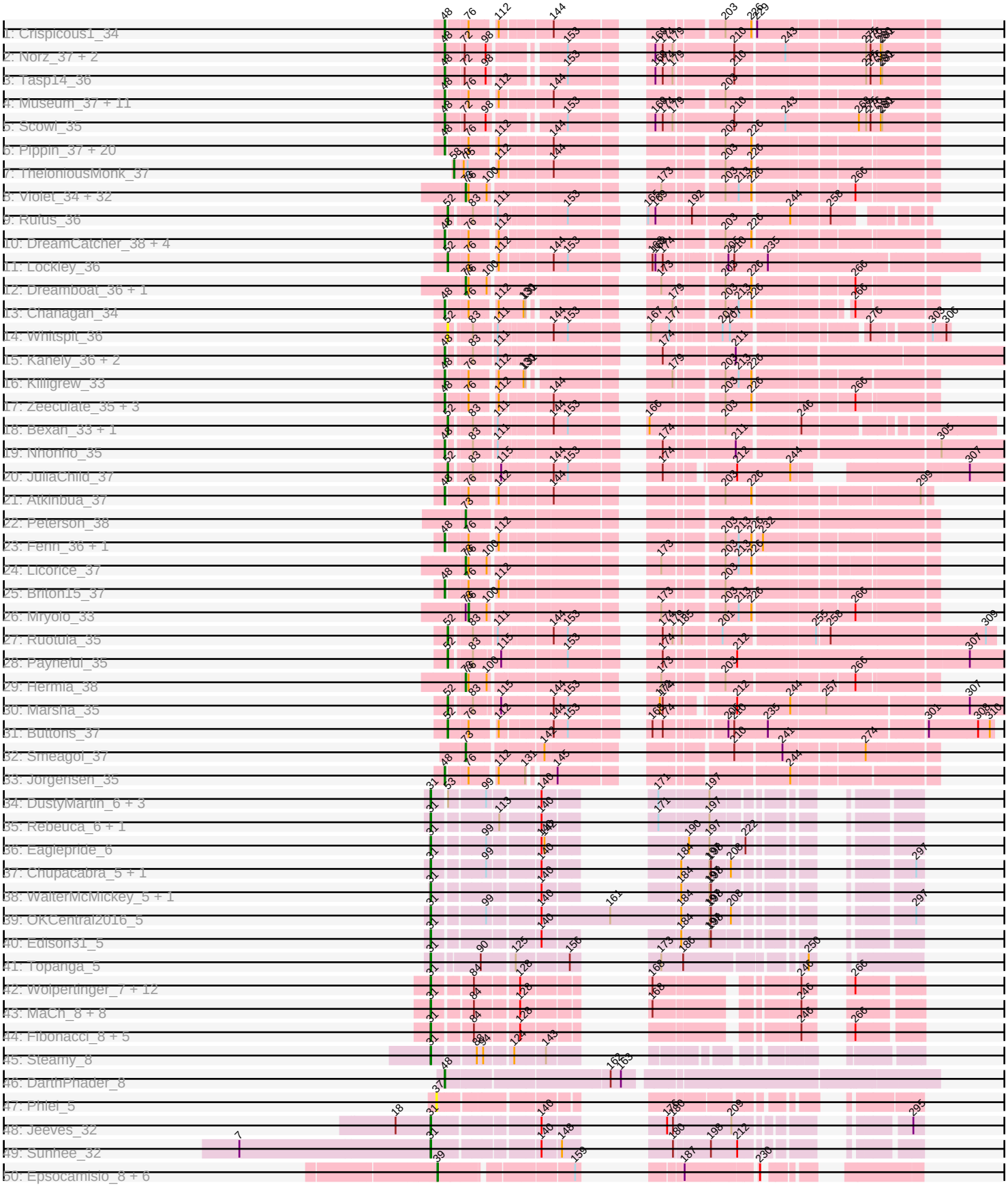
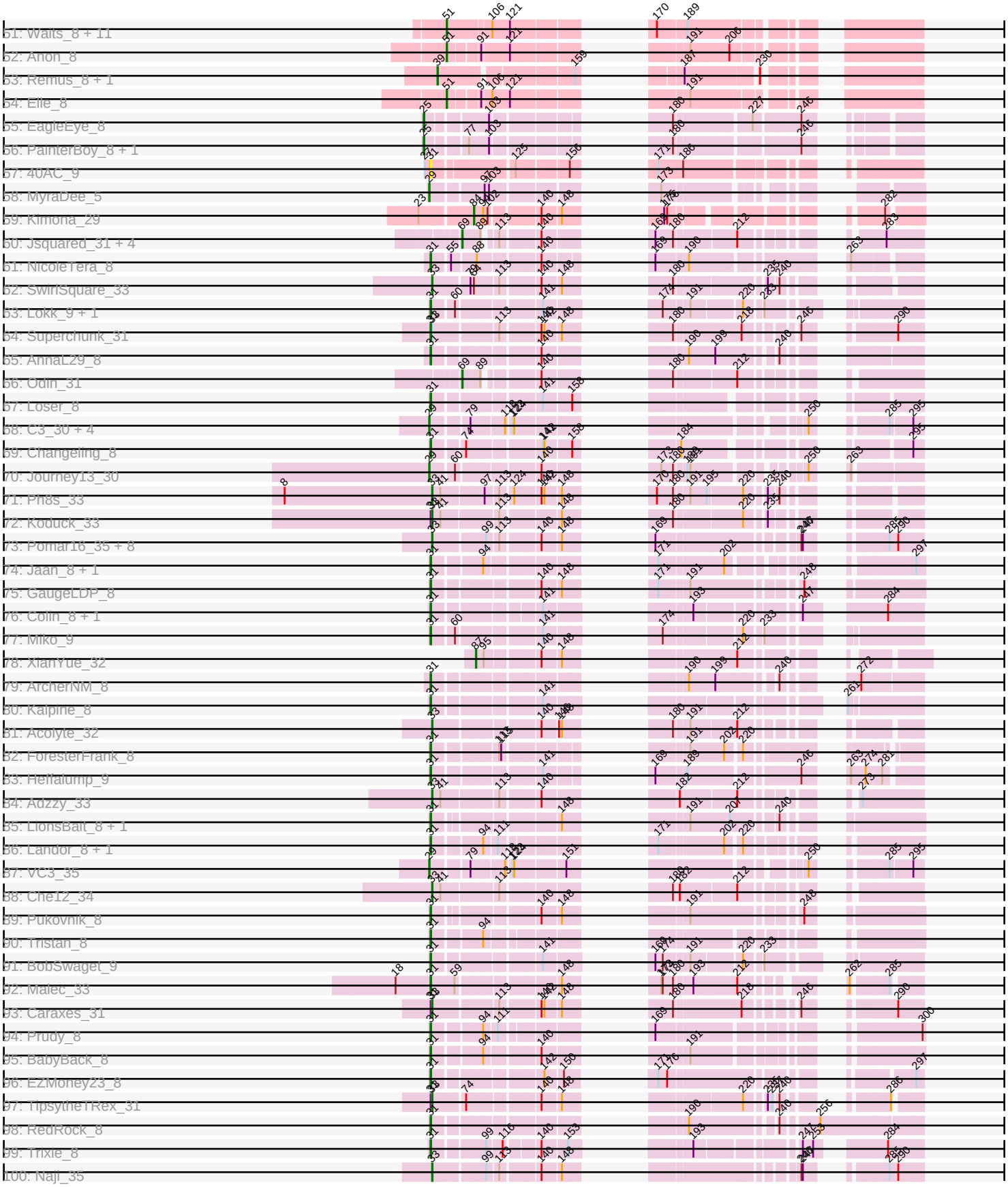
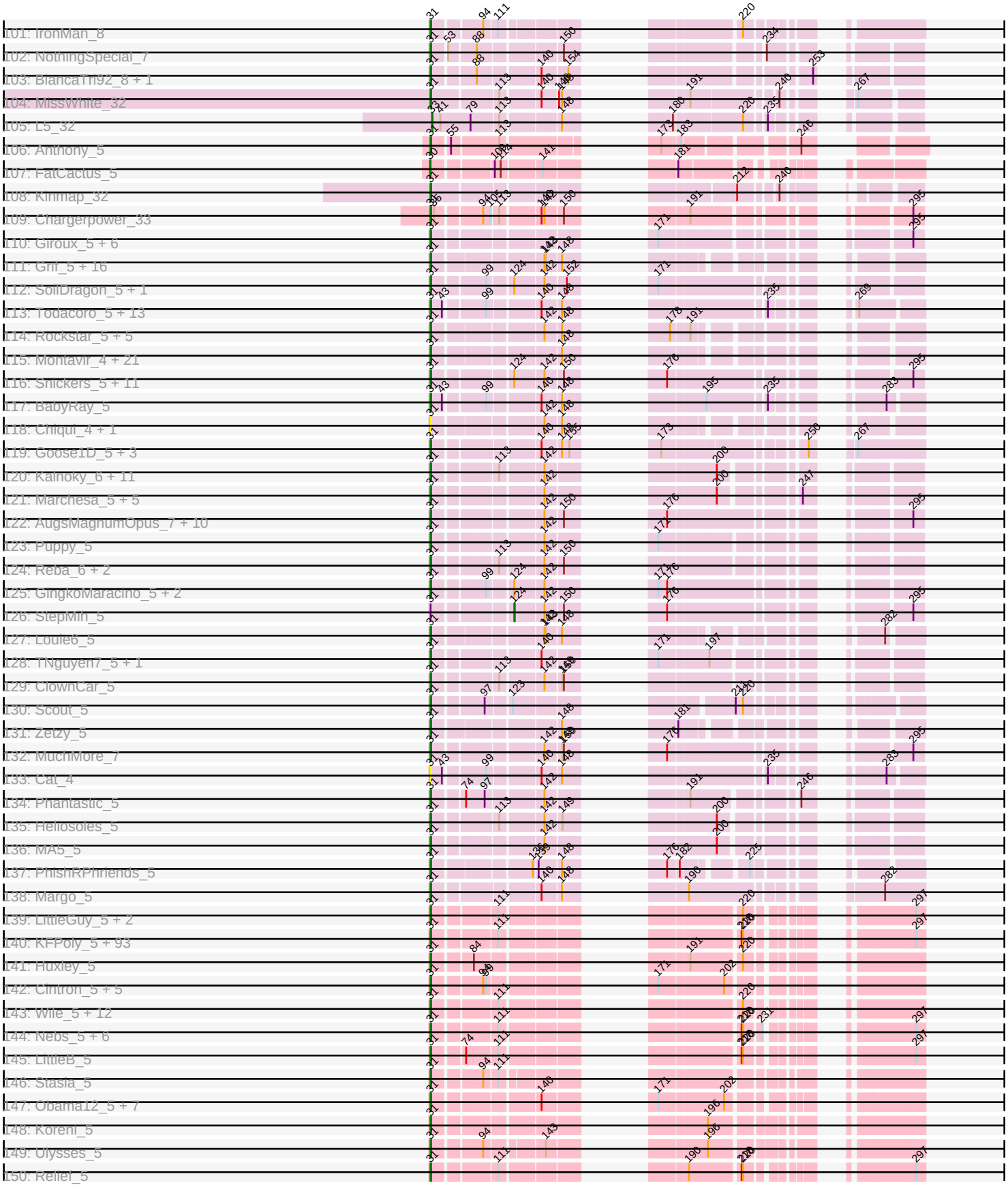
Pham 347030


1: Crispicous1_34
2: Norz_37 + 2
3: Tasp14_36
4: Museum_37 + 11
5: Scowl_35
6: Pippin_37 + 20
7: TheloniousMonk_37
8: Violet_34 + 32
9: Rufus_36
10: DreamCatcher_38 + 4
11: Lockley_36
12: Dreamboat_36 + 1
13: Chanagan_34
14: Whitspit_36
15: Kanely_36 + 2
16: Killigrew_33
17: Zeeculate_35 + 3
18: Bexan_33 + 1
19: Nhonho_35
20: JuliaChild_37
21: Atkinbua_37
22: Peterson_38
23: Fenn_36 + 1
24: Licorice_37
25: Brilon15_37
26: Mryolo_33
27: Ruotula_35
28: Payneful_35
29: Hermia_38
30: Marsha_35
31: Buttons_37
32: Smeagol_37
33: Jorgensen_35
34: DustyMartin_6 + 3
35: Rebeuca_6 + 1
36: Eaglepride_6
37: Chupacabra_5 + 1
38: WalterMcMickey_5 + 1
39: OKCentral2016_5
40: Edison31_5
41: Topanga_5
42: Wolpertinger_7 + 12
43: MaCh_8 + 8
44: Fibonacci_8 + 5
45: Steamy_8
46: DarthPhader_8
47: Phiel_5
48: Jeeves_32
49: Sunhee_32
50: Epsocamisio_8 + 6

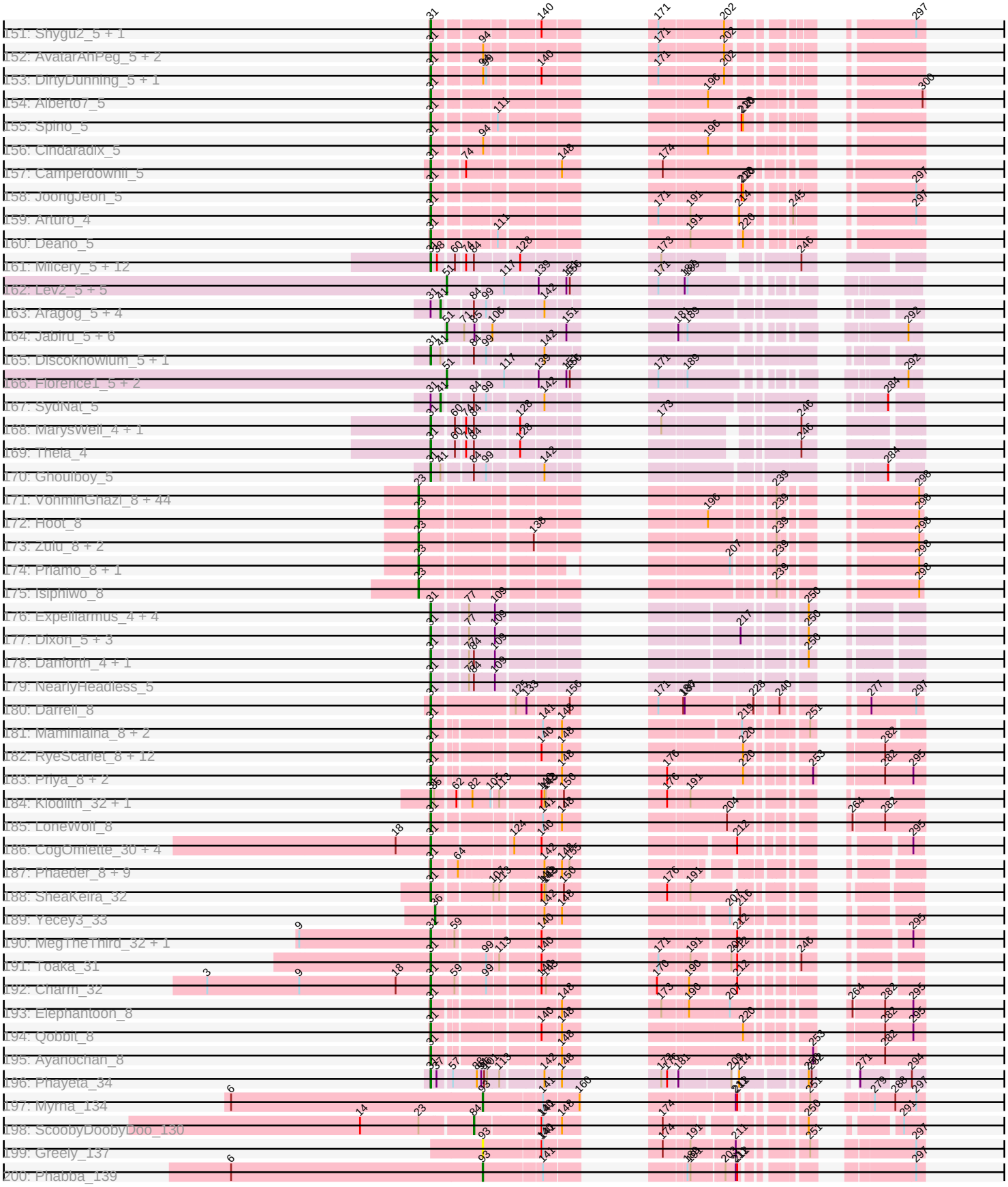
Pham 347030


51: Walls_8 + 11
52: Anon_8
53: Remus_8 + 1
54: Ellie_8
55: EagleEye_8
56: PainterBoy_8 + 1
57: 40AC_9
58: MyraDee_5
59: Kimona_29
60: Jsquared_31 + 4
61: NicoleTera_8
62: SwimSquare_33
63: Lokk_9 + 1
64: Superchunk_31
65: AnnaL29_8
66: Odin_31
67: Loser_8
68: C3_30 + 4
69: Changeling_8
70: Journey13_30
71: Ph8s_33
72: Koduck_33
73: Pomar16_35 + 8
74: Jaan_8 + 1
75: GaugeLDP_8
76: Colin_8 + 1
77: Miko_9
78: XianYue_32
79: ArcherNM_8
80: Kalpine_8
81: Acolyte_32
82: ForesterFrank_8
83: Hellalump_9
84: Adzzy_33
85: LionsBait_8 + 1
86: Landor_8 + 1
87: VC3_35
88: Che12_34
89: Pukovnik_8
90: Tristan_8
91: BobSwaget_9
92: Malec_33
93: Caraxes_31
94: Prudy_8
95: BabyBack_8
96: EzMoney23_8
97: TipsytheTRex_31
98: RedRock_8
99: Trixie_8
100: Naji_35

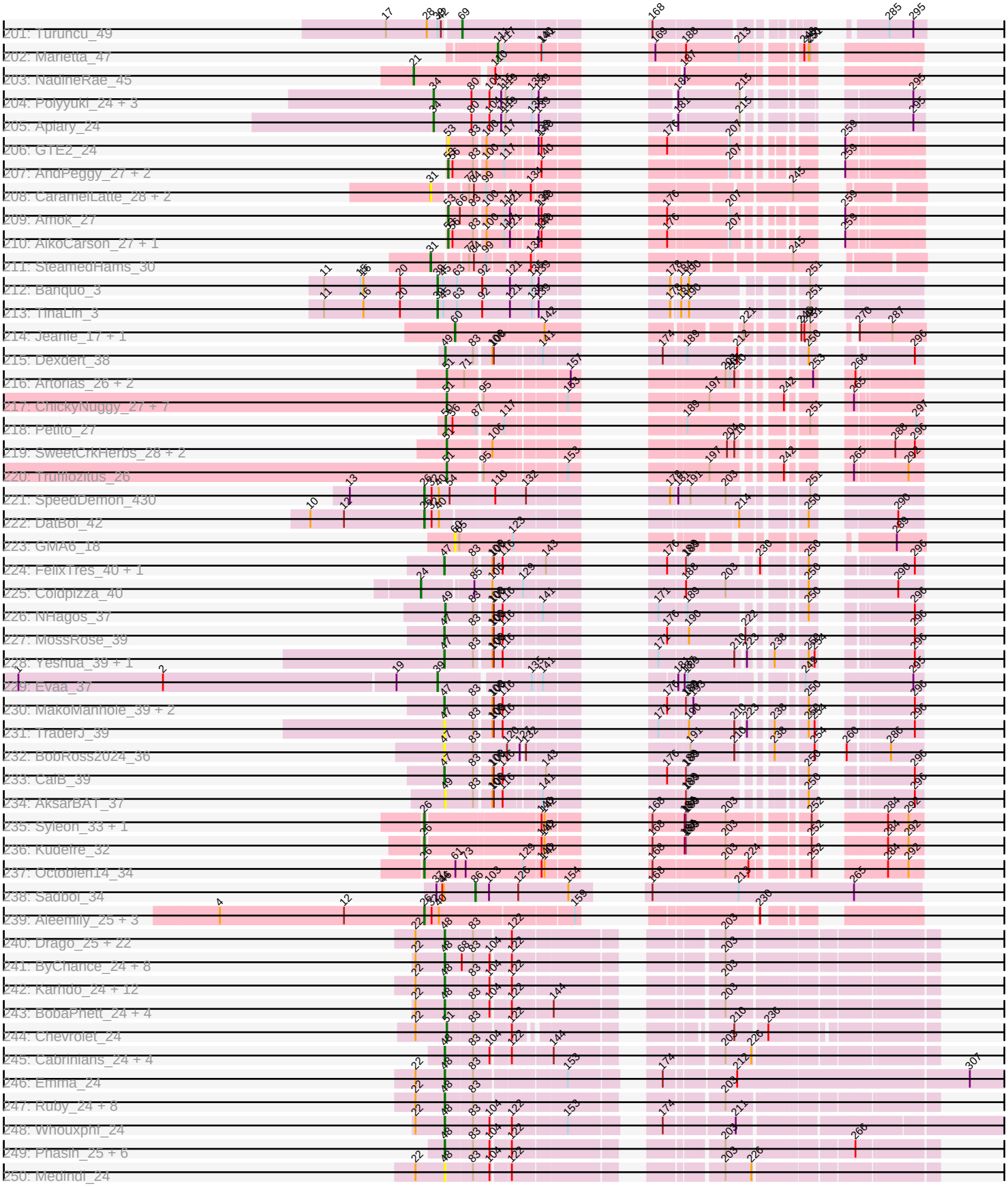
Pham 347030


I01: IronMan_8
I02: NothingSpecial_7
I03: Bianca1ll92_8 + 1
I04: MissWhite_32
I05: L5_32
I06: Anthony_5
I07: FatCactus_5
I08: Kinmap_32
I09: Chargerpower_33
I10: Giroux_5 + 6
I11: Grif_5 + 16
I12: SoliDragon_5 + 1
I13: Todacoro_5 + 13
I14: Rockstar_5 + 5
I15: Montavir_4 + 21
I16: Snickers_5 + 11
I17: BabyRay_5
I18: Chiqui_4 + 1
I19: Goose1D_5 + 3
I20: Kainoky_6 + 11
I21: Marchesa_5 + 5
I22: AugsMagnumOpus_7 + 10
I23: Puppy_5
I24: Reba_6 + 2
I25: GingkoMaracino_5 + 2
I26: StepMin_5
I27: Louie6_5
I28: TNguyen7_5 + 1
I29: ClownCar_5
I30: Scout_5
I31: Zetzy_5
I32: MuchMore_7
I33: Cat_4
I34: Phantastic_5
I35: Heliosoles_5
I36: MA5_5
I37: PhishRPhriends_5
I38: Margo_5
I39: LittleGuy_5 + 2
I40: KFPoly_5 + 93
I41: Huxley_5
I42: Cintron_5 + 5
I43: Wile_5 + 12
I44: Nebs_5 + 6
I45: LittleB_5
I46: Stasia_5
I47: Obama12_5 + 7
I48: Koreni_5
I49: Ulysses_5
I50: Relief_5

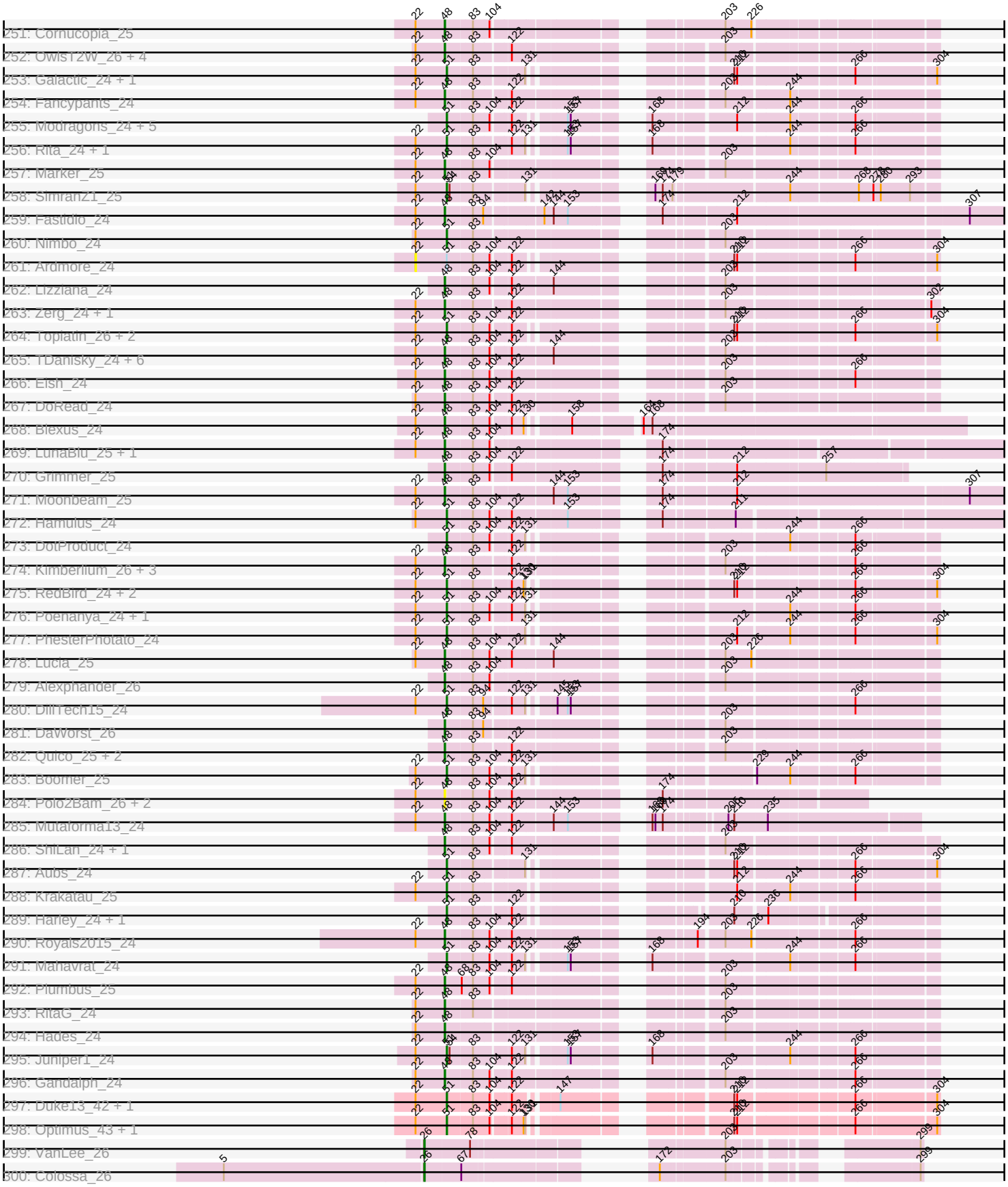
Pham 347030


151: Shygu2_5 + 1
152: AvatarAhPeg_5 + 2
153: DirtyDunning_5 + 1
154: Alberto7_5
155: Spino_5
156: Cindaradix_5
157: Camperdownii_5
158: JoongJeon_5
159: Arturo_4
160: Deano_5
161: Mllcery_5 + 12
162: Lev2_5 + 5
163: Aragog_5 + 4
164: Jabiru_5 + 6
165: Discoknowium_5 + 1
166: Florence1_5 + 2
167: SyuNat_5
168: MarysWell_4 + 1
169: Thela_4
170: Ghoulboy_5
171: VohminGhazi_8 + 44
172: Root_8
173: Zulu_8 + 2
174: Priamo_8 + 1
175: Isiphiwo_8
176: Expelliarmus_4 + 4
177: Dixon_5 + 3
178: Danforth_4 + 1
179: NearlyHeadless_5
180: Darrell_8
181: Mamihlaiha_8 + 2
182: RyeScarlet_8 + 12
183: Priya_8 + 2
184: Kloolith_32 + 1
185: LoneWolf_8
186: CogOmlette_30 + 4
187: Phaeder_8 + 9
188: SneaKella_32
189: Yecey3_33
190: MegTheThird_32 + 1
191: Toaka_31
192: Charm_32
193: Elephantoon_8
194: Qobbit_8
195: Ayanochan_8
196: Phayeta_34
197: Myrna_134
198: ScoobyDoobyDoo_130
199: Greely_137
200: Phabba_139

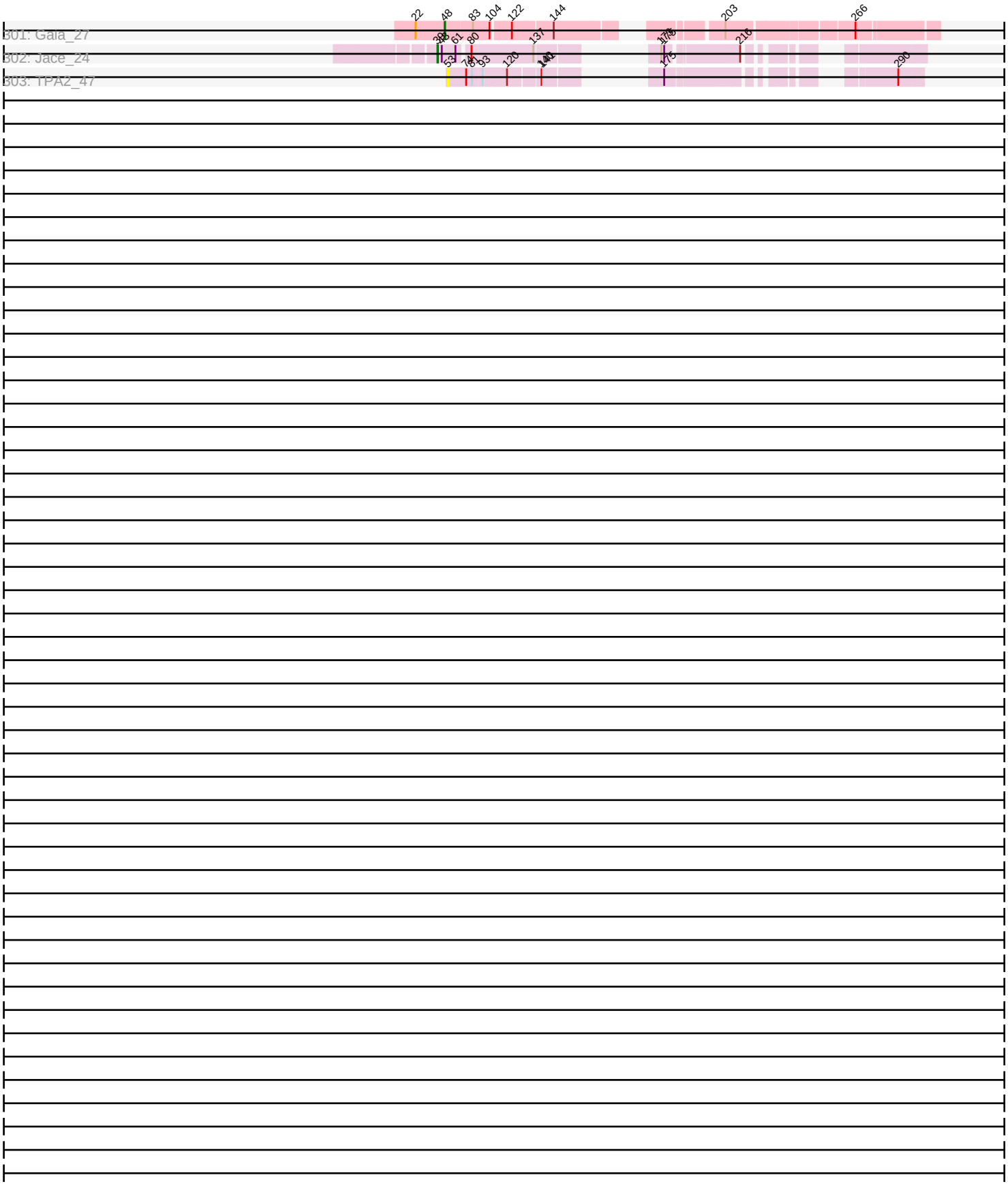
Pham 347030


201: Turuncu_49
202: Marietta_47
203: NadineRae_45
204: Polyyuki_24 + 3
205: Apiary_24
206: GTE2_24
207: AndPeggy_27 + 2
208: CaramelLatte_28 + 2
209: Amok_27
210: AikoCarson_27 + 1
211: SteamedHams_30
212: Banquo_3
213: TinaLin_3
214: Jeanie_17 + 1
215: Dexdert_38
216: Antonias_26 + 2
217: ChickyNuggy_27 + 7
218: Petito_27
219: SweetCrkHerbs_28 + 2
220: Trumiozitus_26
221: SpeedDemon_430
222: DatBoi_42
223: GMA6_18
224: FelixTres_40 + 1
225: Coldpizza_40
226: NHagos_37
227: MossRose_39
228: Yeshua_39 + 1
229: Evaa_37
230: MakoManhole_39 + 2
231: TraderJ_39
232: BobRoss2024_36
233: CalB_39
234: AksarBAT_37
235: Syleon_33 + 1
236: Kudeire_32
237: Octobien14_34
238: Sadboi_34
239: Aleemily_25 + 3
240: Drago_25 + 22
241: ByChance_24 + 8
242: Kamdo_24 + 12
243: BobaPhett_24 + 4
244: Chevrolet_24
245: Cabrinians_24 + 4
246: Emma_24
247: Ruby_24 + 8
248: Whouxphr_24
249: Phasin_25 + 6
250: Medindi_24

Pham 347030


251: Cornucopia_25
252: OwlsT2W_26 + 4
253: Galactic_24 + 1
254: Fancypants_24
255: Modragons_24 + 5
256: Rita_24 + 1
257: Marker_25
258: Simran21_25
259: Fastidio_24
260: Nimbo_24
261: Ardmore_24
262: Lizziana_24
263: Zerg_24 + 1
264: Toplatin_26 + 2
265: TDanisky_24 + 6
266: Elsh_24
267: DoRead_24
268: Blexus_24
269: LunaBlu_25 + 1
270: Grimmer_25
271: Moonbeam_25
272: Hamulus_24
273: DotProduct_24
274: Kimberlium_26 + 3
275: RedBird_24 + 2
276: Poenanya_24 + 1
277: PhesterPhotato_24
278: Lucia_25
279: Alexphander_26
280: DilTech15_24
281: DaWorst_26
282: Quico_25 + 2
283: Boomer_25
284: Polo2Bam_26 + 2
285: Mutaforma13_24
286: ShiLan_24 + 1
287: Aubs_24
288: Krakatau_25
289: Haley_24 + 1
290: Royals2015_24
291: Manavrat_24
292: Plumbus_25
293: RitaG_24
294: Hades_24
295: Juniper1_24
296: Gandalph_24
297: Duke13_42 + 1
298: Optimus_43 + 1
299: VanLee_26
300: Colossa_26

Pham 347030


22
48
83
104
122
144
203
266
301: Gaia_27
38
61
80
137
216
302: Jace_24
53
74
93
120
290
303: TPA2_47

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 347030 Report

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

Pham number 347030 has 933 members, 67 are drafts.

Phages represented in each track:
• Track 1 : Crispicous1_34
• Track 2 : Norz_37, Lamina13_35, Parliament_34
• Track 3 : Tasp14_36
• Track 4 : Museum_37, Bob3_34, Dulcie_34, Petp2012_37, BigMau_37, Burton_36, HermioneGrange_35, PattyP_37, Gandalf20_36, Pari_36, Jerm2_36, Rohr_36
• Track 5 : Scowl_35
• Track 6 : Pippin_37, Dynamix_36, McGuire_36, Ciao_35, Ichabod_36, Fajezeel_37, U2_35, Big3_35, PascalRango_36, Greg_37, Mkhuseli_36, MrGordo_35, Manatee_36, Michley_35, PinkPlastic_34, Bircsak_35, Gompeii16_35, DrFeelGood_34, GMonster_34, Switzer_36, BeesKnees_36
• Track 7 : TheloniousMonk_37
• Track 8 : Violet_34, DirtDevil_37, RidgeCB_35, Bones_35, BaconJack_38, GrecoEtereo_37, Noxious_38, Eyeball_35, Forsytheast_35, Dussy_36, Corvo_36, LunarLander_36, Tripl3t_36, Papez_37, KikiBouba_38, MetalQZJ_35, Jasper_36, Kenmech_38, ILeeKay_37, MaryBeth_35, Bruns_34, Euphoria_35, Cueylyss_35, Abbyshoes_37, Aldrich_37, Watermelon_37, Puppet_35, SwissCheese_37, Hope4ever_35, Moose_35, CatBus_37, Graduation_37, Beatrix_35
• Track 9 : Rufus_36
• Track 10 : DreamCatcher_38, KSSJEB_35, Seabiscuit_37, Lopton_36, Squee_36
• Track 11 : Lockley_36
• Track 12 : Dreamboat_36, PherrisBueller_36
• Track 13 : Chanagan_34
• Track 14 : Whitspit_36
• Track 15 : Kanely_36, GroundGoblin_37, Altman_37
• Track 16 : Killigrew_33
• Track 17 : Zeeculate_35, Bxb1_33, Alvin_36, Blue_35
• Track 18 : Bexan_33, StrongArm_34
• Track 19 : Nhonho_35
• Track 20 : JuliaChild_37
• Track 21 : Atkinbua_37
• Track 22 : Peterson_38
• Track 23 : Fenn_36, Naira_36
• Track 24 : Licorice_37
• Track 25 : Briton15_37
• Track 26 : Mryolo_33
• Track 27 : Ruotula_35
• Track 28 : Payneful_35

• Track 29 : Hermia_38
• Track 30 : Marsha_35
• Track 31 : Buttons_37
• Track 32 : Smeagol_37
• Track 33 : Jorgensen_35
• Track 34 : DustyMartin_6, RhynO_5, Rowdy_6, Shapes_6
• Track 35 : Rebeuca_6, Kristoff_6
• Track 36 : Eaglepride_6
• Track 37 : Chupacabra_5, Goose_5
• Track 38 : WalterMcMickey_5, Twister_5
• Track 39 : OKCentral2016_5
• Track 40 : Edison31_5
• Track 41 : Topanga_5
• Track 42 : Wolpertinger_7, Sham4_8, Et2Brutus_7, Ebony_8, Saskia_8, Lucivia_8, Insomnia_8, TinyTimmy_8, Kimba_8, Petersenfast_8, Mabel_8, Orange_8, Jabith_8
• Track 43 : MaCh_8, Flaverint_8, Aneem_8, Bowtie_8, Munch_8, Joselito_8, Gilberta_8, Timothy_8, Bachome_8
• Track 44 : Fibonacci_8, Hutc2_8, Mulciber_8, Bud_8, Salz_8, Snape_8
• Track 45 : Steamy_8
• Track 46 : DarthPhader_8
• Track 47 : Phlei_5
• Track 48 : Jeeves_32
• Track 49 : Sunhee_32
• Track 50 : Epsocamisio_8, JSwag_8, Boohoo_8, Nebulosus_8, LastResort_8, Anaysia_8, ReMo_8
• Track 51 : Waits_8, Ravana_8, MinecraftSteve_9, ShayRa_9, DekHockey33_8, Soups_8, KatherineG_8, Rosalind_8, Warrior24_8, Switzerland_8, Oofda_8, Battleship_9
• Track 52 : Anon_8
• Track 53 : Remus_8, Strosahl_8
• Track 54 : Elle_8
• Track 55 : EagleEye_8
• Track 56 : PainterBoy_8, Lucyedi_8
• Track 57 : 40AC_9
• Track 58 : MyraDee_5
• Track 59 : Kimona_29
• Track 60 : Jsquared_31, MajorMajor_31, Bradman_31, Quokka_30, Serenity_31
• Track 61 : NicoleTera_8
• Track 62 : SwirlSquare_33
• Track 63 : Lokk_9, Rachaly_9
• Track 64 : Superchunk_31
• Track 65 : AnnaL29_8
• Track 66 : Odin_31
• Track 67 : Loser_8
• Track 68 : C3_30, AN9_35, AN3_32, VA6_32, ANI8_35
• Track 69 : Changeling_8
• Track 70 : Journey13_30
• Track 71 : Ph8s_33
• Track 72 : Koduck_33
• Track 73 : Pomar16_35, Duplo_35, D29_32, Tomathan_35, DBQu4n_35, Travvers_35, Kerberos_35, D32_35, StarStuff_35
• Track 74 : Jaan_8, Phaded_8
• Track 75 : GaugeLDP_8

• Track 76 : Colin_8, WeiHuaDA_9
• Track 77 : Miko_9
• Track 78 : XianYue_32
• Track 79 : ArcherNM_8
• Track 80 : Kalpine_8
• Track 81 : Acolyte_32
• Track 82 : ForesterFrank_8
• Track 83 : Heffalump_9
• Track 84 : Adzzy_33
• Track 85 : LionsBait_8, HippoHollow_8
• Track 86 : Landor_8, Bactobuster_8
• Track 87 : VC3_35
• Track 88 : Che12_34
• Track 89 : Pukovnik_8
• Track 90 : Tristan_8
• Track 91 : BobSwaget_9
• Track 92 : Malec_33
• Track 93 : Caraxes_31
• Track 94 : Prudy_8
• Track 95 : BabyBack_8
• Track 96 : EZMoney23_8
• Track 97 : TipsytheTRex_31
• Track 98 : RedRock_8
• Track 99 : Trixie_8
• Track 100 : Naji_35
• Track 101 : IronMan_8
• Track 102 : NothingSpecial_7
• Track 103 : BiancaTri92_8, Leogania_8
• Track 104 : MissWhite_32
• Track 105 : L5_32
• Track 106 : Anthony_5
• Track 107 : FatCactus_5
• Track 108 : Kinmap_32
• Track 109 : Chargerpower_33
• Track 110 : Giroux_5, Clammy_5, Bugatti_5, Pistachio_5, BlueBird_5, Idleandcovert_4, SaturnRing_4
• Track 111 : Grif_5, Phoxy_5, Soshari_7, Spike509_5, Vix_5, Grum1_5, Daishi_5, LarryKay_5, TinyPebbles_5, Misomonster_7, KADY_6, Bxz2_5, HashRod_6, BuzzBuzz_4, Methuselah_5, AgronaGT15_5, Rummer_5
• Track 112 : SoilDragon_5, Jobu08_5
• Track 113 : Todacoro_5, Popcicle_5, Veracruz_4, Texage_4, QuinnKiro_4, Pocahontas_5, ResDef_5, Hookmount_5, Panamaxus_5, Noella_5, Caviar_5, Norbert_4, EtoileNova_4, Lambert1_5
• Track 114 : Rockstar_5, MK4_5, JF2_5, Isca_5, B1_04, JF4_5
• Track 115 : Montavir_4, JenCasNa_5, Cullens_5, PotatoSplit_6, MoneyMay_5, Fernando_5, LBerry_5, Bigflo_5, Phoebe_5, Colbster_5, Marie_5, Beauxregard13_5, Taurus_5, Penny1_5, EpicPhail_5, P28Green_5, JHC117_5, Croquant_6, Sabinator_5, LugYA_7, Hercules11_5, Gwennie_5
• Track 116 : Snickers_5, Dieselweasel_5, Tiffany_5, Sabia_5, Aglet_5, Stagni_5, Mainiac_5, MadMarie_5, BreSam8_5, GtownJaz_5, SoYo_5, Wooldri_7
• Track 117 : BabyRay_5
• Track 118 : Chiqui_4, BabyJohn_4
• Track 119 : Goose1D_5, Goose1X_5, Fred313_5, Shep_5

• Track 120 : Kalnoky_6, PurpleHaze_5, Manu_6, Pawn_5, Kalb97_6, Gemma_5, Groupthink_6, HaveUMetTed_6, OlanP_5, Marius_6, Calvinny_5, ACFishhook_5
• Track 121 : Marchesa_5, DropBear_5, Heathen_5, HelDan_5, Zarafa_5, Kachowdy_5
• Track 122 : AugsMagnumOpus_7, Microwolf_5, Lowa_5, PGHhamlin_7, MarQuardt_5, DaHudson_5, Watson_5, Malinsilva_7, Lilith_5, Pembroke_5, Farber_5
• Track 123 : Puppy_5
• Track 124 : Reba_6, JeppNRM_6, Phranny_6
• Track 125 : GingkoMaracino_5, Ollie_5, Anubis_7
• Track 126 : StepMih_5
• Track 127 : Louie6_5
• Track 128 : TNguyen7_5, Roimos_5
• Track 129 : ClownCar_5
• Track 130 : Scout_5
• Track 131 : Zetzy_5
• Track 132 : MuchMore_7
• Track 133 : Cat_4
• Track 134 : Phantastic_5
• Track 135 : Heliosoles_5
• Track 136 : MA5_5
• Track 137 : PhishRPhriends_5
• Track 138 : Margo_5
• Track 139 : LittleGuy_5, Phontbonne_5, Nyxis_5
• Track 140 : KFPoly_5, HamSlice_4, Kampy_5, Lorenzo_5, TroyPia_5, Ohfah_5, Sultana_5, SteMason_5, Clarenza_5, CentreCat_5, Ruin_5, Kratark_5, Florean_5, Eagle_4, Connomayer_5, Maverick_5, Holli_5, Mazhar510_5, Phacado_5, Eros_5, Albee_5, Bombshell_5, BellusTerra_5, Annyong_5, Phelipe_5, Peaches_5, ICleared_5, Taquarus_5, Avle17_5, MeeZee_5, Cocoaberry_5, Commander_5, JetBlade_5, TygerBlood_5, Buckaroo_4, Dhanush_5, Chaph_5, Gadost_5, NorthStar_5, Blackmoor_5, Baby16_5, Wilbur_5, Kingmustik0402_5, Sabertooth_5, Mayonnaise_5, Pipcraft_5, Iceman_5, Polymorphads_5, Medusa_5, Palestino_5, Melvin_5, Citius_5, LeoAvram_5, YoSam321_5, Sparxx_5, Caelakin_5, Kyee_5, TinaFeyge_5, Koan_5, Bartimeaus_5, LappelDuVide_5, Roosevelt_5, Funston_5, Druantia_5, KekoraPapaka_4, Wizard007_5, Bruiser_5, PeterPeter_5, SenorClean_5, Junimo_4, Maxo_5, Scamp_5, Lunsford_5, Houdini22_5, Jaykayelowell_5, Nemo27_5, RockieBear_5, Lemur_5, Noelle_5, Romney_5, NotAPhaseMom_5, Shaka_5, Eris_5, Morrow_5, Flux_5, Skadoosh_5, Eurydice_5, Thanksgivukkah_5, BubbleTrouble_5, Millski_5, OKaNui_5, Burger_4, Eapen_5, Wander_5
• Track 141 : Huxley_5
• Track 142 : Cintron_5, Pumbaa_5, Iracema64_5, Kremtemulon_5, Phighter1804_5, LochMonster_5
• Track 143 : Wile_5, Perplexer_5, PetiteSangsue_5, Cici_5, Katalie136_5, Morpher26_5, Badger_5, Xena_5, Datway_5, Achebe_5, Backyardigan_5, AbbysRanger_5, Bumblebee11_5
• Track 144 : Nebs_5, TiroTheta9_5, Rocksand_5, Northrop_5, Broseidon_5, Skipitt_5, Abdiel_5
• Track 145 : LittleB_5
• Track 146 : Stasia_5
• Track 147 : Obama12_5, SheldonCooper_5, BangNhom_4, Rosa24_4, LHTSCC_5, ChampagnePapi_5, Tinybot_4, Cerulean_5
• Track 148 : Koreni_5
• Track 149 : Ulysses_5

• Track 150 : Relief_5
• Track 151 : Shygu2_5, Happiness_5
• Track 152 : AvatarAhPeg_5, Stink_5, Miramae_5
• Track 153 : DirtyDunning_5, Mundrea_5
• Track 154 : Alberto7_5
• Track 155 : Spino_5
• Track 156 : Cindaradix_5
• Track 157 : Camperdownii_5
• Track 158 : JoongJeon_5
• Track 159 : Arturo_4
• Track 160 : Deano_5
• Track 161 : Milcery_5, Tarynearal_4, Cuco_5, Coog_5, Bonamassa_5, Midas2_5, Twigg_5, HuhtaEnerson15_5, George_4, Prinashe11_5, Micasa_5, Swirley_5, LittleCherry_5
• Track 162 : Lev2_5, Tiger_5, PickleBack_5, Conspiracy_5, ForGetIt_5, Archetta_5
• Track 163 : Aragog_5, AgentM_5, Zolita_4, Jovo_5, Phlorence_5
• Track 164 : Jabiru_5, Airmid_5, Benedict_5, ElTiger69_5, PetterN_5, Chadwick_5, Scorpia_5
• Track 165 : Discoknowium_5, Bluefalcon_4
• Track 166 : Florence1_5, Florence4_6, UnionJack_5
• Track 167 : SydNat_5
• Track 168 : MarysWell_4, Dublin_4
• Track 169 : Theia_4
• Track 170 : Ghoulboy_5
• Track 171 : VohminGhazi_8, ToneTone_7, Dorothea_8, DaVinci_8, CloudWang3_8, Garak_8, Helmet_8, Artemis2UCLA_8, EricB_8, Chartreuse_8, SuperCallie99_8, Jeffabunny_8, BABullseye_8, JewelBug_8, Cookiedough_8, Pmask_8, Lilbunny_8, McFly_8, SuperAwesome_8, BennyP_8, Koko_8, Gruunaga_8, Tucker_8, GreedyLawyer_8, Kipper29_8, Gladiator_8, Jordennis_8, Temprado_8, WunderPhul_8, Roksolana_8, Zaka_8, Hexamo_8, Yokurt_8, Blue7_8, SmellyB_8, DelvinSonDorr_7, Kazan_8, Newrala_8, Wiks_8, BlessJoy_8, Imbriano_8, Candra_8, Indra_8, Polyphemus_8, Neeharika16_8
• Track 172 : Hoot_8
• Track 173 : Zulu_8, Rifter_8, Hammer_8
• Track 174 : Priamo_8, Blinn1_8
• Track 175 : Isiphiwo_8
• Track 176 : Expelliarmus_4, Phillis_5, Groundhog_4, Stephig9_5, Roary_5
• Track 177 : Dixon_5, Smeadley_5, Astro_5, Caitlin_5
• Track 178 : Danforth_4, Saintus_5
• Track 179 : NearlyHeadless_5
• Track 180 : Darrell_8
• Track 181 : Maminiaina_8, BogosyJay_8, Alma_8
• Track 182 : RyeScarlet_8, ExplosioNervosa_8, Ugenie5_6, Hanray_8, Scherzo_8, EmyBug_8, Jiawan_8, Pioneer_8, Beemo_8, Holex_8, Onglai_7, Phonnegut_8, Fayely_8
• Track 183 : Priya_8, Conquerage_8, Eidsmoe_8
• Track 184 : Klodlith_32, DreamTeam1_32
• Track 185 : LoneWolf_8
• Track 186 : CogOmlette_30, Bellris_31, Rahalelujah_31, Minispark_30, WorldCup_30
• Track 187 : Phaeder_8, HortumSL17_8, Tubs_8, Aliter_8, Myxus_8, EdogawaKiddo_8, Catalina_8, Lilleskat_8, PackMan_8, Sachima_8
• Track 188 : SheaKeira_32

• Track 189 : Yecey3_33
• Track 190 : MegTheThird_32, Celestialunch_31
• Track 191 : Toaka_31
• Track 192 : Charm_32
• Track 193 : Elephantoon_8
• Track 194 : Qobbit_8
• Track 195 : Ayanochan_8
• Track 196 : Phayeta_34
• Track 197 : Myrna_134
• Track 198 : ScoobyDoobyDoo_130
• Track 199 : Greely_137
• Track 200 : Phabba_139
• Track 201 : Turuncu_49
• Track 202 : Marietta_47
• Track 203 : NadineRae_45
• Track 204 : Polyyuki_24, Braxoaddie_24, Maselop_24, CoffeeBean_24
• Track 205 : Apiary_24
• Track 206 : GTE2_24
• Track 207 : AndPeggy_27, BillDoor_30, Yarn_27
• Track 208 : CaramelLatte_28, CanesSauce_28, ChocoMunchkin_28
• Track 209 : Amok_27
• Track 210 : AikoCarson_27, Emalyn_27
• Track 211 : SteamedHams_30
• Track 212 : Banquo_3
• Track 213 : TinaLin_3
• Track 214 : Jeanie_17, McGonagall_17
• Track 215 : Dexdert_38
• Track 216 : Artorias_26, Avazak_26, FortCran_26
• Track 217 : ChickyNuggy_27, JulesRay_26, Football_27, Bugg_27, Dancer_26, Captrips_26, NoPickles_26, Tairn4Wing_28
• Track 218 : Petito_27
• Track 219 : SweetCrkHerbs_28, Perkunas_28, Talon44_27
• Track 220 : Trufflozitus_26
• Track 221 : SpeedDemon_430
• Track 222 : DatBoi_42
• Track 223 : GMA6_18
• Track 224 : FelixTres_40, AnarQue_39
• Track 225 : Coldpizza_40
• Track 226 : NHagos_37
• Track 227 : MossRose_39
• Track 228 : Yeshua_39, Wooper_39
• Track 229 : Evaa_37
• Track 230 : MakoManhole_39, Blackpen_39, CloverMinnie_39
• Track 231 : TraderJ_39
• Track 232 : BobRoss2024_36
• Track 233 : CaiB_39
• Track 234 : AksarBAT_37
• Track 235 : Syleon_33, Sephiroth_33
• Track 236 : Kudefre_32
• Track 237 : Octobien14_34
• Track 238 : Sadboi_34
• Track 239 : Aleemily_25, ObLaDi_26, Cafasso_26, ModicumRichard_26

• Track 240 : Drago_25, Enby_25, Daenerys_24, Piper2020_26, BlueCrab_24, PHappiness_24, Chuckly_24, Scottish_25, Lorde_25, Filuzino_24, TootsiePop_25, JoeyJr_24, Mova_25, DaddyRickover_24, Llij_24, Awesomesauce_25, Rockne_24, Pacc40_24, PMC_24, UncleRicky_27, Misha28_25, KingMidas_25, Maravista_24
• Track 241 : ByChance_24, DosHalletts_25, Yorick_24, Nivrat_24, ShowerHandel_24, Burwell21_24, LilMoolah_24, NormanBulbieJr_24, Martik_24
• Track 242 : Karhdo_24, Aloeri_26, Ramsey_25, Polka14_25, Doomslug_26, Nitzel_25, DocMcStuffins_26, DLane_24, Leozinho_25, Phatniss_25, Doug_25, Dorothy_24, ChickenDinner_26
• Track 243 : BobaPhett_24, Mattes_24, Jarcob_24, James_24, Gorge_24
• Track 244 : Chevrolet_24
• Track 245 : Cabrinians_24, FreddyB_24, Priscilla_24, OlympiaSaint_24, Spoonbill_24
• Track 246 : Emma_24
• Track 247 : Ruby_24, MisterCuddles_24, Geralt_24, Empress_25, Sassafras_24, Deb65_24, Inventum_24, OldBen_24, Girr_24
• Track 248 : Whouxphf_24
• Track 249 : Phasih_25, SiSi_24, GigiOuiOui_24, Veteran_24, Mantra_24, DirtMcgirt_25, GUmbie_24
• Track 250 : Medindi_24
• Track 251 : Cornucopia_25
• Track 252 : OwlsT2W_26, Donkeykong_24, Leperchaun_24, Eradicator_24, Violac_25
• Track 253 : Galactic_24, Batiatus_24
• Track 254 : Fancypants_24
• Track 255 : Modragons_24, Seabastian_24, Jinglebell_23, Oksu_25, OfUltron_24, Llama_24
• Track 256 : Rita_24, Bubbles123_25
• Track 257 : Marker_25
• Track 258 : SimranZ1_25
• Track 259 : Fastidio_24
• Track 260 : Nimbo_24
• Track 261 : Ardmore_24
• Track 262 : Lizziana_24
• Track 263 : Zerg_24, RockyHorror_25
• Track 264 : Topiatin_26, WillSterrel_25, IrishSherpFalk_25
• Track 265 : TDanisky_24, Sparkdehlily_24, DRBy19_24, Saal_24, Philus_24, SwagPigglett_24, Nebkiss_28
• Track 266 : Eish_24
• Track 267 : DoRead_24
• Track 268 : Blexus_24
• Track 269 : LunaBlu_25, Mwanjiwa_24
• Track 270 : Grimmer_25
• Track 271 : Moonbeam_25
• Track 272 : Hamulus_24
• Track 273 : DotProduct_24
• Track 274 : Kimberlium_26, Jant_24, QuickMath_25, MulchExplorer_26
• Track 275 : RedBird_24, LittleE_45, Vivum_24
• Track 276 : Poenanya_24, Doomphist_24
• Track 277 : PhesterPhotato_24
• Track 278 : Lucia_25
• Track 279 : Alexphander_26
• Track 280 : DillTech15_24

• Track 281 : DaWorst_26
• Track 282 : Quico_25, Florinda_24, Girafales_25
• Track 283 : Boomer_25
• Track 284 : Polo2Bam_26, Enzomatic_26, SeaLumen_25
• Track 285 : Mutaforma13_24
• Track 286 : ShiLan_24, Zizzle_24
• Track 287 : Aubs_24
• Track 288 : Krakatau_25
• Track 289 : Harley_24, Ibhubesi_24
• Track 290 : Royals2015_24
• Track 291 : Mahavrat_24
• Track 292 : Plumbus_25
• Track 293 : RitaG_24
• Track 294 : Hades_24
• Track 295 : Juniper1_24
• Track 296 : Gandalph_24
• Track 297 : Duke13_42, Wanda_45
• Track 298 : Optimus_43, BAKA_42
• Track 299 : VanLee_26
• Track 300 : Colossa_26
• Track 301 : Gaia_27
• Track 302 : Jace_24
• Track 303 : TPA2_47

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

The start number called the most often in the published annotations is 31, it was called in 421 of the 866 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• 40AC_9, ACFishhook_5, AbbysRanger_5, Abdiel_5, Achebe_5, Aglet_5, AgronaGT15_5, Albee_5, Alberto7_5, Aliter_8, Alma_8, Aneem_8, AnnaL29_8, Annyong_5, Anthony_5, Anubis_7, ArcherNM_8, Arturo_4, Astro_5, AugsMagnumOpus_7, AvatarAhPeg_5, Avle17_5, Ayanochan_8, B1_04, Baby16_5, BabyBack_8, BabyJohn_4, BabyRay_5, Bachome_8, Backyardigan_5, Bactobuster_8, Badger_5, BangNhom_4, Bartimeaus_5, Beauxregard13_5, Beemo_8, Bellris_31, BellusTerra_5, BiancaTri92_8, Bigflo_5, Blackmoor_5, BlueBird_5, Bluefalcon_4, BobSwaget_9, BogosyJay_8, Bombshell_5, Bonamassa_5, Bowtie_8, BreSam8_5, Broseidon_5, Bruiser_5, BubbleTrouble_5, Buckaroo_4, Bud_8, Bugatti_5, Bumblebee11_5, Burger_4, BuzzBuzz_4, Bxz2_5, Caelakin_5, Caitlin_5, Calvinny_5, Camperdownii_5, CanesSauce_28, CaramelLatte_28, Cat_4, Catalina_8, Caviar_5, Celestialunch_31, CentreCat_5, Cerulean_5, ChampagnePapi_5, Changeling_8, Chaph_5, Chargerpower_33, Charm_32, Chiqui_4, ChocoMunchkin_28, Chupacabra_5, Cici_5, Cindaradix_5, Cintron_5, Citius_5, Clammy_5, Clarenza_5, ClownCar_5, Cocoaberry_5, CogOmlette_30, Colbster_5, Colin_8, Commander_5, Connomayer_5, Conquerage_8, Coog_5, Croquant_6, Cuco_5, Cullens_5, DaHudson_5, Daishi_5, Danforth_4, Darrell_8, Datway_5, Deano_5, Dhanush_5, Dieselweasel_5, DirtyDunning_5, Discoknowium_5, Dixon_5, DreamTeam1_32, DropBear_5, Druantia_5, Dublin_4, DustyMartin_6, EZMoney23_8, Eagle_4, Eaglepride_6,

Eapen_5, Ebony_8, Edison31_5, EdogawaKiddo_8, Eidsmoe_8, Elephantoon_8, EmyBug_8, EpicPhail_5, Eris_5, Eros_5, Et2Brutus_7, EtoileNova_4, Eurydice_5, Expelliarmus_4, ExplosioNervosa_8, Farber_5, Fayely_8, Fernando_5, Fibonacci_8, Flaverint_8, Florean_5, Flux_5, ForesterFrank_8, Fred313_5, Funston_5, Gadost_5, GaugeLDP_8, Gemma_5, George_4, Ghoulboy_5, Gilberta_8, GingkoMaracino_5, Giroux_5, Goose1D_5, Goose1X_5, Goose_5, Grif_5, Groundhog_4, Groupthink_6, Grum1_5, GtownJaz_5, Gwennie_5, HamSlice_4, Hanray_8, Happiness_5, HashRod_6, HaveUMetTed_6, Heathen_5, Heffalump_9, HelDan_5, Heliosoles_5, Hercules11_5, HippoHollow_8, Holex_8, Holli_5, Hookmount_5, HortumSL17_8, Houdini22_5, HuhtaEnerson15_5, Hutc2_8, Huxley_5, ICleared_5, Iceman_5, Idleandcovert_4, Insomnia_8, Iracema64_5, IronMan_8, Isca_5, JF2_5, JF4_5, JHC117_5, Jaan_8, Jabith_8, Jaykayelowell_5, Jeeves_32, JenCasNa_5, JeppNRM_6, JetBlade_5, Jiawan_8, Jobu08_5, JoongJeon_5, Joselito_8, Junimo_4, KADY_6, KFPoly_5, Kachowdy_5, Kalb97_6, Kalnoky_6, Kalpine_8, Kampy_5, Katalie136_5, KekoraPapaka_4, Kimba_8, Kingmustik0402_5, Kinmap_32, Klodlith_32, Koan_5, Koreni_5, Kratark_5, Kremtemulon_5, Kristoff_6, Kyee_5, LBerry_5, LHTSCC_5, Lambert1_5, Landor_8, LappelDuVide_5, LarryKay_5, Lemur_5, LeoAvram_5, Leogania_8, Lilith_5, Lilleskat_8, LionsBait_8, LittleB_5, LittleCherry_5, LittleGuy_5, LochMonster_5, Lokk_9, LoneWolf_8, Lorenzo_5, Loser_8, Louie6_5, Lowa_5, Lucivia_8, LugYA_7, Lunsford_5, MA5_5, MK4_5, MaCh_8, Mabel_8, MadMarie_5, Mainiac_5, Malec_33, Malinsilva_7, Maminiaina_8, Manu_6, MarQuardt_5, Marchesa_5, Margo_5, Marie_5, Marius_6, MarysWell_4, Maverick_5, Maxo_5, Mayonnaise_5, Mazhar510_5, Medusa_5, MeeZee_5, MegTheThird_32, Melvin_5, Methuselah_5, Micasa_5, Microwolf_5, Midas2_5, Miko_9, Milcery_5, Millski_5, Minispark_30, Miramae_5, Misomonster_7, MissWhite_32, MoneyMay_5, Montavir_4, Morpher26_5, Morrow_5, MuchMore_7, Mulciber_8, Munch_8, Mundrea_5, Myxus_8, NearlyHeadless_5, Nebs_5, Nemo27_5, NicoleTera_8, Noella_5, Noelle_5, Norbert_4, NorthStar_5, Northrop_5, NotAPhaseMom_5, NothingSpecial_7, Nyxis_5, OKCentral2016_5, OKaNui_5, Obama12_5, Ohfah_5, OlanP_5, Ollie_5, Onglai_7, Orange_8, P28Green_5, PGHhamlin_7, PackMan_8, Palestino_5, Panamaxus_5, Pawn_5, Peaches_5, Pembroke_5, Penny1_5, Perplexer_5, PeterPeter_5, Petersenfast_8, PetiteSangsue_5, Phacado_5, Phaded_8, Phaeder_8, Phantastic_5, Phayeta_34, Phelipe_5, Phighter1804_5, Phillis_5, PhishRPhriends_5, Phoebe_5, Phonnegut_8, Phontbonne_5, Phoxy_5, Phranny_6, Pioneer_8, Pipcraft_5, Pistachio_5, Pocahontas_5, Polymorphads_5, Popcicle_5, PotatoSplit_6, Prinashe11_5, Priya_8, Prudy_8, Pukovnik_8, Pumbaa_5, Puppy_5, PurpleHaze_5, Qobbit_8, QuinnKiro_4, Rachaly_9, Rahalelujah_31, Reba_6, Rebeuca_6, RedRock_8, Relief_5, ResDef_5, RhynO_5, Roary_5, RockieBear_5, Rocksand_5, Rockstar_5, Roimos_5, Romney_5, Roosevelt_5, Rosa24_4, Rowdy_6, Ruin_5, Rummer_5, RyeScarlet_8, Sabertooth_5, Sabia_5, Sabinator_5, Sachima_8, Saintus_5, Salz_8, Saskia_8, SaturnRing_4, Scamp_5, Scherzo_8, Scout_5, SenorClean_5, Shaka_5, Sham4_8, Shapes_6, SheaKeira_32, SheldonCooper_5, Shep_5, Shygu2_5, Skadoosh_5, Skipitt_5, Smeadley_5, Snape_8, Snickers_5, SoYo_5, SoilDragon_5, Soshari_7, Sparxx_5, Spike509_5, Spino_5, Stagni_5, Stasia_5, SteMason_5, SteamedHams_30, Steamy_8, Stephig9_5, Stink_5, Sultana_5, Sunhee_32, Superchunk_31, Swirley_5, TNguyen7_5, Taquarus_5, Tarynearal_4, Taurus_5, Texage_4, Thanksgivukkah_5, Theia_4, Tiffany_5, Timothy_8, TinaFeyge_5, TinyPebbles_5, TinyTimmy_8, Tinybot_4, TiroTheta9_5, Toaka_31, Todacoro_5, Topanga_5, Tristan_8, Trixie_8, TroyPia_5, Tubs_8, Twigg_5, Twister_5, TygerBlood_5, Ugenie5_6, Ulysses_5, Veracruz_4, Vix_5, WalterMcMickey_5, Wander_5, Watson_5, WeiHuaDA_9, Wilbur_5, Wile_5, Wizard007_5, Wolpertinger_7, Wooldri_7, WorldCup_30, Xena_5, YoSam321_5, Zarafa_5, Zetzy_5,

Genes that have the "Most Annotated" start but do not call it:
• AgentM_5, Aragog_5, Caraxes_31, Jovo_5, Koduck_33, Phlorence_5, StepMih_5, SydNat_5, TipsytheTRex_31, Zolita_4,

Genes that do not have the "Most Annotated" start:
• AN3_32, AN9_35, ANI8_35, Abbyshoes_37, Acolyte_32, Adzzy_33, AikoCarson_27, Airmid_5, AksarBAT_37, Aldrich_37, Aleemily_25, Alexphander_26, Aloeri_26, Altman_37, Alvin_36, Amok_27, AnarQue_39, Anaysia_8, AndPeggy_27, Anon_8, Apiary_24, Archetta_5, Ardmore_24, Artemis2UCLA_8, Artorias_26, Atkinbua_37, Aubs_24, Avazak_26, Awesomesauce_25, BABullseye_8, BAKA_42, BaconJack_38, Banquo_3, Batiatus_24, Battleship_9, Beatrix_35, BeesKnees_36, Benedict_5, BennyP_8, Bexan_33, Big3_35, BigMau_37, BillDoor_30, Bircsak_35, Blackpen_39, BlessJoy_8, Blexus_24, Blinn1_8, Blue7_8, BlueCrab_24, Blue_35, Bob3_34, BobRoss2024_36, BobaPhett_24, Bones_35, Boohoo_8, Boomer_25, Bradman_31, Braxoaddie_24, Briton15_37, Bruns_34, Bubbles123_25, Bugg_27, Burton_36, Burwell21_24, Buttons_37, Bxb1_33, ByChance_24, C3_30, Cabrinians_24, Cafasso_26, CaiB_39, Candra_8, Captrips_26, CatBus_37, Chadwick_5, Chanagan_34, Chartreuse_8, Che12_34, Chevrolet_24, ChickenDinner_26, ChickyNuggy_27, Chuckly_24, Ciao_35, CloudWang3_8, CloverMinnie_39, CoffeeBean_24, Coldpizza_40, Colossa_26, Conspiracy_5, Cookiedough_8, Cornucopia_25, Corvo_36, Crispicous1_34, Cueylyss_35, D29_32, D32_35, DBQu4n_35, DLane_24, DRBy19_24, DaVinci_8, DaWorst_26, DaddyRickover_24, Daenerys_24, Dancer_26, DarthPhader_8, DatBoi_42, Deb65_24, DekHockey33_8, DelvinSonDorr_7, Dexdert_38, DillTech15_24, DirtDevil_37, DirtMcgirt_25, DoRead_24, DocMcStuffins_26, Donkeykong_24, Doomphist_24, Doomslug_26, Dorothea_8, Dorothy_24, DosHalletts_25, DotProduct_24, Doug_25, DrFeelGood_34, Drago_25, DreamCatcher_38, Dreamboat_36, Duke13_42, Dulcie_34, Duplo_35, Dussy_36, Dynamix_36, EagleEye_8, Eish_24, ElTiger69_5, Elle_8, Emalyn_27, Emma_24, Empress_25, Enby_25, Enzomatic_26, Epsocamisio_8, Eradicator_24, EricB_8, Euphoria_35, Evaa_37, Eyeball_35, Fajezeel_37, Fancypants_24, Fastidio_24, FatCactus_5, FelixTres_40, Fenn_36, Filuzino_24, Florence1_5, Florence4_6, Florinda_24, Football_27, ForGetIt_5, Forsytheast_35, FortCran_26, FreddyB_24, GMA6_18, GMonster_34, GTE2_24, GUmbie_24, Gaia_27, Galactic_24, Gandalf20_36, Gandalph_24, Garak_8, Geralt_24, GigiOuiOui_24, Girafales_25, Girr_24, Gladiator_8, Gompeii16_35, Gorge_24, Graduation_37, GrecoEtereo_37, GreedyLawyer_8, Greely_137, Greg_37, Grimmer_25, GroundGoblin_37, Gruunaga_8, Hades_24, Hammer_8, Hamulus_24, Harley_24, Helmet_8, Hermia_38, HermioneGrange_35, Hexamo_8, Hoot_8, Hope4ever_35, ILeeKay_37, Ibhubesi_24, Ichabod_36, Imbriano_8, Indra_8, Inventum_24, IrishSherpFalk_25, Isiphiwo_8, JSwag_8, Jabiru_5, Jace_24, James_24, Jant_24, Jarcob_24, Jasper_36, Jeanie_17, Jeffabunny_8, Jerm2_36, JewelBug_8, Jinglebell_23, JoeyJr_24, Jordennis_8, Jorgensen_35, Journey13_30, Jsquared_31, JulesRay_26, JuliaChild_37, Juniper1_24, KSSJEB_35, Kanely_36, Karhdo_24, KatherineG_8, Kazan_8, Kenmech_38, Kerberos_35, KikiBouba_38, Killigrew_33, Kimberlium_26, Kimona_29, KingMidas_25, Kipper29_8, Koko_8, Krakatau_25, Kudefre_32, L5_32, Lamina13_35, LastResort_8, Leozinho_25, Leperchaun_24, Lev2_5, Licorice_37, LilMoolah_24, Lilbunny_8, LittleE_45, Lizziana_24, Llama_24, Llij_24, Lockley_36, Lopton_36, Lorde_25, Lucia_25, Lucyedi_8, LunaBlu_25, LunarLander_36, Mahavrat_24, MajorMajor_31, MakoManhole_39, Manatee_36, Mantra_24, Maravista_24, Marietta_47, Marker_25, Marsha_35, Martik_24, MaryBeth_35, Maselop_24, Mattes_24, McFly_8, McGonagall_17, McGuire_36, Medindi_24,

MetalQZJ_35, Michley_35, MinecraftSteve_9, Misha28_25, MisterCuddles_24, Mkhuseli_36, ModicumRichard_26, Modragons_24, Moonbeam_25, Moose_35, MossRose_39, Mova_25, MrGordo_35, Mryolo_33, MulchExplorer_26, Museum_37, Mutaforma13_24, Mwanjiwa_24, MyraDee_5, Myrna_134, NHagos_37, NadineRae_45, Naira_36, Naji_35, Nebkiss_28, Nebulosus_8, Neeharika16_8, Newrala_8, Nhonho_35, Nimbo_24, Nitzel_25, Nivrat_24, NoPickles_26, NormanBulbieJr_24, Norz_37, Noxious_38, ObLaDi_26, Octobien14_34, Odin_31, OfUltron_24, Oksu_25, OldBen_24, OlympiaSaint_24, Oofda_8, Optimus_43, OwlsT2W_26, PHappiness_24, PMC_24, Pacc40_24, PainterBoy_8, Papez_37, Pari_36, Parliament_34, PascalRango_36, PattyP_37, Payneful_35, Perkunas_28, Peterson_38, Petito_27, Petp2012_37, PetterN_5, Ph8s_33, Phabba_139, Phasih_25, Phatniss_25, PherrisBueller_36, PhesterPhotato_24, Philus_24, Phlei_5, PickleBack_5, PinkPlastic_34, Piper2020_26, Pippin_37, Plumbus_25, Pmask_8, Poenanya_24, Polka14_25, Polo2Bam_26, Polyphemus_8, Polyyuki_24, Pomar16_35, Priamo_8, Priscilla_24, Puppet_35, QuickMath_25, Quico_25, Quokka_30, Ramsey_25, Ravana_8, ReMo_8, RedBird_24, Remus_8, RidgeCB_35, Rifter_8, RitaG_24, Rita_24, Rockne_24, RockyHorror_25, Rohr_36, Roksolana_8, Rosalind_8, Royals2015_24, Ruby_24, Rufus_36, Ruotula_35, Saal_24, Sadboi_34, Sassafras_24, ScoobyDoobyDoo_130, Scorpia_5, Scottish_25, Scowl_35, SeaLumen_25, Seabastian_24, Seabiscuit_37, Sephiroth_33, Serenity_31, ShayRa_9, ShiLan_24, ShowerHandel_24, SiSi_24, SimranZ1_25, Smeagol_37, SmellyB_8, Soups_8, Sparkdehlily_24, SpeedDemon_430, Spoonbill_24, Squee_36, StarStuff_35, StrongArm_34, Strosahl_8, SuperAwesome_8, SuperCallie99_8, SwagPigglett_24, SweetCrkHerbs_28, SwirlSquare_33, SwissCheese_37, Switzer_36, Switzerland_8, Syleon_33, TDanisky_24, TPA2_47, Tairn4Wing_28, Talon44_27, Tasp14_36, Temprado_8, TheloniousMonk_37, Tiger_5, TinaLin_3, Tomathan_35, ToneTone_7, TootsiePop_25, Topiatin_26, TraderJ_39, Travvers_35, Tripl3t_36, Trufflozitus_26, Tucker_8, Turuncu_49, U2_35, UncleRicky_27, UnionJack_5, VA6_32, VC3_35, VanLee_26, Veteran_24, Violac_25, Violet_34, Vivum_24, VohminGhazi_8, Waits_8, Wanda_45, Warrior24_8, Watermelon_37, Whitspit_36, Whouxphf_24, Wiks_8, WillSterrel_25, Wooper_39, WunderPhul_8, XianYue_32, Yarn_27, Yecey3_33, Yeshua_39, Yokurt_8, Yorick_24, Zaka_8, Zeeculate_35, Zerg_24, Zizzle_24, Zulu_8,

Summary by start number:

Start 21:
• Found in 1 of 933 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 866
• Called 100.0% of time when present
• Phage (with cluster) where this start called: NadineRae_45 (CR4),

Start 22:
• Found in 127 of 933 (13.6%) of genes in pham
• No Manual Annotations of this start.
• Called 0.8% of time when present
• Phage (with cluster) where this start called: Ardmore_24 (F1),

Start 23:
• Found in 54 of 933 (5.8%) of genes in pham
• Manual Annotations of this start: 50 of 866
• Called 96.3% of time when present

• Phage (with cluster) where this start called: Artemis2UCLA_8 (A6), BABullseye_8 (A6), BennyP_8 (A6), BlessJoy_8 (A6), Blinn1_8 (A6), Blue7_8 (A6), Candra_8 (A6), Chartreuse_8 (A6), CloudWang3_8 (A6), Cookiedough_8 (A6), DaVinci_8 (A6), DelvinSonDorr_7 (A6), Dorothea_8 (A6), EricB_8 (A6), Garak_8 (A6), Gladiator_8 (A6), GreedyLawyer_8 (A6), Gruunaga_8 (A6), Hammer_8 (A6), Helmet_8 (A6), Hexamo_8 (A6), Hoot_8 (A6), Imbriano_8 (A6), Indra_8 (A6), Isiphiwo_8 (A6), Jeffabunny_8 (A6), JewelBug_8 (A6), Jordennis_8 (A6), Kazan_8 (A6), Kipper29_8 (A6), Koko_8 (A6), Lilbunny_8 (A6), McFly_8 (A6), Neeharika16_8 (A6), Newrala_8 (A6), Pmask_8 (A6), Polyphemus_8 (A6), Priamo_8 (A6), Rifter_8 (A6), Roksolana_8 (A6), SmellyB_8 (A6), SuperAwesome_8 (A6), SuperCallie99_8 (A6), Temprado_8 (A6), ToneTone_7 (A6), Tucker_8 (A6), VohminGhazi_8 (A6), Wiks_8 (A6), WunderPhul_8 (A6), Yokurt_8 (A6), Zaka_8 (A6), Zulu_8 (A6),

Start 24:
• Found in 1 of 933 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 866
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Coldpizza_40 (DR),

Start 25:
• Found in 3 of 933 (0.3%) of genes in pham
• Manual Annotations of this start: 3 of 866
• Called 100.0% of time when present
• Phage (with cluster) where this start called: EagleEye_8 (A16), Lucyedi_8 (A16), PainterBoy_8 (A16),

Start 26:
• Found in 12 of 933 (1.3%) of genes in pham
• Manual Annotations of this start: 12 of 866
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aleemily_25 (DZ), Cafasso_26 (DZ), Colossa_26 (KA), DatBoi_42 (DL), Kudefre_32 (DU1), ModicumRichard_26 (DZ), ObLaDi_26 (DZ), Octobien14_34 (DU1), Sephiroth_33 (DU1), SpeedDemon_430 (DL), Syleon_33 (DU1), VanLee_26 (KA),

Start 29:
• Found in 8 of 933 (0.9%) of genes in pham
• Manual Annotations of this start: 8 of 866
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AN3_32 (A2), AN9_35 (A2), ANI8_35 (A2), C3_30 (A2), Journey13_30 (A2), MyraDee_5 (A18), VA6_32 (A2), VC3_35 (A2),

Start 30:
• Found in 1 of 933 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 866
• Called 100.0% of time when present
• Phage (with cluster) where this start called: FatCactus_5 (A20),

Start 31:
• Found in 463 of 933 (49.6%) of genes in pham
• Manual Annotations of this start: 421 of 866
• Called 97.8% of time when present

• Phage (with cluster) where this start called: 40AC_9 (A17), ACFishhook_5 (A3), AbbysRanger_5 (A4), Abdiel_5 (A4), Achebe_5 (A4), Aglet_5 (A3), AgronaGT15_5 (A3), Albee_5 (A4), Alberto7_5 (A4), Aliter_8 (A9), Alma_8 (A9), Aneem_8 (A11), AnnaL29_8 (A2), Annyong_5 (A4), Anthony_5 (A20), Anubis_7 (A3), ArcherNM_8 (A2), Arturo_4 (A4), Astro_5 (A8), AugsMagnumOpus_7 (A3), AvatarAhPeg_5 (A4), Avle17_5 (A4), Ayanochan_8 (A9), B1_04 (A3), Baby16_5 (A4), BabyBack_8 (A2), BabyJohn_4 (A3), BabyRay_5 (A3), Bachome_8 (A11), Backyardigan_5 (A4), Bactobuster_8 (A2), Badger_5 (A4), BangNhom_4 (A4), Bartimeaus_5 (A4), Beauxregard13_5 (A3), Beemo_8 (A9), Bellris_31 (A9), BellusTerra_5 (A4), BiancaTri92_8 (A2), Bigflo_5 (A3), Blackmoor_5 (A4), BlueBird_5 (A3), Bluefalcon_4 (A5), BobSwaget_9 (A2), BogosyJay_8 (A9), Bombshell_5 (A4), Bonamassa_5 (A5), Bowtie_8 (A11), BreSam8_5 (A3), Broseidon_5 (A4), Bruiser_5 (A4), BubbleTrouble_5 (A4), Buckaroo_4 (A4), Bud_8 (A11), Bugatti_5 (A3), Bumblebee11_5 (A4), Burger_4 (A4), BuzzBuzz_4 (A3), Bxz2_5 (A3), Caelakin_5 (A4), Caitlin_5 (A8), Calvinny_5 (A3), Camperdownii_5 (A4), CanesSauce_28 (CT), CaramelLatte_28 (CT), Cat_4 (A3), Catalina_8 (A9), Caviar_5 (A3), Celestialunch_31 (A9), CentreCat_5 (A4), Cerulean_5 (A4), ChampagnePapi_5 (A4), Changeling_8 (A2), Chaph_5 (A4), Chargerpower_33 (A22), Charm_32 (A9), Chiqui_4 (A3), ChocoMunchkin_28 (CT), Chupacabra_5 (A10), Cici_5 (A4), Cindaradix_5 (A4), Cintron_5 (A4), Citius_5 (A4), Clammy_5 (A3), Clarenza_5 (A4), ClownCar_5 (A3), Cocoaberry_5 (A4), CogOmlette_30 (A9), Colbster_5 (A3), Colin_8 (A2), Commander_5 (A4), Connomayer_5 (A4), Conquerage_8 (A9), Coog_5 (A5), Croquant_6 (A3), Cuco_5 (A5), Cullens_5 (A3), DaHudson_5 (A3), Daishi_5 (A3), Danforth_4 (A8), Darrell_8 (A9), Datway_5 (A4), Deano_5 (A4), Dhanush_5 (A4), Dieselweasel_5 (A3), DirtyDunning_5 (A4), Discoknowium_5 (A5), Dixon_5 (A8), DreamTeam1_32 (A9), DropBear_5 (A3), Druantia_5 (A4), Dublin_4 (A5), DustyMartin_6 (A10), EZMoney23_8 (A2), Eagle_4 (A4), Eaglepride_6 (A10), Eapen_5 (A4), Ebony_8 (A11), Edison31_5 (A10), EdogawaKiddo_8 (A9), Eidsmoe_8 (A9), Elephantoon_8 (A9), EmyBug_8 (A9), EpicPhail_5 (A3), Eris_5 (A4), Eros_5 (A4), Et2Brutus_7 (A11), EtoileNova_4 (A3), Eurydice_5 (A4), Expelliarmus_4 (A8), ExplosioNervosa_8 (A9), Farber_5 (A3), Fayely_8 (A9), Fernando_5 (A3), Fibonacci_8 (A11), Flaverint_8 (A11), Florean_5 (A4), Flux_5 (A4), ForesterFrank_8 (A2), Fred313_5 (A3), Funston_5 (A4), Gadost_5 (A4), GaugeLDP_8 (A2), Gemma_5 (A3), George_4 (A5), Ghoulboy_5 (A5), Gilberta_8 (A11), GingkoMaracino_5 (A3), Giroux_5 (A3), Goose1D_5 (A3), Goose1X_5 (A3), Goose_5 (A10), Grif_5 (A3), Groundhog_4 (A8), Groupthink_6 (A3), Grum1_5 (A3), GtownJaz_5 (A3), Gwennie_5 (A3), HamSlice_4 (A4), Hanray_8 (A9), Happiness_5 (A4), HashRod_6 (A3), HaveUMetTed_6 (A3), Heathen_5 (A3), Heffalump_9 (A2), HelDan_5 (A3), Heliosoles_5 (A3), Hercules11_5 (A3), HippoHollow_8 (A2), Holex_8 (A9), Holli_5 (A4), Hookmount_5 (A3), HortumSL17_8 (A9), Houdini22_5 (A4), HuhtaEnerson15_5 (A5), Hutc2_8 (A11), Huxley_5 (A4), ICleared_5 (A4), Iceman_5 (A4), Idleandcovert_4 (A3), Insomnia_8 (A11), Iracema64_5 (A4), IronMan_8 (A2), Isca_5 (A3), JF2_5 (A3), JF4_5 (A3), JHC117_5 (A3), Jaan_8 (A2), Jabith_8 (A11), Jaykayelowell_5 (A4), Jeeves_32 (A14), JenCasNa_5 (A3), JeppNRM_6 (A3), JetBlade_5 (A4), Jiawan_8 (A9), Jobu08_5 (A3), JoongJeon_5 (A4), Joselito_8 (A11), Junimo_4 (A4), KADY_6 (A3), KFPoly_5 (A4), Kachowdy_5 (A3), Kalb97_6 (A3), Kalnoky_6 (A3), Kalpine_8 (A2), Kampy_5 (A4), Katalie136_5 (A4), KekoraPapaka_4 (A4), Kimba_8 (A11), Kingmustik0402_5 (A4), Kinmap_32 (A21), Klodlith_32 (A9), Koan_5 (A4), Koreni_5 (A4), Kratark_5 (A4), Kremtemulon_5 (A4), Kristoff_6 (A10), Kyee_5 (A4), LBerry_5 (A3), LHTSCC_5 (A4), Lambert1_5 (A3), Landor_8 (A2), LappelDuVide_5 (A4), LarryKay_5 (A3), Lemur_5 (A4), LeoAvram_5 (A4), Leogania_8 (A2), Lilith_5 (A3), Lilleskat_8 (A9), LionsBait_8 (A2), LittleB_5 (A4), LittleCherry_5 (A5), LittleGuy_5 (A4), LochMonster_5 (A4), Lokk_9 (A2), LoneWolf_8

(A9), Lorenzo_5 (A4), Loser_8 (A2), Louie6_5 (A3), Lowa_5 (A3), Lucivia_8 (A11), LugYA_7 (A3), Lunsford_5 (A4), MA5_5 (A3), MK4_5 (A3), MaCh_8 (A11), Mabel_8 (A11), MadMarie_5 (A3), Mainiac_5 (A3), Malec_33 (A2), Malinsilva_7 (A3), Maminiaina_8 (A9), Manu_6 (A3), MarQuardt_5 (A3), Marchesa_5 (A3), Margo_5 (A3), Marie_5 (A3), Marius_6 (A3), MarysWell_4 (A5), Maverick_5 (A4), Maxo_5 (A4), Mayonnaise_5 (A4), Mazhar510_5 (A4), Medusa_5 (A4), MeeZee_5 (A4), MegTheThird_32 (A9), Melvin_5 (A4), Methuselah_5 (A3), Micasa_5 (A5), Microwolf_5 (A3), Midas2_5 (A5), Miko_9 (A2), Milcery_5 (A5), Millski_5 (A4), Minispark_30 (A9), Miramae_5 (A4), Misomonster_7 (A3), MissWhite_32 (A2), MoneyMay_5 (A3), Montavir_4 (A3), Morpher26_5 (A4), Morrow_5 (A4), MuchMore_7 (A3), Mulciber_8 (A11), Munch_8 (A11), Mundrea_5 (A4), Myxus_8 (A9), NearlyHeadless_5 (A8), Nebs_5 (A4), Nemo27_5 (A4), NicoleTera_8 (A2), Noella_5 (A3), Noelle_5 (A4), Norbert_4 (A3), NorthStar_5 (A4), Northrop_5 (A4), NotAPhaseMom_5 (A4), NothingSpecial_7 (A2), Nyxis_5 (A4), OKCentral2016_5 (A10), OKaNui_5 (A4), Obama12_5 (A4), Ohfah_5 (A4), OlanP_5 (A3), Ollie_5 (A3), Onglai_7 (A9), Orange_8 (A11), P28Green_5 (A3), PGHhamlin_7 (A3), PackMan_8 (A9), Palestino_5 (A4), Panamaxus_5 (A3), Pawn_5 (A3), Peaches_5 (A4), Pembroke_5 (A3), Penny1_5 (A3), Perplexer_5 (A4), PeterPeter_5 (A4), Petersenfast_8 (A11), PetiteSangsue_5 (A4), Phacado_5 (A4), Phaded_8 (A2), Phaeder_8 (A9), Phantastic_5 (A3), Phayeta_34 (B3), Phelipe_5 (A4), Phighter1804_5 (A4), Phillis_5 (A8), PhishRPhriends_5 (A3), Phoebe_5 (A3), Phonnegut_8 (A9), Phontbonne_5 (A4), Phoxy_5 (A3), Phranny_6 (A3), Pioneer_8 (A9), Pipcraft_5 (A4), Pistachio_5 (A3), Pocahontas_5 (A3), Polymorphads_5 (A4), Popcicle_5 (A3), PotatoSplit_6 (A3), Prinashe11_5 (A5), Priya_8 (A9), Prudy_8 (A2), Pukovnik_8 (A2), Pumbaa_5 (A4), Puppy_5 (A3), PurpleHaze_5 (A3), Qobbit_8 (A9), QuinnKiro_4 (A3), Rachaly_9 (A2), Rahalelujah_31 (A9), Reba_6 (A3), Rebeuca_6 (A10), RedRock_8 (A2), Relief_5 (A4), ResDef_5 (A3), RhynO_5 (A10), Roary_5 (A8), RockieBear_5 (A4), Rocksand_5 (A4), Rockstar_5 (A3), Roimos_5 (A3), Romney_5 (A4), Roosevelt_5 (A4), Rosa24_4 (A4), Rowdy_6 (A10), Ruin_5 (A4), Rummer_5 (A3), RyeScarlet_8 (A9), Sabertooth_5 (A4), Sabia_5 (A3), Sabinator_5 (A3), Sachima_8 (A9), Saintus_5 (A8), Salz_8 (A11), Saskia_8 (A11), SaturnRing_4 (A3), Scamp_5 (A4), Scherzo_8 (A9), Scout_5 (A3), SenorClean_5 (A4), Shaka_5 (A4), Sham4_8 (A11), Shapes_6 (A10), SheaKeira_32 (A9), SheldonCooper_5 (A4), Shep_5 (A3), Shygu2_5 (A4), Skadoosh_5 (A4), Skipitt_5 (A4), Smeadley_5 (A8), Snape_8 (A11), Snickers_5 (A3), SoYo_5 (A3), SoilDragon_5 (A3), Soshari_7 (A3), Sparxx_5 (A4), Spike509_5 (A3), Spino_5 (A4), Stagni_5 (A3), Stasia_5 (A4), SteMason_5 (A4), SteamedHams_30 (CT), Steamy_8 (A12), Stephig9_5 (A8), Stink_5 (A4), Sultana_5 (A4), Sunhee_32 (A14), Superchunk_31 (A2), Swirley_5 (A5), TNguyen7_5 (A3), Taquarus_5 (A4), Tarynearal_4 (A5), Taurus_5 (A3), Texage_4 (A3), Thanksgivukkah_5 (A4), Theia_4 (A5), Tiffany_5 (A3), Timothy_8 (A11), TinaFeyge_5 (A4), TinyPebbles_5 (A3), TinyTimmy_8 (A11), Tinybot_4 (A4), TiroTheta9_5 (A4), Toaka_31 (A9), Todacoro_5 (A3), Topanga_5 (A10), Tristan_8 (A2), Trixie_8 (A2), TroyPia_5 (A4), Tubs_8 (A9), Twigg_5 (A5), Twister_5 (A10), TygerBlood_5 (A4), Ugenie5_6 (A9), Ulysses_5 (A4), Veracruz_4 (A3), Vix_5 (A3), WalterMcMickey_5 (A10), Wander_5 (A4), Watson_5 (A3), WeiHuaDA_9 (A2), Wilbur_5 (A4), Wile_5 (A4), Wizard007_5 (A4), Wolpertinger_7 (A11), Wooldri_7 (A3), WorldCup_30 (A9), Xena_5 (A4), YoSam321_5 (A4), Zarafa_5 (A3), Zetzy_5 (A3),

Start 33:
• Found in 20 of 933 (2.1%) of genes in pham
• Manual Annotations of this start: 18 of 866
• Called 95.0% of time when present

• Phage (with cluster) where this start called: Acolyte_32 (A2), Adzzy_33 (A2), Caraxes_31 (A2), Che12_34 (A2), D29_32 (A2), D32_35 (A2), DBQu4n_35 (A2), Duplo_35 (A2), Kerberos_35 (A2), Koduck_33 (A2), L5_32 (A2), Naji_35 (A2), Ph8s_33 (A2), Pomar16_35 (A2), StarStuff_35 (A2), SwirlSquare_33 (A2), TipsytheTRex_31 (A2), Tomathan_35 (A2), Travvers_35 (A2),

Start 34:
• Found in 5 of 933 (0.5%) of genes in pham
• Manual Annotations of this start: 5 of 866
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Apiary_24 (CR6), Braxoaddie_24 (CR6), CoffeeBean_24 (CR6), Maselop_24 (CR6), Polyyuki_24 (CR6),

Start 36:
• Found in 1 of 933 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 866
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Yecey3_33 (A9),

Start 37:
• Found in 3 of 933 (0.3%) of genes in pham
• No Manual Annotations of this start.
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Phlei_5 (A13),

Start 39:
• Found in 14 of 933 (1.5%) of genes in pham
• Manual Annotations of this start: 13 of 866
• Called 92.9% of time when present
• Phage (with cluster) where this start called: Anaysia_8 (A15), Banquo_3 (CU1), Boohoo_8 (A15), Epsocamisio_8 (A15), Evaa_37 (DR), JSwag_8 (A15), Jace_24 (singleton), LastResort_8 (A15), Nebulosus_8 (A15), ReMo_8 (A15), Remus_8 (A15), Strosahl_8 (A15), TinaLin_3 (CU1),

Start 41:
• Found in 14 of 933 (1.5%) of genes in pham
• Manual Annotations of this start: 6 of 866
• Called 42.9% of time when present
• Phage (with cluster) where this start called: AgentM_5 (A5), Aragog_5 (A5), Jovo_5 (A5), Phlorence_5 (A5), SydNat_5 (A5), Zolita_4 (A5),

Start 47:
• Found in 11 of 933 (1.2%) of genes in pham
• Manual Annotations of this start: 8 of 866
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AnarQue_39 (DR), Blackpen_39 (DR), BobRoss2024_36 (DR), CaiB_39 (DR), CloverMinnie_39 (DR), FelixTres_40 (DR), MakoManhole_39 (DR), MossRose_39 (DR), TraderJ_39 (DR), Wooper_39 (DR), Yeshua_39 (DR),

Start 48:
• Found in 182 of 933 (19.5%) of genes in pham
• Manual Annotations of this start: 174 of 866

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alexphander_26 (F1), Aloeri_26 (F1), Altman_37 (A1), Alvin_36 (A1), Atkinbua_37 (A1), Awesomesauce_25 (F1), BeesKnees_36 (A1), Big3_35 (A1), BigMau_37 (A1), Bircsak_35 (A1), Blexus_24 (F1), BlueCrab_24 (F1), Blue_35 (A1), Bob3_34 (A1), BobaPhett_24 (F1), Briton15_37 (A1), Burton_36 (A1), Burwell21_24 (F1), Bxb1_33 (A1), ByChance_24 (F1), Cabrinians_24 (F1), Chanagan_34 (A1), ChickenDinner_26 (F1), Chuckly_24 (F1), Ciao_35 (A1), Cornucopia_25 (F1), Crispicous1_34 (A1), DLane_24 (F1), DRBy19_24 (F1), DaWorst_26 (F1), DaddyRickover_24 (F1), Daenerys_24 (F1), DarthPhader_8 (A12), Deb65_24 (F1), DirtMcgirt_25 (F1), DoRead_24 (F1), DocMcStuffins_26 (F1), Donkeykong_24 (F1), Doomslug_26 (F), Dorothy_24 (F1), DosHalletts_25 (F1), Doug_25 (F1), DrFeelGood_34 (A1), Drago_25 (F1), DreamCatcher_38 (A1), Dulcie_34 (A1), Dynamix_36 (A1), Eish_24 (F1), Emma_24 (F1), Empress_25 (F1), Enby_25 (F1), Enzomatic_26 (F1), Eradicator_24 (F1), Fajezeel_37 (A1), Fancypants_24 (F1), Fastidio_24 (F1), Fenn_36 (A1), Filuzino_24 (F1), Florinda_24 (F1), FreddyB_24 (F1), GMonster_34 (A1), GUmbie_24 (F1), Gaia_27 (X), Gandalf20_36 (A1), Gandalph_24 (F1), Geralt_24 (F1), GigiOuiOui_24 (F1), Girafales_25 (F1), Girr_24 (F1), Gompeii16_35 (A1), Gorge_24 (F1), Greg_37 (A1), Grimmer_25 (F1), GroundGoblin_37 (A1), Hades_24 (F1), HermioneGrange_35 (A1), Ichabod_36 (A1), Inventum_24 (F1), James_24 (F1), Jant_24 (F1), Jarcob_24 (F1), Jerm2_36 (A1), JoeyJr_24 (F1), Jorgensen_35 (A1), KSSJEB_35 (A1), Kanely_36 (A1), Karhdo_24 (F1), Killigrew_33 (A1), Kimberlium_26 (F1), KingMidas_25 (F1), Lamina13_35 (A1), Leozinho_25 (F1), Leperchaun_24 (F1), LilMoolah_24 (F1), Lizziana_24 (F1), Llij_24 (F1), Lopton_36 (A1), Lorde_25 (F1), Lucia_25 (F1), LunaBlu_25 (F1), Manatee_36 (A1), Mantra_24 (F1), Maravista_24 (F1), Marker_25 (F1), Martik_24 (F1), Mattes_24 (F1), McGuire_36 (A1), Medindi_24 (F1), Michley_35 (A1), Misha28_25 (F1), MisterCuddles_24 (F1), Mkhuseli_36 (A1), Moonbeam_25 (F1), Mova_25 (F1), MrGordo_35 (A1), MulchExplorer_26 (F1), Museum_37 (A1), Mutaforma13_24 (F1), Mwanjiwa_24 (F1), Naira_36 (A1), Nebkiss_28 (X), Nhonho_35 (A1), Nitzel_25 (F1), Nivrat_24 (F1), NormanBulbieJr_24 (F1), Norz_37 (A1), OldBen_24 (F1), OlympiaSaint_24 (F1), OwlsT2W_26 (F1), PHappiness_24 (F1), PMC_24 (F1), Pacc40_24 (F1), Pari_36 (A1), Parliament_34 (A1), PascalRango_36 (A1), PattyP_37 (A1), Petp2012_37 (A1), Phasih_25 (F1), Phatniss_25 (F1), Philus_24 (F1), PinkPlastic_34 (A1), Piper2020_26 (F1), Pippin_37 (A1), Plumbus_25 (F1), Polka14_25 (F1), Polo2Bam_26 (F1), Priscilla_24 (F1), QuickMath_25 (F1), Quico_25 (F1), Ramsey_25 (F1), RitaG_24 (F1), Rockne_24 (F1), RockyHorror_25 (F1), Rohr_36 (A1), Royals2015_24 (F1), Ruby_24 (F1), Saal_24 (F1), Sassafras_24 (F1), Scottish_25 (F1), Scowl_35 (A1), SeaLumen_25 (F1), Seabiscuit_37 (A1), ShiLan_24 (F1), ShowerHandel_24 (F1), SiSi_24 (F1), Sparkdehlily_24 (F1), Spoonbill_24 (F1), Squee_36 (A1), SwagPigglett_24 (F1), Switzer_36 (A1), TDanisky_24 (F1), Tasp14_36 (A1), TootsiePop_25 (F1), U2_35 (A1), UncleRicky_27 (F1), Veteran_24 (F1), Violac_25 (F1), Whouxphf_24 (F1), Yorick_24 (F1), Zeeculate_35 (A1), Zerg_24 (F1), Zizzle_24 (F1),

Start 49:
• Found in 3 of 933 (0.3%) of genes in pham
• Manual Annotations of this start: 2 of 866
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AksarBAT_37 (DR), Dexdert_38 (DE3), NHagos_37 (DR),

Start 50:
• Found in 1 of 933 (0.1%) of genes in pham

• Manual Annotations of this start: 1 of 866
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Petito_27 (DJ),

Start 51:
• Found in 82 of 933 (8.8%) of genes in pham
• Manual Annotations of this start: 73 of 866
• Called 98.8% of time when present
• Phage (with cluster) where this start called: Airmid_5 (A5), Anon_8 (A15), Archetta_5 (A5), Artorias_26 (DJ), Aubs_24 (F1), Avazak_26 (DJ), BAKA_42 (J), Batiatus_24 (F1), Battleship_9 (A15), Benedict_5 (A5), Boomer_25 (F1), Bubbles123_25 (F1), Bugg_27 (DJ), Captrips_26 (DJ), Chadwick_5 (A5), Chevrolet_24 (F1), ChickyNuggy_27 (DJ), Conspiracy_5 (A5), Dancer_26 (DJ), DekHockey33_8 (A15), DillTech15_24 (F1), Doomphist_24 (F1), DotProduct_24 (F1), Duke13_42 (J), ElTiger69_5 (A5), Elle_8 (A15), Florence1_5 (A5), Florence4_6 (A5), Football_27 (DJ), ForGetIt_5 (A5), FortCran_26 (DJ), Galactic_24 (F1), Hamulus_24 (F1), Harley_24 (F1), Ibhubesi_24 (F1), IrishSherpFalk_25 (F1), Jabiru_5 (A5), Jinglebell_23 (F1), JulesRay_26 (DJ), Juniper1_24 (F1), KatherineG_8 (A15), Krakatau_25 (F1), Lev2_5 (A5), LittleE_45 (J), Llama_24 (F1), Mahavrat_24 (F1), MinecraftSteve_9 (A15), Modragons_24 (F1), Nimbo_24 (F1), NoPickles_26 (DJ), OfUltron_24 (F1), Oksu_25 (F1), Oofda_8 (A15), Optimus_43 (J), Perkunas_28 (DJ), PetterN_5 (A5), PhesterPhotato_24 (F1), PickleBack_5 (A5), Poenanya_24 (F1), Ravana_8 (A15), RedBird_24 (F1), Rita_24 (F1), Rosalind_8 (A15), Scorpia_5 (A5), Seabastian_24 (F1), ShayRa_9 (A15), SimranZ1_25 (F1), Soups_8 (A15), SweetCrkHerbs_28 (DJ), Switzerland_8 (A15), Tairn4Wing_28 (DJ), Talon44_27 (DJ), Tiger_5 (A5), Topiatin_26 (F1), Trufflozitus_26 (DJ), UnionJack_5 (A5), Vivum_24 (F1), Waits_8 (A15), Wanda_45 (J), Warrior24_8 (A15), WillSterrel_25 (F1),

Start 52:
• Found in 10 of 933 (1.1%) of genes in pham
• Manual Annotations of this start: 9 of 866
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bexan_33 (A1), Buttons_37 (A1), JuliaChild_37 (A1), Lockley_36 (A1), Marsha_35 (A1), Payneful_35 (A1), Rufus_36 (A1), Ruotula_35 (A1), StrongArm_34 (A1), Whitspit_36 (A1),

Start 53:
• Found in 13 of 933 (1.4%) of genes in pham
• Manual Annotations of this start: 6 of 866
• Called 61.5% of time when present
• Phage (with cluster) where this start called: AikoCarson_27 (CT), Amok_27 (CT), AndPeggy_27 (CT), BillDoor_30 (CT), Emalyn_27 (CT), GTE2_24 (CT), TPA2_47 (singleton), Yarn_27 (CT),

Start 58:
• Found in 1 of 933 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 866
• Called 100.0% of time when present
• Phage (with cluster) where this start called: TheloniousMonk_37 (A1),

Start 60:
• Found in 23 of 933 (2.5%) of genes in pham

• Manual Annotations of this start: 2 of 866
• Called 13.0% of time when present
• Phage (with cluster) where this start called: GMA6_18 (DQ), Jeanie_17 (CW1), McGonagall_17 (CW1),

Start 69:
• Found in 7 of 933 (0.8%) of genes in pham
• Manual Annotations of this start: 4 of 866
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bradman_31 (A2), Jsquared_31 (A2), MajorMajor_31 (A2), Odin_31 (A2), Quokka_30 (A2), Serenity_31 (A2), Turuncu_49 (CR1),

Start 73:
• Found in 41 of 933 (4.4%) of genes in pham
• Manual Annotations of this start: 37 of 866
• Called 95.1% of time when present
• Phage (with cluster) where this start called: Abbyshoes_37 (A1), Aldrich_37 (A1), BaconJack_38 (A1), Beatrix_35 (A1), Bones_35 (A1), Bruns_34 (A1), CatBus_37 (A1), Corvo_36 (A1), Cueylyss_35 (A1), DirtDevil_37 (A1), Dreamboat_36 (A1), Dussy_36 (A1), Euphoria_35 (A1), Eyeball_35 (A1), Forsytheast_35 (A1), Graduation_37 (A1), GrecoEtereo_37 (A1), Hermia_38 (A1), Hope4ever_35 (A1), ILeeKay_37 (A1), Jasper_36 (A1), Kenmech_38 (A1), KikiBouba_38 (A1), Licorice_37 (A1), LunarLander_36 (A1), MaryBeth_35 (A1), MetalQZJ_35 (A1), Moose_35 (A1), Noxious_38 (A1), Papez_37 (A1), Peterson_38 (A1), PherrisBueller_36 (A1), Puppet_35 (A1), RidgeCB_35 (A1), Smeagol_37 (A1), SwissCheese_37 (A1), Tripl3t_36 (A1), Violet_34 (A1), Watermelon_37 (A1),

Start 76:
• Found in 90 of 933 (9.6%) of genes in pham
• Manual Annotations of this start: 1 of 866
• Called 1.1% of time when present
• Phage (with cluster) where this start called: Mryolo_33 (A1),

Start 84:
• Found in 64 of 933 (6.9%) of genes in pham
• Manual Annotations of this start: 2 of 866
• Called 3.1% of time when present
• Phage (with cluster) where this start called: Kimona_29 (A19), ScoobyDoobyDoo_130 (C2),

Start 86:
• Found in 1 of 933 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 866
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Sadboi_34 (DV),

Start 87:
• Found in 2 of 933 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 866
• Called 50.0% of time when present
• Phage (with cluster) where this start called: XianYue_32 (A2),

Start 93:
• Found in 4 of 933 (0.4%) of genes in pham
• Manual Annotations of this start: 2 of 866
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Greely_137 (C2), Myrna_134 (C2), Phabba_139 (C2),

Start 111:
• Found in 136 of 933 (14.6%) of genes in pham
• Manual Annotations of this start: 1 of 866
• Called 0.7% of time when present
• Phage (with cluster) where this start called: Marietta_47 (CR4),

Start 124:
• Found in 31 of 933 (3.3%) of genes in pham
• Manual Annotations of this start: 1 of 866
• Called 3.2% of time when present
• Phage (with cluster) where this start called: StepMih_5 (A3),

Summary by clusters:

There are 43 clusters represented in this pham: singleton, DJ, DL, DZ, DV, DR, DQ, A15, A14, A17, A16, A11, A10, CU1, A12, CW1, F, A19, A18, A1, A3, A2, A5, A4, A6, A9, DU1, A21, J, A22, A8, X, C2, CT, A20, F1, KA, CR1, CR6, A13, CR4, DE3, B3,

Info for manual annotations of cluster A1:
•Start number 48 was manually annotated 58 times for cluster A1.
•Start number 52 was manually annotated 9 times for cluster A1.
•Start number 58 was manually annotated 1 time for cluster A1.
•Start number 73 was manually annotated 37 times for cluster A1.
•Start number 76 was manually annotated 1 time for cluster A1.

Info for manual annotations of cluster A10:
•Start number 31 was manually annotated 11 times for cluster A10.

Info for manual annotations of cluster A11:
•Start number 31 was manually annotated 28 times for cluster A11.

Info for manual annotations of cluster A12:
•Start number 31 was manually annotated 1 time for cluster A12.
•Start number 48 was manually annotated 1 time for cluster A12.

Info for manual annotations of cluster A14:
•Start number 31 was manually annotated 2 times for cluster A14.

Info for manual annotations of cluster A15:
•Start number 39 was manually annotated 9 times for cluster A15.
•Start number 51 was manually annotated 14 times for cluster A15.

Info for manual annotations of cluster A16:
•Start number 25 was manually annotated 3 times for cluster A16.

Info for manual annotations of cluster A18:
•Start number 29 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A19:
•Start number 84 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A2:
•Start number 29 was manually annotated 7 times for cluster A2.
•Start number 31 was manually annotated 35 times for cluster A2.
•Start number 33 was manually annotated 18 times for cluster A2.
•Start number 69 was manually annotated 3 times for cluster A2.
•Start number 87 was manually annotated 1 time for cluster A2.

Info for manual annotations of cluster A20:
•Start number 30 was manually annotated 1 time for cluster A20.
•Start number 31 was manually annotated 1 time for cluster A20.

Info for manual annotations of cluster A21:
•Start number 31 was manually annotated 1 time for cluster A21.

Info for manual annotations of cluster A22:
•Start number 31 was manually annotated 1 time for cluster A22.

Info for manual annotations of cluster A3:
•Start number 31 was manually annotated 123 times for cluster A3.
•Start number 124 was manually annotated 1 time for cluster A3.

Info for manual annotations of cluster A4:
•Start number 31 was manually annotated 144 times for cluster A4.

Info for manual annotations of cluster A5:
•Start number 31 was manually annotated 19 times for cluster A5.
•Start number 41 was manually annotated 6 times for cluster A5.
•Start number 51 was manually annotated 14 times for cluster A5.

Info for manual annotations of cluster A6:
•Start number 23 was manually annotated 50 times for cluster A6.

Info for manual annotations of cluster A8:
•Start number 31 was manually annotated 12 times for cluster A8.

Info for manual annotations of cluster A9:
•Start number 31 was manually annotated 41 times for cluster A9.
•Start number 36 was manually annotated 1 time for cluster A9.

Info for manual annotations of cluster B3:
•Start number 31 was manually annotated 1 time for cluster B3.

Info for manual annotations of cluster C2:
•Start number 84 was manually annotated 1 time for cluster C2.
•Start number 93 was manually annotated 2 times for cluster C2.

Info for manual annotations of cluster CR1:
•Start number 69 was manually annotated 1 time for cluster CR1.

Info for manual annotations of cluster CR4:
•Start number 21 was manually annotated 1 time for cluster CR4.
•Start number 111 was manually annotated 1 time for cluster CR4.

Info for manual annotations of cluster CR6:
•Start number 34 was manually annotated 5 times for cluster CR6.

Info for manual annotations of cluster CT:
•Start number 31 was manually annotated 1 time for cluster CT.
•Start number 53 was manually annotated 6 times for cluster CT.

Info for manual annotations of cluster CU1:
•Start number 39 was manually annotated 2 times for cluster CU1.

Info for manual annotations of cluster CW1:
•Start number 60 was manually annotated 2 times for cluster CW1.

Info for manual annotations of cluster DE3:
•Start number 49 was manually annotated 1 time for cluster DE3.

Info for manual annotations of cluster DJ:
•Start number 50 was manually annotated 1 time for cluster DJ.
•Start number 51 was manually annotated 10 times for cluster DJ.

Info for manual annotations of cluster DL:
•Start number 26 was manually annotated 2 times for cluster DL.

Info for manual annotations of cluster DR:
•Start number 24 was manually annotated 1 time for cluster DR.
•Start number 39 was manually annotated 1 time for cluster DR.
•Start number 47 was manually annotated 8 times for cluster DR.
•Start number 49 was manually annotated 1 time for cluster DR.

Info for manual annotations of cluster DU1:
•Start number 26 was manually annotated 4 times for cluster DU1.

Info for manual annotations of cluster DV:
•Start number 86 was manually annotated 1 time for cluster DV.

Info for manual annotations of cluster DZ:
•Start number 26 was manually annotated 4 times for cluster DZ.

Info for manual annotations of cluster F1:
•Start number 48 was manually annotated 113 times for cluster F1.
•Start number 51 was manually annotated 30 times for cluster F1.

Info for manual annotations of cluster J:
•Start number 51 was manually annotated 5 times for cluster J.

Info for manual annotations of cluster KA:
•Start number 26 was manually annotated 2 times for cluster KA.

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

Gene Information:

Gene: 40AC_9 Start: 5287, Stop: 5973, Start Num: 31
Candidate Starts for 40AC_9:
(27, 5275), (Start: 31 @5287 has 421 MA's), (125, 5428), (156, 5521), (171, 5560), (186, 5611),

Gene: ACFishhook_5 Start: 2969, Stop: 3619, Start Num: 31
Candidate Starts for ACFishhook_5:
(Start: 31 @2969 has 421 MA's), (113, 3077), (142, 3152), (200, 3344),

Gene: AN3_32 Start: 24571, Stop: 25236, Start Num: 29
Candidate Starts for AN3_32:
(Start: 29 @24571 has 8 MA's), (79, 24634), (118, 24694), (123, 24703), (Start: 124 @24706 has 1 MA's), (250, 25084), (285, 25174), (295, 25216),

Gene: AN9_35 Start: 24556, Stop: 25221, Start Num: 29
Candidate Starts for AN9_35:
(Start: 29 @24556 has 8 MA's), (79, 24619), (118, 24679), (123, 24688), (Start: 124 @24691 has 1 MA's), (250, 25069), (285, 25159), (295, 25201),

Gene: ANI8_35 Start: 24556, Stop: 25221, Start Num: 29
Candidate Starts for ANI8_35:
(Start: 29 @24556 has 8 MA's), (79, 24619), (118, 24679), (123, 24688), (Start: 124 @24691 has 1 MA's), (250, 25069), (285, 25159), (295, 25201),

Gene: AbbysRanger_5 Start: 2733, Stop: 3395, Start Num: 31
Candidate Starts for AbbysRanger_5:
(Start: 31 @2733 has 421 MA's), (Start: 111 @2838 has 1 MA's), (220, 3153),

Gene: Abbyshoes_37 Start: 28238, Stop: 29026, Start Num: 73
Candidate Starts for Abbyshoes_37:
(Start: 73 @28238 has 37 MA's), (Start: 76 @28244 has 1 MA's), (100, 28280), (173, 28538), (203, 28643), (213, 28670), (226, 28694), (266, 28871),

Gene: Abdiel_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Abdiel_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (231, 3169), (297, 3367),

Gene: Achebe_5 Start: 2733, Stop: 3395, Start Num: 31
Candidate Starts for Achebe_5:
(Start: 31 @2733 has 421 MA's), (Start: 111 @2838 has 1 MA's), (220, 3153),

Gene: Acolyte_32 Start: 25057, Stop: 25704, Start Num: 33

Candidate Starts for Acolyte_32:
(Start: 33 @25057 has 18 MA's), (140, 25237), (146, 25267), (148, 25273), (180, 25357), (191, 25384), (212, 25471),

Gene: Adzzy_33 Start: 23085, Stop: 23747, Start Num: 33
Candidate Starts for Adzzy_33:
(Start: 33 @23085 has 18 MA's), (Start: 41 @23100 has 6 MA's), (113, 23199), (140, 23268), (182, 23397), (212, 23505), (273, 23631),

Gene: AgentM_5 Start: 3698, Stop: 4345, Start Num: 41
Candidate Starts for AgentM_5:
(Start: 31 @3680 has 421 MA's), (Start: 41 @3698 has 6 MA's), (Start: 84 @3746 has 2 MA's), (99, 3767), (142, 3863),

Gene: Aglet_5 Start: 2899, Stop: 3558, Start Num: 31
Candidate Starts for Aglet_5:
(Start: 31 @2899 has 421 MA's), (Start: 124 @3028 has 1 MA's), (142, 3082), (150, 3115), (176, 3184), (295, 3538),

Gene: AgronaGT15_5 Start: 2540, Stop: 3172, Start Num: 31
Candidate Starts for AgronaGT15_5:
(Start: 31 @2540 has 421 MA's), (142, 2723), (143, 2726), (148, 2753),

Gene: AikoCarson_27 Start: 22132, Stop: 22770, Start Num: 53
Candidate Starts for AikoCarson_27:
(Start: 53 @22132 has 6 MA's), (56, 22141), (83, 22183), (100, 22201), (117, 22237), (121, 22249), (139, 22291), (140, 22297), (176, 22408), (207, 22513), (259, 22627),

Gene: Airmid_5 Start: 3407, Stop: 4048, Start Num: 51
Candidate Starts for Airmid_5:
(Start: 51 @3407 has 73 MA's), (71, 3443), (85, 3464), (106, 3491), (151, 3623), (181, 3704), (189, 3719), (292, 4025),

Gene: AksarBAT_37 Start: 32541, Stop: 33188, Start Num: 49
Candidate Starts for AksarBAT_37:
(Start: 49 @32541 has 2 MA's), (83, 32598), (106, 32628), (108, 32631), (116, 32649), (141, 32715), (188, 32853), (189, 32856), (250, 33033), (296, 33171),

Gene: Albee_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Albee_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Alberto7_5 Start: 2723, Stop: 3394, Start Num: 31
Candidate Starts for Alberto7_5:
(Start: 31 @2723 has 421 MA's), (196, 3083), (300, 3389),

Gene: Aldrich_37 Start: 29363, Stop: 30151, Start Num: 73
Candidate Starts for Aldrich_37:
(Start: 73 @29363 has 37 MA's), (Start: 76 @29369 has 1 MA's), (100, 29405), (173, 29663), (203, 29768), (213, 29795), (226, 29819), (266, 29996),

Gene: Aleemily_25 Start: 23347, Stop: 24057, Start Num: 26
Candidate Starts for Aleemily_25:

(4, 22930), (12, 23185), (Start: 26 @23347 has 12 MA's), (32, 23362), (40, 23377), (159, 23629), (230, 23821),

Gene: Alexphander_26 Start: 24790, Stop: 25614, Start Num: 48
Candidate Starts for Alexphander_26:
(Start: 48 @24790 has 174 MA's), (83, 24838), (104, 24871), (203, 25231),

Gene: Aliter_8 Start: 5167, Stop: 5796, Start Num: 31
Candidate Starts for Aliter_8:
(Start: 31 @5167 has 421 MA's), (64, 5206), (142, 5347), (148, 5377), (155, 5392),

Gene: Alma_8 Start: 5225, Stop: 5875, Start Num: 31
Candidate Starts for Alma_8:
(Start: 31 @5225 has 421 MA's), (141, 5402), (148, 5435), (219, 5639), (251, 5735),

Gene: Aloeri_26 Start: 24858, Stop: 25682, Start Num: 48
Candidate Starts for Aloeri_26:
(22, 24798), (Start: 48 @24858 has 174 MA's), (83, 24906), (104, 24939), (122, 24972), (203, 25299),

Gene: Altman_37 Start: 28857, Stop: 29801, Start Num: 48
Candidate Starts for Altman_37:
(Start: 48 @28857 has 174 MA's), (83, 28893), (Start: 111 @28935 has 1 MA's), (174, 29178), (211, 29304),

Gene: Alvin_36 Start: 28638, Stop: 29438, Start Num: 48
Candidate Starts for Alvin_36:
(Start: 48 @28638 has 174 MA's), (Start: 76 @28674 has 1 MA's), (112, 28716), (144, 28803), (203, 29055), (226, 29106), (266, 29283),

Gene: Amok_27 Start: 22092, Stop: 22730, Start Num: 53
Candidate Starts for Amok_27:
(Start: 53 @22092 has 6 MA's), (66, 22116), (83, 22143), (100, 22161), (117, 22197), (121, 22209), (139, 22251), (140, 22257), (176, 22368), (207, 22473), (259, 22587),

Gene: AnarQue_39 Start: 33943, Stop: 34590, Start Num: 47
Candidate Starts for AnarQue_39:
(Start: 47 @33943 has 8 MA's), (83, 34000), (106, 34030), (108, 34033), (116, 34051), (143, 34123), (176, 34225), (188, 34255), (189, 34258), (230, 34375), (250, 34435), (296, 34573),

Gene: Anaysia_8 Start: 4403, Stop: 5071, Start Num: 39
Candidate Starts for Anaysia_8:
(Start: 39 @4403 has 13 MA's), (159, 4643), (187, 4709), (230, 4835),

Gene: AndPeggy_27 Start: 22538, Stop: 23176, Start Num: 53
Candidate Starts for AndPeggy_27:
(Start: 53 @22538 has 6 MA's), (56, 22547), (83, 22589), (100, 22607), (117, 22643), (140, 22703), (207, 22919), (259, 23033),

Gene: Aneem_8 Start: 5410, Stop: 6072, Start Num: 31
Candidate Starts for Aneem_8:
(Start: 31 @5410 has 421 MA's), (Start: 84 @5476 has 2 MA's), (128, 5551), (168, 5662), (246, 5902),

Gene: AnnaL29_8 Start: 5238, Stop: 5912, Start Num: 31

Candidate Starts for AnnaL29_8:
(Start: 31 @5238 has 421 MA's), (140, 5415), (190, 5559), (199, 5613), (240, 5709),

Gene: Annyong_5 Start: 2723, Stop: 3385, Start Num: 31
Candidate Starts for Annyong_5:
(Start: 31 @2723 has 421 MA's), (Start: 111 @2828 has 1 MA's), (218, 3140), (220, 3143), (297, 3368),

Gene: Anon_8 Start: 4936, Stop: 5598, Start Num: 51
Candidate Starts for Anon_8:
(Start: 51 @4936 has 73 MA's), (91, 4987), (121, 5041), (191, 5242), (206, 5317),

Gene: Anthony_5 Start: 2845, Stop: 3510, Start Num: 31
Candidate Starts for Anthony_5:
(Start: 31 @2845 has 421 MA's), (55, 2875), (113, 2956), (173, 3124), (183, 3154), (246, 3349),

Gene: Anubis_7 Start: 2809, Stop: 3468, Start Num: 31
Candidate Starts for Anubis_7:
(Start: 31 @2809 has 421 MA's), (99, 2896), (Start: 124 @2938 has 1 MA's), (142, 2992), (171, 3076), (176, 3094),

Gene: Apiary_24 Start: 12634, Stop: 13311, Start Num: 34
Candidate Starts for Apiary_24:
(Start: 34 @12634 has 5 MA's), (80, 12712), (104, 12745), (115, 12769), (119, 12778), (135, 12829), (139, 12838), (181, 12964), (215, 13072), (295, 13288),

Gene: Aragog_5 Start: 3728, Stop: 4375, Start Num: 41
Candidate Starts for Aragog_5:
(Start: 31 @3710 has 421 MA's), (Start: 41 @3728 has 6 MA's), (Start: 84 @3776 has 2 MA's), (99, 3797), (142, 3893),

Gene: ArcherNM_8 Start: 5248, Stop: 5922, Start Num: 31
Candidate Starts for ArcherNM_8:
(Start: 31 @5248 has 421 MA's), (190, 5569), (199, 5623), (240, 5719), (272, 5803),

Gene: Archetta_5 Start: 3446, Stop: 4087, Start Num: 51
Candidate Starts for Archetta_5:
(Start: 51 @3446 has 73 MA's), (117, 3554), (139, 3614), (151, 3662), (156, 3668), (171, 3707), (187, 3752), (189, 3758),

Gene: Ardmore_24 Start: 24249, Stop: 25115, Start Num: 22
Candidate Starts for Ardmore_24:
(22, 24249), (Start: 51 @24309 has 73 MA's), (83, 24357), (104, 24390), (122, 24423), (210, 24753), (212, 24759), (266, 24963), (304, 25110),

Gene: Artemis2UCLA_8 Start: 4544, Stop: 5242, Start Num: 23
Candidate Starts for Artemis2UCLA_8:
(Start: 23 @4544 has 50 MA's), (239, 5048), (298, 5234),

Gene: Artorias_26 Start: 18647, Stop: 19297, Start Num: 51
Candidate Starts for Artorias_26:
(Start: 51 @18647 has 73 MA's), (71, 18683), (157, 18869), (203, 19031), (207, 19040), (210, 19049), (253, 19148), (266, 19178),

Gene: Arturo_4 Start: 2722, Stop: 3387, Start Num: 31
Candidate Starts for Arturo_4:
(Start: 31 @2722 has 421 MA's), (171, 2989), (191, 3046), (214, 3133), (245, 3202), (297, 3370),

Gene: Astro_5 Start: 3347, Stop: 4006, Start Num: 31
Candidate Starts for Astro_5:
(Start: 31 @3347 has 421 MA's), (77, 3404), (109, 3446), (217, 3764), (250, 3863),

Gene: Atkinbua_37 Start: 28484, Stop: 29272, Start Num: 48
Candidate Starts for Atkinbua_37:
(Start: 48 @28484 has 174 MA's), (Start: 76 @28520 has 1 MA's), (112, 28562), (144, 28649), (203, 28904), (226, 28955), (299, 29255),

Gene: Aubs_24 Start: 24425, Stop: 25231, Start Num: 51
Candidate Starts for Aubs_24:
(Start: 51 @24425 has 73 MA's), (83, 24473), (131, 24566), (210, 24869), (212, 24875), (266, 25079), (304, 25226),

Gene: AugsMagnumOpus_7 Start: 2890, Stop: 3549, Start Num: 31
Candidate Starts for AugsMagnumOpus_7:
(Start: 31 @2890 has 421 MA's), (142, 3073), (150, 3106), (176, 3175), (295, 3529),

Gene: AvatarAhPeg_5 Start: 2718, Stop: 3383, Start Num: 31
Candidate Starts for AvatarAhPeg_5:
(Start: 31 @2718 has 421 MA's), (94, 2799), (171, 2985), (202, 3111),

Gene: Avazak_26 Start: 18654, Stop: 19304, Start Num: 51
Candidate Starts for Avazak_26:
(Start: 51 @18654 has 73 MA's), (71, 18690), (157, 18876), (203, 19038), (207, 19047), (210, 19056), (253, 19155), (266, 19185),

Gene: Avle17_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Avle17_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Awesomesauce_25 Start: 24131, Stop: 24955, Start Num: 48
Candidate Starts for Awesomesauce_25:
(22, 24071), (Start: 48 @24131 has 174 MA's), (83, 24179), (122, 24245), (203, 24572),

Gene: Ayanochan_8 Start: 5227, Stop: 5898, Start Num: 31
Candidate Starts for Ayanochan_8:
(Start: 31 @5227 has 421 MA's), (148, 5437), (253, 5743), (282, 5821),

Gene: B1_04 Start: 2514, Stop: 3149, Start Num: 31
Candidate Starts for B1_04:
(Start: 31 @2514 has 421 MA's), (142, 2697), (148, 2727), (178, 2805), (191, 2838),

Gene: BABullseye_8 Start: 4661, Stop: 5359, Start Num: 23
Candidate Starts for BABullseye_8:
(Start: 23 @4661 has 50 MA's), (239, 5165), (298, 5351),

Gene: BAKA_42 Start: 36778, Stop: 37584, Start Num: 51
Candidate Starts for BAKA_42:

(22, 36718), (Start: 51 @36778 has 73 MA's), (83, 36826), (104, 36859), (122, 36892), (130, 36916), (131, 36919), (210, 37222), (212, 37228), (266, 37432), (304, 37579),

Gene: Baby16_5 Start: 2731, Stop: 3393, Start Num: 31
Candidate Starts for Baby16_5:
(Start: 31 @2731 has 421 MA's), (Start: 111 @2836 has 1 MA's), (218, 3148), (220, 3151), (297, 3376),

Gene: BabyBack_8 Start: 5112, Stop: 5783, Start Num: 31
Candidate Starts for BabyBack_8:
(Start: 31 @5112 has 421 MA's), (94, 5193), (140, 5289), (191, 5436),

Gene: BabyJohn_4 Start: 2767, Stop: 3399, Start Num: 31
Candidate Starts for BabyJohn_4:
(Start: 31 @2767 has 421 MA's), (142, 2950), (148, 2980),

Gene: BabyRay_5 Start: 2781, Stop: 3440, Start Num: 31
Candidate Starts for BabyRay_5:
(Start: 31 @2781 has 421 MA's), (43, 2802), (99, 2868), (140, 2958), (148, 2994), (195, 3138), (235, 3240), (283, 3378),

Gene: Bachome_8 Start: 5407, Stop: 6069, Start Num: 31
Candidate Starts for Bachome_8:
(Start: 31 @5407 has 421 MA's), (Start: 84 @5473 has 2 MA's), (128, 5548), (168, 5659), (246, 5899),

Gene: Backyardigan_5 Start: 2733, Stop: 3395, Start Num: 31
Candidate Starts for Backyardigan_5:
(Start: 31 @2733 has 421 MA's), (Start: 111 @2838 has 1 MA's), (220, 3153),

Gene: BaconJack_38 Start: 28558, Stop: 29346, Start Num: 73
Candidate Starts for BaconJack_38:
(Start: 73 @28558 has 37 MA's), (Start: 76 @28564 has 1 MA's), (100, 28600), (173, 28858), (203, 28963), (213, 28990), (226, 29014), (266, 29191),

Gene: Bactobuster_8 Start: 5068, Stop: 5730, Start Num: 31
Candidate Starts for Bactobuster_8:
(Start: 31 @5068 has 421 MA's), (94, 5149), (Start: 111 @5173 has 1 MA's), (171, 5329), (202, 5455), (220, 5482),

Gene: Badger_5 Start: 2734, Stop: 3396, Start Num: 31
Candidate Starts for Badger_5:
(Start: 31 @2734 has 421 MA's), (Start: 111 @2839 has 1 MA's), (220, 3154),

Gene: BangNhom_4 Start: 2722, Stop: 3387, Start Num: 31
Candidate Starts for BangNhom_4:
(Start: 31 @2722 has 421 MA's), (140, 2899), (171, 2989), (202, 3115),

Gene: Banquo_3 Start: 665, Stop: 1360, Start Num: 39
Candidate Starts for Banquo_3:
(11, 434), (15, 509), (16, 515), (20, 590), (Start: 39 @665 has 13 MA's), (45, 677), (63, 704), (92, 755), (121, 812), (135, 857), (139, 866), (178, 986), (184, 998), (190, 1010), (251, 1193),

Gene: Bartimeaus_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Bartimeaus_5:

(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Batiatus_24 Start: 24316, Stop: 25122, Start Num: 51
Candidate Starts for Batiatus_24:
(22, 24256), (Start: 51 @24316 has 73 MA's), (83, 24364), (131, 24457), (210, 24760), (212, 24766), (266, 24970), (304, 25117),

Gene: Battleship_9 Start: 4550, Stop: 5224, Start Num: 51
Candidate Starts for Battleship_9:
(Start: 51 @4550 has 73 MA's), (106, 4631), (121, 4667), (170, 4814), (189, 4862),

Gene: Beatrix_35 Start: 29473, Stop: 30261, Start Num: 73
Candidate Starts for Beatrix_35:
(Start: 73 @29473 has 37 MA's), (Start: 76 @29479 has 1 MA's), (100, 29515), (173, 29773), (203, 29878), (213, 29905), (226, 29929), (266, 30106),

Gene: Beauxregard13_5 Start: 2629, Stop: 3264, Start Num: 31
Candidate Starts for Beauxregard13_5:
(Start: 31 @2629 has 421 MA's), (148, 2842),

Gene: Beemo_8 Start: 5228, Stop: 5899, Start Num: 31
Candidate Starts for Beemo_8:
(Start: 31 @5228 has 421 MA's), (140, 5402), (148, 5438), (220, 5651), (282, 5822),

Gene: BeesKnees_36 Start: 28085, Stop: 28894, Start Num: 48
Candidate Starts for BeesKnees_36:
(Start: 48 @28085 has 174 MA's), (Start: 76 @28121 has 1 MA's), (112, 28163), (144, 28250), (203, 28505), (226, 28556),

Gene: Bellris_31 Start: 23978, Stop: 24619, Start Num: 31
Candidate Starts for Bellris_31:
(18, 23906), (Start: 31 @23978 has 421 MA's), (Start: 124 @24113 has 1 MA's), (140, 24161), (212, 24392), (295, 24599),

Gene: BellusTerra_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for BellusTerra_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Benedict_5 Start: 3409, Stop: 4050, Start Num: 51
Candidate Starts for Benedict_5:
(Start: 51 @3409 has 73 MA's), (71, 3445), (85, 3466), (106, 3493), (151, 3625), (181, 3706), (189, 3721), (292, 4027),

Gene: BennyP_8 Start: 4661, Stop: 5359, Start Num: 23
Candidate Starts for BennyP_8:
(Start: 23 @4661 has 50 MA's), (239, 5165), (298, 5351),

Gene: Bexan_33 Start: 28908, Stop: 29804, Start Num: 52
Candidate Starts for Bexan_33:
(Start: 52 @28908 has 9 MA's), (83, 28944), (Start: 111 @28986 has 1 MA's), (144, 29073), (153, 29100), (166, 29202), (203, 29331), (246, 29460),

Gene: BiancaTri92_8 Start: 5044, Stop: 5694, Start Num: 31

Candidate Starts for BiancaTri92_8:
(Start: 31 @5044 has 421 MA's), (88, 5116), (140, 5221), (154, 5269), (253, 5560),

Gene: Big3_35 Start: 28678, Stop: 29481, Start Num: 48
Candidate Starts for Big3_35:
(Start: 48 @28678 has 174 MA's), (Start: 76 @28714 has 1 MA's), (112, 28756), (144, 28843), (203, 29098), (226, 29149),

Gene: BigMau_37 Start: 28214, Stop: 29017, Start Num: 48
Candidate Starts for BigMau_37:
(Start: 48 @28214 has 174 MA's), (Start: 76 @28250 has 1 MA's), (112, 28292), (144, 28379), (203, 28634),

Gene: Bigflo_5 Start: 2629, Stop: 3264, Start Num: 31
Candidate Starts for Bigflo_5:
(Start: 31 @2629 has 421 MA's), (148, 2842),

Gene: BillDoor_30 Start: 22485, Stop: 23123, Start Num: 53
Candidate Starts for BillDoor_30:
(Start: 53 @22485 has 6 MA's), (56, 22494), (83, 22536), (100, 22554), (117, 22590), (140, 22650), (207, 22866), (259, 22980),

Gene: Bircsak_35 Start: 28523, Stop: 29326, Start Num: 48
Candidate Starts for Bircsak_35:
(Start: 48 @28523 has 174 MA's), (Start: 76 @28559 has 1 MA's), (112, 28601), (144, 28688), (203, 28943), (226, 28994),

Gene: Blackmoor_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Blackmoor_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Blackpen_39 Start: 33361, Stop: 34008, Start Num: 47
Candidate Starts for Blackpen_39:
(Start: 47 @33361 has 8 MA's), (83, 33418), (106, 33448), (108, 33451), (116, 33469), (176, 33643), (188, 33673), (189, 33676), (193, 33688), (250, 33853), (296, 33991),

Gene: BlessJoy_8 Start: 4661, Stop: 5359, Start Num: 23
Candidate Starts for BlessJoy_8:
(Start: 23 @4661 has 50 MA's), (239, 5165), (298, 5351),

Gene: Blexus_24 Start: 24450, Stop: 25397, Start Num: 48
Candidate Starts for Blexus_24:
(22, 24390), (Start: 48 @24450 has 174 MA's), (83, 24498), (104, 24531), (122, 24564), (130, 24588), (158, 24657), (164, 24774), (168, 24792),

Gene: Blinn1_8 Start: 4661, Stop: 5359, Start Num: 23
Candidate Starts for Blinn1_8:
(Start: 23 @4661 has 50 MA's), (207, 5102), (239, 5165), (298, 5351),

Gene: Blue_35 Start: 28519, Stop: 29322, Start Num: 48
Candidate Starts for Blue_35:
(Start: 48 @28519 has 174 MA's), (Start: 76 @28555 has 1 MA's), (112, 28597), (144, 28684), (203, 28939), (226, 28990), (266, 29167),

Gene: Blue7_8 Start: 4655, Stop: 5353, Start Num: 23
Candidate Starts for Blue7_8:
(Start: 23 @4655 has 50 MA's), (239, 5159), (298, 5345),

Gene: BlueBird_5 Start: 2830, Stop: 3480, Start Num: 31
Candidate Starts for BlueBird_5:
(Start: 31 @2830 has 421 MA's), (171, 3097), (295, 3460),

Gene: BlueCrab_24 Start: 24432, Stop: 25256, Start Num: 48
Candidate Starts for BlueCrab_24:
(22, 24372), (Start: 48 @24432 has 174 MA's), (83, 24480), (122, 24546), (203, 24873),

Gene: Bluefalcon_4 Start: 3677, Stop: 4342, Start Num: 31
Candidate Starts for Bluefalcon_4:
(Start: 31 @3677 has 421 MA's), (Start: 41 @3695 has 6 MA's), (Start: 84 @3743 has 2 MA's), (99, 3764), (142, 3860),

Gene: Bob3_34 Start: 27560, Stop: 28363, Start Num: 48
Candidate Starts for Bob3_34:
(Start: 48 @27560 has 174 MA's), (Start: 76 @27596 has 1 MA's), (112, 27638), (144, 27725), (203, 27980),

Gene: BobRoss2024_36 Start: 32051, Stop: 32710, Start Num: 47
Candidate Starts for BobRoss2024_36:
(Start: 47 @32051 has 8 MA's), (83, 32108), (120, 32168), (127, 32189), (132, 32195), (191, 32372), (210, 32456), (238, 32498), (254, 32567), (260, 32576), (286, 32648),

Gene: BobSwaget_9 Start: 5384, Stop: 6061, Start Num: 31
Candidate Starts for BobSwaget_9:
(Start: 31 @5384 has 421 MA's), (141, 5564), (169, 5645), (174, 5660), (191, 5708), (220, 5798), (233, 5825),

Gene: BobaPhett_24 Start: 24420, Stop: 25244, Start Num: 48
Candidate Starts for BobaPhett_24:
(22, 24360), (Start: 48 @24420 has 174 MA's), (83, 24468), (104, 24501), (122, 24534), (144, 24606), (203, 24861),

Gene: BogosyJay_8 Start: 5009, Stop: 5659, Start Num: 31
Candidate Starts for BogosyJay_8:
(Start: 31 @5009 has 421 MA's), (141, 5186), (148, 5219), (219, 5423), (251, 5519),

Gene: Bombshell_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Bombshell_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Bonamassa_5 Start: 3603, Stop: 4265, Start Num: 31
Candidate Starts for Bonamassa_5:
(Start: 31 @3603 has 421 MA's), (38, 3615), (Start: 60 @3639 has 2 MA's), (74, 3654), (Start: 84 @3669 has 2 MA's), (128, 3744), (173, 3873), (246, 4095),

Gene: Bones_35 Start: 27931, Stop: 28719, Start Num: 73
Candidate Starts for Bones_35:

(Start: 73 @27931 has 37 MA's), (Start: 76 @27937 has 1 MA's), (100, 27973), (173, 28231), (203, 28336), (213, 28363), (226, 28387), (266, 28564),

Gene: Boohoo_8 Start: 4403, Stop: 5071, Start Num: 39
Candidate Starts for Boohoo_8:
(Start: 39 @4403 has 13 MA's), (159, 4643), (187, 4709), (230, 4835),

Gene: Boomer_25 Start: 24077, Stop: 24886, Start Num: 51
Candidate Starts for Boomer_25:
(22, 24017), (Start: 51 @24077 has 73 MA's), (83, 24125), (104, 24158), (122, 24191), (131, 24218), (229, 24557), (244, 24620), (266, 24731),

Gene: Bowtie_8 Start: 5410, Stop: 6072, Start Num: 31
Candidate Starts for Bowtie_8:
(Start: 31 @5410 has 421 MA's), (Start: 84 @5476 has 2 MA's), (128, 5551), (168, 5662), (246, 5902),

Gene: Bradman_31 Start: 23397, Stop: 23996, Start Num: 69
Candidate Starts for Bradman_31:
(Start: 69 @23397 has 4 MA's), (89, 23430), (113, 23448), (140, 23517), (169, 23601), (180, 23637), (212, 23754), (283, 23925),

Gene: Braxoaddie_24 Start: 12622, Stop: 13299, Start Num: 34
Candidate Starts for Braxoaddie_24:
(Start: 34 @12622 has 5 MA's), (80, 12700), (104, 12733), (115, 12757), (119, 12766), (135, 12817), (139, 12826), (181, 12952), (215, 13060), (295, 13276),

Gene: BreSam8_5 Start: 2891, Stop: 3550, Start Num: 31
Candidate Starts for BreSam8_5:
(Start: 31 @2891 has 421 MA's), (Start: 124 @3020 has 1 MA's), (142, 3074), (150, 3107), (176, 3176), (295, 3530),

Gene: Briton15_37 Start: 28318, Stop: 29121, Start Num: 48
Candidate Starts for Briton15_37:
(Start: 48 @28318 has 174 MA's), (Start: 76 @28354 has 1 MA's), (112, 28396), (203, 28738),

Gene: Broseidon_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Broseidon_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (231, 3169), (297, 3367),

Gene: Bruiser_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Bruiser_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Bruns_34 Start: 27953, Stop: 28801, Start Num: 73
Candidate Starts for Bruns_34:
(Start: 73 @27953 has 37 MA's), (Start: 76 @27959 has 1 MA's), (100, 27995), (173, 28313), (203, 28418), (213, 28445), (226, 28469), (266, 28646),

Gene: BubbleTrouble_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for BubbleTrouble_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Bubbles123_25 Start: 24980, Stop: 25789, Start Num: 51
Candidate Starts for Bubbles123_25:
(22, 24920), (Start: 51 @24980 has 73 MA's), (83, 25028), (122, 25094), (131, 25121), (153, 25178), (157, 25184), (168, 25283), (244, 25523), (266, 25634),

Gene: Buckaroo_4 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Buckaroo_4:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Bud_8 Start: 5416, Stop: 6078, Start Num: 31
Candidate Starts for Bud_8:
(Start: 31 @5416 has 421 MA's), (Start: 84 @5482 has 2 MA's), (128, 5557), (246, 5908), (266, 5953),

Gene: Bugatti_5 Start: 2830, Stop: 3480, Start Num: 31
Candidate Starts for Bugatti_5:
(Start: 31 @2830 has 421 MA's), (171, 3097), (295, 3460),

Gene: Bugg_27 Start: 18682, Stop: 19329, Start Num: 51
Candidate Starts for Bugg_27:
(Start: 51 @18682 has 73 MA's), (95, 18745), (153, 18895), (197, 19033), (242, 19141), (265, 19207),

Gene: Bumblebee11_5 Start: 2733, Stop: 3395, Start Num: 31
Candidate Starts for Bumblebee11_5:
(Start: 31 @2733 has 421 MA's), (Start: 111 @2838 has 1 MA's), (220, 3153),

Gene: Burger_4 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Burger_4:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Burton_36 Start: 28168, Stop: 28971, Start Num: 48
Candidate Starts for Burton_36:
(Start: 48 @28168 has 174 MA's), (Start: 76 @28204 has 1 MA's), (112, 28246), (144, 28333), (203, 28588),

Gene: Burwell21_24 Start: 24454, Stop: 25278, Start Num: 48
Candidate Starts for Burwell21_24:
(22, 24394), (Start: 48 @24454 has 174 MA's), (68, 24481), (83, 24502), (104, 24535), (122, 24568), (203, 24895),

Gene: Buttons_37 Start: 29009, Stop: 29929, Start Num: 52
Candidate Starts for Buttons_37:
(Start: 52 @29009 has 9 MA's), (Start: 76 @29045 has 1 MA's), (112, 29087), (144, 29174), (153, 29201), (168, 29309), (174, 29330), (205, 29429), (210, 29441), (235, 29504), (301, 29798), (308, 29897), (310, 29921),

Gene: BuzzBuzz_4 Start: 2720, Stop: 3352, Start Num: 31
Candidate Starts for BuzzBuzz_4:
(Start: 31 @2720 has 421 MA's), (142, 2903), (143, 2906), (148, 2933),

Gene: Bxb1_33 Start: 28131, Stop: 28934, Start Num: 48
Candidate Starts for Bxb1_33:
(Start: 48 @28131 has 174 MA's), (Start: 76 @28167 has 1 MA's), (112, 28209), (144, 28296), (203, 28551), (226, 28602), (266, 28779),

Gene: Bxz2_5 Start: 2730, Stop: 3362, Start Num: 31
Candidate Starts for Bxz2_5:
(Start: 31 @2730 has 421 MA's), (142, 2913), (143, 2916), (148, 2943),

Gene: ByChance_24 Start: 24431, Stop: 25255, Start Num: 48
Candidate Starts for ByChance_24:
(22, 24371), (Start: 48 @24431 has 174 MA's), (68, 24458), (83, 24479), (104, 24512), (122, 24545), (203, 24872),

Gene: C3_30 Start: 24556, Stop: 25221, Start Num: 29
Candidate Starts for C3_30:
(Start: 29 @24556 has 8 MA's), (79, 24619), (118, 24679), (123, 24688), (Start: 124 @24691 has 1 MA's), (250, 25069), (285, 25159), (295, 25201),

Gene: Cabrinians_24 Start: 24448, Stop: 25272, Start Num: 48
Candidate Starts for Cabrinians_24:
(Start: 48 @24448 has 174 MA's), (83, 24496), (104, 24529), (122, 24562), (144, 24634), (203, 24889), (226, 24940),

Gene: Caelakin_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Caelakin_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Cafasso_26 Start: 23921, Stop: 24631, Start Num: 26
Candidate Starts for Cafasso_26:
(4, 23504), (12, 23759), (Start: 26 @23921 has 12 MA's), (32, 23936), (40, 23951), (159, 24203), (230, 24395),

Gene: CaiB_39 Start: 33929, Stop: 34576, Start Num: 47
Candidate Starts for CaiB_39:
(Start: 47 @33929 has 8 MA's), (83, 33986), (106, 34016), (108, 34019), (116, 34037), (143, 34109), (176, 34211), (188, 34241), (189, 34244), (250, 34421), (296, 34559),

Gene: Caitlin_5 Start: 3347, Stop: 4006, Start Num: 31
Candidate Starts for Caitlin_5:
(Start: 31 @3347 has 421 MA's), (77, 3404), (109, 3446), (217, 3764), (250, 3863),

Gene: Calvinny_5 Start: 2888, Stop: 3538, Start Num: 31
Candidate Starts for Calvinny_5:
(Start: 31 @2888 has 421 MA's), (113, 2996), (142, 3071), (200, 3263),

Gene: Camperdownii_5 Start: 2727, Stop: 3401, Start Num: 31
Candidate Starts for Camperdownii_5:
(Start: 31 @2727 has 421 MA's), (74, 2778), (148, 2940), (174, 3003),

Gene: Candra_8 Start: 4694, Stop: 5392, Start Num: 23
Candidate Starts for Candra_8:
(Start: 23 @4694 has 50 MA's), (239, 5198), (298, 5384),

Gene: CanesSauce_28 Start: 22691, Stop: 23383, Start Num: 31
Candidate Starts for CanesSauce_28:

(Start: 31 @22691 has 421 MA's), (77, 22748), (Start: 84 @22757 has 2 MA's), (99, 22778), (134, 22853), (245, 23195),

Gene: Captrips_26 Start: 18675, Stop: 19322, Start Num: 51
Candidate Starts for Captrips_26:
(Start: 51 @18675 has 73 MA's), (95, 18738), (153, 18888), (197, 19026), (242, 19134), (265, 19200),

Gene: CaramelLatte_28 Start: 22691, Stop: 23383, Start Num: 31
Candidate Starts for CaramelLatte_28:
(Start: 31 @22691 has 421 MA's), (77, 22748), (Start: 84 @22757 has 2 MA's), (99, 22778), (134, 22853), (245, 23195),

Gene: Caraxes_31 Start: 22950, Stop: 23612, Start Num: 33
Candidate Starts for Caraxes_31:
(Start: 31 @22947 has 421 MA's), (Start: 33 @22950 has 18 MA's), (113, 23061), (140, 23130), (142, 23136), (148, 23166), (180, 23250), (218, 23373), (246, 23445), (290, 23562),

Gene: CatBus_37 Start: 29555, Stop: 30343, Start Num: 73
Candidate Starts for CatBus_37:
(Start: 73 @29555 has 37 MA's), (Start: 76 @29561 has 1 MA's), (100, 29597), (173, 29855), (203, 29960), (213, 29987), (226, 30011), (266, 30188),

Gene: Cat_4 Start: 2400, Stop: 3059, Start Num: 31
Candidate Starts for Cat_4:
(Start: 31 @2400 has 421 MA's), (43, 2421), (99, 2487), (140, 2577), (148, 2613), (235, 2859), (283, 2997),

Gene: Catalina_8 Start: 5240, Stop: 5869, Start Num: 31
Candidate Starts for Catalina_8:
(Start: 31 @5240 has 421 MA's), (64, 5279), (142, 5420), (148, 5450), (155, 5465),

Gene: Caviar_5 Start: 2764, Stop: 3423, Start Num: 31
Candidate Starts for Caviar_5:
(Start: 31 @2764 has 421 MA's), (43, 2785), (99, 2851), (140, 2941), (148, 2977), (235, 3223), (269, 3310),

Gene: Celestialunch_31 Start: 24063, Stop: 24701, Start Num: 31
Candidate Starts for Celestialunch_31:
(9, 23796), (Start: 31 @24063 has 421 MA's), (59, 24099), (140, 24240), (212, 24474), (295, 24681),

Gene: CentreCat_5 Start: 2723, Stop: 3385, Start Num: 31
Candidate Starts for CentreCat_5:
(Start: 31 @2723 has 421 MA's), (Start: 111 @2828 has 1 MA's), (218, 3140), (220, 3143), (297, 3368),

Gene: Cerulean_5 Start: 2723, Stop: 3388, Start Num: 31
Candidate Starts for Cerulean_5:
(Start: 31 @2723 has 421 MA's), (140, 2900), (171, 2990), (202, 3116),

Gene: Chadwick_5 Start: 3406, Stop: 4047, Start Num: 51
Candidate Starts for Chadwick_5:
(Start: 51 @3406 has 73 MA's), (71, 3442), (85, 3463), (106, 3490), (151, 3622), (181, 3703), (189, 3718), (292, 4024),

Gene: ChampagnePapi_5 Start: 2722, Stop: 3387, Start Num: 31
Candidate Starts for ChampagnePapi_5:
(Start: 31 @2722 has 421 MA's), (140, 2899), (171, 2989), (202, 3115),

Gene: Chanagan_34 Start: 27633, Stop: 28415, Start Num: 48
Candidate Starts for Chanagan_34:
(Start: 48 @27633 has 174 MA's), (Start: 76 @27669 has 1 MA's), (112, 27711), (130, 27759), (131, 27762), (179, 27963), (203, 28047), (213, 28074), (226, 28098), (266, 28260),

Gene: Changeling_8 Start: 5275, Stop: 5919, Start Num: 31
Candidate Starts for Changeling_8:
(Start: 31 @5275 has 421 MA's), (74, 5326), (141, 5455), (142, 5458), (158, 5506), (184, 5584), (295, 5899),

Gene: Chaph_5 Start: 2731, Stop: 3393, Start Num: 31
Candidate Starts for Chaph_5:
(Start: 31 @2731 has 421 MA's), (Start: 111 @2836 has 1 MA's), (218, 3148), (220, 3151), (297, 3376),

Gene: Chargerpower_33 Start: 23787, Stop: 24434, Start Num: 31
Candidate Starts for Chargerpower_33:
(Start: 31 @23787 has 421 MA's), (35, 23793), (94, 23871), (105, 23886), (113, 23898), (140, 23967), (142, 23973), (150, 24006), (191, 24114), (295, 24414),

Gene: Charm_32 Start: 24071, Stop: 24721, Start Num: 31
Candidate Starts for Charm_32:
(3, 23615), (9, 23804), (18, 23999), (Start: 31 @24071 has 421 MA's), (59, 24113), (99, 24164), (140, 24254), (143, 24263), (170, 24341), (190, 24398), (212, 24488),

Gene: Chartreuse_8 Start: 4608, Stop: 5306, Start Num: 23
Candidate Starts for Chartreuse_8:
(Start: 23 @4608 has 50 MA's), (239, 5112), (298, 5298),

Gene: Che12_34 Start: 23324, Stop: 23983, Start Num: 33
Candidate Starts for Che12_34:
(Start: 33 @23324 has 18 MA's), (Start: 41 @23339 has 6 MA's), (113, 23438), (180, 23624), (182, 23633), (212, 23741),

Gene: Chevrolet_24 Start: 24302, Stop: 25084, Start Num: 51
Candidate Starts for Chevrolet_24:
(22, 24242), (Start: 51 @24302 has 73 MA's), (83, 24350), (122, 24416), (210, 24734), (236, 24788),

Gene: ChickenDinner_26 Start: 24858, Stop: 25682, Start Num: 48
Candidate Starts for ChickenDinner_26:
(22, 24798), (Start: 48 @24858 has 174 MA's), (83, 24906), (104, 24939), (122, 24972), (203, 25299),

Gene: ChickyNuggy_27 Start: 18387, Stop: 19034, Start Num: 51
Candidate Starts for ChickyNuggy_27:
(Start: 51 @18387 has 73 MA's), (95, 18450), (153, 18600), (197, 18738), (242, 18846), (265, 18912),

Gene: Chiqui_4 Start: 2767, Stop: 3399, Start Num: 31
Candidate Starts for Chiqui_4:
(Start: 31 @2767 has 421 MA's), (142, 2950), (148, 2980),

Gene: ChocoMunchkin_28 Start: 22691, Stop: 23383, Start Num: 31
Candidate Starts for ChocoMunchkin_28:
(Start: 31 @22691 has 421 MA's), (77, 22748), (Start: 84 @22757 has 2 MA's), (99, 22778), (134, 22853), (245, 23195),

Gene: Chuckly_24 Start: 24431, Stop: 25255, Start Num: 48
Candidate Starts for Chuckly_24:
(22, 24371), (Start: 48 @24431 has 174 MA's), (83, 24479), (122, 24545), (203, 24872),

Gene: Chupacabra_5 Start: 2816, Stop: 3463, Start Num: 31
Candidate Starts for Chupacabra_5:
(Start: 31 @2816 has 421 MA's), (99, 2903), (140, 2993), (184, 3125), (197, 3176), (198, 3179), (208, 3215), (297, 3449),

Gene: Ciao_35 Start: 27976, Stop: 28779, Start Num: 48
Candidate Starts for Ciao_35:
(Start: 48 @27976 has 174 MA's), (Start: 76 @28012 has 1 MA's), (112, 28054), (144, 28141), (203, 28396), (226, 28447),

Gene: Cici_5 Start: 2733, Stop: 3395, Start Num: 31
Candidate Starts for Cici_5:
(Start: 31 @2733 has 421 MA's), (Start: 111 @2838 has 1 MA's), (220, 3153),

Gene: Cindaradix_5 Start: 2722, Stop: 3387, Start Num: 31
Candidate Starts for Cindaradix_5:
(Start: 31 @2722 has 421 MA's), (94, 2803), (196, 3076),

Gene: Cintron_5 Start: 2722, Stop: 3387, Start Num: 31
Candidate Starts for Cintron_5:
(Start: 31 @2722 has 421 MA's), (94, 2803), (99, 2809), (171, 2989), (202, 3115),

Gene: Citius_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Citius_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Clammy_5 Start: 2830, Stop: 3480, Start Num: 31
Candidate Starts for Clammy_5:
(Start: 31 @2830 has 421 MA's), (171, 3097), (295, 3460),

Gene: Clarenza_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Clarenza_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: CloudWang3_8 Start: 4661, Stop: 5359, Start Num: 23
Candidate Starts for CloudWang3_8:
(Start: 23 @4661 has 50 MA's), (239, 5165), (298, 5351),

Gene: CloverMinnie_39 Start: 33869, Stop: 34516, Start Num: 47
Candidate Starts for CloverMinnie_39:
(Start: 47 @33869 has 8 MA's), (83, 33926), (106, 33956), (108, 33959), (116, 33977), (176, 34151), (188, 34181), (189, 34184), (193, 34196), (250, 34361), (296, 34499),

Gene: ClownCar_5 Start: 2888, Stop: 3535, Start Num: 31

Candidate Starts for ClownCar_5:
(Start: 31 @2888 has 421 MA's), (113, 2996), (142, 3071), (149, 3101), (150, 3104),

Gene: Cocoaberry_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Cocoaberry_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: CoffeeBean_24 Start: 12577, Stop: 13254, Start Num: 34
Candidate Starts for CoffeeBean_24:
(Start: 34 @12577 has 5 MA's), (80, 12655), (104, 12688), (115, 12712), (119, 12721), (135, 12772), (139, 12781), (181, 12907), (215, 13015), (295, 13231),

Gene: CogOmlette_30 Start: 23978, Stop: 24619, Start Num: 31
Candidate Starts for CogOmlette_30:
(18, 23906), (Start: 31 @23978 has 421 MA's), (Start: 124 @24113 has 1 MA's), (140, 24161), (212, 24392), (295, 24599),

Gene: Colbster_5 Start: 2629, Stop: 3264, Start Num: 31
Candidate Starts for Colbster_5:
(Start: 31 @2629 has 421 MA's), (148, 2842),

Gene: Coldpizza_40 Start: 36634, Stop: 37356, Start Num: 24
Candidate Starts for Coldpizza_40:
(Start: 24 @36634 has 1 MA's), (85, 36724), (106, 36754), (129, 36814), (188, 36985), (203, 37063), (250, 37189), (290, 37309),

Gene: Colin_8 Start: 5247, Stop: 5933, Start Num: 31
Candidate Starts for Colin_8:
(Start: 31 @5247 has 421 MA's), (141, 5421), (193, 5571), (247, 5742), (284, 5862),

Gene: Colossa_26 Start: 22783, Stop: 23496, Start Num: 26
Candidate Starts for Colossa_26:
(5, 22381), (Start: 26 @22783 has 12 MA's), (67, 22849), (172, 23092), (203, 23209), (299, 23491),

Gene: Commander_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Commander_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Connomayer_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Connomayer_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Conquerage_8 Start: 5224, Stop: 5895, Start Num: 31
Candidate Starts for Conquerage_8:
(Start: 31 @5224 has 421 MA's), (148, 5434), (176, 5506), (220, 5647), (253, 5740), (282, 5818), (295, 5872),

Gene: Conspiracy_5 Start: 3447, Stop: 4088, Start Num: 51
Candidate Starts for Conspiracy_5:
(Start: 51 @3447 has 73 MA's), (117, 3555), (139, 3615), (151, 3663), (156, 3669), (171, 3708), (187, 3753), (189, 3759),

Gene: Coog_5 Start: 3571, Stop: 4233, Start Num: 31

Candidate Starts for Coog_5:
(Start: 31 @3571 has 421 MA's), (38, 3583), (Start: 60 @3607 has 2 MA's), (74, 3622), (Start: 84 @3637 has 2 MA's), (128, 3712), (173, 3841), (246, 4063),

Gene: Cookiedough_8 Start: 4661, Stop: 5359, Start Num: 23
Candidate Starts for Cookiedough_8:
(Start: 23 @4661 has 50 MA's), (239, 5165), (298, 5351),

Gene: Cornucopia_25 Start: 24304, Stop: 25140, Start Num: 48
Candidate Starts for Cornucopia_25:
(22, 24244), (Start: 48 @24304 has 174 MA's), (83, 24352), (104, 24385), (203, 24757), (226, 24808),

Gene: Corvo_36 Start: 28990, Stop: 29778, Start Num: 73
Candidate Starts for Corvo_36:
(Start: 73 @28990 has 37 MA's), (Start: 76 @28996 has 1 MA's), (100, 29032), (173, 29290), (203, 29395), (213, 29422), (226, 29446), (266, 29623),

Gene: Crispicous1_34 Start: 27574, Stop: 28377, Start Num: 48
Candidate Starts for Crispicous1_34:
(Start: 48 @27574 has 174 MA's), (Start: 76 @27610 has 1 MA's), (112, 27652), (144, 27739), (203, 27994), (226, 28045), (229, 28048),

Gene: Croquant_6 Start: 2629, Stop: 3264, Start Num: 31
Candidate Starts for Croquant_6:
(Start: 31 @2629 has 421 MA's), (148, 2842),

Gene: Cuco_5 Start: 3602, Stop: 4264, Start Num: 31
Candidate Starts for Cuco_5:
(Start: 31 @3602 has 421 MA's), (38, 3614), (Start: 60 @3638 has 2 MA's), (74, 3653), (Start: 84 @3668 has 2 MA's), (128, 3743), (173, 3872), (246, 4094),

Gene: Cueylyss_35 Start: 28164, Stop: 28952, Start Num: 73
Candidate Starts for Cueylyss_35:
(Start: 73 @28164 has 37 MA's), (Start: 76 @28170 has 1 MA's), (100, 28206), (173, 28464), (203, 28569), (213, 28596), (226, 28620), (266, 28797),

Gene: Cullens_5 Start: 2629, Stop: 3264, Start Num: 31
Candidate Starts for Cullens_5:
(Start: 31 @2629 has 421 MA's), (148, 2842),

Gene: D29_32 Start: 24412, Stop: 25083, Start Num: 33
Candidate Starts for D29_32:
(Start: 33 @24412 has 18 MA's), (99, 24502), (113, 24523), (140, 24592), (148, 24628), (169, 24676), (246, 24916), (247, 24919), (285, 25018), (290, 25033),

Gene: D32_35 Start: 24412, Stop: 25083, Start Num: 33
Candidate Starts for D32_35:
(Start: 33 @24412 has 18 MA's), (99, 24502), (113, 24523), (140, 24592), (148, 24628), (169, 24676), (246, 24916), (247, 24919), (285, 25018), (290, 25033),

Gene: DBQu4n_35 Start: 24412, Stop: 25083, Start Num: 33
Candidate Starts for DBQu4n_35:

(Start: 33 @24412 has 18 MA's), (99, 24502), (113, 24523), (140, 24592), (148, 24628), (169, 24676), (246, 24916), (247, 24919), (285, 25018), (290, 25033),

Gene: DLane_24 Start: 24254, Stop: 25078, Start Num: 48
Candidate Starts for DLane_24:
(22, 24194), (Start: 48 @24254 has 174 MA's), (83, 24302), (104, 24335), (122, 24368), (203, 24695),

Gene: DRBy19_24 Start: 24290, Stop: 25114, Start Num: 48
Candidate Starts for DRBy19_24:
(22, 24230), (Start: 48 @24290 has 174 MA's), (83, 24338), (104, 24371), (122, 24404), (144, 24476), (203, 24731),

Gene: DaHudson_5 Start: 2890, Stop: 3549, Start Num: 31
Candidate Starts for DaHudson_5:
(Start: 31 @2890 has 421 MA's), (142, 3073), (150, 3106), (176, 3175), (295, 3529),

Gene: DaVinci_8 Start: 4662, Stop: 5360, Start Num: 23
Candidate Starts for DaVinci_8:
(Start: 23 @4662 has 50 MA's), (239, 5166), (298, 5352),

Gene: DaWorst_26 Start: 24797, Stop: 25621, Start Num: 48
Candidate Starts for DaWorst_26:
(Start: 48 @24797 has 174 MA's), (83, 24845), (94, 24866), (203, 25238),

Gene: DaddyRickover_24 Start: 24437, Stop: 25261, Start Num: 48
Candidate Starts for DaddyRickover_24:
(22, 24377), (Start: 48 @24437 has 174 MA's), (83, 24485), (122, 24551), (203, 24878),

Gene: Daenerys_24 Start: 24264, Stop: 25088, Start Num: 48
Candidate Starts for Daenerys_24:
(22, 24204), (Start: 48 @24264 has 174 MA's), (83, 24312), (122, 24378), (203, 24705),

Gene: Daishi_5 Start: 2404, Stop: 3036, Start Num: 31
Candidate Starts for Daishi_5:
(Start: 31 @2404 has 421 MA's), (142, 2587), (143, 2590), (148, 2617),

Gene: Dancer_26 Start: 18375, Stop: 19022, Start Num: 51
Candidate Starts for Dancer_26:
(Start: 51 @18375 has 73 MA's), (95, 18438), (153, 18588), (197, 18726), (242, 18834), (265, 18900),

Gene: Danforth_4 Start: 3362, Stop: 4021, Start Num: 31
Candidate Starts for Danforth_4:
(Start: 31 @3362 has 421 MA's), (77, 3419), (Start: 84 @3428 has 2 MA's), (109, 3461), (250, 3878),

Gene: Darrell_8 Start: 5117, Stop: 5806, Start Num: 31
Candidate Starts for Darrell_8:
(Start: 31 @5117 has 421 MA's), (125, 5261), (133, 5282), (156, 5354), (171, 5393), (186, 5444), (187, 5447), (228, 5579), (240, 5618), (277, 5708), (297, 5792),

Gene: DarthPhader_8 Start: 5319, Stop: 6242, Start Num: 48
Candidate Starts for DarthPhader_8:
(Start: 48 @5319 has 174 MA's), (162, 5628), (163, 5649),

Gene: DatBoi_42 Start: 38878, Stop: 39585, Start Num: 26
Candidate Starts for DatBoi_42:
(10, 38647), (12, 38716), (Start: 26 @38878 has 12 MA's), (32, 38893), (40, 38908), (214, 39325), (250, 39418), (290, 39538),

Gene: Datway_5 Start: 2733, Stop: 3395, Start Num: 31
Candidate Starts for Datway_5:
(Start: 31 @2733 has 421 MA's), (Start: 111 @2838 has 1 MA's), (220, 3153),

Gene: Deano_5 Start: 2722, Stop: 3390, Start Num: 31
Candidate Starts for Deano_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (191, 3046), (220, 3142),

Gene: Deb65_24 Start: 24261, Stop: 25085, Start Num: 48
Candidate Starts for Deb65_24:
(22, 24201), (Start: 48 @24261 has 174 MA's), (83, 24309), (203, 24702),

Gene: DekHockey33_8 Start: 4550, Stop: 5224, Start Num: 51
Candidate Starts for DekHockey33_8:
(Start: 51 @4550 has 73 MA's), (106, 4631), (121, 4667), (170, 4814), (189, 4862),

Gene: DelvinSonDorr_7 Start: 4663, Stop: 5361, Start Num: 23
Candidate Starts for DelvinSonDorr_7:
(Start: 23 @4663 has 50 MA's), (239, 5167), (298, 5353),

Gene: Dexdert_38 Start: 33419, Stop: 34066, Start Num: 49
Candidate Starts for Dexdert_38:
(Start: 49 @33419 has 2 MA's), (83, 33476), (106, 33506), (108, 33509), (141, 33593), (174, 33692), (189, 33734), (212, 33830), (250, 33911), (296, 34049),

Gene: Dhanush_5 Start: 2721, Stop: 3383, Start Num: 31
Candidate Starts for Dhanush_5:
(Start: 31 @2721 has 421 MA's), (Start: 111 @2826 has 1 MA's), (218, 3138), (220, 3141), (297, 3366),

Gene: Dieselweasel_5 Start: 2899, Stop: 3558, Start Num: 31
Candidate Starts for Dieselweasel_5:
(Start: 31 @2899 has 421 MA's), (Start: 124 @3028 has 1 MA's), (142, 3082), (150, 3115), (176, 3184), (295, 3538),

Gene: DillTech15_24 Start: 24302, Stop: 25108, Start Num: 51
Candidate Starts for DillTech15_24:
(22, 24242), (Start: 51 @24302 has 73 MA's), (83, 24350), (94, 24371), (122, 24416), (131, 24443), (145, 24479), (153, 24500), (157, 24506), (266, 24956),

Gene: DirtDevil_37 Start: 29363, Stop: 30151, Start Num: 73
Candidate Starts for DirtDevil_37:
(Start: 73 @29363 has 37 MA's), (Start: 76 @29369 has 1 MA's), (100, 29405), (173, 29663), (203, 29768), (213, 29795), (226, 29819), (266, 29996),

Gene: DirtMcgirt_25 Start: 24087, Stop: 24911, Start Num: 48
Candidate Starts for DirtMcgirt_25:
(Start: 48 @24087 has 174 MA's), (83, 24135), (104, 24168), (122, 24201), (203, 24528), (266, 24756),

Gene: DirtyDunning_5 Start: 2720, Stop: 3385, Start Num: 31
Candidate Starts for DirtyDunning_5:
(Start: 31 @2720 has 421 MA's), (94, 2801), (99, 2807), (140, 2897), (171, 2987), (202, 3113),

Gene: Discoknowium_5 Start: 3710, Stop: 4375, Start Num: 31
Candidate Starts for Discoknowium_5:
(Start: 31 @3710 has 421 MA's), (Start: 41 @3728 has 6 MA's), (Start: 84 @3776 has 2 MA's), (99, 3797), (142, 3893),

Gene: Dixon_5 Start: 3348, Stop: 4007, Start Num: 31
Candidate Starts for Dixon_5:
(Start: 31 @3348 has 421 MA's), (77, 3405), (109, 3447), (217, 3765), (250, 3864),

Gene: DoRead_24 Start: 24262, Stop: 25086, Start Num: 48
Candidate Starts for DoRead_24:
(22, 24202), (Start: 48 @24262 has 174 MA's), (83, 24310), (104, 24343), (122, 24376), (203, 24703),

Gene: DocMcStuffins_26 Start: 24858, Stop: 25682, Start Num: 48
Candidate Starts for DocMcStuffins_26:
(22, 24798), (Start: 48 @24858 has 174 MA's), (83, 24906), (104, 24939), (122, 24972), (203, 25299),

Gene: Donkeykong_24 Start: 24440, Stop: 25264, Start Num: 48
Candidate Starts for Donkeykong_24:
(22, 24380), (Start: 48 @24440 has 174 MA's), (83, 24488), (122, 24554), (203, 24881),

Gene: Doomphist_24 Start: 24402, Stop: 25211, Start Num: 51
Candidate Starts for Doomphist_24:
(22, 24342), (Start: 51 @24402 has 73 MA's), (83, 24450), (104, 24483), (122, 24516), (131, 24543), (244, 24945), (266, 25056),

Gene: Doomslug_26 Start: 24123, Stop: 24947, Start Num: 48
Candidate Starts for Doomslug_26:
(22, 24063), (Start: 48 @24123 has 174 MA's), (83, 24171), (104, 24204), (122, 24237), (203, 24564),

Gene: Dorothea_8 Start: 4661, Stop: 5359, Start Num: 23
Candidate Starts for Dorothea_8:
(Start: 23 @4661 has 50 MA's), (239, 5165), (298, 5351),

Gene: Dorothy_24 Start: 24222, Stop: 25046, Start Num: 48
Candidate Starts for Dorothy_24:
(22, 24162), (Start: 48 @24222 has 174 MA's), (83, 24270), (104, 24303), (122, 24336), (203, 24663),

Gene: DosHalletts_25 Start: 24377, Stop: 25201, Start Num: 48
Candidate Starts for DosHalletts_25:
(22, 24317), (Start: 48 @24377 has 174 MA's), (68, 24404), (83, 24425), (104, 24458), (122, 24491), (203, 24818),

Gene: DotProduct_24 Start: 24269, Stop: 25078, Start Num: 51
Candidate Starts for DotProduct_24:
(Start: 51 @24269 has 73 MA's), (83, 24317), (104, 24350), (122, 24383), (131, 24410), (244, 24812), (266, 24923),

Gene: Doug_25 Start: 24814, Stop: 25638, Start Num: 48

Candidate Starts for Doug_25:
(22, 24754), (Start: 48 @24814 has 174 MA's), (83, 24862), (104, 24895), (122, 24928), (203, 25255),

Gene: DrFeelGood_34 Start: 28437, Stop: 29240, Start Num: 48
Candidate Starts for DrFeelGood_34:
(Start: 48 @28437 has 174 MA's), (Start: 76 @28473 has 1 MA's), (112, 28515), (144, 28602), (203, 28857), (226, 28908),

Gene: Drago_25 Start: 24086, Stop: 24910, Start Num: 48
Candidate Starts for Drago_25:
(22, 24026), (Start: 48 @24086 has 174 MA's), (83, 24134), (122, 24200), (203, 24527),

Gene: DreamCatcher_38 Start: 29392, Stop: 30195, Start Num: 48
Candidate Starts for DreamCatcher_38:
(Start: 48 @29392 has 174 MA's), (Start: 76 @29428 has 1 MA's), (112, 29470), (203, 29812), (226, 29863),

Gene: DreamTeam1_32 Start: 23986, Stop: 24633, Start Num: 31
Candidate Starts for DreamTeam1_32:
(Start: 31 @23986 has 421 MA's), (35, 23992), (62, 24025), (82, 24049), (105, 24085), (113, 24097), (140, 24166), (142, 24172), (143, 24175), (150, 24205), (176, 24274), (191, 24313),

Gene: Dreamboat_36 Start: 27996, Stop: 28784, Start Num: 73
Candidate Starts for Dreamboat_36:
(Start: 73 @27996 has 37 MA's), (Start: 76 @28002 has 1 MA's), (100, 28038), (173, 28296), (203, 28401), (226, 28452), (266, 28629),

Gene: DropBear_5 Start: 2913, Stop: 3572, Start Num: 31
Candidate Starts for DropBear_5:
(Start: 31 @2913 has 421 MA's), (142, 3096), (200, 3297), (247, 3417),

Gene: Druantia_5 Start: 2723, Stop: 3385, Start Num: 31
Candidate Starts for Druantia_5:
(Start: 31 @2723 has 421 MA's), (Start: 111 @2828 has 1 MA's), (218, 3140), (220, 3143), (297, 3368),

Gene: Dublin_4 Start: 3571, Stop: 4233, Start Num: 31
Candidate Starts for Dublin_4:
(Start: 31 @3571 has 421 MA's), (Start: 60 @3607 has 2 MA's), (74, 3622), (Start: 84 @3637 has 2 MA's), (128, 3712), (173, 3841), (246, 4063),

Gene: Duke13_42 Start: 36667, Stop: 37473, Start Num: 51
Candidate Starts for Duke13_42:
(22, 36607), (Start: 51 @36667 has 73 MA's), (83, 36715), (104, 36748), (122, 36781), (147, 36850), (210, 37111), (212, 37117), (266, 37321), (304, 37468),

Gene: Dulcie_34 Start: 27688, Stop: 28491, Start Num: 48
Candidate Starts for Dulcie_34:
(Start: 48 @27688 has 174 MA's), (Start: 76 @27724 has 1 MA's), (112, 27766), (144, 27853), (203, 28108),

Gene: Duplo_35 Start: 24450, Stop: 25121, Start Num: 33
Candidate Starts for Duplo_35:

(Start: 33 @24450 has 18 MA's), (99, 24540), (113, 24561), (140, 24630), (148, 24666), (169, 24714), (246, 24954), (247, 24957), (285, 25056), (290, 25071),

Gene: Dussy_36 Start: 28258, Stop: 29046, Start Num: 73
Candidate Starts for Dussy_36:
(Start: 73 @28258 has 37 MA's), (Start: 76 @28264 has 1 MA's), (100, 28300), (173, 28558), (203, 28663), (213, 28690), (226, 28714), (266, 28891),

Gene: DustyMartin_6 Start: 2752, Stop: 3399, Start Num: 31
Candidate Starts for DustyMartin_6:
(Start: 31 @2752 has 421 MA's), (Start: 53 @2776 has 6 MA's), (99, 2839), (140, 2929), (171, 3019), (197, 3112),

Gene: Dynamix_36 Start: 28070, Stop: 28879, Start Num: 48
Candidate Starts for Dynamix_36:
(Start: 48 @28070 has 174 MA's), (Start: 76 @28106 has 1 MA's), (112, 28148), (144, 28235), (203, 28490), (226, 28541),

Gene: EZMoney23_8 Start: 5345, Stop: 6004, Start Num: 31
Candidate Starts for EZMoney23_8:
(Start: 31 @5345 has 421 MA's), (142, 5528), (150, 5561), (171, 5612), (176, 5630), (297, 5990),

Gene: Eagle_4 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Eagle_4:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: EagleEye_8 Start: 4875, Stop: 5543, Start Num: 25
Candidate Starts for EagleEye_8:
(Start: 25 @4875 has 3 MA's), (103, 4968), (180, 5169), (227, 5310), (246, 5391),

Gene: Eaglepride_6 Start: 2816, Stop: 3460, Start Num: 31
Candidate Starts for Eaglepride_6:
(Start: 31 @2816 has 421 MA's), (99, 2903), (140, 2990), (142, 2996), (190, 3134), (197, 3173), (222, 3233),

Gene: Eapen_5 Start: 2724, Stop: 3386, Start Num: 31
Candidate Starts for Eapen_5:
(Start: 31 @2724 has 421 MA's), (Start: 111 @2829 has 1 MA's), (218, 3141), (220, 3144), (297, 3369),

Gene: Ebony_8 Start: 5416, Stop: 6078, Start Num: 31
Candidate Starts for Ebony_8:
(Start: 31 @5416 has 421 MA's), (Start: 84 @5482 has 2 MA's), (128, 5557), (168, 5668), (246, 5908), (266, 5953),

Gene: Edison31_5 Start: 2836, Stop: 3483, Start Num: 31
Candidate Starts for Edison31_5:
(Start: 31 @2836 has 421 MA's), (140, 3013), (184, 3145), (197, 3196), (198, 3199),

Gene: EdogawaKiddo_8 Start: 5239, Stop: 5868, Start Num: 31
Candidate Starts for EdogawaKiddo_8:
(Start: 31 @5239 has 421 MA's), (64, 5278), (142, 5419), (148, 5449), (155, 5464),

Gene: Eidsmoe_8 Start: 5224, Stop: 5895, Start Num: 31

Candidate Starts for Eidsmoe_8:
(Start: 31 @5224 has 421 MA's), (148, 5434), (176, 5506), (220, 5647), (253, 5740), (282, 5818), (295, 5872),

Gene: Eish_24 Start: 24401, Stop: 25225, Start Num: 48
Candidate Starts for Eish_24:
(22, 24341), (Start: 48 @24401 has 174 MA's), (83, 24449), (104, 24482), (122, 24515), (203, 24842), (266, 25070),

Gene: ElTiger69_5 Start: 3407, Stop: 4048, Start Num: 51
Candidate Starts for ElTiger69_5:
(Start: 51 @3407 has 73 MA's), (71, 3443), (85, 3464), (106, 3491), (151, 3623), (181, 3704), (189, 3719), (292, 4025),

Gene: Elephantoon_8 Start: 4805, Stop: 5470, Start Num: 31
Candidate Starts for Elephantoon_8:
(Start: 31 @4805 has 421 MA's), (148, 5009), (173, 5069), (190, 5117), (207, 5198), (264, 5333), (282, 5393), (295, 5447),

Gene: Elle_8 Start: 4308, Stop: 4970, Start Num: 51
Candidate Starts for Elle_8:
(Start: 51 @4308 has 73 MA's), (91, 4359), (106, 4377), (121, 4413), (191, 4614),

Gene: Emalyn_27 Start: 22133, Stop: 22771, Start Num: 53
Candidate Starts for Emalyn_27:
(Start: 53 @22133 has 6 MA's), (56, 22142), (83, 22184), (100, 22202), (117, 22238), (121, 22250), (139, 22292), (140, 22298), (176, 22409), (207, 22514), (259, 22628),

Gene: Emma_24 Start: 24316, Stop: 25299, Start Num: 48
Candidate Starts for Emma_24:
(22, 24256), (Start: 48 @24316 has 174 MA's), (83, 24364), (153, 24529), (174, 24658), (212, 24784), (307, 25228),

Gene: Empress_25 Start: 25613, Stop: 26437, Start Num: 48
Candidate Starts for Empress_25:
(22, 25553), (Start: 48 @25613 has 174 MA's), (83, 25661), (203, 26054),

Gene: EmyBug_8 Start: 5224, Stop: 5895, Start Num: 31
Candidate Starts for EmyBug_8:
(Start: 31 @5224 has 421 MA's), (140, 5398), (148, 5434), (220, 5647), (282, 5818),

Gene: Enby_25 Start: 24086, Stop: 24910, Start Num: 48
Candidate Starts for Enby_25:
(22, 24026), (Start: 48 @24086 has 174 MA's), (83, 24134), (122, 24200), (203, 24527),

Gene: Enzomatic_26 Start: 24314, Stop: 25024, Start Num: 48
Candidate Starts for Enzomatic_26:
(22, 24254), (Start: 48 @24314 has 174 MA's), (83, 24362), (104, 24395), (122, 24428), (174, 24656),

Gene: EpicPhail_5 Start: 2629, Stop: 3264, Start Num: 31
Candidate Starts for EpicPhail_5:
(Start: 31 @2629 has 421 MA's), (148, 2842),

Gene: Epsocamisio_8 Start: 4403, Stop: 5071, Start Num: 39
Candidate Starts for Epsocamisio_8:
(Start: 39 @4403 has 13 MA's), (159, 4643), (187, 4709), (230, 4835),

Gene: Eradicator_24 Start: 24309, Stop: 25133, Start Num: 48
Candidate Starts for Eradicator_24:
(22, 24249), (Start: 48 @24309 has 174 MA's), (83, 24357), (122, 24423), (203, 24750),

Gene: EricB_8 Start: 4662, Stop: 5360, Start Num: 23
Candidate Starts for EricB_8:
(Start: 23 @4662 has 50 MA's), (239, 5166), (298, 5352),

Gene: Eris_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Eris_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Eros_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Eros_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Et2Brutus_7 Start: 5413, Stop: 6075, Start Num: 31
Candidate Starts for Et2Brutus_7:
(Start: 31 @5413 has 421 MA's), (Start: 84 @5479 has 2 MA's), (128, 5554), (168, 5665), (246, 5905), (266, 5950),

Gene: EtoileNova_4 Start: 2764, Stop: 3423, Start Num: 31
Candidate Starts for EtoileNova_4:
(Start: 31 @2764 has 421 MA's), (43, 2785), (99, 2851), (140, 2941), (148, 2977), (235, 3223), (269, 3310),

Gene: Euphoria_35 Start: 28029, Stop: 28874, Start Num: 73
Candidate Starts for Euphoria_35:
(Start: 73 @28029 has 37 MA's), (Start: 76 @28035 has 1 MA's), (100, 28071), (173, 28389), (203, 28494), (213, 28521), (226, 28545), (266, 28719),

Gene: Eurydice_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Eurydice_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Evaa_37 Start: 33037, Stop: 33708, Start Num: 39
Candidate Starts for Evaa_37:
(1, 32194), (2, 32491), (19, 32962), (Start: 39 @33037 has 13 MA's), (135, 33199), (141, 33217), (181, 33334), (187, 33343), (189, 33349), (249, 33529), (295, 33688),

Gene: Expelliarmus_4 Start: 3348, Stop: 4007, Start Num: 31
Candidate Starts for Expelliarmus_4:
(Start: 31 @3348 has 421 MA's), (77, 3405), (109, 3447), (250, 3864),

Gene: ExplosioNervosa_8 Start: 5227, Stop: 5898, Start Num: 31
Candidate Starts for ExplosioNervosa_8:
(Start: 31 @5227 has 421 MA's), (140, 5401), (148, 5437), (220, 5650), (282, 5821),

Gene: Eyeball_35 Start: 27834, Stop: 28622, Start Num: 73

Candidate Starts for Eyeball_35:
(Start: 73 @27834 has 37 MA's), (Start: 76 @27840 has 1 MA's), (100, 27876), (173, 28134), (203, 28239), (213, 28266), (226, 28290), (266, 28467),

Gene: Fajezeel_37 Start: 28339, Stop: 29142, Start Num: 48
Candidate Starts for Fajezeel_37:
(Start: 48 @28339 has 174 MA's), (Start: 76 @28375 has 1 MA's), (112, 28417), (144, 28504), (203, 28759), (226, 28810),

Gene: Fancypants_24 Start: 24269, Stop: 25093, Start Num: 48
Candidate Starts for Fancypants_24:
(22, 24209), (Start: 48 @24269 has 174 MA's), (83, 24317), (122, 24383), (203, 24710), (244, 24827),

Gene: Farber_5 Start: 2891, Stop: 3550, Start Num: 31
Candidate Starts for Farber_5:
(Start: 31 @2891 has 421 MA's), (142, 3074), (150, 3107), (176, 3176), (295, 3530),

Gene: Fastidio_24 Start: 24233, Stop: 25216, Start Num: 48
Candidate Starts for Fastidio_24:
(22, 24173), (Start: 48 @24233 has 174 MA's), (83, 24281), (94, 24302), (142, 24404), (144, 24419), (153, 24446), (174, 24575), (212, 24701), (307, 25145),

Gene: FatCactus_5 Start: 2885, Stop: 3526, Start Num: 30
Candidate Starts for FatCactus_5:
(Start: 30 @2885 has 1 MA's), (109, 2984), (114, 2993), (141, 3062), (181, 3185),

Gene: Fayely_8 Start: 5227, Stop: 5898, Start Num: 31
Candidate Starts for Fayely_8:
(Start: 31 @5227 has 421 MA's), (140, 5401), (148, 5437), (220, 5650), (282, 5821),

Gene: FelixTres_40 Start: 33932, Stop: 34579, Start Num: 47
Candidate Starts for FelixTres_40:
(Start: 47 @33932 has 8 MA's), (83, 33989), (106, 34019), (108, 34022), (116, 34040), (143, 34112), (176, 34214), (188, 34244), (189, 34247), (230, 34364), (250, 34424), (296, 34562),

Gene: Fenn_36 Start: 29657, Stop: 30460, Start Num: 48
Candidate Starts for Fenn_36:
(Start: 48 @29657 has 174 MA's), (Start: 76 @29693 has 1 MA's), (112, 29735), (203, 30077), (213, 30104), (226, 30128), (232, 30143),

Gene: Fernando_5 Start: 2629, Stop: 3264, Start Num: 31
Candidate Starts for Fernando_5:
(Start: 31 @2629 has 421 MA's), (148, 2842),

Gene: Fibonacci_8 Start: 5413, Stop: 6075, Start Num: 31
Candidate Starts for Fibonacci_8:
(Start: 31 @5413 has 421 MA's), (Start: 84 @5479 has 2 MA's), (128, 5554), (246, 5905), (266, 5950),

Gene: Filuzino_24 Start: 24259, Stop: 25083, Start Num: 48
Candidate Starts for Filuzino_24:
(22, 24199), (Start: 48 @24259 has 174 MA's), (83, 24307), (122, 24373), (203, 24700),

Gene: Flaverint_8 Start: 5410, Stop: 6072, Start Num: 31

Candidate Starts for Flaverint_8:
(Start: 31 @5410 has 421 MA's), (Start: 84 @5476 has 2 MA's), (128, 5551), (168, 5662), (246, 5902),

Gene: Florean_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Florean_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Florence1_5 Start: 3415, Stop: 4056, Start Num: 51
Candidate Starts for Florence1_5:
(Start: 51 @3415 has 73 MA's), (117, 3523), (139, 3583), (151, 3631), (156, 3637), (171, 3676), (189, 3727), (292, 4033),

Gene: Florence4_6 Start: 3415, Stop: 4056, Start Num: 51
Candidate Starts for Florence4_6:
(Start: 51 @3415 has 73 MA's), (117, 3523), (139, 3583), (151, 3631), (156, 3637), (171, 3676), (189, 3727), (292, 4033),

Gene: Florinda_24 Start: 24279, Stop: 25103, Start Num: 48
Candidate Starts for Florinda_24:
(Start: 48 @24279 has 174 MA's), (83, 24327), (122, 24393), (203, 24720),

Gene: Flux_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Flux_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Football_27 Start: 18387, Stop: 19034, Start Num: 51
Candidate Starts for Football_27:
(Start: 51 @18387 has 73 MA's), (95, 18450), (153, 18600), (197, 18738), (242, 18846), (265, 18912),

Gene: ForGetIt_5 Start: 3473, Stop: 4114, Start Num: 51
Candidate Starts for ForGetIt_5:
(Start: 51 @3473 has 73 MA's), (117, 3581), (139, 3641), (151, 3689), (156, 3695), (171, 3734), (187, 3779), (189, 3785),

Gene: ForesterFrank_8 Start: 5331, Stop: 5987, Start Num: 31
Candidate Starts for ForesterFrank_8:
(Start: 31 @5331 has 421 MA's), (113, 5439), (115, 5442), (191, 5652), (202, 5721), (220, 5748),

Gene: Forsytheast_35 Start: 28268, Stop: 29056, Start Num: 73
Candidate Starts for Forsytheast_35:
(Start: 73 @28268 has 37 MA's), (Start: 76 @28274 has 1 MA's), (100, 28310), (173, 28568), (203, 28673), (213, 28700), (226, 28724), (266, 28901),

Gene: FortCran_26 Start: 18647, Stop: 19297, Start Num: 51
Candidate Starts for FortCran_26:
(Start: 51 @18647 has 73 MA's), (71, 18683), (157, 18869), (203, 19031), (207, 19040), (210, 19049), (253, 19148), (266, 19178),

Gene: Fred313_5 Start: 2736, Stop: 3398, Start Num: 31
Candidate Starts for Fred313_5:
(Start: 31 @2736 has 421 MA's), (140, 2913), (148, 2949), (155, 2964), (173, 3009), (250, 3237), (267, 3270),

Gene: FreddyB_24 Start: 24457, Stop: 25281, Start Num: 48
Candidate Starts for FreddyB_24:
(Start: 48 @24457 has 174 MA's), (83, 24505), (104, 24538), (122, 24571), (144, 24643), (203, 24898), (226, 24949),

Gene: Funston_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Funston_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: GMA6_18 Start: 14860, Stop: 15507, Start Num: 60
Candidate Starts for GMA6_18:
(Start: 60 @14860 has 2 MA's), (65, 14869), (123, 14971), (289, 15448),

Gene: GMonster_34 Start: 27408, Stop: 28217, Start Num: 48
Candidate Starts for GMonster_34:
(Start: 48 @27408 has 174 MA's), (Start: 76 @27444 has 1 MA's), (112, 27486), (144, 27573), (203, 27828), (226, 27879),

Gene: GTE2_24 Start: 22211, Stop: 22849, Start Num: 53
Candidate Starts for GTE2_24:
(Start: 53 @22211 has 6 MA's), (83, 22262), (100, 22280), (117, 22316), (139, 22370), (140, 22376), (176, 22487), (207, 22592), (259, 22706),

Gene: GUmbie_24 Start: 24269, Stop: 25093, Start Num: 48
Candidate Starts for GUmbie_24:
(Start: 48 @24269 has 174 MA's), (83, 24317), (104, 24350), (122, 24383), (203, 24710), (266, 24938),

Gene: Gadost_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Gadost_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Gaia_27 Start: 26804, Stop: 27628, Start Num: 48
Candidate Starts for Gaia_27:
(22, 26744), (Start: 48 @26804 has 174 MA's), (83, 26852), (104, 26885), (122, 26918), (144, 26990), (203, 27245), (266, 27473),

Gene: Galactic_24 Start: 24262, Stop: 25068, Start Num: 51
Candidate Starts for Galactic_24:
(22, 24202), (Start: 51 @24262 has 73 MA's), (83, 24310), (131, 24403), (210, 24706), (212, 24712), (266, 24916), (304, 25063),

Gene: Gandalf20_36 Start: 28867, Stop: 29670, Start Num: 48
Candidate Starts for Gandalf20_36:
(Start: 48 @28867 has 174 MA's), (Start: 76 @28903 has 1 MA's), (112, 28945), (144, 29032), (203, 29287),

Gene: Gandalph_24 Start: 24362, Stop: 25186, Start Num: 48
Candidate Starts for Gandalph_24:
(22, 24302), (Start: 48 @24362 has 174 MA's), (83, 24410), (104, 24443), (122, 24476), (203, 24803), (266, 25031),

Gene: Garak_8 Start: 4661, Stop: 5359, Start Num: 23
Candidate Starts for Garak_8:

(Start: 23 @4661 has 50 MA's), (239, 5165), (298, 5351),

Gene: GaugeLDP_8 Start: 4848, Stop: 5522, Start Num: 31
Candidate Starts for GaugeLDP_8:
(Start: 31 @4848 has 421 MA's), (140, 5025), (148, 5061), (171, 5115), (191, 5172), (248, 5352),

Gene: Gemma_5 Start: 2888, Stop: 3538, Start Num: 31
Candidate Starts for Gemma_5:
(Start: 31 @2888 has 421 MA's), (113, 2996), (142, 3071), (200, 3263),

Gene: George_4 Start: 3602, Stop: 4264, Start Num: 31
Candidate Starts for George_4:
(Start: 31 @3602 has 421 MA's), (38, 3614), (Start: 60 @3638 has 2 MA's), (74, 3653), (Start: 84 @3668 has 2 MA's), (128, 3743), (173, 3872), (246, 4094),

Gene: Geralt_24 Start: 24260, Stop: 25084, Start Num: 48
Candidate Starts for Geralt_24:
(22, 24200), (Start: 48 @24260 has 174 MA's), (83, 24308), (203, 24701),

Gene: Ghoulboy_5 Start: 3679, Stop: 4344, Start Num: 31
Candidate Starts for Ghoulboy_5:
(Start: 31 @3679 has 421 MA's), (Start: 41 @3697 has 6 MA's), (Start: 84 @3745 has 2 MA's), (99, 3766), (142, 3862), (284, 4291),

Gene: GigiOuiOui_24 Start: 24393, Stop: 25217, Start Num: 48
Candidate Starts for GigiOuiOui_24:
(Start: 48 @24393 has 174 MA's), (83, 24441), (104, 24474), (122, 24507), (203, 24834), (266, 25062),

Gene: Gilberta_8 Start: 5407, Stop: 6069, Start Num: 31
Candidate Starts for Gilberta_8:
(Start: 31 @5407 has 421 MA's), (Start: 84 @5473 has 2 MA's), (128, 5548), (168, 5659), (246, 5899),

Gene: GingkoMaracino_5 Start: 2809, Stop: 3468, Start Num: 31
Candidate Starts for GingkoMaracino_5:
(Start: 31 @2809 has 421 MA's), (99, 2896), (Start: 124 @2938 has 1 MA's), (142, 2992), (171, 3076), (176, 3094),

Gene: Girafales_25 Start: 24087, Stop: 24911, Start Num: 48
Candidate Starts for Girafales_25:
(Start: 48 @24087 has 174 MA's), (83, 24135), (122, 24201), (203, 24528),

Gene: Giroux_5 Start: 2830, Stop: 3480, Start Num: 31
Candidate Starts for Giroux_5:
(Start: 31 @2830 has 421 MA's), (171, 3097), (295, 3460),

Gene: Girr_24 Start: 24239, Stop: 25063, Start Num: 48
Candidate Starts for Girr_24:
(22, 24179), (Start: 48 @24239 has 174 MA's), (83, 24287), (203, 24680),

Gene: Gladiator_8 Start: 4655, Stop: 5353, Start Num: 23
Candidate Starts for Gladiator_8:
(Start: 23 @4655 has 50 MA's), (239, 5159), (298, 5345),

Gene: Gompeii16_35 Start: 28524, Stop: 29327, Start Num: 48
Candidate Starts for Gompeii16_35:
(Start: 48 @28524 has 174 MA's), (Start: 76 @28560 has 1 MA's), (112, 28602), (144, 28689), (203, 28944), (226, 28995),

Gene: Goose_5 Start: 2818, Stop: 3465, Start Num: 31
Candidate Starts for Goose_5:
(Start: 31 @2818 has 421 MA's), (99, 2905), (140, 2995), (184, 3127), (197, 3178), (198, 3181), (208, 3217), (297, 3451),

Gene: Goose1D_5 Start: 2283, Stop: 2945, Start Num: 31
Candidate Starts for Goose1D_5:
(Start: 31 @2283 has 421 MA's), (140, 2460), (148, 2496), (155, 2511), (173, 2556), (250, 2784), (267, 2817),

Gene: Goose1X_5 Start: 2355, Stop: 3017, Start Num: 31
Candidate Starts for Goose1X_5:
(Start: 31 @2355 has 421 MA's), (140, 2532), (148, 2568), (155, 2583), (173, 2628), (250, 2856), (267, 2889),

Gene: Gorge_24 Start: 24424, Stop: 25248, Start Num: 48
Candidate Starts for Gorge_24:
(22, 24364), (Start: 48 @24424 has 174 MA's), (83, 24472), (104, 24505), (122, 24538), (144, 24610), (203, 24865),

Gene: Graduation_37 Start: 28751, Stop: 29539, Start Num: 73
Candidate Starts for Graduation_37:
(Start: 73 @28751 has 37 MA's), (Start: 76 @28757 has 1 MA's), (100, 28793), (173, 29051), (203, 29156), (213, 29183), (226, 29207), (266, 29384),

Gene: GrecoEtereo_37 Start: 28838, Stop: 29623, Start Num: 73
Candidate Starts for GrecoEtereo_37:
(Start: 73 @28838 has 37 MA's), (Start: 76 @28844 has 1 MA's), (100, 28880), (173, 29138), (203, 29243), (213, 29270), (226, 29294), (266, 29468),

Gene: GreedyLawyer_8 Start: 4661, Stop: 5359, Start Num: 23
Candidate Starts for GreedyLawyer_8:
(Start: 23 @4661 has 50 MA's), (239, 5165), (298, 5351),

Gene: Greely_137 Start: 80266, Stop: 80874, Start Num: 93
Candidate Starts for Greely_137:
(Start: 93 @80266 has 2 MA's), (140, 80377), (141, 80380), (174, 80479), (191, 80527), (211, 80608), (251, 80707), (297, 80857),

Gene: Greg_37 Start: 28339, Stop: 29142, Start Num: 48
Candidate Starts for Greg_37:
(Start: 48 @28339 has 174 MA's), (Start: 76 @28375 has 1 MA's), (112, 28417), (144, 28504), (203, 28759), (226, 28810),

Gene: Grif_5 Start: 2719, Stop: 3351, Start Num: 31
Candidate Starts for Grif_5:
(Start: 31 @2719 has 421 MA's), (142, 2902), (143, 2905), (148, 2932),

Gene: Grimmer_25 Start: 24869, Stop: 25660, Start Num: 48
Candidate Starts for Grimmer_25:
(Start: 48 @24869 has 174 MA's), (83, 24917), (104, 24950), (122, 24983), (174, 25211), (212, 25337), (257, 25502),

Gene: GroundGoblin_37 Start: 29357, Stop: 30301, Start Num: 48
Candidate Starts for GroundGoblin_37:
(Start: 48 @29357 has 174 MA's), (83, 29393), (Start: 111 @29435 has 1 MA's), (174, 29678), (211, 29804),

Gene: Groundhog_4 Start: 3349, Stop: 4008, Start Num: 31
Candidate Starts for Groundhog_4:
(Start: 31 @3349 has 421 MA's), (77, 3406), (109, 3448), (250, 3865),

Gene: Groupthink_6 Start: 2888, Stop: 3538, Start Num: 31
Candidate Starts for Groupthink_6:
(Start: 31 @2888 has 421 MA's), (113, 2996), (142, 3071), (200, 3263),

Gene: Grum1_5 Start: 2629, Stop: 3261, Start Num: 31
Candidate Starts for Grum1_5:
(Start: 31 @2629 has 421 MA's), (142, 2812), (143, 2815), (148, 2842),

Gene: Gruunaga_8 Start: 4655, Stop: 5353, Start Num: 23
Candidate Starts for Gruunaga_8:
(Start: 23 @4655 has 50 MA's), (239, 5159), (298, 5345),

Gene: GtownJaz_5 Start: 2899, Stop: 3558, Start Num: 31
Candidate Starts for GtownJaz_5:
(Start: 31 @2899 has 421 MA's), (Start: 124 @3028 has 1 MA's), (142, 3082), (150, 3115), (176, 3184), (295, 3538),

Gene: Gwennie_5 Start: 2629, Stop: 3264, Start Num: 31
Candidate Starts for Gwennie_5:
(Start: 31 @2629 has 421 MA's), (148, 2842),

Gene: Hades_24 Start: 24354, Stop: 25178, Start Num: 48
Candidate Starts for Hades_24:
(22, 24294), (Start: 48 @24354 has 174 MA's), (203, 24795),

Gene: HamSlice_4 Start: 2723, Stop: 3385, Start Num: 31
Candidate Starts for HamSlice_4:
(Start: 31 @2723 has 421 MA's), (Start: 111 @2828 has 1 MA's), (218, 3140), (220, 3143), (297, 3368),

Gene: Hammer_8 Start: 4655, Stop: 5353, Start Num: 23
Candidate Starts for Hammer_8:
(Start: 23 @4655 has 50 MA's), (138, 4856), (239, 5159), (298, 5345),

Gene: Hamulus_24 Start: 24276, Stop: 25241, Start Num: 51
Candidate Starts for Hamulus_24:
(22, 24213), (Start: 51 @24276 has 73 MA's), (83, 24324), (104, 24357), (122, 24390), (153, 24489), (174, 24618), (211, 24744),

Gene: Hanray_8 Start: 5230, Stop: 5901, Start Num: 31

Candidate Starts for Hanray_8:
(Start: 31 @5230 has 421 MA's), (140, 5404), (148, 5440), (220, 5653), (282, 5824),

Gene: Happiness_5 Start: 2724, Stop: 3389, Start Num: 31
Candidate Starts for Happiness_5:
(Start: 31 @2724 has 421 MA's), (140, 2901), (171, 2991), (202, 3117), (297, 3372),

Gene: Harley_24 Start: 24258, Stop: 25040, Start Num: 51
Candidate Starts for Harley_24:
(Start: 51 @24258 has 73 MA's), (83, 24306), (122, 24372), (210, 24690), (236, 24744),

Gene: HashRod_6 Start: 2720, Stop: 3352, Start Num: 31
Candidate Starts for HashRod_6:
(Start: 31 @2720 has 421 MA's), (142, 2903), (143, 2906), (148, 2933),

Gene: HaveUMetTed_6 Start: 2888, Stop: 3538, Start Num: 31
Candidate Starts for HaveUMetTed_6:
(Start: 31 @2888 has 421 MA's), (113, 2996), (142, 3071), (200, 3263),

Gene: Heathen_5 Start: 2661, Stop: 3311, Start Num: 31
Candidate Starts for Heathen_5:
(Start: 31 @2661 has 421 MA's), (142, 2844), (200, 3036), (247, 3156),

Gene: Heffalump_9 Start: 5602, Stop: 6279, Start Num: 31
Candidate Starts for Heffalump_9:
(Start: 31 @5602 has 421 MA's), (141, 5782), (169, 5860), (189, 5917), (246, 6112), (263, 6151), (274, 6181), (281, 6211),

Gene: HelDan_5 Start: 2913, Stop: 3563, Start Num: 31
Candidate Starts for HelDan_5:
(Start: 31 @2913 has 421 MA's), (142, 3096), (200, 3288), (247, 3408),

Gene: Heliosoles_5 Start: 2888, Stop: 3538, Start Num: 31
Candidate Starts for Heliosoles_5:
(Start: 31 @2888 has 421 MA's), (113, 2996), (142, 3071), (149, 3101), (200, 3263),

Gene: Helmet_8 Start: 4661, Stop: 5359, Start Num: 23
Candidate Starts for Helmet_8:
(Start: 23 @4661 has 50 MA's), (239, 5165), (298, 5351),

Gene: Hercules11_5 Start: 2638, Stop: 3273, Start Num: 31
Candidate Starts for Hercules11_5:
(Start: 31 @2638 has 421 MA's), (148, 2851),

Gene: Hermia_38 Start: 29555, Stop: 30343, Start Num: 73
Candidate Starts for Hermia_38:
(Start: 73 @29555 has 37 MA's), (Start: 76 @29561 has 1 MA's), (100, 29597), (173, 29855), (203, 29960), (266, 30188),

Gene: HermioneGrange_35 Start: 27948, Stop: 28751, Start Num: 48
Candidate Starts for HermioneGrange_35:
(Start: 48 @27948 has 174 MA's), (Start: 76 @27984 has 1 MA's), (112, 28026), (144, 28113), (203, 28368),

Gene: Hexamo_8 Start: 4616, Stop: 5314, Start Num: 23
Candidate Starts for Hexamo_8:
(Start: 23 @4616 has 50 MA's), (239, 5120), (298, 5306),

Gene: HippoHollow_8 Start: 5312, Stop: 5980, Start Num: 31
Candidate Starts for HippoHollow_8:
(Start: 31 @5312 has 421 MA's), (148, 5522), (191, 5633), (207, 5711), (240, 5780),

Gene: Holex_8 Start: 5230, Stop: 5901, Start Num: 31
Candidate Starts for Holex_8:
(Start: 31 @5230 has 421 MA's), (140, 5404), (148, 5440), (220, 5653), (282, 5824),

Gene: Holli_5 Start: 2515, Stop: 3177, Start Num: 31
Candidate Starts for Holli_5:
(Start: 31 @2515 has 421 MA's), (Start: 111 @2620 has 1 MA's), (218, 2932), (220, 2935), (297, 3160),

Gene: Hookmount_5 Start: 2764, Stop: 3423, Start Num: 31
Candidate Starts for Hookmount_5:
(Start: 31 @2764 has 421 MA's), (43, 2785), (99, 2851), (140, 2941), (148, 2977), (235, 3223), (269, 3310),

Gene: Hoot_8 Start: 4661, Stop: 5359, Start Num: 23
Candidate Starts for Hoot_8:
(Start: 23 @4661 has 50 MA's), (196, 5057), (239, 5165), (298, 5351),

Gene: Hope4ever_35 Start: 28441, Stop: 29229, Start Num: 73
Candidate Starts for Hope4ever_35:
(Start: 73 @28441 has 37 MA's), (Start: 76 @28447 has 1 MA's), (100, 28483), (173, 28741), (203, 28846), (213, 28873), (226, 28897), (266, 29074),

Gene: HortumSL17_8 Start: 5239, Stop: 5868, Start Num: 31
Candidate Starts for HortumSL17_8:
(Start: 31 @5239 has 421 MA's), (64, 5278), (142, 5419), (148, 5449), (155, 5464),

Gene: Houdini22_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Houdini22_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: HuhtaEnerson15_5 Start: 3603, Stop: 4265, Start Num: 31
Candidate Starts for HuhtaEnerson15_5:
(Start: 31 @3603 has 421 MA's), (38, 3615), (Start: 60 @3639 has 2 MA's), (74, 3654), (Start: 84 @3669 has 2 MA's), (128, 3744), (173, 3873), (246, 4095),

Gene: Hutc2_8 Start: 5413, Stop: 6075, Start Num: 31
Candidate Starts for Hutc2_8:
(Start: 31 @5413 has 421 MA's), (Start: 84 @5479 has 2 MA's), (128, 5554), (246, 5905), (266, 5950),

Gene: Huxley_5 Start: 2806, Stop: 3474, Start Num: 31
Candidate Starts for Huxley_5:
(Start: 31 @2806 has 421 MA's), (Start: 84 @2872 has 2 MA's), (191, 3130), (220, 3226),

Gene: ICleared_5 Start: 2722, Stop: 3384, Start Num: 31

Candidate Starts for ICleared_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: ILeeKay_37 Start: 28205, Stop: 28993, Start Num: 73
Candidate Starts for ILeeKay_37:
(Start: 73 @28205 has 37 MA's), (Start: 76 @28211 has 1 MA's), (100, 28247), (173, 28505), (203, 28610), (213, 28637), (226, 28661), (266, 28838),

Gene: Ibhubesi_24 Start: 24265, Stop: 25047, Start Num: 51
Candidate Starts for Ibhubesi_24:
(Start: 51 @24265 has 73 MA's), (83, 24313), (122, 24379), (210, 24697), (236, 24751),

Gene: Iceman_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Iceman_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Ichabod_36 Start: 28224, Stop: 29027, Start Num: 48
Candidate Starts for Ichabod_36:
(Start: 48 @28224 has 174 MA's), (Start: 76 @28260 has 1 MA's), (112, 28302), (144, 28389), (203, 28644), (226, 28695),

Gene: Idleandcovert_4 Start: 2830, Stop: 3480, Start Num: 31
Candidate Starts for Idleandcovert_4:
(Start: 31 @2830 has 421 MA's), (171, 3097), (295, 3460),

Gene: Imbriano_8 Start: 4661, Stop: 5359, Start Num: 23
Candidate Starts for Imbriano_8:
(Start: 23 @4661 has 50 MA's), (239, 5165), (298, 5351),

Gene: Indra_8 Start: 4661, Stop: 5359, Start Num: 23
Candidate Starts for Indra_8:
(Start: 23 @4661 has 50 MA's), (239, 5165), (298, 5351),

Gene: Insomnia_8 Start: 5410, Stop: 6072, Start Num: 31
Candidate Starts for Insomnia_8:
(Start: 31 @5410 has 421 MA's), (Start: 84 @5476 has 2 MA's), (128, 5551), (168, 5662), (246, 5902), (266, 5947),

Gene: Inventum_24 Start: 24395, Stop: 25219, Start Num: 48
Candidate Starts for Inventum_24:
(22, 24335), (Start: 48 @24395 has 174 MA's), (83, 24443), (203, 24836),

Gene: Iracema64_5 Start: 2722, Stop: 3387, Start Num: 31
Candidate Starts for Iracema64_5:
(Start: 31 @2722 has 421 MA's), (94, 2803), (99, 2809), (171, 2989), (202, 3115),

Gene: IrishSherpFalk_25 Start: 25625, Stop: 26431, Start Num: 51
Candidate Starts for IrishSherpFalk_25:
(22, 25565), (Start: 51 @25625 has 73 MA's), (83, 25673), (104, 25706), (122, 25739), (210, 26069), (212, 26075), (266, 26279), (304, 26426),

Gene: IronMan_8 Start: 5076, Stop: 5738, Start Num: 31
Candidate Starts for IronMan_8:

(Start: 31 @5076 has 421 MA's), (94, 5157), (Start: 111 @5181 has 1 MA's), (220, 5490),

Gene: Isca_5 Start: 2750, Stop: 3385, Start Num: 31
Candidate Starts for Isca_5:
(Start: 31 @2750 has 421 MA's), (142, 2933), (148, 2963), (178, 3041), (191, 3074),

Gene: Isiphiwo_8 Start: 4661, Stop: 5359, Start Num: 23
Candidate Starts for Isiphiwo_8:
(Start: 23 @4661 has 50 MA's), (239, 5165), (298, 5351),

Gene: JF2_5 Start: 2514, Stop: 3149, Start Num: 31
Candidate Starts for JF2_5:
(Start: 31 @2514 has 421 MA's), (142, 2697), (148, 2727), (178, 2805), (191, 2838),

Gene: JF4_5 Start: 2514, Stop: 3149, Start Num: 31
Candidate Starts for JF4_5:
(Start: 31 @2514 has 421 MA's), (142, 2697), (148, 2727), (178, 2805), (191, 2838),

Gene: JHC117_5 Start: 2629, Stop: 3264, Start Num: 31
Candidate Starts for JHC117_5:
(Start: 31 @2629 has 421 MA's), (148, 2842),

Gene: JSwag_8 Start: 4403, Stop: 5071, Start Num: 39
Candidate Starts for JSwag_8:
(Start: 39 @4403 has 13 MA's), (159, 4643), (187, 4709), (230, 4835),

Gene: Jaan_8 Start: 5072, Stop: 5734, Start Num: 31
Candidate Starts for Jaan_8:
(Start: 31 @5072 has 421 MA's), (94, 5153), (171, 5339), (202, 5465), (297, 5717),

Gene: Jabiru_5 Start: 3407, Stop: 4048, Start Num: 51
Candidate Starts for Jabiru_5:
(Start: 51 @3407 has 73 MA's), (71, 3443), (85, 3464), (106, 3491), (151, 3623), (181, 3704), (189, 3719), (292, 4025),

Gene: Jabith_8 Start: 5410, Stop: 6072, Start Num: 31
Candidate Starts for Jabith_8:
(Start: 31 @5410 has 421 MA's), (Start: 84 @5476 has 2 MA's), (128, 5551), (168, 5662), (246, 5902), (266, 5947),

Gene: Jace_24 Start: 20590, Stop: 21267, Start Num: 39
Candidate Starts for Jace_24:
(Start: 39 @20590 has 13 MA's), (43, 20599), (61, 20623), (80, 20644), (137, 20767), (173, 20878), (175, 20884), (216, 21013),

Gene: James_24 Start: 24420, Stop: 25244, Start Num: 48
Candidate Starts for James_24:
(22, 24360), (Start: 48 @24420 has 174 MA's), (83, 24468), (104, 24501), (122, 24534), (144, 24606), (203, 24861),

Gene: Jant_24 Start: 24416, Stop: 25240, Start Num: 48
Candidate Starts for Jant_24:
(22, 24356), (Start: 48 @24416 has 174 MA's), (83, 24464), (122, 24530), (203, 24857), (266, 25085),

Gene: Jarcob_24 Start: 24455, Stop: 25279, Start Num: 48
Candidate Starts for Jarcob_24:
(22, 24395), (Start: 48 @24455 has 174 MA's), (83, 24503), (104, 24536), (122, 24569), (144, 24641), (203, 24896),

Gene: Jasper_36 Start: 27882, Stop: 28670, Start Num: 73
Candidate Starts for Jasper_36:
(Start: 73 @27882 has 37 MA's), (Start: 76 @27888 has 1 MA's), (100, 27924), (173, 28182), (203, 28287), (213, 28314), (226, 28338), (266, 28515),

Gene: Jaykayelowell_5 Start: 2721, Stop: 3383, Start Num: 31
Candidate Starts for Jaykayelowell_5:
(Start: 31 @2721 has 421 MA's), (Start: 111 @2826 has 1 MA's), (218, 3138), (220, 3141), (297, 3366),

Gene: Jeanie_17 Start: 12036, Stop: 12680, Start Num: 60
Candidate Starts for Jeanie_17:
(Start: 60 @12036 has 2 MA's), (142, 12207), (221, 12432), (246, 12507), (248, 12513), (251, 12525), (270, 12546), (287, 12612),

Gene: Jeeves_32 Start: 23861, Stop: 24529, Start Num: 31
Candidate Starts for Jeeves_32:
(18, 23789), (Start: 31 @23861 has 421 MA's), (140, 24044), (176, 24152), (180, 24164), (209, 24272), (295, 24509),

Gene: Jeffabunny_8 Start: 4661, Stop: 5359, Start Num: 23
Candidate Starts for Jeffabunny_8:
(Start: 23 @4661 has 50 MA's), (239, 5165), (298, 5351),

Gene: JenCasNa_5 Start: 2629, Stop: 3264, Start Num: 31
Candidate Starts for JenCasNa_5:
(Start: 31 @2629 has 421 MA's), (148, 2842),

Gene: JeppNRM_6 Start: 2888, Stop: 3535, Start Num: 31
Candidate Starts for JeppNRM_6:
(Start: 31 @2888 has 421 MA's), (113, 2996), (142, 3071), (150, 3104),

Gene: Jerm2_36 Start: 28214, Stop: 29017, Start Num: 48
Candidate Starts for Jerm2_36:
(Start: 48 @28214 has 174 MA's), (Start: 76 @28250 has 1 MA's), (112, 28292), (144, 28379), (203, 28634),

Gene: JetBlade_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for JetBlade_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: JewelBug_8 Start: 4662, Stop: 5360, Start Num: 23
Candidate Starts for JewelBug_8:
(Start: 23 @4662 has 50 MA's), (239, 5166), (298, 5352),

Gene: Jiawan_8 Start: 5230, Stop: 5901, Start Num: 31
Candidate Starts for Jiawan_8:
(Start: 31 @5230 has 421 MA's), (140, 5404), (148, 5440), (220, 5653), (282, 5824),

Gene: Jinglebell_23 Start: 24502, Stop: 25308, Start Num: 51
Candidate Starts for Jinglebell_23:
(Start: 51 @24502 has 73 MA's), (83, 24550), (104, 24583), (122, 24616), (153, 24700), (157, 24706), (168, 24805), (212, 24952), (244, 25045), (266, 25156),

Gene: Jobu08_5 Start: 2962, Stop: 3621, Start Num: 31
Candidate Starts for Jobu08_5:
(Start: 31 @2962 has 421 MA's), (99, 3049), (Start: 124 @3091 has 1 MA's), (142, 3145), (152, 3184), (171, 3229),

Gene: JoeyJr_24 Start: 24432, Stop: 25256, Start Num: 48
Candidate Starts for JoeyJr_24:
(22, 24372), (Start: 48 @24432 has 174 MA's), (83, 24480), (122, 24546), (203, 24873),

Gene: JoongJeon_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for JoongJeon_5:
(Start: 31 @2722 has 421 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Jordennis_8 Start: 4661, Stop: 5359, Start Num: 23
Candidate Starts for Jordennis_8:
(Start: 23 @4661 has 50 MA's), (239, 5165), (298, 5351),

Gene: Jorgensen_35 Start: 27931, Stop: 28722, Start Num: 48
Candidate Starts for Jorgensen_35:
(Start: 48 @27931 has 174 MA's), (Start: 76 @27967 has 1 MA's), (112, 28009), (131, 28060), (145, 28096), (244, 28459),

Gene: Joselito_8 Start: 5410, Stop: 6072, Start Num: 31
Candidate Starts for Joselito_8:
(Start: 31 @5410 has 421 MA's), (Start: 84 @5476 has 2 MA's), (128, 5551), (168, 5662), (246, 5902),

Gene: Journey13_30 Start: 23737, Stop: 24387, Start Num: 29
Candidate Starts for Journey13_30:
(Start: 29 @23737 has 8 MA's), (Start: 60 @23773 has 2 MA's), (140, 23914), (173, 24010), (180, 24034), (189, 24055), (191, 24061), (250, 24235), (263, 24259),

Gene: Jovo_5 Start: 3729, Stop: 4376, Start Num: 41
Candidate Starts for Jovo_5:
(Start: 31 @3711 has 421 MA's), (Start: 41 @3729 has 6 MA's), (Start: 84 @3777 has 2 MA's), (99, 3798), (142, 3894),

Gene: Jsquared_31 Start: 23470, Stop: 24069, Start Num: 69
Candidate Starts for Jsquared_31:
(Start: 69 @23470 has 4 MA's), (89, 23503), (113, 23521), (140, 23590), (169, 23674), (180, 23710), (212, 23827), (283, 23998),

Gene: JulesRay_26 Start: 18669, Stop: 19316, Start Num: 51
Candidate Starts for JulesRay_26:
(Start: 51 @18669 has 73 MA's), (95, 18732), (153, 18882), (197, 19020), (242, 19128), (265, 19194),

Gene: JuliaChild_37 Start: 28576, Stop: 29454, Start Num: 52
Candidate Starts for JuliaChild_37:

(Start: 52 @28576 has 9 MA's), (83, 28612), (115, 28654), (144, 28741), (153, 28768), (174, 28897), (212, 29008), (244, 29107), (307, 29383),

Gene: Junimo_4 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Junimo_4:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Juniper1_24 Start: 24259, Stop: 25068, Start Num: 51
Candidate Starts for Juniper1_24:
(22, 24196), (Start: 51 @24259 has 73 MA's), (54, 24265), (83, 24307), (122, 24373), (131, 24400), (153, 24457), (157, 24463), (168, 24562), (244, 24802), (266, 24913),

Gene: KADY_6 Start: 2720, Stop: 3352, Start Num: 31
Candidate Starts for KADY_6:
(Start: 31 @2720 has 421 MA's), (142, 2903), (143, 2906), (148, 2933),

Gene: KFPoly_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for KFPoly_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: KSSJEB_35 Start: 27824, Stop: 28633, Start Num: 48
Candidate Starts for KSSJEB_35:
(Start: 48 @27824 has 174 MA's), (Start: 76 @27860 has 1 MA's), (112, 27902), (203, 28244), (226, 28295),

Gene: Kachowdy_5 Start: 2913, Stop: 3563, Start Num: 31
Candidate Starts for Kachowdy_5:
(Start: 31 @2913 has 421 MA's), (142, 3096), (200, 3288), (247, 3408),

Gene: Kalb97_6 Start: 2886, Stop: 3536, Start Num: 31
Candidate Starts for Kalb97_6:
(Start: 31 @2886 has 421 MA's), (113, 2994), (142, 3069), (200, 3261),

Gene: Kalnoky_6 Start: 2888, Stop: 3538, Start Num: 31
Candidate Starts for Kalnoky_6:
(Start: 31 @2888 has 421 MA's), (113, 2996), (142, 3071), (200, 3263),

Gene: Kalpine_8 Start: 5367, Stop: 6047, Start Num: 31
Candidate Starts for Kalpine_8:
(Start: 31 @5367 has 421 MA's), (141, 5547), (261, 5910),

Gene: Kampy_5 Start: 2723, Stop: 3385, Start Num: 31
Candidate Starts for Kampy_5:
(Start: 31 @2723 has 421 MA's), (Start: 111 @2828 has 1 MA's), (218, 3140), (220, 3143), (297, 3368),

Gene: Kanely_36 Start: 28634, Stop: 29578, Start Num: 48
Candidate Starts for Kanely_36:
(Start: 48 @28634 has 174 MA's), (83, 28670), (Start: 111 @28712 has 1 MA's), (174, 28955), (211, 29081),

Gene: Karhdo_24 Start: 24395, Stop: 25219, Start Num: 48
Candidate Starts for Karhdo_24:
(22, 24335), (Start: 48 @24395 has 174 MA's), (83, 24443), (104, 24476), (122, 24509), (203, 24836),

Gene: Katalie136_5 Start: 2733, Stop: 3395, Start Num: 31
Candidate Starts for Katalie136_5:
(Start: 31 @2733 has 421 MA's), (Start: 111 @2838 has 1 MA's), (220, 3153),

Gene: KatherineG_8 Start: 4550, Stop: 5224, Start Num: 51
Candidate Starts for KatherineG_8:
(Start: 51 @4550 has 73 MA's), (106, 4631), (121, 4667), (170, 4814), (189, 4862),

Gene: Kazan_8 Start: 4661, Stop: 5365, Start Num: 23
Candidate Starts for Kazan_8:
(Start: 23 @4661 has 50 MA's), (239, 5171), (298, 5357),

Gene: KekoraPapaka_4 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for KekoraPapaka_4:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Kenmech_38 Start: 29345, Stop: 30133, Start Num: 73
Candidate Starts for Kenmech_38:
(Start: 73 @29345 has 37 MA's), (Start: 76 @29351 has 1 MA's), (100, 29387), (173, 29645), (203, 29750), (213, 29777), (226, 29801), (266, 29978),

Gene: Kerberos_35 Start: 24412, Stop: 25083, Start Num: 33
Candidate Starts for Kerberos_35:
(Start: 33 @24412 has 18 MA's), (99, 24502), (113, 24523), (140, 24592), (148, 24628), (169, 24676), (246, 24916), (247, 24919), (285, 25018), (290, 25033),

Gene: KikiBouba_38 Start: 29364, Stop: 30152, Start Num: 73
Candidate Starts for KikiBouba_38:
(Start: 73 @29364 has 37 MA's), (Start: 76 @29370 has 1 MA's), (100, 29406), (173, 29664), (203, 29769), (213, 29796), (226, 29820), (266, 29997),

Gene: Killigrew_33 Start: 27558, Stop: 28355, Start Num: 48
Candidate Starts for Killigrew_33:
(Start: 48 @27558 has 174 MA's), (Start: 76 @27594 has 1 MA's), (112, 27636), (130, 27684), (131, 27687), (179, 27888), (203, 27972), (213, 27999), (226, 28023),

Gene: Kimba_8 Start: 5410, Stop: 6072, Start Num: 31
Candidate Starts for Kimba_8:
(Start: 31 @5410 has 421 MA's), (Start: 84 @5476 has 2 MA's), (128, 5551), (168, 5662), (246, 5902), (266, 5947),

Gene: Kimberlium_26 Start: 25387, Stop: 26211, Start Num: 48
Candidate Starts for Kimberlium_26:
(22, 25327), (Start: 48 @25387 has 174 MA's), (83, 25435), (122, 25501), (203, 25828), (266, 26056),

Gene: Kimona_29 Start: 22444, Stop: 23019, Start Num: 84
Candidate Starts for Kimona_29:
(Start: 23 @22342 has 50 MA's), (Start: 84 @22444 has 2 MA's), (94, 22459), (102, 22468), (140, 22552), (148, 22588), (175, 22654), (176, 22660), (282, 22954),

Gene: KingMidas_25 Start: 25564, Stop: 26388, Start Num: 48
Candidate Starts for KingMidas_25:

(22, 25504), (Start: 48 @25564 has 174 MA's), (83, 25612), (122, 25678), (203, 26005),

Gene: Kingmustik0402_5 Start: 2714, Stop: 3376, Start Num: 31
Candidate Starts for Kingmustik0402_5:
(Start: 31 @2714 has 421 MA's), (Start: 111 @2819 has 1 MA's), (218, 3131), (220, 3134), (297, 3359),

Gene: Kinmap_32 Start: 24255, Stop: 24890, Start Num: 31
Candidate Starts for Kinmap_32:
(Start: 31 @24255 has 421 MA's), (212, 24669), (240, 24723),

Gene: Kipper29_8 Start: 4661, Stop: 5359, Start Num: 23
Candidate Starts for Kipper29_8:
(Start: 23 @4661 has 50 MA's), (239, 5165), (298, 5351),

Gene: Klodlith_32 Start: 23986, Stop: 24633, Start Num: 31
Candidate Starts for Klodlith_32:
(Start: 31 @23986 has 421 MA's), (35, 23992), (62, 24025), (82, 24049), (105, 24085), (113, 24097), (140, 24166), (142, 24172), (143, 24175), (150, 24205), (176, 24274), (191, 24313),

Gene: Koan_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Koan_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Koduck_33 Start: 23582, Stop: 24238, Start Num: 33
Candidate Starts for Koduck_33:
(Start: 31 @23579 has 421 MA's), (Start: 33 @23582 has 18 MA's), (Start: 41 @23597 has 6 MA's), (113, 23696), (148, 23801), (180, 23885), (220, 24011), (235, 24041),

Gene: Koko_8 Start: 4661, Stop: 5359, Start Num: 23
Candidate Starts for Koko_8:
(Start: 23 @4661 has 50 MA's), (239, 5165), (298, 5351),

Gene: Koreni_5 Start: 2722, Stop: 3393, Start Num: 31
Candidate Starts for Koreni_5:
(Start: 31 @2722 has 421 MA's), (196, 3082),

Gene: Krakatau_25 Start: 24963, Stop: 25769, Start Num: 51
Candidate Starts for Krakatau_25:
(22, 24903), (Start: 51 @24963 has 73 MA's), (83, 25011), (212, 25413), (244, 25506), (266, 25617),

Gene: Kratark_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Kratark_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Kremtemulon_5 Start: 2722, Stop: 3387, Start Num: 31
Candidate Starts for Kremtemulon_5:
(Start: 31 @2722 has 421 MA's), (94, 2803), (99, 2809), (171, 2989), (202, 3115),

Gene: Kristoff_6 Start: 3001, Stop: 3648, Start Num: 31
Candidate Starts for Kristoff_6:
(Start: 31 @3001 has 421 MA's), (113, 3109), (140, 3178), (171, 3268), (197, 3361),

Gene: Kudefre_32 Start: 27445, Stop: 28155, Start Num: 26

Candidate Starts for Kudefre_32:
(Start: 26 @27445 has 12 MA's), (140, 27649), (142, 27655), (168, 27730), (187, 27778), (188, 27781), (189, 27784), (203, 27859), (252, 27988), (284, 28087), (292, 28129),

Gene: Kyee_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Kyee_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: L5_32 Start: 23536, Stop: 24198, Start Num: 33
Candidate Starts for L5_32:
(Start: 33 @23536 has 18 MA's), (Start: 41 @23551 has 6 MA's), (79, 23608), (113, 23656), (148, 23761), (180, 23845), (220, 23971), (235, 24001),

Gene: LBerry_5 Start: 2629, Stop: 3264, Start Num: 31
Candidate Starts for LBerry_5:
(Start: 31 @2629 has 421 MA's), (148, 2842),

Gene: LHTSCC_5 Start: 2722, Stop: 3387, Start Num: 31
Candidate Starts for LHTSCC_5:
(Start: 31 @2722 has 421 MA's), (140, 2899), (171, 2989), (202, 3115),

Gene: Lambert1_5 Start: 2764, Stop: 3423, Start Num: 31
Candidate Starts for Lambert1_5:
(Start: 31 @2764 has 421 MA's), (43, 2785), (99, 2851), (140, 2941), (148, 2977), (235, 3223), (269, 3310),

Gene: Lamina13_35 Start: 27644, Stop: 28477, Start Num: 48
Candidate Starts for Lamina13_35:
(Start: 48 @27644 has 174 MA's), (72, 27680), (98, 27722), (153, 27836), (169, 27950), (174, 27965), (179, 27983), (210, 28094), (243, 28187), (275, 28337), (276, 28346), (280, 28367), (281, 28370),

Gene: Landor_8 Start: 5074, Stop: 5736, Start Num: 31
Candidate Starts for Landor_8:
(Start: 31 @5074 has 421 MA's), (94, 5155), (Start: 111 @5179 has 1 MA's), (171, 5335), (202, 5461), (220, 5488),

Gene: LappelDuVide_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for LappelDuVide_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: LarryKay_5 Start: 2720, Stop: 3352, Start Num: 31
Candidate Starts for LarryKay_5:
(Start: 31 @2720 has 421 MA's), (142, 2903), (143, 2906), (148, 2933),

Gene: LastResort_8 Start: 4403, Stop: 5071, Start Num: 39
Candidate Starts for LastResort_8:
(Start: 39 @4403 has 13 MA's), (159, 4643), (187, 4709), (230, 4835),

Gene: Lemur_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Lemur_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: LeoAvram_5 Start: 2722, Stop: 3384, Start Num: 31

Candidate Starts for LeoAvram_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Leogania_8 Start: 5401, Stop: 6051, Start Num: 31
Candidate Starts for Leogania_8:
(Start: 31 @5401 has 421 MA's), (88, 5473), (140, 5578), (154, 5626), (253, 5917),

Gene: Leozinho_25 Start: 24109, Stop: 24933, Start Num: 48
Candidate Starts for Leozinho_25:
(22, 24049), (Start: 48 @24109 has 174 MA's), (83, 24157), (104, 24190), (122, 24223), (203, 24550),

Gene: Leperchaun_24 Start: 24336, Stop: 25160, Start Num: 48
Candidate Starts for Leperchaun_24:
(22, 24276), (Start: 48 @24336 has 174 MA's), (83, 24384), (122, 24450), (203, 24777),

Gene: Lev2_5 Start: 3446, Stop: 4087, Start Num: 51
Candidate Starts for Lev2_5:
(Start: 51 @3446 has 73 MA's), (117, 3554), (139, 3614), (151, 3662), (156, 3668), (171, 3707), (187, 3752), (189, 3758),

Gene: Licorice_37 Start: 29036, Stop: 29821, Start Num: 73
Candidate Starts for Licorice_37:
(Start: 73 @29036 has 37 MA's), (Start: 76 @29042 has 1 MA's), (100, 29078), (173, 29336), (203, 29441), (213, 29468), (226, 29492),

Gene: LilMoolah_24 Start: 24554, Stop: 25378, Start Num: 48
Candidate Starts for LilMoolah_24:
(22, 24494), (Start: 48 @24554 has 174 MA's), (68, 24581), (83, 24602), (104, 24635), (122, 24668), (203, 24995),

Gene: Lilbunny_8 Start: 4661, Stop: 5359, Start Num: 23
Candidate Starts for Lilbunny_8:
(Start: 23 @4661 has 50 MA's), (239, 5165), (298, 5351),

Gene: Lilith_5 Start: 2891, Stop: 3550, Start Num: 31
Candidate Starts for Lilith_5:
(Start: 31 @2891 has 421 MA's), (142, 3074), (150, 3107), (176, 3176), (295, 3530),

Gene: Lilleskat_8 Start: 5239, Stop: 5868, Start Num: 31
Candidate Starts for Lilleskat_8:
(Start: 31 @5239 has 421 MA's), (64, 5278), (142, 5419), (148, 5449), (155, 5464),

Gene: LionsBait_8 Start: 5306, Stop: 5974, Start Num: 31
Candidate Starts for LionsBait_8:
(Start: 31 @5306 has 421 MA's), (148, 5516), (191, 5627), (207, 5705), (240, 5774),

Gene: LittleB_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for LittleB_5:
(Start: 31 @2722 has 421 MA's), (74, 2773), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: LittleCherry_5 Start: 3604, Stop: 4266, Start Num: 31
Candidate Starts for LittleCherry_5:

(Start: 31 @3604 has 421 MA's), (38, 3616), (Start: 60 @3640 has 2 MA's), (74, 3655), (Start: 84 @3670 has 2 MA's), (128, 3745), (173, 3874), (246, 4096),

Gene: LittleE_45 Start: 37858, Stop: 38664, Start Num: 51
Candidate Starts for LittleE_45:
(22, 37798), (Start: 51 @37858 has 73 MA's), (83, 37906), (122, 37972), (130, 37996), (131, 37999), (210, 38302), (212, 38308), (266, 38512), (304, 38659),

Gene: LittleGuy_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for LittleGuy_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (220, 3142), (297, 3367),

Gene: Lizziana_24 Start: 24429, Stop: 25253, Start Num: 48
Candidate Starts for Lizziana_24:
(Start: 48 @24429 has 174 MA's), (83, 24477), (104, 24510), (122, 24543), (144, 24615), (203, 24870),

Gene: Llama_24 Start: 24502, Stop: 25308, Start Num: 51
Candidate Starts for Llama_24:
(Start: 51 @24502 has 73 MA's), (83, 24550), (104, 24583), (122, 24616), (153, 24700), (157, 24706), (168, 24805), (212, 24952), (244, 25045), (266, 25156),

Gene: Llij_24 Start: 24250, Stop: 25074, Start Num: 48
Candidate Starts for Llij_24:
(22, 24190), (Start: 48 @24250 has 174 MA's), (83, 24298), (122, 24364), (203, 24691),

Gene: LochMonster_5 Start: 2720, Stop: 3385, Start Num: 31
Candidate Starts for LochMonster_5:
(Start: 31 @2720 has 421 MA's), (94, 2801), (99, 2807), (171, 2987), (202, 3113),

Gene: Lockley_36 Start: 27986, Stop: 28873, Start Num: 52
Candidate Starts for Lockley_36:
(Start: 52 @27986 has 9 MA's), (Start: 76 @28022 has 1 MA's), (112, 28064), (144, 28151), (153, 28178), (168, 28286), (169, 28292), (174, 28307), (205, 28406), (210, 28418), (235, 28481),

Gene: Lokk_9 Start: 5386, Stop: 6063, Start Num: 31
Candidate Starts for Lokk_9:
(Start: 31 @5386 has 421 MA's), (Start: 60 @5422 has 2 MA's), (141, 5566), (174, 5662), (191, 5710), (220, 5800), (233, 5827),

Gene: LoneWolf_8 Start: 4997, Stop: 5665, Start Num: 31
Candidate Starts for LoneWolf_8:
(Start: 31 @4997 has 421 MA's), (141, 5171), (148, 5204), (204, 5387), (264, 5528), (282, 5588),

Gene: Lopton_36 Start: 29446, Stop: 30216, Start Num: 48
Candidate Starts for Lopton_36:
(Start: 48 @29446 has 174 MA's), (Start: 76 @29482 has 1 MA's), (112, 29524), (203, 29866), (226, 29917),

Gene: Lorde_25 Start: 24086, Stop: 24910, Start Num: 48
Candidate Starts for Lorde_25:
(22, 24026), (Start: 48 @24086 has 174 MA's), (83, 24134), (122, 24200), (203, 24527),

Gene: Lorenzo_5 Start: 2722, Stop: 3384, Start Num: 31

Candidate Starts for Lorenzo_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Loser_8 Start: 5253, Stop: 5897, Start Num: 31
Candidate Starts for Loser_8:
(Start: 31 @5253 has 421 MA's), (141, 5433), (158, 5484),

Gene: Louie6_5 Start: 2720, Stop: 3352, Start Num: 31
Candidate Starts for Louie6_5:
(Start: 31 @2720 has 421 MA's), (142, 2903), (143, 2906), (148, 2933), (282, 3287),

Gene: Lowa_5 Start: 2890, Stop: 3549, Start Num: 31
Candidate Starts for Lowa_5:
(Start: 31 @2890 has 421 MA's), (142, 3073), (150, 3106), (176, 3175), (295, 3529),

Gene: Lucia_25 Start: 24370, Stop: 25194, Start Num: 48
Candidate Starts for Lucia_25:
(22, 24310), (Start: 48 @24370 has 174 MA's), (83, 24418), (104, 24451), (122, 24484), (144, 24556), (203, 24811), (226, 24862),

Gene: Lucivia_8 Start: 5407, Stop: 6069, Start Num: 31
Candidate Starts for Lucivia_8:
(Start: 31 @5407 has 421 MA's), (Start: 84 @5473 has 2 MA's), (128, 5548), (168, 5659), (246, 5899), (266, 5944),

Gene: Lucyedi_8 Start: 4875, Stop: 5543, Start Num: 25
Candidate Starts for Lucyedi_8:
(Start: 25 @4875 has 3 MA's), (77, 4932), (103, 4968), (180, 5169), (246, 5391),

Gene: LugYA_7 Start: 2629, Stop: 3264, Start Num: 31
Candidate Starts for LugYA_7:
(Start: 31 @2629 has 421 MA's), (148, 2842),

Gene: LunaBlu_25 Start: 24345, Stop: 25313, Start Num: 48
Candidate Starts for LunaBlu_25:
(22, 24285), (Start: 48 @24345 has 174 MA's), (83, 24393), (104, 24426), (174, 24687),

Gene: LunarLander_36 Start: 28152, Stop: 28940, Start Num: 73
Candidate Starts for LunarLander_36:
(Start: 73 @28152 has 37 MA's), (Start: 76 @28158 has 1 MA's), (100, 28194), (173, 28452), (203, 28557), (213, 28584), (226, 28608), (266, 28785),

Gene: Lunsford_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Lunsford_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: MA5_5 Start: 2468, Stop: 3118, Start Num: 31
Candidate Starts for MA5_5:
(Start: 31 @2468 has 421 MA's), (142, 2651), (200, 2843),

Gene: MK4_5 Start: 2748, Stop: 3383, Start Num: 31
Candidate Starts for MK4_5:
(Start: 31 @2748 has 421 MA's), (142, 2931), (148, 2961), (178, 3039), (191, 3072),

Gene: MaCh_8 Start: 5407, Stop: 6069, Start Num: 31
Candidate Starts for MaCh_8:
(Start: 31 @5407 has 421 MA's), (Start: 84 @5473 has 2 MA's), (128, 5548), (168, 5659), (246, 5899),

Gene: Mabel_8 Start: 5422, Stop: 6084, Start Num: 31
Candidate Starts for Mabel_8:
(Start: 31 @5422 has 421 MA's), (Start: 84 @5488 has 2 MA's), (128, 5563), (168, 5674), (246, 5914), (266, 5959),

Gene: MadMarie_5 Start: 2900, Stop: 3559, Start Num: 31
Candidate Starts for MadMarie_5:
(Start: 31 @2900 has 421 MA's), (Start: 124 @3029 has 1 MA's), (142, 3083), (150, 3116), (176, 3185), (295, 3539),

Gene: Mahavrat_24 Start: 24254, Stop: 25063, Start Num: 51
Candidate Starts for Mahavrat_24:
(Start: 51 @24254 has 73 MA's), (83, 24302), (104, 24335), (122, 24368), (131, 24395), (153, 24452), (157, 24458), (168, 24557), (244, 24797), (266, 24908),

Gene: Mainiac_5 Start: 2891, Stop: 3550, Start Num: 31
Candidate Starts for Mainiac_5:
(Start: 31 @2891 has 421 MA's), (Start: 124 @3020 has 1 MA's), (142, 3074), (150, 3107), (176, 3176), (295, 3530),

Gene: MajorMajor_31 Start: 23397, Stop: 23996, Start Num: 69
Candidate Starts for MajorMajor_31:
(Start: 69 @23397 has 4 MA's), (89, 23430), (113, 23448), (140, 23517), (169, 23601), (180, 23637), (212, 23754), (283, 23925),

Gene: MakoManhole_39 Start: 33947, Stop: 34594, Start Num: 47
Candidate Starts for MakoManhole_39:
(Start: 47 @33947 has 8 MA's), (83, 34004), (106, 34034), (108, 34037), (116, 34055), (176, 34229), (188, 34259), (189, 34262), (193, 34274), (250, 34439), (296, 34577),

Gene: Malec_33 Start: 25107, Stop: 25760, Start Num: 31
Candidate Starts for Malec_33:
(18, 25035), (Start: 31 @25107 has 421 MA's), (59, 25149), (148, 25326), (173, 25386), (174, 25389), (180, 25410), (193, 25443), (212, 25527), (262, 25641), (285, 25707),

Gene: Malinsilva_7 Start: 2890, Stop: 3549, Start Num: 31
Candidate Starts for Malinsilva_7:
(Start: 31 @2890 has 421 MA's), (142, 3073), (150, 3106), (176, 3175), (295, 3529),

Gene: Maminiaina_8 Start: 4988, Stop: 5638, Start Num: 31
Candidate Starts for Maminiaina_8:
(Start: 31 @4988 has 421 MA's), (141, 5165), (148, 5198), (219, 5402), (251, 5498),

Gene: Manatee_36 Start: 27769, Stop: 28572, Start Num: 48
Candidate Starts for Manatee_36:
(Start: 48 @27769 has 174 MA's), (Start: 76 @27805 has 1 MA's), (112, 27847), (144, 27934), (203, 28189), (226, 28240),

Gene: Mantra_24 Start: 24362, Stop: 25186, Start Num: 48
Candidate Starts for Mantra_24:
(Start: 48 @24362 has 174 MA's), (83, 24410), (104, 24443), (122, 24476), (203, 24803), (266, 25031),

Gene: Manu_6 Start: 2888, Stop: 3538, Start Num: 31
Candidate Starts for Manu_6:
(Start: 31 @2888 has 421 MA's), (113, 2996), (142, 3071), (200, 3263),

Gene: MarQuardt_5 Start: 2899, Stop: 3558, Start Num: 31
Candidate Starts for MarQuardt_5:
(Start: 31 @2899 has 421 MA's), (142, 3082), (150, 3115), (176, 3184), (295, 3538),

Gene: Maravista_24 Start: 24211, Stop: 25035, Start Num: 48
Candidate Starts for Maravista_24:
(22, 24151), (Start: 48 @24211 has 174 MA's), (83, 24259), (122, 24325), (203, 24652),

Gene: Marchesa_5 Start: 2913, Stop: 3563, Start Num: 31
Candidate Starts for Marchesa_5:
(Start: 31 @2913 has 421 MA's), (142, 3096), (200, 3288), (247, 3408),

Gene: Margo_5 Start: 2764, Stop: 3441, Start Num: 31
Candidate Starts for Margo_5:
(Start: 31 @2764 has 421 MA's), (140, 2941), (148, 2977), (190, 3085), (282, 3364),

Gene: Marie_5 Start: 2629, Stop: 3264, Start Num: 31
Candidate Starts for Marie_5:
(Start: 31 @2629 has 421 MA's), (148, 2842),

Gene: Marietta_47 Start: 33564, Stop: 34148, Start Num: 111
Candidate Starts for Marietta_47:
(Start: 111 @33564 has 1 MA's), (117, 33573), (140, 33642), (141, 33645), (169, 33729), (188, 33780), (213, 33882), (248, 33966), (250, 33975), (251, 33978),

Gene: Marius_6 Start: 2888, Stop: 3538, Start Num: 31
Candidate Starts for Marius_6:
(Start: 31 @2888 has 421 MA's), (113, 2996), (142, 3071), (200, 3263),

Gene: Marker_25 Start: 24115, Stop: 24939, Start Num: 48
Candidate Starts for Marker_25:
(22, 24055), (Start: 48 @24115 has 174 MA's), (83, 24163), (104, 24196), (203, 24556),

Gene: Marsha_35 Start: 28838, Stop: 29779, Start Num: 52
Candidate Starts for Marsha_35:
(Start: 52 @28838 has 9 MA's), (83, 28874), (115, 28916), (144, 29003), (153, 29030), (172, 29153), (174, 29159), (212, 29270), (244, 29369), (257, 29435), (307, 29708),

Gene: Martik_24 Start: 24456, Stop: 25280, Start Num: 48
Candidate Starts for Martik_24:
(22, 24396), (Start: 48 @24456 has 174 MA's), (68, 24483), (83, 24504), (104, 24537), (122, 24570), (203, 24897),

Gene: MaryBeth_35 Start: 28196, Stop: 28984, Start Num: 73
Candidate Starts for MaryBeth_35:

(Start: 73 @28196 has 37 MA's), (Start: 76 @28202 has 1 MA's), (100, 28238), (173, 28496), (203, 28601), (213, 28628), (226, 28652), (266, 28829),

Gene: MarysWell_4 Start: 3572, Stop: 4234, Start Num: 31
Candidate Starts for MarysWell_4:
(Start: 31 @3572 has 421 MA's), (Start: 60 @3608 has 2 MA's), (74, 3623), (Start: 84 @3638 has 2 MA's), (128, 3713), (173, 3842), (246, 4064),

Gene: Maselop_24 Start: 12653, Stop: 13330, Start Num: 34
Candidate Starts for Maselop_24:
(Start: 34 @12653 has 5 MA's), (80, 12731), (104, 12764), (115, 12788), (119, 12797), (135, 12848), (139, 12857), (181, 12983), (215, 13091), (295, 13307),

Gene: Mattes_24 Start: 24420, Stop: 25244, Start Num: 48
Candidate Starts for Mattes_24:
(22, 24360), (Start: 48 @24420 has 174 MA's), (83, 24468), (104, 24501), (122, 24534), (144, 24606), (203, 24861),

Gene: Maverick_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Maverick_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Maxo_5 Start: 2723, Stop: 3385, Start Num: 31
Candidate Starts for Maxo_5:
(Start: 31 @2723 has 421 MA's), (Start: 111 @2828 has 1 MA's), (218, 3140), (220, 3143), (297, 3368),

Gene: Mayonnaise_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Mayonnaise_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Mazhar510_5 Start: 2723, Stop: 3385, Start Num: 31
Candidate Starts for Mazhar510_5:
(Start: 31 @2723 has 421 MA's), (Start: 111 @2828 has 1 MA's), (218, 3140), (220, 3143), (297, 3368),

Gene: McFly_8 Start: 4661, Stop: 5359, Start Num: 23
Candidate Starts for McFly_8:
(Start: 23 @4661 has 50 MA's), (239, 5165), (298, 5351),

Gene: McGonagall_17 Start: 12036, Stop: 12680, Start Num: 60
Candidate Starts for McGonagall_17:
(Start: 60 @12036 has 2 MA's), (142, 12207), (221, 12432), (246, 12507), (248, 12513), (251, 12525), (270, 12546), (287, 12612),

Gene: McGuire_36 Start: 28061, Stop: 28864, Start Num: 48
Candidate Starts for McGuire_36:
(Start: 48 @28061 has 174 MA's), (Start: 76 @28097 has 1 MA's), (112, 28139), (144, 28226), (203, 28481), (226, 28532),

Gene: Medindi_24 Start: 24261, Stop: 25085, Start Num: 48
Candidate Starts for Medindi_24:
(22, 24201), (Start: 48 @24261 has 174 MA's), (83, 24309), (104, 24342), (122, 24375), (203, 24702), (226, 24753),

Gene: Medusa_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Medusa_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: MeeZee_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for MeeZee_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: MegTheThird_32 Start: 24063, Stop: 24701, Start Num: 31
Candidate Starts for MegTheThird_32:
(9, 23796), (Start: 31 @24063 has 421 MA's), (59, 24099), (140, 24240), (212, 24474), (295, 24681),

Gene: Melvin_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Melvin_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: MetalQZJ_35 Start: 28196, Stop: 28984, Start Num: 73
Candidate Starts for MetalQZJ_35:
(Start: 73 @28196 has 37 MA's), (Start: 76 @28202 has 1 MA's), (100, 28238), (173, 28496), (203, 28601), (213, 28628), (226, 28652), (266, 28829),

Gene: Methuselah_5 Start: 2720, Stop: 3352, Start Num: 31
Candidate Starts for Methuselah_5:
(Start: 31 @2720 has 421 MA's), (142, 2903), (143, 2906), (148, 2933),

Gene: Micasa_5 Start: 3572, Stop: 4234, Start Num: 31
Candidate Starts for Micasa_5:
(Start: 31 @3572 has 421 MA's), (38, 3584), (Start: 60 @3608 has 2 MA's), (74, 3623), (Start: 84 @3638 has 2 MA's), (128, 3713), (173, 3842), (246, 4064),

Gene: Michley_35 Start: 27900, Stop: 28703, Start Num: 48
Candidate Starts for Michley_35:
(Start: 48 @27900 has 174 MA's), (Start: 76 @27936 has 1 MA's), (112, 27978), (144, 28065), (203, 28320), (226, 28371),

Gene: Microwolf_5 Start: 2899, Stop: 3558, Start Num: 31
Candidate Starts for Microwolf_5:
(Start: 31 @2899 has 421 MA's), (142, 3082), (150, 3115), (176, 3184), (295, 3538),

Gene: Midas2_5 Start: 3571, Stop: 4233, Start Num: 31
Candidate Starts for Midas2_5:
(Start: 31 @3571 has 421 MA's), (38, 3583), (Start: 60 @3607 has 2 MA's), (74, 3622), (Start: 84 @3637 has 2 MA's), (128, 3712), (173, 3841), (246, 4063),

Gene: Miko_9 Start: 5364, Stop: 6041, Start Num: 31
Candidate Starts for Miko_9:
(Start: 31 @5364 has 421 MA's), (Start: 60 @5400 has 2 MA's), (141, 5544), (174, 5640), (220, 5778), (233, 5805),

Gene: Milcery_5 Start: 3602, Stop: 4264, Start Num: 31
Candidate Starts for Milcery_5:
(Start: 31 @3602 has 421 MA's), (38, 3614), (Start: 60 @3638 has 2 MA's), (74, 3653), (Start: 84 @3668 has 2 MA's), (128, 3743), (173, 3872), (246, 4094),

Gene: Millski_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Millski_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: MinecraftSteve_9 Start: 4550, Stop: 5224, Start Num: 51
Candidate Starts for MinecraftSteve_9:
(Start: 51 @4550 has 73 MA's), (106, 4631), (121, 4667), (170, 4814), (189, 4862),

Gene: Minispark_30 Start: 23978, Stop: 24619, Start Num: 31
Candidate Starts for Minispark_30:
(18, 23906), (Start: 31 @23978 has 421 MA's), (Start: 124 @24113 has 1 MA's), (140, 24161), (212, 24392), (295, 24599),

Gene: Miramae_5 Start: 2718, Stop: 3383, Start Num: 31
Candidate Starts for Miramae_5:
(Start: 31 @2718 has 421 MA's), (94, 2799), (171, 2985), (202, 3111),

Gene: Misha28_25 Start: 24136, Stop: 24960, Start Num: 48
Candidate Starts for Misha28_25:
(22, 24076), (Start: 48 @24136 has 174 MA's), (83, 24184), (122, 24250), (203, 24577),

Gene: Misomonster_7 Start: 2719, Stop: 3351, Start Num: 31
Candidate Starts for Misomonster_7:
(Start: 31 @2719 has 421 MA's), (142, 2902), (143, 2905), (148, 2932),

Gene: MissWhite_32 Start: 23704, Stop: 24357, Start Num: 31
Candidate Starts for MissWhite_32:
(Start: 31 @23704 has 421 MA's), (113, 23818), (140, 23887), (146, 23917), (148, 23923), (191, 24031), (240, 24172), (267, 24244),

Gene: MisterCuddles_24 Start: 24239, Stop: 25063, Start Num: 48
Candidate Starts for MisterCuddles_24:
(22, 24179), (Start: 48 @24239 has 174 MA's), (83, 24287), (203, 24680),

Gene: Mkhuseli_36 Start: 28098, Stop: 28901, Start Num: 48
Candidate Starts for Mkhuseli_36:
(Start: 48 @28098 has 174 MA's), (Start: 76 @28134 has 1 MA's), (112, 28176), (144, 28263), (203, 28518), (226, 28569),

Gene: ModicumRichard_26 Start: 23920, Stop: 24630, Start Num: 26
Candidate Starts for ModicumRichard_26:
(4, 23503), (12, 23758), (Start: 26 @23920 has 12 MA's), (32, 23935), (40, 23950), (159, 24202), (230, 24394),

Gene: Modragons_24 Start: 24346, Stop: 25152, Start Num: 51
Candidate Starts for Modragons_24:
(Start: 51 @24346 has 73 MA's), (83, 24394), (104, 24427), (122, 24460), (153, 24544), (157, 24550), (168, 24649), (212, 24796), (244, 24889), (266, 25000),

Gene: MoneyMay_5 Start: 2629, Stop: 3264, Start Num: 31
Candidate Starts for MoneyMay_5:
(Start: 31 @2629 has 421 MA's), (148, 2842),

Gene: Montavir_4 Start: 2629, Stop: 3264, Start Num: 31
Candidate Starts for Montavir_4:
(Start: 31 @2629 has 421 MA's), (148, 2842),

Gene: Moonbeam_25 Start: 24757, Stop: 25740, Start Num: 48
Candidate Starts for Moonbeam_25:
(22, 24697), (Start: 48 @24757 has 174 MA's), (83, 24805), (144, 24943), (153, 24970), (174, 25099), (212, 25225), (307, 25669),

Gene: Moose_35 Start: 28268, Stop: 29056, Start Num: 73
Candidate Starts for Moose_35:
(Start: 73 @28268 has 37 MA's), (Start: 76 @28274 has 1 MA's), (100, 28310), (173, 28568), (203, 28673), (213, 28700), (226, 28724), (266, 28901),

Gene: Morpher26_5 Start: 2733, Stop: 3395, Start Num: 31
Candidate Starts for Morpher26_5:
(Start: 31 @2733 has 421 MA's), (Start: 111 @2838 has 1 MA's), (220, 3153),

Gene: Morrow_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Morrow_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: MossRose_39 Start: 33926, Stop: 34573, Start Num: 47
Candidate Starts for MossRose_39:
(Start: 47 @33926 has 8 MA's), (83, 33983), (106, 34013), (108, 34016), (116, 34034), (176, 34208), (190, 34244), (222, 34340), (296, 34556),

Gene: Mova_25 Start: 24116, Stop: 24940, Start Num: 48
Candidate Starts for Mova_25:
(22, 24056), (Start: 48 @24116 has 174 MA's), (83, 24164), (122, 24230), (203, 24557),

Gene: MrGordo_35 Start: 27763, Stop: 28566, Start Num: 48
Candidate Starts for MrGordo_35:
(Start: 48 @27763 has 174 MA's), (Start: 76 @27799 has 1 MA's), (112, 27841), (144, 27928), (203, 28183), (226, 28234),

Gene: Mryolo_33 Start: 27800, Stop: 28582, Start Num: 76
Candidate Starts for Mryolo_33:
(Start: 73 @27794 has 37 MA's), (Start: 76 @27800 has 1 MA's), (100, 27836), (173, 28094), (203, 28199), (213, 28226), (226, 28250), (266, 28427),

Gene: MuchMore_7 Start: 2890, Stop: 3549, Start Num: 31
Candidate Starts for MuchMore_7:
(Start: 31 @2890 has 421 MA's), (142, 3073), (149, 3103), (150, 3106), (176, 3175), (295, 3529),

Gene: MulchExplorer_26 Start: 25387, Stop: 26211, Start Num: 48
Candidate Starts for MulchExplorer_26:
(22, 25327), (Start: 48 @25387 has 174 MA's), (83, 25435), (122, 25501), (203, 25828), (266, 26056),

Gene: Mulciber_8 Start: 5413, Stop: 6075, Start Num: 31
Candidate Starts for Mulciber_8:
(Start: 31 @5413 has 421 MA's), (Start: 84 @5479 has 2 MA's), (128, 5554), (246, 5905), (266, 5950),

Gene: Munch_8 Start: 5410, Stop: 6072, Start Num: 31
Candidate Starts for Munch_8:
(Start: 31 @5410 has 421 MA's), (Start: 84 @5476 has 2 MA's), (128, 5551), (168, 5662), (246, 5902),

Gene: Mundrea_5 Start: 2713, Stop: 3378, Start Num: 31
Candidate Starts for Mundrea_5:
(Start: 31 @2713 has 421 MA's), (94, 2794), (99, 2800), (140, 2890), (171, 2980), (202, 3106),

Gene: Museum_37 Start: 28107, Stop: 28910, Start Num: 48
Candidate Starts for Museum_37:
(Start: 48 @28107 has 174 MA's), (Start: 76 @28143 has 1 MA's), (112, 28185), (144, 28272), (203, 28527),

Gene: Mutaforma13_24 Start: 24312, Stop: 25115, Start Num: 48
Candidate Starts for Mutaforma13_24:
(22, 24252), (Start: 48 @24312 has 174 MA's), (83, 24360), (104, 24393), (122, 24426), (144, 24498), (153, 24525), (168, 24633), (169, 24639), (174, 24654), (205, 24753), (210, 24765), (235, 24828),

Gene: Mwanjiwa_24 Start: 24250, Stop: 25218, Start Num: 48
Candidate Starts for Mwanjiwa_24:
(22, 24190), (Start: 48 @24250 has 174 MA's), (83, 24298), (104, 24331), (174, 24592),

Gene: MyraDee_5 Start: 2390, Stop: 3028, Start Num: 29
Candidate Starts for MyraDee_5:
(Start: 29 @2390 has 8 MA's), (97, 2477), (103, 2486), (173, 2666),

Gene: Myrna_134 Start: 80964, Stop: 81575, Start Num: 93
Candidate Starts for Myrna_134:
(6, 80451), (Start: 93 @80964 has 2 MA's), (141, 81078), (160, 81147), (211, 81306), (212, 81309), (251, 81408), (279, 81474), (288, 81516), (297, 81558),

Gene: Myxus_8 Start: 5239, Stop: 5868, Start Num: 31
Candidate Starts for Myxus_8:
(Start: 31 @5239 has 421 MA's), (64, 5278), (142, 5419), (148, 5449), (155, 5464),

Gene: NHagos_37 Start: 32544, Stop: 33191, Start Num: 49
Candidate Starts for NHagos_37:
(Start: 49 @32544 has 2 MA's), (83, 32601), (106, 32631), (108, 32634), (116, 32652), (141, 32718), (171, 32808), (189, 32859), (250, 33036), (296, 33174),

Gene: NadineRae_45 Start: 32686, Stop: 33396, Start Num: 21
Candidate Starts for NadineRae_45:
(Start: 21 @32686 has 1 MA's), (110, 32824), (187, 33025),

Gene: Naira_36 Start: 29704, Stop: 30507, Start Num: 48
Candidate Starts for Naira_36:
(Start: 48 @29704 has 174 MA's), (Start: 76 @29740 has 1 MA's), (112, 29782), (203, 30124), (213, 30151), (226, 30175), (232, 30190),

Gene: Naji_35 Start: 24412, Stop: 25083, Start Num: 33
Candidate Starts for Naji_35:

(Start: 33 @24412 has 18 MA's), (99, 24502), (113, 24523), (140, 24592), (148, 24628), (246, 24916), (247, 24919), (285, 25018), (290, 25033),

Gene: NearlyHeadless_5 Start: 3362, Stop: 4021, Start Num: 31
Candidate Starts for NearlyHeadless_5:
(Start: 31 @3362 has 421 MA's), (77, 3419), (Start: 84 @3428 has 2 MA's), (109, 3461),

Gene: Nebkiss_28 Start: 26805, Stop: 27629, Start Num: 48
Candidate Starts for Nebkiss_28:
(22, 26745), (Start: 48 @26805 has 174 MA's), (83, 26853), (104, 26886), (122, 26919), (144, 26991), (203, 27246),

Gene: Nebs_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Nebs_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (231, 3169), (297, 3367),

Gene: Nebulosus_8 Start: 4403, Stop: 5071, Start Num: 39
Candidate Starts for Nebulosus_8:
(Start: 39 @4403 has 13 MA's), (159, 4643), (187, 4709), (230, 4835),

Gene: Neeharika16_8 Start: 4661, Stop: 5359, Start Num: 23
Candidate Starts for Neeharika16_8:
(Start: 23 @4661 has 50 MA's), (239, 5165), (298, 5351),

Gene: Nemo27_5 Start: 2721, Stop: 3383, Start Num: 31
Candidate Starts for Nemo27_5:
(Start: 31 @2721 has 421 MA's), (Start: 111 @2826 has 1 MA's), (218, 3138), (220, 3141), (297, 3366),

Gene: Newrala_8 Start: 4661, Stop: 5359, Start Num: 23
Candidate Starts for Newrala_8:
(Start: 23 @4661 has 50 MA's), (239, 5165), (298, 5351),

Gene: Nhonho_35 Start: 28264, Stop: 29211, Start Num: 48
Candidate Starts for Nhonho_35:
(Start: 48 @28264 has 174 MA's), (83, 28300), (Start: 111 @28342 has 1 MA's), (174, 28585), (211, 28711), (305, 29086),

Gene: NicoleTera_8 Start: 5250, Stop: 5927, Start Num: 31
Candidate Starts for NicoleTera_8:
(Start: 31 @5250 has 421 MA's), (55, 5280), (88, 5322), (140, 5427), (169, 5508), (190, 5568), (263, 5799),

Gene: Nimbo_24 Start: 24268, Stop: 25092, Start Num: 51
Candidate Starts for Nimbo_24:
(22, 24205), (Start: 51 @24268 has 73 MA's), (83, 24316), (203, 24709),

Gene: Nitzel_25 Start: 24998, Stop: 25822, Start Num: 48
Candidate Starts for Nitzel_25:
(22, 24938), (Start: 48 @24998 has 174 MA's), (83, 25046), (104, 25079), (122, 25112), (203, 25439),

Gene: Nivrat_24 Start: 24428, Stop: 25252, Start Num: 48
Candidate Starts for Nivrat_24:

(22, 24368), (Start: 48 @24428 has 174 MA's), (68, 24455), (83, 24476), (104, 24509), (122, 24542), (203, 24869),

Gene: NoPickles_26 Start: 18394, Stop: 19041, Start Num: 51
Candidate Starts for NoPickles_26:
(Start: 51 @18394 has 73 MA's), (95, 18457), (153, 18607), (197, 18745), (242, 18853), (265, 18919),

Gene: Noella_5 Start: 2764, Stop: 3423, Start Num: 31
Candidate Starts for Noella_5:
(Start: 31 @2764 has 421 MA's), (43, 2785), (99, 2851), (140, 2941), (148, 2977), (235, 3223), (269, 3310),

Gene: Noelle_5 Start: 2787, Stop: 3449, Start Num: 31
Candidate Starts for Noelle_5:
(Start: 31 @2787 has 421 MA's), (Start: 111 @2892 has 1 MA's), (218, 3204), (220, 3207), (297, 3432),

Gene: Norbert_4 Start: 2764, Stop: 3423, Start Num: 31
Candidate Starts for Norbert_4:
(Start: 31 @2764 has 421 MA's), (43, 2785), (99, 2851), (140, 2941), (148, 2977), (235, 3223), (269, 3310),

Gene: NormanBulbieJr_24 Start: 24443, Stop: 25267, Start Num: 48
Candidate Starts for NormanBulbieJr_24:
(22, 24383), (Start: 48 @24443 has 174 MA's), (68, 24470), (83, 24491), (104, 24524), (122, 24557), (203, 24884),

Gene: NorthStar_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for NorthStar_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Northrop_5 Start: 2721, Stop: 3383, Start Num: 31
Candidate Starts for Northrop_5:
(Start: 31 @2721 has 421 MA's), (Start: 111 @2826 has 1 MA's), (218, 3138), (220, 3141), (231, 3168), (297, 3366),

Gene: Norz_37 Start: 28914, Stop: 29747, Start Num: 48
Candidate Starts for Norz_37:
(Start: 48 @28914 has 174 MA's), (72, 28950), (98, 28992), (153, 29106), (169, 29220), (174, 29235), (179, 29253), (210, 29364), (243, 29457), (275, 29607), (276, 29616), (280, 29637), (281, 29640),

Gene: NotAPhaseMom_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for NotAPhaseMom_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: NothingSpecial_7 Start: 5206, Stop: 5850, Start Num: 31
Candidate Starts for NothingSpecial_7:
(Start: 31 @5206 has 421 MA's), (Start: 53 @5230 has 6 MA's), (88, 5278), (150, 5422), (234, 5650),

Gene: Noxious_38 Start: 29555, Stop: 30343, Start Num: 73
Candidate Starts for Noxious_38:
(Start: 73 @29555 has 37 MA's), (Start: 76 @29561 has 1 MA's), (100, 29597), (173, 29855), (203, 29960), (213, 29987), (226, 30011), (266, 30188),

Gene: Nyxis_5 Start: 2725, Stop: 3387, Start Num: 31
Candidate Starts for Nyxis_5:
(Start: 31 @2725 has 421 MA's), (Start: 111 @2830 has 1 MA's), (220, 3145), (297, 3370),

Gene: OKCentral2016_5 Start: 2376, Stop: 3164, Start Num: 31
Candidate Starts for OKCentral2016_5:
(Start: 31 @2376 has 421 MA's), (99, 2463), (140, 2553), (161, 2685), (184, 2826), (197, 2877), (198, 2880), (208, 2916), (297, 3150),

Gene: OKaNui_5 Start: 2487, Stop: 3149, Start Num: 31
Candidate Starts for OKaNui_5:
(Start: 31 @2487 has 421 MA's), (Start: 111 @2592 has 1 MA's), (218, 2904), (220, 2907), (297, 3132),

Gene: ObLaDi_26 Start: 23899, Stop: 24609, Start Num: 26
Candidate Starts for ObLaDi_26:
(4, 23482), (12, 23737), (Start: 26 @23899 has 12 MA's), (32, 23914), (40, 23929), (159, 24181), (230, 24373),

Gene: Obama12_5 Start: 2724, Stop: 3389, Start Num: 31
Candidate Starts for Obama12_5:
(Start: 31 @2724 has 421 MA's), (140, 2901), (171, 2991), (202, 3117),

Gene: Octobien14_34 Start: 28125, Stop: 28844, Start Num: 26
Candidate Starts for Octobien14_34:
(Start: 26 @28125 has 12 MA's), (61, 28179), (Start: 73 @28200 has 37 MA's), (129, 28305), (140, 28338), (142, 28344), (168, 28419), (203, 28548), (224, 28587), (252, 28677), (284, 28776), (292, 28818),

Gene: Odin_31 Start: 23199, Stop: 23798, Start Num: 69
Candidate Starts for Odin_31:
(Start: 69 @23199 has 4 MA's), (89, 23232), (140, 23319), (180, 23439), (212, 23556),

Gene: OfUltron_24 Start: 24502, Stop: 25308, Start Num: 51
Candidate Starts for OfUltron_24:
(Start: 51 @24502 has 73 MA's), (83, 24550), (104, 24583), (122, 24616), (153, 24700), (157, 24706), (168, 24805), (212, 24952), (244, 25045), (266, 25156),

Gene: Ohfah_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Ohfah_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Oksu_25 Start: 24347, Stop: 25153, Start Num: 51
Candidate Starts for Oksu_25:
(Start: 51 @24347 has 73 MA's), (83, 24395), (104, 24428), (122, 24461), (153, 24545), (157, 24551), (168, 24650), (212, 24797), (244, 24890), (266, 25001),

Gene: OlanP_5 Start: 3068, Stop: 3718, Start Num: 31
Candidate Starts for OlanP_5:
(Start: 31 @3068 has 421 MA's), (113, 3176), (142, 3251), (200, 3443),

Gene: OldBen_24 Start: 24234, Stop: 25058, Start Num: 48
Candidate Starts for OldBen_24:
(22, 24174), (Start: 48 @24234 has 174 MA's), (83, 24282), (203, 24675),

Gene: Ollie_5 Start: 2809, Stop: 3468, Start Num: 31
Candidate Starts for Ollie_5:
(Start: 31 @2809 has 421 MA's), (99, 2896), (Start: 124 @2938 has 1 MA's), (142, 2992), (171, 3076), (176, 3094),

Gene: OlympiaSaint_24 Start: 24643, Stop: 25467, Start Num: 48
Candidate Starts for OlympiaSaint_24:
(Start: 48 @24643 has 174 MA's), (83, 24691), (104, 24724), (122, 24757), (144, 24829), (203, 25084), (226, 25135),

Gene: Onglai_7 Start: 3560, Stop: 4231, Start Num: 31
Candidate Starts for Onglai_7:
(Start: 31 @3560 has 421 MA's), (140, 3734), (148, 3770), (220, 3983), (282, 4154),

Gene: Oofda_8 Start: 4406, Stop: 5080, Start Num: 51
Candidate Starts for Oofda_8:
(Start: 51 @4406 has 73 MA's), (106, 4487), (121, 4523), (170, 4670), (189, 4718),

Gene: Optimus_43 Start: 37661, Stop: 38467, Start Num: 51
Candidate Starts for Optimus_43:
(22, 37601), (Start: 51 @37661 has 73 MA's), (83, 37709), (104, 37742), (122, 37775), (130, 37799), (131, 37802), (210, 38105), (212, 38111), (266, 38315), (304, 38462),

Gene: Orange_8 Start: 5410, Stop: 6072, Start Num: 31
Candidate Starts for Orange_8:
(Start: 31 @5410 has 421 MA's), (Start: 84 @5476 has 2 MA's), (128, 5551), (168, 5662), (246, 5902), (266, 5947),

Gene: OwlsT2W_26 Start: 24714, Stop: 25538, Start Num: 48
Candidate Starts for OwlsT2W_26:
(22, 24654), (Start: 48 @24714 has 174 MA's), (83, 24762), (122, 24828), (203, 25155),

Gene: P28Green_5 Start: 2630, Stop: 3265, Start Num: 31
Candidate Starts for P28Green_5:
(Start: 31 @2630 has 421 MA's), (148, 2843),

Gene: PGHhamlin_7 Start: 2890, Stop: 3549, Start Num: 31
Candidate Starts for PGHhamlin_7:
(Start: 31 @2890 has 421 MA's), (142, 3073), (150, 3106), (176, 3175), (295, 3529),

Gene: PHappiness_24 Start: 24242, Stop: 25066, Start Num: 48
Candidate Starts for PHappiness_24:
(22, 24182), (Start: 48 @24242 has 174 MA's), (83, 24290), (122, 24356), (203, 24683),

Gene: PMC_24 Start: 24250, Stop: 25074, Start Num: 48
Candidate Starts for PMC_24:
(22, 24190), (Start: 48 @24250 has 174 MA's), (83, 24298), (122, 24364), (203, 24691),

Gene: Pacc40_24 Start: 24432, Stop: 25256, Start Num: 48
Candidate Starts for Pacc40_24:
(22, 24372), (Start: 48 @24432 has 174 MA's), (83, 24480), (122, 24546), (203, 24873),

Gene: PackMan_8 Start: 5239, Stop: 5868, Start Num: 31
Candidate Starts for PackMan_8:
(Start: 31 @5239 has 421 MA's), (64, 5278), (142, 5419), (148, 5449), (155, 5464),

Gene: PainterBoy_8 Start: 4875, Stop: 5543, Start Num: 25
Candidate Starts for PainterBoy_8:
(Start: 25 @4875 has 3 MA's), (77, 4932), (103, 4968), (180, 5169), (246, 5391),

Gene: Palestino_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Palestino_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Panamaxus_5 Start: 2764, Stop: 3423, Start Num: 31
Candidate Starts for Panamaxus_5:
(Start: 31 @2764 has 421 MA's), (43, 2785), (99, 2851), (140, 2941), (148, 2977), (235, 3223), (269, 3310),

Gene: Papez_37 Start: 29749, Stop: 30537, Start Num: 73
Candidate Starts for Papez_37:
(Start: 73 @29749 has 37 MA's), (Start: 76 @29755 has 1 MA's), (100, 29791), (173, 30049), (203, 30154), (213, 30181), (226, 30205), (266, 30382),

Gene: Pari_36 Start: 27780, Stop: 28583, Start Num: 48
Candidate Starts for Pari_36:
(Start: 48 @27780 has 174 MA's), (Start: 76 @27816 has 1 MA's), (112, 27858), (144, 27945), (203, 28200),

Gene: Parliament_34 Start: 28115, Stop: 28948, Start Num: 48
Candidate Starts for Parliament_34:
(Start: 48 @28115 has 174 MA's), (72, 28151), (98, 28193), (153, 28307), (169, 28421), (174, 28436), (179, 28454), (210, 28565), (243, 28658), (275, 28808), (276, 28817), (280, 28838), (281, 28841),

Gene: PascalRango_36 Start: 28083, Stop: 28892, Start Num: 48
Candidate Starts for PascalRango_36:
(Start: 48 @28083 has 174 MA's), (Start: 76 @28119 has 1 MA's), (112, 28161), (144, 28248), (203, 28503), (226, 28554),

Gene: PattyP_37 Start: 28316, Stop: 29119, Start Num: 48
Candidate Starts for PattyP_37:
(Start: 48 @28316 has 174 MA's), (Start: 76 @28352 has 1 MA's), (112, 28394), (144, 28481), (203, 28736),

Gene: Pawn_5 Start: 2888, Stop: 3538, Start Num: 31
Candidate Starts for Pawn_5:
(Start: 31 @2888 has 421 MA's), (113, 2996), (142, 3071), (200, 3263),

Gene: Payneful_35 Start: 27564, Stop: 28526, Start Num: 52
Candidate Starts for Payneful_35:
(Start: 52 @27564 has 9 MA's), (83, 27600), (115, 27642), (153, 27756), (174, 27885), (212, 28011), (307, 28455),

Gene: Peaches_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Peaches_5:

(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Pembroke_5 Start: 2890, Stop: 3558, Start Num: 31
Candidate Starts for Pembroke_5:
(Start: 31 @2890 has 421 MA's), (142, 3073), (150, 3106), (176, 3175), (295, 3538),

Gene: Penny1_5 Start: 2629, Stop: 3264, Start Num: 31
Candidate Starts for Penny1_5:
(Start: 31 @2629 has 421 MA's), (148, 2842),

Gene: Perkunas_28 Start: 19169, Stop: 19819, Start Num: 51
Candidate Starts for Perkunas_28:
(Start: 51 @19169 has 73 MA's), (106, 19253), (204, 19556), (210, 19571), (288, 19766), (296, 19802),

Gene: Perplexer_5 Start: 2733, Stop: 3395, Start Num: 31
Candidate Starts for Perplexer_5:
(Start: 31 @2733 has 421 MA's), (Start: 111 @2838 has 1 MA's), (220, 3153),

Gene: PeterPeter_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for PeterPeter_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Petersenfast_8 Start: 5413, Stop: 6075, Start Num: 31
Candidate Starts for Petersenfast_8:
(Start: 31 @5413 has 421 MA's), (Start: 84 @5479 has 2 MA's), (128, 5554), (168, 5665), (246, 5905), (266, 5950),

Gene: Peterson_38 Start: 29965, Stop: 30759, Start Num: 73
Candidate Starts for Peterson_38:
(Start: 73 @29965 has 37 MA's),

Gene: PetiteSangsue_5 Start: 2733, Stop: 3395, Start Num: 31
Candidate Starts for PetiteSangsue_5:
(Start: 31 @2733 has 421 MA's), (Start: 111 @2838 has 1 MA's), (220, 3153),

Gene: Petito_27 Start: 18884, Stop: 19531, Start Num: 50
Candidate Starts for Petito_27:
(Start: 50 @18884 has 1 MA's), (56, 18896), (Start: 87 @18941 has 1 MA's), (117, 18989), (189, 19193), (251, 19376), (297, 19517),

Gene: Petp2012_37 Start: 28987, Stop: 29790, Start Num: 48
Candidate Starts for Petp2012_37:
(Start: 48 @28987 has 174 MA's), (Start: 76 @29023 has 1 MA's), (112, 29065), (144, 29152), (203, 29407),

Gene: PetterN_5 Start: 3407, Stop: 4048, Start Num: 51
Candidate Starts for PetterN_5:
(Start: 51 @3407 has 73 MA's), (71, 3443), (85, 3464), (106, 3491), (151, 3623), (181, 3704), (189, 3719), (292, 4025),

Gene: Ph8s_33 Start: 23091, Stop: 23747, Start Num: 33
Candidate Starts for Ph8s_33:

(8, 22788), (Start: 33 @23091 has 18 MA's), (Start: 41 @23106 has 6 MA's), (97, 23181), (113, 23205), (Start: 124 @23226 has 1 MA's), (140, 23274), (142, 23280), (148, 23310), (170, 23361), (180, 23394), (191, 23421), (195, 23454), (220, 23520), (235, 23550), (240, 23568),

Gene: Phabba_139 Start: 79960, Stop: 80571, Start Num: 93
Candidate Starts for Phabba_139:
(6, 79447), (Start: 93 @79960 has 2 MA's), (141, 80074), (189, 80215), (191, 80221), (203, 80281), (211, 80302), (212, 80305), (297, 80554),

Gene: Phacado_5 Start: 2721, Stop: 3383, Start Num: 31
Candidate Starts for Phacado_5:
(Start: 31 @2721 has 421 MA's), (Start: 111 @2826 has 1 MA's), (218, 3138), (220, 3141), (297, 3366),

Gene: Phaded_8 Start: 5071, Stop: 5733, Start Num: 31
Candidate Starts for Phaded_8:
(Start: 31 @5071 has 421 MA's), (94, 5152), (171, 5338), (202, 5464), (297, 5716),

Gene: Phaeder_8 Start: 5239, Stop: 5868, Start Num: 31
Candidate Starts for Phaeder_8:
(Start: 31 @5239 has 421 MA's), (64, 5278), (142, 5419), (148, 5449), (155, 5464),

Gene: Phantastic_5 Start: 2835, Stop: 3479, Start Num: 31
Candidate Starts for Phantastic_5:
(Start: 31 @2835 has 421 MA's), (74, 2886), (97, 2919), (142, 3018), (191, 3159), (246, 3324),

Gene: Phasih_25 Start: 24806, Stop: 25630, Start Num: 48
Candidate Starts for Phasih_25:
(Start: 48 @24806 has 174 MA's), (83, 24854), (104, 24887), (122, 24920), (203, 25247), (266, 25475),

Gene: Phatniss_25 Start: 24767, Stop: 25591, Start Num: 48
Candidate Starts for Phatniss_25:
(22, 24707), (Start: 48 @24767 has 174 MA's), (83, 24815), (104, 24848), (122, 24881), (203, 25208),

Gene: Phayeta_34 Start: 32624, Stop: 33289, Start Num: 31
Candidate Starts for Phayeta_34:
(Start: 31 @32624 has 421 MA's), (37, 32636), (57, 32660), (88, 32708), (91, 32714), (96, 32720), (101, 32726), (113, 32750), (142, 32825), (148, 32855), (173, 32915), (176, 32927), (181, 32945), (209, 33044), (214, 33047), (250, 33152), (252, 33158), (271, 33176), (294, 33263),

Gene: Phelipe_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Phelipe_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: PherrisBueller_36 Start: 27905, Stop: 28693, Start Num: 73
Candidate Starts for PherrisBueller_36:
(Start: 73 @27905 has 37 MA's), (Start: 76 @27911 has 1 MA's), (100, 27947), (173, 28205), (203, 28310), (226, 28361), (266, 28538),

Gene: PhesterPhotato_24 Start: 24286, Stop: 25092, Start Num: 51
Candidate Starts for PhesterPhotato_24:
(22, 24226), (Start: 51 @24286 has 73 MA's), (83, 24334), (131, 24427), (212, 24736), (244, 24829), (266, 24940), (304, 25087),

Gene: Phighter1804_5 Start: 2721, Stop: 3386, Start Num: 31
Candidate Starts for Phighter1804_5:
(Start: 31 @2721 has 421 MA's), (94, 2802), (99, 2808), (171, 2988), (202, 3114),

Gene: Phillis_5 Start: 3347, Stop: 4006, Start Num: 31
Candidate Starts for Phillis_5:
(Start: 31 @3347 has 421 MA's), (77, 3404), (109, 3446), (250, 3863),

Gene: Philus_24 Start: 24266, Stop: 25090, Start Num: 48
Candidate Starts for Philus_24:
(22, 24206), (Start: 48 @24266 has 174 MA's), (83, 24314), (104, 24347), (122, 24380), (144, 24452), (203, 24707),

Gene: PhishRPhriends_5 Start: 2400, Stop: 3035, Start Num: 31
Candidate Starts for PhishRPhriends_5:
(Start: 31 @2400 has 421 MA's), (136, 2565), (139, 2571), (148, 2613), (176, 2685), (182, 2706), (225, 2808),

Gene: Phlei_5 Start: 5021, Stop: 5680, Start Num: 37
Candidate Starts for Phlei_5:
(37, 5021),

Gene: Phlorence_5 Start: 3728, Stop: 4375, Start Num: 41
Candidate Starts for Phlorence_5:
(Start: 31 @3710 has 421 MA's), (Start: 41 @3728 has 6 MA's), (Start: 84 @3776 has 2 MA's), (99, 3797), (142, 3893),

Gene: Phoebe_5 Start: 2629, Stop: 3264, Start Num: 31
Candidate Starts for Phoebe_5:
(Start: 31 @2629 has 421 MA's), (148, 2842),

Gene: Phonnegut_8 Start: 5227, Stop: 5898, Start Num: 31
Candidate Starts for Phonnegut_8:
(Start: 31 @5227 has 421 MA's), (140, 5401), (148, 5437), (220, 5650), (282, 5821),

Gene: Phontbonne_5 Start: 2720, Stop: 3382, Start Num: 31
Candidate Starts for Phontbonne_5:
(Start: 31 @2720 has 421 MA's), (Start: 111 @2825 has 1 MA's), (220, 3140), (297, 3365),

Gene: Phoxy_5 Start: 2720, Stop: 3352, Start Num: 31
Candidate Starts for Phoxy_5:
(Start: 31 @2720 has 421 MA's), (142, 2903), (143, 2906), (148, 2933),

Gene: Phranny_6 Start: 2888, Stop: 3535, Start Num: 31
Candidate Starts for Phranny_6:
(Start: 31 @2888 has 421 MA's), (113, 2996), (142, 3071), (150, 3104),

Gene: PickleBack_5 Start: 3447, Stop: 4088, Start Num: 51
Candidate Starts for PickleBack_5:
(Start: 51 @3447 has 73 MA's), (117, 3555), (139, 3615), (151, 3663), (156, 3669), (171, 3708), (187, 3753), (189, 3759),

Gene: PinkPlastic_34 Start: 27834, Stop: 28637, Start Num: 48

Candidate Starts for PinkPlastic_34:
(Start: 48 @27834 has 174 MA's), (Start: 76 @27870 has 1 MA's), (112, 27912), (144, 27999), (203, 28254), (226, 28305),

Gene: Pioneer_8 Start: 5227, Stop: 5898, Start Num: 31
Candidate Starts for Pioneer_8:
(Start: 31 @5227 has 421 MA's), (140, 5401), (148, 5437), (220, 5650), (282, 5821),

Gene: Pipcraft_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Pipcraft_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Piper2020_26 Start: 24860, Stop: 25684, Start Num: 48
Candidate Starts for Piper2020_26:
(22, 24800), (Start: 48 @24860 has 174 MA's), (83, 24908), (122, 24974), (203, 25301),

Gene: Pippin_37 Start: 28398, Stop: 29201, Start Num: 48
Candidate Starts for Pippin_37:
(Start: 48 @28398 has 174 MA's), (Start: 76 @28434 has 1 MA's), (112, 28476), (144, 28563), (203, 28818), (226, 28869),

Gene: Pistachio_5 Start: 2377, Stop: 3027, Start Num: 31
Candidate Starts for Pistachio_5:
(Start: 31 @2377 has 421 MA's), (171, 2644), (295, 3007),

Gene: Plumbus_25 Start: 24094, Stop: 24918, Start Num: 48
Candidate Starts for Plumbus_25:
(22, 24034), (Start: 48 @24094 has 174 MA's), (68, 24121), (83, 24142), (104, 24175), (122, 24208), (203, 24535),

Gene: Pmask_8 Start: 4661, Stop: 5359, Start Num: 23
Candidate Starts for Pmask_8:
(Start: 23 @4661 has 50 MA's), (239, 5165), (298, 5351),

Gene: Pocahontas_5 Start: 2764, Stop: 3423, Start Num: 31
Candidate Starts for Pocahontas_5:
(Start: 31 @2764 has 421 MA's), (43, 2785), (99, 2851), (140, 2941), (148, 2977), (235, 3223), (269, 3310),

Gene: Poenanya_24 Start: 24402, Stop: 25211, Start Num: 51
Candidate Starts for Poenanya_24:
(22, 24342), (Start: 51 @24402 has 73 MA's), (83, 24450), (104, 24483), (122, 24516), (131, 24543), (244, 24945), (266, 25056),

Gene: Polka14_25 Start: 24804, Stop: 25628, Start Num: 48
Candidate Starts for Polka14_25:
(22, 24744), (Start: 48 @24804 has 174 MA's), (83, 24852), (104, 24885), (122, 24918), (203, 25245),

Gene: Polo2Bam_26 Start: 24314, Stop: 25024, Start Num: 48
Candidate Starts for Polo2Bam_26:
(22, 24254), (Start: 48 @24314 has 174 MA's), (83, 24362), (104, 24395), (122, 24428), (174, 24656),

Gene: Polymorphads_5 Start: 2722, Stop: 3384, Start Num: 31

Candidate Starts for Polymorphads_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Polyphemus_8 Start: 4663, Stop: 5361, Start Num: 23
Candidate Starts for Polyphemus_8:
(Start: 23 @4663 has 50 MA's), (239, 5167), (298, 5353),

Gene: Polyyuki_24 Start: 12645, Stop: 13322, Start Num: 34
Candidate Starts for Polyyuki_24:
(Start: 34 @12645 has 5 MA's), (80, 12723), (104, 12756), (115, 12780), (119, 12789), (135, 12840), (139, 12849), (181, 12975), (215, 13083), (295, 13299),

Gene: Pomar16_35 Start: 24453, Stop: 25124, Start Num: 33
Candidate Starts for Pomar16_35:
(Start: 33 @24453 has 18 MA's), (99, 24543), (113, 24564), (140, 24633), (148, 24669), (169, 24717), (246, 24957), (247, 24960), (285, 25059), (290, 25074),

Gene: Popcicle_5 Start: 2764, Stop: 3423, Start Num: 31
Candidate Starts for Popcicle_5:
(Start: 31 @2764 has 421 MA's), (43, 2785), (99, 2851), (140, 2941), (148, 2977), (235, 3223), (269, 3310),

Gene: PotatoSplit_6 Start: 2629, Stop: 3264, Start Num: 31
Candidate Starts for PotatoSplit_6:
(Start: 31 @2629 has 421 MA's), (148, 2842),

Gene: Priamo_8 Start: 4676, Stop: 5344, Start Num: 23
Candidate Starts for Priamo_8:
(Start: 23 @4676 has 50 MA's), (207, 5087), (239, 5150), (298, 5336),

Gene: Prinashe11_5 Start: 3571, Stop: 4233, Start Num: 31
Candidate Starts for Prinashe11_5:
(Start: 31 @3571 has 421 MA's), (38, 3583), (Start: 60 @3607 has 2 MA's), (74, 3622), (Start: 84 @3637 has 2 MA's), (128, 3712), (173, 3841), (246, 4063),

Gene: Priscilla_24 Start: 24457, Stop: 25281, Start Num: 48
Candidate Starts for Priscilla_24:
(Start: 48 @24457 has 174 MA's), (83, 24505), (104, 24538), (122, 24571), (144, 24643), (203, 24898), (226, 24949),

Gene: Priya_8 Start: 5225, Stop: 5896, Start Num: 31
Candidate Starts for Priya_8:
(Start: 31 @5225 has 421 MA's), (148, 5435), (176, 5507), (220, 5648), (253, 5741), (282, 5819), (295, 5873),

Gene: Prudy_8 Start: 5267, Stop: 5929, Start Num: 31
Candidate Starts for Prudy_8:
(Start: 31 @5267 has 421 MA's), (94, 5348), (Start: 111 @5372 has 1 MA's), (169, 5522), (300, 5924),

Gene: Pukovnik_8 Start: 5014, Stop: 5685, Start Num: 31
Candidate Starts for Pukovnik_8:
(Start: 31 @5014 has 421 MA's), (140, 5188), (148, 5224), (191, 5335), (248, 5515),

Gene: Pumbaa_5 Start: 2720, Stop: 3385, Start Num: 31
Candidate Starts for Pumbaa_5:
(Start: 31 @2720 has 421 MA's), (94, 2801), (99, 2807), (171, 2987), (202, 3113),

Gene: Puppet_35 Start: 28103, Stop: 28891, Start Num: 73
Candidate Starts for Puppet_35:
(Start: 73 @28103 has 37 MA's), (Start: 76 @28109 has 1 MA's), (100, 28145), (173, 28403), (203, 28508), (213, 28535), (226, 28559), (266, 28736),

Gene: Puppy_5 Start: 2449, Stop: 3099, Start Num: 31
Candidate Starts for Puppy_5:
(Start: 31 @2449 has 421 MA's), (142, 2632), (171, 2716),

Gene: PurpleHaze_5 Start: 2887, Stop: 3537, Start Num: 31
Candidate Starts for PurpleHaze_5:
(Start: 31 @2887 has 421 MA's), (113, 2995), (142, 3070), (200, 3262),

Gene: Qobbit_8 Start: 5224, Stop: 5895, Start Num: 31
Candidate Starts for Qobbit_8:
(Start: 31 @5224 has 421 MA's), (140, 5398), (148, 5434), (220, 5647), (282, 5818), (295, 5872),

Gene: QuickMath_25 Start: 25611, Stop: 26435, Start Num: 48
Candidate Starts for QuickMath_25:
(22, 25551), (Start: 48 @25611 has 174 MA's), (83, 25659), (122, 25725), (203, 26052), (266, 26280),

Gene: Quico_25 Start: 24087, Stop: 24911, Start Num: 48
Candidate Starts for Quico_25:
(Start: 48 @24087 has 174 MA's), (83, 24135), (122, 24201), (203, 24528),

Gene: QuinnKiro_4 Start: 2764, Stop: 3423, Start Num: 31
Candidate Starts for QuinnKiro_4:
(Start: 31 @2764 has 421 MA's), (43, 2785), (99, 2851), (140, 2941), (148, 2977), (235, 3223), (269, 3310),

Gene: Quokka_30 Start: 23397, Stop: 23996, Start Num: 69
Candidate Starts for Quokka_30:
(Start: 69 @23397 has 4 MA's), (89, 23430), (113, 23448), (140, 23517), (169, 23601), (180, 23637), (212, 23754), (283, 23925),

Gene: Rachaly_9 Start: 5384, Stop: 6061, Start Num: 31
Candidate Starts for Rachaly_9:
(Start: 31 @5384 has 421 MA's), (Start: 60 @5420 has 2 MA's), (141, 5564), (174, 5660), (191, 5708), (220, 5798), (233, 5825),

Gene: Rahalelujah_31 Start: 23978, Stop: 24619, Start Num: 31
Candidate Starts for Rahalelujah_31:
(18, 23906), (Start: 31 @23978 has 421 MA's), (Start: 124 @24113 has 1 MA's), (140, 24161), (212, 24392), (295, 24599),

Gene: Ramsey_25 Start: 24297, Stop: 25121, Start Num: 48
Candidate Starts for Ramsey_25:
(22, 24237), (Start: 48 @24297 has 174 MA's), (83, 24345), (104, 24378), (122, 24411), (203, 24738),

Gene: Ravana_8 Start: 4403, Stop: 5077, Start Num: 51
Candidate Starts for Ravana_8:
(Start: 51 @4403 has 73 MA's), (106, 4484), (121, 4520), (170, 4667), (189, 4715),

Gene: ReMo_8 Start: 4403, Stop: 5071, Start Num: 39
Candidate Starts for ReMo_8:
(Start: 39 @4403 has 13 MA's), (159, 4643), (187, 4709), (230, 4835),

Gene: Reba_6 Start: 2561, Stop: 3208, Start Num: 31
Candidate Starts for Reba_6:
(Start: 31 @2561 has 421 MA's), (113, 2669), (142, 2744), (150, 2777),

Gene: Rebeuca_6 Start: 3002, Stop: 3649, Start Num: 31
Candidate Starts for Rebeuca_6:
(Start: 31 @3002 has 421 MA's), (113, 3110), (140, 3179), (171, 3269), (197, 3362),

Gene: RedBird_24 Start: 24225, Stop: 25031, Start Num: 51
Candidate Starts for RedBird_24:
(22, 24165), (Start: 51 @24225 has 73 MA's), (83, 24273), (122, 24339), (130, 24363), (131, 24366), (210, 24669), (212, 24675), (266, 24879), (304, 25026),

Gene: RedRock_8 Start: 5246, Stop: 5983, Start Num: 31
Candidate Starts for RedRock_8:
(Start: 31 @5246 has 421 MA's), (190, 5567), (240, 5717), (256, 5780),

Gene: Relief_5 Start: 2723, Stop: 3385, Start Num: 31
Candidate Starts for Relief_5:
(Start: 31 @2723 has 421 MA's), (Start: 111 @2828 has 1 MA's), (190, 3044), (218, 3140), (220, 3143), (297, 3368),

Gene: Remus_8 Start: 4403, Stop: 5071, Start Num: 39
Candidate Starts for Remus_8:
(Start: 39 @4403 has 13 MA's), (159, 4643), (187, 4709), (230, 4835),

Gene: ResDef_5 Start: 2764, Stop: 3423, Start Num: 31
Candidate Starts for ResDef_5:
(Start: 31 @2764 has 421 MA's), (43, 2785), (99, 2851), (140, 2941), (148, 2977), (235, 3223), (269, 3310),

Gene: RhynO_5 Start: 2841, Stop: 3488, Start Num: 31
Candidate Starts for RhynO_5:
(Start: 31 @2841 has 421 MA's), (Start: 53 @2865 has 6 MA's), (99, 2928), (140, 3018), (171, 3108), (197, 3201),

Gene: RidgeCB_35 Start: 27836, Stop: 28624, Start Num: 73
Candidate Starts for RidgeCB_35:
(Start: 73 @27836 has 37 MA's), (Start: 76 @27842 has 1 MA's), (100, 27878), (173, 28136), (203, 28241), (213, 28268), (226, 28292), (266, 28469),

Gene: Rifter_8 Start: 4654, Stop: 5352, Start Num: 23
Candidate Starts for Rifter_8:
(Start: 23 @4654 has 50 MA's), (138, 4855), (239, 5158), (298, 5344),

Gene: Rita_24 Start: 24276, Stop: 25085, Start Num: 51
Candidate Starts for Rita_24:
(22, 24216), (Start: 51 @24276 has 73 MA's), (83, 24324), (122, 24390), (131, 24417), (153, 24474), (157, 24480), (168, 24579), (244, 24819), (266, 24930),

Gene: RitaG_24 Start: 24488, Stop: 25312, Start Num: 48
Candidate Starts for RitaG_24:
(22, 24428), (Start: 48 @24488 has 174 MA's), (83, 24536), (203, 24929),

Gene: Roary_5 Start: 3347, Stop: 4006, Start Num: 31
Candidate Starts for Roary_5:
(Start: 31 @3347 has 421 MA's), (77, 3404), (109, 3446), (250, 3863),

Gene: RockieBear_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for RockieBear_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Rockne_24 Start: 24250, Stop: 25074, Start Num: 48
Candidate Starts for Rockne_24:
(22, 24190), (Start: 48 @24250 has 174 MA's), (83, 24298), (122, 24364), (203, 24691),

Gene: Rocksand_5 Start: 2721, Stop: 3383, Start Num: 31
Candidate Starts for Rocksand_5:
(Start: 31 @2721 has 421 MA's), (Start: 111 @2826 has 1 MA's), (218, 3138), (220, 3141), (231, 3168), (297, 3366),

Gene: Rockstar_5 Start: 2748, Stop: 3383, Start Num: 31
Candidate Starts for Rockstar_5:
(Start: 31 @2748 has 421 MA's), (142, 2931), (148, 2961), (178, 3039), (191, 3072),

Gene: RockyHorror_25 Start: 24122, Stop: 24946, Start Num: 48
Candidate Starts for RockyHorror_25:
(22, 24062), (Start: 48 @24122 has 174 MA's), (83, 24170), (122, 24236), (203, 24563), (302, 24929),

Gene: Rohr_36 Start: 28253, Stop: 29056, Start Num: 48
Candidate Starts for Rohr_36:
(Start: 48 @28253 has 174 MA's), (Start: 76 @28289 has 1 MA's), (112, 28331), (144, 28418), (203, 28673),

Gene: Roimos_5 Start: 2825, Stop: 3475, Start Num: 31
Candidate Starts for Roimos_5:
(Start: 31 @2825 has 421 MA's), (140, 3002), (171, 3092), (197, 3188),

Gene: Roksolana_8 Start: 4661, Stop: 5359, Start Num: 23
Candidate Starts for Roksolana_8:
(Start: 23 @4661 has 50 MA's), (239, 5165), (298, 5351),

Gene: Romney_5 Start: 2721, Stop: 3383, Start Num: 31
Candidate Starts for Romney_5:
(Start: 31 @2721 has 421 MA's), (Start: 111 @2826 has 1 MA's), (218, 3138), (220, 3141), (297, 3366),

Gene: Roosevelt_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Roosevelt_5:

(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Rosa24_4 Start: 2720, Stop: 3385, Start Num: 31
Candidate Starts for Rosa24_4:
(Start: 31 @2720 has 421 MA's), (140, 2897), (171, 2987), (202, 3113),

Gene: Rosalind_8 Start: 4550, Stop: 5224, Start Num: 51
Candidate Starts for Rosalind_8:
(Start: 51 @4550 has 73 MA's), (106, 4631), (121, 4667), (170, 4814), (189, 4862),

Gene: Rowdy_6 Start: 2752, Stop: 3399, Start Num: 31
Candidate Starts for Rowdy_6:
(Start: 31 @2752 has 421 MA's), (Start: 53 @2776 has 6 MA's), (99, 2839), (140, 2929), (171, 3019), (197, 3112),

Gene: Royals2015_24 Start: 24344, Stop: 25168, Start Num: 48
Candidate Starts for Royals2015_24:
(22, 24284), (Start: 48 @24344 has 174 MA's), (83, 24392), (104, 24425), (122, 24458), (194, 24740), (203, 24785), (226, 24836), (266, 25013),

Gene: Ruby_24 Start: 24239, Stop: 25063, Start Num: 48
Candidate Starts for Ruby_24:
(22, 24179), (Start: 48 @24239 has 174 MA's), (83, 24287), (203, 24680),

Gene: Rufus_36 Start: 28440, Stop: 29189, Start Num: 52
Candidate Starts for Rufus_36:
(Start: 52 @28440 has 9 MA's), (83, 28476), (Start: 111 @28518 has 1 MA's), (153, 28632), (165, 28731), (169, 28746), (192, 28806), (244, 28977), (258, 29046),

Gene: Ruin_5 Start: 2721, Stop: 3383, Start Num: 31
Candidate Starts for Ruin_5:
(Start: 31 @2721 has 421 MA's), (Start: 111 @2826 has 1 MA's), (218, 3138), (220, 3141), (297, 3366),

Gene: Rummer_5 Start: 2720, Stop: 3352, Start Num: 31
Candidate Starts for Rummer_5:
(Start: 31 @2720 has 421 MA's), (142, 2903), (143, 2906), (148, 2933),

Gene: Ruotula_35 Start: 28645, Stop: 29577, Start Num: 52
Candidate Starts for Ruotula_35:
(Start: 52 @28645 has 9 MA's), (83, 28681), (Start: 111 @28723 has 1 MA's), (144, 28810), (153, 28837), (174, 28966), (179, 28984), (185, 28996), (201, 29062), (255, 29227), (258, 29251), (309, 29557),

Gene: RyeScarlet_8 Start: 5230, Stop: 5901, Start Num: 31
Candidate Starts for RyeScarlet_8:
(Start: 31 @5230 has 421 MA's), (140, 5404), (148, 5440), (220, 5653), (282, 5824),

Gene: Saal_24 Start: 24244, Stop: 25068, Start Num: 48
Candidate Starts for Saal_24:
(22, 24184), (Start: 48 @24244 has 174 MA's), (83, 24292), (104, 24325), (122, 24358), (144, 24430), (203, 24685),

Gene: Sabertooth_5 Start: 2722, Stop: 3384, Start Num: 31

Candidate Starts for Sabertooth_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Sabia_5 Start: 2891, Stop: 3550, Start Num: 31
Candidate Starts for Sabia_5:
(Start: 31 @2891 has 421 MA's), (Start: 124 @3020 has 1 MA's), (142, 3074), (150, 3107), (176, 3176), (295, 3530),

Gene: Sabinator_5 Start: 2629, Stop: 3264, Start Num: 31
Candidate Starts for Sabinator_5:
(Start: 31 @2629 has 421 MA's), (148, 2842),

Gene: Sachima_8 Start: 5239, Stop: 5868, Start Num: 31
Candidate Starts for Sachima_8:
(Start: 31 @5239 has 421 MA's), (64, 5278), (142, 5419), (148, 5449), (155, 5464),

Gene: Sadboi_34 Start: 30140, Stop: 30934, Start Num: 86
Candidate Starts for Sadboi_34:
(37, 30062), (44, 30074), (46, 30077), (Start: 86 @30140 has 1 MA's), (103, 30167), (126, 30227), (154, 30329), (168, 30392), (213, 30563), (265, 30797),

Gene: Saintus_5 Start: 3362, Stop: 4021, Start Num: 31
Candidate Starts for Saintus_5:
(Start: 31 @3362 has 421 MA's), (77, 3419), (Start: 84 @3428 has 2 MA's), (109, 3461), (250, 3878),

Gene: Salz_8 Start: 5410, Stop: 6072, Start Num: 31
Candidate Starts for Salz_8:
(Start: 31 @5410 has 421 MA's), (Start: 84 @5476 has 2 MA's), (128, 5551), (246, 5902), (266, 5947),

Gene: Saskia_8 Start: 5413, Stop: 6075, Start Num: 31
Candidate Starts for Saskia_8:
(Start: 31 @5413 has 421 MA's), (Start: 84 @5479 has 2 MA's), (128, 5554), (168, 5665), (246, 5905), (266, 5950),

Gene: Sassafras_24 Start: 24395, Stop: 25219, Start Num: 48
Candidate Starts for Sassafras_24:
(22, 24335), (Start: 48 @24395 has 174 MA's), (83, 24443), (203, 24836),

Gene: SaturnRing_4 Start: 2830, Stop: 3480, Start Num: 31
Candidate Starts for SaturnRing_4:
(Start: 31 @2830 has 421 MA's), (171, 3097), (295, 3460),

Gene: Scamp_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Scamp_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Scherzo_8 Start: 5227, Stop: 5898, Start Num: 31
Candidate Starts for Scherzo_8:
(Start: 31 @5227 has 421 MA's), (140, 5401), (148, 5437), (220, 5650), (282, 5821),

Gene: ScoobyDoobyDoo_130 Start: 79579, Stop: 80151, Start Num: 84
Candidate Starts for ScoobyDoobyDoo_130:

(14, 79357), (Start: 23 @79477 has 50 MA's), (Start: 84 @79579 has 2 MA's), (140, 79696), (141, 79699), (148, 79732), (174, 79795), (250, 80008), (291, 80110),

Gene: Scorpia_5 Start: 3408, Stop: 4049, Start Num: 51
Candidate Starts for Scorpia_5:
(Start: 51 @3408 has 73 MA's), (71, 3444), (85, 3465), (106, 3492), (151, 3624), (181, 3705), (189, 3720), (292, 4026),

Gene: Scottish_25 Start: 25565, Stop: 26389, Start Num: 48
Candidate Starts for Scottish_25:
(22, 25505), (Start: 48 @25565 has 174 MA's), (83, 25613), (122, 25679), (203, 26006),

Gene: Scout_5 Start: 2346, Stop: 2987, Start Num: 31
Candidate Starts for Scout_5:
(Start: 31 @2346 has 421 MA's), (97, 2430), (123, 2472), (211, 2748), (220, 2760),

Gene: Scowl_35 Start: 28529, Stop: 29362, Start Num: 48
Candidate Starts for Scowl_35:
(Start: 48 @28529 has 174 MA's), (72, 28565), (98, 28607), (153, 28721), (169, 28835), (174, 28850), (179, 28868), (210, 28979), (243, 29072), (268, 29207), (275, 29222), (276, 29231), (280, 29252), (281, 29255),

Gene: SeaLumen_25 Start: 24314, Stop: 25024, Start Num: 48
Candidate Starts for SeaLumen_25:
(22, 24254), (Start: 48 @24314 has 174 MA's), (83, 24362), (104, 24395), (122, 24428), (174, 24656),

Gene: Seabastian_24 Start: 24502, Stop: 25308, Start Num: 51
Candidate Starts for Seabastian_24:
(Start: 51 @24502 has 73 MA's), (83, 24550), (104, 24583), (122, 24616), (153, 24700), (157, 24706), (168, 24805), (212, 24952), (244, 25045), (266, 25156),

Gene: Seabiscuit_37 Start: 28061, Stop: 28864, Start Num: 48
Candidate Starts for Seabiscuit_37:
(Start: 48 @28061 has 174 MA's), (Start: 76 @28097 has 1 MA's), (112, 28139), (203, 28481), (226, 28532),

Gene: SenorClean_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for SenorClean_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Sephiroth_33 Start: 27616, Stop: 28326, Start Num: 26
Candidate Starts for Sephiroth_33:
(Start: 26 @27616 has 12 MA's), (140, 27820), (142, 27826), (168, 27901), (187, 27949), (188, 27952), (189, 27955), (203, 28030), (252, 28159), (284, 28258), (292, 28300),

Gene: Serenity_31 Start: 23522, Stop: 24121, Start Num: 69
Candidate Starts for Serenity_31:
(Start: 69 @23522 has 4 MA's), (89, 23555), (113, 23573), (140, 23642), (169, 23726), (180, 23762), (212, 23879), (283, 24050),

Gene: Shaka_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Shaka_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Sham4_8 Start: 5413, Stop: 6075, Start Num: 31
Candidate Starts for Sham4_8:
(Start: 31 @5413 has 421 MA's), (Start: 84 @5479 has 2 MA's), (128, 5554), (168, 5665), (246, 5905), (266, 5950),

Gene: Shapes_6 Start: 2752, Stop: 3399, Start Num: 31
Candidate Starts for Shapes_6:
(Start: 31 @2752 has 421 MA's), (Start: 53 @2776 has 6 MA's), (99, 2839), (140, 2929), (171, 3019), (197, 3112),

Gene: ShayRa_9 Start: 4550, Stop: 5224, Start Num: 51
Candidate Starts for ShayRa_9:
(Start: 51 @4550 has 73 MA's), (106, 4631), (121, 4667), (170, 4814), (189, 4862),

Gene: SheaKeira_32 Start: 24009, Stop: 24662, Start Num: 31
Candidate Starts for SheaKeira_32:
(Start: 31 @24009 has 421 MA's), (107, 24114), (113, 24126), (140, 24195), (142, 24201), (143, 24204), (150, 24234), (176, 24303), (191, 24342),

Gene: SheldonCooper_5 Start: 2723, Stop: 3388, Start Num: 31
Candidate Starts for SheldonCooper_5:
(Start: 31 @2723 has 421 MA's), (140, 2900), (171, 2990), (202, 3116),

Gene: Shep_5 Start: 2283, Stop: 2945, Start Num: 31
Candidate Starts for Shep_5:
(Start: 31 @2283 has 421 MA's), (140, 2460), (148, 2496), (155, 2511), (173, 2556), (250, 2784), (267, 2817),

Gene: ShiLan_24 Start: 24455, Stop: 25279, Start Num: 48
Candidate Starts for ShiLan_24:
(Start: 48 @24455 has 174 MA's), (83, 24503), (104, 24536), (122, 24569), (203, 24896),

Gene: ShowerHandel_24 Start: 24456, Stop: 25280, Start Num: 48
Candidate Starts for ShowerHandel_24:
(22, 24396), (Start: 48 @24456 has 174 MA's), (68, 24483), (83, 24504), (104, 24537), (122, 24570), (203, 24897),

Gene: Shygu2_5 Start: 2724, Stop: 3389, Start Num: 31
Candidate Starts for Shygu2_5:
(Start: 31 @2724 has 421 MA's), (140, 2901), (171, 2991), (202, 3117), (297, 3372),

Gene: SiSi_24 Start: 24255, Stop: 25079, Start Num: 48
Candidate Starts for SiSi_24:
(Start: 48 @24255 has 174 MA's), (83, 24303), (104, 24336), (122, 24369), (203, 24696), (266, 24924),

Gene: SimranZ1_25 Start: 24067, Stop: 24906, Start Num: 51
Candidate Starts for SimranZ1_25:
(22, 24004), (Start: 51 @24067 has 73 MA's), (54, 24073), (83, 24115), (131, 24208), (169, 24379), (174, 24394), (179, 24412), (244, 24622), (268, 24751), (278, 24781), (280, 24796), (293, 24856),

Gene: Skadoosh_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Skadoosh_5:

(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Skipitt_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Skipitt_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (231, 3169), (297, 3367),

Gene: Smeadley_5 Start: 3347, Stop: 4006, Start Num: 31
Candidate Starts for Smeadley_5:
(Start: 31 @3347 has 421 MA's), (77, 3404), (109, 3446), (217, 3764), (250, 3863),

Gene: Smeagol_37 Start: 29393, Stop: 30175, Start Num: 73
Candidate Starts for Smeagol_37:
(Start: 73 @29393 has 37 MA's), (142, 29528), (210, 29816), (241, 29903), (274, 30044),

Gene: SmellyB_8 Start: 4661, Stop: 5359, Start Num: 23
Candidate Starts for SmellyB_8:
(Start: 23 @4661 has 50 MA's), (239, 5165), (298, 5351),

Gene: Snape_8 Start: 5416, Stop: 6078, Start Num: 31
Candidate Starts for Snape_8:
(Start: 31 @5416 has 421 MA's), (Start: 84 @5482 has 2 MA's), (128, 5557), (246, 5908), (266, 5953),

Gene: Snickers_5 Start: 2872, Stop: 3531, Start Num: 31
Candidate Starts for Snickers_5:
(Start: 31 @2872 has 421 MA's), (Start: 124 @3001 has 1 MA's), (142, 3055), (150, 3088), (176, 3157), (295, 3511),

Gene: SoYo_5 Start: 2809, Stop: 3468, Start Num: 31
Candidate Starts for SoYo_5:
(Start: 31 @2809 has 421 MA's), (Start: 124 @2938 has 1 MA's), (142, 2992), (150, 3025), (176, 3094), (295, 3448),

Gene: SoilDragon_5 Start: 2572, Stop: 3231, Start Num: 31
Candidate Starts for SoilDragon_5:
(Start: 31 @2572 has 421 MA's), (99, 2659), (Start: 124 @2701 has 1 MA's), (142, 2755), (152, 2794), (171, 2839),

Gene: Soshari_7 Start: 2720, Stop: 3352, Start Num: 31
Candidate Starts for Soshari_7:
(Start: 31 @2720 has 421 MA's), (142, 2903), (143, 2906), (148, 2933),

Gene: Soups_8 Start: 4550, Stop: 5224, Start Num: 51
Candidate Starts for Soups_8:
(Start: 51 @4550 has 73 MA's), (106, 4631), (121, 4667), (170, 4814), (189, 4862),

Gene: Sparkdehlily_24 Start: 24290, Stop: 25114, Start Num: 48
Candidate Starts for Sparkdehlily_24:
(22, 24230), (Start: 48 @24290 has 174 MA's), (83, 24338), (104, 24371), (122, 24404), (144, 24476), (203, 24731),

Gene: Sparxx_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Sparxx_5:

(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: SpeedDemon_430 Start: 40514, Stop: 41227, Start Num: 26
Candidate Starts for SpeedDemon_430:
(13, 40364), (Start: 26 @40514 has 12 MA's), (32, 40529), (40, 40544), (54, 40565), (110, 40652), (132, 40709), (178, 40844), (181, 40853), (191, 40874), (203, 40943), (251, 41057),

Gene: Spike509_5 Start: 2720, Stop: 3352, Start Num: 31
Candidate Starts for Spike509_5:
(Start: 31 @2720 has 421 MA's), (142, 2903), (143, 2906), (148, 2933),

Gene: Spino_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Spino_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142),

Gene: Spoonbill_24 Start: 24454, Stop: 25278, Start Num: 48
Candidate Starts for Spoonbill_24:
(Start: 48 @24454 has 174 MA's), (83, 24502), (104, 24535), (122, 24568), (144, 24640), (203, 24895), (226, 24946),

Gene: Squee_36 Start: 28900, Stop: 29703, Start Num: 48
Candidate Starts for Squee_36:
(Start: 48 @28900 has 174 MA's), (Start: 76 @28936 has 1 MA's), (112, 28978), (203, 29320), (226, 29371),

Gene: Stagni_5 Start: 2891, Stop: 3559, Start Num: 31
Candidate Starts for Stagni_5:
(Start: 31 @2891 has 421 MA's), (Start: 124 @3020 has 1 MA's), (142, 3074), (150, 3107), (176, 3176), (295, 3539),

Gene: StarStuff_35 Start: 24412, Stop: 25083, Start Num: 33
Candidate Starts for StarStuff_35:
(Start: 33 @24412 has 18 MA's), (99, 24502), (113, 24523), (140, 24592), (148, 24628), (169, 24676), (246, 24916), (247, 24919), (285, 25018), (290, 25033),

Gene: Stasia_5 Start: 2745, Stop: 3407, Start Num: 31
Candidate Starts for Stasia_5:
(Start: 31 @2745 has 421 MA's), (94, 2826), (Start: 111 @2850 has 1 MA's),

Gene: SteMason_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for SteMason_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: SteamedHams_30 Start: 22667, Stop: 23359, Start Num: 31
Candidate Starts for SteamedHams_30:
(Start: 31 @22667 has 421 MA's), (77, 22724), (Start: 84 @22733 has 2 MA's), (99, 22754), (134, 22829), (245, 23171),

Gene: Steamy_8 Start: 5295, Stop: 5924, Start Num: 31
Candidate Starts for Steamy_8:
(Start: 31 @5295 has 421 MA's), (88, 5367), (94, 5376), (Start: 124 @5424 has 1 MA's), (143, 5481),

Gene: StepMih_5 Start: 3020, Stop: 3550, Start Num: 124

Candidate Starts for StepMih_5:
(Start: 31 @2891 has 421 MA's), (Start: 124 @3020 has 1 MA's), (142, 3074), (150, 3107), (176, 3176), (295, 3530),

Gene: Stephig9_5 Start: 3348, Stop: 4007, Start Num: 31
Candidate Starts for Stephig9_5:
(Start: 31 @3348 has 421 MA's), (77, 3405), (109, 3447), (250, 3864),

Gene: Stink_5 Start: 2719, Stop: 3384, Start Num: 31
Candidate Starts for Stink_5:
(Start: 31 @2719 has 421 MA's), (94, 2800), (171, 2986), (202, 3112),

Gene: StrongArm_34 Start: 29035, Stop: 29871, Start Num: 52
Candidate Starts for StrongArm_34:
(Start: 52 @29035 has 9 MA's), (83, 29071), (Start: 111 @29113 has 1 MA's), (144, 29200), (153, 29227), (166, 29329), (203, 29458), (246, 29587),

Gene: Strosahl_8 Start: 4403, Stop: 5071, Start Num: 39
Candidate Starts for Strosahl_8:
(Start: 39 @4403 has 13 MA's), (159, 4643), (187, 4709), (230, 4835),

Gene: Sultana_5 Start: 2723, Stop: 3385, Start Num: 31
Candidate Starts for Sultana_5:
(Start: 31 @2723 has 421 MA's), (Start: 111 @2828 has 1 MA's), (218, 3140), (220, 3143), (297, 3368),

Gene: Sunhee_32 Start: 23957, Stop: 24625, Start Num: 31
Candidate Starts for Sunhee_32:
(7, 23567), (Start: 31 @23957 has 421 MA's), (140, 24140), (148, 24176), (180, 24260), (198, 24329), (212, 24383),

Gene: SuperAwesome_8 Start: 4661, Stop: 5359, Start Num: 23
Candidate Starts for SuperAwesome_8:
(Start: 23 @4661 has 50 MA's), (239, 5165), (298, 5351),

Gene: SuperCallie99_8 Start: 4662, Stop: 5360, Start Num: 23
Candidate Starts for SuperCallie99_8:
(Start: 23 @4662 has 50 MA's), (239, 5166), (298, 5352),

Gene: Superchunk_31 Start: 22947, Stop: 23612, Start Num: 31
Candidate Starts for Superchunk_31:
(Start: 31 @22947 has 421 MA's), (Start: 33 @22950 has 18 MA's), (113, 23061), (140, 23130), (142, 23136), (148, 23166), (180, 23250), (218, 23373), (246, 23445), (290, 23562),

Gene: SwagPigglett_24 Start: 24267, Stop: 25091, Start Num: 48
Candidate Starts for SwagPigglett_24:
(22, 24207), (Start: 48 @24267 has 174 MA's), (83, 24315), (104, 24348), (122, 24381), (144, 24453), (203, 24708),

Gene: SweetCrkHerbs_28 Start: 18842, Stop: 19492, Start Num: 51
Candidate Starts for SweetCrkHerbs_28:
(Start: 51 @18842 has 73 MA's), (106, 18926), (204, 19229), (210, 19244), (288, 19439), (296, 19475),

Gene: SwirlSquare_33 Start: 23197, Stop: 23850, Start Num: 33

Candidate Starts for SwirlSquare_33:
(Start: 33 @23197 has 18 MA's), (79, 23260), (Start: 84 @23266 has 2 MA's), (113, 23308), (140, 23377), (148, 23413), (180, 23497), (235, 23653), (240, 23671),

Gene: Swirley_5 Start: 3571, Stop: 4233, Start Num: 31
Candidate Starts for Swirley_5:
(Start: 31 @3571 has 421 MA's), (38, 3583), (Start: 60 @3607 has 2 MA's), (74, 3622), (Start: 84 @3637 has 2 MA's), (128, 3712), (173, 3841), (246, 4063),

Gene: SwissCheese_37 Start: 28768, Stop: 29556, Start Num: 73
Candidate Starts for SwissCheese_37:
(Start: 73 @28768 has 37 MA's), (Start: 76 @28774 has 1 MA's), (100, 28810), (173, 29068), (203, 29173), (213, 29200), (226, 29224), (266, 29401),

Gene: Switzer_36 Start: 28167, Stop: 28970, Start Num: 48
Candidate Starts for Switzer_36:
(Start: 48 @28167 has 174 MA's), (Start: 76 @28203 has 1 MA's), (112, 28245), (144, 28332), (203, 28587), (226, 28638),

Gene: Switzerland_8 Start: 4550, Stop: 5224, Start Num: 51
Candidate Starts for Switzerland_8:
(Start: 51 @4550 has 73 MA's), (106, 4631), (121, 4667), (170, 4814), (189, 4862),

Gene: SydNat_5 Start: 3697, Stop: 4344, Start Num: 41
Candidate Starts for SydNat_5:
(Start: 31 @3679 has 421 MA's), (Start: 41 @3697 has 6 MA's), (Start: 84 @3745 has 2 MA's), (99, 3766), (142, 3862), (284, 4291),

Gene: Syleon_33 Start: 27538, Stop: 28248, Start Num: 26
Candidate Starts for Syleon_33:
(Start: 26 @27538 has 12 MA's), (140, 27742), (142, 27748), (168, 27823), (187, 27871), (188, 27874), (189, 27877), (203, 27952), (252, 28081), (284, 28180), (292, 28222),

Gene: TDanisky_24 Start: 24290, Stop: 25114, Start Num: 48
Candidate Starts for TDanisky_24:
(22, 24230), (Start: 48 @24290 has 174 MA's), (83, 24338), (104, 24371), (122, 24404), (144, 24476), (203, 24731),

Gene: TNguyen7_5 Start: 2828, Stop: 3478, Start Num: 31
Candidate Starts for TNguyen7_5:
(Start: 31 @2828 has 421 MA's), (140, 3005), (171, 3095), (197, 3191),

Gene: TPA2_47 Start: 36929, Stop: 37582, Start Num: 53
Candidate Starts for TPA2_47:
(Start: 53 @36929 has 6 MA's), (74, 36965), (81, 36977), (Start: 93 @36995 has 2 MA's), (120, 37040), (140, 37100), (141, 37103), (175, 37205), (290, 37535),

Gene: Tairn4Wing_28 Start: 18667, Stop: 19314, Start Num: 51
Candidate Starts for Tairn4Wing_28:
(Start: 51 @18667 has 73 MA's), (95, 18730), (153, 18880), (197, 19018), (242, 19126), (265, 19192),

Gene: Talon44_27 Start: 18842, Stop: 19492, Start Num: 51
Candidate Starts for Talon44_27:

(Start: 51 @18842 has 73 MA's), (106, 18926), (204, 19229), (210, 19244), (288, 19439), (296, 19475),

Gene: Taquarus_5 Start: 2725, Stop: 3387, Start Num: 31
Candidate Starts for Taquarus_5:
(Start: 31 @2725 has 421 MA's), (Start: 111 @2830 has 1 MA's), (218, 3142), (220, 3145), (297, 3370),

Gene: Tarynearal_4 Start: 3600, Stop: 4262, Start Num: 31
Candidate Starts for Tarynearal_4:
(Start: 31 @3600 has 421 MA's), (38, 3612), (Start: 60 @3636 has 2 MA's), (74, 3651), (Start: 84 @3666 has 2 MA's), (128, 3741), (173, 3870), (246, 4092),

Gene: Tasp14_36 Start: 28268, Stop: 29101, Start Num: 48
Candidate Starts for Tasp14_36:
(Start: 48 @28268 has 174 MA's), (72, 28304), (98, 28346), (153, 28460), (169, 28574), (174, 28589), (179, 28607), (210, 28718), (275, 28961), (276, 28970), (280, 28991), (281, 28994),

Gene: Taurus_5 Start: 2629, Stop: 3264, Start Num: 31
Candidate Starts for Taurus_5:
(Start: 31 @2629 has 421 MA's), (148, 2842),

Gene: Temprado_8 Start: 4661, Stop: 5359, Start Num: 23
Candidate Starts for Temprado_8:
(Start: 23 @4661 has 50 MA's), (239, 5165), (298, 5351),

Gene: Texage_4 Start: 2764, Stop: 3423, Start Num: 31
Candidate Starts for Texage_4:
(Start: 31 @2764 has 421 MA's), (43, 2785), (99, 2851), (140, 2941), (148, 2977), (235, 3223), (269, 3310),

Gene: Thanksgivukkah_5 Start: 2723, Stop: 3385, Start Num: 31
Candidate Starts for Thanksgivukkah_5:
(Start: 31 @2723 has 421 MA's), (Start: 111 @2828 has 1 MA's), (218, 3140), (220, 3143), (297, 3368),

Gene: Theia_4 Start: 3572, Stop: 4234, Start Num: 31
Candidate Starts for Theia_4:
(Start: 31 @3572 has 421 MA's), (Start: 60 @3608 has 2 MA's), (74, 3623), (Start: 84 @3638 has 2 MA's), (128, 3713), (246, 4064),

Gene: TheloniousMonk_37 Start: 29707, Stop: 30498, Start Num: 58
Candidate Starts for TheloniousMonk_37:
(Start: 58 @29707 has 1 MA's), (70, 29722), (75, 29728), (112, 29773), (144, 29860), (203, 30115), (226, 30166),

Gene: Tiffany_5 Start: 2900, Stop: 3451, Start Num: 31
Candidate Starts for Tiffany_5:
(Start: 31 @2900 has 421 MA's), (Start: 124 @3029 has 1 MA's), (142, 3083), (150, 3116), (176, 3185), (295, 3431),

Gene: Tiger_5 Start: 3446, Stop: 4087, Start Num: 51
Candidate Starts for Tiger_5:
(Start: 51 @3446 has 73 MA's), (117, 3554), (139, 3614), (151, 3662), (156, 3668), (171, 3707), (187, 3752), (189, 3758),

Gene: Timothy_8 Start: 5410, Stop: 6072, Start Num: 31
Candidate Starts for Timothy_8:
(Start: 31 @5410 has 421 MA's), (Start: 84 @5476 has 2 MA's), (128, 5551), (168, 5662), (246, 5902),

Gene: TinaFeyge_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for TinaFeyge_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: TinaLin_3 Start: 665, Stop: 1360, Start Num: 39
Candidate Starts for TinaLin_3:
(11, 434), (16, 515), (20, 590), (Start: 39 @665 has 13 MA's), (45, 677), (63, 704), (92, 755), (121, 812), (135, 857), (139, 866), (178, 986), (184, 998), (190, 1010), (251, 1193),

Gene: TinyPebbles_5 Start: 2720, Stop: 3352, Start Num: 31
Candidate Starts for TinyPebbles_5:
(Start: 31 @2720 has 421 MA's), (142, 2903), (143, 2906), (148, 2933),

Gene: TinyTimmy_8 Start: 5410, Stop: 6072, Start Num: 31
Candidate Starts for TinyTimmy_8:
(Start: 31 @5410 has 421 MA's), (Start: 84 @5476 has 2 MA's), (128, 5551), (168, 5662), (246, 5902), (266, 5947),

Gene: Tinybot_4 Start: 2725, Stop: 3390, Start Num: 31
Candidate Starts for Tinybot_4:
(Start: 31 @2725 has 421 MA's), (140, 2902), (171, 2992), (202, 3118),

Gene: TipsytheTRex_31 Start: 23713, Stop: 24366, Start Num: 33
Candidate Starts for TipsytheTRex_31:
(Start: 31 @23710 has 421 MA's), (Start: 33 @23713 has 18 MA's), (74, 23767), (140, 23893), (148, 23929), (220, 24139), (235, 24169), (237, 24178), (240, 24187), (286, 24316),

Gene: TiroTheta9_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for TiroTheta9_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (231, 3169), (297, 3367),

Gene: Toaka_31 Start: 24361, Stop: 25002, Start Num: 31
Candidate Starts for Toaka_31:
(Start: 31 @24361 has 421 MA's), (99, 24454), (113, 24475), (140, 24544), (171, 24634), (191, 24691), (209, 24763), (212, 24775), (246, 24853),

Gene: Todacoro_5 Start: 2764, Stop: 3423, Start Num: 31
Candidate Starts for Todacoro_5:
(Start: 31 @2764 has 421 MA's), (43, 2785), (99, 2851), (140, 2941), (148, 2977), (235, 3223), (269, 3310),

Gene: Tomathan_35 Start: 24412, Stop: 25083, Start Num: 33
Candidate Starts for Tomathan_35:
(Start: 33 @24412 has 18 MA's), (99, 24502), (113, 24523), (140, 24592), (148, 24628), (169, 24676), (246, 24916), (247, 24919), (285, 25018), (290, 25033),

Gene: ToneTone_7 Start: 4571, Stop: 5269, Start Num: 23
Candidate Starts for ToneTone_7:

(Start: 23 @4571 has 50 MA's), (239, 5075), (298, 5261),

Gene: TootsiePop_25 Start: 24136, Stop: 24960, Start Num: 48
Candidate Starts for TootsiePop_25:
(22, 24076), (Start: 48 @24136 has 174 MA's), (83, 24184), (122, 24250), (203, 24577),

Gene: Topanga_5 Start: 2891, Stop: 3580, Start Num: 31
Candidate Starts for Topanga_5:
(Start: 31 @2891 has 421 MA's), (90, 2975), (125, 3035), (156, 3128), (173, 3173), (186, 3218), (250, 3431),

Gene: Topiatin_26 Start: 24966, Stop: 25772, Start Num: 51
Candidate Starts for Topiatin_26:
(22, 24906), (Start: 51 @24966 has 73 MA's), (83, 25014), (104, 25047), (122, 25080), (210, 25410), (212, 25416), (266, 25620), (304, 25767),

Gene: TraderJ_39 Start: 33929, Stop: 34591, Start Num: 47
Candidate Starts for TraderJ_39:
(Start: 47 @33929 has 8 MA's), (83, 33986), (106, 34016), (108, 34019), (116, 34037), (171, 34193), (190, 34247), (210, 34334), (223, 34349), (238, 34379), (250, 34436), (254, 34448), (296, 34574),

Gene: Travvers_35 Start: 24412, Stop: 25083, Start Num: 33
Candidate Starts for Travvers_35:
(Start: 33 @24412 has 18 MA's), (99, 24502), (113, 24523), (140, 24592), (148, 24628), (169, 24676), (246, 24916), (247, 24919), (285, 25018), (290, 25033),

Gene: Tripl3t_36 Start: 28912, Stop: 29700, Start Num: 73
Candidate Starts for Tripl3t_36:
(Start: 73 @28912 has 37 MA's), (Start: 76 @28918 has 1 MA's), (100, 28954), (173, 29212), (203, 29317), (213, 29344), (226, 29368), (266, 29545),

Gene: Tristan_8 Start: 5078, Stop: 5740, Start Num: 31
Candidate Starts for Tristan_8:
(Start: 31 @5078 has 421 MA's), (94, 5159),

Gene: Trixie_8 Start: 5232, Stop: 5918, Start Num: 31
Candidate Starts for Trixie_8:
(Start: 31 @5232 has 421 MA's), (99, 5319), (116, 5346), (140, 5403), (153, 5448), (193, 5556), (247, 5727), (253, 5748), (284, 5847),

Gene: TroyPia_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for TroyPia_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Trufflozitus_26 Start: 18668, Stop: 19315, Start Num: 51
Candidate Starts for Trufflozitus_26:
(Start: 51 @18668 has 73 MA's), (95, 18731), (153, 18881), (197, 19019), (242, 19127), (265, 19193), (292, 19289),

Gene: Tubs_8 Start: 5239, Stop: 5868, Start Num: 31
Candidate Starts for Tubs_8:
(Start: 31 @5239 has 421 MA's), (64, 5278), (142, 5419), (148, 5449), (155, 5464),

Gene: Tucker_8 Start: 4661, Stop: 5359, Start Num: 23
Candidate Starts for Tucker_8:
(Start: 23 @4661 has 50 MA's), (239, 5165), (298, 5351),

Gene: Turuncu_49 Start: 36776, Stop: 37405, Start Num: 69
Candidate Starts for Turuncu_49:
(17, 36638), (28, 36722), (Start: 39 @36743 has 13 MA's), (42, 36749), (Start: 69 @36776 has 4 MA's), (168, 37004), (285, 37334), (295, 37379),

Gene: Twigg_5 Start: 3571, Stop: 4233, Start Num: 31
Candidate Starts for Twigg_5:
(Start: 31 @3571 has 421 MA's), (38, 3583), (Start: 60 @3607 has 2 MA's), (74, 3622), (Start: 84 @3637 has 2 MA's), (128, 3712), (173, 3841), (246, 4063),

Gene: Twister_5 Start: 2837, Stop: 3484, Start Num: 31
Candidate Starts for Twister_5:
(Start: 31 @2837 has 421 MA's), (140, 3014), (184, 3146), (197, 3197), (198, 3200),

Gene: TygerBlood_5 Start: 2724, Stop: 3386, Start Num: 31
Candidate Starts for TygerBlood_5:
(Start: 31 @2724 has 421 MA's), (Start: 111 @2829 has 1 MA's), (218, 3141), (220, 3144), (297, 3369),

Gene: U2_35 Start: 28173, Stop: 28955, Start Num: 48
Candidate Starts for U2_35:
(Start: 48 @28173 has 174 MA's), (Start: 76 @28209 has 1 MA's), (112, 28251), (144, 28338), (203, 28572), (226, 28623),

Gene: Ugenie5_6 Start: 5227, Stop: 5898, Start Num: 31
Candidate Starts for Ugenie5_6:
(Start: 31 @5227 has 421 MA's), (140, 5401), (148, 5437), (220, 5650), (282, 5821),

Gene: Ulysses_5 Start: 2723, Stop: 3388, Start Num: 31
Candidate Starts for Ulysses_5:
(Start: 31 @2723 has 421 MA's), (94, 2804), (143, 2903), (196, 3077),

Gene: UncleRicky_27 Start: 25583, Stop: 26407, Start Num: 48
Candidate Starts for UncleRicky_27:
(22, 25523), (Start: 48 @25583 has 174 MA's), (83, 25631), (122, 25697), (203, 26024),

Gene: UnionJack_5 Start: 3413, Stop: 4054, Start Num: 51
Candidate Starts for UnionJack_5:
(Start: 51 @3413 has 73 MA's), (117, 3521), (139, 3581), (151, 3629), (156, 3635), (171, 3674), (189, 3725), (292, 4031),

Gene: VA6_32 Start: 24568, Stop: 25233, Start Num: 29
Candidate Starts for VA6_32:
(Start: 29 @24568 has 8 MA's), (79, 24631), (118, 24691), (123, 24700), (Start: 124 @24703 has 1 MA's), (250, 25081), (285, 25171), (295, 25213),

Gene: VC3_35 Start: 24556, Stop: 25221, Start Num: 29
Candidate Starts for VC3_35:
(Start: 29 @24556 has 8 MA's), (79, 24619), (118, 24679), (123, 24688), (Start: 124 @24691 has 1 MA's), (151, 24784), (250, 25069), (285, 25159), (295, 25201),

Gene: VanLee_26 Start: 22797, Stop: 23510, Start Num: 26
Candidate Starts for VanLee_26:
(Start: 26 @22797 has 12 MA's), (78, 22881), (203, 23223), (299, 23505),

Gene: Veracruz_4 Start: 2764, Stop: 3423, Start Num: 31
Candidate Starts for Veracruz_4:
(Start: 31 @2764 has 421 MA's), (43, 2785), (99, 2851), (140, 2941), (148, 2977), (235, 3223), (269, 3310),

Gene: Veteran_24 Start: 24269, Stop: 25093, Start Num: 48
Candidate Starts for Veteran_24:
(Start: 48 @24269 has 174 MA's), (83, 24317), (104, 24350), (122, 24383), (203, 24710), (266, 24938),

Gene: Violac_25 Start: 24966, Stop: 25790, Start Num: 48
Candidate Starts for Violac_25:
(22, 24906), (Start: 48 @24966 has 174 MA's), (83, 25014), (122, 25080), (203, 25407),

Gene: Violet_34 Start: 28585, Stop: 29373, Start Num: 73
Candidate Starts for Violet_34:
(Start: 73 @28585 has 37 MA's), (Start: 76 @28591 has 1 MA's), (100, 28627), (173, 28885), (203, 28990), (213, 29017), (226, 29041), (266, 29218),

Gene: Vivum_24 Start: 24212, Stop: 25018, Start Num: 51
Candidate Starts for Vivum_24:
(22, 24152), (Start: 51 @24212 has 73 MA's), (83, 24260), (122, 24326), (130, 24350), (131, 24353), (210, 24656), (212, 24662), (266, 24866), (304, 25013),

Gene: Vix_5 Start: 2719, Stop: 3351, Start Num: 31
Candidate Starts for Vix_5:
(Start: 31 @2719 has 421 MA's), (142, 2902), (143, 2905), (148, 2932),

Gene: VohminGhazi_8 Start: 4661, Stop: 5359, Start Num: 23
Candidate Starts for VohminGhazi_8:
(Start: 23 @4661 has 50 MA's), (239, 5165), (298, 5351),

Gene: Waits_8 Start: 4402, Stop: 5076, Start Num: 51
Candidate Starts for Waits_8:
(Start: 51 @4402 has 73 MA's), (106, 4483), (121, 4519), (170, 4666), (189, 4714),

Gene: WalterMcMickey_5 Start: 2837, Stop: 3484, Start Num: 31
Candidate Starts for WalterMcMickey_5:
(Start: 31 @2837 has 421 MA's), (140, 3014), (184, 3146), (197, 3197), (198, 3200),

Gene: Wanda_45 Start: 36693, Stop: 37499, Start Num: 51
Candidate Starts for Wanda_45:
(22, 36633), (Start: 51 @36693 has 73 MA's), (83, 36741), (104, 36774), (122, 36807), (147, 36876), (210, 37137), (212, 37143), (266, 37347), (304, 37494),

Gene: Wander_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for Wander_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Warrior24_8 Start: 4406, Stop: 5080, Start Num: 51
Candidate Starts for Warrior24_8:
(Start: 51 @4406 has 73 MA's), (106, 4487), (121, 4523), (170, 4670), (189, 4718),

Gene: Watermelon_37 Start: 28921, Stop: 29709, Start Num: 73
Candidate Starts for Watermelon_37:
(Start: 73 @28921 has 37 MA's), (Start: 76 @28927 has 1 MA's), (100, 28963), (173, 29221), (203, 29326), (213, 29353), (226, 29377), (266, 29554),

Gene: Watson_5 Start: 2890, Stop: 3549, Start Num: 31
Candidate Starts for Watson_5:
(Start: 31 @2890 has 421 MA's), (142, 3073), (150, 3106), (176, 3175), (295, 3529),

Gene: WeiHuaDA_9 Start: 5446, Stop: 6132, Start Num: 31
Candidate Starts for WeiHuaDA_9:
(Start: 31 @5446 has 421 MA's), (141, 5620), (193, 5770), (247, 5941), (284, 6061),

Gene: Whitspit_36 Start: 28700, Stop: 29473, Start Num: 52
Candidate Starts for Whitspit_36:
(Start: 52 @28700 has 9 MA's), (83, 28736), (Start: 111 @28778 has 1 MA's), (144, 28865), (153, 28892), (167, 28994), (177, 29027), (201, 29108), (207, 29123), (276, 29342), (303, 29441), (306, 29465),

Gene: Whouxphf_24 Start: 24369, Stop: 25334, Start Num: 48
Candidate Starts for Whouxphf_24:
(22, 24309), (Start: 48 @24369 has 174 MA's), (83, 24417), (104, 24450), (122, 24483), (153, 24582), (174, 24711), (211, 24837),

Gene: Wiks_8 Start: 4661, Stop: 5359, Start Num: 23
Candidate Starts for Wiks_8:
(Start: 23 @4661 has 50 MA's), (239, 5165), (298, 5351),

Gene: Wilbur_5 Start: 2721, Stop: 3383, Start Num: 31
Candidate Starts for Wilbur_5:
(Start: 31 @2721 has 421 MA's), (Start: 111 @2826 has 1 MA's), (218, 3138), (220, 3141), (297, 3366),

Gene: Wile_5 Start: 2734, Stop: 3396, Start Num: 31
Candidate Starts for Wile_5:
(Start: 31 @2734 has 421 MA's), (Start: 111 @2839 has 1 MA's), (220, 3154),

Gene: WillSterrel_25 Start: 25658, Stop: 26464, Start Num: 51
Candidate Starts for WillSterrel_25:
(22, 25598), (Start: 51 @25658 has 73 MA's), (83, 25706), (104, 25739), (122, 25772), (210, 26102), (212, 26108), (266, 26312), (304, 26459),

Gene: Wizard007_5 Start: 2724, Stop: 3386, Start Num: 31
Candidate Starts for Wizard007_5:
(Start: 31 @2724 has 421 MA's), (Start: 111 @2829 has 1 MA's), (218, 3141), (220, 3144), (297, 3369),

Gene: Wolpertinger_7 Start: 5413, Stop: 6075, Start Num: 31
Candidate Starts for Wolpertinger_7:
(Start: 31 @5413 has 421 MA's), (Start: 84 @5479 has 2 MA's), (128, 5554), (168, 5665), (246, 5905), (266, 5950),

Gene: Wooldri_7 Start: 2809, Stop: 3468, Start Num: 31
Candidate Starts for Wooldri_7:
(Start: 31 @2809 has 421 MA's), (Start: 124 @2938 has 1 MA's), (142, 2992), (150, 3025), (176, 3094), (295, 3448),

Gene: Wooper_39 Start: 33935, Stop: 34597, Start Num: 47
Candidate Starts for Wooper_39:
(Start: 47 @33935 has 8 MA's), (83, 33992), (106, 34022), (108, 34025), (116, 34043), (171, 34199), (210, 34340), (223, 34355), (238, 34385), (250, 34442), (254, 34454), (296, 34580),

Gene: WorldCup_30 Start: 23978, Stop: 24619, Start Num: 31
Candidate Starts for WorldCup_30:
(18, 23906), (Start: 31 @23978 has 421 MA's), (Start: 124 @24113 has 1 MA's), (140, 24161), (212, 24392), (295, 24599),

Gene: WunderPhul_8 Start: 4661, Stop: 5359, Start Num: 23
Candidate Starts for WunderPhul_8:
(Start: 23 @4661 has 50 MA's), (239, 5165), (298, 5351),

Gene: Xena_5 Start: 2733, Stop: 3395, Start Num: 31
Candidate Starts for Xena_5:
(Start: 31 @2733 has 421 MA's), (Start: 111 @2838 has 1 MA's), (220, 3153),

Gene: XianYue_32 Start: 24396, Stop: 24998, Start Num: 87
Candidate Starts for XianYue_32:
(Start: 87 @24396 has 1 MA's), (95, 24408), (140, 24504), (148, 24540), (212, 24747),

Gene: Yarn_27 Start: 22532, Stop: 23170, Start Num: 53
Candidate Starts for Yarn_27:
(Start: 53 @22532 has 6 MA's), (56, 22541), (83, 22583), (100, 22601), (117, 22637), (140, 22697), (207, 22913), (259, 23027),

Gene: Yecey3_33 Start: 24132, Stop: 24764, Start Num: 36
Candidate Starts for Yecey3_33:
(Start: 36 @24132 has 1 MA's), (142, 24318), (148, 24348), (207, 24519), (216, 24525),

Gene: Yeshua_39 Start: 33912, Stop: 34574, Start Num: 47
Candidate Starts for Yeshua_39:
(Start: 47 @33912 has 8 MA's), (83, 33969), (106, 33999), (108, 34002), (116, 34020), (171, 34176), (210, 34317), (223, 34332), (238, 34362), (250, 34419), (254, 34431), (296, 34557),

Gene: YoSam321_5 Start: 2722, Stop: 3384, Start Num: 31
Candidate Starts for YoSam321_5:
(Start: 31 @2722 has 421 MA's), (Start: 111 @2827 has 1 MA's), (218, 3139), (220, 3142), (297, 3367),

Gene: Yokurt_8 Start: 4661, Stop: 5359, Start Num: 23
Candidate Starts for Yokurt_8:
(Start: 23 @4661 has 50 MA's), (239, 5165), (298, 5351),

Gene: Yorick_24 Start: 24454, Stop: 25278, Start Num: 48
Candidate Starts for Yorick_24:

(22, 24394), (Start: 48 @24454 has 174 MA's), (68, 24481), (83, 24502), (104, 24535), (122, 24568), (203, 24895),

Gene: Zaka_8 Start: 4661, Stop: 5359, Start Num: 23
Candidate Starts for Zaka_8:
(Start: 23 @4661 has 50 MA's), (239, 5165), (298, 5351),

Gene: Zarafa_5 Start: 2922, Stop: 3572, Start Num: 31
Candidate Starts for Zarafa_5:
(Start: 31 @2922 has 421 MA's), (142, 3105), (200, 3297), (247, 3417),

Gene: Zeeculate_35 Start: 28799, Stop: 29602, Start Num: 48
Candidate Starts for Zeeculate_35:
(Start: 48 @28799 has 174 MA's), (Start: 76 @28835 has 1 MA's), (112, 28877), (144, 28964), (203, 29219), (226, 29270), (266, 29447),

Gene: Zerg_24 Start: 24231, Stop: 25055, Start Num: 48
Candidate Starts for Zerg_24:
(22, 24171), (Start: 48 @24231 has 174 MA's), (83, 24279), (122, 24345), (203, 24672), (302, 25038),

Gene: Zetzy_5 Start: 2721, Stop: 3356, Start Num: 31
Candidate Starts for Zetzy_5:
(Start: 31 @2721 has 421 MA's), (148, 2934), (181, 3024),

Gene: Zizzle_24 Start: 24398, Stop: 25222, Start Num: 48
Candidate Starts for Zizzle_24:
(Start: 48 @24398 has 174 MA's), (83, 24446), (104, 24479), (122, 24512), (203, 24839),

Gene: Zolita_4 Start: 3697, Stop: 4401, Start Num: 41
Candidate Starts for Zolita_4:
(Start: 31 @3679 has 421 MA's), (Start: 41 @3697 has 6 MA's), (Start: 84 @3745 has 2 MA's), (99, 3766), (142, 3862),

Gene: Zulu_8 Start: 4661, Stop: 5359, Start Num: 23
Candidate Starts for Zulu_8:
(Start: 23 @4661 has 50 MA's), (138, 4862), (239, 5165), (298, 5351),