (414, 25348), (431, 25420), (470, 25567), (481, 25597), (513, 25678), (533, 25720), (553, 25783), (599, 25909), (660, 26092), (683, 26173), (719, 26296), (739, 26371), (760, 26425), (784, 26485), (788, 26497),

Gene: Vortex_31 Start: 28472, Stop: 30727, Start Num: 37
Candidate Starts for Vortex_31:
(Start: 37 @28472 has 342 MA's), (74, 28568), (98, 28646), (104, 28673), (143, 28772), (192, 28931), (237, 29111), (244, 29135), (271, 29231), (283, 29267), (295, 29306), (298, 29315), (306, 29348), (316, 29387), (334, 29432), (351, 29483), (361, 29534), (363, 29543), (380, 29612), (410, 29687), (426, 29732), (429, 29747), (469, 29882), (492, 29936), (499, 29957), (509, 29990), (530, 30035), (551, 30089), (563, 30116), (583, 30173), (590, 30194), (614, 30236), (625, 30275), (642, 30335), (728, 30575), (737, 30611), (751, 30644), (789, 30713),

Gene: Waleliano_28 Start: 28968, Stop: 31265, Start Num: 37
Candidate Starts for Waleliano_28:

(Start: 1 @28281 has 1 MA's), (2, 28428), (Start: 37 @28968 has 342 MA's), (74, 29067), (79, 29085), (118, 29208), (143, 29271), (167, 29352), (189, 29418), (218, 29535), (228, 29574), (241, 29625), (244, 29634), (258, 29691), (265, 29715), (266, 29718), (283, 29781), (296, 29823), (300, 29835), (335, 29958), (346, 29982), (360, 30045), (392, 30156), (399, 30177), (410, 30213), (417, 30234), (436, 30300), (440, 30312), (452, 30354), (453, 30363), (457, 30366), (460, 30384), (461, 30387), (468, 30408), (476, 30435), (492, 30468), (499, 30489), (509, 30522), (530, 30567), (585, 30708), (586, 30711), (590, 30723), (626, 30807), (664, 30921), (672, 30942), (682, 30966), (703, 31029), (710, 31059), (728, 31113), (736, 31146), (737, 31149), (789, 31251), (790, 31254),

Gene: Wallhey_30 Start: 28329, Stop: 30584, Start Num: 37
Candidate Starts for Wallhey_30:
(Start: 37 @28329 has 342 MA's), (74, 28425), (98, 28503), (104, 28530), (143, 28629), (192, 28788), (237, 28968), (244, 28992), (271, 29088), (283, 29124), (295, 29163), (298, 29172), (306, 29205), (316, 29244), (334, 29289), (351, 29340), (361, 29391), (363, 29400), (380, 29469), (410, 29544), (426, 29589), (429, 29604), (469, 29739), (492, 29793), (499, 29814), (509, 29847), (530, 29892), (551, 29946), (563, 29973), (583, 30030), (590, 30051), (614, 30093), (625, 30132), (642, 30192), (728, 30432), (737, 30468), (751, 30501), (789, 30570),

Gene: Waterdiva_31 Start: 28758, Stop: 31013, Start Num: 37
Candidate Starts for Waterdiva_31:
(Start: 37 @28758 has 342 MA's), (74, 28854), (98, 28932), (104, 28959), (143, 29058), (192, 29217), (237, 29397), (244, 29421), (269, 29511), (271, 29517), (283, 29553), (295, 29592), (298, 29601), (306, 29634), (316, 29673), (334, 29718), (351, 29769), (361, 29820), (363, 29829), (380, 29898), (410, 29973), (426, 30018), (429, 30033), (469, 30168), (492, 30222), (499, 30243), (509, 30276), (530, 30321), (551, 30375), (563, 30402), (583, 30459), (590, 30480), (614, 30522), (625, 30561), (642, 30621), (728, 30861), (736, 30894), (737, 30897), (751, 30930), (756, 30936), (789, 30999),

Gene: Weher20_31 Start: 28757, Stop: 31012, Start Num: 37
Candidate Starts for Weher20_31:
(Start: 37 @28757 has 342 MA's), (74, 28853), (98, 28931), (104, 28958), (143, 29057), (192, 29216), (237, 29396), (244, 29420), (269, 29510), (271, 29516), (283, 29552), (295, 29591), (298, 29600), (306, 29633), (316, 29672), (334, 29717), (351, 29768), (361, 29819), (363, 29828), (380, 29897), (410, 29972), (426, 30017), (429, 30032), (469, 30167), (492, 30221), (499, 30242), (509, 30275), (530, 30320), (551, 30374), (563, 30401), (583, 30458), (590, 30479), (614, 30521), (625, 30560), (642, 30620), (728, 30860), (736, 30893), (737, 30896), (751, 30929), (756, 30935), (789, 30998),

Gene: WheatThin_25 Start: 20607, Stop: 23117, Start Num: 19
Candidate Starts for WheatThin_25:
(Start: 19 @20607 has 14 MA's), (74, 20739), (77, 20754), (92, 20799), (102, 20817), (165, 20982), (184, 21036), (186, 21045), (203, 21123), (204, 21129), (247, 21294), (254, 21309), (265, 21345), (288, 21420), (291, 21432), (294, 21441), (296, 21447), (300, 21459), (303, 21471), (306, 21486), (308, 21504), (309, 21507), (323, 21543), (338, 21597), (369, 21720), (384, 21774), (391, 21795), (396, 21804), (423, 21906), (441, 21966), (453, 22014), (454, 22026), (466, 22071), (500, 22158), (513, 22197), (541, 22266), (545, 22278), (549, 22290), (649, 22578), (659, 22608), (683, 22689), (690, 22710), (697, 22737), (705, 22761), (752, 22926), (771, 22971), (811, 23070), (826, 23109),

Gene: Whirlwind_22 Start: 19481, Stop: 21994, Start Num: 18
Candidate Starts for Whirlwind_22:
(Start: 18 @19481 has 19 MA's), (41, 19544), (68, 19616), (136, 19814), (185, 19958), (189, 19976), (192, 19988), (196, 20006), (204, 20045), (209, 20060), (212, 20075), (228, 20132), (235, 20162), (237, 20168), (250, 20222), (253, 20228), (268, 20285), (294, 20375), (295, 20378), (298, 20387), (303, 20405), (318, 20465), (343, 20537), (345, 20540), (378, 20684), (386, 20705), (407, 20762), (438, 20846), (444, 20864), (447, 20873), (514, 21056), (538, 21101), (544, 21116), (550, 21134),

(559, 21164), (580, 21224), (589, 21254), (622, 21323), (630, 21356), (636, 21377), (648, 21413), (659, 21443), (682, 21518), (685, 21524), (689, 21539), (694, 21557), (709, 21590), (727, 21641), (728, 21644), (734, 21671), (744, 21704), (760, 21734), (797, 21809), (812, 21845), (834, 21908), (835, 21914), (859, 21986),

Gene: Willsammy_21 Start: 18930, Stop: 21569, Start Num: 9
Candidate Starts for Willsammy_21:
(Start: 9 @18930 has 17 MA's), (11, 18939), (62, 19083), (157, 19356), (160, 19365), (161, 19368), (170, 19389), (174, 19401), (176, 19410), (186, 19434), (200, 19488), (215, 19566), (224, 19596), (233, 19632), (238, 19653), (242, 19668), (254, 19710), (265, 19743), (288, 19818), (294, 19842), (296, 19848), (300, 19860), (307, 19902), (309, 19908), (337, 19995), (368, 20127), (372, 20145), (382, 20178), (392, 20205), (406, 20256), (468, 20466), (494, 20532), (507, 20568), (544, 20667), (548, 20679), (568, 20742), (627, 20904), (633, 20919), (645, 20970), (685, 21087), (700, 21132), (718, 21174), (728, 21210), (743, 21264), (768, 21312), (833, 21456), (845, 21513), (855, 21552), (859, 21561),

Gene: Windsor_30 Start: 28456, Stop: 30717, Start Num: 37
Candidate Starts for Windsor_30:
(Start: 37 @28456 has 342 MA's), (74, 28552), (98, 28630), (104, 28657), (133, 28732), (143, 28762), (192, 28921), (237, 29101), (244, 29125), (271, 29221), (283, 29257), (295, 29296), (298, 29305), (306, 29338), (316, 29377), (334, 29422), (351, 29473), (363, 29533), (380, 29602), (410, 29677), (426, 29722), (429, 29737), (469, 29872), (492, 29926), (499, 29947), (509, 29980), (530, 30025), (551, 30079), (563, 30106), (583, 30163), (590, 30184), (614, 30226), (625, 30265), (642, 30325), (728, 30565), (737, 30601), (751, 30634), (789, 30703),

Gene: Wintermute_28 Start: 22272, Stop: 24581, Start Num: 66
Candidate Starts for Wintermute_28:
(Start: 66 @22272 has 18 MA's), (102, 22362), (106, 22383), (143, 22407), (185, 22524), (214, 22653), (230, 22713), (248, 22785), (252, 22794), (269, 22845), (271, 22851), (274, 22860), (288, 22911), (291, 22923), (296, 22938), (298, 22944), (306, 22977), (319, 23025), (344, 23079), (364, 23151), (372, 23190), (375, 23202), (382, 23217), (400, 23262), (421, 23331), (449, 23412), (502, 23565), (521, 23607), (560, 23736), (574, 23781), (596, 23847), (607, 23862), (636, 23958), (685, 24111), (689, 24126), (692, 24132), (698, 24156), (701, 24162), (703, 24168), (704, 24171), (712, 24195), (718, 24207), (744, 24303), (772, 24354), (774, 24357), (805, 24426), (824, 24462), (834, 24495), (851, 24549), (854, 24558), (859, 24573),

Gene: Woes_27 Start: 35829, Stop: 37850, Start Num: 6
Candidate Starts for Woes_27:
(Start: 6 @35829 has 35 MA's), (14, 35877), (23, 35913), (26, 35931), (30, 35940), (44, 35970), (45, 35973), (84, 36084), (122, 36204), (257, 36681), (261, 36690), (294, 36789), (306, 36834), (327, 36900), (353, 36987), (380, 37122), (394, 37155), (456, 37383), (464, 37416), (465, 37419), (479, 37467), (506, 37533), (509, 37545), (541, 37626), (551, 37662), (553, 37668), (566, 37695), (578, 37728), (617, 37824),

Gene: Wojtek_29 Start: 25988, Stop: 27967, Start Num: 5
Candidate Starts for Wojtek_29:
(Start: 5 @25988 has 38 MA's), (29, 26102), (34, 26111), (39, 26120), (41, 26123), (45, 26132), (73, 26201), (96, 26267), (113, 26306), (119, 26327), (136, 26381), (192, 26558), (209, 26633), (244, 26765), (251, 26792), (254, 26798), (283, 26885), (298, 26933), (300, 26939), (306, 26966), (331, 27044), (344, 27095), (380, 27254), (394, 27287), (425, 27389), (433, 27425), (536, 27731), (551, 27776), (553, 27782), (578, 27842), (601, 27899),

Gene: Xavier_30 Start: 28479, Stop: 30734, Start Num: 37

Candidate Starts for Xavier_30:
(Start: 37 @28479 has 342 MA's), (74, 28575), (98, 28653), (104, 28680), (143, 28779), (192, 28938), (237, 29118), (244, 29142), (269, 29232), (271, 29238), (283, 29274), (295, 29313), (298, 29322), (306, 29355), (316, 29394), (334, 29439), (351, 29490), (361, 29541), (363, 29550), (380, 29619), (410, 29694), (426, 29739), (429, 29754), (469, 29889), (492, 29943), (499, 29964), (509, 29997), (530, 30042), (551, 30096), (563, 30123), (583, 30180), (590, 30201), (614, 30243), (625, 30282), (642, 30342), (728, 30582), (736, 30615), (737, 30618), (751, 30651), (756, 30657), (789, 30720),

Gene: Xeno_20 Start: 17553, Stop: 20198, Start Num: 9
Candidate Starts for Xeno_20:
(7, 17541), (Start: 9 @17553 has 17 MA's), (13, 17565), (15, 17577), (Start: 31 @17631 has 6 MA's), (Start: 61 @17700 has 1 MA's), (62, 17703), (65, 17712), (72, 17727), (129, 17904), (157, 17985), (160, 17994), (183, 18051), (187, 18066), (216, 18198), (229, 18246), (233, 18261), (238, 18282), (247, 18324), (254, 18339), (255, 18348), (265, 18375), (267, 18381), (288, 18450), (294, 18471), (296, 18477), (299, 18486), (305, 18513), (337, 18624), (345, 18645), (352, 18669), (365, 18735), (368, 18756), (372, 18774), (382, 18807), (390, 18831), (392, 18834), (406, 18885), (444, 18990), (453, 19032), (507, 19197), (543, 19293), (568, 19371), (573, 19383), (610, 19473), (627, 19533), (630, 19542), (644, 19590), (645, 19599), (685, 19716), (700, 19761), (718, 19803), (735, 19869), (743, 19893), (768, 19941), (772, 19947), (776, 19953), (822, 20052), (825, 20061), (834, 20091), (855, 20181), (859, 20190),

Gene: Ximenita_27 Start: 20205, Stop: 22535, Start Num: 24
Candidate Starts for Ximenita_27:
(Start: 24 @20205 has 60 MA's), (48, 20265), (93, 20394), (103, 20406), (144, 20445), (181, 20541), (185, 20550), (204, 20640), (214, 20679), (227, 20727), (233, 20751), (235, 20760), (262, 20853), (268, 20868), (288, 20934), (296, 20964), (300, 20976), (306, 21003), (307, 21018), (317, 21042), (344, 21102), (357, 21147), (364, 21174), (372, 21213), (377, 21231), (382, 21240), (406, 21309), (408, 21312), (416, 21330), (428, 21372), (436, 21393), (445, 21414), (448, 21423), (459, 21459), (476, 21510), (548, 21675), (579, 21765), (591, 21804), (596, 21813), (620, 21858), (625, 21882), (630, 21897), (635, 21915), (644, 21945), (692, 22086), (709, 22131), (721, 22161), (728, 22185), (730, 22194), (735, 22215), (745, 22245), (833, 22428), (841, 22455), (843, 22467), (860, 22527),

Gene: Xincheng_27 Start: 28426, Stop: 30714, Start Num: 37
Candidate Starts for Xincheng_27:
(Start: 37 @28426 has 342 MA's), (74, 28525), (79, 28543), (104, 28630), (118, 28666), (143, 28729), (167, 28810), (189, 28876), (218, 28993), (228, 29032), (241, 29083), (244, 29092), (258, 29149), (265, 29173), (266, 29176), (283, 29239), (346, 29440), (354, 29470), (355, 29473), (360, 29503), (392, 29614), (399, 29635), (410, 29671), (417, 29692), (436, 29758), (440, 29770), (453, 29821), (457, 29824), (468, 29866), (476, 29893), (492, 29926), (499, 29947), (509, 29980), (510, 29983), (530, 30025), (534, 30037), (583, 30160), (586, 30169), (590, 30181), (609, 30205), (614, 30223), (625, 30262), (626, 30265), (641, 30319), (645, 30331), (664, 30379), (672, 30400), (728, 30562), (736, 30595), (737, 30598), (789, 30700),

Gene: Y10_28 Start: 22272, Stop: 24581, Start Num: 66
Candidate Starts for Y10_28:
(Start: 66 @22272 has 18 MA's), (102, 22362), (106, 22383), (143, 22407), (185, 22524), (214, 22653), (230, 22713), (248, 22785), (252, 22794), (269, 22845), (271, 22851), (274, 22860), (288, 22911), (291, 22923), (296, 22938), (298, 22944), (306, 22977), (319, 23025), (344, 23079), (364, 23151), (372, 23190), (375, 23202), (382, 23217), (400, 23262), (421, 23331), (449, 23412), (502, 23565), (521, 23607), (560, 23736), (574, 23781), (596, 23847), (607, 23862), (636, 23958), (685, 24111), (689, 24126), (692, 24132), (698, 24156), (701, 24162), (703, 24168), (704, 24171), (712, 24195), (718, 24207), (744, 24303), (772, 24354), (774, 24357), (805, 24426), (824, 24462), (834, 24495), (851, 24549), (854, 24558), (859, 24573),

Gene: Y2_28 Start: 22272, Stop: 24581, Start Num: 66
Candidate Starts for Y2_28:
(Start: 66 @22272 has 18 MA's), (102, 22362), (106, 22383), (143, 22407), (185, 22524), (214, 22653), (230, 22713), (248, 22785), (252, 22794), (269, 22845), (271, 22851), (274, 22860), (288, 22911), (291, 22923), (296, 22938), (298, 22944), (306, 22977), (319, 23025), (344, 23079), (364, 23151), (372, 23190), (375, 23202), (382, 23217), (400, 23262), (421, 23331), (449, 23412), (502, 23565), (521, 23607), (560, 23736), (574, 23781), (596, 23847), (607, 23862), (636, 23958), (685, 24111), (689, 24126), (692, 24132), (698, 24156), (701, 24162), (703, 24168), (704, 24171), (712, 24195), (718, 24207), (744, 24303), (772, 24354), (774, 24357), (805, 24426), (824, 24462), (834, 24495), (851, 24549), (854, 24558), (859, 24573),

Gene: Yahalom_31 Start: 28626, Stop: 30851, Start Num: 28
Candidate Starts for Yahalom_31:
(Start: 28 @28626 has 52 MA's), (Start: 40 @28641 has 1 MA's), (59, 28686), (79, 28743), (105, 28821), (135, 28890), (143, 28902), (158, 28944), (169, 28980), (179, 29007), (183, 29019), (190, 29046), (211, 29136), (217, 29160), (229, 29208), (252, 29292), (286, 29400), (291, 29421), (316, 29514), (323, 29529), (360, 29658), (380, 29739), (410, 29814), (425, 29856), (426, 29862), (453, 29961), (469, 30012), (473, 30024), (492, 30066), (499, 30087), (521, 30141), (530, 30165), (546, 30201), (583, 30297), (586, 30306), (614, 30360), (645, 30468), (656, 30495), (672, 30537), (701, 30609), (728, 30699), (737, 30735),

Gene: YasnayaPolyana_28 Start: 22273, Stop: 24582, Start Num: 66
Candidate Starts for YasnayaPolyana_28:
(Start: 66 @22273 has 18 MA's), (102, 22363), (106, 22384), (143, 22408), (185, 22525), (214, 22654), (230, 22714), (248, 22786), (252, 22795), (269, 22846), (271, 22852), (274, 22861), (288, 22912), (291, 22924), (296, 22939), (298, 22945), (306, 22978), (319, 23026), (344, 23080), (364, 23152), (372, 23191), (375, 23203), (382, 23218), (400, 23263), (421, 23332), (449, 23413), (502, 23566), (521, 23608), (560, 23737), (574, 23782), (596, 23848), (607, 23863), (636, 23959), (685, 24112), (689, 24127), (692, 24133), (698, 24157), (701, 24163), (703, 24169), (704, 24172), (712, 24196), (718, 24208), (744, 24304), (772, 24355), (774, 24358), (805, 24427), (824, 24463), (834, 24496), (851, 24550), (854, 24559), (859, 24574),

Gene: Yikes_31 Start: 27363, Stop: 29363, Start Num: 5
Candidate Starts for Yikes_31:
(Start: 5 @27363 has 38 MA's), (29, 27477), (34, 27486), (39, 27495), (41, 27498), (45, 27507), (73, 27576), (192, 27939), (209, 28014), (244, 28146), (251, 28173), (252, 28176), (254, 28179), (283, 28266), (298, 28314), (300, 28320), (306, 28347), (331, 28425), (344, 28476), (380, 28635), (394, 28668), (468, 28941), (473, 28959), (551, 29175), (553, 29181), (562, 29199), (578, 29241), (601, 29298), (617, 29337),

Gene: Yinz_31 Start: 28649, Stop: 30874, Start Num: 28
Candidate Starts for Yinz_31:
(Start: 28 @28649 has 52 MA's), (Start: 40 @28664 has 1 MA's), (59, 28709), (79, 28766), (105, 28844), (135, 28913), (143, 28925), (158, 28967), (169, 29003), (179, 29030), (183, 29042), (190, 29069), (211, 29159), (229, 29231), (252, 29315), (286, 29423), (291, 29444), (316, 29537), (323, 29552), (360, 29681), (380, 29762), (410, 29837), (425, 29879), (426, 29885), (436, 29921), (469, 30035), (473, 30047), (492, 30089), (499, 30110), (521, 30164), (530, 30188), (546, 30224), (583, 30320), (586, 30329), (614, 30383), (645, 30491), (656, 30518), (672, 30560), (701, 30632), (728, 30722), (737, 30758),

Gene: Yoshand_31 Start: 28765, Stop: 31020, Start Num: 37
Candidate Starts for Yoshand_31:

(Start: 37 @28765 has 342 MA's), (74, 28861), (98, 28939), (104, 28966), (143, 29065), (192, 29224), (237, 29404), (244, 29428), (269, 29518), (271, 29524), (283, 29560), (295, 29599), (298, 29608), (306, 29641), (316, 29680), (334, 29725), (351, 29776), (361, 29827), (363, 29836), (380, 29905), (410, 29980), (426, 30025), (429, 30040), (469, 30175), (492, 30229), (499, 30250), (509, 30283), (530, 30328), (551, 30382), (583, 30466), (590, 30487), (614, 30529), (625, 30568), (642, 30628), (728, 30868), (736, 30901), (737, 30904), (751, 30937), (756, 30943), (789, 31006),

Gene: YouGoGlencoco_31 Start: 28760, Stop: 31015, Start Num: 37
Candidate Starts for YouGoGlencoco_31:
(Start: 37 @28760 has 342 MA's), (74, 28856), (98, 28934), (104, 28961), (143, 29060), (192, 29219), (237, 29399), (244, 29423), (269, 29513), (271, 29519), (283, 29555), (295, 29594), (298, 29603), (306, 29636), (316, 29675), (334, 29720), (351, 29771), (361, 29822), (363, 29831), (380, 29900), (410, 29975), (426, 30020), (429, 30035), (469, 30170), (492, 30224), (499, 30245), (509, 30278), (530, 30323), (551, 30377), (563, 30404), (583, 30461), (590, 30482), (614, 30524), (625, 30563), (642, 30623), (728, 30863), (736, 30896), (737, 30899), (751, 30932), (756, 30938), (789, 31001),

Gene: Yuna_28 Start: 20819, Stop: 23209, Start Num: 24
Candidate Starts for Yuna_28:
(Start: 24 @20819 has 60 MA's), (44, 20867), (59, 20906), (63, 20918), (144, 21059), (164, 21113), (169, 21125), (188, 21179), (193, 21200), (203, 21251), (204, 21257), (228, 21347), (229, 21353), (254, 21440), (271, 21482), (272, 21485), (285, 21533), (288, 21542), (296, 21569), (299, 21578), (306, 21608), (323, 21665), (352, 21761), (354, 21773), (377, 21878), (408, 21947), (424, 21986), (431, 22016), (474, 22139), (480, 22160), (518, 22244), (542, 22295), (543, 22298), (544, 22301), (557, 22340), (574, 22394), (593, 22451), (633, 22553), (635, 22565), (670, 22682), (674, 22688), (687, 22730), (727, 22838), (744, 22901), (823, 23054), (824, 23057), (857, 23183),

Gene: Zaider_32 Start: 28990, Stop: 31245, Start Num: 37
Candidate Starts for Zaider_32:
(Start: 37 @28990 has 342 MA's), (74, 29086), (98, 29164), (104, 29191), (143, 29290), (192, 29449), (237, 29629), (244, 29653), (269, 29743), (271, 29749), (283, 29785), (295, 29824), (298, 29833), (306, 29866), (316, 29905), (334, 29950), (351, 30001), (361, 30052), (363, 30061), (380, 30130), (410, 30205), (426, 30250), (429, 30265), (469, 30400), (492, 30454), (499, 30475), (509, 30508), (530, 30553), (551, 30607), (563, 30634), (583, 30691), (590, 30712), (614, 30754), (625, 30793), (642, 30853), (728, 31093), (736, 31126), (737, 31129), (751, 31162), (756, 31168), (789, 31231),

Gene: Zany_29 Start: 26884, Stop: 28890, Start Num: 5
Candidate Starts for Zany_29:
(Start: 5 @26884 has 38 MA's), (29, 26998), (34, 27007), (39, 27016), (41, 27019), (45, 27028), (73, 27097), (192, 27460), (209, 27535), (244, 27667), (251, 27694), (252, 27697), (254, 27700), (283, 27787), (298, 27835), (300, 27841), (306, 27868), (331, 27946), (344, 27997), (380, 28156), (394, 28189), (419, 28270), (468, 28462), (497, 28540), (498, 28546), (551, 28699), (553, 28705), (567, 28735), (578, 28768), (617, 28864),

Gene: Zelda_31 Start: 28756, Stop: 31011, Start Num: 37
Candidate Starts for Zelda_31:
(Start: 37 @28756 has 342 MA's), (74, 28852), (98, 28930), (104, 28957), (143, 29056), (192, 29215), (237, 29395), (244, 29419), (269, 29509), (271, 29515), (283, 29551), (295, 29590), (298, 29599), (306, 29632), (316, 29671), (334, 29716), (351, 29767), (361, 29818), (363, 29827), (380, 29896), (410, 29971), (426, 30016), (429, 30031), (469, 30166), (492, 30220), (499, 30241), (509, 30274), (530, 30319), (551, 30373), (563, 30400), (583, 30457), (590, 30478), (614, 30520), (625, 30559), (642, 30619), (728, 30859), (737, 30895), (751, 30928), (789, 30997),

Gene: Zemanar_29 Start: 28968, Stop: 31265, Start Num: 37

Candidate Starts for Zemanar_29:
(Start: 37 @28968 has 342 MA's), (74, 29067), (79, 29085), (118, 29208), (143, 29271), (167, 29352), (189, 29418), (218, 29535), (228, 29574), (241, 29625), (244, 29634), (258, 29691), (265, 29715), (266, 29718), (283, 29781), (296, 29823), (300, 29835), (335, 29958), (346, 29982), (360, 30045), (368, 30084), (392, 30156), (399, 30177), (410, 30213), (417, 30234), (436, 30300), (440, 30312), (453, 30363), (457, 30366), (460, 30384), (468, 30408), (476, 30435), (492, 30468), (499, 30489), (509, 30522), (530, 30567), (585, 30708), (586, 30711), (590, 30723), (626, 30807), (664, 30921), (672, 30942), (682, 30966), (703, 31029), (710, 31059), (713, 31065), (728, 31113), (736, 31146), (737, 31149), (789, 31251), (790, 31254),

Gene: Zenteno07_34 Start: 28705, Stop: 31170, Start Num: 37
Candidate Starts for Zenteno07_34:
(Start: 37 @28705 has 342 MA's), (74, 28801), (79, 28819), (89, 28852), (98, 28879), (190, 29170), (210, 29257), (236, 29356), (249, 29410), (259, 29443), (269, 29473), (280, 29503), (282, 29509), (295, 29554), (300, 29569), (306, 29596), (309, 29617), (323, 29650), (328, 29662), (360, 29779), (367, 29809), (374, 29845), (389, 29884), (424, 29992), (427, 30010), (476, 30169), (493, 30205), (518, 30274), (525, 30286), (548, 30352), (571, 30421), (574, 30433), (595, 30487), (603, 30493), (605, 30499), (614, 30523), (621, 30544), (666, 30691), (681, 30736), (689, 30763), (746, 30940), (773, 30979), (778, 30994), (780, 30997), (808, 31066), (818, 31090), (825, 31111),

Gene: ZoeJ_23 Start: 18602, Stop: 20941, Start Num: 24
Candidate Starts for ZoeJ_23:
(Start: 24 @18602 has 60 MA's), (181, 18953), (185, 18962), (195, 19007), (233, 19151), (240, 19175), (288, 19334), (294, 19358), (296, 19364), (300, 19376), (306, 19403), (344, 19502), (364, 19574), (373, 19616), (374, 19622), (377, 19631), (406, 19712), (416, 19733), (428, 19775), (448, 19826), (476, 19913), (478, 19922), (518, 20012), (544, 20066), (548, 20078), (568, 20138), (589, 20198), (596, 20216), (630, 20300), (644, 20348), (668, 20417), (672, 20432), (692, 20489), (703, 20513), (711, 20537), (716, 20546), (728, 20588), (730, 20597), (765, 20684), (774, 20702), (822, 20807), (833, 20831),

Gene: Zonia_31 Start: 28779, Stop: 31034, Start Num: 37
Candidate Starts for Zonia_31:
(Start: 37 @28779 has 342 MA's), (74, 28875), (98, 28953), (104, 28980), (143, 29079), (192, 29238), (237, 29418), (244, 29442), (271, 29538), (283, 29574), (295, 29613), (298, 29622), (306, 29655), (316, 29694), (334, 29739), (351, 29790), (361, 29841), (363, 29850), (380, 29919), (410, 29994), (426, 30039), (429, 30054), (469, 30189), (492, 30243), (499, 30264), (509, 30297), (530, 30342), (551, 30396), (563, 30423), (583, 30480), (590, 30501), (614, 30543), (625, 30582), (642, 30642), (728, 30882), (737, 30918), (751, 30951), (789, 31020),