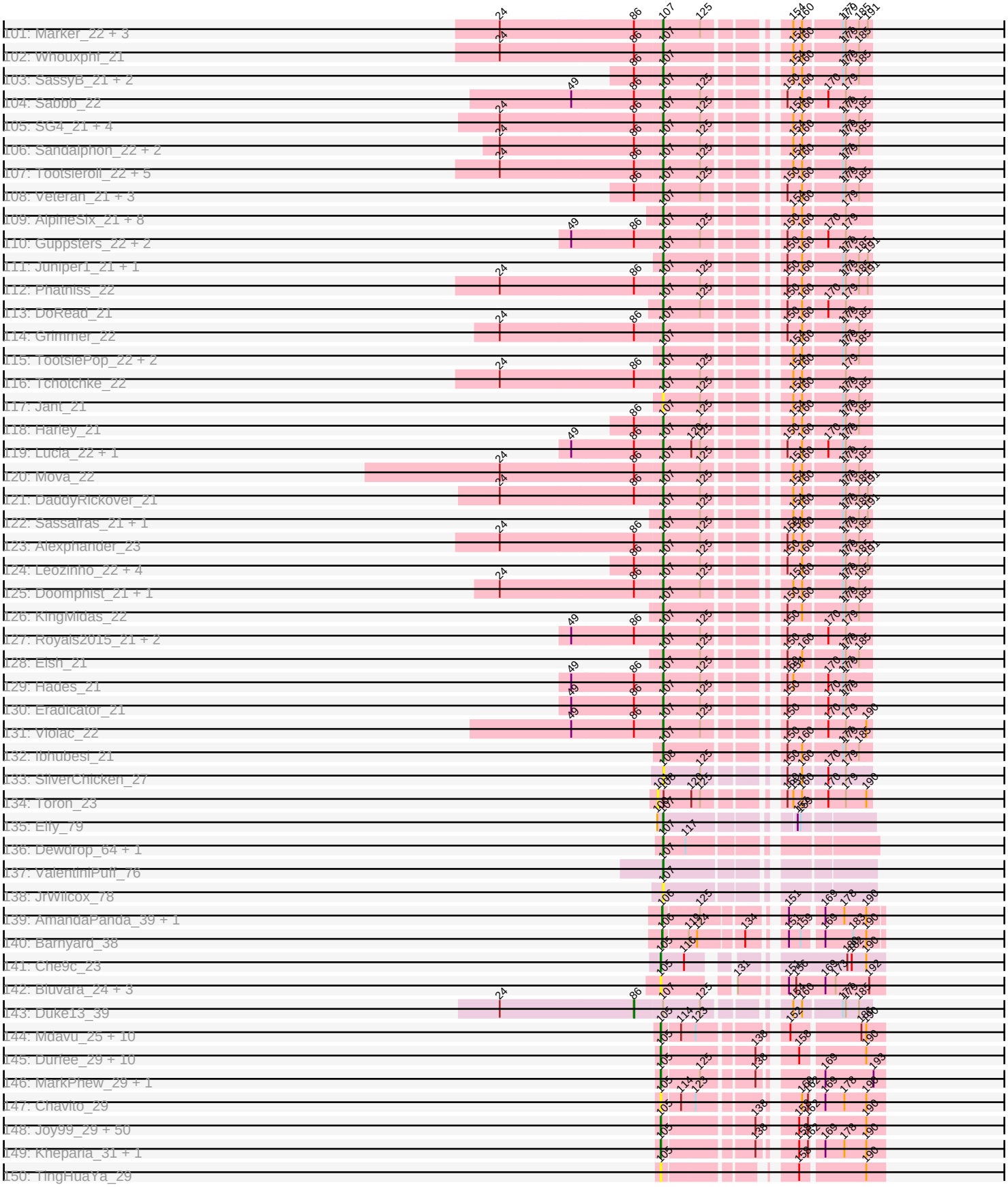
Pham 347033


1: Maco6_24 + 3
2: LongHai_27 + 1
3: Indulamithi_30
4: Farewell_23 + 1
5: MalagasyRose_29
6: JustASigh_23
7: WST1_23 + 1
8: Applejacks_27
9: Widow_27 + 1
10: Trine_26
11: Opyo_26
12: Gustav_27
13: Morrissey_28
14: Mandia_27
15: Turuncu_51
16: Flapper_51
17: GRU1_36 + 1
18: GrootJr_48 + 10
19: GTE8_35
20: Outis_48 + 2
21: Arti_46
22: Kabluna_50
23: NosilaM_50
24: Buggaboo_48 + 1
25: Commandaria_47
26: Bonum_50
27: RedRaider_54
28: Skysand_49 + 4
29: IDyn_47 + 3
30: BiPauneto_48 + 3
31: NadineRae_46
32: HomeFry_51 + 3
33: GMA7_25
34: Amore2_35 + 2
35: GTE7_25
36: BillyBobJr_36 + 6
37: Diabla_34
38: Jellybones_35
39: Msay19_36 + 1
40: Beaver_35
41: Teal_32 + 24
42: Gsput1_27
43: Thimann_29 + 1
44: RavenCo17_27
45: Archimedes_28
46: Jumbo_27
47: Parada_28 + 13
48: DelRio_29
49: Pimento_28
50: Daredevil_39 + 1

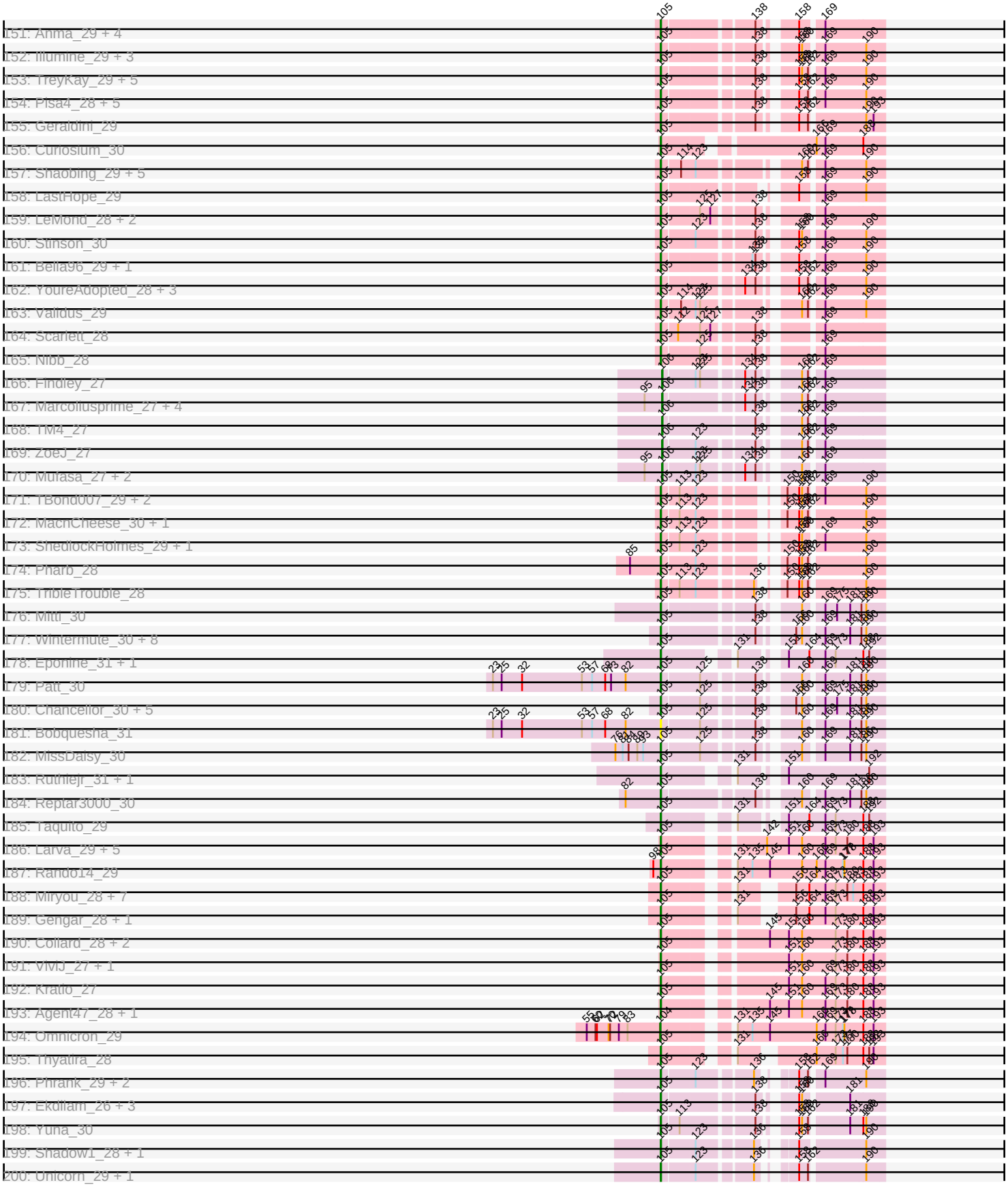
Pham 347033


51: ODay_36
52: Getalong_33 + 3
53: ShawBrad_32 + 9
54: BENtherdunthat_33 + 1
55: LithiMcQueen_31
56: Kamaru_32 + 2
57: Kenna_31 + 1
58: Skog_190
59: Pupper_128 + 2
60: Meyran_30
61: Ewald_31
62: Nycelrae_32
63: Manlisa_33
64: BabyMoney_30
65: Phishy_31
66: Vordon_32
67: Dogfish_31
68: Sampudon_34 + 7
69: Yikes_35 + 1
70: Astralis_32 + 10
71: Sadboi_35 + 2
72: Aaravos_31 + 3
73: BirthdayBoy_35
74: Rukungu_34
75: Patos_35 + 1
76: GOATification_35 + 1
77: Erutan_34 + 2
78: Rota_33
79: DaviePasture_34
80: ParvusTarda_34
81: Zany_33
82: Lambo_34
83: Alephilan_31
84: Lila22_33
85: DumpsterDude_24
86: Sprinklemunch_23
87: MakCheese_25
88: Zodiarian_23
89: Heinz_28
90: LordVader_22
91: ByChance_21 + 21
92: Sparkdehilly_21 + 5
93: Drago_22 + 90
94: Chevrolet_21 + 1
95: Che8_22 + 1
96: EmiMonkey_21 + 8
97: Daenerys_21 + 18
98: Piper2020_22 + 3
99: Nitzel_22 + 4
100: Frankie_22

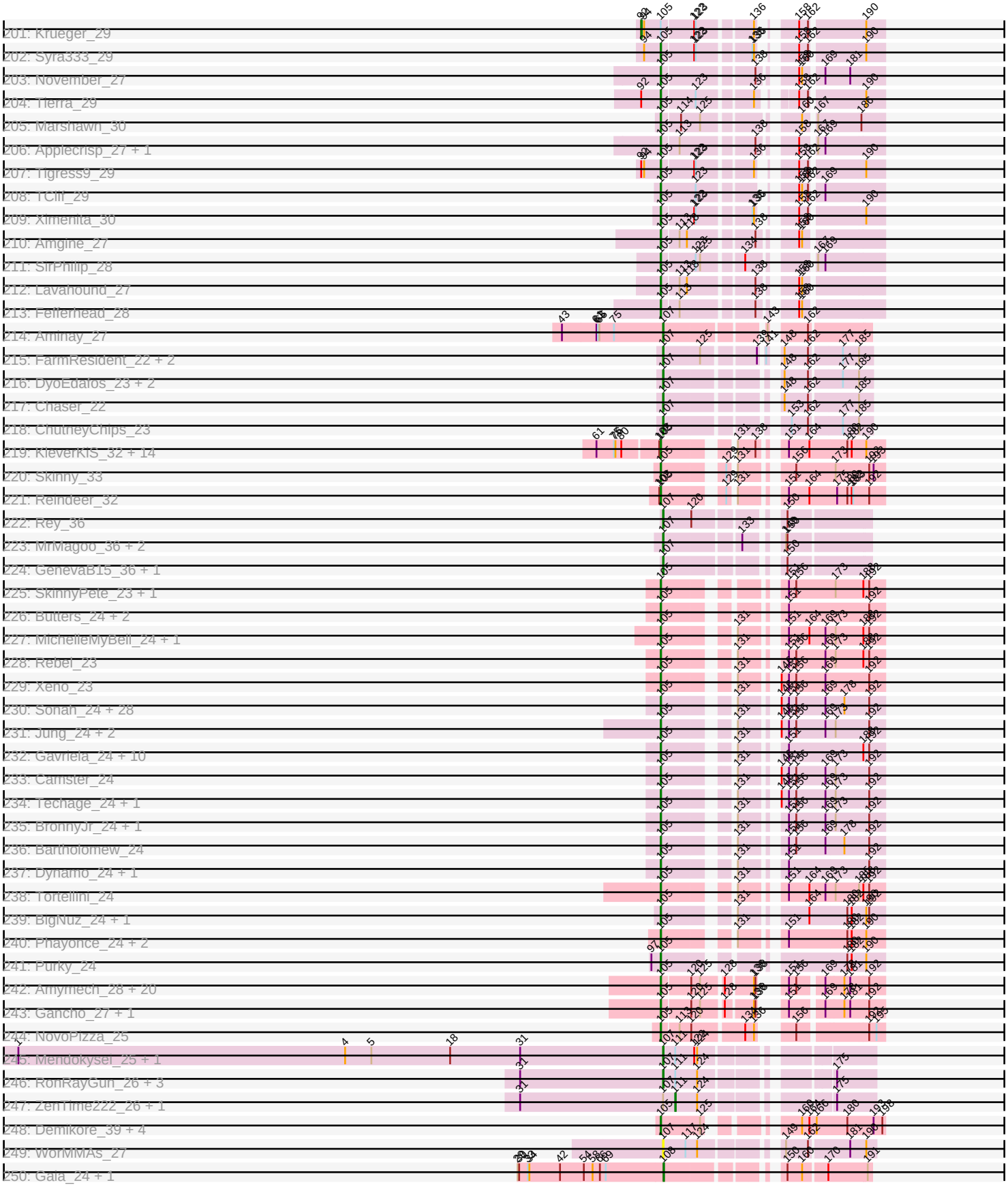
Pham 347033


101: Marker_22 + 3
102: Whouxphi_21
103: SassyB_21 + 2
104: Sabbb_22
105: SG4_21 + 4
106: Sandalphon_22 + 2
107: Tootsieroll_22 + 5
108: Veteran_21 + 3
109: AlpineSix_21 + 8
110: Guppsters_22 + 2
111: Juniper1_21 + 1
112: Phatniss_22
113: DoRead_21
114: Grimmer_22
115: TootsiePop_22 + 2
116: Tchotchke_22
117: Jant_21
118: Harley_21
119: Lucia_22 + 1
120: Mova_22
121: DaddyRickover_21
122: Sassafras_21 + 1
123: Alexphander_23
124: Leozinho_22 + 4
125: Doomphist_21 + 1
126: KingMidas_22
127: Royals2015_21 + 2
128: Elsh_21
129: Hades_21
130: Eradicator_21
131: Violac_22
132: Ibnubesi_21
133: SilverChicken_27
134: Toron_23
135: Elly_79
136: Dewdrop_64 + 1
137: ValentinnPutt_76
138: JrWilcox_78
139: AmandaPanda_39 + 1
140: Barnyard_38
141: Che9c_23
142: Bluvara_24 + 3
143: Duke13_39
144: Mdavu_25 + 10
145: Dunlee_29 + 10
146: MarkPhew_29 + 1
147: Chavito_29
148: Joy99_29 + 50
149: Kheparia_31 + 1
150: YingHuaYa_29

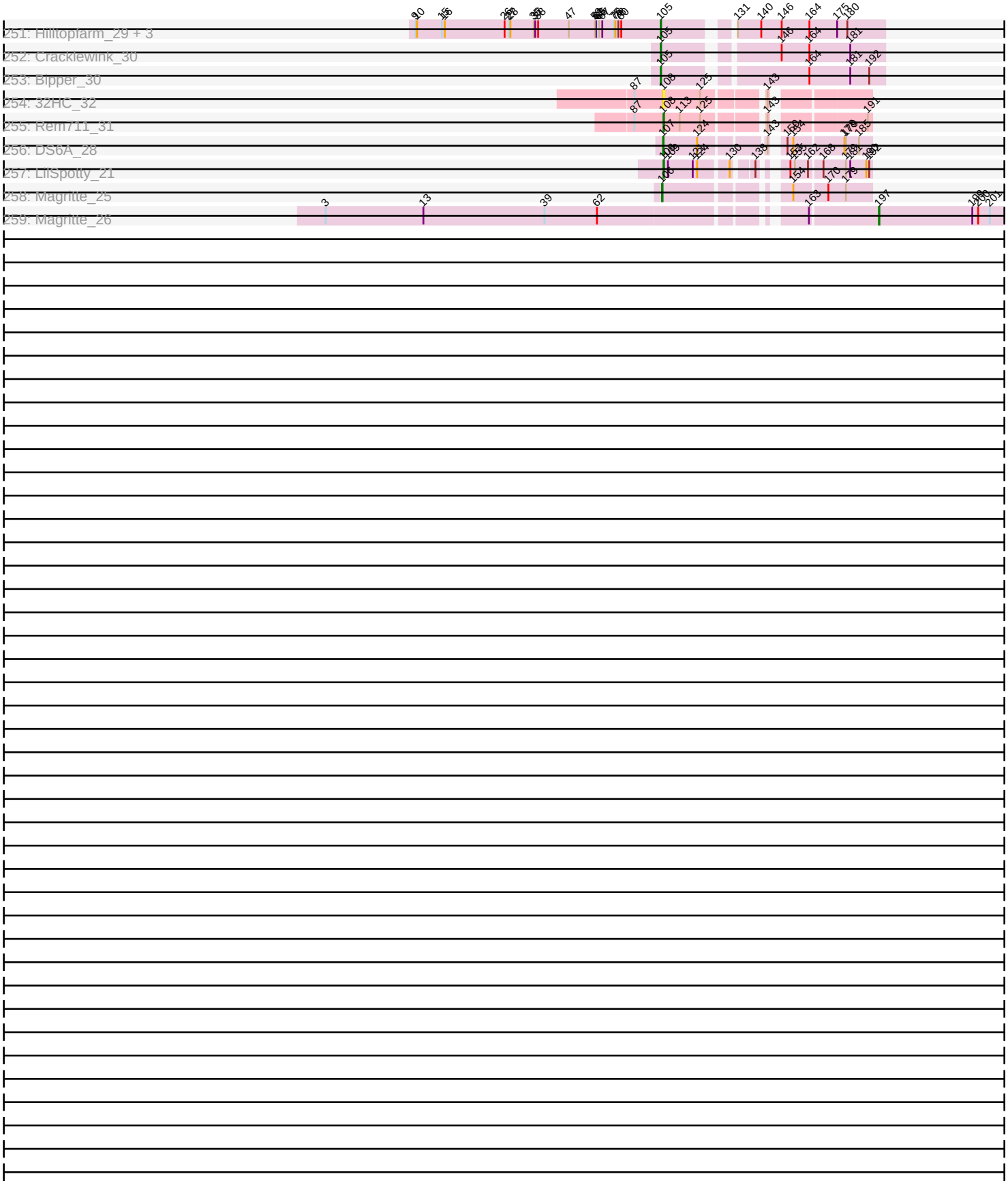
Pham 347033


151: Anma_29 + 4
152: Illumine_29 + 3
153: TreyKay_29 + 5
154: Pisa4_28 + 5
155: Geraldini_29
156: Curiosium_30
157: Shaobing_29 + 5
158: LastHope_29
159: LeMond_28 + 2
160: Stinson_30
161: Bella96_29 + 1
162: YoureAdopted_28 + 3
163: Validus_29
164: Scarlett_28
165: Nibb_28
166: Findley_27
167: Marcollusprime_27 + 4
168: TM4_27
169: ZoeJ_27
170: Mufasa_27 + 2
171: TBond007_29 + 2
172: MacnCheese_30 + 1
173: SherlockHolmes_29 + 1
174: Pharb_28
175: TripleTrouble_28
176: Mitti_30
177: Wintermute_30 + 8
178: Eponine_31 + 1
179: Patt_30
180: Chancellor_30 + 5
181: Bobquesha_31
182: MissDaisy_30
183: Ruthlejr_31 + 1
184: Reptar3000_30
185: Taquito_29
186: Larva_29 + 5
187: Rando14_29
188: Miryou_28 + 7
189: Gengar_28 + 1
190: Collard_28 + 2
191: VivJ_27 + 1
192: Kratio_27
193: Agent47_28 + 1
194: Omnicron_29
195: Thyatira_28
196: Phrank_29 + 2
197: Ekuliam_26 + 3
198: Yuna_30
199: Shadow1_28 + 1
200: Unicorn_29 + 1

Pham 347033


201: Krueger_29
202: Syra333_29
203: November_27
204: Tierra_29
205: Marshawn_30
206: Applecrisp_27 + 1
207: Tigress9_29
208: TCliff_29
209: Ximenita_30
210: Amgine_27
211: SirPhilip_28
212: Lavahound_27
213: Fellerhead_28
214: Aminay_27
215: FarmResident_22 + 2
216: DyoEdaros_23 + 2
217: Chaser_22
218: ChutneyChips_23
219: KleverKIS_32 + 14
220: Skinny_33
221: Reindeer_32
222: Rey_36
223: MrMagoo_36 + 2
224: GenevaB15_36 + 1
225: SkinnyPete_23 + 1
226: Butters_24 + 2
227: MichelleMyBell_24 + 1
228: Rebel_23
229: Xeno_23
230: Sonah_24 + 28
231: Jung_24 + 2
232: Gavriela_24 + 10
233: Camster_24
234: Techage_24 + 1
235: BronnyJr_24 + 1
236: Bartholomew_24
237: Dynamo_24 + 1
238: Tortellini_24
239: BigNuz_24 + 1
240: Phayonce_24 + 2
241: Purky_24
242: Amymech_28 + 20
243: Gancho_27 + 1
244: NovoPizza_25
245: Mendokusei_25 + 1
246: RonRayGun_26 + 3
247: ZenTime222_26 + 1
248: Demikore_39 + 4
249: WorMMAs_27
250: Gaia_24 + 1

Pham 347033


251: Hilltopfarm_29 + 3
252: Cracklewink_30
253: Bipper_30
254: 32HC_32
255: Rem711_31
256: DS6A_28
257: LilSpotty_21
258: Magritte_25
259: Magritte_26

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 347033 Report

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

Pham number 347033 has 838 members, 76 are drafts.

Phages represented in each track:
- Track 1 : Maco6_24, FF47_26, Muddy_26, 8UZL_26
- Track 2 : LongHai_27, Salvus_27
- Track 3 : Indlulamithi_30
- Track 4 : Farewell_23, Sparky_23
- Track 5 : MalagasyRose_29
- Track 6 : JustASigh_23
- Track 7 : WST1_23, IdentityCrisis_22
- Track 8 : Applejacks_27
- Track 9 : Widow_27, Puppers_27
- Track 10 : Trine_26
- Track 11 : Upyo_26
- Track 12 : Gustav_27
- Track 13 : Morrissey_28
- Track 14 : Mahdia_27
- Track 15 : Turuncu_51
- Track 16 : Flapper_51
- Track 17 : GRU1_36, GTE5_38
- Track 18 : GrootJr_48, Emianna_46, Kurt_46, Tracker_46, NatB6_46, KidneyBean_46, Phomeo_45, Foxboro_47, NovumRegina_46, Wheezy_46, Jifall16_45
- Track 19 : GTE8_35
- Track 20 : Outis_48, MerCougar_48, StarStruck_48
- Track 21 : Arti_46
- Track 22 : Kabluna_50
- Track 23 : NosilaM_50
- Track 24 : Buggaboo_48, SuperSulley_48
- Track 25 : Commandaria_47
- Track 26 : Bonum_50
- Track 27 : RedRaider_54
- Track 28 : Skysand_49, Patio_50, Ennea_53, Lollipop1437_52, Float294_49
- Track 29 : IDyn_47, HubbaBubba_43, Marietta_48, WhoseManz_47
- Track 30 : BiPauneto_48, Sukkupi_47, Pemberton_48, Yndexa_47
- Track 31 : NadineRae_46
- Track 32 : HomeFry_51, Pleakley_54, Scuba_54, Fury_54
- Track 33 : GMA7_25
- Track 34 : Amore2_35, HayZem_34, Austin_35
- Track 35 : GTE7_25

• Track 36 : BillyBobJr_36, Boneham_35, CinnamonToast_36, John316_35, Butterball_35, FelixAlejandro_36, BirksAndSocks_35
• Track 37 : Diabla_34
• Track 38 : Jellybones_35
• Track 39 : Msay19_36, Poland_36
• Track 40 : Beaver_35
• Track 41 : Teal_32, Minos_33, Shelley_32, Harambe_32, Anamika_32, Berries_32, Neoevie_32, MrWormie_32, Lidong_32, Lahirium_32, Bianmat_32, Damp_32, Newt_33, Luker_33, Sticker17_32, Hail2Pitt_32, Jams_32, Jormungandr_32, Kaseim_32, Woes_32, Hello_32, Nimi13_32, Guillaume_32, GalacticEye_32, Charianelly_32
• Track 42 : Gsput1_27
• Track 43 : Thimann_29, Suerte_27
• Track 44 : RavenCo17_27
• Track 45 : Archimedes_28
• Track 46 : Jumbo_27
• Track 47 : Parada_28, Nadeem_28, Ayotoya_28, Hamood_28, Brylie_28, SussRoloMann_28, Mulch_28, NancyRae_28, WheatThin_28, BetterKatz_28, Bock_28, Francois_28, GrandSlam_28, Chop_28
• Track 48 : DelRio_29
• Track 49 : Pimento_28
• Track 50 : Daredevil_39, Towmatter_38
• Track 51 : ODay_36
• Track 52 : Getalong_33, Whitney_33, Crater_30, Budski_32
• Track 53 : ShawBrad_32, Horus_32, Phistory_33, Asapag_32, MortyNRick_31, Leroy_32, Periwinkle_34, Phabuloso_31, BearBQ_31, Kuwabara_31
• Track 54 : BENtherdunthat_33, BotCity_33
• Track 55 : LitninMcQueen_31
• Track 56 : Kamaru_32, Ecliptus_35, Holliday_32
• Track 57 : Kenna_31, Lutum_32
• Track 58 : Skog_190
• Track 59 : Pupper_128, SCentae_127, CherryTomatoes_127
• Track 60 : Meyran_30
• Track 61 : Ewald_31
• Track 62 : Nyceirae_32
• Track 63 : Manilisa_33
• Track 64 : BabyMoney_30
• Track 65 : Phishy_31
• Track 66 : Vordorf_32
• Track 67 : Dogfish_31
• Track 68 : Sampudon_34, Pywacket_33, MoiGyank_36, Gibbin_35, Mima20_32, Nettle_35, Jalebi_33, DoobyDoo_33
• Track 69 : Yikes_35, LavAbarElk_32
• Track 70 : Astralis_32, Rumi_34, Charminar_32, Riduram_32, Jamemuya19_32, NovaSharks_34, Alyssamiracle_35, RazorC_33, Avian_32, Genamy16_35, Stormer_33
• Track 71 : Sadboi_35, GretelLyn_34, OtterstedtS21_34
• Track 72 : Aaravos_31, Apeppi_31, Tillicus_33, LuckyLeo_33
• Track 73 : BirthdayBoy_35
• Track 74 : Rukungu_34
• Track 75 : Patos_35, NorManre_35
• Track 76 : GOATification_35, Fulcrum_35
• Track 77 : Erutan_34, Ranch_34, Wojtek_33

• Track 78 : Rota_33
• Track 79 : DaviePasture_34
• Track 80 : ParvusTarda_34
• Track 81 : Zany_33
• Track 82 : Lambo_34
• Track 83 : Alephilan_31
• Track 84 : Lila22_33
• Track 85 : DumpsterDude_24
• Track 86 : Sprinklemunch_23
• Track 87 : MakCheese_25
• Track 88 : Zodiariah_23
• Track 89 : Heinz_28
• Track 90 : LordVader_22
• Track 91 : ByChance_21, BobaPhett_21, Cabrinians_21, FreddyB_21, Priscilla_21, Lizziana_21, Mattes_21, DosHalletts_22, Yorick_21, Jarcob_21, Gorge_21, OlympiaSaint_21, James_21, Nivrat_21, ShowerHandel_21, Burwell21_21, LilMoolah_21, NormanBulbieJr_21, ShiLan_21, Zizzle_21, Martik_21, Spoonbill_21
• Track 92 : Sparkdehlily_21, Philus_21, TDanisky_21, Saal_21, DRBy19_21, SwagPigglett_21
• Track 93 : Drago_22, Karhdo_21, KingJulian_21, Enby_22, Emma_21, Latretium_22, MilleniumForce_22, Ruby_21, Job42_24, Plumbus_22, MisterCuddles_21, Medindi_21, Galactic_21, BodEinwohner17_21, Brushbloom_22, Taj_21, Rita_21, Wee_22, Donkeykong_21, Optimus_40, Ramsey_22, EleanorGeorge_21, VRedHorse_21, Moonbeam_22, SeaLumen_22, Maravista_21, Fruitloop_21, CaptainTrips_22, Filuzino_21, XFactor_21, Doomslug_23, Rockne_21, Blexus_21, LittleE_42, Firehouse51_22, LunaBlu_22, IMpilo_21, Fastidio_21, NewHope4_23, Hlubikazi_21, MinionDave_22, Whatsapiecost_21, JalFarm20_23, Ovechkin_21, Hegedechwinu_22, Hamulus_21, Kimberlium_23, RedBird_21, Omega_41, Tweety_22, Dante_21, Bobi_23, PhesterPhotato_21, Polo2Bam_23, IbOuu_21, PMC_21, BuzzLyseyear_23, DillTech15_21, Corium_21, Mwanjiwa_21, Gonephishing_37, Batiatus_21, Mutaforma13_21, Starcevich_22, Lorde_22, Juice456_23, SuperGrey_22, Mandlovu_21, Phalconet_21, Topiatin_23, KristaRAM_22, Aubs_21, IrishSherpFalk_22, Flathead_22, DLane_21, Beanstalk_22, Llij_21, Seagreen_22, QuickMath_22, WillSterrel_22, Blarby_29, Melissauren88_21, Strokeseat_21, Beakin_22, Cheesepuff_23, UncleRicky_24, DeadP_21, MulchExplorer_23, Girr_21, Enzomatic_23, PatoPoderoso_21
• Track 94 : Chevrolet_21, ArcusAngelus_21
• Track 95 : Che8_22, SimranZ1_22
• Track 96 : EmiMonkey_21, PhlipPhlop_21, Totinger_22, Vivum_21, LittleShirley_22, Slim_22, Rialto_23, Emmaloid_22, Peridot_22
• Track 97 : Daenerys_21, Geralt_21, BlueCrab_21, Nimbo_21, PHappiness_21, Zerg_21, Polka14_22, Empress_22, JoeyJr_21, Quico_22, Scottish_22, Deb65_21, Pacc40_21, Doug_22, Florinda_21, Dorothy_21, OldBen_21, RockyHorror_22, Girafales_22
• Track 98 : Piper2020_22, Aloeri_22, DocMcStuffins_22, ChickenDinner_22
• Track 99 : Nitzel_22, Fancypants_21, Ardmore_21, Chuckly_21, StAnnes_21
• Track 100 : Frankie_22
• Track 101 : Marker_22, Cornucopia_22, DaWorst_23, Spartacus_22
• Track 102 : Whouxphf_21
• Track 103 : SassyB_21, PopTart_21, Mozy_22
• Track 104 : Sabbb_22
• Track 105 : SG4_21, Wanda_42, DotProduct_21, Wachhund_21, BAKA_39
• Track 106 : Sandalphon_22, Byougenkin_21, Minnie_22

• Track 107 : Tootsieroll_22, Bubbles123_22, Spikelee_22, Stap_22, Krakatau_22, Radiance_21
• Track 108 : Veteran_21, Phasih_22, Boomer_22, GUmbie_21
• Track 109 : AlpineSix_21, Nichirin_21, Seabastian_21, Ochi17_21, Jinglebell_20, Modragons_21, Oksu_22, OfUltron_21, Llama_21
• Track 110 : Guppsters_22, OwlsT2W_23, Gandalph_21
• Track 111 : Juniper1_21, Mahavrat_21
• Track 112 : Phatniss_22
• Track 113 : DoRead_21
• Track 114 : Grimmer_22
• Track 115 : TootsiePop_22, Awesomesauce_22, Misha28_22
• Track 116 : Tchotchke_22
• Track 117 : Jant_21
• Track 118 : Harley_21
• Track 119 : Lucia_22, RitaG_21
• Track 120 : Mova_22
• Track 121 : DaddyRickover_21
• Track 122 : Sassafras_21, Inventum_21
• Track 123 : Alexphander_23
• Track 124 : Leozinho_22, Mantra_21, DirtMcgirt_22, GigiOuiOui_21, SiSi_21
• Track 125 : Doomphist_21, Poenanya_21
• Track 126 : KingMidas_22
• Track 127 : Royals2015_21, Minerva_42, Leperchaun_21
• Track 128 : Eish_21
• Track 129 : Hades_21
• Track 130 : Eradicator_21
• Track 131 : Violac_22
• Track 132 : Ibhubesi_21
• Track 133 : SilverChicken_27
• Track 134 : Toron_23
• Track 135 : Elfy_79
• Track 136 : Dewdrop_64, Leaf_64
• Track 137 : ValentiniPuff_76
• Track 138 : JrWilcox_78
• Track 139 : AmandaPanda_39, DrLupo_40
• Track 140 : Barnyard_38
• Track 141 : Che9c_23
• Track 142 : Bluvara_24, Okabe_23, Impisi_24, GaloreK_24
• Track 143 : Duke13_39
• Track 144 : Mdavu_25, Teejan_25, Trice_25, Enkosi_25, Nikao_25, LilPharaoh_25, Biglebops_25, Torres_25, Amelie_25, SgtBeansprout_25, Nutello_25
• Track 145 : Durfee_29, Beezoo_29, Boiiii_29, Asayake_29, CaseJules_29, Piatt_29, BEEST_29, Blizzard_29, Hyperbowlee_29, Padfoot_29, ShiaSurprise_29
• Track 146 : MarkPhew_29, Chris_28
• Track 147 : Chavito_29
• Track 148 : Joy99_29, Adonis_29, HedwigODU_29, Sulley_29, Dalmuri_29, Inky_29, Anaya_30, BGlluviae_29, Capricorn_29, Jeckyll_29, CallaLilly_29, MeaningOfLife_29, Veliki_29, Zabiza_29, Lokum_29, Ramen_29, Rapunzel97_29, Pokerus_28, Megsy_29, Belladonna_29, CheetoDust_29, Peel_29, Angelica_29, Padpat_29, Ganymede_30, MacKat_29, AlishaPH_29, Twitch_29, Emerson_29, BarrelRoll_29, Adephagia_29, Deby_29, Llorens_29, Apocalypse_29, BaghaKamala_29, JAWS_29, Atiba_29, Jarvi_29, Spock_29, QuincyRose_28, Tachez_29, CrimD_29, Slimphazie_29, CREW_29, ActinUp_29, Jayhawk_29,

Rosmarinus_29, Topper_29, Homura_29, Clipper_29, Lunahalos_29
• Track 149 : Kheparia_31, Bern_29
• Track 150 : TingHuaYa_29
• Track 151 : Anma_29, DrHayes_29, Urkel_29, SamuelLPlaqson_29, TiniBug_29
• Track 152 : Illumine_29, Devera_29, Dole_29, LaterM_29
• Track 153 : TreyKay_29, TaiwanKao_30, LindNT_29, Murucutumbu_29, Prithvi_29, Ageofdapage_29
• Track 154 : Pisa4_28, Zavala_29, Mynx_29, TruffulaTree_29, Pisa1_28, Tiri_29
• Track 155 : Geraldini_29
• Track 156 : Curiosium_30
• Track 157 : Shaobing_29, McMater_29, Dartin_29, Peanam_29, Richo_29, Niklas_29
• Track 158 : LastHope_29
• Track 159 : LeMond_28, Oscar_28, KiSi_28
• Track 160 : Stinson_30
• Track 161 : Bella96_29, DartGoblin_29
• Track 162 : YoureAdopted_28, Efra2_29, Guanica15_29, Yunkel11_29
• Track 163 : Validus_29
• Track 164 : Scarlett_28
• Track 165 : Nibb_28
• Track 166 : Findley_27
• Track 167 : Marcoliusprime_27, Milly_27, Strobilo_27, DismalStressor_27, DismalFunk_27
• Track 168 : TM4_27
• Track 169 : ZoeJ_27
• Track 170 : Mufasa_27, BoostSeason_27, Doughnut_27
• Track 171 : TBond007_29, Keshu_30, Pixie_29
• Track 172 : MacnCheese_30, Hurricane_30
• Track 173 : ShedlockHolmes_29, Lea83_29
• Track 174 : Pharb_28
• Track 175 : TribleTrouble_28
• Track 176 : Mitti_30
• Track 177 : Wintermute_30, Nolwazi_31, YasnayaPolyana_30, Malthus_31, JF1_30, Y10_30, Fionnbharth_30, Kraw_30, Y2_30
• Track 178 : Eponine_31, SamScheppers_29
• Track 179 : Patt_30
• Track 180 : Chancellor_30, Qhanda_31, Lebo14_30, Slarp_30, Cheetobro_30, OmniCritical_30
• Track 181 : Bobquesha_31
• Track 182 : MissDaisy_30
• Track 183 : Ruthiejr_31, Juliette_32
• Track 184 : Reptar3000_30
• Track 185 : Taquito_29
• Track 186 : Larva_29, Dadosky_29, Neighly_29, Psycho_29, Edugator_28, AlleyCat_29
• Track 187 : Rando14_29
• Track 188 : Miryou_28, Leston_28, SoSeph_28, Paola_28, Guillsminger_28, OkiRoe_28, Waterfoul_28, Heftyboy_28
• Track 189 : Gengar_28, Feyre_28
• Track 190 : Collard_28, BananenDer11_28, DoubleChamp_28
• Track 191 : ViviJ_27, InvictusManeo_28
• Track 192 : Kratio_27
• Track 193 : Agent47_28, LilDirt_27

• Track 194 : Omnicron_29
• Track 195 : Thyatira_28
• Track 196 : Phrank_29, Bryler_29, Cain_29
• Track 197 : Ekdilam_26, Amohnition_28, Hammy_28, DarthP_28
• Track 198 : Yuna_30
• Track 199 : Shadow1_28, Sunflower1121_28
• Track 200 : Unicorn_29, PhelpsODU_29
• Track 201 : Krueger_29
• Track 202 : Syra333_29
• Track 203 : November_27
• Track 204 : Tierra_29
• Track 205 : Marshawn_30
• Track 206 : Applecrisp_27, Ellie_26
• Track 207 : Tigress9_29
• Track 208 : TClif_29
• Track 209 : Ximenita_30
• Track 210 : Amgine_27
• Track 211 : SirPhilip_28
• Track 212 : Lavahound_27
• Track 213 : Fefferhead_28
• Track 214 : Aminay_27
• Track 215 : FarmResident_22, Quby_22, Douge_22
• Track 216 : DyoEdafos_23, Bromden_24, Kropertea_22
• Track 217 : Chaser_22
• Track 218 : ChutneyChips_23
• Track 219 : KleverKiS_32, TyDawg_32, Glaske16_33, FreakyGoo_33, LilhomieP_31, Dulcita_33, Bricole_32, Auspice_32, Bongo_32, Diminimus_33, SlimJimmy_31, TpudiCK_33, Izel_33, IPhane7_32, PegLeg_32
• Track 220 : Skinny_33
• Track 221 : Reindeer_32
• Track 222 : Rey_36
• Track 223 : MrMagoo_36, GardenSalsa_36, Estes_37
• Track 224 : GenevaB15_36, Aziz_36
• Track 225 : SkinnyPete_23, Panchino_23
• Track 226 : Butters_24, Rubeelu_24, Kevin1_24
• Track 227 : MichelleMyBell_24, Raymond7_23
• Track 228 : Rebel_23
• Track 229 : Xeno_23
• Track 230 : Sonah_24, Chubbello_24, Ksquared_24, Phegasus_24, Bhagsy_24, Brusacoram_24, Jebeks_24, Etoile_24, Zilizebeth_24, Venti_24, Polkaroo_24, Babsiella_24, Fishburne_24, Necropolis_24, Majeke_24, HUHilltop_24, Vidya_24, FirstPlacePfu_24, HC_24, Mangethe_24, Juniormint_24, Langerak_24, PeanutPie_24, StevieRay_24, Bunnies_24, Donovan_24, Thespis_24, Malithi_24, Arib1_24
• Track 231 : Jung_24, Atcoo_24, Xavia_24
• Track 232 : Gavriela_24, Andies_23, Willsammy_24, CactusJack_24, StressBall_24, Glaske_24, Shweta_23, Megiddo_24, KilKor_24, Phalm_24, Scitech_23
• Track 233 : Camster_24
• Track 234 : Techage_24, Kari_24
• Track 235 : BronnyJr_24, Phrann_23
• Track 236 : Bartholomew_24
• Track 237 : Dynamo_24, Phineas_24
• Track 238 : Tortellini_24

• Track 239 : BigNuz_24, Nazo_24
• Track 240 : Phayonce_24, Sbash_23, ThulaThula_24
• Track 241 : Purky_24
• Track 242 : Amymech_28, Webster2_28, Giles_28, LilHazelnut_28, Forge_28, Kinbote_28, BloominB_28, Hadrien_28, Amochick_28, Evanesce_28, HH92_28, Wishmaker_28, Ein37_28, Daegal_29, Dewey_28, Luke_28, Hail_28, Ubuntu_28, DeepSoil15_28, OBUpride_28, Luna22_28
• Track 243 : Gancho_27, Gravaillia_28
• Track 244 : NovoPizza_25
• Track 245 : Mendokysei_25, Nette_27
• Track 246 : RonRayGun_26, Ibrahim_26, Nairb_26, Whitty_26
• Track 247 : ZenTime222_26, Bernal13_26
• Track 248 : Demikore_39, SuperSonics_38, Patience_39, Labelle_38, Madruga_37
• Track 249 : WorMMAs_27
• Track 250 : Gaia_24, Nebkiss_25
• Track 251 : Hilltopfarm_29, Faiyaz_29, AuntGwenStacy_29, Typha_29
• Track 252 : Cracklewink_30
• Track 253 : Bipper_30
• Track 254 : 32HC_32
• Track 255 : Rem711_31
• Track 256 : DS6A_28
• Track 257 : LilSpotty_21
• Track 258 : Magritte_25
• Track 259 : Magritte_26

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

The start number called the most often in the published annotations is 105, it was called in 433 of the 762 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• 8UZL_26, Aaravos_31, ActinUp_29, Adephagia_29, Adonis_29, Agent47_28, Ageofdapage_29, Alephilan_31, AlishaPH_29, AlleyCat_29, Alyssamiracle_35, Amelie_25, Amgine_27, Amochick_28, Amohnition_28, Amymech_28, Anamika_32, Anaya_30, Andies_23, Angelica_29, Anma_29, Apeppi_31, Apocalypse_29, Applecrisp_27, Archimedes_28, Arib1_24, Arti_46, Asayake_29, Astralis_32, Atcoo_24, Atiba_29, AuntGwenStacy_29, Auspice_32, Avian_32, BEEST_29, BGlluviae_29, Babsiella_24, BaghaKamala_29, BananenDer11_28, BarrelRoll_29, Bartholomew_24, Beaver_35, Beezoo_29, Bella96_29, Belladonna_29, Bern_29, Berries_32, Bhagsy_24, BiPauneto_48, Bianmat_32, BigNuz_24, Biglebops_25, BillyBobJr_36, Bipper_30, BirksAndSocks_35, BirthdayBoy_35, Blizzard_29, BloominB_28, Bluvara_24, Bobquesha_31, Boiiii_29, Boneham_35, Bongo_32, Bonum_50, Bricole_32, BronnyJr_24, Brusacoram_24, Bryler_29, Buggaboo_48, Bunnies_24, Butterball_35, Butters_24, CREW_29, CactusJack_24, Cain_29, CallaLilly_29, Camster_24, Capricorn_29, CaseJules_29, Chancellor_30, Charianelly_32, Charminar_32, Chavito_29, Che9c_23, CheetoDust_29, Cheetobro_30, CherryTomatoes_127, Chris_28, Chubbello_24, CinnamonToast_36, Clipper_29, Collard_28, Commandaria_47, Cracklewink_30, CrimD_29, Curiosium_30, Dadosky_29, Daegal_29, Dalmuri_29, Damp_32, DartGoblin_29, DarthP_28, Dartin_29, DaviePasture_34, Deby_29, DeepSoil15_28, Demikore_39,

Devera_29, Dewey_28, Diabla_34, Diminimus_33, Dole_29, Donovan_24, DoobyDoo_33, DoubleChamp_28, DrHayes_29, Dulcita_33, Durfee_29, Dynamo_24, Edugator_28, Efra2_29, Ein37_28, Ekdilam_26, Ellie_26, Emerson_29, Emianna_46, Enkosi_25, Ennea_53, Eponine_31, Erutan_34, Etoile_24, Evanesce_28, FF47_26, Faiyaz_29, Farewell_23, Fefferhead_28, FelixAlejandro_36, Feyre_28, Fionnbharth_30, FirstPlacePfu_24, Fishburne_24, Flapper_51, Float294_49, Forge_28, Foxboro_47, FreakyGoo_33, Fulcrum_35, Fury_54, GOATification_35, GRU1_36, GTE5_38, GTE8_35, GalacticEye_32, GaloreK_24, Gancho_27, Ganymede_30, Gavriela_24, Genamy16_35, Gengar_28, Geraldini_29, Gibbin_35, Giles_28, Glaske16_33, Glaske_24, Gravaillia_28, GretelLyn_34, GrootJr_48, Gsput1_27, Guanica15_29, Guillaume_32, Guillsminger_28, HC_24, HH92_28, HUHilltop_24, Hadrien_28, Hail2Pitt_32, Hail_28, Hammy_28, Harambe_32, HedwigODU_29, Heftyboy_28, Hello_32, Hilltopfarm_29, HomeFry_51, Homura_29, HubbaBubba_43, Hurricane_30, Hyperbowlee_29, IDyn_47, IPhane7_32, IdentityCrisis_22, Illumine_29, Impisi_24, Inky_29, InvictusManeo_28, Izel_33, JAWS_29, JF1_30, Jalebi_33, Jamemuya19_32, Jams_32, Jarvi_29, Jayhawk_29, Jebeks_24, Jeckyll_29, Jellybones_35, Jifall16_45, John316_35, Jormungandr_32, Joy99_29, Juliette_32, Jumbo_27, Jung_24, Juniormint_24, Kabluna_50, Kari_24, Kaseim_32, Keshu_30, Kevin1_24, Kheparia_31, KiSi_28, KidneyBean_46, KilKor_24, Kinbote_28, KleverKiS_32, Kratio_27, Kraw_30, Ksquared_24, Kurt_46, Labelle_38, Lahirium_32, Lambo_34, Langerak_24, Larva_29, LastHope_29, LaterM_29, LavAbarElk_32, Lavahound_27, LeMond_28, Lea83_29, Lebo14_30, Leston_28, Lidong_32, LilDirt_27, LilHazelnut_28, LilPharaoh_25, Lila22_33, LilhomieP_31, LindNT_29, Llorens_29, Lokum_29, Lollipop1437_52, LongHai_27, LordVader_22, LuckyLeo_33, Luke_28, Luker_33, Luna22_28, Lunahalos_29, MacKat_29, MacnCheese_30, Maco6_24, Madruga_37, Majeke_24, MakCheese_25, MalagasyRose_29, Malithi_24, Malthus_31, Mangethe_24, Marietta_48, MarkPhew_29, Marshawn_30, McMater_29, Mdavu_25, MeaningOfLife_29, Megiddo_24, Megsy_29, MerCougar_48, MichelleMyBell_24, Mima20_32, Minos_33, Miryou_28, MissDaisy_30, Mitti_30, MoiGyank_36, MrWormie_32, Msay19_36, Muddy_26, Murucutumbu_29, Mynx_29, NadineRae_46, NatB6_46, Nazo_24, Necropolis_24, Neighly_29, Neoevie_32, Nettle_35, Newt_33, Nibb_28, Nikao_25, Niklas_29, Nimi13_32, Nolwazi_31, NorManre_35, NosilaM_50, NovaSharks_34, November_27, NovoPizza_25, NovumRegina_46, Nutello_25, OBUpride_28, Okabe_23, OkiRoe_28, OmniCritical_30, Oscar_28, OtterstedtS21_34, Outis_48, Padfoot_29, Padpat_29, Panchino_23, Paola_28, ParvusTarda_34, Patience_39, Patio_50, Patos_35, Patt_30, Peanam_29, PeanutPie_24, Peel_29, PegLeg_32, Pemberton_48, Phalm_24, Pharb_28, Phayonce_24, Phegasus_24, PhelpsODU_29, Phineas_24, Phomeo_45, Phrank_29, Phrann_23, Piatt_29, Pisa1_28, Pisa4_28, Pixie_29, Pleakley_54, Pokerus_28, Poland_36, Polkaroo_24, Prithvi_29, Psycho_29, Pupper_128, Purky_24, Pywacket_33, Qhanda_31, QuincyRose_28, Ramen_29, Ranch_34, Rando14_29, Rapunzel97_29, Raymond7_23, RazorC_33, Rebel_23, RedRaider_54, Reindeer_32, Reptar3000_30, Richo_29, Riduram_32, Rosmarinus_29, Rota_33, Rubeelu_24, Rukungu_34, Rumi_34, Ruthiejr_31, SCentae_127, Sadboi_35, Salvus_27, SamScheppers_29, Sampudon_34, SamuelLPlaqson_29, Sbash_23, Scarlett_28, Scitech_23, Scuba_54, SgtBeansprout_25, Shadow1_28, Shaobing_29, ShedlockHolmes_29, Shelley_32, ShiaSurprise_29, Shweta_23, SirPhilip_28, SkinnyPete_23, Skinny_33, Skog_190, Skysand_49, Slarp_30, SlimJimmy_31, Slimphazie_29, SoSeph_28, Sonah_24, Sparky_23, Spock_29, StarStruck_48, StevieRay_24, Sticker17_32, Stinson_30, Stormer_33, StressBall_24, Sukkupi_47, Sulley_29, Sunflower1121_28, SuperSonics_38, SuperSulley_48, Syra333_29, TBond007_29, TClif_29, Tachez_29, TaiwanKao_30, Taquito_29, Teal_32, Techage_24, Teejan_25, Thespis_24,

ThulaThula_24, Thyatira_28, Tierra_29, Tigress9_29, Tillicus_33, TingHuaYa_29, TiniBug_29, Tiri_29, Topper_29, Torres_25, Tortellini_24, TpudiCK_33, Tracker_46, TreyKay_29, TribleTrouble_28, Trice_25, TruffulaTree_29, Turuncu_51, Twitch_29, TyDawg_32, Typha_29, Ubuntu_28, Unicorn_29, Urkel_29, Validus_29, Veliki_29, Venti_24, Vidya_24, ViviJ_27, WST1_23, Waterfoul_28, Webster2_28, Wheezy_46, WhoseManz_47, Willsammy_24, Wintermute_30, Wishmaker_28, Woes_32, Wojtek_33, Xavia_24, Xeno_23, Ximenita_30, Y10_30, Y2_30, YasnayaPolyana_30, Yikes_35, Yndexa_47, YoureAdopted_28, Yuna_30, Yunkel11_29, Zabiza_29, Zany_33, Zavala_29, Zilizebeth_24,

Genes that have the "Most Annotated" start but do not call it:
• Krueger_29,

Genes that do not have the "Most Annotated" start:
• 32HC_32, Alexphander_23, Aloeri_22, AlpineSix_21, AmandaPanda_39, Aminay_27, Amore2_35, Applejacks_27, ArcusAngelus_21, Ardmore_21, Asapag_32, Aubs_21, Austin_35, Awesomesauce_22, Ayotoya_28, Aziz_36, BAKA_39, BENtherdunthat_33, BabyMoney_30, Barnyard_38, Batiatus_21, Beakin_22, Beanstalk_22, BearBQ_31, Bernal13_26, BetterKatz_28, Blarby_29, Blexus_21, BlueCrab_21, BobaPhett_21, Bobi_23, Bock_28, BodEinwohner17_21, Boomer_22, BoostSeason_27, BotCity_33, Bromden_24, Brushbloom_22, Brylie_28, Bubbles123_22, Budski_32, Burwell21_21, BuzzLyseyear_23, ByChance_21, Byougenkin_21, Cabrinians_21, CaptainTrips_22, Chaser_22, Che8_22, Cheesepuff_23, Chevrolet_21, ChickenDinner_22, Chop_28, Chuckly_21, ChutneyChips_23, Corium_21, Cornucopia_22, Crater_30, DLane_21, DRBy19_21, DS6A_28, DaWorst_23, DaddyRickover_21, Daenerys_21, Dante_21, Daredevil_39, DeadP_21, Deb65_21, DelRio_29, Dewdrop_64, DillTech15_21, DirtMcgirt_22, DismalFunk_27, DismalStressor_27, DoRead_21, DocMcStuffins_22, Dogfish_31, Donkeykong_21, Doomphist_21, Doomslug_23, Dorothy_21, DosHalletts_22, DotProduct_21, Doug_22, Douge_22, Doughnut_27, DrLupo_40, Drago_22, Duke13_39, DumpsterDude_24, DyoEdafos_23, Ecliptus_35, Eish_21, EleanorGeorge_21, Elfy_79, EmiMonkey_21, Emma_21, Emmaloid_22, Empress_22, Enby_22, Enzomatic_23, Eradicator_21, Estes_37, Ewald_31, Fancypants_21, FarmResident_22, Fastidio_21, Filuzino_21, Findley_27, Firehouse51_22, Flathead_22, Florinda_21, Francois_28, Frankie_22, FreddyB_21, Fruitloop_21, GMA7_25, GTE7_25, GUmbie_21, Gaia_24, Galactic_21, Gandalph_21, GardenSalsa_36, GenevaB15_36, Geralt_21, Getalong_33, GigiOuiOui_21, Girafales_22, Girr_21, Gonephishing_37, Gorge_21, GrandSlam_28, Grimmer_22, Guppsters_22, Gustav_27, Hades_21, Hamood_28, Hamulus_21, Harley_21, HayZem_34, Hegedechwinu_22, Heinz_28, Hlubikazi_21, Holliday_32, Horus_32, IMpilo_21, IbOuu_21, Ibhubesi_21, Ibrahim_26, Indlulamithi_30, Inventum_21, IrishSherpFalk_22, JalFarm20_23, James_21, Jant_21, Jarcob_21, Jinglebell_20, Job42_24, JoeyJr_21, JrWilcox_78, Juice456_23, Juniper1_21, JustASigh_23, Kamaru_32, Karhdo_21, Kenna_31, Kimberlium_23, KingJulian_21, KingMidas_22, Krakatau_22, KristaRAM_22, Kropertea_22, Kuwabara_31, Latretium_22, Leaf_64, Leozinho_22, Leperchaun_21, Leroy_32, LilMoolah_21, LilSpotty_21, LitninMcQueen_31, LittleE_42, LittleShirley_22, Lizziana_21, Llama_21, Llij_21, Lorde_22, Lucia_22, LunaBlu_22, Lutum_32, Magritte_25, Magritte_26, Mahavrat_21, Mahdia_27, Mandlovu_21, Manilisa_33, Mantra_21, Maravista_21, Marcoliusprime_27, Marker_22, Martik_21, Mattes_21, Medindi_21, Melissauren88_21, Mendokysei_25, Meyran_30, MilleniumForce_22, Milly_27, Minerva_42, MinionDave_22, Minnie_22, Misha28_22, MisterCuddles_21, Modragons_21, Moonbeam_22, Morrissey_28, MortyNRick_31, Mova_22, Mozy_22,

MrMagoo_36, Mufasa_27, MulchExplorer_23, Mulch_28, Mutaforma13_21, Mwanjiwa_21, Nadeem_28, Nairb_26, NancyRae_28, Nebkiss_25, Nette_27, NewHope4_23, Nichirin_21, Nimbo_21, Nitzel_22, Nivrat_21, NormanBulbieJr_21, Nyceirae_32, ODay_36, Ochi17_21, OfUltron_21, Oksu_22, OldBen_21, OlympiaSaint_21, Omega_41, Omnicron_29, Optimus_40, Ovechkin_21, OwlsT2W_23, PHappiness_21, PMC_21, Pacc40_21, Parada_28, PatoPoderoso_21, Peridot_22, Periwinkle_34, Phabuloso_31, Phalconet_21, Phasih_22, Phatniss_22, PhesterPhotato_21, Philus_21, Phishy_31, Phistory_33, PhlipPhlop_21, Pimento_28, Piper2020_22, Plumbus_22, Poenanya_21, Polka14_22, Polo2Bam_23, PopTart_21, Priscilla_21, Puppers_27, Quby_22, QuickMath_22, Quico_22, Radiance_21, Ramsey_22, RavenCo17_27, RedBird_21, Rem711_31, Rey_36, Rialto_23, RitaG_21, Rita_21, Rockne_21, RockyHorror_22, RonRayGun_26, Royals2015_21, Ruby_21, SG4_21, Saal_21, Sabbb_22, Sandalphon_22, Sassafras_21, SassyB_21, Scottish_22, SeaLumen_22, Seabastian_21, Seagreen_22, ShawBrad_32, ShiLan_21, ShowerHandel_21, SiSi_21, SilverChicken_27, SimranZ1_22, Slim_22, Sparkdehlily_21, Spartacus_22, Spikelee_22, Spoonbill_21, Sprinklemunch_23, StAnnes_21, Stap_22, Starcevich_22, Strobilo_27, Strokeseat_21, Suerte_27, SuperGrey_22, SussRoloMann_28, SwagPigglett_21, TDanisky_21, TM4_27, Taj_21, Tchotchke_22, Thimann_29, TootsiePop_22, Tootsieroll_22, Topiatin_23, Toron_23, Totinger_22, Towmatter_38, Trine_26, Tweety_22, UncleRicky_24, Upyo_26, VRedHorse_21, ValentiniPuff_76, Veteran_21, Violac_22, Vivum_21, Vordorf_32, Wachhund_21, Wanda_42, Wee_22, Whatsapiecost_21, WheatThin_28, Whitney_33, Whitty_26, Whouxphf_21, Widow_27, WillSterrel_22, WorMMAs_27, XFactor_21, Yorick_21, ZenTime222_26, Zerg_21, Zizzle_21, Zodiariah_23, ZoeJ_27,

Summary by start number:

Start 86:
• Found in 185 of 838 (22.1%) of genes in pham
• Manual Annotations of this start: 1 of 762
• Called 0.5% of time when present
• Phage (with cluster) where this start called: Duke13_39 (J),

Start 92:
• Found in 3 of 838 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 762
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Krueger_29 (K6),

Start 99:
• Found in 5 of 838 (0.6%) of genes in pham
• Manual Annotations of this start: 3 of 762
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amore2_35 (CS1), Austin_35 (CS1), GMA7_25 (CS1), GTE7_25 (CS1), HayZem_34 (CS1),

Start 101:
• Found in 1 of 838 (0.1%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Toron_23 (F6),

Start 102:
• Found in 22 of 838 (2.6%) of genes in pham
• Manual Annotations of this start: 1 of 762
• Called 4.5% of time when present
• Phage (with cluster) where this start called: LitninMcQueen_31 (DN1),

Start 103:
• Found in 18 of 838 (2.1%) of genes in pham
• Manual Annotations of this start: 17 of 762
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ayotoya_28 (DI), BetterKatz_28 (DI), Bock_28 (DI), Brylie_28 (DI), Chop_28 (DI), Daredevil_39 (DL), DelRio_29 (DI), Francois_28 (DI), GrandSlam_28 (DI), Hamood_28 (DI), Mulch_28 (DI), Nadeem_28 (DI), NancyRae_28 (DI), Parada_28 (DI), Pimento_28 (DI), SussRoloMann_28 (DI), Towmatter_38 (DL), WheatThin_28 (DI),

Start 104:
• Found in 1 of 838 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 762
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Omnicron_29 (K5),

Start 105:
• Found in 478 of 838 (57.0%) of genes in pham
• Manual Annotations of this start: 433 of 762
• Called 99.8% of time when present
• Phage (with cluster) where this start called: 8UZL_26 (AB), Aaravos_31 (DV), ActinUp_29 (K1), Adephagia_29 (K1), Adonis_29 (K1), Agent47_28 (K5), Ageofdapage_29 (K1), Alephilan_31 (DV), AlishaPH_29 (K1), AlleyCat_29 (K5), Alyssamiracle_35 (DV), Amelie_25 (K1), Amgine_27 (K6), Amochick_28 (Q), Amohnition_28 (K6), Amymech_28 (Q), Anamika_32 (CS3), Anaya_30 (K1), Andies_23 (N), Angelica_29 (K1), Anma_29 (K1), Apeppi_31 (DV), Apocalypse_29 (K1), Applecrisp_27 (K6), Archimedes_28 (DA), Arib1_24 (P1), Arti_46 (CR2), Asayake_29 (K1), Astralis_32 (DV), Atcoo_24 (P1), Atiba_29 (K1), AuntGwenStacy_29 (Y), Auspice_32 (M1), Avian_32 (DV), BEEST_29 (K1), BGlluviae_29 (K1), Babsiella_24 (I1), BaghaKamala_29 (K1), BananenDer11_28 (K5), BarrelRoll_29 (K1), Bartholomew_24 (P1), Beaver_35 (CS2), Beezoo_29 (K1), Bella96_29 (K1), Belladonna_29 (K1), Bern_29 (K1), Berries_32 (CS3), Bhagsy_24 (P1), BiPauneto_48 (CR4), Bianmat_32 (CS3), BigNuz_24 (P4), Biglebops_25 (K1), BillyBobJr_36 (CS2), Bipper_30 (Y), BirksAndSocks_35 (CS2), BirthdayBoy_35 (DV), Blizzard_29 (K1), BloominB_28 (Q), Bluvara_24 (I3), Bobquesha_31 (K4), Boiiii_29 (K1), Boneham_35 (CS2), Bongo_32 (M1), Bonum_50 (CR2), Bricole_32 (M1), BronnyJr_24 (P1), Brusacoram_24 (P1), Bryler_29 (K6), Buggaboo_48 (CR2), Bunnies_24 (P1), Butterball_35 (CS2), Butters_24 (N), CREW_29 (K1), CactusJack_24 (P1), Cain_29 (K6), CallaLilly_29 (K1), Camster_24 (P1), Capricorn_29 (K1), CaseJules_29 (K1), Chancellor_30 (K4), Charianelly_32 (CS3), Charminar_32 (DV), Chavito_29 (K1), Che9c_23 (I2), CheetoDust_29 (K1), Cheetobro_30 (K4), CherryTomatoes_127 (DO), Chris_28 (K1), Chubbello_24 (P1), CinnamonToast_36 (CS2), Clipper_29 (K1), Collard_28 (K5), Commandaria_47 (CR2), Cracklewink_30 (Y), CrimD_29 (K1), Curiosium_30 (K1), Dadosky_29 (K5), Daegal_29 (Q), Dalmuri_29 (K1), Damp_32 (CS3), DartGoblin_29 (K1), DarthP_28 (K6), Dartin_29 (K1), DaviePasture_34 (DV), Deby_29 (K1), DeepSoil15_28 (Q), Demikore_39 (U), Devera_29 (K1), Dewey_28 (Q), Diabla_34 (CS2), Diminimus_33

(M1), Dole_29 (K1), Donovan_24 (P1), DoobyDoo_33 (DV), DoubleChamp_28 (K5), DrHayes_29 (K1), Dulcita_33 (M1), Durfee_29 (K1), Dynamo_24 (P1), Edugator_28 (K5), Efra2_29 (K1), Ein37_28 (Q), Ekdilam_26 (K6), Ellie_26 (K6), Emerson_29 (K1), Emianna_46 (CR2), Enkosi_25 (K1), Ennea_53 (CR3), Eponine_31 (K4), Erutan_34 (DV), Etoile_24 (P1), Evanesce_28 (Q), FF47_26 (AB), Faiyaz_29 (Y), Farewell_23 (AF), Fefferhead_28 (K6), FelixAlejandro_36 (CS2), Feyre_28 (K5), Fionnbharth_30 (K4), FirstPlacePfu_24 (P1), Fishburne_24 (P1), Flapper_51 (CR1), Float294_49 (CR3), Forge_28 (Q), Foxboro_47 (CR2), FreakyGoo_33 (M1), Fulcrum_35 (DV), Fury_54 (CR5), GOATification_35 (DV), GRU1_36 (CR1), GTE5_38 (CR1), GTE8_35 (CR2), GalacticEye_32 (CS3), GaloreK_24 (P1), Gancho_27 (Q), Ganymede_30 (K1), Gavriela_24 (P1), Genamy16_35 (DV), Gengar_28 (K5), Geraldini_29 (K1), Gibbin_35 (DV), Giles_28 (Q), Glaske16_33 (M1), Glaske_24 (P1), Gravaillia_28 (Q), GretelLyn_34 (DV), GrootJr_48 (CR2), Gsput1_27 (CU2), Guanica15_29 (K1), Guillaume_32 (CS3), Guillsminger_28 (K5), HC_24 (I1), HH92_28 (Q), HUHilltop_24 (P1), Hadrien_28 (Q), Hail2Pitt_32 (CS3), Hail_28 (Q), Hammy_28 (K6), Harambe_32 (CS3), HedwigODU_29 (K1), Heftyboy_28 (K5), Hello_32 (CS3), Hilltopfarm_29 (Y), HomeFry_51 (CR5), Homura_29 (K1), HubbaBubba_43 (CR4), Hurricane_30 (K3), Hyperbowlee_29 (K1), IDyn_47 (CR4), IPhane7_32 (M1), IdentityCrisis_22 (AJ), Illumine_29 (K1), Impisi_24 (N), Inky_29 (K1), InvictusManeo_28 (K5), Izel_33 (M1), JAWS_29 (K1), JF1_30 (K4), Jalebi_33 (DV), Jamemuya19_32 (DV), Jams_32 (CS3), Jarvi_29 (K1), Jayhawk_29 (K1), Jebeks_24 (P1), Jeckyll_29 (K1), Jellybones_35 (CS2), Jifall16_45 (CR2), John316_35 (CS2), Jormungandr_32 (CS3), Joy99_29 (K1), Juliette_32 (K4), Jumbo_27 (DF3), Jung_24 (P1), Juniormint_24 (P1), Kabluna_50 (CR2), Kari_24 (P1), Kaseim_32 (CS3), Keshu_30 (K3), Kevin1_24 (N), Kheparia_31 (K1), KiSi_28 (K1), KidneyBean_46 (CR2), KilKor_24 (P1), Kinbote_28 (Q), KleverKiS_32 (M1), Kratio_27 (K5), Kraw_30 (K4), Ksquared_24 (P1), Kurt_46 (CR2), Labelle_38 (U), Lahirium_32 (CS3), Lambo_34 (DV), Langerak_24 (P1), Larva_29 (K5), LastHope_29 (K1), LaterM_29 (K1), LavAbarElk_32 (DV), Lavahound_27 (K6), LeMond_28 (K1), Lea83_29 (K3), Lebo14_30 (K4), Leston_28 (K5), Lidong_32 (CS3), LilDirt_27 (K5), LilHazelnut_28 (Q), LilPharaoh_25 (K1), Lila22_33 (DV), LilhomieP_31 (M1), LindNT_29 (K1), Llorens_29 (K1), Lokum_29 (K1), Lollipop1437_52 (CR3), LongHai_27 (AB), LordVader_22 (F), LuckyLeo_33 (DV), Luke_28 (Q), Luker_33 (CS3), Luna22_28 (Q), Lunahalos_29 (K1), MacKat_29 (K1), MacnCheese_30 (K3), Maco6_24 (AB), Madruga_37 (U), Majeke_24 (P1), MakCheese_25 (DW), MalagasyRose_29 (AG), Malithi_24 (P1), Malthus_31 (K4), Mangethe_24 (P1), Marietta_48 (CR4), MarkPhew_29 (K1), Marshawn_30 (K6), McMater_29 (K1), Mdavu_25 (K1), MeaningOfLife_29 (K1), Megiddo_24 (P1), Megsy_29 (K1), MerCougar_48 (CR2), MichelleMyBell_24 (N), Mima20_32 (DV), Minos_33 (CS3), Miryou_28 (K5), MissDaisy_30 (K4), Mitti_30 (K4), MoiGyank_36 (DV), MrWormie_32 (CS3), Msay19_36 (CS2), Muddy_26 (AB), Murucutumbu_29 (K1), Mynx_29 (K1), NadineRae_46 (CR4), NatB6_46 (CR2), Nazo_24 (P4), Necropolis_24 (P1), Neighly_29 (K3), Neoevie_32 (CS3), Nettle_35 (DV), Newt_33 (CS3), Nibb_28 (K1), Nikao_25 (K1), Niklas_29 (K1), Nimi13_32 (CS3), Nolwazi_31 (K4), NorManre_35 (DV), NosilaM_50 (CR2), NovaSharks_34 (DV), November_27 (K6), NovoPizza_25 (Q), NovumRegina_46 (CR2), Nutello_25 (K1), OBUpride_28 (Q), Okabe_23 (F8), OkiRoe_28 (K5), OmniCritical_30 (K4), Oscar_28 (K1), OtterstedtS21_34 (DV), Outis_48 (CR2), Padfoot_29 (K1), Padpat_29 (K1), Panchino_23 (N), Paola_28 (K5), ParvusTarda_34 (DV), Patience_39 (U), Patio_50 (CR3), Patos_35 (DV), Patt_30 (K4), Peanam_29 (K1), PeanutPie_24 (P1), Peel_29 (K1), PegLeg_32 (M1), Pemberton_48 (CR4), Phalm_24 (P1), Pharb_28 (K3), Phayonce_24 (P5), Phegasus_24 (P1), PhelpsODU_29 (K6), Phineas_24 (P1), Phomeo_45 (CR2), Phrank_29 (K6), Phrann_23 (N), Piatt_29 (K1), Pisa1_28 (K1), Pisa4_28 (K1), Pixie_29 (K3), Pleakley_54 (CR5), Pokerus_28 (K1), Poland_36

(CS2), Polkaroo_24 (P1), Prithvi_29 (K1), Psycho_29 (K5), Pupper_128 (DO), Purky_24 (P6), Pywacket_33 (DV), Qhanda_31 (K4), QuincyRose_28 (K1), Ramen_29 (K1), Ranch_34 (DV), Rando14_29 (K5), Rapunzel97_29 (K1), Raymond7_23 (N), RazorC_33 (DV), Rebel_23 (N), RedRaider_54 (CR3), Reindeer_32 (M1), Reptar3000_30 (K4), Richo_29 (K1), Riduram_32 (DV), Rosmarinus_29 (K1), Rota_33 (DV), Rubeelu_24 (N), Rukungu_34 (DV), Rumi_34 (DV), Ruthiejr_31 (K4), SCentae_127 (DO), Sadboi_35 (DV), Salvus_27 (AB), SamScheppers_29 (K4), Sampudon_34 (DV), SamuelLPlaqson_29 (K1), Sbash_23 (I2), Scarlett_28 (K1), Scitech_23 (N), Scuba_54 (CR5), SgtBeansprout_25 (K1), Shadow1_28 (K6), Shaobing_29 (K1), ShedlockHolmes_29 (K3), Shelley_32 (CS3), ShiaSurprise_29 (K1), Shweta_23 (N), SirPhilip_28 (K6), SkinnyPete_23 (N), Skinny_33 (M1), Skog_190 (DO), Skysand_49 (CR3), Slarp_30 (K4), SlimJimmy_31 (M1), Slimphazie_29 (K1), SoSeph_28 (K5), Sonah_24 (P1), Sparky_23 (AF), Spock_29 (K1), StarStruck_48 (CR2), StevieRay_24 (P1), Sticker17_32 (CS3), Stinson_30 (K1), Stormer_33 (DV), StressBall_24 (P1), Sukkupi_47 (CR4), Sulley_29 (K1), Sunflower1121_28 (K6), SuperSonics_38 (U), SuperSulley_48 (CR2), Syra333_29 (K6), TBond007_29 (K3), TClif_29 (K6), Tachez_29 (K1), TaiwanKao_30 (K1), Taquito_29 (K4), Teal_32 (CS3), Techage_24 (P1), Teejan_25 (K1), Thespis_24 (P1), ThulaThula_24 (P5), Thyatira_28 (K5), Tierra_29 (K6), Tigress9_29 (K6), Tillicus_33 (DV), TingHuaYa_29 (K1), TiniBug_29 (K1), Tiri_29 (K1), Topper_29 (K1), Torres_25 (K1), Tortellini_24 (P2), TpudiCK_33 (M1), Tracker_46 (CR2), TreyKay_29 (K1), TribleTrouble_28 (K3), Trice_25 (K1), TruffulaTree_29 (K1), Turuncu_51 (CR1), Twitch_29 (K1), TyDawg_32 (M1), Typha_29 (Y), Ubuntu_28 (Q), Unicorn_29 (K6), Urkel_29 (K1), Validus_29 (K1), Veliki_29 (K1), Venti_24 (P1), Vidya_24 (P1), ViviJ_27 (K5), WST1_23 (AJ), Waterfoul_28 (K5), Webster2_28 (Q), Wheezy_46 (CR2), WhoseManz_47 (CR4), Willsammy_24 (P1), Wintermute_30 (K4), Wishmaker_28 (Q), Woes_32 (CS3), Wojtek_33 (DV), Xavia_24 (P3), Xeno_23 (N), Ximenita_30 (K6), Y10_30 (K4), Y2_30 (K4), YasnayaPolyana_30 (K4), Yikes_35 (DV), Yndexa_47 (CR4), YoureAdopted_28 (K1), Yuna_30 (K6), Yunkel11_29 (K1), Zabiza_29 (K1), Zany_33 (DV), Zavala_29 (K1), Zilizebeth_24 (P1),

Start 106:
• Found in 53 of 838 (6.3%) of genes in pham
• Manual Annotations of this start: 47 of 762
• Called 98.1% of time when present
• Phage (with cluster) where this start called: AmandaPanda_39 (H2), Asapag_32 (DN1), BENtherdunthat_33 (DN1), BabyMoney_30 (DT), Barnyard_38 (H2), BearBQ_31 (DN), BoostSeason_27 (K2), BotCity_33 (DN), Budski_32 (DN), Crater_30 (DN3), DismalFunk_27 (K2), DismalStressor_27 (K2), Dogfish_31 (DT), Doughnut_27 (K2), DrLupo_40 (H2), DumpsterDude_24 (DW), Ecliptus_35 (DN), Ewald_31 (DT), Findley_27 (K2), Getalong_33 (DN1), Heinz_28 (DY), Holliday_32 (DN1), Horus_32 (DN1), Kamaru_32 (DN1), Kenna_31 (DN1), Kuwabara_31 (DN4), Leroy_32 (DN1), Lutum_32 (DN1), Magritte_25 (singleton), Manilisa_33 (DT), Marcoliusprime_27 (K2), Meyran_30 (DT), Milly_27 (K2), MortyNRick_31 (DN), Mufasa_27 (K2), Nyceirae_32 (DT), ODay_36 (DN), Periwinkle_34 (DN1), Phabuloso_31 (DN1), Phishy_31 (DT), Phistory_33 (DN1), RavenCo17_27 (CZ8), ShawBrad_32 (DN1), Sprinklemunch_23 (DW), Strobilo_27 (K2), Suerte_27 (CZ4), TM4_27 (K2), Thimann_29 (CZ4), Vordorf_32 (DT), Whitney_33 (DN1), Zodiariah_23 (DW), ZoeJ_27 (K2),

Start 107:
• Found in 274 of 838 (32.7%) of genes in pham
• Manual Annotations of this start: 250 of 762

• Called 98.9% of time when present
• Phage (with cluster) where this start called: Alexphander_23 (F1), Aloeri_22 (F1), AlpineSix_21 (F1), Aminay_27 (K7), Applejacks_27 (CD), ArcusAngelus_21 (F1), Ardmore_21 (F1), Aubs_21 (F1), Awesomesauce_22 (F1), Aziz_36 (M2), BAKA_39 (J), Batiatus_21 (F1), Beakin_22 (F1), Beanstalk_22 (F1), Blarby_29 (F), Blexus_21 (F1), BlueCrab_21 (F1), BobaPhett_21 (F1), Bobi_23 (F1), BodEinwohner17_21 (F1), Boomer_22 (F1), Bromden_24 (L4), Brushbloom_22 (F1), Bubbles123_22 (F1), Burwell21_21 (F1), BuzzLyseyear_23 (F1), ByChance_21 (F1), Byougenkin_21 (F1), Cabrinians_21 (F1), CaptainTrips_22 (F1), Chaser_22 (L4), Che8_22 (F1), Cheesepuff_23 (F1), Chevrolet_21 (F1), ChickenDinner_22 (F1), Chuckly_21 (F1), ChutneyChips_23 (L4), Corium_21 (F1), Cornucopia_22 (F1), DLane_21 (F1), DRBy19_21 (F1), DS6A_28 (singleton), DaWorst_23 (F1), DaddyRickover_21 (F1), Daenerys_21 (F1), Dante_21 (F1), DeadP_21 (F1), Deb65_21 (F1), Dewdrop_64 (GC), DillTech15_21 (F1), DirtMcgirt_22 (F1), DoRead_21 (F1), DocMcStuffins_22 (F1), Donkeykong_21 (F1), Doomphist_21 (F1), Doomslug_23 (F), Dorothy_21 (F1), DosHalletts_22 (F1), DotProduct_21 (F1), Doug_22 (F1), Douge_22 (L4), Drago_22 (F1), DyoEdafos_23 (L4), Eish_21 (F1), EleanorGeorge_21 (F1), Elfy_79 (FP), EmiMonkey_21 (F1), Emma_21 (F1), Emmaloid_22 (F1), Empress_22 (F1), Enby_22 (F1), Enzomatic_23 (F1), Eradicator_21 (F1), Estes_37 (M2), Fancypants_21 (F1), FarmResident_22 (L4), Fastidio_21 (F1), Filuzino_21 (F1), Firehouse51_22 (F1), Flathead_22 (F1), Florinda_21 (F1), Frankie_22 (F1), FreddyB_21 (F1), Fruitloop_21 (F1), GUmbie_21 (F1), Galactic_21 (F1), Gandalph_21 (F1), GardenSalsa_36 (M2), GenevaB15_36 (M2), Geralt_21 (F1), GigiOuiOui_21 (F1), Girafales_22 (F1), Girr_21 (F1), Gonephishing_37 (J), Gorge_21 (F1), Grimmer_22 (F1), Guppsters_22 (F1), Gustav_27 (CD), Hades_21 (F1), Hamulus_21 (F1), Harley_21 (F1), Hegedechwinu_22 (F1), Hlubikazi_21 (F1), IMpilo_21 (F1), IbOuu_21 (F1), Ibhubesi_21 (F1), Ibrahim_26 (T), Indlulamithi_30 (AC), Inventum_21 (F1), IrishSherpFalk_22 (F1), JalFarm20_23 (F1), James_21 (F1), Jant_21 (F1), Jarcob_21 (F1), Jinglebell_20 (F1), Job42_24 (F1), JoeyJr_21 (F1), JrWilcox_78 (GL), Juice456_23 (F1), Juniper1_21 (F1), Karhdo_21 (F1), Kimberlium_23 (F1), KingJulian_21 (F1), KingMidas_22 (F1), Krakatau_22 (F1), KristaRAM_22 (F1), Kropertea_22 (L4), Latretium_22 (F1), Leaf_64 (GC), Leozinho_22 (F1), Leperchaun_21 (F1), LilMoolah_21 (F1), LittleE_42 (J), LittleShirley_22 (F1), Lizziana_21 (F1), Llama_21 (F1), Llij_21 (F1), Lorde_22 (F1), Lucia_22 (F1), LunaBlu_22 (F1), Mahavrat_21 (F1), Mahdia_27 (CD), Mandlovu_21 (F1), Mantra_21 (F1), Maravista_21 (F1), Marker_22 (F1), Martik_21 (F1), Mattes_21 (F1), Medindi_21 (F1), Melissauren88_21 (F1), Mendokysei_25 (T), MilleniumForce_22 (F1), Minerva_42 (J), MinionDave_22 (F1), Minnie_22 (F1), Misha28_22 (F1), MisterCuddles_21 (F1), Modragons_21 (F1), Moonbeam_22 (F1), Morrissey_28 (CD), Mova_22 (F1), Mozy_22 (F1), MrMagoo_36 (M2), MulchExplorer_23 (F1), Mutaforma13_21 (F1), Mwanjiwa_21 (F1), Nairb_26 (T), Nette_27 (T), NewHope4_23 (F1), Nichirin_21 (F1), Nimbo_21 (F1), Nitzel_22 (F1), Nivrat_21 (F1), NormanBulbieJr_21 (F1), Ochi17_21 (F1), OfUltron_21 (F1), Oksu_22 (F1), OldBen_21 (F1), OlympiaSaint_21 (F1), Omega_41 (J), Optimus_40 (J), Ovechkin_21 (F1), OwlsT2W_23 (F1), PHappiness_21 (F1), PMC_21 (F1), Pacc40_21 (F1), PatoPoderoso_21 (F1), Peridot_22 (F1), Phalconet_21 (F1), Phasih_22 (F1), Phatniss_22 (F1), PhesterPhotato_21 (F1), Philus_21 (F1), PhlipPhlop_21 (F1), Piper2020_22 (F1), Plumbus_22 (F1), Poenanya_21 (F1), Polka14_22 (F1), Polo2Bam_23 (F1), PopTart_21 (F1), Priscilla_21 (F1), Puppers_27 (CD), Quby_22 (L4), QuickMath_22 (F1), Quico_22 (F1), Radiance_21 (F1), Ramsey_22 (F1), RedBird_21 (F1), Rey_36 (M2), Rialto_23 (F1), RitaG_21 (F1), Rita_21 (F1), Rockne_21 (F1), RockyHorror_22 (F1), RonRayGun_26 (T), Royals2015_21 (F1), Ruby_21 (F1), SG4_21 (F1), Saal_21 (F1), Sabbb_22 (F1),

Sandalphon_22 (F1), Sassafras_21 (F1), SassyB_21 (F1), Scottish_22 (F1), SeaLumen_22 (F1), Seabastian_21 (F1), Seagreen_22 (F1), ShiLan_21 (F1), ShowerHandel_21 (F1), SiSi_21 (F1), SimranZ1_22 (F1), Slim_22 (F1), Sparkdehlily_21 (F1), Spartacus_22 (F1), Spikelee_22 (F1), Spoonbill_21 (F1), StAnnes_21 (F1), Stap_22 (F1), Starcevich_22 (F1), Strokeseat_21 (F1), SuperGrey_22 (F1), SwagPigglett_21 (F1), TDanisky_21 (F1), Taj_21 (F1), Tchotchke_22 (F1), TootsiePop_22 (F1), Tootsieroll_22 (F1), Topiatin_23 (F1), Totinger_22 (F1), Trine_26 (CD), Tweety_22 (F1), UncleRicky_24 (F1), Upyo_26 (CD), VRedHorse_21 (F1), ValentiniPuff_76 (GL), Veteran_21 (F1), Violac_22 (F1), Vivum_21 (F1), Wachhund_21 (F1), Wanda_42 (J), Wee_22 (F1), Whatsapiecost_21 (F1), Whitty_26 (T), Whouxphf_21 (F1), Widow_27 (CD), WillSterrel_22 (F1), WorMMAs_27 (UNK), XFactor_21 (F1), Yorick_21 (F1), Zerg_21 (F1), Zizzle_21 (F1),

Start 108:
• Found in 8 of 838 (1.0%) of genes in pham
• Manual Annotations of this start: 5 of 762
• Called 87.5% of time when present
• Phage (with cluster) where this start called: 32HC_32 (Z), Gaia_24 (X), JustASigh_23 (AH), LilSpotty_21 (singleton), Nebkiss_25 (X), Rem711_31 (Z), SilverChicken_27 (F2),

Start 111:
• Found in 8 of 838 (1.0%) of genes in pham
• Manual Annotations of this start: 2 of 762
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Bernal13_26 (T), ZenTime222_26 (T),

Start 197:
• Found in 1 of 838 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 762
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Magritte_26 (singleton),

Summary by clusters:

There are 69 clusters represented in this pham: DN, DO, singleton, DI, K4, K7, CZ4, DA, K3, K2, K1, AB, M1, K6, K5, M2, DV, DW, DT, DL, F, GL, AG, DN4, I1, I3, I2, DF3, CZ8, CR3, DN1, DN3, CS1, CS3, CS2, P2, P3, AC, P1, P6, P4, P5, AH, J, AJ, FP, N, Q, L4, GC, T, DY, Y, X, UNK, AF, CU2, CR2, F1, F2, CR1, F6, CR4, CR5, H2, Z, F8, CD, U,

Info for manual annotations of cluster AB:
•Start number 105 was manually annotated 2 times for cluster AB.

Info for manual annotations of cluster AC:
•Start number 107 was manually annotated 1 time for cluster AC.

Info for manual annotations of cluster AF:
•Start number 105 was manually annotated 2 times for cluster AF.

Info for manual annotations of cluster AG:
•Start number 105 was manually annotated 1 time for cluster AG.

Info for manual annotations of cluster AH:
•Start number 108 was manually annotated 1 time for cluster AH.

Info for manual annotations of cluster AJ:
•Start number 105 was manually annotated 1 time for cluster AJ.

Info for manual annotations of cluster CD:
•Start number 107 was manually annotated 7 times for cluster CD.

Info for manual annotations of cluster CR1:
•Start number 105 was manually annotated 2 times for cluster CR1.

Info for manual annotations of cluster CR2:
•Start number 105 was manually annotated 21 times for cluster CR2.

Info for manual annotations of cluster CR3:
•Start number 105 was manually annotated 6 times for cluster CR3.

Info for manual annotations of cluster CR4:
•Start number 105 was manually annotated 9 times for cluster CR4.

Info for manual annotations of cluster CR5:
•Start number 105 was manually annotated 4 times for cluster CR5.

Info for manual annotations of cluster CS1:
•Start number 99 was manually annotated 3 times for cluster CS1.

Info for manual annotations of cluster CS2:
•Start number 105 was manually annotated 10 times for cluster CS2.

Info for manual annotations of cluster CS3:
•Start number 105 was manually annotated 25 times for cluster CS3.

Info for manual annotations of cluster CZ4:
•Start number 106 was manually annotated 2 times for cluster CZ4.

Info for manual annotations of cluster CZ8:
•Start number 106 was manually annotated 1 time for cluster CZ8.

Info for manual annotations of cluster DA:
•Start number 105 was manually annotated 1 time for cluster DA.

Info for manual annotations of cluster DF3:
•Start number 105 was manually annotated 1 time for cluster DF3.

Info for manual annotations of cluster DI:
•Start number 103 was manually annotated 15 times for cluster DI.

Info for manual annotations of cluster DL:
•Start number 103 was manually annotated 2 times for cluster DL.

Info for manual annotations of cluster DN:

•Start number 106 was manually annotated 6 times for cluster DN.

Info for manual annotations of cluster DN1:
•Start number 102 was manually annotated 1 time for cluster DN1.
•Start number 106 was manually annotated 14 times for cluster DN1.

Info for manual annotations of cluster DN3:
•Start number 106 was manually annotated 1 time for cluster DN3.

Info for manual annotations of cluster DN4:
•Start number 106 was manually annotated 1 time for cluster DN4.

Info for manual annotations of cluster DO:
•Start number 105 was manually annotated 4 times for cluster DO.

Info for manual annotations of cluster DT:
•Start number 106 was manually annotated 5 times for cluster DT.

Info for manual annotations of cluster DV:
•Start number 105 was manually annotated 38 times for cluster DV.

Info for manual annotations of cluster DW:
•Start number 106 was manually annotated 2 times for cluster DW.

Info for manual annotations of cluster DY:
•Start number 106 was manually annotated 1 time for cluster DY.

Info for manual annotations of cluster F:
•Start number 105 was manually annotated 1 time for cluster F.

Info for manual annotations of cluster F1:
•Start number 107 was manually annotated 213 times for cluster F1.

Info for manual annotations of cluster FP:
•Start number 107 was manually annotated 1 time for cluster FP.

Info for manual annotations of cluster GC:
•Start number 107 was manually annotated 2 times for cluster GC.

Info for manual annotations of cluster GL:
•Start number 107 was manually annotated 1 time for cluster GL.

Info for manual annotations of cluster H2:
•Start number 106 was manually annotated 2 times for cluster H2.

Info for manual annotations of cluster I1:
•Start number 105 was manually annotated 2 times for cluster I1.

Info for manual annotations of cluster I2:
•Start number 105 was manually annotated 2 times for cluster I2.

Info for manual annotations of cluster J:
•Start number 86 was manually annotated 1 time for cluster J.
•Start number 107 was manually annotated 6 times for cluster J.

Info for manual annotations of cluster K1:
•Start number 105 was manually annotated 113 times for cluster K1.

Info for manual annotations of cluster K2:
•Start number 106 was manually annotated 11 times for cluster K2.

Info for manual annotations of cluster K3:
•Start number 105 was manually annotated 9 times for cluster K3.

Info for manual annotations of cluster K4:
•Start number 105 was manually annotated 22 times for cluster K4.

Info for manual annotations of cluster K5:
•Start number 104 was manually annotated 1 time for cluster K5.
•Start number 105 was manually annotated 24 times for cluster K5.

Info for manual annotations of cluster K6:
•Start number 92 was manually annotated 1 time for cluster K6.
•Start number 105 was manually annotated 25 times for cluster K6.

Info for manual annotations of cluster K7:
•Start number 107 was manually annotated 1 time for cluster K7.

Info for manual annotations of cluster L4:
•Start number 107 was manually annotated 6 times for cluster L4.

Info for manual annotations of cluster M1:
•Start number 105 was manually annotated 15 times for cluster M1.

Info for manual annotations of cluster M2:
•Start number 107 was manually annotated 6 times for cluster M2.

Info for manual annotations of cluster N:
•Start number 105 was manually annotated 12 times for cluster N.

Info for manual annotations of cluster P1:
•Start number 105 was manually annotated 40 times for cluster P1.

Info for manual annotations of cluster P2:
•Start number 105 was manually annotated 1 time for cluster P2.

Info for manual annotations of cluster P3:
•Start number 105 was manually annotated 1 time for cluster P3.

Info for manual annotations of cluster P4:
•Start number 105 was manually annotated 2 times for cluster P4.

Info for manual annotations of cluster P5:
•Start number 105 was manually annotated 2 times for cluster P5.

Info for manual annotations of cluster P6:
•Start number 105 was manually annotated 1 time for cluster P6.

Info for manual annotations of cluster Q:
•Start number 105 was manually annotated 24 times for cluster Q.

Info for manual annotations of cluster T:
•Start number 107 was manually annotated 5 times for cluster T.
•Start number 111 was manually annotated 2 times for cluster T.

Info for manual annotations of cluster U:
•Start number 105 was manually annotated 4 times for cluster U.

Info for manual annotations of cluster X:
•Start number 108 was manually annotated 2 times for cluster X.

Info for manual annotations of cluster Y:
•Start number 105 was manually annotated 6 times for cluster Y.

Info for manual annotations of cluster Z:
•Start number 108 was manually annotated 1 time for cluster Z.

Gene Information:

Gene: 32HC_32 Start: 26393, Stop: 26737, Start Num: 108
Candidate Starts for 32HC_32:
(87, 26333), (Start: 108 @26393 has 5 MA's), (125, 26462), (143, 26567),

Gene: 8UZL_26 Start: 22762, Stop: 23124, Start Num: 105
Candidate Starts for 8UZL_26:
(Start: 105 @22762 has 433 MA's), (118, 22810), (126, 22840), (129, 22855), (131, 22864), (156, 22945), (160, 22957), (175, 23026), (180, 23047), (190, 23086), (192, 23092),

Gene: Aaravos_31 Start: 29863, Stop: 30228, Start Num: 105
Candidate Starts for Aaravos_31:
(Start: 105 @29863 has 433 MA's), (138, 30004), (164, 30076), (166, 30091), (180, 30151), (190, 30190), (198, 30223),

Gene: ActinUp_29 Start: 24422, Stop: 24793, Start Num: 105
Candidate Starts for ActinUp_29:
(Start: 105 @24422 has 433 MA's), (138, 24584), (158, 24638), (162, 24656), (190, 24758),

Gene: Adephagia_29 Start: 24419, Stop: 24790, Start Num: 105
Candidate Starts for Adephagia_29:
(Start: 105 @24419 has 433 MA's), (138, 24581), (158, 24635), (162, 24653), (190, 24755),

Gene: Adonis_29 Start: 24425, Stop: 24796, Start Num: 105

Candidate Starts for Adonis_29:
(Start: 105 @24425 has 433 MA's), (138, 24587), (158, 24641), (162, 24659), (190, 24761),

Gene: Agent47_28 Start: 25170, Stop: 25568, Start Num: 105
Candidate Starts for Agent47_28:
(Start: 105 @25170 has 433 MA's), (145, 25338), (151, 25374), (160, 25401), (169, 25449), (173, 25467), (180, 25491), (188, 25524), (193, 25545),

Gene: Ageofdapage_29 Start: 24367, Stop: 24738, Start Num: 105
Candidate Starts for Ageofdapage_29:
(Start: 105 @24367 has 433 MA's), (138, 24529), (158, 24583), (160, 24589), (162, 24601), (169, 24622), (190, 24703),

Gene: Alephilan_31 Start: 29782, Stop: 30147, Start Num: 105
Candidate Starts for Alephilan_31:
(Start: 105 @29782 has 433 MA's), (131, 29887), (135, 29917), (160, 29980), (166, 30010), (190, 30109), (198, 30142),

Gene: Alexphander_23 Start: 23524, Stop: 23865, Start Num: 107
Candidate Starts for Alexphander_23:
(24, 23200), (Start: 86 @23470 has 1 MA's), (Start: 107 @23524 has 250 MA's), (125, 23593), (150, 23707), (154, 23719), (160, 23737), (177, 23809), (179, 23815), (185, 23842),

Gene: AlishaPH_29 Start: 24412, Stop: 24783, Start Num: 105
Candidate Starts for AlishaPH_29:
(Start: 105 @24412 has 433 MA's), (138, 24574), (158, 24628), (162, 24646), (190, 24748),

Gene: AlleyCat_29 Start: 25101, Stop: 25499, Start Num: 105
Candidate Starts for AlleyCat_29:
(Start: 105 @25101 has 433 MA's), (142, 25263), (151, 25305), (160, 25332), (169, 25380), (173, 25398), (180, 25422), (188, 25455), (193, 25476),

Gene: Aloeri_22 Start: 22871, Stop: 23212, Start Num: 107
Candidate Starts for Aloeri_22:
(45, 22673), (46, 22676), (48, 22682), (50, 22685), (54, 22709), (90, 22823), (Start: 107 @22871 has 250 MA's), (125, 22940), (150, 23054), (160, 23084), (177, 23156), (179, 23162), (185, 23189),

Gene: AlpineSix_21 Start: 23238, Stop: 23579, Start Num: 107
Candidate Starts for AlpineSix_21:
(Start: 107 @23238 has 250 MA's), (154, 23433), (160, 23451), (179, 23529),

Gene: Alyssamiracle_35 Start: 28883, Stop: 29248, Start Num: 105
Candidate Starts for Alyssamiracle_35:
(Start: 105 @28883 has 433 MA's), (131, 28988), (156, 29069), (190, 29210),

Gene: AmandaPanda_39 Start: 31314, Stop: 31688, Start Num: 106
Candidate Starts for AmandaPanda_39:
(Start: 106 @31314 has 47 MA's), (125, 31383), (151, 31512), (169, 31572), (178, 31611), (190, 31656),

Gene: Amelie_25 Start: 23944, Stop: 24318, Start Num: 105
Candidate Starts for Amelie_25:

(Start: 105 @23944 has 433 MA's), (114, 23980), (123, 24007), (152, 24145), (186, 24274), (190, 24283),

Gene: Amgine_27 Start: 24446, Stop: 24817, Start Num: 105
Candidate Starts for Amgine_27:
(Start: 105 @24446 has 433 MA's), (113, 24476), (118, 24491), (138, 24608), (158, 24662), (160, 24668),

Gene: Aminay_27 Start: 24925, Stop: 25269, Start Num: 107
Candidate Starts for Aminay_27:
(43, 24721), (61, 24790), (63, 24793), (65, 24796), (75, 24826), (Start: 107 @24925 has 250 MA's), (143, 25096), (162, 25153),

Gene: Amochick_28 Start: 24639, Stop: 24995, Start Num: 105
Candidate Starts for Amochick_28:
(Start: 105 @24639 has 433 MA's), (120, 24690), (125, 24708), (128, 24747), (136, 24798), (138, 24801), (151, 24819), (156, 24834), (169, 24879), (178, 24915), (181, 24927), (192, 24963),

Gene: Amohnition_28 Start: 24876, Stop: 25247, Start Num: 105
Candidate Starts for Amohnition_28:
(Start: 105 @24876 has 433 MA's), (138, 25038), (158, 25092), (160, 25098), (181, 25182),

Gene: Amore2_35 Start: 37752, Stop: 38129, Start Num: 99
Candidate Starts for Amore2_35:
(87, 37707), (Start: 99 @37752 has 3 MA's), (113, 37797), (138, 37902), (156, 37947), (160, 37959),

Gene: Amymech_28 Start: 24633, Stop: 24989, Start Num: 105
Candidate Starts for Amymech_28:
(Start: 105 @24633 has 433 MA's), (120, 24684), (125, 24702), (128, 24741), (136, 24792), (138, 24795), (151, 24813), (156, 24828), (169, 24873), (178, 24909), (181, 24921), (192, 24957),

Gene: Anamika_32 Start: 39535, Stop: 39900, Start Num: 105
Candidate Starts for Anamika_32:
(Start: 105 @39535 has 433 MA's), (113, 39565), (120, 39586), (152, 39727), (156, 39739), (158, 39745), (172, 39802), (175, 39808), (192, 39874), (196, 39892),

Gene: Anaya_30 Start: 24438, Stop: 24809, Start Num: 105
Candidate Starts for Anaya_30:
(Start: 105 @24438 has 433 MA's), (138, 24600), (158, 24654), (162, 24672), (190, 24774),

Gene: Andies_23 Start: 21409, Stop: 21771, Start Num: 105
Candidate Starts for Andies_23:
(Start: 105 @21409 has 433 MA's), (131, 21511), (151, 21577), (188, 21727), (192, 21739),

Gene: Angelica_29 Start: 24387, Stop: 24758, Start Num: 105
Candidate Starts for Angelica_29:
(Start: 105 @24387 has 433 MA's), (138, 24549), (158, 24603), (162, 24621), (190, 24723),

Gene: Anma_29 Start: 24379, Stop: 24750, Start Num: 105
Candidate Starts for Anma_29:
(Start: 105 @24379 has 433 MA's), (138, 24541), (158, 24595), (169, 24634),

Gene: Apeppi_31 Start: 29925, Stop: 30290, Start Num: 105

Candidate Starts for Apeppi_31:
(Start: 105 @29925 has 433 MA's), (138, 30066), (164, 30138), (166, 30153), (180, 30213), (190, 30252), (198, 30285),

Gene: Apocalypse_29 Start: 24390, Stop: 24761, Start Num: 105
Candidate Starts for Apocalypse_29:
(Start: 105 @24390 has 433 MA's), (138, 24552), (158, 24606), (162, 24624), (190, 24726),

Gene: Applecrisp_27 Start: 24868, Stop: 25239, Start Num: 105
Candidate Starts for Applecrisp_27:
(Start: 105 @24868 has 433 MA's), (113, 24898), (138, 25030), (158, 25084), (167, 25108), (169, 25123),

Gene: Applejacks_27 Start: 20789, Stop: 21145, Start Num: 107
Candidate Starts for Applejacks_27:
(Start: 107 @20789 has 250 MA's), (120, 20840), (128, 20897), (149, 20972), (162, 21017), (176, 21068), (181, 21092), (190, 21125),

Gene: Archimedes_28 Start: 24648, Stop: 25019, Start Num: 105
Candidate Starts for Archimedes_28:
(Start: 102 @24645 has 1 MA's), (Start: 105 @24648 has 433 MA's), (150, 24816), (166, 24876), (180, 24936), (192, 24981),

Gene: ArcusAngelus_21 Start: 23039, Stop: 23380, Start Num: 107
Candidate Starts for ArcusAngelus_21:
(24, 22715), (Start: 86 @22985 has 1 MA's), (Start: 107 @23039 has 250 MA's), (154, 23234), (160, 23252), (177, 23324), (179, 23330), (185, 23357), (191, 23372),

Gene: Ardmore_21 Start: 23042, Stop: 23383, Start Num: 107
Candidate Starts for Ardmore_21:
(Start: 86 @22988 has 1 MA's), (Start: 107 @23042 has 250 MA's), (125, 23111), (154, 23237), (160, 23255), (177, 23327), (179, 23333), (185, 23360),

Gene: Arib1_24 Start: 22523, Stop: 22885, Start Num: 105
Candidate Starts for Arib1_24:
(Start: 105 @22523 has 433 MA's), (131, 22625), (146, 22676), (151, 22691), (156, 22706), (169, 22766), (178, 22802), (192, 22853),

Gene: Arti_46 Start: 36322, Stop: 36663, Start Num: 105
Candidate Starts for Arti_46:
(Start: 105 @36322 has 433 MA's), (137, 36472), (152, 36496), (158, 36514), (159, 36517), (169, 36553), (178, 36589), (188, 36622), (190, 36628),

Gene: Asapag_32 Start: 24456, Stop: 24800, Start Num: 106
Candidate Starts for Asapag_32:
(Start: 106 @24456 has 47 MA's), (110, 24477), (128, 24567), (143, 24633), (150, 24648), (154, 24660), (159, 24675), (162, 24690), (171, 24729), (178, 24750), (185, 24774),

Gene: Asayake_29 Start: 24453, Stop: 24824, Start Num: 105
Candidate Starts for Asayake_29:
(Start: 105 @24453 has 433 MA's), (138, 24615), (158, 24669), (190, 24789),

Gene: Astralis_32 Start: 28473, Stop: 28838, Start Num: 105

Candidate Starts for Astralis_32:
(Start: 105 @28473 has 433 MA's), (131, 28578), (156, 28659), (190, 28800),

Gene: Atcoo_24 Start: 23011, Stop: 23373, Start Num: 105
Candidate Starts for Atcoo_24:
(Start: 105 @23011 has 433 MA's), (131, 23113), (146, 23164), (151, 23179), (156, 23194), (169, 23254), (173, 23272), (192, 23341),

Gene: Atiba_29 Start: 24382, Stop: 24753, Start Num: 105
Candidate Starts for Atiba_29:
(Start: 105 @24382 has 433 MA's), (138, 24544), (158, 24598), (162, 24616), (190, 24718),

Gene: Aubs_21 Start: 23158, Stop: 23499, Start Num: 107
Candidate Starts for Aubs_21:
(24, 22834), (Start: 86 @23104 has 1 MA's), (Start: 107 @23158 has 250 MA's), (125, 23227), (154, 23353), (160, 23371), (177, 23443), (179, 23449), (185, 23476),

Gene: AuntGwenStacy_29 Start: 27112, Stop: 27510, Start Num: 105
Candidate Starts for AuntGwenStacy_29:
(9, 26608), (10, 26611), (15, 26662), (16, 26668), (26, 26791), (27, 26800), (28, 26803), (35, 26851), (37, 26854), (38, 26860), (47, 26923), (59, 26977), (61, 26980), (63, 26983), (65, 26986), (67, 26992), (75, 27016), (76, 27019), (78, 27025), (80, 27031), (Start: 105 @27112 has 433 MA's), (131, 27214), (140, 27262), (146, 27301), (164, 27358), (175, 27412), (180, 27433),

Gene: Auspice_32 Start: 28085, Stop: 28447, Start Num: 105
Candidate Starts for Auspice_32:
(61, 27965), (75, 28001), (76, 28004), (80, 28016), (Start: 102 @28082 has 1 MA's), (Start: 105 @28085 has 433 MA's), (131, 28187), (138, 28223), (151, 28253), (164, 28295), (180, 28370), (182, 28379), (190, 28409),

Gene: Austin_35 Start: 37752, Stop: 38129, Start Num: 99
Candidate Starts for Austin_35:
(87, 37707), (Start: 99 @37752 has 3 MA's), (113, 37797), (138, 37902), (156, 37947), (160, 37959),

Gene: Avian_32 Start: 28865, Stop: 29230, Start Num: 105
Candidate Starts for Avian_32:
(Start: 105 @28865 has 433 MA's), (131, 28970), (156, 29051), (190, 29192),

Gene: Awesomesauce_22 Start: 22864, Stop: 23205, Start Num: 107
Candidate Starts for Awesomesauce_22:
(Start: 107 @22864 has 250 MA's), (154, 23059), (160, 23077), (177, 23149), (179, 23155), (185, 23182),

Gene: Ayotoya_28 Start: 25190, Stop: 25558, Start Num: 103
Candidate Starts for Ayotoya_28:
(Start: 103 @25190 has 17 MA's), (151, 25364),

Gene: Aziz_36 Start: 28984, Stop: 29328, Start Num: 107
Candidate Starts for Aziz_36:
(Start: 107 @28984 has 250 MA's), (150, 29170),

Gene: BAKA_39 Start: 35511, Stop: 35852, Start Num: 107
Candidate Starts for BAKA_39:

(24, 35187), (Start: 86 @35457 has 1 MA's), (Start: 107 @35511 has 250 MA's), (125, 35580), (154, 35706), (160, 35724), (177, 35796), (179, 35802), (185, 35829),

Gene: BEEST_29 Start: 24453, Stop: 24824, Start Num: 105
Candidate Starts for BEEST_29:
(Start: 105 @24453 has 433 MA's), (138, 24615), (158, 24669), (190, 24789),

Gene: BENtherdunthat_33 Start: 24021, Stop: 24365, Start Num: 106
Candidate Starts for BENtherdunthat_33:
(Start: 106 @24021 has 47 MA's), (110, 24042), (128, 24132), (143, 24198), (150, 24213), (162, 24255), (171, 24294), (178, 24315), (185, 24339),

Gene: BGlluviae_29 Start: 24453, Stop: 24824, Start Num: 105
Candidate Starts for BGlluviae_29:
(Start: 105 @24453 has 433 MA's), (138, 24615), (158, 24669), (162, 24687), (190, 24789),

Gene: Babsiella_24 Start: 22531, Stop: 22893, Start Num: 105
Candidate Starts for Babsiella_24:
(Start: 105 @22531 has 433 MA's), (131, 22633), (146, 22684), (151, 22699), (156, 22714), (169, 22774), (178, 22810), (192, 22861),

Gene: BabyMoney_30 Start: 27055, Stop: 27417, Start Num: 106
Candidate Starts for BabyMoney_30:
(Start: 106 @27055 has 47 MA's), (180, 27340), (190, 27379),

Gene: BaghaKamala_29 Start: 24382, Stop: 24753, Start Num: 105
Candidate Starts for BaghaKamala_29:
(Start: 105 @24382 has 433 MA's), (138, 24544), (158, 24598), (162, 24616), (190, 24718),

Gene: BananenDer11_28 Start: 25131, Stop: 25529, Start Num: 105
Candidate Starts for BananenDer11_28:
(Start: 105 @25131 has 433 MA's), (145, 25299), (151, 25335), (160, 25362), (173, 25428), (180, 25452), (188, 25485), (193, 25506),

Gene: Barnyard_38 Start: 30926, Stop: 31300, Start Num: 106
Candidate Starts for Barnyard_38:
(Start: 106 @30926 has 47 MA's), (119, 30974), (124, 30989), (134, 31073), (151, 31124), (159, 31148), (169, 31184), (183, 31241), (190, 31268),

Gene: BarrelRoll_29 Start: 24405, Stop: 24776, Start Num: 105
Candidate Starts for BarrelRoll_29:
(Start: 105 @24405 has 433 MA's), (138, 24567), (158, 24621), (162, 24639), (190, 24741),

Gene: Bartholomew_24 Start: 22517, Stop: 22879, Start Num: 105
Candidate Starts for Bartholomew_24:
(Start: 105 @22517 has 433 MA's), (131, 22619), (151, 22685), (156, 22700), (169, 22760), (178, 22796), (192, 22847),

Gene: Batiatus_21 Start: 23049, Stop: 23390, Start Num: 107
Candidate Starts for Batiatus_21:
(24, 22725), (Start: 86 @22995 has 1 MA's), (Start: 107 @23049 has 250 MA's), (125, 23118), (154, 23244), (160, 23262), (177, 23334), (179, 23340), (185, 23367),

Gene: Beakin_22 Start: 22850, Stop: 23191, Start Num: 107
Candidate Starts for Beakin_22:
(24, 22526), (Start: 86 @22796 has 1 MA's), (Start: 107 @22850 has 250 MA's), (125, 22919), (154, 23045), (160, 23063), (177, 23135), (179, 23141), (185, 23168),

Gene: Beanstalk_22 Start: 23001, Stop: 23342, Start Num: 107
Candidate Starts for Beanstalk_22:
(24, 22677), (Start: 86 @22947 has 1 MA's), (Start: 107 @23001 has 250 MA's), (125, 23070), (154, 23196), (160, 23214), (177, 23286), (179, 23292), (185, 23319),

Gene: BearBQ_31 Start: 25242, Stop: 25586, Start Num: 106
Candidate Starts for BearBQ_31:
(Start: 106 @25242 has 47 MA's), (110, 25263), (128, 25353), (143, 25419), (150, 25434), (154, 25446), (159, 25461), (162, 25476), (171, 25515), (178, 25536), (185, 25560),

Gene: Beaver_35 Start: 39015, Stop: 39380, Start Num: 105
Candidate Starts for Beaver_35:
(Start: 105 @39015 has 433 MA's), (125, 39084), (151, 39204), (156, 39219),

Gene: Beezoo_29 Start: 24430, Stop: 24801, Start Num: 105
Candidate Starts for Beezoo_29:
(Start: 105 @24430 has 433 MA's), (138, 24592), (158, 24646), (190, 24766),

Gene: Bella96_29 Start: 24361, Stop: 24732, Start Num: 105
Candidate Starts for Bella96_29:
(Start: 105 @24361 has 433 MA's), (135, 24517), (138, 24523), (158, 24577), (169, 24616), (190, 24697),

Gene: Belladonna_29 Start: 24453, Stop: 24824, Start Num: 105
Candidate Starts for Belladonna_29:
(Start: 105 @24453 has 433 MA's), (138, 24615), (158, 24669), (162, 24687), (190, 24789),

Gene: Bern_29 Start: 24373, Stop: 24744, Start Num: 105
Candidate Starts for Bern_29:
(Start: 105 @24373 has 433 MA's), (138, 24535), (158, 24589), (162, 24607), (169, 24628), (178, 24667), (190, 24709),

Gene: Bernal13_26 Start: 23250, Stop: 23579, Start Num: 111
Candidate Starts for Bernal13_26:
(31, 22935), (Start: 107 @23229 has 250 MA's), (Start: 111 @23250 has 2 MA's), (124, 23292), (175, 23499),

Gene: Berries_32 Start: 39505, Stop: 39870, Start Num: 105
Candidate Starts for Berries_32:
(Start: 105 @39505 has 433 MA's), (113, 39535), (120, 39556), (152, 39697), (156, 39709), (158, 39715), (172, 39772), (175, 39778), (192, 39844), (196, 39862),

Gene: BetterKatz_28 Start: 24663, Stop: 25031, Start Num: 103
Candidate Starts for BetterKatz_28:
(Start: 103 @24663 has 17 MA's), (151, 24837),

Gene: Bhagsy_24 Start: 22524, Stop: 22886, Start Num: 105
Candidate Starts for Bhagsy_24:

(Start: 105 @22524 has 433 MA's), (131, 22626), (146, 22677), (151, 22692), (156, 22707), (169, 22767), (178, 22803), (192, 22854),

Gene: BiPauneto_48 Start: 35826, Stop: 36170, Start Num: 105
Candidate Starts for BiPauneto_48:
(14, 35349), (17, 35388), (21, 35439), (36, 35568), (56, 35679), (71, 35721), (77, 35739), (91, 35784), (Start: 105 @35826 has 433 MA's), (151, 35997), (167, 36042),

Gene: Bianmat_32 Start: 39545, Stop: 39910, Start Num: 105
Candidate Starts for Bianmat_32:
(Start: 105 @39545 has 433 MA's), (113, 39575), (120, 39596), (152, 39737), (156, 39749), (158, 39755), (172, 39812), (175, 39818), (192, 39884), (196, 39902),

Gene: BigNuz_24 Start: 23148, Stop: 23510, Start Num: 105
Candidate Starts for BigNuz_24:
(Start: 105 @23148 has 433 MA's), (131, 23250), (164, 23358), (180, 23433), (182, 23442), (190, 23472), (192, 23478),

Gene: Biglebops_25 Start: 23944, Stop: 24318, Start Num: 105
Candidate Starts for Biglebops_25:
(Start: 105 @23944 has 433 MA's), (114, 23980), (123, 24007), (152, 24145), (186, 24274), (190, 24283),

Gene: BillyBobJr_36 Start: 39042, Stop: 39407, Start Num: 105
Candidate Starts for BillyBobJr_36:
(Start: 105 @39042 has 433 MA's), (152, 39234), (156, 39246), (158, 39252),

Gene: Bipper_30 Start: 27679, Stop: 28077, Start Num: 105
Candidate Starts for Bipper_30:
(Start: 105 @27679 has 433 MA's), (164, 27925), (181, 28006), (192, 28045),

Gene: BirksAndSocks_35 Start: 38989, Stop: 39354, Start Num: 105
Candidate Starts for BirksAndSocks_35:
(Start: 105 @38989 has 433 MA's), (152, 39181), (156, 39193), (158, 39199),

Gene: BirthdayBoy_35 Start: 30606, Stop: 30971, Start Num: 105
Candidate Starts for BirthdayBoy_35:
(Start: 105 @30606 has 433 MA's), (129, 30702), (138, 30747), (160, 30804), (166, 30834), (180, 30894), (190, 30933), (198, 30966),

Gene: Blarby_29 Start: 23274, Stop: 23615, Start Num: 107
Candidate Starts for Blarby_29:
(24, 22950), (Start: 86 @23220 has 1 MA's), (Start: 107 @23274 has 250 MA's), (125, 23343), (154, 23469), (160, 23487), (177, 23559), (179, 23565), (185, 23592),

Gene: Blexus_21 Start: 23187, Stop: 23528, Start Num: 107
Candidate Starts for Blexus_21:
(24, 22863), (Start: 86 @23133 has 1 MA's), (Start: 107 @23187 has 250 MA's), (125, 23256), (154, 23382), (160, 23400), (177, 23472), (179, 23478), (185, 23505),

Gene: Blizzard_29 Start: 24453, Stop: 24824, Start Num: 105
Candidate Starts for Blizzard_29:
(Start: 105 @24453 has 433 MA's), (138, 24615), (158, 24669), (190, 24789),

Gene: BloominB_28 Start: 24633, Stop: 24989, Start Num: 105
Candidate Starts for BloominB_28:
(Start: 105 @24633 has 433 MA's), (120, 24684), (125, 24702), (128, 24741), (136, 24792), (138, 24795), (151, 24813), (156, 24828), (169, 24873), (178, 24909), (181, 24921), (192, 24957),

Gene: BlueCrab_21 Start: 23165, Stop: 23506, Start Num: 107
Candidate Starts for BlueCrab_21:
(Start: 107 @23165 has 250 MA's), (125, 23234), (154, 23360), (160, 23378), (177, 23450), (179, 23456), (185, 23483),

Gene: Bluvara_24 Start: 22598, Stop: 22960, Start Num: 105
Candidate Starts for Bluvara_24:
(Start: 105 @22598 has 433 MA's), (131, 22700), (151, 22766), (156, 22781), (169, 22841), (173, 22859), (192, 22928),

Gene: BobaPhett_21 Start: 23034, Stop: 23375, Start Num: 107
Candidate Starts for BobaPhett_21:
(49, 22848), (Start: 86 @22974 has 1 MA's), (Start: 107 @23034 has 250 MA's), (125, 23103), (150, 23217), (170, 23289), (179, 23325), (190, 23364),

Gene: Bobi_23 Start: 23588, Stop: 23929, Start Num: 107
Candidate Starts for Bobi_23:
(24, 23264), (Start: 86 @23534 has 1 MA's), (Start: 107 @23588 has 250 MA's), (125, 23657), (154, 23783), (160, 23801), (177, 23873), (179, 23879), (185, 23906),

Gene: Bobquesha_31 Start: 25360, Stop: 25737, Start Num: 105
Candidate Starts for Bobquesha_31:
(23, 25015), (25, 25033), (32, 25075), (53, 25198), (57, 25219), (68, 25246), (82, 25288), (Start: 105 @25360 has 433 MA's), (125, 25432), (138, 25525), (160, 25585), (169, 25618), (181, 25669), (186, 25690), (190, 25699),

Gene: Bock_28 Start: 24413, Stop: 24781, Start Num: 103
Candidate Starts for Bock_28:
(Start: 103 @24413 has 17 MA's), (151, 24587),

Gene: BodEinwohner17_21 Start: 23170, Stop: 23511, Start Num: 107
Candidate Starts for BodEinwohner17_21:
(24, 22846), (Start: 86 @23116 has 1 MA's), (Start: 107 @23170 has 250 MA's), (125, 23239), (154, 23365), (160, 23383), (177, 23455), (179, 23461), (185, 23488),

Gene: Boiiii_29 Start: 24455, Stop: 24826, Start Num: 105
Candidate Starts for Boiiii_29:
(Start: 105 @24455 has 433 MA's), (138, 24617), (158, 24671), (190, 24791),

Gene: Boneham_35 Start: 38988, Stop: 39353, Start Num: 105
Candidate Starts for Boneham_35:
(Start: 105 @38988 has 433 MA's), (152, 39180), (156, 39192), (158, 39198),

Gene: Bongo_32 Start: 28085, Stop: 28447, Start Num: 105
Candidate Starts for Bongo_32:
(61, 27965), (75, 28001), (76, 28004), (80, 28016), (Start: 102 @28082 has 1 MA's), (Start: 105 @28085 has 433 MA's), (131, 28187), (138, 28223), (151, 28253), (164, 28295), (180, 28370), (182,

28379), (190, 28409),

Gene: Bonum_50 Start: 36974, Stop: 37318, Start Num: 105
Candidate Starts for Bonum_50:
(Start: 105 @36974 has 433 MA's), (150, 37142), (152, 37148), (178, 37241),

Gene: Boomer_22 Start: 22813, Stop: 23154, Start Num: 107
Candidate Starts for Boomer_22:
(Start: 86 @22759 has 1 MA's), (Start: 107 @22813 has 250 MA's), (125, 22882), (150, 22996), (160, 23026), (177, 23098), (179, 23104), (185, 23131),

Gene: BoostSeason_27 Start: 22730, Stop: 23098, Start Num: 106
Candidate Starts for BoostSeason_27:
(95, 22694), (Start: 106 @22730 has 47 MA's), (123, 22790), (125, 22799), (134, 22871), (138, 22892), (160, 22952), (169, 22985),

Gene: BotCity_33 Start: 24022, Stop: 24366, Start Num: 106
Candidate Starts for BotCity_33:
(Start: 106 @24022 has 47 MA's), (110, 24043), (128, 24133), (143, 24199), (150, 24214), (162, 24256), (171, 24295), (178, 24316), (185, 24340),

Gene: Bricole_32 Start: 28071, Stop: 28433, Start Num: 105
Candidate Starts for Bricole_32:
(61, 27951), (75, 27987), (76, 27990), (80, 28002), (Start: 102 @28068 has 1 MA's), (Start: 105 @28071 has 433 MA's), (131, 28173), (138, 28209), (151, 28239), (164, 28281), (180, 28356), (182, 28365), (190, 28395),

Gene: Bromden_24 Start: 23226, Stop: 23567, Start Num: 107
Candidate Starts for Bromden_24:
(Start: 107 @23226 has 250 MA's), (148, 23409), (162, 23454), (177, 23511), (185, 23541),

Gene: BronnyJr_24 Start: 22982, Stop: 23344, Start Num: 105
Candidate Starts for BronnyJr_24:
(Start: 105 @22982 has 433 MA's), (131, 23084), (151, 23150), (156, 23165), (169, 23225), (173, 23243), (192, 23312),

Gene: Brusacoram_24 Start: 22517, Stop: 22879, Start Num: 105
Candidate Starts for Brusacoram_24:
(Start: 105 @22517 has 433 MA's), (131, 22619), (146, 22670), (151, 22685), (156, 22700), (169, 22760), (178, 22796), (192, 22847),

Gene: Brushbloom_22 Start: 22882, Stop: 23223, Start Num: 107
Candidate Starts for Brushbloom_22:
(24, 22558), (Start: 86 @22828 has 1 MA's), (Start: 107 @22882 has 250 MA's), (125, 22951), (154, 23077), (160, 23095), (177, 23167), (179, 23173), (185, 23200),

Gene: Bryler_29 Start: 23849, Stop: 24205, Start Num: 105
Candidate Starts for Bryler_29:
(Start: 105 @23849 has 433 MA's), (123, 23909), (136, 24008), (158, 24050), (162, 24068), (169, 24089), (190, 24170),

Gene: Brylie_28 Start: 24404, Stop: 24772, Start Num: 103
Candidate Starts for Brylie_28:

(Start: 103 @24404 has 17 MA's), (151, 24578),

Gene: Bubbles123_22 Start: 23713, Stop: 24054, Start Num: 107
Candidate Starts for Bubbles123_22:
(24, 23389), (Start: 86 @23659 has 1 MA's), (Start: 107 @23713 has 250 MA's), (125, 23782), (154, 23908), (160, 23926), (177, 23998), (179, 24004),

Gene: Budski_32 Start: 24537, Stop: 24881, Start Num: 106
Candidate Starts for Budski_32:
(Start: 106 @24537 has 47 MA's), (110, 24558), (128, 24648), (143, 24714), (150, 24729), (159, 24756), (162, 24771), (171, 24810), (178, 24831), (185, 24855),

Gene: Buggaboo_48 Start: 37453, Stop: 37797, Start Num: 105
Candidate Starts for Buggaboo_48:
(Start: 105 @37453 has 433 MA's), (117, 37495), (152, 37627), (156, 37639), (169, 37684), (178, 37720), (194, 37777),

Gene: Bunnies_24 Start: 22539, Stop: 22901, Start Num: 105
Candidate Starts for Bunnies_24:
(Start: 105 @22539 has 433 MA's), (131, 22641), (146, 22692), (151, 22707), (156, 22722), (169, 22782), (178, 22818), (192, 22869),

Gene: Burwell21_21 Start: 23068, Stop: 23409, Start Num: 107
Candidate Starts for Burwell21_21:
(49, 22882), (Start: 86 @23008 has 1 MA's), (Start: 107 @23068 has 250 MA's), (125, 23137), (150, 23251), (170, 23323), (179, 23359), (190, 23398),

Gene: Butterball_35 Start: 38988, Stop: 39353, Start Num: 105
Candidate Starts for Butterball_35:
(Start: 105 @38988 has 433 MA's), (152, 39180), (156, 39192), (158, 39198),

Gene: Butters_24 Start: 21222, Stop: 21584, Start Num: 105
Candidate Starts for Butters_24:
(Start: 105 @21222 has 433 MA's), (151, 21390), (192, 21552),

Gene: BuzzLyseyear_23 Start: 23392, Stop: 23733, Start Num: 107
Candidate Starts for BuzzLyseyear_23:
(24, 23068), (Start: 86 @23338 has 1 MA's), (Start: 107 @23392 has 250 MA's), (125, 23461), (154, 23587), (160, 23605), (177, 23677), (179, 23683), (185, 23710),

Gene: ByChance_21 Start: 23045, Stop: 23386, Start Num: 107
Candidate Starts for ByChance_21:
(49, 22859), (Start: 86 @22985 has 1 MA's), (Start: 107 @23045 has 250 MA's), (125, 23114), (150, 23228), (170, 23300), (179, 23336), (190, 23375),

Gene: Byougenkin_21 Start: 23013, Stop: 23354, Start Num: 107
Candidate Starts for Byougenkin_21:
(24, 22689), (Start: 86 @22959 has 1 MA's), (Start: 107 @23013 has 250 MA's), (125, 23082), (154, 23208), (160, 23226), (177, 23298), (179, 23304), (185, 23331),

Gene: CREW_29 Start: 24453, Stop: 24824, Start Num: 105
Candidate Starts for CREW_29:
(Start: 105 @24453 has 433 MA's), (138, 24615), (158, 24669), (162, 24687), (190, 24789),

Gene: Cabrinians_21 Start: 23062, Stop: 23403, Start Num: 107
Candidate Starts for Cabrinians_21:
(49, 22876), (Start: 86 @23002 has 1 MA's), (Start: 107 @23062 has 250 MA's), (125, 23131), (150, 23245), (170, 23317), (179, 23353), (190, 23392),

Gene: CactusJack_24 Start: 22782, Stop: 23144, Start Num: 105
Candidate Starts for CactusJack_24:
(Start: 105 @22782 has 433 MA's), (131, 22884), (151, 22950), (188, 23100), (192, 23112),

Gene: Cain_29 Start: 23837, Stop: 24193, Start Num: 105
Candidate Starts for Cain_29:
(Start: 105 @23837 has 433 MA's), (123, 23897), (136, 23996), (158, 24038), (162, 24056), (169, 24077), (190, 24158),

Gene: CallaLilly_29 Start: 24376, Stop: 24747, Start Num: 105
Candidate Starts for CallaLilly_29:
(Start: 105 @24376 has 433 MA's), (138, 24538), (158, 24592), (162, 24610), (190, 24712),

Gene: Camster_24 Start: 22552, Stop: 22914, Start Num: 105
Candidate Starts for Camster_24:
(Start: 105 @22552 has 433 MA's), (131, 22654), (146, 22705), (151, 22720), (156, 22735), (169, 22795), (173, 22813), (192, 22882),

Gene: Capricorn_29 Start: 24453, Stop: 24824, Start Num: 105
Candidate Starts for Capricorn_29:
(Start: 105 @24453 has 433 MA's), (138, 24615), (158, 24669), (162, 24687), (190, 24789),

Gene: CaptainTrips_22 Start: 23693, Stop: 24034, Start Num: 107
Candidate Starts for CaptainTrips_22:
(24, 23369), (Start: 86 @23639 has 1 MA's), (Start: 107 @23693 has 250 MA's), (125, 23762), (154, 23888), (160, 23906), (177, 23978), (179, 23984), (185, 24011),

Gene: CaseJules_29 Start: 24453, Stop: 24824, Start Num: 105
Candidate Starts for CaseJules_29:
(Start: 105 @24453 has 433 MA's), (138, 24615), (158, 24669), (190, 24789),

Gene: Chancellor_30 Start: 25622, Stop: 25999, Start Num: 105
Candidate Starts for Chancellor_30:
(Start: 105 @25622 has 433 MA's), (125, 25694), (138, 25787), (156, 25835), (160, 25847), (169, 25880), (175, 25904), (181, 25931), (186, 25952), (190, 25961),

Gene: Charianelly_32 Start: 39255, Stop: 39620, Start Num: 105
Candidate Starts for Charianelly_32:
(Start: 105 @39255 has 433 MA's), (113, 39285), (120, 39306), (152, 39447), (156, 39459), (158, 39465), (172, 39522), (175, 39528), (192, 39594), (196, 39612),

Gene: Charminar_32 Start: 28476, Stop: 28841, Start Num: 105
Candidate Starts for Charminar_32:
(Start: 105 @28476 has 433 MA's), (131, 28581), (156, 28662), (190, 28803),

Gene: Chaser_22 Start: 22637, Stop: 22978, Start Num: 107
Candidate Starts for Chaser_22:

(Start: 107 @22637 has 250 MA's), (148, 22820), (162, 22865), (185, 22952),

Gene: Chavito_29 Start: 24081, Stop: 24455, Start Num: 105
Candidate Starts for Chavito_29:
(Start: 105 @24081 has 433 MA's), (114, 24117), (123, 24144), (160, 24306), (162, 24318), (169, 24339), (178, 24378), (190, 24420),

Gene: Che8_22 Start: 23027, Stop: 23368, Start Num: 107
Candidate Starts for Che8_22:
(Start: 86 @22973 has 1 MA's), (Start: 107 @23027 has 250 MA's), (154, 23222), (160, 23240), (177, 23312), (179, 23318), (185, 23345), (191, 23360),

Gene: Che9c_23 Start: 22654, Stop: 23016, Start Num: 105
Candidate Starts for Che9c_23:
(Start: 105 @22654 has 433 MA's), (116, 22696), (180, 22939), (182, 22948), (190, 22978),

Gene: Cheesepuff_23 Start: 23849, Stop: 24190, Start Num: 107
Candidate Starts for Cheesepuff_23:
(24, 23525), (Start: 86 @23795 has 1 MA's), (Start: 107 @23849 has 250 MA's), (125, 23918), (154, 24044), (160, 24062), (177, 24134), (179, 24140), (185, 24167),

Gene: CheetoDust_29 Start: 24430, Stop: 24801, Start Num: 105
Candidate Starts for CheetoDust_29:
(Start: 105 @24430 has 433 MA's), (138, 24592), (158, 24646), (162, 24664), (190, 24766),

Gene: Cheetobro_30 Start: 25619, Stop: 25996, Start Num: 105
Candidate Starts for Cheetobro_30:
(Start: 105 @25619 has 433 MA's), (125, 25691), (138, 25784), (156, 25832), (160, 25844), (169, 25877), (175, 25901), (181, 25928), (186, 25949), (190, 25958),

Gene: CherryTomatoes_127 Start: 83526, Stop: 83885, Start Num: 105
Candidate Starts for CherryTomatoes_127:
(Start: 105 @83526 has 433 MA's), (156, 83730), (166, 83757), (167, 83760),

Gene: Chevrolet_21 Start: 23039, Stop: 23380, Start Num: 107
Candidate Starts for Chevrolet_21:
(24, 22715), (Start: 86 @22985 has 1 MA's), (Start: 107 @23039 has 250 MA's), (154, 23234), (160, 23252), (177, 23324), (179, 23330), (185, 23357), (191, 23372),

Gene: ChickenDinner_22 Start: 22871, Stop: 23212, Start Num: 107
Candidate Starts for ChickenDinner_22:
(45, 22673), (46, 22676), (48, 22682), (50, 22685), (54, 22709), (90, 22823), (Start: 107 @22871 has 250 MA's), (125, 22940), (150, 23054), (160, 23084), (177, 23156), (179, 23162), (185, 23189),

Gene: Chop_28 Start: 24938, Stop: 25306, Start Num: 103
Candidate Starts for Chop_28:
(Start: 103 @24938 has 17 MA's), (151, 25112),

Gene: Chris_28 Start: 23689, Stop: 24063, Start Num: 105
Candidate Starts for Chris_28:
(Start: 105 @23689 has 433 MA's), (125, 23761), (138, 23854), (169, 23947), (193, 24043),

Gene: Chubbello_24 Start: 22516, Stop: 22878, Start Num: 105

Candidate Starts for Chubbello_24:
(Start: 105 @22516 has 433 MA's), (131, 22618), (146, 22669), (151, 22684), (156, 22699), (169, 22759), (178, 22795), (192, 22846),

Gene: Chuckly_21 Start: 23164, Stop: 23505, Start Num: 107
Candidate Starts for Chuckly_21:
(Start: 86 @23110 has 1 MA's), (Start: 107 @23164 has 250 MA's), (125, 23233), (154, 23359), (160, 23377), (177, 23449), (179, 23455), (185, 23482),

Gene: ChutneyChips_23 Start: 22823, Stop: 23164, Start Num: 107
Candidate Starts for ChutneyChips_23:
(Start: 107 @22823 has 250 MA's), (153, 23021), (162, 23051), (177, 23108), (185, 23138),

Gene: CinnamonToast_36 Start: 39042, Stop: 39407, Start Num: 105
Candidate Starts for CinnamonToast_36:
(Start: 105 @39042 has 433 MA's), (152, 39234), (156, 39246), (158, 39252),

Gene: Clipper_29 Start: 24430, Stop: 24801, Start Num: 105
Candidate Starts for Clipper_29:
(Start: 105 @24430 has 433 MA's), (138, 24592), (158, 24646), (162, 24664), (190, 24766),

Gene: Collard_28 Start: 25131, Stop: 25529, Start Num: 105
Candidate Starts for Collard_28:
(Start: 105 @25131 has 433 MA's), (145, 25299), (151, 25335), (160, 25362), (173, 25428), (180, 25452), (188, 25485), (193, 25506),

Gene: Commandaria_47 Start: 37436, Stop: 37780, Start Num: 105
Candidate Starts for Commandaria_47:
(Start: 105 @37436 has 433 MA's), (135, 37583), (151, 37607), (167, 37652),

Gene: Corium_21 Start: 23038, Stop: 23379, Start Num: 107
Candidate Starts for Corium_21:
(24, 22714), (Start: 86 @22984 has 1 MA's), (Start: 107 @23038 has 250 MA's), (125, 23107), (154, 23233), (160, 23251), (177, 23323), (179, 23329), (185, 23356),

Gene: Cornucopia_22 Start: 23036, Stop: 23377, Start Num: 107
Candidate Starts for Cornucopia_22:
(24, 22712), (Start: 86 @22982 has 1 MA's), (Start: 107 @23036 has 250 MA's), (125, 23105), (154, 23231), (160, 23249), (177, 23321), (179, 23327), (185, 23354), (191, 23369),

Gene: Cracklewink_30 Start: 27679, Stop: 28077, Start Num: 105
Candidate Starts for Cracklewink_30:
(Start: 105 @27679 has 433 MA's), (146, 27868), (164, 27925), (181, 28006),

Gene: Crater_30 Start: 23990, Stop: 24334, Start Num: 106
Candidate Starts for Crater_30:
(Start: 106 @23990 has 47 MA's), (110, 24011), (128, 24101), (143, 24167), (150, 24182), (159, 24209), (162, 24224), (171, 24263), (178, 24284), (185, 24308),

Gene: CrimD_29 Start: 24389, Stop: 24760, Start Num: 105
Candidate Starts for CrimD_29:
(Start: 105 @24389 has 433 MA's), (138, 24551), (158, 24605), (162, 24623), (190, 24725),

Gene: Curiosium_30 Start: 24179, Stop: 24580, Start Num: 105
Candidate Starts for Curiosium_30:
(Start: 105 @24179 has 433 MA's), (166, 24443), (169, 24461), (188, 24536),

Gene: DLane_21 Start: 22987, Stop: 23328, Start Num: 107
Candidate Starts for DLane_21:
(24, 22663), (Start: 86 @22933 has 1 MA's), (Start: 107 @22987 has 250 MA's), (125, 23056), (154, 23182), (160, 23200), (177, 23272), (179, 23278), (185, 23305),

Gene: DRBy19_21 Start: 23023, Stop: 23364, Start Num: 107
Candidate Starts for DRBy19_21:
(Start: 107 @23023 has 250 MA's), (125, 23092), (154, 23218), (160, 23236), (177, 23308), (179, 23314),

Gene: DS6A_28 Start: 24667, Stop: 25017, Start Num: 107
Candidate Starts for DS6A_28:
(Start: 107 @24667 has 250 MA's), (124, 24730), (143, 24844), (150, 24859), (154, 24871), (178, 24964), (179, 24967), (185, 24994),

Gene: DaWorst_23 Start: 23531, Stop: 23872, Start Num: 107
Candidate Starts for DaWorst_23:
(24, 23207), (Start: 86 @23477 has 1 MA's), (Start: 107 @23531 has 250 MA's), (125, 23600), (154, 23726), (160, 23744), (177, 23816), (179, 23822), (185, 23849), (191, 23864),

Gene: DaddyRickover_21 Start: 23169, Stop: 23510, Start Num: 107
Candidate Starts for DaddyRickover_21:
(24, 22845), (Start: 86 @23115 has 1 MA's), (Start: 107 @23169 has 250 MA's), (125, 23238), (154, 23364), (160, 23382), (177, 23454), (179, 23460), (185, 23487), (191, 23502),

Gene: Dadosky_29 Start: 25102, Stop: 25500, Start Num: 105
Candidate Starts for Dadosky_29:
(Start: 105 @25102 has 433 MA's), (142, 25264), (151, 25306), (160, 25333), (169, 25381), (173, 25399), (180, 25423), (188, 25456), (193, 25477),

Gene: Daegal_29 Start: 24927, Stop: 25283, Start Num: 105
Candidate Starts for Daegal_29:
(Start: 105 @24927 has 433 MA's), (120, 24978), (125, 24996), (128, 25035), (136, 25086), (138, 25089), (151, 25107), (156, 25122), (169, 25167), (178, 25203), (181, 25215), (192, 25251),

Gene: Daenerys_21 Start: 22997, Stop: 23338, Start Num: 107
Candidate Starts for Daenerys_21:
(Start: 107 @22997 has 250 MA's), (125, 23066), (154, 23192), (160, 23210), (177, 23282), (179, 23288), (185, 23315),

Gene: Dalmuri_29 Start: 24453, Stop: 24824, Start Num: 105
Candidate Starts for Dalmuri_29:
(Start: 105 @24453 has 433 MA's), (138, 24615), (158, 24669), (162, 24687), (190, 24789),

Gene: Damp_32 Start: 38419, Stop: 38784, Start Num: 105
Candidate Starts for Damp_32:
(Start: 105 @38419 has 433 MA's), (113, 38449), (120, 38470), (152, 38611), (156, 38623), (158, 38629), (172, 38686), (175, 38692), (192, 38758), (196, 38776),

Gene: Dante_21 Start: 23017, Stop: 23358, Start Num: 107
Candidate Starts for Dante_21:
(24, 22693), (Start: 86 @22963 has 1 MA's), (Start: 107 @23017 has 250 MA's), (125, 23086), (154, 23212), (160, 23230), (177, 23302), (179, 23308), (185, 23335),

Gene: Daredevil_39 Start: 35949, Stop: 36314, Start Num: 103
Candidate Starts for Daredevil_39:
(Start: 103 @35949 has 17 MA's), (135, 36084), (160, 36147), (164, 36162), (166, 36177), (169, 36195), (190, 36276),

Gene: DartGoblin_29 Start: 24358, Stop: 24729, Start Num: 105
Candidate Starts for DartGoblin_29:
(Start: 105 @24358 has 433 MA's), (135, 24514), (138, 24520), (158, 24574), (169, 24613), (190, 24694),

Gene: DarthP_28 Start: 24798, Stop: 25169, Start Num: 105
Candidate Starts for DarthP_28:
(Start: 105 @24798 has 433 MA's), (138, 24960), (158, 25014), (160, 25020), (181, 25104),

Gene: Dartin_29 Start: 23775, Stop: 24149, Start Num: 105
Candidate Starts for Dartin_29:
(Start: 105 @23775 has 433 MA's), (114, 23811), (123, 23838), (160, 24000), (162, 24012), (169, 24033), (190, 24114),

Gene: DaviePasture_34 Start: 30407, Stop: 30772, Start Num: 105
Candidate Starts for DaviePasture_34:
(Start: 105 @30407 has 433 MA's), (131, 30512), (135, 30542), (166, 30635), (175, 30674), (190, 30734), (198, 30767),

Gene: DeadP_21 Start: 23031, Stop: 23372, Start Num: 107
Candidate Starts for DeadP_21:
(24, 22707), (Start: 86 @22977 has 1 MA's), (Start: 107 @23031 has 250 MA's), (125, 23100), (154, 23226), (160, 23244), (177, 23316), (179, 23322), (185, 23349),

Gene: Deb65_21 Start: 22994, Stop: 23335, Start Num: 107
Candidate Starts for Deb65_21:
(Start: 107 @22994 has 250 MA's), (125, 23063), (154, 23189), (160, 23207), (177, 23279), (179, 23285), (185, 23312),

Gene: Deby_29 Start: 24387, Stop: 24758, Start Num: 105
Candidate Starts for Deby_29:
(Start: 105 @24387 has 433 MA's), (138, 24549), (158, 24603), (162, 24621), (190, 24723),

Gene: DeepSoil15_28 Start: 24633, Stop: 24989, Start Num: 105
Candidate Starts for DeepSoil15_28:
(Start: 105 @24633 has 433 MA's), (120, 24684), (125, 24702), (128, 24741), (136, 24792), (138, 24795), (151, 24813), (156, 24828), (169, 24873), (178, 24909), (181, 24921), (192, 24957),

Gene: DelRio_29 Start: 25409, Stop: 25777, Start Num: 103
Candidate Starts for DelRio_29:
(Start: 103 @25409 has 17 MA's), (118, 25460), (151, 25583),

Gene: Demikore_39 Start: 33091, Stop: 33456, Start Num: 105

Candidate Starts for Demikore_39:
(Start: 105 @33091 has 433 MA's), (125, 33166), (160, 33289), (164, 33304), (166, 33319), (180, 33379), (193, 33433), (198, 33451),

Gene: Devera_29 Start: 24432, Stop: 24803, Start Num: 105
Candidate Starts for Devera_29:
(Start: 105 @24432 has 433 MA's), (138, 24594), (158, 24648), (160, 24654), (169, 24687), (190, 24768),

Gene: Dewdrop_64 Start: 34457, Stop: 34810, Start Num: 107
Candidate Starts for Dewdrop_64:
(Start: 107 @34457 has 250 MA's), (117, 34499),

Gene: Dewey_28 Start: 24633, Stop: 24989, Start Num: 105
Candidate Starts for Dewey_28:
(Start: 105 @24633 has 433 MA's), (120, 24684), (125, 24702), (128, 24741), (136, 24792), (138, 24795), (151, 24813), (156, 24828), (169, 24873), (178, 24909), (181, 24921), (192, 24957),

Gene: Diabla_34 Start: 38845, Stop: 39210, Start Num: 105
Candidate Starts for Diabla_34:
(Start: 105 @38845 has 433 MA's), (113, 38875), (120, 38896), (152, 39037), (156, 39049), (158, 39055), (192, 39184), (196, 39202),

Gene: DillTech15_21 Start: 23035, Stop: 23376, Start Num: 107
Candidate Starts for DillTech15_21:
(24, 22711), (Start: 86 @22981 has 1 MA's), (Start: 107 @23035 has 250 MA's), (125, 23104), (154, 23230), (160, 23248), (177, 23320), (179, 23326), (185, 23353),

Gene: Diminimus_33 Start: 28084, Stop: 28446, Start Num: 105
Candidate Starts for Diminimus_33:
(61, 27964), (75, 28000), (76, 28003), (80, 28015), (Start: 102 @28081 has 1 MA's), (Start: 105 @28084 has 433 MA's), (131, 28186), (138, 28222), (151, 28252), (164, 28294), (180, 28369), (182, 28378), (190, 28408),

Gene: DirtMcgirt_22 Start: 22822, Stop: 23163, Start Num: 107
Candidate Starts for DirtMcgirt_22:
(Start: 86 @22768 has 1 MA's), (Start: 107 @22822 has 250 MA's), (125, 22891), (150, 23005), (160, 23035), (177, 23107), (179, 23113), (185, 23140), (191, 23155),

Gene: DismalFunk_27 Start: 22685, Stop: 23053, Start Num: 106
Candidate Starts for DismalFunk_27:
(95, 22649), (Start: 106 @22685 has 47 MA's), (134, 22826), (138, 22847), (160, 22907), (162, 22919), (169, 22940),

Gene: DismalStressor_27 Start: 22685, Stop: 23053, Start Num: 106
Candidate Starts for DismalStressor_27:
(95, 22649), (Start: 106 @22685 has 47 MA's), (134, 22826), (138, 22847), (160, 22907), (162, 22919), (169, 22940),

Gene: DoRead_21 Start: 22980, Stop: 23321, Start Num: 107
Candidate Starts for DoRead_21:
(Start: 107 @22980 has 250 MA's), (125, 23049), (150, 23163), (160, 23193), (170, 23235), (179, 23271),

Gene: DocMcStuffins_22 Start: 22871, Stop: 23212, Start Num: 107
Candidate Starts for DocMcStuffins_22:
(45, 22673), (46, 22676), (48, 22682), (50, 22685), (54, 22709), (90, 22823), (Start: 107 @22871 has 250 MA's), (125, 22940), (150, 23054), (160, 23084), (177, 23156), (179, 23162), (185, 23189),

Gene: Dogfish_31 Start: 27723, Stop: 28085, Start Num: 106
Candidate Starts for Dogfish_31:
(7, 27189), (8, 27192), (19, 27291), (Start: 106 @27723 has 47 MA's), (166, 27948),

Gene: Dole_29 Start: 24434, Stop: 24805, Start Num: 105
Candidate Starts for Dole_29:
(Start: 105 @24434 has 433 MA's), (138, 24596), (158, 24650), (160, 24656), (169, 24689), (190, 24770),

Gene: Donkeykong_21 Start: 23175, Stop: 23516, Start Num: 107
Candidate Starts for Donkeykong_21:
(24, 22851), (Start: 86 @23121 has 1 MA's), (Start: 107 @23175 has 250 MA's), (125, 23244), (154, 23370), (160, 23388), (177, 23460), (179, 23466), (185, 23493),

Gene: Donovan_24 Start: 22506, Stop: 22868, Start Num: 105
Candidate Starts for Donovan_24:
(Start: 105 @22506 has 433 MA's), (131, 22608), (146, 22659), (151, 22674), (156, 22689), (169, 22749), (178, 22785), (192, 22836),

Gene: DoobyDoo_33 Start: 29557, Stop: 29922, Start Num: 105
Candidate Starts for DoobyDoo_33:
(Start: 105 @29557 has 433 MA's), (166, 29785), (190, 29884), (198, 29917),

Gene: Doomphist_21 Start: 23135, Stop: 23476, Start Num: 107
Candidate Starts for Doomphist_21:
(24, 22811), (Start: 86 @23081 has 1 MA's), (Start: 107 @23135 has 250 MA's), (125, 23204), (154, 23330), (160, 23348), (177, 23420), (179, 23426), (185, 23453),

Gene: Doomslug_23 Start: 22856, Stop: 23197, Start Num: 107
Candidate Starts for Doomslug_23:
(24, 22532), (Start: 86 @22802 has 1 MA's), (Start: 107 @22856 has 250 MA's), (125, 22925), (154, 23051), (160, 23069), (177, 23141), (179, 23147), (185, 23174),

Gene: Dorothy_21 Start: 22955, Stop: 23296, Start Num: 107
Candidate Starts for Dorothy_21:
(Start: 107 @22955 has 250 MA's), (125, 23024), (154, 23150), (160, 23168), (177, 23240), (179, 23246), (185, 23273),

Gene: DosHalletts_22 Start: 22991, Stop: 23332, Start Num: 107
Candidate Starts for DosHalletts_22:
(49, 22805), (Start: 86 @22931 has 1 MA's), (Start: 107 @22991 has 250 MA's), (125, 23060), (150, 23174), (170, 23246), (179, 23282), (190, 23321),

Gene: DotProduct_21 Start: 23003, Stop: 23344, Start Num: 107
Candidate Starts for DotProduct_21:
(24, 22679), (Start: 86 @22949 has 1 MA's), (Start: 107 @23003 has 250 MA's), (125, 23072), (154, 23198), (160, 23216), (177, 23288), (179, 23294), (185, 23321),

Gene: DoubleChamp_28 Start: 25131, Stop: 25529, Start Num: 105
Candidate Starts for DoubleChamp_28:
(Start: 105 @25131 has 433 MA's), (145, 25299), (151, 25335), (160, 25362), (173, 25428), (180, 25452), (188, 25485), (193, 25506),

Gene: Doug_22 Start: 23547, Stop: 23888, Start Num: 107
Candidate Starts for Doug_22:
(Start: 107 @23547 has 250 MA's), (125, 23616), (154, 23742), (160, 23760), (177, 23832), (179, 23838), (185, 23865),

Gene: Douge_22 Start: 22575, Stop: 22916, Start Num: 107
Candidate Starts for Douge_22:
(Start: 107 @22575 has 250 MA's), (125, 22644), (139, 22740), (141, 22746), (148, 22758), (162, 22803), (177, 22860), (185, 22890),

Gene: Doughnut_27 Start: 22723, Stop: 23091, Start Num: 106
Candidate Starts for Doughnut_27:
(95, 22687), (Start: 106 @22723 has 47 MA's), (123, 22783), (125, 22792), (134, 22864), (138, 22885), (160, 22945), (169, 22978),

Gene: DrHayes_29 Start: 24379, Stop: 24750, Start Num: 105
Candidate Starts for DrHayes_29:
(Start: 105 @24379 has 433 MA's), (138, 24541), (158, 24595), (169, 24634),

Gene: DrLupo_40 Start: 31314, Stop: 31688, Start Num: 106
Candidate Starts for DrLupo_40:
(Start: 106 @31314 has 47 MA's), (125, 31383), (151, 31512), (169, 31572), (178, 31611), (190, 31656),

Gene: Drago_22 Start: 22820, Stop: 23161, Start Num: 107
Candidate Starts for Drago_22:
(24, 22496), (Start: 86 @22766 has 1 MA's), (Start: 107 @22820 has 250 MA's), (125, 22889), (154, 23015), (160, 23033), (177, 23105), (179, 23111), (185, 23138),

Gene: Duke13_39 Start: 35346, Stop: 35741, Start Num: 86
Candidate Starts for Duke13_39:
(24, 35076), (Start: 86 @35346 has 1 MA's), (Start: 107 @35400 has 250 MA's), (125, 35469), (154, 35595), (160, 35613), (177, 35685), (179, 35691), (185, 35718),

Gene: Dulcita_33 Start: 28084, Stop: 28446, Start Num: 105
Candidate Starts for Dulcita_33:
(61, 27964), (75, 28000), (76, 28003), (80, 28015), (Start: 102 @28081 has 1 MA's), (Start: 105 @28084 has 433 MA's), (131, 28186), (138, 28222), (151, 28252), (164, 28294), (180, 28369), (182, 28378), (190, 28408),

Gene: DumpsterDude_24 Start: 23094, Stop: 23456, Start Num: 106
Candidate Starts for DumpsterDude_24:
(Start: 106 @23094 has 47 MA's), (132, 23202), (180, 23379),

Gene: Durfee_29 Start: 24453, Stop: 24824, Start Num: 105
Candidate Starts for Durfee_29:
(Start: 105 @24453 has 433 MA's), (138, 24615), (158, 24669), (190, 24789),

Gene: Dynamo_24 Start: 22906, Stop: 23268, Start Num: 105
Candidate Starts for Dynamo_24:
(Start: 105 @22906 has 433 MA's), (131, 23008), (151, 23074), (192, 23236),

Gene: DyoEdafos_23 Start: 22782, Stop: 23123, Start Num: 107
Candidate Starts for DyoEdafos_23:
(Start: 107 @22782 has 250 MA's), (148, 22965), (162, 23010), (177, 23067), (185, 23097),

Gene: Ecliptus_35 Start: 25974, Stop: 26321, Start Num: 106
Candidate Starts for Ecliptus_35:
(64, 25845), (Start: 102 @25968 has 1 MA's), (Start: 106 @25974 has 47 MA's), (110, 25995), (113, 26007), (128, 26085), (141, 26148), (143, 26151), (150, 26166), (154, 26178), (159, 26193), (162, 26208), (171, 26250), (178, 26271), (185, 26295),

Gene: Edugator_28 Start: 25101, Stop: 25499, Start Num: 105
Candidate Starts for Edugator_28:
(Start: 105 @25101 has 433 MA's), (142, 25263), (151, 25305), (160, 25332), (169, 25380), (173, 25398), (180, 25422), (188, 25455), (193, 25476),

Gene: Efra2_29 Start: 23669, Stop: 24040, Start Num: 105
Candidate Starts for Efra2_29:
(Start: 105 @23669 has 433 MA's), (134, 23810), (138, 23831), (158, 23885), (162, 23903), (169, 23924), (190, 24005),

Gene: Ein37_28 Start: 24633, Stop: 24989, Start Num: 105
Candidate Starts for Ein37_28:
(Start: 105 @24633 has 433 MA's), (120, 24684), (125, 24702), (128, 24741), (136, 24792), (138, 24795), (151, 24813), (156, 24828), (169, 24873), (178, 24909), (181, 24921), (192, 24957),

Gene: Eish_21 Start: 23137, Stop: 23478, Start Num: 107
Candidate Starts for Eish_21:
(Start: 107 @23137 has 250 MA's), (125, 23206), (150, 23320), (160, 23350), (177, 23422), (179, 23428), (185, 23455),

Gene: Ekdilam_26 Start: 24557, Stop: 24928, Start Num: 105
Candidate Starts for Ekdilam_26:
(Start: 105 @24557 has 433 MA's), (138, 24719), (158, 24773), (160, 24779), (181, 24863),

Gene: EleanorGeorge_21 Start: 23169, Stop: 23510, Start Num: 107
Candidate Starts for EleanorGeorge_21:
(24, 22845), (Start: 86 @23115 has 1 MA's), (Start: 107 @23169 has 250 MA's), (125, 23238), (154, 23364), (160, 23382), (177, 23454), (179, 23460), (185, 23487),

Gene: Elfy_79 Start: 44016, Stop: 44351, Start Num: 107
Candidate Starts for Elfy_79:
(100, 44004), (Start: 107 @44016 has 250 MA's), (157, 44214), (159, 44220),

Gene: Ellie_26 Start: 24559, Stop: 24930, Start Num: 105
Candidate Starts for Ellie_26:
(Start: 105 @24559 has 433 MA's), (113, 24589), (138, 24721), (158, 24775), (167, 24799), (169, 24814),

Gene: Emerson_29 Start: 24413, Stop: 24784, Start Num: 105
Candidate Starts for Emerson_29:
(Start: 105 @24413 has 433 MA's), (138, 24575), (158, 24629), (162, 24647), (190, 24749),

Gene: EmiMonkey_21 Start: 22953, Stop: 23294, Start Num: 107
Candidate Starts for EmiMonkey_21:
(24, 22629), (Start: 86 @22899 has 1 MA's), (Start: 107 @22953 has 250 MA's), (125, 23022), (150, 23136), (160, 23166), (177, 23238), (179, 23244), (185, 23271),

Gene: Emianna_46 Start: 37314, Stop: 37655, Start Num: 105
Candidate Starts for Emianna_46:
(Start: 105 @37314 has 433 MA's), (137, 37464), (152, 37488), (158, 37506), (159, 37509), (167, 37530), (169, 37545), (178, 37581), (188, 37614),

Gene: Emma_21 Start: 23049, Stop: 23390, Start Num: 107
Candidate Starts for Emma_21:
(24, 22725), (Start: 86 @22995 has 1 MA's), (Start: 107 @23049 has 250 MA's), (125, 23118), (154, 23244), (160, 23262), (177, 23334), (179, 23340), (185, 23367),

Gene: Emmaloid_22 Start: 22799, Stop: 23140, Start Num: 107
Candidate Starts for Emmaloid_22:
(24, 22475), (Start: 86 @22745 has 1 MA's), (Start: 107 @22799 has 250 MA's), (125, 22868), (150, 22982), (160, 23012), (177, 23084), (179, 23090), (185, 23117),

Gene: Empress_22 Start: 24346, Stop: 24687, Start Num: 107
Candidate Starts for Empress_22:
(Start: 107 @24346 has 250 MA's), (125, 24415), (154, 24541), (160, 24559), (177, 24631), (179, 24637), (185, 24664),

Gene: Enby_22 Start: 22820, Stop: 23161, Start Num: 107
Candidate Starts for Enby_22:
(24, 22496), (Start: 86 @22766 has 1 MA's), (Start: 107 @22820 has 250 MA's), (125, 22889), (154, 23015), (160, 23033), (177, 23105), (179, 23111), (185, 23138),

Gene: Enkosi_25 Start: 23944, Stop: 24318, Start Num: 105
Candidate Starts for Enkosi_25:
(Start: 105 @23944 has 433 MA's), (114, 23980), (123, 24007), (152, 24145), (186, 24274), (190, 24283),

Gene: Ennea_53 Start: 38314, Stop: 38658, Start Num: 105
Candidate Starts for Ennea_53:
(Start: 105 @38314 has 433 MA's), (117, 38356), (152, 38488), (156, 38500), (169, 38545), (178, 38581),

Gene: Enzomatic_23 Start: 23047, Stop: 23388, Start Num: 107
Candidate Starts for Enzomatic_23:
(24, 22723), (Start: 86 @22993 has 1 MA's), (Start: 107 @23047 has 250 MA's), (125, 23116), (154, 23242), (160, 23260), (177, 23332), (179, 23338), (185, 23365),

Gene: Eponine_31 Start: 26172, Stop: 26534, Start Num: 105
Candidate Starts for Eponine_31:
(Start: 105 @26172 has 433 MA's), (131, 26274), (151, 26340), (164, 26382), (169, 26415), (173, 26433), (188, 26490), (192, 26502),

Gene: Eradicator_21 Start: 23027, Stop: 23368, Start Num: 107
Candidate Starts for Eradicator_21:
(49, 22841), (Start: 86 @22967 has 1 MA's), (Start: 107 @23027 has 250 MA's), (125, 23096), (150, 23210), (170, 23282), (177, 23312), (179, 23318),

Gene: Erutan_34 Start: 30065, Stop: 30430, Start Num: 105
Candidate Starts for Erutan_34:
(Start: 105 @30065 has 433 MA's), (138, 30206), (160, 30263), (164, 30278), (166, 30293), (180, 30353), (190, 30392), (198, 30425),

Gene: Estes_37 Start: 29115, Stop: 29459, Start Num: 107
Candidate Starts for Estes_37:
(Start: 107 @29115 has 250 MA's), (133, 29253), (149, 29298), (150, 29301),

Gene: Etoile_24 Start: 22517, Stop: 22879, Start Num: 105
Candidate Starts for Etoile_24:
(Start: 105 @22517 has 433 MA's), (131, 22619), (146, 22670), (151, 22685), (156, 22700), (169, 22760), (178, 22796), (192, 22847),

Gene: Evanesce_28 Start: 24633, Stop: 24989, Start Num: 105
Candidate Starts for Evanesce_28:
(Start: 105 @24633 has 433 MA's), (120, 24684), (125, 24702), (128, 24741), (136, 24792), (138, 24795), (151, 24813), (156, 24828), (169, 24873), (178, 24909), (181, 24921), (192, 24957),

Gene: Ewald_31 Start: 27746, Stop: 28108, Start Num: 106
Candidate Starts for Ewald_31:
(Start: 106 @27746 has 47 MA's), (129, 27839), (166, 27971), (180, 28031), (192, 28076),

Gene: FF47_26 Start: 22689, Stop: 23051, Start Num: 105
Candidate Starts for FF47_26:
(Start: 105 @22689 has 433 MA's), (118, 22737), (126, 22767), (129, 22782), (131, 22791), (156, 22872), (160, 22884), (175, 22953), (180, 22974), (190, 23013), (192, 23019),

Gene: Faiyaz_29 Start: 27112, Stop: 27510, Start Num: 105
Candidate Starts for Faiyaz_29:
(9, 26608), (10, 26611), (15, 26662), (16, 26668), (26, 26791), (27, 26800), (28, 26803), (35, 26851), (37, 26854), (38, 26860), (47, 26923), (59, 26977), (61, 26980), (63, 26983), (65, 26986), (67, 26992), (75, 27016), (76, 27019), (78, 27025), (80, 27031), (Start: 105 @27112 has 433 MA's), (131, 27214), (140, 27262), (146, 27301), (164, 27358), (175, 27412), (180, 27433),

Gene: Fancypants_21 Start: 23003, Stop: 23344, Start Num: 107
Candidate Starts for Fancypants_21:
(Start: 86 @22949 has 1 MA's), (Start: 107 @23003 has 250 MA's), (125, 23072), (154, 23198), (160, 23216), (177, 23288), (179, 23294), (185, 23321),

Gene: Farewell_23 Start: 23531, Stop: 23893, Start Num: 105
Candidate Starts for Farewell_23:
(Start: 105 @23531 has 433 MA's), (180, 23816), (182, 23825), (190, 23855),

Gene: FarmResident_22 Start: 22619, Stop: 22960, Start Num: 107
Candidate Starts for FarmResident_22:

(Start: 107 @22619 has 250 MA's), (125, 22688), (139, 22784), (141, 22790), (148, 22802), (162, 22847), (177, 22904), (185, 22934),

Gene: Fastidio_21 Start: 22966, Stop: 23307, Start Num: 107
Candidate Starts for Fastidio_21:
(24, 22642), (Start: 86 @22912 has 1 MA's), (Start: 107 @22966 has 250 MA's), (125, 23035), (154, 23161), (160, 23179), (177, 23251), (179, 23257), (185, 23284),

Gene: Fefferhead_28 Start: 24759, Stop: 25130, Start Num: 105
Candidate Starts for Fefferhead_28:
(Start: 105 @24759 has 433 MA's), (113, 24789), (138, 24921), (158, 24975), (160, 24981),

Gene: FelixAlejandro_36 Start: 39186, Stop: 39551, Start Num: 105
Candidate Starts for FelixAlejandro_36:
(Start: 105 @39186 has 433 MA's), (152, 39378), (156, 39390), (158, 39396),

Gene: Feyre_28 Start: 24943, Stop: 25305, Start Num: 105
Candidate Starts for Feyre_28:
(Start: 105 @24943 has 433 MA's), (131, 25045), (156, 25126), (164, 25153), (169, 25186), (173, 25204), (188, 25261), (193, 25282),

Gene: Filuzino_21 Start: 22992, Stop: 23333, Start Num: 107
Candidate Starts for Filuzino_21:
(24, 22668), (Start: 86 @22938 has 1 MA's), (Start: 107 @22992 has 250 MA's), (125, 23061), (154, 23187), (160, 23205), (177, 23277), (179, 23283), (185, 23310),

Gene: Findley_27 Start: 22704, Stop: 23072, Start Num: 106
Candidate Starts for Findley_27:
(Start: 106 @22704 has 47 MA's), (123, 22764), (125, 22773), (134, 22845), (138, 22866), (160, 22926), (162, 22938), (169, 22959),

Gene: Fionnbharth_30 Start: 25612, Stop: 25989, Start Num: 105
Candidate Starts for Fionnbharth_30:
(Start: 105 @25612 has 433 MA's), (138, 25777), (156, 25825), (160, 25837), (169, 25870), (181, 25921), (186, 25942), (190, 25951),

Gene: Firehouse51_22 Start: 23558, Stop: 23899, Start Num: 107
Candidate Starts for Firehouse51_22:
(24, 23234), (Start: 86 @23504 has 1 MA's), (Start: 107 @23558 has 250 MA's), (125, 23627), (154, 23753), (160, 23771), (177, 23843), (179, 23849), (185, 23876),

Gene: FirstPlacePfu_24 Start: 22517, Stop: 22879, Start Num: 105
Candidate Starts for FirstPlacePfu_24:
(Start: 105 @22517 has 433 MA's), (131, 22619), (146, 22670), (151, 22685), (156, 22700), (169, 22760), (178, 22796), (192, 22847),

Gene: Fishburne_24 Start: 22517, Stop: 22879, Start Num: 105
Candidate Starts for Fishburne_24:
(Start: 105 @22517 has 433 MA's), (131, 22619), (146, 22670), (151, 22685), (156, 22700), (169, 22760), (178, 22796), (192, 22847),

Gene: Flapper_51 Start: 38025, Stop: 38366, Start Num: 105
Candidate Starts for Flapper_51:

(Start: 105 @38025 has 433 MA's), (137, 38175), (151, 38196), (159, 38220), (167, 38241), (178, 38292),

Gene: Flathead_22 Start: 22866, Stop: 23207, Start Num: 107
Candidate Starts for Flathead_22:
(24, 22542), (Start: 86 @22812 has 1 MA's), (Start: 107 @22866 has 250 MA's), (125, 22935), (154, 23061), (160, 23079), (177, 23151), (179, 23157), (185, 23184),

Gene: Float294_49 Start: 37756, Stop: 38100, Start Num: 105
Candidate Starts for Float294_49:
(Start: 105 @37756 has 433 MA's), (117, 37798), (152, 37930), (156, 37942), (169, 37987), (178, 38023),

Gene: Florinda_21 Start: 23013, Stop: 23354, Start Num: 107
Candidate Starts for Florinda_21:
(Start: 107 @23013 has 250 MA's), (125, 23082), (154, 23208), (160, 23226), (177, 23298), (179, 23304), (185, 23331),

Gene: Forge_28 Start: 24633, Stop: 24989, Start Num: 105
Candidate Starts for Forge_28:
(Start: 105 @24633 has 433 MA's), (120, 24684), (125, 24702), (128, 24741), (136, 24792), (138, 24795), (151, 24813), (156, 24828), (169, 24873), (178, 24909), (181, 24921), (192, 24957),

Gene: Foxboro_47 Start: 37820, Stop: 38161, Start Num: 105
Candidate Starts for Foxboro_47:
(Start: 105 @37820 has 433 MA's), (137, 37970), (152, 37994), (158, 38012), (159, 38015), (167, 38036), (169, 38051), (178, 38087), (188, 38120),

Gene: Francois_28 Start: 24427, Stop: 24795, Start Num: 103
Candidate Starts for Francois_28:
(Start: 103 @24427 has 17 MA's), (151, 24601),

Gene: Frankie_22 Start: 23112, Stop: 23453, Start Num: 107
Candidate Starts for Frankie_22:
(Start: 107 @23112 has 250 MA's), (150, 23295), (160, 23325), (177, 23397), (185, 23430),

Gene: FreakyGoo_33 Start: 28085, Stop: 28447, Start Num: 105
Candidate Starts for FreakyGoo_33:
(61, 27965), (75, 28001), (76, 28004), (80, 28016), (Start: 102 @28082 has 1 MA's), (Start: 105 @28085 has 433 MA's), (131, 28187), (138, 28223), (151, 28253), (164, 28295), (180, 28370), (182, 28379), (190, 28409),

Gene: FreddyB_21 Start: 23071, Stop: 23412, Start Num: 107
Candidate Starts for FreddyB_21:
(49, 22885), (Start: 86 @23011 has 1 MA's), (Start: 107 @23071 has 250 MA's), (125, 23140), (150, 23254), (170, 23326), (179, 23362), (190, 23401),

Gene: Fruitloop_21 Start: 23030, Stop: 23371, Start Num: 107
Candidate Starts for Fruitloop_21:
(24, 22706), (Start: 86 @22976 has 1 MA's), (Start: 107 @23030 has 250 MA's), (125, 23099), (154, 23225), (160, 23243), (177, 23315), (179, 23321), (185, 23348),

Gene: Fulcrum_35 Start: 30585, Stop: 30950, Start Num: 105

Candidate Starts for Fulcrum_35:
(Start: 105 @30585 has 433 MA's), (160, 30783), (164, 30798), (166, 30813), (190, 30912), (198, 30945),

Gene: Fury_54 Start: 36492, Stop: 36836, Start Num: 105
Candidate Starts for Fury_54:
(Start: 105 @36492 has 433 MA's), (151, 36663), (156, 36678),

Gene: GMA7_25 Start: 31966, Stop: 32343, Start Num: 99
Candidate Starts for GMA7_25:
(Start: 99 @31966 has 3 MA's), (113, 32011), (131, 32080), (138, 32116), (156, 32161), (160, 32173),

Gene: GOATification_35 Start: 30585, Stop: 30950, Start Num: 105
Candidate Starts for GOATification_35:
(Start: 105 @30585 has 433 MA's), (160, 30783), (164, 30798), (166, 30813), (190, 30912), (198, 30945),

Gene: GRU1_36 Start: 29572, Stop: 29913, Start Num: 105
Candidate Starts for GRU1_36:
(Start: 105 @29572 has 433 MA's), (137, 29722), (167, 29788),

Gene: GTE5_38 Start: 30882, Stop: 31223, Start Num: 105
Candidate Starts for GTE5_38:
(Start: 105 @30882 has 433 MA's), (137, 31032), (167, 31098),

Gene: GTE7_25 Start: 31997, Stop: 32374, Start Num: 99
Candidate Starts for GTE7_25:
(87, 31952), (Start: 99 @31997 has 3 MA's), (113, 32042), (131, 32111), (138, 32147), (156, 32192), (160, 32204),

Gene: GTE8_35 Start: 30569, Stop: 30913, Start Num: 105
Candidate Starts for GTE8_35:
(Start: 105 @30569 has 433 MA's), (117, 30611), (152, 30743), (169, 30800), (178, 30836),

Gene: GUmbie_21 Start: 23003, Stop: 23344, Start Num: 107
Candidate Starts for GUmbie_21:
(Start: 86 @22949 has 1 MA's), (Start: 107 @23003 has 250 MA's), (125, 23072), (150, 23186), (160, 23216), (177, 23288), (179, 23294), (185, 23321),

Gene: Gaia_24 Start: 25558, Stop: 25899, Start Num: 108
Candidate Starts for Gaia_24:
(29, 25261), (30, 25264), (33, 25282), (34, 25285), (42, 25348), (54, 25396), (58, 25414), (66, 25429), (69, 25441), (Start: 108 @25558 has 5 MA's), (150, 25741), (160, 25771), (170, 25813), (191, 25891),

Gene: Galactic_21 Start: 22995, Stop: 23336, Start Num: 107
Candidate Starts for Galactic_21:
(24, 22671), (Start: 86 @22941 has 1 MA's), (Start: 107 @22995 has 250 MA's), (125, 23064), (154, 23190), (160, 23208), (177, 23280), (179, 23286), (185, 23313),

Gene: GalacticEye_32 Start: 39217, Stop: 39582, Start Num: 105
Candidate Starts for GalacticEye_32:
(Start: 105 @39217 has 433 MA's), (113, 39247), (120, 39268), (152, 39409), (156, 39421), (158, 39427), (172, 39484), (175, 39490), (192, 39556), (196, 39574),

Gene: GaloreK_24 Start: 22513, Stop: 22875, Start Num: 105
Candidate Starts for GaloreK_24:
(Start: 105 @22513 has 433 MA's), (131, 22615), (151, 22681), (156, 22696), (169, 22756), (173, 22774), (192, 22843),

Gene: Gancho_27 Start: 24357, Stop: 24713, Start Num: 105
Candidate Starts for Gancho_27:
(Start: 105 @24357 has 433 MA's), (120, 24408), (125, 24426), (128, 24465), (136, 24516), (138, 24519), (151, 24537), (169, 24597), (178, 24633), (181, 24645), (192, 24681),

Gene: Gandalph_21 Start: 23077, Stop: 23418, Start Num: 107
Candidate Starts for Gandalph_21:
(49, 22891), (Start: 86 @23017 has 1 MA's), (Start: 107 @23077 has 250 MA's), (125, 23146), (150, 23260), (160, 23290), (170, 23332), (179, 23368),

Gene: Ganymede_30 Start: 24433, Stop: 24804, Start Num: 105
Candidate Starts for Ganymede_30:
(Start: 105 @24433 has 433 MA's), (138, 24595), (158, 24649), (162, 24667), (190, 24769),

Gene: GardenSalsa_36 Start: 28939, Stop: 29283, Start Num: 107
Candidate Starts for GardenSalsa_36:
(Start: 107 @28939 has 250 MA's), (133, 29077), (149, 29122), (150, 29125),

Gene: Gavriela_24 Start: 22782, Stop: 23144, Start Num: 105
Candidate Starts for Gavriela_24:
(Start: 105 @22782 has 433 MA's), (131, 22884), (151, 22950), (188, 23100), (192, 23112),

Gene: Genamy16_35 Start: 28883, Stop: 29248, Start Num: 105
Candidate Starts for Genamy16_35:
(Start: 105 @28883 has 433 MA's), (131, 28988), (156, 29069), (190, 29210),

Gene: GenevaB15_36 Start: 28984, Stop: 29328, Start Num: 107
Candidate Starts for GenevaB15_36:
(Start: 107 @28984 has 250 MA's), (150, 29170),

Gene: Gengar_28 Start: 25053, Stop: 25415, Start Num: 105
Candidate Starts for Gengar_28:
(Start: 105 @25053 has 433 MA's), (131, 25155), (156, 25236), (164, 25263), (169, 25296), (173, 25314), (188, 25371), (193, 25392),

Gene: Geraldini_29 Start: 24430, Stop: 24801, Start Num: 105
Candidate Starts for Geraldini_29:
(Start: 105 @24430 has 433 MA's), (138, 24592), (158, 24646), (162, 24664), (190, 24766), (193, 24781),

Gene: Geralt_21 Start: 22993, Stop: 23334, Start Num: 107
Candidate Starts for Geralt_21:
(Start: 107 @22993 has 250 MA's), (125, 23062), (154, 23188), (160, 23206), (177, 23278), (179, 23284), (185, 23311),

Gene: Getalong_33 Start: 25232, Stop: 25576, Start Num: 106
Candidate Starts for Getalong_33:

(Start: 106 @25232 has 47 MA's), (110, 25253), (128, 25343), (143, 25409), (150, 25424), (159, 25451), (162, 25466), (171, 25505), (178, 25526), (185, 25550),

Gene: Gibbin_35 Start: 30684, Stop: 31049, Start Num: 105
Candidate Starts for Gibbin_35:
(Start: 105 @30684 has 433 MA's), (166, 30912), (190, 31011), (198, 31044),

Gene: GigiOuiOui_21 Start: 23128, Stop: 23469, Start Num: 107
Candidate Starts for GigiOuiOui_21:
(Start: 86 @23074 has 1 MA's), (Start: 107 @23128 has 250 MA's), (125, 23197), (150, 23311), (160, 23341), (177, 23413), (179, 23419), (185, 23446), (191, 23461),

Gene: Giles_28 Start: 24633, Stop: 24989, Start Num: 105
Candidate Starts for Giles_28:
(Start: 105 @24633 has 433 MA's), (120, 24684), (125, 24702), (128, 24741), (136, 24792), (138, 24795), (151, 24813), (156, 24828), (169, 24873), (178, 24909), (181, 24921), (192, 24957),

Gene: Girafales_22 Start: 22821, Stop: 23162, Start Num: 107
Candidate Starts for Girafales_22:
(Start: 107 @22821 has 250 MA's), (125, 22890), (154, 23016), (160, 23034), (177, 23106), (179, 23112), (185, 23139),

Gene: Girr_21 Start: 22972, Stop: 23313, Start Num: 107
Candidate Starts for Girr_21:
(24, 22648), (Start: 86 @22918 has 1 MA's), (Start: 107 @22972 has 250 MA's), (125, 23041), (154, 23167), (160, 23185), (177, 23257), (179, 23263), (185, 23290),

Gene: Glaske_24 Start: 22782, Stop: 23144, Start Num: 105
Candidate Starts for Glaske_24:
(Start: 105 @22782 has 433 MA's), (131, 22884), (151, 22950), (188, 23100), (192, 23112),

Gene: Glaske16_33 Start: 28084, Stop: 28446, Start Num: 105
Candidate Starts for Glaske16_33:
(61, 27964), (75, 28000), (76, 28003), (80, 28015), (Start: 102 @28081 has 1 MA's), (Start: 105 @28084 has 433 MA's), (131, 28186), (138, 28222), (151, 28252), (164, 28294), (180, 28369), (182, 28378), (190, 28408),

Gene: Gonephishing_37 Start: 33512, Stop: 33853, Start Num: 107
Candidate Starts for Gonephishing_37:
(24, 33188), (Start: 86 @33458 has 1 MA's), (Start: 107 @33512 has 250 MA's), (125, 33581), (154, 33707), (160, 33725), (177, 33797), (179, 33803), (185, 33830),

Gene: Gorge_21 Start: 23038, Stop: 23379, Start Num: 107
Candidate Starts for Gorge_21:
(49, 22852), (Start: 86 @22978 has 1 MA's), (Start: 107 @23038 has 250 MA's), (125, 23107), (150, 23221), (170, 23293), (179, 23329), (190, 23368),

Gene: GrandSlam_28 Start: 24938, Stop: 25306, Start Num: 103
Candidate Starts for GrandSlam_28:
(Start: 103 @24938 has 17 MA's), (151, 25112),

Gene: Gravaillia_28 Start: 24363, Stop: 24719, Start Num: 105
Candidate Starts for Gravaillia_28:

(Start: 105 @24363 has 433 MA's), (120, 24414), (125, 24432), (128, 24471), (136, 24522), (138, 24525), (151, 24543), (169, 24603), (178, 24639), (181, 24651), (192, 24687),

Gene: GretelLyn_34 Start: 30949, Stop: 31314, Start Num: 105
Candidate Starts for GretelLyn_34:
(Start: 105 @30949 has 433 MA's), (131, 31054), (135, 31084), (160, 31147), (166, 31177), (175, 31216), (190, 31276), (198, 31309),

Gene: Grimmer_22 Start: 23604, Stop: 23945, Start Num: 107
Candidate Starts for Grimmer_22:
(24, 23280), (Start: 86 @23550 has 1 MA's), (Start: 107 @23604 has 250 MA's), (150, 23787), (160, 23817), (177, 23889), (179, 23895), (185, 23922),

Gene: GrootJr_48 Start: 36696, Stop: 37037, Start Num: 105
Candidate Starts for GrootJr_48:
(Start: 105 @36696 has 433 MA's), (137, 36846), (152, 36870), (158, 36888), (159, 36891), (167, 36912), (169, 36927), (178, 36963), (188, 36996),

Gene: Gsput1_27 Start: 22779, Stop: 23123, Start Num: 105
Candidate Starts for Gsput1_27:
(Start: 105 @22779 has 433 MA's), (150, 22947), (178, 23046), (184, 23064), (190, 23088), (192, 23094),

Gene: Guanica15_29 Start: 23686, Stop: 24057, Start Num: 105
Candidate Starts for Guanica15_29:
(Start: 105 @23686 has 433 MA's), (134, 23827), (138, 23848), (158, 23902), (162, 23920), (169, 23941), (190, 24022),

Gene: Guillaume_32 Start: 39267, Stop: 39632, Start Num: 105
Candidate Starts for Guillaume_32:
(Start: 105 @39267 has 433 MA's), (113, 39297), (120, 39318), (152, 39459), (156, 39471), (158, 39477), (172, 39534), (175, 39540), (192, 39606), (196, 39624),

Gene: Guillsminger_28 Start: 25025, Stop: 25387, Start Num: 105
Candidate Starts for Guillsminger_28:
(Start: 105 @25025 has 433 MA's), (131, 25127), (156, 25208), (164, 25235), (169, 25268), (173, 25286), (180, 25310), (183, 25322), (188, 25343), (193, 25364),

Gene: Guppsters_22 Start: 23221, Stop: 23562, Start Num: 107
Candidate Starts for Guppsters_22:
(49, 23035), (Start: 86 @23161 has 1 MA's), (Start: 107 @23221 has 250 MA's), (125, 23290), (150, 23404), (160, 23434), (170, 23476), (179, 23512),

Gene: Gustav_27 Start: 21555, Stop: 21911, Start Num: 107
Candidate Starts for Gustav_27:
(Start: 107 @21555 has 250 MA's), (120, 21606), (161, 21777), (187, 21882),

Gene: HC_24 Start: 22587, Stop: 22949, Start Num: 105
Candidate Starts for HC_24:
(Start: 105 @22587 has 433 MA's), (131, 22689), (146, 22740), (151, 22755), (156, 22770), (169, 22830), (178, 22866), (192, 22917),

Gene: HH92_28 Start: 24633, Stop: 24989, Start Num: 105

Candidate Starts for HH92_28:
(Start: 105 @24633 has 433 MA's), (120, 24684), (125, 24702), (128, 24741), (136, 24792), (138, 24795), (151, 24813), (156, 24828), (169, 24873), (178, 24909), (181, 24921), (192, 24957),

Gene: HUHilltop_24 Start: 22517, Stop: 22879, Start Num: 105
Candidate Starts for HUHilltop_24:
(Start: 105 @22517 has 433 MA's), (131, 22619), (146, 22670), (151, 22685), (156, 22700), (169, 22760), (178, 22796), (192, 22847),

Gene: Hades_21 Start: 23070, Stop: 23411, Start Num: 107
Candidate Starts for Hades_21:
(49, 22884), (Start: 86 @23010 has 1 MA's), (Start: 107 @23070 has 250 MA's), (125, 23139), (150, 23253), (154, 23265), (170, 23325), (177, 23355), (179, 23361),

Gene: Hadrien_28 Start: 24633, Stop: 24989, Start Num: 105
Candidate Starts for Hadrien_28:
(Start: 105 @24633 has 433 MA's), (120, 24684), (125, 24702), (128, 24741), (136, 24792), (138, 24795), (151, 24813), (156, 24828), (169, 24873), (178, 24909), (181, 24921), (192, 24957),

Gene: Hail_28 Start: 24633, Stop: 24989, Start Num: 105
Candidate Starts for Hail_28:
(Start: 105 @24633 has 433 MA's), (120, 24684), (125, 24702), (128, 24741), (136, 24792), (138, 24795), (151, 24813), (156, 24828), (169, 24873), (178, 24909), (181, 24921), (192, 24957),

Gene: Hail2Pitt_32 Start: 39744, Stop: 40109, Start Num: 105
Candidate Starts for Hail2Pitt_32:
(Start: 105 @39744 has 433 MA's), (113, 39774), (120, 39795), (152, 39936), (156, 39948), (158, 39954), (172, 40011), (175, 40017), (192, 40083), (196, 40101),

Gene: Hammy_28 Start: 24789, Stop: 25160, Start Num: 105
Candidate Starts for Hammy_28:
(Start: 105 @24789 has 433 MA's), (138, 24951), (158, 25005), (160, 25011), (181, 25095),

Gene: Hamood_28 Start: 24938, Stop: 25306, Start Num: 103
Candidate Starts for Hamood_28:
(Start: 103 @24938 has 17 MA's), (151, 25112),

Gene: Hamulus_21 Start: 23004, Stop: 23345, Start Num: 107
Candidate Starts for Hamulus_21:
(24, 22680), (Start: 86 @22950 has 1 MA's), (Start: 107 @23004 has 250 MA's), (125, 23073), (154, 23199), (160, 23217), (177, 23289), (179, 23295), (185, 23322),

Gene: Harambe_32 Start: 39534, Stop: 39899, Start Num: 105
Candidate Starts for Harambe_32:
(Start: 105 @39534 has 433 MA's), (113, 39564), (120, 39585), (152, 39726), (156, 39738), (158, 39744), (172, 39801), (175, 39807), (192, 39873), (196, 39891),

Gene: Harley_21 Start: 22994, Stop: 23335, Start Num: 107
Candidate Starts for Harley_21:
(Start: 86 @22940 has 1 MA's), (Start: 107 @22994 has 250 MA's), (125, 23063), (154, 23189), (160, 23207), (177, 23279), (179, 23285), (185, 23312),

Gene: HayZem_34 Start: 37749, Stop: 38126, Start Num: 99

Candidate Starts for HayZem_34:
(87, 37704), (Start: 99 @37749 has 3 MA's), (113, 37794), (138, 37899), (156, 37944), (160, 37956),

Gene: HedwigODU_29 Start: 24422, Stop: 24793, Start Num: 105
Candidate Starts for HedwigODU_29:
(Start: 105 @24422 has 433 MA's), (138, 24584), (158, 24638), (162, 24656), (190, 24758),

Gene: Heftyboy_28 Start: 25173, Stop: 25535, Start Num: 105
Candidate Starts for Heftyboy_28:
(Start: 105 @25173 has 433 MA's), (131, 25275), (156, 25356), (164, 25383), (169, 25416), (173, 25434), (180, 25458), (183, 25470), (188, 25491), (193, 25512),

Gene: Hegedechwinu_22 Start: 22849, Stop: 23190, Start Num: 107
Candidate Starts for Hegedechwinu_22:
(24, 22525), (Start: 86 @22795 has 1 MA's), (Start: 107 @22849 has 250 MA's), (125, 22918), (154, 23044), (160, 23062), (177, 23134), (179, 23140), (185, 23167),

Gene: Heinz_28 Start: 21765, Stop: 22109, Start Num: 106
Candidate Starts for Heinz_28:
(64, 21636), (74, 21663), (Start: 106 @21765 has 47 MA's), (113, 21798), (128, 21876), (143, 21942), (150, 21957), (154, 21969), (178, 22059), (189, 22095),

Gene: Hello_32 Start: 39496, Stop: 39861, Start Num: 105
Candidate Starts for Hello_32:
(Start: 105 @39496 has 433 MA's), (113, 39526), (120, 39547), (152, 39688), (156, 39700), (158, 39706), (172, 39763), (175, 39769), (192, 39835), (196, 39853),

Gene: Hilltopfarm_29 Start: 27142, Stop: 27540, Start Num: 105
Candidate Starts for Hilltopfarm_29:
(9, 26638), (10, 26641), (15, 26692), (16, 26698), (26, 26821), (27, 26830), (28, 26833), (35, 26881), (37, 26884), (38, 26890), (47, 26953), (59, 27007), (61, 27010), (63, 27013), (65, 27016), (67, 27022), (75, 27046), (76, 27049), (78, 27055), (80, 27061), (Start: 105 @27142 has 433 MA's), (131, 27244), (140, 27292), (146, 27331), (164, 27388), (175, 27442), (180, 27463),

Gene: Hlubikazi_21 Start: 23096, Stop: 23437, Start Num: 107
Candidate Starts for Hlubikazi_21:
(24, 22772), (Start: 86 @23042 has 1 MA's), (Start: 107 @23096 has 250 MA's), (125, 23165), (154, 23291), (160, 23309), (177, 23381), (179, 23387), (185, 23414),

Gene: Holliday_32 Start: 24550, Stop: 24897, Start Num: 106
Candidate Starts for Holliday_32:
(64, 24421), (Start: 102 @24544 has 1 MA's), (Start: 106 @24550 has 47 MA's), (110, 24571), (113, 24583), (128, 24661), (141, 24724), (143, 24727), (150, 24742), (154, 24754), (159, 24769), (162, 24784), (171, 24826), (178, 24847), (185, 24871),

Gene: HomeFry_51 Start: 35124, Stop: 35468, Start Num: 105
Candidate Starts for HomeFry_51:
(Start: 105 @35124 has 433 MA's), (151, 35295), (156, 35310),

Gene: Homura_29 Start: 24453, Stop: 24824, Start Num: 105
Candidate Starts for Homura_29:
(Start: 105 @24453 has 433 MA's), (138, 24615), (158, 24669), (162, 24687), (190, 24789),

Gene: Horus_32 Start: 24478, Stop: 24822, Start Num: 106
Candidate Starts for Horus_32:
(Start: 106 @24478 has 47 MA's), (110, 24499), (128, 24589), (143, 24655), (150, 24670), (154, 24682), (159, 24697), (162, 24712), (171, 24751), (178, 24772), (185, 24796),

Gene: HubbaBubba_43 Start: 32844, Stop: 33188, Start Num: 105
Candidate Starts for HubbaBubba_43:
(Start: 105 @32844 has 433 MA's), (151, 33015), (167, 33060),

Gene: Hurricane_30 Start: 25339, Stop: 25695, Start Num: 105
Candidate Starts for Hurricane_30:
(Start: 105 @25339 has 433 MA's), (113, 25369), (123, 25399), (150, 25516), (158, 25540), (160, 25546), (162, 25558), (190, 25660),

Gene: Hyperbowlee_29 Start: 24453, Stop: 24824, Start Num: 105
Candidate Starts for Hyperbowlee_29:
(Start: 105 @24453 has 433 MA's), (138, 24615), (158, 24669), (190, 24789),

Gene: IDyn_47 Start: 34273, Stop: 34617, Start Num: 105
Candidate Starts for IDyn_47:
(Start: 105 @34273 has 433 MA's), (151, 34444), (167, 34489),

Gene: IMpilo_21 Start: 23031, Stop: 23372, Start Num: 107
Candidate Starts for IMpilo_21:
(24, 22707), (Start: 86 @22977 has 1 MA's), (Start: 107 @23031 has 250 MA's), (125, 23100), (154, 23226), (160, 23244), (177, 23316), (179, 23322), (185, 23349),

Gene: IPhane7_32 Start: 28085, Stop: 28447, Start Num: 105
Candidate Starts for IPhane7_32:
(61, 27965), (75, 28001), (76, 28004), (80, 28016), (Start: 102 @28082 has 1 MA's), (Start: 105 @28085 has 433 MA's), (131, 28187), (138, 28223), (151, 28253), (164, 28295), (180, 28370), (182, 28379), (190, 28409),

Gene: IbOuu_21 Start: 22998, Stop: 23339, Start Num: 107
Candidate Starts for IbOuu_21:
(24, 22674), (Start: 86 @22944 has 1 MA's), (Start: 107 @22998 has 250 MA's), (125, 23067), (154, 23193), (160, 23211), (177, 23283), (179, 23289), (185, 23316),

Gene: Ibhubesi_21 Start: 23001, Stop: 23342, Start Num: 107
Candidate Starts for Ibhubesi_21:
(Start: 107 @23001 has 250 MA's), (150, 23184), (160, 23214), (177, 23286), (179, 23292), (185, 23319),

Gene: Ibrahim_26 Start: 23229, Stop: 23579, Start Num: 107
Candidate Starts for Ibrahim_26:
(31, 22935), (Start: 107 @23229 has 250 MA's), (Start: 111 @23250 has 2 MA's), (124, 23292), (175, 23499),

Gene: IdentityCrisis_22 Start: 20106, Stop: 20483, Start Num: 105
Candidate Starts for IdentityCrisis_22:
(98, 20091), (Start: 105 @20106 has 433 MA's), (131, 20223), (146, 20274), (166, 20346), (192, 20451),

Gene: Illumine_29 Start: 24434, Stop: 24805, Start Num: 105
Candidate Starts for Illumine_29:
(Start: 105 @24434 has 433 MA's), (138, 24596), (158, 24650), (160, 24656), (169, 24689), (190, 24770),

Gene: Impisi_24 Start: 21428, Stop: 21790, Start Num: 105
Candidate Starts for Impisi_24:
(Start: 105 @21428 has 433 MA's), (131, 21530), (151, 21596), (156, 21611), (169, 21671), (173, 21689), (192, 21758),

Gene: Indlulamithi_30 Start: 27981, Stop: 28322, Start Num: 107
Candidate Starts for Indlulamithi_30:
(Start: 107 @27981 has 250 MA's), (148, 28164), (162, 28209), (174, 28254), (185, 28296),

Gene: Inky_29 Start: 24453, Stop: 24824, Start Num: 105
Candidate Starts for Inky_29:
(Start: 105 @24453 has 433 MA's), (138, 24615), (158, 24669), (162, 24687), (190, 24789),

Gene: Inventum_21 Start: 23129, Stop: 23470, Start Num: 107
Candidate Starts for Inventum_21:
(Start: 107 @23129 has 250 MA's), (125, 23198), (154, 23324), (160, 23342), (177, 23414), (179, 23420), (185, 23447), (191, 23462),

Gene: InvictusManeo_28 Start: 25174, Stop: 25572, Start Num: 105
Candidate Starts for InvictusManeo_28:
(Start: 105 @25174 has 433 MA's), (151, 25378), (160, 25405), (173, 25471), (180, 25495), (188, 25528), (193, 25549),

Gene: IrishSherpFalk_22 Start: 24358, Stop: 24699, Start Num: 107
Candidate Starts for IrishSherpFalk_22:
(24, 24034), (Start: 86 @24304 has 1 MA's), (Start: 107 @24358 has 250 MA's), (125, 24427), (154, 24553), (160, 24571), (177, 24643), (179, 24649), (185, 24676),

Gene: Izel_33 Start: 28084, Stop: 28446, Start Num: 105
Candidate Starts for Izel_33:
(61, 27964), (75, 28000), (76, 28003), (80, 28015), (Start: 102 @28081 has 1 MA's), (Start: 105 @28084 has 433 MA's), (131, 28186), (138, 28222), (151, 28252), (164, 28294), (180, 28369), (182, 28378), (190, 28408),

Gene: JAWS_29 Start: 24407, Stop: 24778, Start Num: 105
Candidate Starts for JAWS_29:
(Start: 105 @24407 has 433 MA's), (138, 24569), (158, 24623), (162, 24641), (190, 24743),

Gene: JF1_30 Start: 25611, Stop: 25988, Start Num: 105
Candidate Starts for JF1_30:
(Start: 105 @25611 has 433 MA's), (138, 25776), (156, 25824), (160, 25836), (169, 25869), (181, 25920), (186, 25941), (190, 25950),

Gene: JalFarm20_23 Start: 23368, Stop: 23709, Start Num: 107
Candidate Starts for JalFarm20_23:
(24, 23044), (Start: 86 @23314 has 1 MA's), (Start: 107 @23368 has 250 MA's), (125, 23437), (154, 23563), (160, 23581), (177, 23653), (179, 23659), (185, 23686),

Gene: Jalebi_33 Start: 31119, Stop: 31484, Start Num: 105
Candidate Starts for Jalebi_33:
(Start: 105 @31119 has 433 MA's), (166, 31347), (190, 31446), (198, 31479),

Gene: Jamemuya19_32 Start: 28473, Stop: 28838, Start Num: 105
Candidate Starts for Jamemuya19_32:
(Start: 105 @28473 has 433 MA's), (131, 28578), (156, 28659), (190, 28800),

Gene: James_21 Start: 23034, Stop: 23375, Start Num: 107
Candidate Starts for James_21:
(49, 22848), (Start: 86 @22974 has 1 MA's), (Start: 107 @23034 has 250 MA's), (125, 23103), (150, 23217), (170, 23289), (179, 23325), (190, 23364),

Gene: Jams_32 Start: 38705, Stop: 39070, Start Num: 105
Candidate Starts for Jams_32:
(Start: 105 @38705 has 433 MA's), (113, 38735), (120, 38756), (152, 38897), (156, 38909), (158, 38915), (172, 38972), (175, 38978), (192, 39044), (196, 39062),

Gene: Jant_21 Start: 23149, Stop: 23490, Start Num: 107
Candidate Starts for Jant_21:
(Start: 107 @23149 has 250 MA's), (125, 23218), (154, 23344), (160, 23362), (177, 23434), (179, 23440), (185, 23467),

Gene: Jarcob_21 Start: 23069, Stop: 23410, Start Num: 107
Candidate Starts for Jarcob_21:
(49, 22883), (Start: 86 @23009 has 1 MA's), (Start: 107 @23069 has 250 MA's), (125, 23138), (150, 23252), (170, 23324), (179, 23360), (190, 23399),

Gene: Jarvi_29 Start: 24453, Stop: 24824, Start Num: 105
Candidate Starts for Jarvi_29:
(Start: 105 @24453 has 433 MA's), (138, 24615), (158, 24669), (162, 24687), (190, 24789),

Gene: Jayhawk_29 Start: 24420, Stop: 24791, Start Num: 105
Candidate Starts for Jayhawk_29:
(Start: 105 @24420 has 433 MA's), (138, 24582), (158, 24636), (162, 24654), (190, 24756),

Gene: Jebeks_24 Start: 22502, Stop: 22864, Start Num: 105
Candidate Starts for Jebeks_24:
(Start: 105 @22502 has 433 MA's), (131, 22604), (146, 22655), (151, 22670), (156, 22685), (169, 22745), (178, 22781), (192, 22832),

Gene: Jeckyll_29 Start: 24453, Stop: 24824, Start Num: 105
Candidate Starts for Jeckyll_29:
(Start: 105 @24453 has 433 MA's), (138, 24615), (158, 24669), (162, 24687), (190, 24789),

Gene: Jellybones_35 Start: 39047, Stop: 39412, Start Num: 105
Candidate Starts for Jellybones_35:
(Start: 105 @39047 has 433 MA's), (152, 39239),

Gene: Jifall16_45 Start: 36968, Stop: 37309, Start Num: 105
Candidate Starts for Jifall16_45:
(Start: 105 @36968 has 433 MA's), (137, 37118), (152, 37142), (158, 37160), (159, 37163), (167, 37184), (169, 37199), (178, 37235), (188, 37268),

Gene: Jinglebell_20 Start: 23238, Stop: 23579, Start Num: 107
Candidate Starts for Jinglebell_20:
(Start: 107 @23238 has 250 MA's), (154, 23433), (160, 23451), (179, 23529),

Gene: Job42_24 Start: 24683, Stop: 25024, Start Num: 107
Candidate Starts for Job42_24:
(24, 24359), (Start: 86 @24629 has 1 MA's), (Start: 107 @24683 has 250 MA's), (125, 24752), (154, 24878), (160, 24896), (177, 24968), (179, 24974), (185, 25001),

Gene: JoeyJr_21 Start: 23165, Stop: 23506, Start Num: 107
Candidate Starts for JoeyJr_21:
(Start: 107 @23165 has 250 MA's), (125, 23234), (154, 23360), (160, 23378), (177, 23450), (179, 23456), (185, 23483),

Gene: John316_35 Start: 39000, Stop: 39365, Start Num: 105
Candidate Starts for John316_35:
(Start: 105 @39000 has 433 MA's), (152, 39192), (156, 39204), (158, 39210),

Gene: Jormungandr_32 Start: 39249, Stop: 39614, Start Num: 105
Candidate Starts for Jormungandr_32:
(Start: 105 @39249 has 433 MA's), (113, 39279), (120, 39300), (152, 39441), (156, 39453), (158, 39459), (172, 39516), (175, 39522), (192, 39588), (196, 39606),

Gene: Joy99_29 Start: 24382, Stop: 24753, Start Num: 105
Candidate Starts for Joy99_29:
(Start: 105 @24382 has 433 MA's), (138, 24544), (158, 24598), (162, 24616), (190, 24718),

Gene: JrWilcox_78 Start: 42717, Stop: 43064, Start Num: 107
Candidate Starts for JrWilcox_78:
(Start: 107 @42717 has 250 MA's),

Gene: Juice456_23 Start: 24120, Stop: 24461, Start Num: 107
Candidate Starts for Juice456_23:
(24, 23796), (Start: 86 @24066 has 1 MA's), (Start: 107 @24120 has 250 MA's), (125, 24189), (154, 24315), (160, 24333), (177, 24405), (179, 24411), (185, 24438),

Gene: Juliette_32 Start: 25747, Stop: 26109, Start Num: 105
Candidate Starts for Juliette_32:
(Start: 105 @25747 has 433 MA's), (131, 25849), (151, 25915), (192, 26077),

Gene: Jumbo_27 Start: 37792, Stop: 38157, Start Num: 105
Candidate Starts for Jumbo_27:
(Start: 105 @37792 has 433 MA's), (115, 37834), (120, 37849), (146, 37948), (175, 38059), (192, 38125),

Gene: Jung_24 Start: 22477, Stop: 22839, Start Num: 105
Candidate Starts for Jung_24:
(Start: 105 @22477 has 433 MA's), (131, 22579), (146, 22630), (151, 22645), (156, 22660), (169, 22720), (173, 22738), (192, 22807),

Gene: Juniormint_24 Start: 22561, Stop: 22923, Start Num: 105
Candidate Starts for Juniormint_24:

(Start: 105 @22561 has 433 MA's), (131, 22663), (146, 22714), (151, 22729), (156, 22744), (169, 22804), (178, 22840), (192, 22891),

Gene: Juniper1_21 Start: 22993, Stop: 23334, Start Num: 107
Candidate Starts for Juniper1_21:
(Start: 107 @22993 has 250 MA's), (150, 23176), (160, 23206), (177, 23278), (179, 23284), (185, 23311), (191, 23326),

Gene: JustASigh_23 Start: 23927, Stop: 24271, Start Num: 108
Candidate Starts for JustASigh_23:
(Start: 108 @23927 has 5 MA's), (114, 23960), (132, 24065), (151, 24119), (179, 24218),

Gene: Kabluna_50 Start: 36389, Stop: 36733, Start Num: 105
Candidate Starts for Kabluna_50:
(37, 36137), (82, 36323), (Start: 105 @36389 has 433 MA's), (150, 36557), (152, 36563), (178, 36656),

Gene: Kamaru_32 Start: 24550, Stop: 24897, Start Num: 106
Candidate Starts for Kamaru_32:
(64, 24421), (Start: 102 @24544 has 1 MA's), (Start: 106 @24550 has 47 MA's), (110, 24571), (113, 24583), (128, 24661), (141, 24724), (143, 24727), (150, 24742), (154, 24754), (159, 24769), (162, 24784), (171, 24826), (178, 24847), (185, 24871),

Gene: Karhdo_21 Start: 23129, Stop: 23470, Start Num: 107
Candidate Starts for Karhdo_21:
(24, 22805), (Start: 86 @23075 has 1 MA's), (Start: 107 @23129 has 250 MA's), (125, 23198), (154, 23324), (160, 23342), (177, 23414), (179, 23420), (185, 23447),

Gene: Kari_24 Start: 22517, Stop: 22879, Start Num: 105
Candidate Starts for Kari_24:
(Start: 105 @22517 has 433 MA's), (131, 22619), (146, 22670), (151, 22685), (156, 22700), (169, 22760), (173, 22778), (192, 22847),

Gene: Kaseim_32 Start: 38690, Stop: 39055, Start Num: 105
Candidate Starts for Kaseim_32:
(Start: 105 @38690 has 433 MA's), (113, 38720), (120, 38741), (152, 38882), (156, 38894), (158, 38900), (172, 38957), (175, 38963), (192, 39029), (196, 39047),

Gene: Kenna_31 Start: 24618, Stop: 24962, Start Num: 106
Candidate Starts for Kenna_31:
(88, 24567), (Start: 106 @24618 has 47 MA's), (110, 24639), (113, 24651), (128, 24729), (143, 24795), (150, 24810), (159, 24837), (162, 24852), (171, 24891), (178, 24912), (185, 24936),

Gene: Keshu_30 Start: 25333, Stop: 25689, Start Num: 105
Candidate Starts for Keshu_30:
(Start: 105 @25333 has 433 MA's), (113, 25363), (123, 25393), (150, 25510), (158, 25534), (160, 25540), (162, 25552), (169, 25573), (190, 25654),

Gene: Kevin1_24 Start: 21220, Stop: 21582, Start Num: 105
Candidate Starts for Kevin1_24:
(Start: 105 @21220 has 433 MA's), (151, 21388), (192, 21550),

Gene: Kheparia_31 Start: 24373, Stop: 24744, Start Num: 105
Candidate Starts for Kheparia_31:

(Start: 105 @24373 has 433 MA's), (138, 24535), (158, 24589), (162, 24607), (169, 24628), (178, 24667), (190, 24709),

Gene: KiSi_28 Start: 23569, Stop: 23943, Start Num: 105
Candidate Starts for KiSi_28:
(Start: 105 @23569 has 433 MA's), (125, 23641), (127, 23662), (138, 23734), (169, 23827),

Gene: KidneyBean_46 Start: 37092, Stop: 37433, Start Num: 105
Candidate Starts for KidneyBean_46:
(Start: 105 @37092 has 433 MA's), (137, 37242), (152, 37266), (158, 37284), (159, 37287), (167, 37308), (169, 37323), (178, 37359), (188, 37392),

Gene: KilKor_24 Start: 22782, Stop: 23144, Start Num: 105
Candidate Starts for KilKor_24:
(Start: 105 @22782 has 433 MA's), (131, 22884), (151, 22950), (188, 23100), (192, 23112),

Gene: Kimberlium_23 Start: 24120, Stop: 24461, Start Num: 107
Candidate Starts for Kimberlium_23:
(24, 23796), (Start: 86 @24066 has 1 MA's), (Start: 107 @24120 has 250 MA's), (125, 24189), (154, 24315), (160, 24333), (177, 24405), (179, 24411), (185, 24438),

Gene: Kinbote_28 Start: 24633, Stop: 24989, Start Num: 105
Candidate Starts for Kinbote_28:
(Start: 105 @24633 has 433 MA's), (120, 24684), (125, 24702), (128, 24741), (136, 24792), (138, 24795), (151, 24813), (156, 24828), (169, 24873), (178, 24909), (181, 24921), (192, 24957),

Gene: KingJulian_21 Start: 23038, Stop: 23379, Start Num: 107
Candidate Starts for KingJulian_21:
(24, 22714), (Start: 86 @22984 has 1 MA's), (Start: 107 @23038 has 250 MA's), (125, 23107), (154, 23233), (160, 23251), (177, 23323), (179, 23329), (185, 23356),

Gene: KingMidas_22 Start: 24298, Stop: 24639, Start Num: 107
Candidate Starts for KingMidas_22:
(Start: 107 @24298 has 250 MA's), (150, 24481), (160, 24511), (177, 24583), (179, 24589), (185, 24616),

Gene: KleverKiS_32 Start: 28065, Stop: 28427, Start Num: 105
Candidate Starts for KleverKiS_32:
(61, 27945), (75, 27981), (76, 27984), (80, 27996), (Start: 102 @28062 has 1 MA's), (Start: 105 @28065 has 433 MA's), (131, 28167), (138, 28203), (151, 28233), (164, 28275), (180, 28350), (182, 28359), (190, 28389),

Gene: Krakatau_22 Start: 23696, Stop: 24037, Start Num: 107
Candidate Starts for Krakatau_22:
(24, 23372), (Start: 86 @23642 has 1 MA's), (Start: 107 @23696 has 250 MA's), (125, 23765), (154, 23891), (160, 23909), (177, 23981), (179, 23987),

Gene: Kratio_27 Start: 24805, Stop: 25203, Start Num: 105
Candidate Starts for Kratio_27:
(Start: 105 @24805 has 433 MA's), (151, 25009), (160, 25036), (169, 25084), (173, 25102), (180, 25126), (188, 25159), (193, 25180),

Gene: Kraw_30 Start: 25535, Stop: 25912, Start Num: 105

Candidate Starts for Kraw_30:
(Start: 105 @25535 has 433 MA's), (138, 25700), (156, 25748), (160, 25760), (169, 25793), (181, 25844), (186, 25865), (190, 25874),

Gene: KristaRAM_22 Start: 23671, Stop: 24012, Start Num: 107
Candidate Starts for KristaRAM_22:
(24, 23347), (Start: 86 @23617 has 1 MA's), (Start: 107 @23671 has 250 MA's), (125, 23740), (154, 23866), (160, 23884), (177, 23956), (179, 23962), (185, 23989),

Gene: Kropertea_22 Start: 22589, Stop: 22930, Start Num: 107
Candidate Starts for Kropertea_22:
(Start: 107 @22589 has 250 MA's), (148, 22772), (162, 22817), (177, 22874), (185, 22904),

Gene: Krueger_29 Start: 23677, Stop: 24072, Start Num: 92
Candidate Starts for Krueger_29:
(Start: 92 @23677 has 1 MA's), (94, 23683), (Start: 105 @23716 has 433 MA's), (122, 23773), (123, 23776), (136, 23875), (158, 23917), (162, 23935), (190, 24037),

Gene: Ksquared_24 Start: 22539, Stop: 22901, Start Num: 105
Candidate Starts for Ksquared_24:
(Start: 105 @22539 has 433 MA's), (131, 22641), (146, 22692), (151, 22707), (156, 22722), (169, 22782), (178, 22818), (192, 22869),

Gene: Kurt_46 Start: 37329, Stop: 37670, Start Num: 105
Candidate Starts for Kurt_46:
(Start: 105 @37329 has 433 MA's), (137, 37479), (152, 37503), (158, 37521), (159, 37524), (167, 37545), (169, 37560), (178, 37596), (188, 37629),

Gene: Kuwabara_31 Start: 23829, Stop: 24173, Start Num: 106
Candidate Starts for Kuwabara_31:
(Start: 106 @23829 has 47 MA's), (110, 23850), (128, 23940), (143, 24006), (150, 24021), (154, 24033), (159, 24048), (162, 24063), (171, 24102), (178, 24123), (185, 24147),

Gene: Labelle_38 Start: 33093, Stop: 33458, Start Num: 105
Candidate Starts for Labelle_38:
(Start: 105 @33093 has 433 MA's), (125, 33168), (160, 33291), (164, 33306), (166, 33321), (180, 33381), (193, 33435), (198, 33453),

Gene: Lahirium_32 Start: 39771, Stop: 40136, Start Num: 105
Candidate Starts for Lahirium_32:
(Start: 105 @39771 has 433 MA's), (113, 39801), (120, 39822), (152, 39963), (156, 39975), (158, 39981), (172, 40038), (175, 40044), (192, 40110), (196, 40128),

Gene: Lambo_34 Start: 30604, Stop: 30969, Start Num: 105
Candidate Starts for Lambo_34:
(Start: 105 @30604 has 433 MA's), (129, 30700), (138, 30745), (160, 30802), (164, 30817), (166, 30832), (180, 30892), (190, 30931), (198, 30964),

Gene: Langerak_24 Start: 22501, Stop: 22863, Start Num: 105
Candidate Starts for Langerak_24:
(Start: 105 @22501 has 433 MA's), (131, 22603), (146, 22654), (151, 22669), (156, 22684), (169, 22744), (178, 22780), (192, 22831),

Gene: Larva_29 Start: 24969, Stop: 25367, Start Num: 105
Candidate Starts for Larva_29:
(Start: 105 @24969 has 433 MA's), (142, 25131), (151, 25173), (160, 25200), (169, 25248), (173, 25266), (180, 25290), (188, 25323), (193, 25344),

Gene: LastHope_29 Start: 23580, Stop: 23936, Start Num: 105
Candidate Starts for LastHope_29:
(Start: 105 @23580 has 433 MA's), (158, 23781), (169, 23820), (190, 23901),

Gene: LaterM_29 Start: 24351, Stop: 24722, Start Num: 105
Candidate Starts for LaterM_29:
(Start: 105 @24351 has 433 MA's), (138, 24513), (158, 24567), (160, 24573), (169, 24606), (190, 24687),

Gene: Latretium_22 Start: 23678, Stop: 24019, Start Num: 107
Candidate Starts for Latretium_22:
(24, 23354), (Start: 86 @23624 has 1 MA's), (Start: 107 @23678 has 250 MA's), (125, 23747), (154, 23873), (160, 23891), (177, 23963), (179, 23969), (185, 23996),

Gene: LavAbarElk_32 Start: 29058, Stop: 29423, Start Num: 105
Candidate Starts for LavAbarElk_32:
(Start: 105 @29058 has 433 MA's), (131, 29163), (166, 29286), (190, 29385), (198, 29418),

Gene: Lavahound_27 Start: 24451, Stop: 24822, Start Num: 105
Candidate Starts for Lavahound_27:
(Start: 105 @24451 has 433 MA's), (113, 24481), (118, 24496), (138, 24613), (158, 24667), (160, 24673),

Gene: LeMond_28 Start: 23640, Stop: 24014, Start Num: 105
Candidate Starts for LeMond_28:
(Start: 105 @23640 has 433 MA's), (125, 23712), (127, 23733), (138, 23805), (169, 23898),

Gene: Lea83_29 Start: 25042, Stop: 25398, Start Num: 105
Candidate Starts for Lea83_29:
(Start: 105 @25042 has 433 MA's), (113, 25072), (123, 25102), (158, 25243), (160, 25249), (169, 25282), (190, 25363),

Gene: Leaf_64 Start: 34457, Stop: 34810, Start Num: 107
Candidate Starts for Leaf_64:
(Start: 107 @34457 has 250 MA's), (117, 34499),

Gene: Lebo14_30 Start: 25625, Stop: 26002, Start Num: 105
Candidate Starts for Lebo14_30:
(Start: 105 @25625 has 433 MA's), (125, 25697), (138, 25790), (156, 25838), (160, 25850), (169, 25883), (175, 25907), (181, 25934), (186, 25955), (190, 25964),

Gene: Leozinho_22 Start: 22844, Stop: 23185, Start Num: 107
Candidate Starts for Leozinho_22:
(Start: 86 @22790 has 1 MA's), (Start: 107 @22844 has 250 MA's), (125, 22913), (150, 23027), (160, 23057), (177, 23129), (179, 23135), (185, 23162), (191, 23177),

Gene: Leperchaun_21 Start: 23051, Stop: 23392, Start Num: 107
Candidate Starts for Leperchaun_21:

(49, 22865), (Start: 86 @22991 has 1 MA's), (Start: 107 @23051 has 250 MA's), (125, 23120), (150, 23234), (170, 23306), (179, 23342),

Gene: Leroy_32 Start: 24479, Stop: 24823, Start Num: 106
Candidate Starts for Leroy_32:
(Start: 106 @24479 has 47 MA's), (110, 24500), (128, 24590), (143, 24656), (150, 24671), (154, 24683), (159, 24698), (162, 24713), (171, 24752), (178, 24773), (185, 24797),

Gene: Leston_28 Start: 25155, Stop: 25517, Start Num: 105
Candidate Starts for Leston_28:
(Start: 105 @25155 has 433 MA's), (131, 25257), (156, 25338), (164, 25365), (169, 25398), (173, 25416), (180, 25440), (183, 25452), (188, 25473), (193, 25494),

Gene: Lidong_32 Start: 39505, Stop: 39870, Start Num: 105
Candidate Starts for Lidong_32:
(Start: 105 @39505 has 433 MA's), (113, 39535), (120, 39556), (152, 39697), (156, 39709), (158, 39715), (172, 39772), (175, 39778), (192, 39844), (196, 39862),

Gene: LilDirt_27 Start: 24931, Stop: 25329, Start Num: 105
Candidate Starts for LilDirt_27:
(Start: 105 @24931 has 433 MA's), (145, 25099), (151, 25135), (160, 25162), (169, 25210), (173, 25228), (180, 25252), (188, 25285), (193, 25306),

Gene: LilHazelnut_28 Start: 24633, Stop: 24989, Start Num: 105
Candidate Starts for LilHazelnut_28:
(Start: 105 @24633 has 433 MA's), (120, 24684), (125, 24702), (128, 24741), (136, 24792), (138, 24795), (151, 24813), (156, 24828), (169, 24873), (178, 24909), (181, 24921), (192, 24957),

Gene: LilMoolah_21 Start: 23168, Stop: 23509, Start Num: 107
Candidate Starts for LilMoolah_21:
(49, 22982), (Start: 86 @23108 has 1 MA's), (Start: 107 @23168 has 250 MA's), (125, 23237), (150, 23351), (170, 23423), (179, 23459), (190, 23498),

Gene: LilPharaoh_25 Start: 23944, Stop: 24318, Start Num: 105
Candidate Starts for LilPharaoh_25:
(Start: 105 @23944 has 433 MA's), (114, 23980), (123, 24007), (152, 24145), (186, 24274), (190, 24283),

Gene: LilSpotty_21 Start: 17181, Stop: 17510, Start Num: 108
Candidate Starts for LilSpotty_21:
(Start: 108 @17181 has 5 MA's), (109, 17187), (121, 17235), (124, 17244), (130, 17295), (138, 17328), (152, 17358), (155, 17367), (162, 17394), (168, 17418), (179, 17460), (181, 17469), (190, 17499), (192, 17505),

Gene: Lila22_33 Start: 30559, Stop: 30924, Start Num: 105
Candidate Starts for Lila22_33:
(Start: 105 @30559 has 433 MA's), (129, 30655), (138, 30700), (160, 30757), (164, 30772), (166, 30787), (180, 30847), (198, 30919),

Gene: LilhomieP_31 Start: 28085, Stop: 28447, Start Num: 105
Candidate Starts for LilhomieP_31:
(61, 27965), (75, 28001), (76, 28004), (80, 28016), (Start: 102 @28082 has 1 MA's), (Start: 105 @28085 has 433 MA's), (131, 28187), (138, 28223), (151, 28253), (164, 28295), (180, 28370), (182,

28379), (190, 28409),

Gene: LindNT_29 Start: 24385, Stop: 24756, Start Num: 105
Candidate Starts for LindNT_29:
(Start: 105 @24385 has 433 MA's), (138, 24547), (158, 24601), (160, 24607), (162, 24619), (169, 24640), (190, 24721),

Gene: LitninMcQueen_31 Start: 24286, Stop: 24639, Start Num: 102
Candidate Starts for LitninMcQueen_31:
(Start: 102 @24286 has 1 MA's), (Start: 106 @24292 has 47 MA's), (110, 24313), (113, 24325), (128, 24403), (141, 24466), (143, 24469), (150, 24484), (154, 24496), (159, 24511), (178, 24589), (185, 24613),

Gene: LittleE_42 Start: 36591, Stop: 36932, Start Num: 107
Candidate Starts for LittleE_42:
(24, 36267), (Start: 86 @36537 has 1 MA's), (Start: 107 @36591 has 250 MA's), (125, 36660), (154, 36786), (160, 36804), (177, 36876), (179, 36882), (185, 36909),

Gene: LittleShirley_22 Start: 22819, Stop: 23160, Start Num: 107
Candidate Starts for LittleShirley_22:
(24, 22495), (Start: 86 @22765 has 1 MA's), (Start: 107 @22819 has 250 MA's), (125, 22888), (150, 23002), (160, 23032), (177, 23104), (179, 23110), (185, 23137),

Gene: Lizziana_21 Start: 23043, Stop: 23384, Start Num: 107
Candidate Starts for Lizziana_21:
(49, 22857), (Start: 86 @22983 has 1 MA's), (Start: 107 @23043 has 250 MA's), (125, 23112), (150, 23226), (170, 23298), (179, 23334), (190, 23373),

Gene: Llama_21 Start: 23238, Stop: 23579, Start Num: 107
Candidate Starts for Llama_21:
(Start: 107 @23238 has 250 MA's), (154, 23433), (160, 23451), (179, 23529),

Gene: Llij_21 Start: 22984, Stop: 23325, Start Num: 107
Candidate Starts for Llij_21:
(24, 22660), (Start: 86 @22930 has 1 MA's), (Start: 107 @22984 has 250 MA's), (125, 23053), (154, 23179), (160, 23197), (177, 23269), (179, 23275), (185, 23302),

Gene: Llorens_29 Start: 24453, Stop: 24824, Start Num: 105
Candidate Starts for Llorens_29:
(Start: 105 @24453 has 433 MA's), (138, 24615), (158, 24669), (162, 24687), (190, 24789),

Gene: Lokum_29 Start: 24454, Stop: 24825, Start Num: 105
Candidate Starts for Lokum_29:
(Start: 105 @24454 has 433 MA's), (138, 24616), (158, 24670), (162, 24688), (190, 24790),

Gene: Lollipop1437_52 Start: 38302, Stop: 38646, Start Num: 105
Candidate Starts for Lollipop1437_52:
(Start: 105 @38302 has 433 MA's), (117, 38344), (152, 38476), (156, 38488), (169, 38533), (178, 38569),

Gene: LongHai_27 Start: 23063, Stop: 23425, Start Num: 105
Candidate Starts for LongHai_27:

(Start: 105 @23063 has 433 MA's), (118, 23111), (126, 23141), (131, 23165), (156, 23246), (160, 23258), (175, 23327), (180, 23348), (190, 23387), (192, 23393),

Gene: LordVader_22 Start: 20710, Stop: 21072, Start Num: 105
Candidate Starts for LordVader_22:
(Start: 105 @20710 has 433 MA's), (131, 20812), (146, 20863), (151, 20878), (156, 20893), (169, 20953), (173, 20971), (188, 21028), (192, 21040),

Gene: Lorde_22 Start: 22820, Stop: 23161, Start Num: 107
Candidate Starts for Lorde_22:
(24, 22496), (Start: 86 @22766 has 1 MA's), (Start: 107 @22820 has 250 MA's), (125, 22889), (154, 23015), (160, 23033), (177, 23105), (179, 23111), (185, 23138),

Gene: Lucia_22 Start: 23085, Stop: 23426, Start Num: 107
Candidate Starts for Lucia_22:
(49, 22899), (Start: 86 @23025 has 1 MA's), (Start: 107 @23085 has 250 MA's), (120, 23136), (125, 23154), (150, 23268), (160, 23298), (170, 23340), (177, 23370), (179, 23376),

Gene: LuckyLeo_33 Start: 29925, Stop: 30290, Start Num: 105
Candidate Starts for LuckyLeo_33:
(Start: 105 @29925 has 433 MA's), (138, 30066), (164, 30138), (166, 30153), (180, 30213), (190, 30252), (198, 30285),

Gene: Luke_28 Start: 24588, Stop: 24944, Start Num: 105
Candidate Starts for Luke_28:
(Start: 105 @24588 has 433 MA's), (120, 24639), (125, 24657), (128, 24696), (136, 24747), (138, 24750), (151, 24768), (156, 24783), (169, 24828), (178, 24864), (181, 24876), (192, 24912),

Gene: Luker_33 Start: 39724, Stop: 40089, Start Num: 105
Candidate Starts for Luker_33:
(Start: 105 @39724 has 433 MA's), (113, 39754), (120, 39775), (152, 39916), (156, 39928), (158, 39934), (172, 39991), (175, 39997), (192, 40063), (196, 40081),

Gene: Luna22_28 Start: 24633, Stop: 24989, Start Num: 105
Candidate Starts for Luna22_28:
(Start: 105 @24633 has 433 MA's), (120, 24684), (125, 24702), (128, 24741), (136, 24792), (138, 24795), (151, 24813), (156, 24828), (169, 24873), (178, 24909), (181, 24921), (192, 24957),

Gene: LunaBlu_22 Start: 23078, Stop: 23419, Start Num: 107
Candidate Starts for LunaBlu_22:
(24, 22754), (Start: 86 @23024 has 1 MA's), (Start: 107 @23078 has 250 MA's), (125, 23147), (154, 23273), (160, 23291), (177, 23363), (179, 23369), (185, 23396),

Gene: Lunahalos_29 Start: 24453, Stop: 24824, Start Num: 105
Candidate Starts for Lunahalos_29:
(Start: 105 @24453 has 433 MA's), (138, 24615), (158, 24669), (162, 24687), (190, 24789),

Gene: Lutum_32 Start: 24618, Stop: 24962, Start Num: 106
Candidate Starts for Lutum_32:
(88, 24567), (Start: 106 @24618 has 47 MA's), (110, 24639), (113, 24651), (128, 24729), (143, 24795), (150, 24810), (159, 24837), (162, 24852), (171, 24891), (178, 24912), (185, 24936),

Gene: MacKat_29 Start: 24430, Stop: 24801, Start Num: 105

Candidate Starts for MacKat_29:
(Start: 105 @24430 has 433 MA's), (138, 24592), (158, 24646), (162, 24664), (190, 24766),

Gene: MacnCheese_30 Start: 25401, Stop: 25757, Start Num: 105
Candidate Starts for MacnCheese_30:
(Start: 105 @25401 has 433 MA's), (113, 25431), (123, 25461), (150, 25578), (158, 25602), (160, 25608), (162, 25620), (190, 25722),

Gene: Maco6_24 Start: 22023, Stop: 22385, Start Num: 105
Candidate Starts for Maco6_24:
(Start: 105 @22023 has 433 MA's), (118, 22071), (126, 22101), (129, 22116), (131, 22125), (156, 22206), (160, 22218), (175, 22287), (180, 22308), (190, 22347), (192, 22353),

Gene: Madruga_37 Start: 32762, Stop: 33127, Start Num: 105
Candidate Starts for Madruga_37:
(Start: 105 @32762 has 433 MA's), (125, 32837), (160, 32960), (164, 32975), (166, 32990), (180, 33050), (193, 33104), (198, 33122),

Gene: Magritte_25 Start: 23502, Stop: 23846, Start Num: 106
Candidate Starts for Magritte_25:
(Start: 106 @23502 has 47 MA's), (154, 23703), (170, 23763), (179, 23796),

Gene: Magritte_26 Start: 23861, Stop: 24211, Start Num: 197
Candidate Starts for Magritte_26:
(3, 22814), (13, 23015), (39, 23264), (62, 23372), (163, 23735), (Start: 197 @23861 has 1 MA's), (199, 24053), (200, 24065), (201, 24089),

Gene: Mahavrat_21 Start: 22990, Stop: 23331, Start Num: 107
Candidate Starts for Mahavrat_21:
(Start: 107 @22990 has 250 MA's), (150, 23173), (160, 23203), (177, 23275), (179, 23281), (185, 23308), (191, 23323),

Gene: Mahdia_27 Start: 20874, Stop: 21230, Start Num: 107
Candidate Starts for Mahdia_27:
(Start: 107 @20874 has 250 MA's), (109, 20880), (128, 20982), (157, 21081), (181, 21177), (190, 21210),

Gene: Majeke_24 Start: 22523, Stop: 22885, Start Num: 105
Candidate Starts for Majeke_24:
(Start: 105 @22523 has 433 MA's), (131, 22625), (146, 22676), (151, 22691), (156, 22706), (169, 22766), (178, 22802), (192, 22853),

Gene: MakCheese_25 Start: 22679, Stop: 23044, Start Num: 105
Candidate Starts for MakCheese_25:
(2, 21704), (6, 22112), (11, 22184), (12, 22187), (20, 22277), (Start: 105 @22679 has 433 MA's), (138, 22820), (160, 22877), (164, 22892), (180, 22967), (190, 23006), (192, 23012), (198, 23039),

Gene: MalagasyRose_29 Start: 23806, Stop: 24180, Start Num: 105
Candidate Starts for MalagasyRose_29:
(Start: 105 @23806 has 433 MA's), (125, 23878), (135, 23938), (144, 23965), (160, 24013), (164, 24028), (169, 24061), (180, 24103), (188, 24136), (190, 24142), (192, 24148), (193, 24157),

Gene: Malithi_24 Start: 22442, Stop: 22804, Start Num: 105

Candidate Starts for Malithi_24:
(Start: 105 @22442 has 433 MA's), (131, 22544), (146, 22595), (151, 22610), (156, 22625), (169, 22685), (178, 22721), (192, 22772),

Gene: Malthus_31 Start: 25535, Stop: 25912, Start Num: 105
Candidate Starts for Malthus_31:
(Start: 105 @25535 has 433 MA's), (138, 25700), (156, 25748), (160, 25760), (169, 25793), (181, 25844), (186, 25865), (190, 25874),

Gene: Mandlovu_21 Start: 23039, Stop: 23380, Start Num: 107
Candidate Starts for Mandlovu_21:
(24, 22715), (Start: 86 @22985 has 1 MA's), (Start: 107 @23039 has 250 MA's), (125, 23108), (154, 23234), (160, 23252), (177, 23324), (179, 23330), (185, 23357),

Gene: Mangethe_24 Start: 22523, Stop: 22885, Start Num: 105
Candidate Starts for Mangethe_24:
(Start: 105 @22523 has 433 MA's), (131, 22625), (146, 22676), (151, 22691), (156, 22706), (169, 22766), (178, 22802), (192, 22853),

Gene: Manilisa_33 Start: 28498, Stop: 28860, Start Num: 106
Candidate Starts for Manilisa_33:
(Start: 106 @28498 has 47 MA's), (129, 28591), (166, 28723), (180, 28783), (190, 28822),

Gene: Mantra_21 Start: 23097, Stop: 23438, Start Num: 107
Candidate Starts for Mantra_21:
(Start: 86 @23043 has 1 MA's), (Start: 107 @23097 has 250 MA's), (125, 23166), (150, 23280), (160, 23310), (177, 23382), (179, 23388), (185, 23415), (191, 23430),

Gene: Maravista_21 Start: 22944, Stop: 23285, Start Num: 107
Candidate Starts for Maravista_21:
(24, 22620), (Start: 86 @22890 has 1 MA's), (Start: 107 @22944 has 250 MA's), (125, 23013), (154, 23139), (160, 23157), (177, 23229), (179, 23235), (185, 23262),

Gene: Marcoliusprime_27 Start: 22685, Stop: 23053, Start Num: 106
Candidate Starts for Marcoliusprime_27:
(95, 22649), (Start: 106 @22685 has 47 MA's), (134, 22826), (138, 22847), (160, 22907), (162, 22919), (169, 22940),

Gene: Marietta_48 Start: 34164, Stop: 34508, Start Num: 105
Candidate Starts for Marietta_48:
(Start: 105 @34164 has 433 MA's), (151, 34335), (167, 34380),

Gene: MarkPhew_29 Start: 23541, Stop: 23915, Start Num: 105
Candidate Starts for MarkPhew_29:
(Start: 105 @23541 has 433 MA's), (125, 23613), (138, 23706), (169, 23799), (193, 23895),

Gene: Marker_22 Start: 22847, Stop: 23188, Start Num: 107
Candidate Starts for Marker_22:
(24, 22523), (Start: 86 @22793 has 1 MA's), (Start: 107 @22847 has 250 MA's), (125, 22916), (154, 23042), (160, 23060), (177, 23132), (179, 23138), (185, 23165), (191, 23180),

Gene: Marshawn_30 Start: 24186, Stop: 24560, Start Num: 105
Candidate Starts for Marshawn_30:

(Start: 105 @24186 has 433 MA's), (114, 24222), (125, 24258), (160, 24411), (167, 24429), (186, 24516),

Gene: Martik_21 Start: 23070, Stop: 23411, Start Num: 107
Candidate Starts for Martik_21:
(49, 22884), (Start: 86 @23010 has 1 MA's), (Start: 107 @23070 has 250 MA's), (125, 23139), (150, 23253), (170, 23325), (179, 23361), (190, 23400),

Gene: Mattes_21 Start: 23034, Stop: 23375, Start Num: 107
Candidate Starts for Mattes_21:
(49, 22848), (Start: 86 @22974 has 1 MA's), (Start: 107 @23034 has 250 MA's), (125, 23103), (150, 23217), (170, 23289), (179, 23325), (190, 23364),

Gene: McMater_29 Start: 23775, Stop: 24149, Start Num: 105
Candidate Starts for McMater_29:
(Start: 105 @23775 has 433 MA's), (114, 23811), (123, 23838), (160, 24000), (162, 24012), (169, 24033), (190, 24114),

Gene: Mdavu_25 Start: 23932, Stop: 24306, Start Num: 105
Candidate Starts for Mdavu_25:
(Start: 105 @23932 has 433 MA's), (114, 23968), (123, 23995), (152, 24133), (186, 24262), (190, 24271),

Gene: MeaningOfLife_29 Start: 24389, Stop: 24760, Start Num: 105
Candidate Starts for MeaningOfLife_29:
(Start: 105 @24389 has 433 MA's), (138, 24551), (158, 24605), (162, 24623), (190, 24725),

Gene: Medindi_21 Start: 22994, Stop: 23335, Start Num: 107
Candidate Starts for Medindi_21:
(24, 22670), (Start: 86 @22940 has 1 MA's), (Start: 107 @22994 has 250 MA's), (125, 23063), (154, 23189), (160, 23207), (177, 23279), (179, 23285), (185, 23312),

Gene: Megiddo_24 Start: 22782, Stop: 23144, Start Num: 105
Candidate Starts for Megiddo_24:
(Start: 105 @22782 has 433 MA's), (131, 22884), (151, 22950), (188, 23100), (192, 23112),

Gene: Megsy_29 Start: 24388, Stop: 24759, Start Num: 105
Candidate Starts for Megsy_29:
(Start: 105 @24388 has 433 MA's), (138, 24550), (158, 24604), (162, 24622), (190, 24724),

Gene: Melissauren88_21 Start: 23029, Stop: 23370, Start Num: 107
Candidate Starts for Melissauren88_21:
(24, 22705), (Start: 86 @22975 has 1 MA's), (Start: 107 @23029 has 250 MA's), (125, 23098), (154, 23224), (160, 23242), (177, 23314), (179, 23320), (185, 23347),

Gene: Mendokysei_25 Start: 23038, Stop: 23388, Start Num: 107
Candidate Starts for Mendokysei_25:
(1, 21712), (4, 22384), (5, 22438), (18, 22600), (31, 22744), (Start: 107 @23038 has 250 MA's), (Start: 111 @23059 has 2 MA's), (122, 23095), (124, 23101),

Gene: MerCougar_48 Start: 37591, Stop: 37935, Start Num: 105
Candidate Starts for MerCougar_48:

(51, 37417), (Start: 105 @37591 has 433 MA's), (117, 37633), (122, 37648), (151, 37762), (152, 37765), (156, 37777), (169, 37822), (178, 37858),

Gene: Meyran_30 Start: 28212, Stop: 28574, Start Num: 106
Candidate Starts for Meyran_30:
(Start: 106 @28212 has 47 MA's), (180, 28497), (192, 28542),

Gene: MichelleMyBell_24 Start: 21291, Stop: 21653, Start Num: 105
Candidate Starts for MichelleMyBell_24:
(Start: 105 @21291 has 433 MA's), (131, 21393), (151, 21459), (164, 21501), (169, 21534), (173, 21552), (188, 21609), (192, 21621),

Gene: MilleniumForce_22 Start: 23812, Stop: 24153, Start Num: 107
Candidate Starts for MilleniumForce_22:
(24, 23488), (Start: 86 @23758 has 1 MA's), (Start: 107 @23812 has 250 MA's), (125, 23881), (154, 24007), (160, 24025), (177, 24097), (179, 24103), (185, 24130),

Gene: Milly_27 Start: 22685, Stop: 23053, Start Num: 106
Candidate Starts for Milly_27:
(95, 22649), (Start: 106 @22685 has 47 MA's), (134, 22826), (138, 22847), (160, 22907), (162, 22919), (169, 22940),

Gene: Mima20_32 Start: 30308, Stop: 30673, Start Num: 105
Candidate Starts for Mima20_32:
(Start: 105 @30308 has 433 MA's), (166, 30536), (190, 30635), (198, 30668),

Gene: Minerva_42 Start: 36876, Stop: 37217, Start Num: 107
Candidate Starts for Minerva_42:
(49, 36690), (Start: 86 @36816 has 1 MA's), (Start: 107 @36876 has 250 MA's), (125, 36945), (150, 37059), (170, 37131), (179, 37167),

Gene: MinionDave_22 Start: 23681, Stop: 24022, Start Num: 107
Candidate Starts for MinionDave_22:
(24, 23357), (Start: 86 @23627 has 1 MA's), (Start: 107 @23681 has 250 MA's), (125, 23750), (154, 23876), (160, 23894), (177, 23966), (179, 23972), (185, 23999),

Gene: Minnie_22 Start: 23541, Stop: 23882, Start Num: 107
Candidate Starts for Minnie_22:
(24, 23217), (Start: 86 @23487 has 1 MA's), (Start: 107 @23541 has 250 MA's), (125, 23610), (154, 23736), (160, 23754), (177, 23826), (179, 23832), (185, 23859),

Gene: Minos_33 Start: 39247, Stop: 39612, Start Num: 105
Candidate Starts for Minos_33:
(Start: 105 @39247 has 433 MA's), (113, 39277), (120, 39298), (152, 39439), (156, 39451), (158, 39457), (172, 39514), (175, 39520), (192, 39586), (196, 39604),

Gene: Miryou_28 Start: 25010, Stop: 25372, Start Num: 105
Candidate Starts for Miryou_28:
(Start: 105 @25010 has 433 MA's), (131, 25112), (156, 25193), (164, 25220), (169, 25253), (173, 25271), (180, 25295), (183, 25307), (188, 25328), (193, 25349),

Gene: Misha28_22 Start: 22869, Stop: 23210, Start Num: 107
Candidate Starts for Misha28_22:

(Start: 107 @22869 has 250 MA's), (154, 23064), (160, 23082), (177, 23154), (179, 23160), (185, 23187),

Gene: MissDaisy_30 Start: 25378, Stop: 25755, Start Num: 105
Candidate Starts for MissDaisy_30:
(76, 25285), (81, 25300), (84, 25312), (89, 25330), (93, 25342), (Start: 105 @25378 has 433 MA's), (125, 25450), (138, 25543), (160, 25603), (169, 25636), (181, 25687), (186, 25708), (190, 25717),

Gene: MisterCuddles_21 Start: 22972, Stop: 23313, Start Num: 107
Candidate Starts for MisterCuddles_21:
(24, 22648), (Start: 86 @22918 has 1 MA's), (Start: 107 @22972 has 250 MA's), (125, 23041), (154, 23167), (160, 23185), (177, 23257), (179, 23263), (185, 23290),

Gene: Mitti_30 Start: 25536, Stop: 25913, Start Num: 105
Candidate Starts for Mitti_30:
(Start: 105 @25536 has 433 MA's), (138, 25701), (160, 25761), (169, 25794), (175, 25818), (181, 25845), (186, 25866), (190, 25875),

Gene: Modragons_21 Start: 23238, Stop: 23579, Start Num: 107
Candidate Starts for Modragons_21:
(Start: 107 @23238 has 250 MA's), (154, 23433), (160, 23451), (179, 23529),

Gene: MoiGyank_36 Start: 30989, Stop: 31354, Start Num: 105
Candidate Starts for MoiGyank_36:
(Start: 105 @30989 has 433 MA's), (166, 31217), (190, 31316), (198, 31349),

Gene: Moonbeam_22 Start: 23490, Stop: 23831, Start Num: 107
Candidate Starts for Moonbeam_22:
(24, 23166), (Start: 86 @23436 has 1 MA's), (Start: 107 @23490 has 250 MA's), (125, 23559), (154, 23685), (160, 23703), (177, 23775), (179, 23781), (185, 23808),

Gene: Morrissey_28 Start: 22425, Stop: 22781, Start Num: 107
Candidate Starts for Morrissey_28:
(44, 22221), (52, 22254), (Start: 86 @22368 has 1 MA's), (96, 22398), (Start: 107 @22425 has 250 MA's), (120, 22476), (128, 22533), (149, 22608), (162, 22653), (181, 22728),

Gene: MortyNRick_31 Start: 24135, Stop: 24479, Start Num: 106
Candidate Starts for MortyNRick_31:
(Start: 106 @24135 has 47 MA's), (110, 24156), (128, 24246), (143, 24312), (150, 24327), (154, 24339), (159, 24354), (162, 24369), (171, 24408), (178, 24429), (185, 24453),

Gene: Mova_22 Start: 22849, Stop: 23190, Start Num: 107
Candidate Starts for Mova_22:
(24, 22525), (Start: 86 @22795 has 1 MA's), (Start: 107 @22849 has 250 MA's), (125, 22918), (154, 23044), (160, 23062), (177, 23134), (179, 23140), (185, 23167),

Gene: Mozy_22 Start: 22899, Stop: 23240, Start Num: 107
Candidate Starts for Mozy_22:
(Start: 86 @22845 has 1 MA's), (Start: 107 @22899 has 250 MA's), (154, 23094), (160, 23112), (177, 23184), (179, 23190), (185, 23217),

Gene: MrMagoo_36 Start: 28939, Stop: 29283, Start Num: 107
Candidate Starts for MrMagoo_36:

(Start: 107 @28939 has 250 MA's), (133, 29077), (149, 29122), (150, 29125),

Gene: MrWormie_32 Start: 38408, Stop: 38773, Start Num: 105
Candidate Starts for MrWormie_32:
(Start: 105 @38408 has 433 MA's), (113, 38438), (120, 38459), (152, 38600), (156, 38612), (158, 38618), (172, 38675), (175, 38681), (192, 38747), (196, 38765),

Gene: Msay19_36 Start: 39181, Stop: 39546, Start Num: 105
Candidate Starts for Msay19_36:
(Start: 105 @39181 has 433 MA's), (125, 39250), (151, 39370), (156, 39385), (172, 39448),

Gene: Muddy_26 Start: 22970, Stop: 23332, Start Num: 105
Candidate Starts for Muddy_26:
(Start: 105 @22970 has 433 MA's), (118, 23018), (126, 23048), (129, 23063), (131, 23072), (156, 23153), (160, 23165), (175, 23234), (180, 23255), (190, 23294), (192, 23300),

Gene: Mufasa_27 Start: 22723, Stop: 23091, Start Num: 106
Candidate Starts for Mufasa_27:
(95, 22687), (Start: 106 @22723 has 47 MA's), (123, 22783), (125, 22792), (134, 22864), (138, 22885), (160, 22945), (169, 22978),

Gene: Mulch_28 Start: 24404, Stop: 24772, Start Num: 103
Candidate Starts for Mulch_28:
(Start: 103 @24404 has 17 MA's), (151, 24578),

Gene: MulchExplorer_23 Start: 24120, Stop: 24461, Start Num: 107
Candidate Starts for MulchExplorer_23:
(24, 23796), (Start: 86 @24066 has 1 MA's), (Start: 107 @24120 has 250 MA's), (125, 24189), (154, 24315), (160, 24333), (177, 24405), (179, 24411), (185, 24438),

Gene: Murucutumbu_29 Start: 24370, Stop: 24741, Start Num: 105
Candidate Starts for Murucutumbu_29:
(Start: 105 @24370 has 433 MA's), (138, 24532), (158, 24586), (160, 24592), (162, 24604), (169, 24625), (190, 24706),

Gene: Mutaforma13_21 Start: 23045, Stop: 23386, Start Num: 107
Candidate Starts for Mutaforma13_21:
(24, 22721), (Start: 86 @22991 has 1 MA's), (Start: 107 @23045 has 250 MA's), (125, 23114), (154, 23240), (160, 23258), (177, 23330), (179, 23336), (185, 23363),

Gene: Mwanjiwa_21 Start: 22983, Stop: 23324, Start Num: 107
Candidate Starts for Mwanjiwa_21:
(24, 22659), (Start: 86 @22929 has 1 MA's), (Start: 107 @22983 has 250 MA's), (125, 23052), (154, 23178), (160, 23196), (177, 23268), (179, 23274), (185, 23301),

Gene: Mynx_29 Start: 24436, Stop: 24807, Start Num: 105
Candidate Starts for Mynx_29:
(Start: 105 @24436 has 433 MA's), (138, 24598), (158, 24652), (162, 24670), (169, 24691), (190, 24772),

Gene: Nadeem_28 Start: 24404, Stop: 24772, Start Num: 103
Candidate Starts for Nadeem_28:
(Start: 103 @24404 has 17 MA's), (151, 24578),

Gene: NadineRae_46 Start: 33411, Stop: 33755, Start Num: 105
Candidate Starts for NadineRae_46:
(93, 33375), (Start: 105 @33411 has 433 MA's), (151, 33582), (167, 33627),

Gene: Nairb_26 Start: 23229, Stop: 23579, Start Num: 107
Candidate Starts for Nairb_26:
(31, 22935), (Start: 107 @23229 has 250 MA's), (Start: 111 @23250 has 2 MA's), (124, 23292), (175, 23499),

Gene: NancyRae_28 Start: 24410, Stop: 24778, Start Num: 103
Candidate Starts for NancyRae_28:
(Start: 103 @24410 has 17 MA's), (151, 24584),

Gene: NatB6_46 Start: 36386, Stop: 36727, Start Num: 105
Candidate Starts for NatB6_46:
(Start: 105 @36386 has 433 MA's), (137, 36536), (152, 36560), (158, 36578), (159, 36581), (167, 36602), (169, 36617), (178, 36653), (188, 36686),

Gene: Nazo_24 Start: 23148, Stop: 23510, Start Num: 105
Candidate Starts for Nazo_24:
(Start: 105 @23148 has 433 MA's), (131, 23250), (164, 23358), (180, 23433), (182, 23442), (190, 23472), (192, 23478),

Gene: Nebkiss_25 Start: 25559, Stop: 25900, Start Num: 108
Candidate Starts for Nebkiss_25:
(29, 25262), (30, 25265), (33, 25283), (34, 25286), (42, 25349), (54, 25397), (58, 25415), (66, 25430), (69, 25442), (Start: 108 @25559 has 5 MA's), (150, 25742), (160, 25772), (170, 25814), (191, 25892),

Gene: Necropolis_24 Start: 22517, Stop: 22879, Start Num: 105
Candidate Starts for Necropolis_24:
(Start: 105 @22517 has 433 MA's), (131, 22619), (146, 22670), (151, 22685), (156, 22700), (169, 22760), (178, 22796), (192, 22847),

Gene: Neighly_29 Start: 24968, Stop: 25366, Start Num: 105
Candidate Starts for Neighly_29:
(Start: 105 @24968 has 433 MA's), (142, 25130), (151, 25172), (160, 25199), (169, 25247), (173, 25265), (180, 25289), (188, 25322), (193, 25343),

Gene: Neoevie_32 Start: 39511, Stop: 39876, Start Num: 105
Candidate Starts for Neoevie_32:
(Start: 105 @39511 has 433 MA's), (113, 39541), (120, 39562), (152, 39703), (156, 39715), (158, 39721), (172, 39778), (175, 39784), (192, 39850), (196, 39868),

Gene: Nette_27 Start: 23047, Stop: 23397, Start Num: 107
Candidate Starts for Nette_27:
(1, 21721), (4, 22393), (5, 22447), (18, 22609), (31, 22753), (Start: 107 @23047 has 250 MA's), (Start: 111 @23068 has 2 MA's), (122, 23104), (124, 23110),

Gene: Nettle_35 Start: 30843, Stop: 31208, Start Num: 105
Candidate Starts for Nettle_35:
(Start: 105 @30843 has 433 MA's), (166, 31071), (190, 31170), (198, 31203),

Gene: NewHope4_23 Start: 23047, Stop: 23388, Start Num: 107
Candidate Starts for NewHope4_23:
(24, 22723), (Start: 86 @22993 has 1 MA's), (Start: 107 @23047 has 250 MA's), (125, 23116), (154, 23242), (160, 23260), (177, 23332), (179, 23338), (185, 23365),

Gene: Newt_33 Start: 39738, Stop: 40103, Start Num: 105
Candidate Starts for Newt_33:
(Start: 105 @39738 has 433 MA's), (113, 39768), (120, 39789), (152, 39930), (156, 39942), (158, 39948), (172, 40005), (175, 40011), (192, 40077), (196, 40095),

Gene: Nibb_28 Start: 23682, Stop: 24053, Start Num: 105
Candidate Starts for Nibb_28:
(Start: 105 @23682 has 433 MA's), (125, 23754), (138, 23847), (169, 23940),

Gene: Nichirin_21 Start: 23203, Stop: 23544, Start Num: 107
Candidate Starts for Nichirin_21:
(Start: 107 @23203 has 250 MA's), (154, 23398), (160, 23416), (179, 23494),

Gene: Nikao_25 Start: 23944, Stop: 24318, Start Num: 105
Candidate Starts for Nikao_25:
(Start: 105 @23944 has 433 MA's), (114, 23980), (123, 24007), (152, 24145), (186, 24274), (190, 24283),

Gene: Niklas_29 Start: 23778, Stop: 24152, Start Num: 105
Candidate Starts for Niklas_29:
(Start: 105 @23778 has 433 MA's), (114, 23814), (123, 23841), (160, 24003), (162, 24015), (169, 24036), (190, 24117),

Gene: Nimbo_21 Start: 22997, Stop: 23338, Start Num: 107
Candidate Starts for Nimbo_21:
(Start: 107 @22997 has 250 MA's), (125, 23066), (154, 23192), (160, 23210), (177, 23282), (179, 23288), (185, 23315),

Gene: Nimi13_32 Start: 39256, Stop: 39621, Start Num: 105
Candidate Starts for Nimi13_32:
(Start: 105 @39256 has 433 MA's), (113, 39286), (120, 39307), (152, 39448), (156, 39460), (158, 39466), (172, 39523), (175, 39529), (192, 39595), (196, 39613),

Gene: Nitzel_22 Start: 23731, Stop: 24072, Start Num: 107
Candidate Starts for Nitzel_22:
(Start: 86 @23677 has 1 MA's), (Start: 107 @23731 has 250 MA's), (125, 23800), (154, 23926), (160, 23944), (177, 24016), (179, 24022), (185, 24049),

Gene: Nivrat_21 Start: 23042, Stop: 23383, Start Num: 107
Candidate Starts for Nivrat_21:
(49, 22856), (Start: 86 @22982 has 1 MA's), (Start: 107 @23042 has 250 MA's), (125, 23111), (150, 23225), (170, 23297), (179, 23333), (190, 23372),

Gene: Nolwazi_31 Start: 25536, Stop: 25913, Start Num: 105
Candidate Starts for Nolwazi_31:
(Start: 105 @25536 has 433 MA's), (138, 25701), (156, 25749), (160, 25761), (169, 25794), (181, 25845), (186, 25866), (190, 25875),

Gene: NorManre_35 Start: 30192, Stop: 30557, Start Num: 105
Candidate Starts for NorManre_35:
(Start: 105 @30192 has 433 MA's), (138, 30333), (160, 30390), (164, 30405), (166, 30420), (175, 30459), (190, 30519), (198, 30552),

Gene: NormanBulbieJr_21 Start: 23057, Stop: 23398, Start Num: 107
Candidate Starts for NormanBulbieJr_21:
(49, 22871), (Start: 86 @22997 has 1 MA's), (Start: 107 @23057 has 250 MA's), (125, 23126), (150, 23240), (170, 23312), (179, 23348), (190, 23387),

Gene: NosilaM_50 Start: 37288, Stop: 37629, Start Num: 105
Candidate Starts for NosilaM_50:
(Start: 105 @37288 has 433 MA's), (137, 37438), (167, 37504),

Gene: NovaSharks_34 Start: 28473, Stop: 28838, Start Num: 105
Candidate Starts for NovaSharks_34:
(Start: 105 @28473 has 433 MA's), (131, 28578), (156, 28659), (190, 28800),

Gene: November_27 Start: 24726, Stop: 25097, Start Num: 105
Candidate Starts for November_27:
(Start: 105 @24726 has 433 MA's), (138, 24888), (158, 24942), (160, 24948), (169, 24981), (181, 25032),

Gene: NovoPizza_25 Start: 25745, Stop: 26107, Start Num: 105
Candidate Starts for NovoPizza_25:
(Start: 105 @25745 has 433 MA's), (113, 25775), (120, 25796), (134, 25892), (136, 25910), (156, 25946), (192, 26075), (195, 26090),

Gene: NovumRegina_46 Start: 36695, Stop: 37036, Start Num: 105
Candidate Starts for NovumRegina_46:
(Start: 105 @36695 has 433 MA's), (137, 36845), (152, 36869), (158, 36887), (159, 36890), (167, 36911), (169, 36926), (178, 36962), (188, 36995),

Gene: Nutello_25 Start: 23944, Stop: 24318, Start Num: 105
Candidate Starts for Nutello_25:
(Start: 105 @23944 has 433 MA's), (114, 23980), (123, 24007), (152, 24145), (186, 24274), (190, 24283),

Gene: Nyceirae_32 Start: 27931, Stop: 28293, Start Num: 106
Candidate Starts for Nyceirae_32:
(Start: 106 @27931 has 47 MA's), (180, 28216),

Gene: OBUpride_28 Start: 24627, Stop: 24983, Start Num: 105
Candidate Starts for OBUpride_28:
(Start: 105 @24627 has 433 MA's), (120, 24678), (125, 24696), (128, 24735), (136, 24786), (138, 24789), (151, 24807), (156, 24822), (169, 24867), (178, 24903), (181, 24915), (192, 24951),

Gene: ODay_36 Start: 26363, Stop: 26710, Start Num: 106
Candidate Starts for ODay_36:
(Start: 102 @26357 has 1 MA's), (Start: 106 @26363 has 47 MA's), (110, 26384), (113, 26396), (128, 26474), (141, 26537), (143, 26540), (150, 26555), (154, 26567), (159, 26582), (178, 26660), (185, 26684),

Gene: Ochi17_21 Start: 23238, Stop: 23579, Start Num: 107
Candidate Starts for Ochi17_21:
(Start: 107 @23238 has 250 MA's), (154, 23433), (160, 23451), (179, 23529),

Gene: OfUltron_21 Start: 23238, Stop: 23579, Start Num: 107
Candidate Starts for OfUltron_21:
(Start: 107 @23238 has 250 MA's), (154, 23433), (160, 23451), (179, 23529),

Gene: Okabe_23 Start: 21680, Stop: 22042, Start Num: 105
Candidate Starts for Okabe_23:
(Start: 105 @21680 has 433 MA's), (131, 21782), (151, 21848), (156, 21863), (169, 21923), (173, 21941), (192, 22010),

Gene: OkiRoe_28 Start: 25026, Stop: 25388, Start Num: 105
Candidate Starts for OkiRoe_28:
(Start: 105 @25026 has 433 MA's), (131, 25128), (156, 25209), (164, 25236), (169, 25269), (173, 25287), (180, 25311), (183, 25323), (188, 25344), (193, 25365),

Gene: Oksu_22 Start: 23083, Stop: 23424, Start Num: 107
Candidate Starts for Oksu_22:
(Start: 107 @23083 has 250 MA's), (154, 23278), (160, 23296), (179, 23374),

Gene: OldBen_21 Start: 22967, Stop: 23308, Start Num: 107
Candidate Starts for OldBen_21:
(Start: 107 @22967 has 250 MA's), (125, 23036), (154, 23162), (160, 23180), (177, 23252), (179, 23258), (185, 23285),

Gene: OlympiaSaint_21 Start: 23257, Stop: 23598, Start Num: 107
Candidate Starts for OlympiaSaint_21:
(49, 23071), (Start: 86 @23197 has 1 MA's), (Start: 107 @23257 has 250 MA's), (125, 23326), (150, 23440), (170, 23512), (179, 23548), (190, 23587),

Gene: Omega_41 Start: 37050, Stop: 37391, Start Num: 107
Candidate Starts for Omega_41:
(24, 36726), (Start: 86 @36996 has 1 MA's), (Start: 107 @37050 has 250 MA's), (125, 37119), (154, 37245), (160, 37263), (177, 37335), (179, 37341), (185, 37368),

Gene: OmniCritical_30 Start: 25520, Stop: 25897, Start Num: 105
Candidate Starts for OmniCritical_30:
(Start: 105 @25520 has 433 MA's), (125, 25592), (138, 25685), (156, 25733), (160, 25745), (169, 25778), (175, 25802), (181, 25829), (186, 25850), (190, 25859),

Gene: Omnicron_29 Start: 23896, Stop: 24297, Start Num: 104
Candidate Starts for Omnicron_29:
(55, 23746), (60, 23764), (62, 23767), (70, 23791), (72, 23794), (79, 23812), (83, 23830), (Start: 104 @23896 has 1 MA's), (131, 23998), (135, 24028), (145, 24064), (166, 24160), (169, 24178), (173, 24196), (177, 24211), (178, 24214), (188, 24253), (193, 24274),

Gene: Optimus_40 Start: 36394, Stop: 36735, Start Num: 107
Candidate Starts for Optimus_40:
(24, 36070), (Start: 86 @36340 has 1 MA's), (Start: 107 @36394 has 250 MA's), (125, 36463), (154, 36589), (160, 36607), (177, 36679), (179, 36685), (185, 36712),

Gene: Oscar_28 Start: 23641, Stop: 24015, Start Num: 105
Candidate Starts for Oscar_28:
(Start: 105 @23641 has 433 MA's), (125, 23713), (127, 23734), (138, 23806), (169, 23899),

Gene: OtterstedtS21_34 Start: 30265, Stop: 30630, Start Num: 105
Candidate Starts for OtterstedtS21_34:
(Start: 105 @30265 has 433 MA's), (131, 30370), (135, 30400), (160, 30463), (166, 30493), (175, 30532), (190, 30592), (198, 30625),

Gene: Outis_48 Start: 37285, Stop: 37629, Start Num: 105
Candidate Starts for Outis_48:
(51, 37111), (Start: 105 @37285 has 433 MA's), (117, 37327), (122, 37342), (151, 37456), (152, 37459), (156, 37471), (169, 37516), (178, 37552),

Gene: Ovechkin_21 Start: 23028, Stop: 23369, Start Num: 107
Candidate Starts for Ovechkin_21:
(24, 22704), (Start: 86 @22974 has 1 MA's), (Start: 107 @23028 has 250 MA's), (125, 23097), (154, 23223), (160, 23241), (177, 23313), (179, 23319), (185, 23346),

Gene: OwlsT2W_23 Start: 23429, Stop: 23770, Start Num: 107
Candidate Starts for OwlsT2W_23:
(49, 23243), (Start: 86 @23369 has 1 MA's), (Start: 107 @23429 has 250 MA's), (125, 23498), (150, 23612), (160, 23642), (170, 23684), (179, 23720),

Gene: PHappiness_21 Start: 22975, Stop: 23316, Start Num: 107
Candidate Starts for PHappiness_21:
(Start: 107 @22975 has 250 MA's), (125, 23044), (154, 23170), (160, 23188), (177, 23260), (179, 23266), (185, 23293),

Gene: PMC_21 Start: 22984, Stop: 23325, Start Num: 107
Candidate Starts for PMC_21:
(24, 22660), (Start: 86 @22930 has 1 MA's), (Start: 107 @22984 has 250 MA's), (125, 23053), (154, 23179), (160, 23197), (177, 23269), (179, 23275), (185, 23302),

Gene: Pacc40_21 Start: 23165, Stop: 23506, Start Num: 107
Candidate Starts for Pacc40_21:
(Start: 107 @23165 has 250 MA's), (125, 23234), (154, 23360), (160, 23378), (177, 23450), (179, 23456), (185, 23483),

Gene: Padfoot_29 Start: 24453, Stop: 24824, Start Num: 105
Candidate Starts for Padfoot_29:
(Start: 105 @24453 has 433 MA's), (138, 24615), (158, 24669), (190, 24789),

Gene: Padpat_29 Start: 24413, Stop: 24784, Start Num: 105
Candidate Starts for Padpat_29:
(Start: 105 @24413 has 433 MA's), (138, 24575), (158, 24629), (162, 24647), (190, 24749),

Gene: Panchino_23 Start: 21401, Stop: 21763, Start Num: 105
Candidate Starts for Panchino_23:
(Start: 105 @21401 has 433 MA's), (151, 21569), (156, 21584), (173, 21662), (188, 21719), (192, 21731),

Gene: Paola_28 Start: 25025, Stop: 25387, Start Num: 105

Candidate Starts for Paola_28:
(Start: 105 @25025 has 433 MA's), (131, 25127), (156, 25208), (164, 25235), (169, 25268), (173, 25286), (180, 25310), (183, 25322), (188, 25343), (193, 25364),

Gene: Parada_28 Start: 24404, Stop: 24772, Start Num: 103
Candidate Starts for Parada_28:
(Start: 103 @24404 has 17 MA's), (151, 24578),

Gene: ParvusTarda_34 Start: 29733, Stop: 30098, Start Num: 105
Candidate Starts for ParvusTarda_34:
(Start: 105 @29733 has 433 MA's), (131, 29838), (135, 29868), (160, 29931), (164, 29946), (166, 29961), (190, 30060), (198, 30093),

Gene: Patience_39 Start: 33643, Stop: 34008, Start Num: 105
Candidate Starts for Patience_39:
(Start: 105 @33643 has 433 MA's), (125, 33718), (160, 33841), (164, 33856), (166, 33871), (180, 33931), (193, 33985), (198, 34003),

Gene: Patio_50 Start: 37538, Stop: 37882, Start Num: 105
Candidate Starts for Patio_50:
(Start: 105 @37538 has 433 MA's), (117, 37580), (152, 37712), (156, 37724), (169, 37769), (178, 37805),

Gene: PatoPoderoso_21 Start: 23038, Stop: 23379, Start Num: 107
Candidate Starts for PatoPoderoso_21:
(24, 22714), (Start: 86 @22984 has 1 MA's), (Start: 107 @23038 has 250 MA's), (125, 23107), (154, 23233), (160, 23251), (177, 23323), (179, 23329), (185, 23356),

Gene: Patos_35 Start: 30192, Stop: 30557, Start Num: 105
Candidate Starts for Patos_35:
(Start: 105 @30192 has 433 MA's), (138, 30333), (160, 30390), (164, 30405), (166, 30420), (175, 30459), (190, 30519), (198, 30552),

Gene: Patt_30 Start: 25354, Stop: 25731, Start Num: 105
Candidate Starts for Patt_30:
(23, 25009), (25, 25027), (32, 25069), (53, 25192), (57, 25213), (68, 25240), (73, 25252), (82, 25282), (Start: 105 @25354 has 433 MA's), (125, 25426), (138, 25519), (160, 25579), (169, 25612), (181, 25663), (186, 25684), (190, 25693),

Gene: Peanam_29 Start: 23775, Stop: 24149, Start Num: 105
Candidate Starts for Peanam_29:
(Start: 105 @23775 has 433 MA's), (114, 23811), (123, 23838), (160, 24000), (162, 24012), (169, 24033), (190, 24114),

Gene: PeanutPie_24 Start: 22524, Stop: 22886, Start Num: 105
Candidate Starts for PeanutPie_24:
(Start: 105 @22524 has 433 MA's), (131, 22626), (146, 22677), (151, 22692), (156, 22707), (169, 22767), (178, 22803), (192, 22854),

Gene: Peel_29 Start: 24453, Stop: 24824, Start Num: 105
Candidate Starts for Peel_29:
(Start: 105 @24453 has 433 MA's), (138, 24615), (158, 24669), (162, 24687), (190, 24789),

Gene: PegLeg_32 Start: 28084, Stop: 28446, Start Num: 105
Candidate Starts for PegLeg_32:
(61, 27964), (75, 28000), (76, 28003), (80, 28015), (Start: 102 @28081 has 1 MA's), (Start: 105 @28084 has 433 MA's), (131, 28186), (138, 28222), (151, 28252), (164, 28294), (180, 28369), (182, 28378), (190, 28408),

Gene: Pemberton_48 Start: 34143, Stop: 34487, Start Num: 105
Candidate Starts for Pemberton_48:
(14, 33666), (17, 33705), (21, 33756), (36, 33885), (56, 33996), (71, 34038), (77, 34056), (91, 34101), (Start: 105 @34143 has 433 MA's), (151, 34314), (167, 34359),

Gene: Peridot_22 Start: 22810, Stop: 23151, Start Num: 107
Candidate Starts for Peridot_22:
(24, 22486), (Start: 86 @22756 has 1 MA's), (Start: 107 @22810 has 250 MA's), (125, 22879), (150, 22993), (160, 23023), (177, 23095), (179, 23101), (185, 23128),

Gene: Periwinkle_34 Start: 24923, Stop: 25267, Start Num: 106
Candidate Starts for Periwinkle_34:
(Start: 106 @24923 has 47 MA's), (110, 24944), (128, 25034), (143, 25100), (150, 25115), (154, 25127), (159, 25142), (162, 25157), (171, 25196), (178, 25217), (185, 25241),

Gene: Phabuloso_31 Start: 24186, Stop: 24530, Start Num: 106
Candidate Starts for Phabuloso_31:
(Start: 106 @24186 has 47 MA's), (110, 24207), (128, 24297), (143, 24363), (150, 24378), (154, 24390), (159, 24405), (162, 24420), (171, 24459), (178, 24480), (185, 24504),

Gene: Phalconet_21 Start: 23043, Stop: 23384, Start Num: 107
Candidate Starts for Phalconet_21:
(24, 22719), (Start: 86 @22989 has 1 MA's), (Start: 107 @23043 has 250 MA's), (125, 23112), (154, 23238), (160, 23256), (177, 23328), (179, 23334), (185, 23361),

Gene: Phalm_24 Start: 22782, Stop: 23144, Start Num: 105
Candidate Starts for Phalm_24:
(Start: 105 @22782 has 433 MA's), (131, 22884), (151, 22950), (188, 23100), (192, 23112),

Gene: Pharb_28 Start: 24691, Stop: 25050, Start Num: 105
Candidate Starts for Pharb_28:
(85, 24628), (Start: 105 @24691 has 433 MA's), (123, 24754), (150, 24871), (158, 24895), (160, 24901), (162, 24913), (190, 25015),

Gene: Phasih_22 Start: 23540, Stop: 23881, Start Num: 107
Candidate Starts for Phasih_22:
(Start: 86 @23486 has 1 MA's), (Start: 107 @23540 has 250 MA's), (125, 23609), (150, 23723), (160, 23753), (177, 23825), (179, 23831), (185, 23858),

Gene: Phatniss_22 Start: 23502, Stop: 23843, Start Num: 107
Candidate Starts for Phatniss_22:
(24, 23178), (Start: 86 @23448 has 1 MA's), (Start: 107 @23502 has 250 MA's), (125, 23571), (150, 23685), (160, 23715), (177, 23787), (179, 23793), (185, 23820), (191, 23835),

Gene: Phayonce_24 Start: 23074, Stop: 23436, Start Num: 105
Candidate Starts for Phayonce_24:

(Start: 105 @23074 has 433 MA's), (131, 23176), (151, 23242), (180, 23359), (182, 23368), (190, 23398),

Gene: Phegasus_24 Start: 22523, Stop: 22885, Start Num: 105
Candidate Starts for Phegasus_24:
(Start: 105 @22523 has 433 MA's), (131, 22625), (146, 22676), (151, 22691), (156, 22706), (169, 22766), (178, 22802), (192, 22853),

Gene: PhelpsODU_29 Start: 23875, Stop: 24231, Start Num: 105
Candidate Starts for PhelpsODU_29:
(Start: 105 @23875 has 433 MA's), (123, 23935), (136, 24034), (158, 24076), (162, 24094), (190, 24196),

Gene: PhesterPhotato_21 Start: 23020, Stop: 23361, Start Num: 107
Candidate Starts for PhesterPhotato_21:
(24, 22696), (Start: 86 @22966 has 1 MA's), (Start: 107 @23020 has 250 MA's), (125, 23089), (154, 23215), (160, 23233), (177, 23305), (179, 23311), (185, 23338),

Gene: Philus_21 Start: 22999, Stop: 23340, Start Num: 107
Candidate Starts for Philus_21:
(Start: 107 @22999 has 250 MA's), (125, 23068), (154, 23194), (160, 23212), (177, 23284), (179, 23290),

Gene: Phineas_24 Start: 22888, Stop: 23250, Start Num: 105
Candidate Starts for Phineas_24:
(Start: 105 @22888 has 433 MA's), (131, 22990), (151, 23056), (192, 23218),

Gene: Phishy_31 Start: 27869, Stop: 28231, Start Num: 106
Candidate Starts for Phishy_31:
(Start: 106 @27869 has 47 MA's), (180, 28154), (190, 28193),

Gene: Phistory_33 Start: 25244, Stop: 25588, Start Num: 106
Candidate Starts for Phistory_33:
(Start: 106 @25244 has 47 MA's), (110, 25265), (128, 25355), (143, 25421), (150, 25436), (154, 25448), (159, 25463), (162, 25478), (171, 25517), (178, 25538), (185, 25562),

Gene: PhlipPhlop_21 Start: 22953, Stop: 23294, Start Num: 107
Candidate Starts for PhlipPhlop_21:
(24, 22629), (Start: 86 @22899 has 1 MA's), (Start: 107 @22953 has 250 MA's), (125, 23022), (150, 23136), (160, 23166), (177, 23238), (179, 23244), (185, 23271),

Gene: Phomeo_45 Start: 36964, Stop: 37305, Start Num: 105
Candidate Starts for Phomeo_45:
(Start: 105 @36964 has 433 MA's), (137, 37114), (152, 37138), (158, 37156), (159, 37159), (167, 37180), (169, 37195), (178, 37231), (188, 37264),

Gene: Phrank_29 Start: 23825, Stop: 24181, Start Num: 105
Candidate Starts for Phrank_29:
(Start: 105 @23825 has 433 MA's), (123, 23885), (136, 23984), (158, 24026), (162, 24044), (169, 24065), (190, 24146),

Gene: Phrann_23 Start: 21664, Stop: 22026, Start Num: 105
Candidate Starts for Phrann_23:

(Start: 105 @21664 has 433 MA's), (131, 21766), (151, 21832), (156, 21847), (169, 21907), (173, 21925), (192, 21994),

Gene: Piatt_29 Start: 24453, Stop: 24824, Start Num: 105
Candidate Starts for Piatt_29:
(Start: 105 @24453 has 433 MA's), (138, 24615), (158, 24669), (190, 24789),

Gene: Pimento_28 Start: 23879, Stop: 24247, Start Num: 103
Candidate Starts for Pimento_28:
(Start: 103 @23879 has 17 MA's), (151, 24053), (165, 24107),

Gene: Piper2020_22 Start: 22870, Stop: 23211, Start Num: 107
Candidate Starts for Piper2020_22:
(45, 22672), (46, 22675), (48, 22681), (50, 22684), (54, 22708), (90, 22822), (Start: 107 @22870 has 250 MA's), (125, 22939), (150, 23053), (160, 23083), (177, 23155), (179, 23161), (185, 23188),

Gene: Pisa1_28 Start: 24486, Stop: 24857, Start Num: 105
Candidate Starts for Pisa1_28:
(Start: 105 @24486 has 433 MA's), (138, 24648), (158, 24702), (162, 24720), (169, 24741), (190, 24822),

Gene: Pisa4_28 Start: 24486, Stop: 24857, Start Num: 105
Candidate Starts for Pisa4_28:
(Start: 105 @24486 has 433 MA's), (138, 24648), (158, 24702), (162, 24720), (169, 24741), (190, 24822),

Gene: Pixie_29 Start: 24881, Stop: 25237, Start Num: 105
Candidate Starts for Pixie_29:
(Start: 105 @24881 has 433 MA's), (113, 24911), (123, 24941), (150, 25058), (158, 25082), (160, 25088), (162, 25100), (169, 25121), (190, 25202),

Gene: Pleakley_54 Start: 36493, Stop: 36837, Start Num: 105
Candidate Starts for Pleakley_54:
(Start: 105 @36493 has 433 MA's), (151, 36664), (156, 36679),

Gene: Plumbus_22 Start: 22827, Stop: 23168, Start Num: 107
Candidate Starts for Plumbus_22:
(24, 22503), (Start: 86 @22773 has 1 MA's), (Start: 107 @22827 has 250 MA's), (125, 22896), (154, 23022), (160, 23040), (177, 23112), (179, 23118), (185, 23145),

Gene: Poenanya_21 Start: 23135, Stop: 23476, Start Num: 107
Candidate Starts for Poenanya_21:
(24, 22811), (Start: 86 @23081 has 1 MA's), (Start: 107 @23135 has 250 MA's), (125, 23204), (154, 23330), (160, 23348), (177, 23420), (179, 23426), (185, 23453),

Gene: Pokerus_28 Start: 24370, Stop: 24741, Start Num: 105
Candidate Starts for Pokerus_28:
(Start: 105 @24370 has 433 MA's), (138, 24532), (158, 24586), (162, 24604), (190, 24706),

Gene: Poland_36 Start: 39160, Stop: 39525, Start Num: 105
Candidate Starts for Poland_36:
(Start: 105 @39160 has 433 MA's), (125, 39229), (151, 39349), (156, 39364), (172, 39427),

Gene: Polka14_22 Start: 23537, Stop: 23878, Start Num: 107
Candidate Starts for Polka14_22:
(Start: 107 @23537 has 250 MA's), (125, 23606), (154, 23732), (160, 23750), (177, 23822), (179, 23828), (185, 23855),

Gene: Polkaroo_24 Start: 22533, Stop: 22895, Start Num: 105
Candidate Starts for Polkaroo_24:
(Start: 105 @22533 has 433 MA's), (131, 22635), (146, 22686), (151, 22701), (156, 22716), (169, 22776), (178, 22812), (192, 22863),

Gene: Polo2Bam_23 Start: 23047, Stop: 23388, Start Num: 107
Candidate Starts for Polo2Bam_23:
(24, 22723), (Start: 86 @22993 has 1 MA's), (Start: 107 @23047 has 250 MA's), (125, 23116), (154, 23242), (160, 23260), (177, 23332), (179, 23338), (185, 23365),

Gene: PopTart_21 Start: 23046, Stop: 23387, Start Num: 107
Candidate Starts for PopTart_21:
(Start: 86 @22992 has 1 MA's), (Start: 107 @23046 has 250 MA's), (154, 23241), (160, 23259), (177, 23331), (179, 23337), (185, 23364),

Gene: Priscilla_21 Start: 23071, Stop: 23412, Start Num: 107
Candidate Starts for Priscilla_21:
(49, 22885), (Start: 86 @23011 has 1 MA's), (Start: 107 @23071 has 250 MA's), (125, 23140), (150, 23254), (170, 23326), (179, 23362), (190, 23401),

Gene: Prithvi_29 Start: 24385, Stop: 24756, Start Num: 105
Candidate Starts for Prithvi_29:
(Start: 105 @24385 has 433 MA's), (138, 24547), (158, 24601), (160, 24607), (162, 24619), (169, 24640), (190, 24721),

Gene: Psycho_29 Start: 25099, Stop: 25497, Start Num: 105
Candidate Starts for Psycho_29:
(Start: 105 @25099 has 433 MA's), (142, 25261), (151, 25303), (160, 25330), (169, 25378), (173, 25396), (180, 25420), (188, 25453), (193, 25474),

Gene: Pupper_128 Start: 84375, Stop: 84734, Start Num: 105
Candidate Starts for Pupper_128:
(Start: 105 @84375 has 433 MA's), (156, 84579), (166, 84606), (167, 84609),

Gene: Puppers_27 Start: 21276, Stop: 21632, Start Num: 107
Candidate Starts for Puppers_27:
(Start: 107 @21276 has 250 MA's), (120, 21327), (151, 21465), (181, 21579),

Gene: Purky_24 Start: 22771, Stop: 23133, Start Num: 105
Candidate Starts for Purky_24:
(97, 22756), (Start: 105 @22771 has 433 MA's), (180, 23056), (182, 23065), (190, 23095),

Gene: Pywacket_33 Start: 31080, Stop: 31445, Start Num: 105
Candidate Starts for Pywacket_33:
(Start: 105 @31080 has 433 MA's), (166, 31308), (190, 31407), (198, 31440),

Gene: Qhanda_31 Start: 25631, Stop: 26008, Start Num: 105
Candidate Starts for Qhanda_31:

(Start: 105 @25631 has 433 MA's), (125, 25703), (138, 25796), (156, 25844), (160, 25856), (169, 25889), (175, 25913), (181, 25940), (186, 25961), (190, 25970),

Gene: Quby_22 Start: 22574, Stop: 22915, Start Num: 107
Candidate Starts for Quby_22:
(Start: 107 @22574 has 250 MA's), (125, 22643), (139, 22739), (141, 22745), (148, 22757), (162, 22802), (177, 22859), (185, 22889),

Gene: QuickMath_22 Start: 24344, Stop: 24685, Start Num: 107
Candidate Starts for QuickMath_22:
(24, 24020), (Start: 86 @24290 has 1 MA's), (Start: 107 @24344 has 250 MA's), (125, 24413), (154, 24539), (160, 24557), (177, 24629), (179, 24635), (185, 24662),

Gene: Quico_22 Start: 22821, Stop: 23162, Start Num: 107
Candidate Starts for Quico_22:
(Start: 107 @22821 has 250 MA's), (125, 22890), (154, 23016), (160, 23034), (177, 23106), (179, 23112), (185, 23139),

Gene: QuincyRose_28 Start: 24433, Stop: 24804, Start Num: 105
Candidate Starts for QuincyRose_28:
(Start: 105 @24433 has 433 MA's), (138, 24595), (158, 24649), (162, 24667), (190, 24769),

Gene: Radiance_21 Start: 22981, Stop: 23322, Start Num: 107
Candidate Starts for Radiance_21:
(24, 22657), (Start: 86 @22927 has 1 MA's), (Start: 107 @22981 has 250 MA's), (125, 23050), (154, 23176), (160, 23194), (177, 23266), (179, 23272),

Gene: Ramen_29 Start: 24419, Stop: 24790, Start Num: 105
Candidate Starts for Ramen_29:
(Start: 105 @24419 has 433 MA's), (138, 24581), (158, 24635), (162, 24653), (190, 24755),

Gene: Ramsey_22 Start: 23030, Stop: 23371, Start Num: 107
Candidate Starts for Ramsey_22:
(24, 22706), (Start: 86 @22976 has 1 MA's), (Start: 107 @23030 has 250 MA's), (125, 23099), (154, 23225), (160, 23243), (177, 23315), (179, 23321), (185, 23348),

Gene: Ranch_34 Start: 29091, Stop: 29456, Start Num: 105
Candidate Starts for Ranch_34:
(Start: 105 @29091 has 433 MA's), (138, 29232), (160, 29289), (164, 29304), (166, 29319), (180, 29379), (190, 29418), (198, 29451),

Gene: Rando14_29 Start: 23799, Stop: 24200, Start Num: 105
Candidate Starts for Rando14_29:
(98, 23784), (Start: 105 @23799 has 433 MA's), (131, 23901), (135, 23931), (145, 23967), (160, 24033), (166, 24063), (169, 24081), (177, 24114), (178, 24117), (188, 24156), (193, 24177),

Gene: Rapunzel97_29 Start: 24420, Stop: 24791, Start Num: 105
Candidate Starts for Rapunzel97_29:
(Start: 105 @24420 has 433 MA's), (138, 24582), (158, 24636), (162, 24654), (190, 24756),

Gene: RavenCo17_27 Start: 24931, Stop: 25293, Start Num: 106
Candidate Starts for RavenCo17_27:
(Start: 106 @24931 has 47 MA's), (147, 25087), (166, 25156), (175, 25195), (180, 25216),

Gene: Raymond7_23 Start: 21677, Stop: 22039, Start Num: 105
Candidate Starts for Raymond7_23:
(Start: 105 @21677 has 433 MA's), (131, 21779), (151, 21845), (164, 21887), (169, 21920), (173, 21938), (188, 21995), (192, 22007),

Gene: RazorC_33 Start: 28865, Stop: 29230, Start Num: 105
Candidate Starts for RazorC_33:
(Start: 105 @28865 has 433 MA's), (131, 28970), (156, 29051), (190, 29192),

Gene: Rebel_23 Start: 21086, Stop: 21448, Start Num: 105
Candidate Starts for Rebel_23:
(Start: 105 @21086 has 433 MA's), (131, 21188), (151, 21254), (156, 21269), (169, 21329), (173, 21347), (188, 21404), (192, 21416),

Gene: RedBird_21 Start: 22958, Stop: 23299, Start Num: 107
Candidate Starts for RedBird_21:
(24, 22634), (Start: 86 @22904 has 1 MA's), (Start: 107 @22958 has 250 MA's), (125, 23027), (154, 23153), (160, 23171), (177, 23243), (179, 23249), (185, 23276),

Gene: RedRaider_54 Start: 39557, Stop: 39904, Start Num: 105
Candidate Starts for RedRaider_54:
(Start: 105 @39557 has 433 MA's), (188, 39860), (194, 39884),

Gene: Reindeer_32 Start: 28589, Stop: 28951, Start Num: 105
Candidate Starts for Reindeer_32:
(Start: 102 @28586 has 1 MA's), (Start: 105 @28589 has 433 MA's), (129, 28682), (131, 28691), (151, 28757), (164, 28799), (175, 28853), (180, 28874), (182, 28883), (183, 28886), (192, 28919),

Gene: Rem711_31 Start: 26394, Stop: 26738, Start Num: 108
Candidate Starts for Rem711_31:
(87, 26334), (Start: 108 @26394 has 5 MA's), (113, 26424), (125, 26463), (143, 26568), (191, 26730),

Gene: Reptar3000_30 Start: 25347, Stop: 25724, Start Num: 105
Candidate Starts for Reptar3000_30:
(82, 25275), (Start: 105 @25347 has 433 MA's), (138, 25512), (160, 25572), (169, 25605), (181, 25656), (186, 25677), (190, 25686),

Gene: Rey_36 Start: 29170, Stop: 29514, Start Num: 107
Candidate Starts for Rey_36:
(Start: 107 @29170 has 250 MA's), (120, 29221), (150, 29356),

Gene: Rialto_23 Start: 23510, Stop: 23851, Start Num: 107
Candidate Starts for Rialto_23:
(24, 23186), (Start: 86 @23456 has 1 MA's), (Start: 107 @23510 has 250 MA's), (125, 23579), (150, 23693), (160, 23723), (177, 23795), (179, 23801), (185, 23828),

Gene: Richo_29 Start: 23775, Stop: 24149, Start Num: 105
Candidate Starts for Richo_29:
(Start: 105 @23775 has 433 MA's), (114, 23811), (123, 23838), (160, 24000), (162, 24012), (169, 24033), (190, 24114),

Gene: Riduram_32 Start: 28443, Stop: 28808, Start Num: 105

Candidate Starts for Riduram_32:
(Start: 105 @28443 has 433 MA's), (131, 28548), (156, 28629), (190, 28770),

Gene: Rita_21 Start: 23011, Stop: 23352, Start Num: 107
Candidate Starts for Rita_21:
(24, 22687), (Start: 86 @22957 has 1 MA's), (Start: 107 @23011 has 250 MA's), (125, 23080), (154, 23206), (160, 23224), (177, 23296), (179, 23302), (185, 23329),

Gene: RitaG_21 Start: 23203, Stop: 23544, Start Num: 107
Candidate Starts for RitaG_21:
(49, 23017), (Start: 86 @23143 has 1 MA's), (Start: 107 @23203 has 250 MA's), (120, 23254), (125, 23272), (150, 23386), (160, 23416), (170, 23458), (177, 23488), (179, 23494),

Gene: Rockne_21 Start: 22984, Stop: 23325, Start Num: 107
Candidate Starts for Rockne_21:
(24, 22660), (Start: 86 @22930 has 1 MA's), (Start: 107 @22984 has 250 MA's), (125, 23053), (154, 23179), (160, 23197), (177, 23269), (179, 23275), (185, 23302),

Gene: RockyHorror_22 Start: 22855, Stop: 23196, Start Num: 107
Candidate Starts for RockyHorror_22:
(Start: 107 @22855 has 250 MA's), (125, 22924), (154, 23050), (160, 23068), (177, 23140), (179, 23146), (185, 23173),

Gene: RonRayGun_26 Start: 23229, Stop: 23579, Start Num: 107
Candidate Starts for RonRayGun_26:
(31, 22935), (Start: 107 @23229 has 250 MA's), (Start: 111 @23250 has 2 MA's), (124, 23292), (175, 23499),

Gene: Rosmarinus_29 Start: 24441, Stop: 24812, Start Num: 105
Candidate Starts for Rosmarinus_29:
(Start: 105 @24441 has 433 MA's), (138, 24603), (158, 24657), (162, 24675), (190, 24777),

Gene: Rota_33 Start: 30474, Stop: 30839, Start Num: 105
Candidate Starts for Rota_33:
(Start: 105 @30474 has 433 MA's), (138, 30615), (160, 30672), (164, 30687), (166, 30702), (190, 30801), (198, 30834),

Gene: Royals2015_21 Start: 23060, Stop: 23401, Start Num: 107
Candidate Starts for Royals2015_21:
(49, 22874), (Start: 86 @23000 has 1 MA's), (Start: 107 @23060 has 250 MA's), (125, 23129), (150, 23243), (170, 23315), (179, 23351),

Gene: Rubeelu_24 Start: 21222, Stop: 21584, Start Num: 105
Candidate Starts for Rubeelu_24:
(Start: 105 @21222 has 433 MA's), (151, 21390), (192, 21552),

Gene: Ruby_21 Start: 22972, Stop: 23313, Start Num: 107
Candidate Starts for Ruby_21:
(24, 22648), (Start: 86 @22918 has 1 MA's), (Start: 107 @22972 has 250 MA's), (125, 23041), (154, 23167), (160, 23185), (177, 23257), (179, 23263), (185, 23290),

Gene: Rukungu_34 Start: 30783, Stop: 31148, Start Num: 105
Candidate Starts for Rukungu_34:

(Start: 105 @30783 has 433 MA's), (131, 30888), (135, 30918), (160, 30981), (166, 31011), (180, 31071), (190, 31110), (198, 31143),

Gene: Rumi_34 Start: 28476, Stop: 28841, Start Num: 105
Candidate Starts for Rumi_34:
(Start: 105 @28476 has 433 MA's), (131, 28581), (156, 28662), (190, 28803),

Gene: Ruthiejr_31 Start: 25478, Stop: 25840, Start Num: 105
Candidate Starts for Ruthiejr_31:
(Start: 105 @25478 has 433 MA's), (131, 25580), (151, 25646), (192, 25808),

Gene: SCentae_127 Start: 84528, Stop: 84887, Start Num: 105
Candidate Starts for SCentae_127:
(Start: 105 @84528 has 433 MA's), (156, 84732), (166, 84759), (167, 84762),

Gene: SG4_21 Start: 23149, Stop: 23490, Start Num: 107
Candidate Starts for SG4_21:
(24, 22825), (Start: 86 @23095 has 1 MA's), (Start: 107 @23149 has 250 MA's), (125, 23218), (154, 23344), (160, 23362), (177, 23434), (179, 23440), (185, 23467),

Gene: Saal_21 Start: 22977, Stop: 23318, Start Num: 107
Candidate Starts for Saal_21:
(Start: 107 @22977 has 250 MA's), (125, 23046), (154, 23172), (160, 23190), (177, 23262), (179, 23268),

Gene: Sabbb_22 Start: 23277, Stop: 23618, Start Num: 107
Candidate Starts for Sabbb_22:
(49, 23091), (Start: 86 @23217 has 1 MA's), (Start: 107 @23277 has 250 MA's), (125, 23346), (150, 23460), (160, 23490), (170, 23532), (179, 23568),

Gene: Sadboi_35 Start: 30950, Stop: 31315, Start Num: 105
Candidate Starts for Sadboi_35:
(Start: 105 @30950 has 433 MA's), (131, 31055), (135, 31085), (160, 31148), (166, 31178), (175, 31217), (190, 31277), (198, 31310),

Gene: Salvus_27 Start: 23063, Stop: 23425, Start Num: 105
Candidate Starts for Salvus_27:
(Start: 105 @23063 has 433 MA's), (118, 23111), (126, 23141), (131, 23165), (156, 23246), (160, 23258), (175, 23327), (180, 23348), (190, 23387), (192, 23393),

Gene: SamScheppers_29 Start: 25810, Stop: 26172, Start Num: 105
Candidate Starts for SamScheppers_29:
(Start: 105 @25810 has 433 MA's), (131, 25912), (151, 25978), (164, 26020), (169, 26053), (173, 26071), (188, 26128), (192, 26140),

Gene: Sampudon_34 Start: 31119, Stop: 31484, Start Num: 105
Candidate Starts for Sampudon_34:
(Start: 105 @31119 has 433 MA's), (166, 31347), (190, 31446), (198, 31479),

Gene: SamuelLPlaqson_29 Start: 24379, Stop: 24750, Start Num: 105
Candidate Starts for SamuelLPlaqson_29:
(Start: 105 @24379 has 433 MA's), (138, 24541), (158, 24595), (169, 24634),

Gene: Sandalphon_22 Start: 23555, Stop: 23896, Start Num: 107
Candidate Starts for Sandalphon_22:
(24, 23231), (Start: 86 @23501 has 1 MA's), (Start: 107 @23555 has 250 MA's), (125, 23624), (154, 23750), (160, 23768), (177, 23840), (179, 23846), (185, 23873),

Gene: Sassafras_21 Start: 23129, Stop: 23470, Start Num: 107
Candidate Starts for Sassafras_21:
(Start: 107 @23129 has 250 MA's), (125, 23198), (154, 23324), (160, 23342), (177, 23414), (179, 23420), (185, 23447), (191, 23462),

Gene: SassyB_21 Start: 23046, Stop: 23387, Start Num: 107
Candidate Starts for SassyB_21:
(Start: 86 @22992 has 1 MA's), (Start: 107 @23046 has 250 MA's), (154, 23241), (160, 23259), (177, 23331), (179, 23337), (185, 23364),

Gene: Sbash_23 Start: 22693, Stop: 23055, Start Num: 105
Candidate Starts for Sbash_23:
(Start: 105 @22693 has 433 MA's), (131, 22795), (151, 22861), (180, 22978), (182, 22987), (190, 23017),

Gene: Scarlett_28 Start: 23642, Stop: 24016, Start Num: 105
Candidate Starts for Scarlett_28:
(Start: 105 @23642 has 433 MA's), (112, 23672), (125, 23714), (127, 23735), (138, 23807), (169, 23900),

Gene: Scitech_23 Start: 21409, Stop: 21771, Start Num: 105
Candidate Starts for Scitech_23:
(Start: 105 @21409 has 433 MA's), (131, 21511), (151, 21577), (188, 21727), (192, 21739),

Gene: Scottish_22 Start: 24298, Stop: 24639, Start Num: 107
Candidate Starts for Scottish_22:
(Start: 107 @24298 has 250 MA's), (125, 24367), (154, 24493), (160, 24511), (177, 24583), (179, 24589), (185, 24616),

Gene: Scuba_54 Start: 36567, Stop: 36911, Start Num: 105
Candidate Starts for Scuba_54:
(Start: 105 @36567 has 433 MA's), (151, 36738), (156, 36753),

Gene: SeaLumen_22 Start: 23047, Stop: 23388, Start Num: 107
Candidate Starts for SeaLumen_22:
(24, 22723), (Start: 86 @22993 has 1 MA's), (Start: 107 @23047 has 250 MA's), (125, 23116), (154, 23242), (160, 23260), (177, 23332), (179, 23338), (185, 23365),

Gene: Seabastian_21 Start: 23238, Stop: 23579, Start Num: 107
Candidate Starts for Seabastian_21:
(Start: 107 @23238 has 250 MA's), (154, 23433), (160, 23451), (179, 23529),

Gene: Seagreen_22 Start: 22842, Stop: 23183, Start Num: 107
Candidate Starts for Seagreen_22:
(24, 22518), (Start: 86 @22788 has 1 MA's), (Start: 107 @22842 has 250 MA's), (125, 22911), (154, 23037), (160, 23055), (177, 23127), (179, 23133), (185, 23160),

Gene: SgtBeansprout_25 Start: 23944, Stop: 24318, Start Num: 105

Candidate Starts for SgtBeansprout_25:
(Start: 105 @23944 has 433 MA's), (114, 23980), (123, 24007), (152, 24145), (186, 24274), (190, 24283),

Gene: Shadow1_28 Start: 23698, Stop: 24054, Start Num: 105
Candidate Starts for Shadow1_28:
(Start: 105 @23698 has 433 MA's), (123, 23758), (136, 23857), (158, 23899), (190, 24019),

Gene: Shaobing_29 Start: 23775, Stop: 24149, Start Num: 105
Candidate Starts for Shaobing_29:
(Start: 105 @23775 has 433 MA's), (114, 23811), (123, 23838), (160, 24000), (162, 24012), (169, 24033), (190, 24114),

Gene: ShawBrad_32 Start: 24466, Stop: 24810, Start Num: 106
Candidate Starts for ShawBrad_32:
(Start: 106 @24466 has 47 MA's), (110, 24487), (128, 24577), (143, 24643), (150, 24658), (154, 24670), (159, 24685), (162, 24700), (171, 24739), (178, 24760), (185, 24784),

Gene: ShedlockHolmes_29 Start: 25042, Stop: 25398, Start Num: 105
Candidate Starts for ShedlockHolmes_29:
(Start: 105 @25042 has 433 MA's), (113, 25072), (123, 25102), (158, 25243), (160, 25249), (169, 25282), (190, 25363),

Gene: Shelley_32 Start: 38732, Stop: 39097, Start Num: 105
Candidate Starts for Shelley_32:
(Start: 105 @38732 has 433 MA's), (113, 38762), (120, 38783), (152, 38924), (156, 38936), (158, 38942), (172, 38999), (175, 39005), (192, 39071), (196, 39089),

Gene: ShiLan_21 Start: 23069, Stop: 23410, Start Num: 107
Candidate Starts for ShiLan_21:
(49, 22883), (Start: 86 @23009 has 1 MA's), (Start: 107 @23069 has 250 MA's), (125, 23138), (150, 23252), (170, 23324), (179, 23360), (190, 23399),

Gene: ShiaSurprise_29 Start: 24453, Stop: 24824, Start Num: 105
Candidate Starts for ShiaSurprise_29:
(Start: 105 @24453 has 433 MA's), (138, 24615), (158, 24669), (190, 24789),

Gene: ShowerHandel_21 Start: 23070, Stop: 23411, Start Num: 107
Candidate Starts for ShowerHandel_21:
(49, 22884), (Start: 86 @23010 has 1 MA's), (Start: 107 @23070 has 250 MA's), (125, 23139), (150, 23253), (170, 23325), (179, 23361), (190, 23400),

Gene: Shweta_23 Start: 21419, Stop: 21781, Start Num: 105
Candidate Starts for Shweta_23:
(Start: 105 @21419 has 433 MA's), (131, 21521), (151, 21587), (188, 21737), (192, 21749),

Gene: SiSi_21 Start: 22990, Stop: 23331, Start Num: 107
Candidate Starts for SiSi_21:
(Start: 86 @22936 has 1 MA's), (Start: 107 @22990 has 250 MA's), (125, 23059), (150, 23173), (160, 23203), (177, 23275), (179, 23281), (185, 23308), (191, 23323),

Gene: SilverChicken_27 Start: 22681, Stop: 23022, Start Num: 108
Candidate Starts for SilverChicken_27:

(Start: 108 @22681 has 5 MA's), (125, 22750), (150, 22864), (160, 22894), (170, 22936), (179, 22972),

Gene: SimranZ1_22 Start: 22801, Stop: 23142, Start Num: 107
Candidate Starts for SimranZ1_22:
(Start: 86 @22747 has 1 MA's), (Start: 107 @22801 has 250 MA's), (154, 22996), (160, 23014), (177, 23086), (179, 23092), (185, 23119), (191, 23134),

Gene: SirPhilip_28 Start: 23328, Stop: 23702, Start Num: 105
Candidate Starts for SirPhilip_28:
(Start: 105 @23328 has 433 MA's), (123, 23391), (125, 23400), (134, 23472), (167, 23571), (169, 23586),

Gene: Skinny_33 Start: 28514, Stop: 28876, Start Num: 105
Candidate Starts for Skinny_33:
(Start: 105 @28514 has 433 MA's), (129, 28607), (131, 28616), (156, 28697), (173, 28775), (192, 28844), (193, 28853),

Gene: SkinnyPete_23 Start: 21425, Stop: 21787, Start Num: 105
Candidate Starts for SkinnyPete_23:
(Start: 105 @21425 has 433 MA's), (151, 21593), (156, 21608), (173, 21686), (188, 21743), (192, 21755),

Gene: Skog_190 Start: 114258, Stop: 114617, Start Num: 105
Candidate Starts for Skog_190:
(Start: 105 @114258 has 433 MA's), (156, 114462), (166, 114489), (167, 114492), (178, 114543),

Gene: Skysand_49 Start: 37758, Stop: 38102, Start Num: 105
Candidate Starts for Skysand_49:
(Start: 105 @37758 has 433 MA's), (117, 37800), (152, 37932), (156, 37944), (169, 37989), (178, 38025),

Gene: Slarp_30 Start: 25622, Stop: 25999, Start Num: 105
Candidate Starts for Slarp_30:
(Start: 105 @25622 has 433 MA's), (125, 25694), (138, 25787), (156, 25835), (160, 25847), (169, 25880), (175, 25904), (181, 25931), (186, 25952), (190, 25961),

Gene: Slim_22 Start: 22790, Stop: 23131, Start Num: 107
Candidate Starts for Slim_22:
(24, 22466), (Start: 86 @22736 has 1 MA's), (Start: 107 @22790 has 250 MA's), (125, 22859), (150, 22973), (160, 23003), (177, 23075), (179, 23081), (185, 23108),

Gene: SlimJimmy_31 Start: 28068, Stop: 28430, Start Num: 105
Candidate Starts for SlimJimmy_31:
(61, 27948), (75, 27984), (76, 27987), (80, 27999), (Start: 102 @28065 has 1 MA's), (Start: 105 @28068 has 433 MA's), (131, 28170), (138, 28206), (151, 28236), (164, 28278), (180, 28353), (182, 28362), (190, 28392),

Gene: Slimphazie_29 Start: 24420, Stop: 24791, Start Num: 105
Candidate Starts for Slimphazie_29:
(Start: 105 @24420 has 433 MA's), (138, 24582), (158, 24636), (162, 24654), (190, 24756),

Gene: SoSeph_28 Start: 25173, Stop: 25535, Start Num: 105
Candidate Starts for SoSeph_28:

(Start: 105 @25173 has 433 MA's), (131, 25275), (156, 25356), (164, 25383), (169, 25416), (173, 25434), (180, 25458), (183, 25470), (188, 25491), (193, 25512),

Gene: Sonah_24 Start: 22507, Stop: 22869, Start Num: 105
Candidate Starts for Sonah_24:
(Start: 105 @22507 has 433 MA's), (131, 22609), (146, 22660), (151, 22675), (156, 22690), (169, 22750), (178, 22786), (192, 22837),

Gene: Sparkdehlily_21 Start: 23023, Stop: 23364, Start Num: 107
Candidate Starts for Sparkdehlily_21:
(Start: 107 @23023 has 250 MA's), (125, 23092), (154, 23218), (160, 23236), (177, 23308), (179, 23314),

Gene: Sparky_23 Start: 23532, Stop: 23894, Start Num: 105
Candidate Starts for Sparky_23:
(Start: 105 @23532 has 433 MA's), (180, 23817), (182, 23826), (190, 23856),

Gene: Spartacus_22 Start: 23082, Stop: 23423, Start Num: 107
Candidate Starts for Spartacus_22:
(24, 22758), (Start: 86 @23028 has 1 MA's), (Start: 107 @23082 has 250 MA's), (125, 23151), (154, 23277), (160, 23295), (177, 23367), (179, 23373), (185, 23400), (191, 23415),

Gene: Spikelee_22 Start: 22824, Stop: 23165, Start Num: 107
Candidate Starts for Spikelee_22:
(24, 22500), (Start: 86 @22770 has 1 MA's), (Start: 107 @22824 has 250 MA's), (125, 22893), (154, 23019), (160, 23037), (177, 23109), (179, 23115),

Gene: Spock_29 Start: 24453, Stop: 24824, Start Num: 105
Candidate Starts for Spock_29:
(Start: 105 @24453 has 433 MA's), (138, 24615), (158, 24669), (162, 24687), (190, 24789),

Gene: Spoonbill_21 Start: 23068, Stop: 23409, Start Num: 107
Candidate Starts for Spoonbill_21:
(49, 22882), (Start: 86 @23008 has 1 MA's), (Start: 107 @23068 has 250 MA's), (125, 23137), (150, 23251), (170, 23323), (179, 23359), (190, 23398),

Gene: Sprinklemunch_23 Start: 22902, Stop: 23294, Start Num: 106
Candidate Starts for Sprinklemunch_23:
(Start: 106 @22902 has 47 MA's), (152, 23103), (160, 23127),

Gene: StAnnes_21 Start: 23042, Stop: 23383, Start Num: 107
Candidate Starts for StAnnes_21:
(Start: 86 @22988 has 1 MA's), (Start: 107 @23042 has 250 MA's), (125, 23111), (154, 23237), (160, 23255), (177, 23327), (179, 23333), (185, 23360),

Gene: Stap_22 Start: 23031, Stop: 23372, Start Num: 107
Candidate Starts for Stap_22:
(24, 22707), (Start: 86 @22977 has 1 MA's), (Start: 107 @23031 has 250 MA's), (125, 23100), (154, 23226), (160, 23244), (177, 23316), (179, 23322),

Gene: StarStruck_48 Start: 37285, Stop: 37629, Start Num: 105
Candidate Starts for StarStruck_48:

(51, 37111), (Start: 105 @37285 has 433 MA's), (117, 37327), (122, 37342), (151, 37456), (152, 37459), (156, 37471), (169, 37516), (178, 37552),

Gene: Starcevich_22 Start: 22792, Stop: 23133, Start Num: 107
Candidate Starts for Starcevich_22:
(24, 22468), (Start: 86 @22738 has 1 MA's), (Start: 107 @22792 has 250 MA's), (125, 22861), (154, 22987), (160, 23005), (177, 23077), (179, 23083), (185, 23110),

Gene: StevieRay_24 Start: 22508, Stop: 22870, Start Num: 105
Candidate Starts for StevieRay_24:
(Start: 105 @22508 has 433 MA's), (131, 22610), (146, 22661), (151, 22676), (156, 22691), (169, 22751), (178, 22787), (192, 22838),

Gene: Sticker17_32 Start: 39247, Stop: 39612, Start Num: 105
Candidate Starts for Sticker17_32:
(Start: 105 @39247 has 433 MA's), (113, 39277), (120, 39298), (152, 39439), (156, 39451), (158, 39457), (172, 39514), (175, 39520), (192, 39586), (196, 39604),

Gene: Stinson_30 Start: 24660, Stop: 25031, Start Num: 105
Candidate Starts for Stinson_30:
(Start: 105 @24660 has 433 MA's), (123, 24720), (138, 24822), (158, 24876), (160, 24882), (169, 24915), (190, 24996),

Gene: Stormer_33 Start: 28479, Stop: 28844, Start Num: 105
Candidate Starts for Stormer_33:
(Start: 105 @28479 has 433 MA's), (131, 28584), (156, 28665), (190, 28806),

Gene: StressBall_24 Start: 22782, Stop: 23144, Start Num: 105
Candidate Starts for StressBall_24:
(Start: 105 @22782 has 433 MA's), (131, 22884), (151, 22950), (188, 23100), (192, 23112),

Gene: Strobilo_27 Start: 22685, Stop: 23053, Start Num: 106
Candidate Starts for Strobilo_27:
(95, 22649), (Start: 106 @22685 has 47 MA's), (134, 22826), (138, 22847), (160, 22907), (162, 22919), (169, 22940),

Gene: Strokeseat_21 Start: 23096, Stop: 23437, Start Num: 107
Candidate Starts for Strokeseat_21:
(24, 22772), (Start: 86 @23042 has 1 MA's), (Start: 107 @23096 has 250 MA's), (125, 23165), (154, 23291), (160, 23309), (177, 23381), (179, 23387), (185, 23414),

Gene: Suerte_27 Start: 23655, Stop: 23999, Start Num: 106
Candidate Starts for Suerte_27:
(22, 23298), (61, 23535), (80, 23586), (Start: 106 @23655 has 47 MA's), (110, 23676), (113, 23688), (128, 23766), (143, 23832), (150, 23847), (162, 23889),

Gene: Sukkupi_47 Start: 35717, Stop: 36061, Start Num: 105
Candidate Starts for Sukkupi_47:
(14, 35240), (17, 35279), (21, 35330), (36, 35459), (56, 35570), (71, 35612), (77, 35630), (91, 35675), (Start: 105 @35717 has 433 MA's), (151, 35888), (167, 35933),

Gene: Sulley_29 Start: 24386, Stop: 24757, Start Num: 105
Candidate Starts for Sulley_29:

(Start: 105 @24386 has 433 MA's), (138, 24548), (158, 24602), (162, 24620), (190, 24722),

Gene: Sunflower1121_28 Start: 23710, Stop: 24066, Start Num: 105
Candidate Starts for Sunflower1121_28:
(Start: 105 @23710 has 433 MA's), (123, 23770), (136, 23869), (158, 23911), (190, 24031),

Gene: SuperGrey_22 Start: 23675, Stop: 24016, Start Num: 107
Candidate Starts for SuperGrey_22:
(24, 23351), (Start: 86 @23621 has 1 MA's), (Start: 107 @23675 has 250 MA's), (125, 23744), (154, 23870), (160, 23888), (177, 23960), (179, 23966), (185, 23993),

Gene: SuperSonics_38 Start: 32819, Stop: 33184, Start Num: 105
Candidate Starts for SuperSonics_38:
(Start: 105 @32819 has 433 MA's), (125, 32894), (160, 33017), (164, 33032), (166, 33047), (180, 33107), (193, 33161), (198, 33179),

Gene: SuperSulley_48 Start: 37453, Stop: 37797, Start Num: 105
Candidate Starts for SuperSulley_48:
(Start: 105 @37453 has 433 MA's), (117, 37495), (152, 37627), (156, 37639), (169, 37684), (178, 37720), (194, 37777),

Gene: SussRoloMann_28 Start: 24404, Stop: 24772, Start Num: 103
Candidate Starts for SussRoloMann_28:
(Start: 103 @24404 has 17 MA's), (151, 24578),

Gene: SwagPigglett_21 Start: 23000, Stop: 23341, Start Num: 107
Candidate Starts for SwagPigglett_21:
(Start: 107 @23000 has 250 MA's), (125, 23069), (154, 23195), (160, 23213), (177, 23285), (179, 23291),

Gene: Syra333_29 Start: 23723, Stop: 24079, Start Num: 105
Candidate Starts for Syra333_29:
(94, 23690), (Start: 105 @23723 has 433 MA's), (122, 23780), (123, 23783), (135, 23879), (136, 23882), (158, 23924), (162, 23942), (190, 24044),

Gene: TBond007_29 Start: 24880, Stop: 25236, Start Num: 105
Candidate Starts for TBond007_29:
(Start: 105 @24880 has 433 MA's), (113, 24910), (123, 24940), (150, 25057), (158, 25081), (160, 25087), (162, 25099), (169, 25120), (190, 25201),

Gene: TClif_29 Start: 23824, Stop: 24186, Start Num: 105
Candidate Starts for TClif_29:
(Start: 105 @23824 has 433 MA's), (123, 23890), (158, 24031), (160, 24037), (162, 24049), (169, 24070),

Gene: TDanisky_21 Start: 23023, Stop: 23364, Start Num: 107
Candidate Starts for TDanisky_21:
(Start: 107 @23023 has 250 MA's), (125, 23092), (154, 23218), (160, 23236), (177, 23308), (179, 23314),

Gene: TM4_27 Start: 22832, Stop: 23212, Start Num: 106
Candidate Starts for TM4_27:
(Start: 106 @22832 has 47 MA's), (138, 23006), (160, 23066), (162, 23078), (169, 23099),

Gene: Tachez_29 Start: 24382, Stop: 24753, Start Num: 105
Candidate Starts for Tachez_29:
(Start: 105 @24382 has 433 MA's), (138, 24544), (158, 24598), (162, 24616), (190, 24718),

Gene: TaiwanKao_30 Start: 24391, Stop: 24762, Start Num: 105
Candidate Starts for TaiwanKao_30:
(Start: 105 @24391 has 433 MA's), (138, 24553), (158, 24607), (160, 24613), (162, 24625), (169, 24646), (190, 24727),

Gene: Taj_21 Start: 23031, Stop: 23372, Start Num: 107
Candidate Starts for Taj_21:
(24, 22707), (Start: 86 @22977 has 1 MA's), (Start: 107 @23031 has 250 MA's), (125, 23100), (154, 23226), (160, 23244), (177, 23316), (179, 23322), (185, 23349),

Gene: Taquito_29 Start: 25857, Stop: 26219, Start Num: 105
Candidate Starts for Taquito_29:
(Start: 105 @25857 has 433 MA's), (131, 25959), (151, 26025), (164, 26067), (169, 26100), (173, 26118), (188, 26175), (192, 26187),

Gene: Tchotchke_22 Start: 22932, Stop: 23273, Start Num: 107
Candidate Starts for Tchotchke_22:
(24, 22608), (Start: 86 @22878 has 1 MA's), (Start: 107 @22932 has 250 MA's), (125, 23001), (154, 23127), (160, 23145), (179, 23223),

Gene: Teal_32 Start: 39715, Stop: 40080, Start Num: 105
Candidate Starts for Teal_32:
(Start: 105 @39715 has 433 MA's), (113, 39745), (120, 39766), (152, 39907), (156, 39919), (158, 39925), (172, 39982), (175, 39988), (192, 40054), (196, 40072),

Gene: Techage_24 Start: 22508, Stop: 22870, Start Num: 105
Candidate Starts for Techage_24:
(Start: 105 @22508 has 433 MA's), (131, 22610), (146, 22661), (151, 22676), (156, 22691), (169, 22751), (173, 22769), (192, 22838),

Gene: Teejan_25 Start: 23944, Stop: 24318, Start Num: 105
Candidate Starts for Teejan_25:
(Start: 105 @23944 has 433 MA's), (114, 23980), (123, 24007), (152, 24145), (186, 24274), (190, 24283),

Gene: Thespis_24 Start: 22517, Stop: 22879, Start Num: 105
Candidate Starts for Thespis_24:
(Start: 105 @22517 has 433 MA's), (131, 22619), (146, 22670), (151, 22685), (156, 22700), (169, 22760), (178, 22796), (192, 22847),

Gene: Thimann_29 Start: 24123, Stop: 24467, Start Num: 106
Candidate Starts for Thimann_29:
(22, 23766), (61, 24003), (80, 24054), (Start: 106 @24123 has 47 MA's), (110, 24144), (113, 24156), (128, 24234), (143, 24300), (150, 24315), (162, 24357),

Gene: ThulaThula_24 Start: 23080, Stop: 23442, Start Num: 105
Candidate Starts for ThulaThula_24:

(Start: 105 @23080 has 433 MA's), (131, 23182), (151, 23248), (180, 23365), (182, 23374), (190, 23404),

Gene: Thyatira_28 Start: 25025, Stop: 25387, Start Num: 105
Candidate Starts for Thyatira_28:
(Start: 105 @25025 has 433 MA's), (131, 25127), (166, 25250), (173, 25286), (177, 25301), (180, 25310), (188, 25343), (192, 25355), (193, 25364),

Gene: Tierra_29 Start: 24546, Stop: 24902, Start Num: 105
Candidate Starts for Tierra_29:
(Start: 92 @24507 has 1 MA's), (Start: 105 @24546 has 433 MA's), (123, 24606), (136, 24705), (158, 24747), (162, 24765), (190, 24867),

Gene: Tigress9_29 Start: 23716, Stop: 24072, Start Num: 105
Candidate Starts for Tigress9_29:
(Start: 92 @23677 has 1 MA's), (94, 23683), (Start: 105 @23716 has 433 MA's), (122, 23773), (123, 23776), (136, 23875), (158, 23917), (162, 23935), (190, 24037),

Gene: Tillicus_33 Start: 29519, Stop: 29884, Start Num: 105
Candidate Starts for Tillicus_33:
(Start: 105 @29519 has 433 MA's), (138, 29660), (164, 29732), (166, 29747), (180, 29807), (190, 29846), (198, 29879),

Gene: TingHuaYa_29 Start: 23583, Stop: 23939, Start Num: 105
Candidate Starts for TingHuaYa_29:
(Start: 105 @23583 has 433 MA's), (158, 23784), (190, 23904),

Gene: TiniBug_29 Start: 24376, Stop: 24747, Start Num: 105
Candidate Starts for TiniBug_29:
(Start: 105 @24376 has 433 MA's), (138, 24538), (158, 24592), (169, 24631),

Gene: Tiri_29 Start: 24425, Stop: 24796, Start Num: 105
Candidate Starts for Tiri_29:
(Start: 105 @24425 has 433 MA's), (138, 24587), (158, 24641), (162, 24659), (169, 24680), (190, 24761),

Gene: TootsiePop_22 Start: 22869, Stop: 23210, Start Num: 107
Candidate Starts for TootsiePop_22:
(Start: 107 @22869 has 250 MA's), (154, 23064), (160, 23082), (177, 23154), (179, 23160), (185, 23187),

Gene: Tootsieroll_22 Start: 22840, Stop: 23181, Start Num: 107
Candidate Starts for Tootsieroll_22:
(24, 22516), (Start: 86 @22786 has 1 MA's), (Start: 107 @22840 has 250 MA's), (125, 22909), (154, 23035), (160, 23053), (177, 23125), (179, 23131),

Gene: Topiatin_23 Start: 23699, Stop: 24040, Start Num: 107
Candidate Starts for Topiatin_23:
(24, 23375), (Start: 86 @23645 has 1 MA's), (Start: 107 @23699 has 250 MA's), (125, 23768), (154, 23894), (160, 23912), (177, 23984), (179, 23990), (185, 24017),

Gene: Topper_29 Start: 24453, Stop: 24824, Start Num: 105
Candidate Starts for Topper_29:

(Start: 105 @24453 has 433 MA's), (138, 24615), (158, 24669), (162, 24687), (190, 24789),

Gene: Toron_23 Start: 23377, Stop: 23730, Start Num: 101
Candidate Starts for Toron_23:
(101, 23377), (Start: 108 @23389 has 5 MA's), (120, 23440), (125, 23458), (150, 23572), (154, 23584), (160, 23602), (170, 23644), (179, 23680), (190, 23719),

Gene: Torres_25 Start: 23944, Stop: 24318, Start Num: 105
Candidate Starts for Torres_25:
(Start: 105 @23944 has 433 MA's), (114, 23980), (123, 24007), (152, 24145), (186, 24274), (190, 24283),

Gene: Tortellini_24 Start: 23121, Stop: 23483, Start Num: 105
Candidate Starts for Tortellini_24:
(Start: 105 @23121 has 433 MA's), (131, 23223), (151, 23289), (164, 23331), (169, 23364), (173, 23382), (185, 23430), (188, 23439), (192, 23451),

Gene: Totinger_22 Start: 22790, Stop: 23131, Start Num: 107
Candidate Starts for Totinger_22:
(24, 22466), (Start: 86 @22736 has 1 MA's), (Start: 107 @22790 has 250 MA's), (125, 22859), (150, 22973), (160, 23003), (177, 23075), (179, 23081), (185, 23108),

Gene: Towmatter_38 Start: 35786, Stop: 36151, Start Num: 103
Candidate Starts for Towmatter_38:
(Start: 103 @35786 has 17 MA's), (135, 35921), (160, 35984), (164, 35999), (166, 36014), (169, 36032), (190, 36113),

Gene: TpudiCK_33 Start: 28084, Stop: 28446, Start Num: 105
Candidate Starts for TpudiCK_33:
(61, 27964), (75, 28000), (76, 28003), (80, 28015), (Start: 102 @28081 has 1 MA's), (Start: 105 @28084 has 433 MA's), (131, 28186), (138, 28222), (151, 28252), (164, 28294), (180, 28369), (182, 28378), (190, 28408),

Gene: Tracker_46 Start: 36113, Stop: 36454, Start Num: 105
Candidate Starts for Tracker_46:
(Start: 105 @36113 has 433 MA's), (137, 36263), (152, 36287), (158, 36305), (159, 36308), (167, 36329), (169, 36344), (178, 36380), (188, 36413),

Gene: TreyKay_29 Start: 24385, Stop: 24756, Start Num: 105
Candidate Starts for TreyKay_29:
(Start: 105 @24385 has 433 MA's), (138, 24547), (158, 24601), (160, 24607), (162, 24619), (169, 24640), (190, 24721),

Gene: TribleTrouble_28 Start: 24976, Stop: 25332, Start Num: 105
Candidate Starts for TribleTrouble_28:
(Start: 105 @24976 has 433 MA's), (113, 25006), (123, 25036), (136, 25135), (150, 25153), (158, 25177), (160, 25183), (162, 25195), (190, 25297),

Gene: Trice_25 Start: 23944, Stop: 24318, Start Num: 105
Candidate Starts for Trice_25:
(Start: 105 @23944 has 433 MA's), (114, 23980), (123, 24007), (152, 24145), (186, 24274), (190, 24283),

Gene: Trine_26 Start: 20938, Stop: 21297, Start Num: 107
Candidate Starts for Trine_26:
(Start: 107 @20938 has 250 MA's), (120, 20989), (149, 21124), (159, 21154),

Gene: TruffulaTree_29 Start: 24416, Stop: 24787, Start Num: 105
Candidate Starts for TruffulaTree_29:
(Start: 105 @24416 has 433 MA's), (138, 24578), (158, 24632), (162, 24650), (169, 24671), (190, 24752),

Gene: Turuncu_51 Start: 37687, Stop: 38028, Start Num: 105
Candidate Starts for Turuncu_51:
(Start: 105 @37687 has 433 MA's), (137, 37837), (151, 37858), (156, 37873), (167, 37903),

Gene: Tweety_22 Start: 23051, Stop: 23392, Start Num: 107
Candidate Starts for Tweety_22:
(24, 22727), (Start: 86 @22997 has 1 MA's), (Start: 107 @23051 has 250 MA's), (125, 23120), (154, 23246), (160, 23264), (177, 23336), (179, 23342), (185, 23369),

Gene: Twitch_29 Start: 24453, Stop: 24824, Start Num: 105
Candidate Starts for Twitch_29:
(Start: 105 @24453 has 433 MA's), (138, 24615), (158, 24669), (162, 24687), (190, 24789),

Gene: TyDawg_32 Start: 28085, Stop: 28447, Start Num: 105
Candidate Starts for TyDawg_32:
(61, 27965), (75, 28001), (76, 28004), (80, 28016), (Start: 102 @28082 has 1 MA's), (Start: 105 @28085 has 433 MA's), (131, 28187), (138, 28223), (151, 28253), (164, 28295), (180, 28370), (182, 28379), (190, 28409),

Gene: Typha_29 Start: 27112, Stop: 27510, Start Num: 105
Candidate Starts for Typha_29:
(9, 26608), (10, 26611), (15, 26662), (16, 26668), (26, 26791), (27, 26800), (28, 26803), (35, 26851), (37, 26854), (38, 26860), (47, 26923), (59, 26977), (61, 26980), (63, 26983), (65, 26986), (67, 26992), (75, 27016), (76, 27019), (78, 27025), (80, 27031), (Start: 105 @27112 has 433 MA's), (131, 27214), (140, 27262), (146, 27301), (164, 27358), (175, 27412), (180, 27433),

Gene: Ubuntu_28 Start: 24633, Stop: 24989, Start Num: 105
Candidate Starts for Ubuntu_28:
(Start: 105 @24633 has 433 MA's), (120, 24684), (125, 24702), (128, 24741), (136, 24792), (138, 24795), (151, 24813), (156, 24828), (169, 24873), (178, 24909), (181, 24921), (192, 24957),

Gene: UncleRicky_24 Start: 24317, Stop: 24658, Start Num: 107
Candidate Starts for UncleRicky_24:
(24, 23993), (Start: 86 @24263 has 1 MA's), (Start: 107 @24317 has 250 MA's), (125, 24386), (154, 24512), (160, 24530), (177, 24602), (179, 24608), (185, 24635),

Gene: Unicorn_29 Start: 23875, Stop: 24231, Start Num: 105
Candidate Starts for Unicorn_29:
(Start: 105 @23875 has 433 MA's), (123, 23935), (136, 24034), (158, 24076), (162, 24094), (190, 24196),

Gene: Upyo_26 Start: 21192, Stop: 21551, Start Num: 107
Candidate Starts for Upyo_26:

(40, 20952), (41, 20976), (Start: 107 @21192 has 250 MA's), (109, 21198), (120, 21243), (128, 21300), (157, 21402), (162, 21423), (190, 21531),

Gene: Urkel_29 Start: 24379, Stop: 24750, Start Num: 105
Candidate Starts for Urkel_29:
(Start: 105 @24379 has 433 MA's), (138, 24541), (158, 24595), (169, 24634),

Gene: VRedHorse_21 Start: 23165, Stop: 23506, Start Num: 107
Candidate Starts for VRedHorse_21:
(24, 22841), (Start: 86 @23111 has 1 MA's), (Start: 107 @23165 has 250 MA's), (125, 23234), (154, 23360), (160, 23378), (177, 23450), (179, 23456), (185, 23483),

Gene: ValentiniPuff_76 Start: 43850, Stop: 44197, Start Num: 107
Candidate Starts for ValentiniPuff_76:
(Start: 107 @43850 has 250 MA's),

Gene: Validus_29 Start: 23713, Stop: 24087, Start Num: 105
Candidate Starts for Validus_29:
(Start: 105 @23713 has 433 MA's), (114, 23749), (123, 23776), (125, 23785), (160, 23938), (162, 23950), (169, 23971), (190, 24052),

Gene: Veliki_29 Start: 24456, Stop: 24827, Start Num: 105
Candidate Starts for Veliki_29:
(Start: 105 @24456 has 433 MA's), (138, 24618), (158, 24672), (162, 24690), (190, 24792),

Gene: Venti_24 Start: 22517, Stop: 22879, Start Num: 105
Candidate Starts for Venti_24:
(Start: 105 @22517 has 433 MA's), (131, 22619), (146, 22670), (151, 22685), (156, 22700), (169, 22760), (178, 22796), (192, 22847),

Gene: Veteran_21 Start: 23003, Stop: 23344, Start Num: 107
Candidate Starts for Veteran_21:
(Start: 86 @22949 has 1 MA's), (Start: 107 @23003 has 250 MA's), (125, 23072), (150, 23186), (160, 23216), (177, 23288), (179, 23294), (185, 23321),

Gene: Vidya_24 Start: 22517, Stop: 22879, Start Num: 105
Candidate Starts for Vidya_24:
(Start: 105 @22517 has 433 MA's), (131, 22619), (146, 22670), (151, 22685), (156, 22700), (169, 22760), (178, 22796), (192, 22847),

Gene: Violac_22 Start: 23580, Stop: 23921, Start Num: 107
Candidate Starts for Violac_22:
(49, 23394), (Start: 86 @23520 has 1 MA's), (Start: 107 @23580 has 250 MA's), (125, 23649), (150, 23763), (170, 23835), (179, 23871), (190, 23910),

Gene: ViviJ_27 Start: 24931, Stop: 25329, Start Num: 105
Candidate Starts for ViviJ_27:
(Start: 105 @24931 has 433 MA's), (151, 25135), (160, 25162), (173, 25228), (180, 25252), (188, 25285), (193, 25306),

Gene: Vivum_21 Start: 22945, Stop: 23286, Start Num: 107
Candidate Starts for Vivum_21:

(24, 22621), (Start: 86 @22891 has 1 MA's), (Start: 107 @22945 has 250 MA's), (125, 23014), (150, 23128), (160, 23158), (177, 23230), (179, 23236), (185, 23263),

Gene: Vordorf_32 Start: 28004, Stop: 28366, Start Num: 106
Candidate Starts for Vordorf_32:
(Start: 106 @28004 has 47 MA's), (166, 28229), (180, 28289), (190, 28328), (192, 28334),

Gene: WST1_23 Start: 20118, Stop: 20495, Start Num: 105
Candidate Starts for WST1_23:
(98, 20103), (Start: 105 @20118 has 433 MA's), (131, 20235), (146, 20286), (166, 20358), (192, 20463),

Gene: Wachhund_21 Start: 23023, Stop: 23364, Start Num: 107
Candidate Starts for Wachhund_21:
(24, 22699), (Start: 86 @22969 has 1 MA's), (Start: 107 @23023 has 250 MA's), (125, 23092), (154, 23218), (160, 23236), (177, 23308), (179, 23314), (185, 23341),

Gene: Wanda_42 Start: 35426, Stop: 35767, Start Num: 107
Candidate Starts for Wanda_42:
(24, 35102), (Start: 86 @35372 has 1 MA's), (Start: 107 @35426 has 250 MA's), (125, 35495), (154, 35621), (160, 35639), (177, 35711), (179, 35717), (185, 35744),

Gene: Waterfoul_28 Start: 25046, Stop: 25408, Start Num: 105
Candidate Starts for Waterfoul_28:
(Start: 105 @25046 has 433 MA's), (131, 25148), (156, 25229), (164, 25256), (169, 25289), (173, 25307), (180, 25331), (183, 25343), (188, 25364), (193, 25385),

Gene: Webster2_28 Start: 24633, Stop: 24989, Start Num: 105
Candidate Starts for Webster2_28:
(Start: 105 @24633 has 433 MA's), (120, 24684), (125, 24702), (128, 24741), (136, 24792), (138, 24795), (151, 24813), (156, 24828), (169, 24873), (178, 24909), (181, 24921), (192, 24957),

Gene: Wee_22 Start: 23572, Stop: 23913, Start Num: 107
Candidate Starts for Wee_22:
(24, 23248), (Start: 86 @23518 has 1 MA's), (Start: 107 @23572 has 250 MA's), (125, 23641), (154, 23767), (160, 23785), (177, 23857), (179, 23863), (185, 23890),

Gene: Whatsapiecost_21 Start: 23048, Stop: 23389, Start Num: 107
Candidate Starts for Whatsapiecost_21:
(24, 22724), (Start: 86 @22994 has 1 MA's), (Start: 107 @23048 has 250 MA's), (125, 23117), (154, 23243), (160, 23261), (177, 23333), (179, 23339), (185, 23366),

Gene: WheatThin_28 Start: 24404, Stop: 24772, Start Num: 103
Candidate Starts for WheatThin_28:
(Start: 103 @24404 has 17 MA's), (151, 24578),

Gene: Wheezy_46 Start: 36318, Stop: 36659, Start Num: 105
Candidate Starts for Wheezy_46:
(Start: 105 @36318 has 433 MA's), (137, 36468), (152, 36492), (158, 36510), (159, 36513), (167, 36534), (169, 36549), (178, 36585), (188, 36618),

Gene: Whitney_33 Start: 25341, Stop: 25685, Start Num: 106
Candidate Starts for Whitney_33:

(Start: 106 @25341 has 47 MA's), (110, 25362), (128, 25452), (143, 25518), (150, 25533), (159, 25560), (162, 25575), (171, 25614), (178, 25635), (185, 25659),

Gene: Whitty_26 Start: 23229, Stop: 23579, Start Num: 107
Candidate Starts for Whitty_26:
(31, 22935), (Start: 107 @23229 has 250 MA's), (Start: 111 @23250 has 2 MA's), (124, 23292), (175, 23499),

Gene: WhoseManz_47 Start: 33777, Stop: 34121, Start Num: 105
Candidate Starts for WhoseManz_47:
(Start: 105 @33777 has 433 MA's), (151, 33948), (167, 33993),

Gene: Whouxphf_21 Start: 23105, Stop: 23446, Start Num: 107
Candidate Starts for Whouxphf_21:
(24, 22781), (Start: 86 @23051 has 1 MA's), (Start: 107 @23105 has 250 MA's), (154, 23300), (160, 23318), (177, 23390), (179, 23396), (185, 23423),

Gene: Widow_27 Start: 21267, Stop: 21623, Start Num: 107
Candidate Starts for Widow_27:
(Start: 107 @21267 has 250 MA's), (120, 21318), (151, 21456), (181, 21570),

Gene: WillSterrel_22 Start: 24391, Stop: 24732, Start Num: 107
Candidate Starts for WillSterrel_22:
(24, 24067), (Start: 86 @24337 has 1 MA's), (Start: 107 @24391 has 250 MA's), (125, 24460), (154, 24586), (160, 24604), (177, 24676), (179, 24682), (185, 24709),

Gene: Willsammy_24 Start: 22786, Stop: 23148, Start Num: 105
Candidate Starts for Willsammy_24:
(Start: 105 @22786 has 433 MA's), (131, 22888), (151, 22954), (188, 23104), (192, 23116),

Gene: Wintermute_30 Start: 25611, Stop: 25988, Start Num: 105
Candidate Starts for Wintermute_30:
(Start: 105 @25611 has 433 MA's), (138, 25776), (156, 25824), (160, 25836), (169, 25869), (181, 25920), (186, 25941), (190, 25950),

Gene: Wishmaker_28 Start: 24633, Stop: 24989, Start Num: 105
Candidate Starts for Wishmaker_28:
(Start: 105 @24633 has 433 MA's), (120, 24684), (125, 24702), (128, 24741), (136, 24792), (138, 24795), (151, 24813), (156, 24828), (169, 24873), (178, 24909), (181, 24921), (192, 24957),

Gene: Woes_32 Start: 39766, Stop: 40131, Start Num: 105
Candidate Starts for Woes_32:
(Start: 105 @39766 has 433 MA's), (113, 39796), (120, 39817), (152, 39958), (156, 39970), (158, 39976), (172, 40033), (175, 40039), (192, 40105), (196, 40123),

Gene: Wojtek_33 Start: 29816, Stop: 30181, Start Num: 105
Candidate Starts for Wojtek_33:
(Start: 105 @29816 has 433 MA's), (138, 29957), (160, 30014), (164, 30029), (166, 30044), (180, 30104), (190, 30143), (198, 30176),

Gene: WorMMAs_27 Start: 20748, Stop: 21107, Start Num: 107
Candidate Starts for WorMMAs_27:

(Start: 107 @20748 has 250 MA's), (117, 20790), (124, 20811), (149, 20934), (162, 20979), (181, 21054), (190, 21087),

Gene: XFactor_21 Start: 23004, Stop: 23345, Start Num: 107
Candidate Starts for XFactor_21:
(24, 22680), (Start: 86 @22950 has 1 MA's), (Start: 107 @23004 has 250 MA's), (125, 23073), (154, 23199), (160, 23217), (177, 23289), (179, 23295), (185, 23322),

Gene: Xavia_24 Start: 23140, Stop: 23502, Start Num: 105
Candidate Starts for Xavia_24:
(Start: 105 @23140 has 433 MA's), (131, 23242), (146, 23293), (151, 23308), (156, 23323), (169, 23383), (173, 23401), (192, 23470),

Gene: Xeno_23 Start: 21421, Stop: 21783, Start Num: 105
Candidate Starts for Xeno_23:
(Start: 105 @21421 has 433 MA's), (131, 21523), (146, 21574), (151, 21589), (156, 21604), (169, 21664), (192, 21751),

Gene: Ximenita_30 Start: 23902, Stop: 24258, Start Num: 105
Candidate Starts for Ximenita_30:
(Start: 105 @23902 has 433 MA's), (122, 23959), (123, 23962), (135, 24058), (136, 24061), (158, 24103), (162, 24121), (190, 24223),

Gene: Y10_30 Start: 25611, Stop: 25988, Start Num: 105
Candidate Starts for Y10_30:
(Start: 105 @25611 has 433 MA's), (138, 25776), (156, 25824), (160, 25836), (169, 25869), (181, 25920), (186, 25941), (190, 25950),

Gene: Y2_30 Start: 25611, Stop: 25988, Start Num: 105
Candidate Starts for Y2_30:
(Start: 105 @25611 has 433 MA's), (138, 25776), (156, 25824), (160, 25836), (169, 25869), (181, 25920), (186, 25941), (190, 25950),

Gene: YasnayaPolyana_30 Start: 25612, Stop: 25989, Start Num: 105
Candidate Starts for YasnayaPolyana_30:
(Start: 105 @25612 has 433 MA's), (138, 25777), (156, 25825), (160, 25837), (169, 25870), (181, 25921), (186, 25942), (190, 25951),

Gene: Yikes_35 Start: 31198, Stop: 31563, Start Num: 105
Candidate Starts for Yikes_35:
(Start: 105 @31198 has 433 MA's), (131, 31303), (166, 31426), (190, 31525), (198, 31558),

Gene: Yndexa_47 Start: 35717, Stop: 36061, Start Num: 105
Candidate Starts for Yndexa_47:
(14, 35240), (17, 35279), (21, 35330), (36, 35459), (56, 35570), (71, 35612), (77, 35630), (91, 35675), (Start: 105 @35717 has 433 MA's), (151, 35888), (167, 35933),

Gene: Yorick_21 Start: 23068, Stop: 23409, Start Num: 107
Candidate Starts for Yorick_21:
(49, 22882), (Start: 86 @23008 has 1 MA's), (Start: 107 @23068 has 250 MA's), (125, 23137), (150, 23251), (170, 23323), (179, 23359), (190, 23398),

Gene: YoureAdopted_28 Start: 24389, Stop: 24760, Start Num: 105

Candidate Starts for YoureAdopted_28:
(Start: 105 @24389 has 433 MA's), (134, 24530), (138, 24551), (158, 24605), (162, 24623), (169, 24644), (190, 24725),

Gene: Yuna_30 Start: 24273, Stop: 24644, Start Num: 105
Candidate Starts for Yuna_30:
(Start: 105 @24273 has 433 MA's), (113, 24303), (138, 24435), (158, 24489), (160, 24495), (162, 24507), (181, 24579), (188, 24603), (190, 24609),

Gene: Yunkel11_29 Start: 23685, Stop: 24056, Start Num: 105
Candidate Starts for Yunkel11_29:
(Start: 105 @23685 has 433 MA's), (134, 23826), (138, 23847), (158, 23901), (162, 23919), (169, 23940), (190, 24021),

Gene: Zabiza_29 Start: 24420, Stop: 24791, Start Num: 105
Candidate Starts for Zabiza_29:
(Start: 105 @24420 has 433 MA's), (138, 24582), (158, 24636), (162, 24654), (190, 24756),

Gene: Zany_33 Start: 30723, Stop: 31088, Start Num: 105
Candidate Starts for Zany_33:
(Start: 105 @30723 has 433 MA's), (160, 30921), (164, 30936), (166, 30951), (190, 31050), (198, 31083),

Gene: Zavala_29 Start: 24395, Stop: 24766, Start Num: 105
Candidate Starts for Zavala_29:
(Start: 105 @24395 has 433 MA's), (138, 24557), (158, 24611), (162, 24629), (169, 24650), (190, 24731),

Gene: ZenTime222_26 Start: 23250, Stop: 23579, Start Num: 111
Candidate Starts for ZenTime222_26:
(31, 22935), (Start: 107 @23229 has 250 MA's), (Start: 111 @23250 has 2 MA's), (124, 23292), (175, 23499),

Gene: Zerg_21 Start: 22964, Stop: 23305, Start Num: 107
Candidate Starts for Zerg_21:
(Start: 107 @22964 has 250 MA's), (125, 23033), (154, 23159), (160, 23177), (177, 23249), (179, 23255), (185, 23282),

Gene: Zilizebeth_24 Start: 22517, Stop: 22879, Start Num: 105
Candidate Starts for Zilizebeth_24:
(Start: 105 @22517 has 433 MA's), (131, 22619), (146, 22670), (151, 22685), (156, 22700), (169, 22760), (178, 22796), (192, 22847),

Gene: Zizzle_21 Start: 23012, Stop: 23353, Start Num: 107
Candidate Starts for Zizzle_21:
(49, 22826), (Start: 86 @22952 has 1 MA's), (Start: 107 @23012 has 250 MA's), (125, 23081), (150, 23195), (170, 23267), (179, 23303), (190, 23342),

Gene: Zodiariah_23 Start: 22978, Stop: 23340, Start Num: 106
Candidate Starts for Zodiariah_23:
(Start: 106 @22978 has 47 MA's), (138, 23116), (166, 23203),

Gene: ZoeJ_27 Start: 22641, Stop: 23009, Start Num: 106

Candidate Starts for ZoeJ_27:
(Start: 106 @22641 has 47 MA's), (123, 22701), (138, 22803), (160, 22863), (162, 22875), (169, 22896),