Pham 330291

1: DustyMartin_6 + 3
2: Eaglepride_6
3: Goose_5 + 1
4: WalterMcMickey_5 + 1
5: Rebeuca_6 + 1
6: Edison31_5
7: OKCentral2016_5
8: Topanga_5
9: Wolpertinger_7 + 12
10: MaCh_8 + 8
11: Fibonacci_8 + 5
12: Steamy_8
13: Phiei_5
14: Sunnee_32
15: Jeeves_32
16: SororFago_32
17: Epsocamisio_8 + 6
18: Strosahl_8 + 1
19: EagleEye_8
20: PainterBoy_8 + 1
21: 40AC_9
22: MyraDee_5
23: NicoleTera_8
24: SwimSquare_33
25: Lokk_9 + 1
26: Superchunk_31 + 1
27: AnnaL29_8
28: Odin_31
29: Loser_8
30: KingCyrus_34
31: C3_30 + 4
32: Changeling_8
33: Leogarna_8 + 1
34: Journey13_30
35: Phs_33
36: Kodiack_33
37: Pomar16_35 + 8
38: Jaan_8 + 1
39: Colin_9 + 1
40: Miko_9
41: ArcherNM_8
42: ForesterFrank_7
43: Kalpine_8
44: Acolyte_32
45: GaugeLDP_8
46: IronMan_8
47: Hellalump_9
48: Adzzy_33
49: MajorMajor_31 + 4
50: LionsBait_8 + 1

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51: Landor_8 + 1
52: VC3_35
53: Che12_34
54: Pukovnik_8
55: Tristan_8
56: Malec_33
57: Prudy_7
58: BabyBack_8
59: EZMoney23_8
60: TipsytheTRex_31
61: RedRock_8
62: Trixie_8
63: Najr_35
64: NothingSpecial_7
65: MissWhite_32
66: L5_32
67: BobSwaget_9
68: Anthony_5
69: FatCactus_5
70: Kinmap_33
71: Chargerpower_33
72: Gml_5 + 16
73: SoilDragon_5 + 1
74: Todacoro_5 + 13
75: Rockstar_5 + 5
76: Marchesa_5 + 5
77: BabyRay_5
78: Chiqui_4 + 1
79: Croquant_6 + 21
80: GooseID_5 + 3
81: Kalnoky_6 + 11
82: Tiffany_5 + 2
83: Clammy_4 + 6
84: AugsMagnumOpus_7 + 10
85: Puppy_5
86: Reba_6 + 2
87: GingkoMaracino_5 + 2
88: Louie6_5
89: TNguyen7_5 + 1
90: ClownCar_5
91: Scout_5
92: Zetzy_5
93: MuchMore_7
94: Cat_4
95: Phantastic_5
96: Margo_5
97: Heliosoles_5
98: MA5_5
99: PhishRPhriends_5
100: LittleGuy_5 + 2

Pham 330291

101: Phacado_5 + 93
102: Huxley_5
103: Cintron_5 + 5
104: Wile_5 + 12
105: LittleB_5
106: Cindaradix_5
107: Stasia_5
108: TiroTheta9_5 + 6
109: Obama12_5 + 7
110: Koreni_5
111: Ulysses_5
112: Relief_5
113: AvatarAnPeg_5 + 2
114: Camperdownii_5
115: Shygu2_5 + 1
116: Deano_5
117: Arturo_4
118: DirtyDunning_5 + 1
119: Spino_5
120: Alberto7_5
121: JoongJeon_5
122: Tarynearal_4 + 12
123: Aragog_5 + 3
124: Tiger_5 + 1
125: Discoknowium_5 + 1
126: Florence1_5 + 2
127: MarysWell_4 + 1
128: SyuNat_5
129: Ghouliboy_5
130: Thela_4
131: VohminGhazi_8 + 44
132: Zulu_8 + 2
133: Phamo_8 + 1
134: Root_8
135: Isiphiwo_8
136: Stephig9_5 + 4
137: Dixon_5 + 3
138: Danforth_4 + 1
139: NearlyHeadless_5
140: Darrell_8
141: Mamihlaina_8 + 2
142: Yecey3_33
143: RyeScarlet_9 + 12
144: Priya_8 + 2
145: Kloolith_32 + 1
146: LoneWolf_8
147: CogOmlette_30 + 4
148: Phaeder_8 + 9
149: SheaKeira_32
150: MegTheThird_32 + 1

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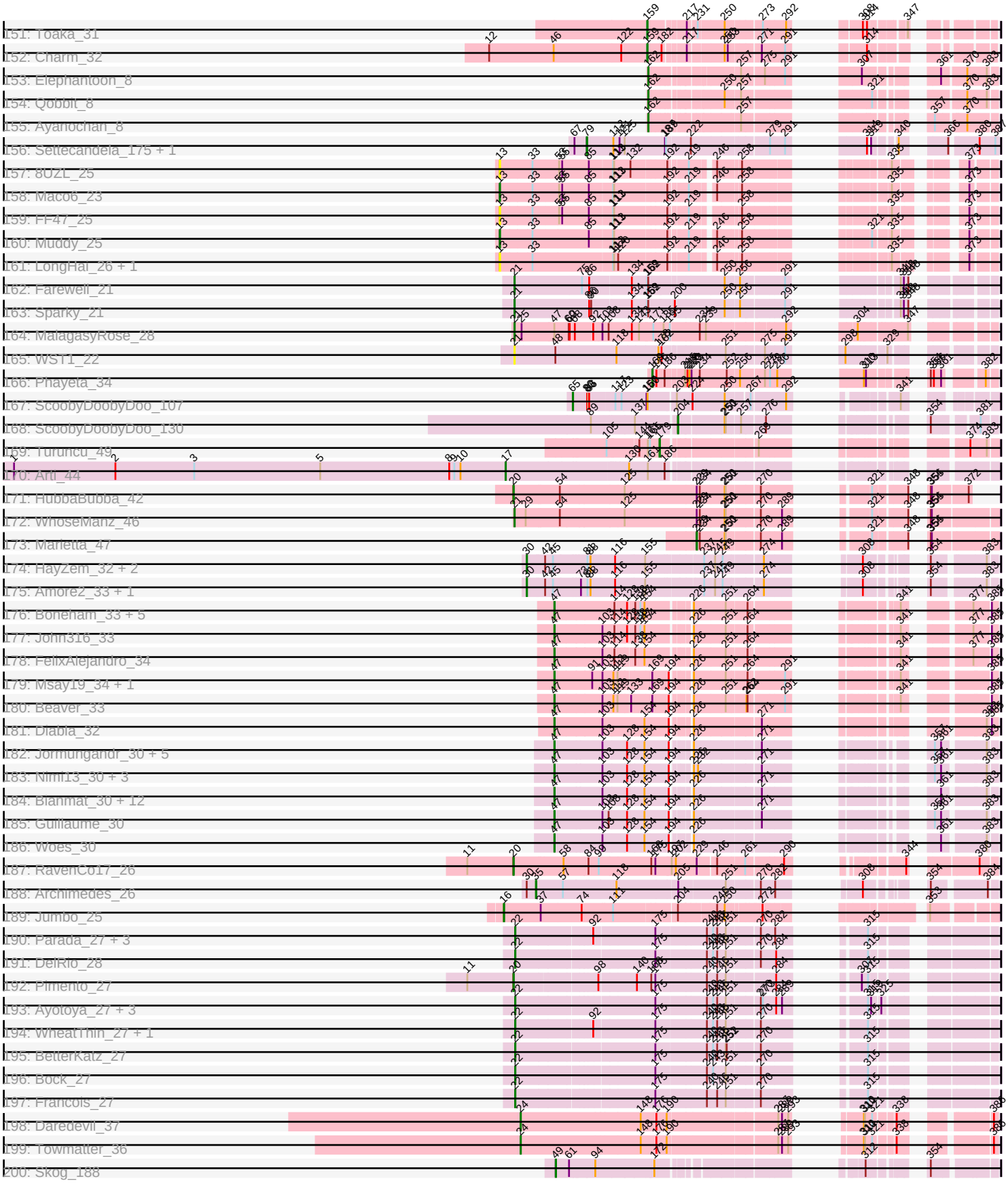
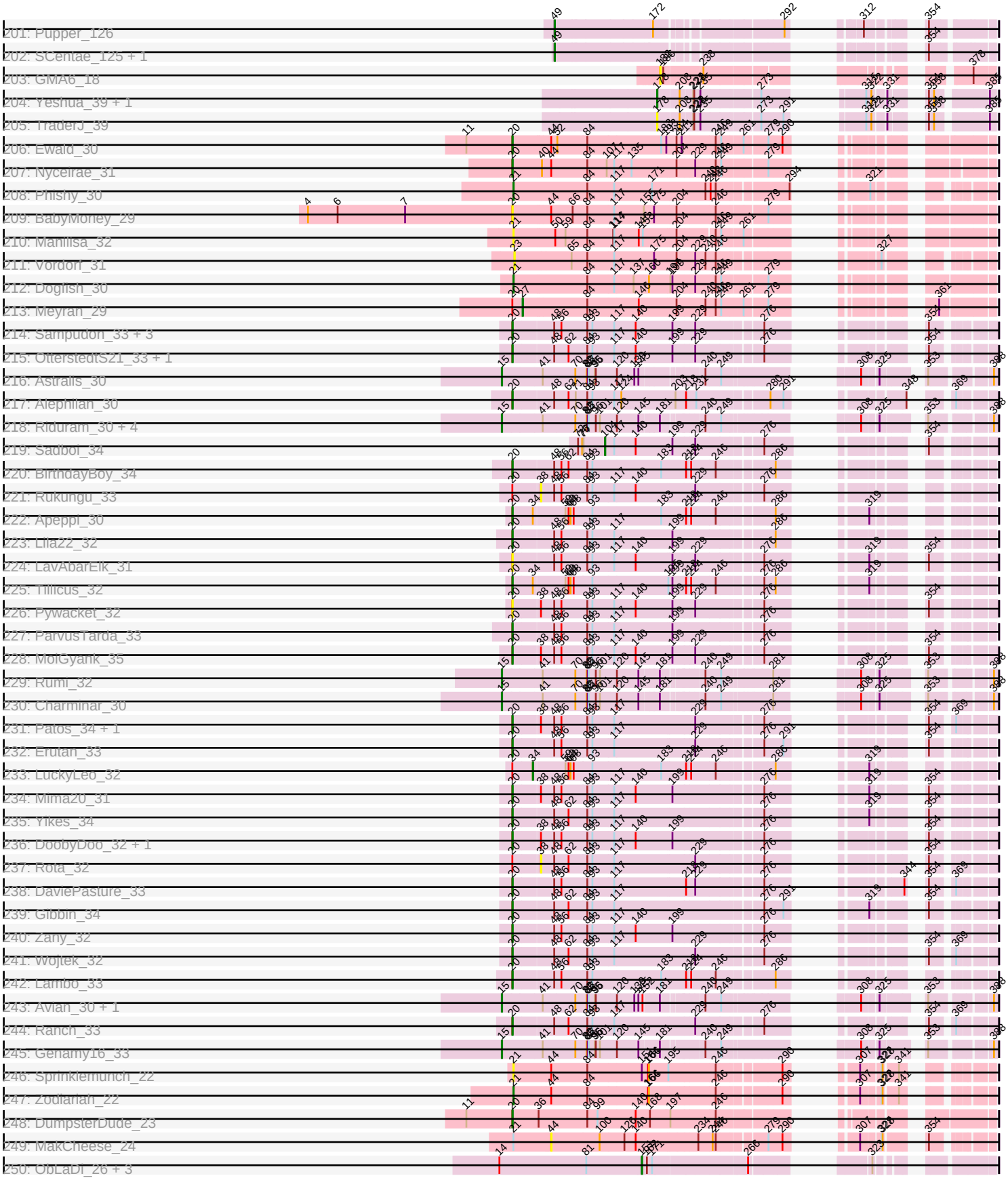

151: Toaka_31
152: Charm_32
153: Elephantoon_8
154: Qobbit_8
155: Ayanochan_8
156: Settecandela_175 + 1
157: 8UZL_25
158: Maco6_23
159: FF47_25
160: Muddy_25
161: LongHal_26 + 1
162: Farewell_21
163: Sparky_21
164: MalagasyRose_28
165: WST1_22
166: Phayeta_34
167: ScoobyDoobyDoo_107
168: ScoobyDoobyDoo_130
169: Turuncu_49
170: Arti_44
171: HubbaBubba_42
172: WhoseManz_46
173: Marietta_47
174: HayZem_32 + 2
175: Amore2_33 + 1
176: Boneham_33 + 5
177: John316_33
178: FelixAlejandro_34
179: MSay19_34 + 1
180: Beaver_33
181: Diabla_32
182: Jormungandr_30 + 5
183: Nimi13_30 + 3
184: Bianmat_30 + 12
185: Guillaume_30
186: Woes_30
187: RavenC017_26
188: Archimedes_26
189: Jumbo_25
190: Parada_27 + 3
191: DelRio_28
192: Pimento_27
193: Ayotoya_27 + 3
194: WheatThin_27 + 1
195: BetterKatz_27
196: Bock_27
197: Francois_27
198: Daredevil_37
199: Towmatter_36
200: Skog_188

Pham 330291


201: Pupper_126
202: SCentae_125 + 1
203: GMA6_18
204: Yeshua_39 + 1
205: TraderJ_39
206: Ewald_30
207: Nycelrae_31
208: Phishy_30
209: BabyMoney_29
210: Manlisa_32
211: Vordon_31
212: Dogfish_30
213: Meyran_29
214: Sampuddin_33 + 3
215: OtterstedtS21_33 + 1
216: Astralis_30
217: Alephilan_30
218: Riddram_30 + 4
219: Saddol_34
220: BirthdayBoy_34
221: Rukungu_33
222: Apeppi_30
223: Lila22_32
224: LavAbarElk_31
225: Tillicus_32
226: Pywacket_32
227: ParvusTarda_33
228: MolGyank_35
229: Rumi_32
230: Charminar_30
231: Patos_34 + 1
232: Erutan_33
233: LuckyLeo_32
234: Mima20_31
235: Yikes_34
236: DoobyDoo_32 + 1
237: Rota_32
238: DaviePasture_33
239: Gibbin_34
240: Zany_32
241: Wojtek_32
242: Lambo_33
243: Avian_30 + 1
244: Ranch_33
245: Genamy16_33
246: Sprinklemunch_22
247: Zodiarian_22
248: DumpsterDude_23
249: MakCheese_24
250: ObLaDi_26 + 3

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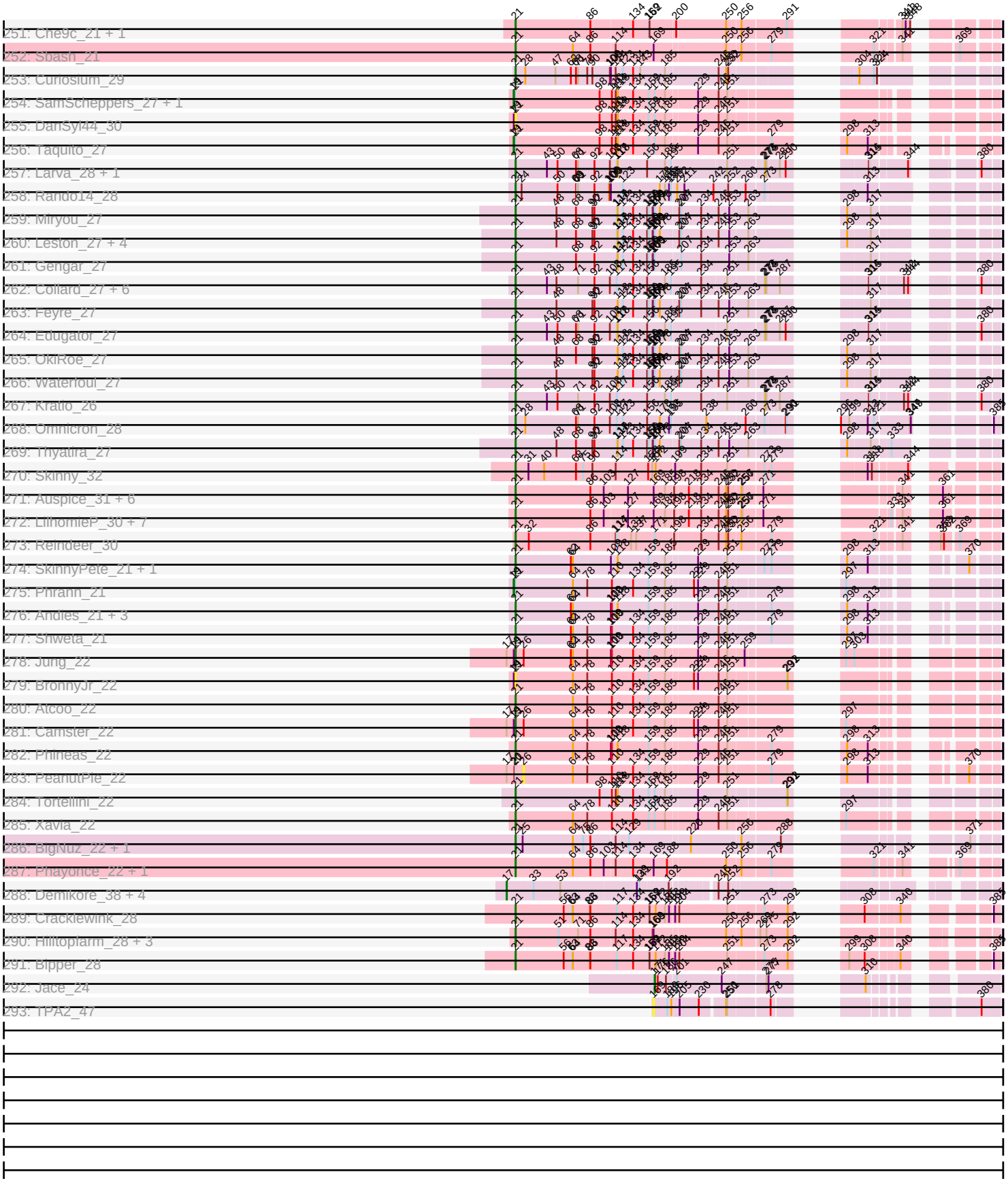
251: Che9c_21 + 1
252: Sbash_21
253: Curiosium_29
254: SamScheppers_27 + 1
255: DanSyl44_30
256: Taquito_27
257: Larva_28 + 1
258: Rando14_28
259: Mlryou_27
260: Leston_27 + 4
261: Gengar_27
262: Collard_27 + 6
263: Feyre_27
264: Edugator_27
265: OkiRoe_27
266: Waterfoul_27
267: Kratio_26
268: Omnicron_28
269: Thyatira_27
270: Skinny_32
271: Auspice_31 + 6
272: LilnomieP_30 + 7
273: Reindeer_30
274: SkinnyPete_21 + 1
275: Phrann_21
276: Andies_21 + 3
277: Shweta_21
278: Jung_22
279: BronnyJr_22
280: Atcoo_22
281: Camster_22
282: Phineas_22
283: PeanutPie_22
284: Tortellini_22
285: Xavia_22
286: BigNuz_22 + 1
287: Phayonce_22 + 1
288: Demikore_38 + 4
289: Cracklewink_28
290: Hilltopfarm_28 + 3
291: Bipper_28
292: Jace_24
293: 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 330291 Report

This analysis was run 09/05/26 on database version 662.

Pham number 330291 has 782 members, 97 are drafts.

Phages represented in each track:
• Track 1 : DustyMartin_6, Rowdy_6, RhynO_5, Shapes_6
• Track 2 : Eaglepride_6
• Track 3 : Goose_5, Chupacabra_5
• Track 4 : WalterMcMickey_5, Twister_5
• Track 5 : Rebeuca_6, Kristoff_6
• Track 6 : Edison31_5
• Track 7 : OKCentral2016_5
• Track 8 : Topanga_5
• Track 9 : Wolpertinger_7, Sham4_8, Et2Brutus_7, Ebony_8, Saskia_8, Lucivia_8, TinyTimmy_8, Kimba_8, Petersenfast_8, Insomnia_8, Mabel_8, Orange_8, Jabith_8
• Track 10 : MaCh_8, Flaverint_8, Aneem_8, Bowtie_8, Munch_8, Joselito_8, Gilberta_8, Bachome_8, Timothy_8
• Track 11 : Fibonacci_8, Hutc2_8, Mulciber_8, Bud_8, Salz_8, Snape_8
• Track 12 : Steamy_8
• Track 13 : Phlei_5
• Track 14 : Sunhee_32
• Track 15 : Jeeves_32
• Track 16 : SororFago_32
• Track 17 : Epsocamisio_8, Boohoo_8, JSwag_8, Nebulosus_8, LastResort_8, Anaysia_8, ReMo_8
• Track 18 : Strosahl_8, Remus_8
• Track 19 : EagleEye_8
• Track 20 : PainterBoy_8, Lucyedi_8
• Track 21 : 40AC_9
• Track 22 : MyraDee_5
• Track 23 : NicoleTera_8
• Track 24 : SwirlSquare_33
• Track 25 : Lokk_9, Rachaly_9
• Track 26 : Superchunk_31, Caraxes_31
• Track 27 : AnnaL29_8
• Track 28 : Odin_31
• Track 29 : Loser_8
• Track 30 : KingCyrus_34
• Track 31 : C3_30, AN9_35, AN3_32, VA6_32, ANI8_35
• Track 32 : Changeling_8
• Track 33 : Leogania_8, BiancaTri92_8
• Track 34 : Journey13_30

• Track 35 : Ph8s_33
• Track 36 : Koduck_33
• Track 37 : Pomar16_35, D29_32, Tomathan_35, DBQu4n_35, Travvers_35, StarStuff_35, Duplo_35, Kerberos_35, D32_35
• Track 38 : Jaan_8, Phaded_8
• Track 39 : Colin_9, WeiHuaDA_9
• Track 40 : Miko_9
• Track 41 : ArcherNM_8
• Track 42 : ForesterFrank_7
• Track 43 : Kalpine_8
• Track 44 : Acolyte_32
• Track 45 : GaugeLDP_8
• Track 46 : IronMan_8
• Track 47 : Heffalump_9
• Track 48 : Adzzy_33
• Track 49 : MajorMajor_31, Jsquared_31, Bradman_31, Quokka_30, Serenity_31
• Track 50 : LionsBait_8, HippoHollow_8
• Track 51 : Landor_8, Bactobuster_8
• Track 52 : VC3_35
• Track 53 : Che12_34
• Track 54 : Pukovnik_8
• Track 55 : Tristan_8
• Track 56 : Malec_33
• Track 57 : Prudy_7
• Track 58 : BabyBack_8
• Track 59 : EZMoney23_8
• Track 60 : TipsytheTRex_31
• Track 61 : RedRock_8
• Track 62 : Trixie_8
• Track 63 : Naji_35
• Track 64 : NothingSpecial_7
• Track 65 : MissWhite_32
• Track 66 : L5_32
• Track 67 : BobSwaget_9
• Track 68 : Anthony_5
• Track 69 : FatCactus_5
• Track 70 : Kinmap_33
• Track 71 : Chargerpower_33
• Track 72 : Grif_5, Phoxy_5, TinyPebbles_5, Soshari_7, Spike509_5, Methuselah_5, Vix_5, Grum1_5, Daishi_5, LarryKay_5, Misomonster_7, KADY_6, Bxz2_5, BuzzBuzz_4, AgronaGT15_5, Rummer_5, HashRod_6
• Track 73 : SoilDragon_5, Jobu08_5
• Track 74 : 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 75 : Rockstar_5, MK4_5, Isca_5, B1_04, JF4_5, JF2_5
• Track 76 : Marchesa_5, DropBear_5, Heathen_5, HelDan_5, Zarafa_5, Kachowdy_5
• Track 77 : BabyRay_5
• Track 78 : Chiqui_4, BabyJohn_4
• Track 79 : Croquant_6, JenCasNa_5, Cullens_5, PotatoSplit_6, MoneyMay_5, Fernando_5, LBerry_5, Bigflo_5, Phoebe_5, Colbster_5, EpicPhail_5, Marie_5, Beauxregard13_5, Taurus_5, Penny1_5, Montavir_4, Sabinator_5, P28Green_5, JHC117_5, LugYA_7, Hercules11_5, Gwennie_5

• Track 80 : Goose1D_5, Goose1X_5, Shep_5, Fred313_5
• Track 81 : 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 82 : Tiffany_5, Stagni_5, Snickers_5
• Track 83 : Clammy_4, Pistachio_5, BlueBird_5, Bugatti_4, Giroux_5, Idleandcovert_4, SaturnRing_4
• Track 84 : AugsMagnumOpus_7, Lowa_5, DaHudson_5, PGHhamlin_7, MarQuardt_5, Microwolf_5, Watson_5, Malinsilva_7, Lilith_5, Pembroke_5, Farber_5
• Track 85 : Puppy_5
• Track 86 : Reba_6, JeppNRM_6, Phranny_6
• Track 87 : GingkoMaracino_5, Ollie_5, Anubis_7
• Track 88 : Louie6_5
• Track 89 : TNguyen7_5, Roimos_5
• Track 90 : ClownCar_5
• Track 91 : Scout_5
• Track 92 : Zetzy_5
• Track 93 : MuchMore_7
• Track 94 : Cat_4
• Track 95 : Phantastic_5
• Track 96 : Margo_5
• Track 97 : Heliosoles_5
• Track 98 : MA5_5
• Track 99 : PhishRPhriends_5
• Track 100 : LittleGuy_5, Nyxis_5, Phontbonne_5
• Track 101 : Phacado_5, KFPoly_5, HamSlice_4, Kampy_5, Eros_5, Lorenzo_5, TroyPia_5, Ohfah_5, Sultana_5, Sabertooth_5, SteMason_5, Clarenza_5, CentreCat_5, JetBlade_5, Ruin_5, Kratark_5, Eagle_4, Connomayer_5, Iceman_5, Mazhar510_5, Albee_5, Bombshell_5, Maverick_5, Palestino_5, Annyong_5, Phelipe_5, Peaches_5, ICleared_5, Avle17_5, BellusTerra_5, Wizard007_5, MeeZee_5, LeoAvram_5, OKaNui_5, Cocoaberry_5, Millski_5, Commander_5, TygerBlood_5, Buckaroo_4, Chaph_5, Gadost_5, NorthStar_5, Blackmoor_5, Baby16_5, Melvin_5, Wilbur_5, Kingmustik0402_5, Mayonnaise_5, Pipcraft_5, Holli_5, Polymorphads_5, Medusa_5, Taquarus_5, YoSam321_5, Citius_5, Sparxx_5, Caelakin_5, Kyee_5, TinaFeyge_5, Koan_5, Bartimeaus_5, LappelDuVide_5, Roosevelt_5, Funston_5, Druantia_5, RockieBear_4, KekoraPapaka_4, Dhanush_5, Bruiser_5, SenorClean_5, Junimo_4, Maxo_5, Florean_5, Scamp_5, PeterPeter_5, Lunsford_5, Houdini22_5, Nemo27_5, BubbleTrouble_5, Jaykayelowell_5, Lemur_5, Noelle_5, Romney_5, NotAPhaseMom_5, Shaka_5, Eris_5, Flux_5, Skadoosh_5, Eurydice_5, Thanksgivukkah_5, Morrow_5, Burger_4, Eapen_5, Wander_5
• Track 102 : Huxley_5
• Track 103 : Cintron_5, Pumbaa_5, Phighter1804_5, Iracema64_5, Kremtemulon_5, LochMonster_5
• Track 104 : Wile_5, PetiteSangsue_5, Katalie136_5, Perplexer_5, Cici_5, Badger_5, Xena_5, Datway_5, Morpher26_5, Achebe_5, Backyardigan_5, AbbysRanger_5, Bumblebee11_5
• Track 105 : LittleB_5
• Track 106 : Cindaradix_5
• Track 107 : Stasia_5
• Track 108 : TiroTheta9_5, Rocksand_5, Northrop_5, Broseidon_5, Nebs_5, Skipitt_5, Abdiel_5
• Track 109 : Obama12_5, Rosa24_4, LHTSCC_5, SheldonCooper_5, ChampagnePapi_5, Tinybot_4, BangNhom_4, Cerulean_5

• Track 110 : Koreni_5
• Track 111 : Ulysses_5
• Track 112 : Relief_5
• Track 113 : AvatarAhPeg_5, Stink_5, Miramae_5
• Track 114 : Camperdownii_5
• Track 115 : Shygu2_5, Happiness_5
• Track 116 : Deano_5
• Track 117 : Arturo_4
• Track 118 : DirtyDunning_5, Mundrea_5
• Track 119 : Spino_5
• Track 120 : Alberto7_5
• Track 121 : JoongJeon_5
• Track 122 : Tarynearal_4, Milcery_5, Cuco_5, Coog_5, Bonamassa_5, Midas2_5, Twigg_5, HuhtaEnerson15_5, George_4, Prinashe11_5, Micasa_5, Swirley_5, LittleCherry_5
• Track 123 : Aragog_5, AgentM_5, Jovo_5, Phlorence_5
• Track 124 : Tiger_5, Archetta_5
• Track 125 : Discoknowium_5, Bluefalcon_4
• Track 126 : Florence1_5, Florence4_6, UnionJack_5
• Track 127 : MarysWell_4, Dublin_4
• Track 128 : SydNat_5
• Track 129 : Ghoulboy_5
• Track 130 : Theia_4
• Track 131 : VohminGhazi_8, ToneTone_7, Dorothea_8, SuperAwesome_8, Indra_8, DaVinci_8, DelvinSonDorr_7, Garak_8, BennyP_8, Helmet_8, Artemis2UCLA_8, EricB_8, Chartreuse_8, Gladiator_8, BABullseye_8, SuperCallie99_8, Jeffabunny_8, JewelBug_8, Wiks_8, Kipper29_8, Cookiedough_8, Lilbunny_8, Tucker_8, McFly_8, Koko_8, SmellyB_8, Gruunaga_8, GreedyLawyer_8, Jordennis_8, Temprado_8, WunderPhul_8, Yokurt_8, Roksolana_8, Zaka_8, Hexamo_8, Pmask_8, BlessJoy_8, Blue7_8, Kazan_8, Newrala_8, Imbriano_7, Candra_8, CloudWang3_8, Polyphemus_8, Neeharika16_8
• Track 132 : Zulu_8, Rifter_8, Hammer_8
• Track 133 : Priamo_8, Blinn1_8
• Track 134 : Hoot_8
• Track 135 : Isiphiwo_8
• Track 136 : Stephig9_5, Expelliarmus_4, Phillis_5, Groundhog_4, Roary_5
• Track 137 : Dixon_5, Smeadley_5, Astro_5, Caitlin_5
• Track 138 : Danforth_4, Saintus_5
• Track 139 : NearlyHeadless_5
• Track 140 : Darrell_8
• Track 141 : Maminiaina_8, BogosyJay_8, Alma_8
• Track 142 : Yecey3_33
• Track 143 : RyeScarlet_9, Onglai_7, ExplosioNervosa_8, Ugenie5_6, Hanray_7, Scherzo_8, EmyBug_8, Jiawan_7, Pioneer_8, Beemo_8, Holex_7, Phonnegut_8, Fayely_8
• Track 144 : Priya_8, Conquerage_8, Eidsmoe_8
• Track 145 : Klodlith_32, DreamTeam1_32
• Track 146 : LoneWolf_8
• Track 147 : CogOmlette_30, Bellris_31, Rahalelujah_31, Minispark_30, WorldCup_30
• Track 148 : Phaeder_8, HortumSL17_8, Tubs_8, Aliter_8, Myxus_8, EdogawaKiddo_6, Lilleskat_6, PackMan_8, Catalina_8, Sachima_6
• Track 149 : SheaKeira_32

• Track 150 : MegTheThird_32, Celestialunch_31
• Track 151 : Toaka_31
• Track 152 : Charm_32
• Track 153 : Elephantoon_8
• Track 154 : Qobbit_8
• Track 155 : Ayanochan_8
• Track 156 : Settecandela_175, Phrappuccino_175
• Track 157 : 8UZL_25
• Track 158 : Maco6_23
• Track 159 : FF47_25
• Track 160 : Muddy_25
• Track 161 : LongHai_26, Salvus_26
• Track 162 : Farewell_21
• Track 163 : Sparky_21
• Track 164 : MalagasyRose_28
• Track 165 : WST1_22
• Track 166 : Phayeta_34
• Track 167 : ScoobyDoobyDoo_107
• Track 168 : ScoobyDoobyDoo_130
• Track 169 : Turuncu_49
• Track 170 : Arti_44
• Track 171 : HubbaBubba_42
• Track 172 : WhoseManz_46
• Track 173 : Marietta_47
• Track 174 : HayZem_32, GMA7_23, Austin_33
• Track 175 : Amore2_33, GTE7_23
• Track 176 : Boneham_33, CinnamonToast_34, Butterball_33, BirksAndSocks_33, Jellybones_33, BillyBobJr_34
• Track 177 : John316_33
• Track 178 : FelixAlejandro_34
• Track 179 : Msay19_34, Poland_34
• Track 180 : Beaver_33
• Track 181 : Diabla_32
• Track 182 : Jormungandr_30, Sticker17_30, Damp_30, Luker_31, Harambe_30, Lahirium_30
• Track 183 : Nimi13_30, Neoevie_30, Hail2Pitt_30, Anamika_30
• Track 184 : Bianmat_30, GalacticEye_30, Minos_31, Hello_30, Kaseim_30, Newt_31, Lidong_30, Teal_30, Shelley_30, Jams_30, Berries_30, Charianelly_30, MrWormie_30
• Track 185 : Guillaume_30
• Track 186 : Woes_30
• Track 187 : RavenCo17_26
• Track 188 : Archimedes_26
• Track 189 : Jumbo_25
• Track 190 : Parada_27, Brylie_27, Mulch_27, NancyRae_27
• Track 191 : DelRio_28
• Track 192 : Pimento_27
• Track 193 : Ayotoya_27, Hamood_27, Chop_27, GrandSlam_27
• Track 194 : WheatThin_27, Nadeem_27
• Track 195 : BetterKatz_27
• Track 196 : Bock_27
• Track 197 : Francois_27
• Track 198 : Daredevil_37

• Track 199 : Towmatter_36
• Track 200 : Skog_188
• Track 201 : Pupper_126
• Track 202 : SCentae_125, CherryTomatoes_125
• Track 203 : GMA6_18
• Track 204 : Yeshua_39, Wooper_39
• Track 205 : TraderJ_39
• Track 206 : Ewald_30
• Track 207 : Nyceirae_31
• Track 208 : Phishy_30
• Track 209 : BabyMoney_29
• Track 210 : Manilisa_32
• Track 211 : Vordorf_31
• Track 212 : Dogfish_30
• Track 213 : Meyran_29
• Track 214 : Sampudon_33, GOATification_34, Fulcrum_34, Jalebi_32
• Track 215 : OtterstedtS21_33, GretelLyn_33
• Track 216 : Astralis_30
• Track 217 : Alephilan_30
• Track 218 : Riduram_30, Jamemuya19_30, NovaSharks_32, Alyssamiracle_33, RazorC_31
• Track 219 : Sadboi_34
• Track 220 : BirthdayBoy_34
• Track 221 : Rukungu_33
• Track 222 : Apeppi_30
• Track 223 : Lila22_32
• Track 224 : LavAbarElk_31
• Track 225 : Tillicus_32
• Track 226 : Pywacket_32
• Track 227 : ParvusTarda_33
• Track 228 : MoiGyank_35
• Track 229 : Rumi_32
• Track 230 : Charminar_30
• Track 231 : Patos_34, NorManre_34
• Track 232 : Erutan_33
• Track 233 : LuckyLeo_32
• Track 234 : Mima20_31
• Track 235 : Yikes_34
• Track 236 : DoobyDoo_32, Nettle_34
• Track 237 : Rota_32
• Track 238 : DaviePasture_33
• Track 239 : Gibbin_34
• Track 240 : Zany_32
• Track 241 : Wojtek_32
• Track 242 : Lambo_33
• Track 243 : Avian_30, Stormer_31
• Track 244 : Ranch_33
• Track 245 : Genamy16_33
• Track 246 : Sprinklemunch_22
• Track 247 : Zodiariah_22
• Track 248 : DumpsterDude_23
• Track 249 : MakCheese_24
• Track 250 : ObLaDi_26, Aleemily_25, Cafasso_26, ModicumRichard_26

• Track 251 : Che9c_21, Purky_22
• Track 252 : Sbash_21
• Track 253 : Curiosium_29
• Track 254 : SamScheppers_27, Eponine_29
• Track 255 : DanSyl44_30
• Track 256 : Taquito_27
• Track 257 : Larva_28, Neighly_28
• Track 258 : Rando14_28
• Track 259 : Miryou_27
• Track 260 : Leston_27, SoSeph_27, Heftyboy_27, Paola_27, Guillsminger_27
• Track 261 : Gengar_27
• Track 262 : Collard_27, ViviJ_26, InvictusManeo_27, Agent47_27, LilDirt_26, BananenDer11_27, DoubleChamp_27
• Track 263 : Feyre_27
• Track 264 : Edugator_27
• Track 265 : OkiRoe_27
• Track 266 : Waterfoul_27
• Track 267 : Kratio_26
• Track 268 : Omnicron_28
• Track 269 : Thyatira_27
• Track 270 : Skinny_32
• Track 271 : Auspice_31, Dulcita_32, SlimJimmy_30, Diminimus_32, Izel_32, Glaske16_32, KleverKiS_31
• Track 272 : LilhomieP_30, FreakyGoo_32, IPhane7_31, Bongo_31, TpudiCK_32, Bricole_31, TyDawg_31, PegLeg_31
• Track 273 : Reindeer_30
• Track 274 : SkinnyPete_21, Panchino_21
• Track 275 : Phrann_21
• Track 276 : Andies_21, Willsammy_22, Dynamo_22, Scitech_21
• Track 277 : Shweta_21
• Track 278 : Jung_22
• Track 279 : BronnyJr_22
• Track 280 : Atcoo_22
• Track 281 : Camster_22
• Track 282 : Phineas_22
• Track 283 : PeanutPie_22
• Track 284 : Tortellini_22
• Track 285 : Xavia_22
• Track 286 : BigNuz_22, Nazo_22
• Track 287 : Phayonce_22, ThulaThula_22
• Track 288 : Demikore_38, Patience_38, Labelle_37, SuperSonics_37, Madruga_36
• Track 289 : Cracklewink_28
• Track 290 : Hilltopfarm_28, Faiyaz_28, AuntGwenStacy_28, Typha_28
• Track 291 : Bipper_28
• Track 292 : Jace_24
• Track 293 : 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 162, it was called in 386 of the 685 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• 40AC_9, ACFishhook_5, AN3_32, AN9_35, ANI8_35, AbbysRanger_5, Abdiel_5, Achebe_5, Acolyte_32, Adzzy_33, AgronaGT15_5, Albee_5, Alberto7_5, Aliter_8, Alma_8, Aneem_8, AnnaL29_8, Annyong_5, Anthony_5, Anubis_7, ArcherNM_8, Arturo_4, 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, BellusTerra_5, BiancaTri92_8, Bigflo_5, Blackmoor_5, BlueBird_5, Bluefalcon_4, BobSwaget_9, BogosyJay_8, Bombshell_5, Bonamassa_5, Bowtie_8, Broseidon_5, Bruiser_5, BubbleTrouble_5, Buckaroo_4, Bud_8, Bugatti_4, Bumblebee11_5, Burger_4, BuzzBuzz_4, Bxz2_5, C3_30, Caelakin_5, Calvinny_5, Camperdownii_5, Cat_4, Catalina_8, Caviar_5, CentreCat_5, Cerulean_5, ChampagnePapi_5, Changeling_8, Chaph_5, Chargerpower_33, Che12_34, Chiqui_4, Chupacabra_5, Cici_5, Cindaradix_5, Cintron_5, Citius_5, Clammy_4, Clarenza_5, ClownCar_5, Cocoaberry_5, Colbster_5, Colin_9, Commander_5, Connomayer_5, Conquerage_8, Coog_5, Croquant_6, Cuco_5, Cullens_5, D29_32, D32_35, DBQu4n_35, DaHudson_5, Daishi_5, Darrell_8, Datway_5, Deano_5, Dhanush_5, DirtyDunning_5, Discoknowium_5, DreamTeam1_32, DropBear_5, Druantia_5, Dublin_4, Duplo_35, DustyMartin_6, EZMoney23_8, Eagle_4, Eaglepride_6, Eapen_5, Ebony_8, Edison31_5, EdogawaKiddo_6, Eidsmoe_8, Elephantoon_8, EmyBug_8, EpicPhail_5, Eris_5, Eros_5, Et2Brutus_7, EtoileNova_4, Eurydice_5, ExplosioNervosa_8, Farber_5, Fayely_8, Fernando_5, Fibonacci_8, Flaverint_8, Florean_5, Flux_5, ForesterFrank_7, 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, Groupthink_6, Grum1_5, Gwennie_5, HamSlice_4, Hanray_7, Happiness_5, HashRod_6, HaveUMetTed_6, Heathen_5, HelDan_5, Heliosoles_5, Hercules11_5, HippoHollow_8, Holex_7, 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, JenCasNa_5, JeppNRM_6, JetBlade_5, Jiawan_7, 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, Kerberos_35, Kimba_8, Kingmustik0402_5, Klodlith_32, Koan_5, Koduck_33, Koreni_5, Kratark_5, Kremtemulon_5, Kristoff_6, Kyee_5, L5_32, LBerry_5, LHTSCC_5, Lambert1_5, Landor_8, LappelDuVide_5, LarryKay_5, Lemur_5, LeoAvram_5, Leogania_8, Lilith_5, Lilleskat_6, 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, 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, Melvin_5, Methuselah_5, Micasa_5, Microwolf_5, Midas2_5, Miko_9, Milcery_5, Millski_5, Miramae_5, Misomonster_7, MoneyMay_5, Montavir_4, Morpher26_5, Morrow_5, MuchMore_7, Mulciber_8, Munch_8, Mundrea_5, Myxus_8, Naji_35, Nebs_5, Nemo27_5, 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, Ph8s_33, Phacado_5, Phaded_8, Phaeder_8, Phantastic_5,

Phelipe_5, Phighter1804_5, PhishRPhriends_5, Phoebe_5, Phonnegut_8, Phontbonne_5, Phoxy_5, Phranny_6, Pioneer_8, Pipcraft_5, Pistachio_5, Pocahontas_5, Polymorphads_5, Pomar16_35, Popcicle_5, PotatoSplit_6, Prinashe11_5, Priya_8, Prudy_7, Pukovnik_8, Pumbaa_5, Puppy_5, PurpleHaze_5, Qobbit_8, QuinnKiro_4, Rachaly_9, Reba_6, Rebeuca_6, RedRock_8, Relief_5, ResDef_5, RhynO_5, RockieBear_4, Rocksand_5, Rockstar_5, Roimos_5, Romney_5, Roosevelt_5, Rosa24_4, Rowdy_6, Ruin_5, Rummer_5, RyeScarlet_9, Sabertooth_5, Sabinator_5, Sachima_6, 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, Snape_8, Snickers_5, SoilDragon_5, Soshari_7, Sparxx_5, Spike509_5, Spino_5, Stagni_5, StarStuff_35, Stasia_5, SteMason_5, Steamy_8, Stink_5, Sultana_5, SwirlSquare_33, 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, TipsytheTRex_31, TiroTheta9_5, Todacoro_5, Tomathan_35, Topanga_5, Travvers_35, Tristan_8, Trixie_8, TroyPia_5, Tubs_8, Twigg_5, Twister_5, TygerBlood_5, Ugenie5_6, Ulysses_5, VA6_32, VC3_35, Veracruz_4, Vix_5, WalterMcMickey_5, Wander_5, Watson_5, WeiHuaDA_9, Wilbur_5, Wile_5, Wizard007_5, Wolpertinger_7, Xena_5, YoSam321_5, Zarafa_5, Zetzy_5,

Genes that have the "Most Annotated" start but do not call it:
• AgentM_5, Aleemily_25, Aragog_5, Bipper_28, Cafasso_26, Caraxes_31, Che9c_21, Cracklewink_28, Farewell_21, Jovo_5, ModicumRichard_26, ObLaDi_26, Phlorence_5, Purky_22, Sparky_21, Superchunk_31, SydNat_5,

Genes that do not have the "Most Annotated" start:
• 8UZL_25, Agent47_27, Alephilan_30, Alyssamiracle_33, Amore2_33, Anamika_30, Anaysia_8, Andies_21, Apeppi_30, Archetta_5, Archimedes_26, Artemis2UCLA_8, Arti_44, Astralis_30, Astro_5, Atcoo_22, AuntGwenStacy_28, Auspice_31, Austin_33, Avian_30, Ayotoya_27, BABullseye_8, BabyMoney_29, BananenDer11_27, Beaver_33, Bellris_31, BennyP_8, Berries_30, BetterKatz_27, Bianmat_30, BigNuz_22, BillyBobJr_34, BirksAndSocks_33, BirthdayBoy_34, BlessJoy_8, Blinn1_8, Blue7_8, Bock_27, Boneham_33, Bongo_31, Boohoo_8, Bradman_31, Bricole_31, BronnyJr_22, Brylie_27, Butterball_33, Caitlin_5, Camster_22, Candra_8, Celestialunch_31, Charianelly_30, Charm_32, Charminar_30, Chartreuse_8, CherryTomatoes_125, Chop_27, CinnamonToast_34, CloudWang3_8, CogOmlette_30, Collard_27, Cookiedough_8, Curiosium_29, DaVinci_8, Damp_30, DanSyl44_30, Danforth_4, Daredevil_37, DaviePasture_33, DelRio_28, DelvinSonDorr_7, Demikore_38, Diabla_32, Diminimus_32, Dixon_5, Dogfish_30, DoobyDoo_32, Dorothea_8, DoubleChamp_27, Dulcita_32, DumpsterDude_23, Dynamo_22, EagleEye_8, Edugator_27, Eponine_29, Epsocamisio_8, EricB_8, Erutan_33, Ewald_30, Expelliarmus_4, FF47_25, Faiyaz_28, FatCactus_5, FelixAlejandro_34, Feyre_27, Florence1_5, Florence4_6, Francois_27, FreakyGoo_32, Fulcrum_34, GMA6_18, GMA7_23, GOATification_34, GTE7_23, GalacticEye_30, Garak_8, Genamy16_33, Gengar_27, Gibbin_34, Gladiator_8, Glaske16_32, GrandSlam_27, GreedyLawyer_8, GretelLyn_33, Groundhog_4, Gruunaga_8, Guillaume_30, Guillsminger_27, Hail2Pitt_30, Hammer_8, Hamood_27, Harambe_30, HayZem_32, Heffalump_9, Heftyboy_27, Hello_30, Helmet_8, Hexamo_8, Hilltopfarm_28, Hoot_8, HubbaBubba_42, IPhane7_31, Imbriano_7, Indra_8, InvictusManeo_27, Isiphiwo_8, Izel_32, JSwag_8, Jace_24, Jalebi_32, Jamemuya19_30, Jams_30, Jeeves_32, Jeffabunny_8, Jellybones_33, JewelBug_8, John316_33, Jordennis_8, Jormungandr_30, Journey13_30, Jsquared_31, Jumbo_25, Jung_22, Kaseim_30, Kazan_8, KingCyrus_34, Kinmap_33, Kipper29_8,

KleverKiS_31, Koko_8, Kratio_26, Labelle_37, Lahirium_30, Lambo_33, Larva_28, LastResort_8, LavAbarElk_31, Leston_27, Lidong_30, LilDirt_26, Lila22_32, Lilbunny_8, LilhomieP_30, LongHai_26, LuckyLeo_32, Lucyedi_8, Luker_31, Maco6_23, Madruga_36, MajorMajor_31, MakCheese_24, MalagasyRose_28, Malec_33, Manilisa_32, Marietta_47, McFly_8, MegTheThird_32, Meyran_29, Mima20_31, Minispark_30, Minos_31, Miryou_27, MissWhite_32, MoiGyank_35, MrWormie_30, Msay19_34, Muddy_25, Mulch_27, MyraDee_5, Nadeem_27, NancyRae_27, Nazo_22, NearlyHeadless_5, Nebulosus_8, Neeharika16_8, Neighly_28, Neoevie_30, Nettle_34, Newrala_8, Newt_31, NicoleTera_8, Nimi13_30, NorManre_34, NovaSharks_32, Nyceirae_31, Odin_31, OkiRoe_27, Omnicron_28, OtterstedtS21_33, PainterBoy_8, Panchino_21, Paola_27, Parada_27, ParvusTarda_33, Patience_38, Patos_34, PeanutPie_22, PegLeg_31, Phayeta_34, Phayonce_22, Phillis_5, Phineas_22, Phishy_30, Phlei_5, Phrann_21, Phrappuccino_175, Pimento_27, Pmask_8, Poland_34, Polyphemus_8, Priamo_8, Pupper_126, Pywacket_32, Quokka_30, Rahalelujah_31, Ranch_33, Rando14_28, RavenCo17_26, RazorC_31, ReMo_8, Reindeer_30, Remus_8, Riduram_30, Rifter_8, Roary_5, Roksolana_8, Rota_32, Rukungu_33, Rumi_32, SCentae_125, Sadboi_34, Saintus_5, Salvus_26, SamScheppers_27, Sampudon_33, Sbash_21, Scitech_21, ScoobyDoobyDoo_107, ScoobyDoobyDoo_130, Serenity_31, Settecandela_175, Shelley_30, Shweta_21, SkinnyPete_21, Skinny_32, Skog_188, SlimJimmy_30, Smeadley_5, SmellyB_8, SoSeph_27, SororFago_32, Sprinklemunch_22, Stephig9_5, Sticker17_30, Stormer_31, Strosahl_8, Sunhee_32, SuperAwesome_8, SuperCallie99_8, SuperSonics_37, TPA2_47, Taquito_27, Teal_30, Temprado_8, ThulaThula_22, Thyatira_27, Tiger_5, Tillicus_32, Toaka_31, ToneTone_7, Tortellini_22, Towmatter_36, TpudiCK_32, TraderJ_39, Tucker_8, Turuncu_49, TyDawg_31, Typha_28, UnionJack_5, ViviJ_26, VohminGhazi_8, Vordorf_31, WST1_22, Waterfoul_27, WheatThin_27, WhoseManz_46, Wiks_8, Willsammy_22, Woes_30, Wojtek_32, Wooper_39, WorldCup_30, WunderPhul_8, Xavia_22, Yecey3_33, Yeshua_39, Yikes_34, Yokurt_8, Zaka_8, Zany_32, Zodiariah_22, Zulu_8,

Summary by start number:

Start 13:
• Found in 6 of 782 (0.8%) of genes in pham
• Manual Annotations of this start: 2 of 685
• Called 100.0% of time when present
• Phage (with cluster) where this start called: 8UZL_25 (AB), FF47_25 (AB), LongHai_26 (AB), Maco6_23 (AB), Muddy_25 (AB), Salvus_26 (AB),

Start 15:
• Found in 11 of 782 (1.4%) of genes in pham
• Manual Annotations of this start: 11 of 685
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alyssamiracle_33 (DV), Astralis_30 (DV), Avian_30 (DV), Charminar_30 (DV), Genamy16_33 (DV), Jamemuya19_30 (DV), NovaSharks_32 (DV), RazorC_31 (DV), Riduram_30 (DV), Rumi_32 (DV), Stormer_31 (DV),

Start 16:
• Found in 1 of 782 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 685
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Jumbo_25 (DF3),

Start 17:
• Found in 9 of 782 (1.2%) of genes in pham
• Manual Annotations of this start: 4 of 685
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Arti_44 (CR2), Demikore_38 (U), Labelle_37 (U), Madruga_36 (U), Patience_38 (U), SuperSonics_37 (U),

Start 19:
• Found in 8 of 782 (1.0%) of genes in pham
• Manual Annotations of this start: 4 of 685
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Eponine_29 (K4), Phrann_21 (N), SamScheppers_27 (K4), Taquito_27 (K4),

Start 20:
• Found in 40 of 782 (5.1%) of genes in pham
• Manual Annotations of this start: 31 of 685
• Called 87.5% of time when present
• Phage (with cluster) where this start called: Alephilan_30 (DV), Apeppi_30 (DV), BabyMoney_29 (DT), BirthdayBoy_34 (DV), DaviePasture_33 (DV), DoobyDoo_32 (DV), DumpsterDude_23 (DW), Erutan_33 (DV), Ewald_30 (DT), Fulcrum_34 (DV), GOATification_34 (DV), Gibbin_34 (DV), GretelLyn_33 (DV), HubbaBubba_42 (CR4), Jalebi_32 (DV), Lambo_33 (DV), LavAbarElk_31 (DV), Lila22_32 (DV), Mima20_31 (DV), MoiGyank_35 (DV), Nettle_34 (DV), NorManre_34 (DV), Nyceirae_31 (DT), OtterstedtS21_33 (DV), ParvusTarda_33 (DV), Patos_34 (DV), Pimento_27 (DI), Pywacket_32 (DV), Ranch_33 (DV), RavenCo17_26 (CZ8), Sampudon_33 (DV), Tillicus_32 (DV), Wojtek_32 (DV), Yikes_34 (DV), Zany_32 (DV),

Start 21:
• Found in 86 of 782 (11.0%) of genes in pham
• Manual Annotations of this start: 70 of 685
• Called 93.0% of time when present
• Phage (with cluster) where this start called: Agent47_27 (K5), Andies_21 (N), Atcoo_22 (P1), AuntGwenStacy_28 (Y), Auspice_31 (M1), BananenDer11_27 (K5), BigNuz_22 (P4), Bipper_28 (Y), Bongo_31 (M1), Bricole_31 (M1), BronnyJr_22 (P1), Camster_22 (P1), Che9c_21 (I2), Collard_27 (K5), Cracklewink_28 (Y), Curiosium_29 (K1), DanSyl44_30 (K4), Diminimus_32 (M1), Dogfish_30 (DT), DoubleChamp_27 (K5), Dulcita_32 (M1), Dynamo_22 (P1), Edugator_27 (K5), Faiyaz_28 (Y), Farewell_21 (AF), Feyre_27 (K5), FreakyGoo_32 (M1), Gengar_27 (K5), Glaske16_32 (M1), Guillsminger_27 (K5), Heftyboy_27 (K5), Hilltopfarm_28 (Y), IPhane7_31 (M1), InvictusManeo_27 (K5), Izel_32 (M1), Jung_22 (P1), KleverKiS_31 (M1), Kratio_26 (K5), Larva_28 (K5), Leston_27 (K5), LilDirt_26 (K5), LilhomieP_30 (M1), MalagasyRose_28 (AG), Manilisa_32 (DT), Miryou_27 (K5), Nazo_22 (P4), Neighly_28 (K3), OkiRoe_27 (K5), Omnicron_28 (K5), Panchino_21 (N), Paola_27 (K5), PegLeg_31 (M1), Phayonce_22 (P5), Phineas_22 (P1), Phishy_30 (DT), Purky_22 (P6), Rando14_28 (K5), Reindeer_30 (M1), Sbash_21 (I2), Scitech_21 (N), Shweta_21 (N), SkinnyPete_21 (N), Skinny_32 (M1), SlimJimmy_30 (M1), SoSeph_27 (K5), Sparky_21 (AF), Sprinklemunch_22 (DW), ThulaThula_22 (P5), Thyatira_27 (K5), Tortellini_22 (P2), TpudiCK_32 (M1), TyDawg_31 (M1), Typha_28 (Y), ViviJ_26 (K5), WST1_22 (AJ), Waterfoul_27 (K5), WhoseManz_46 (CR4), Willsammy_22 (P1), Xavia_22 (P3), Zodiariah_22 (DW),

Start 22:
• Found in 14 of 782 (1.8%) of genes in pham
• Manual Annotations of this start: 14 of 685
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ayotoya_27 (DI), BetterKatz_27 (DI), Bock_27 (DI), Brylie_27 (DI), Chop_27 (DI), DelRio_28 (DI), Francois_27 (DI), GrandSlam_27 (DI), Hamood_27 (DI), Mulch_27 (DI), Nadeem_27 (DI), NancyRae_27 (DI), Parada_27 (DI), WheatThin_27 (DI),

Start 23:
• Found in 1 of 782 (0.1%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Vordorf_31 (DT),

Start 24:
• Found in 3 of 782 (0.4%) of genes in pham
• Manual Annotations of this start: 2 of 685
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Daredevil_37 (DL), Towmatter_36 (DL),

Start 26:
• Found in 3 of 782 (0.4%) of genes in pham
• No Manual Annotations of this start.
• Called 33.3% of time when present
• Phage (with cluster) where this start called: PeanutPie_22 (P1),

Start 27:
• Found in 1 of 782 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 685
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Meyran_29 (DT),

Start 30:
• Found in 6 of 782 (0.8%) of genes in pham
• Manual Annotations of this start: 3 of 685
• Called 83.3% of time when present
• Phage (with cluster) where this start called: Amore2_33 (CS1), Austin_33 (CS1), GMA7_23 (CS1), GTE7_23 (CS1), HayZem_32 (CS1),

Start 34:
• Found in 3 of 782 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 685
• Called 33.3% of time when present
• Phage (with cluster) where this start called: LuckyLeo_32 (DV),

Start 35:
• Found in 1 of 782 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 685
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Archimedes_26 (DA),

Start 38:
• Found in 9 of 782 (1.2%) of genes in pham
• No Manual Annotations of this start.
• Called 22.2% of time when present
• Phage (with cluster) where this start called: Rota_32 (DV), Rukungu_33 (DV),

Start 44:
• Found in 6 of 782 (0.8%) of genes in pham
• No Manual Annotations of this start.
• Called 16.7% of time when present
• Phage (with cluster) where this start called: MakCheese_24 (DW),

Start 47:
• Found in 39 of 782 (5.0%) of genes in pham
• Manual Annotations of this start: 35 of 685
• Called 94.9% of time when present
• Phage (with cluster) where this start called: Anamika_30 (CS3), Beaver_33 (CS2), Berries_30 (CS3), Bianmat_30 (CS3), BillyBobJr_34 (CS2), BirksAndSocks_33 (CS2), Boneham_33 (CS2), Butterball_33 (CS2), Charianelly_30 (CS3), CinnamonToast_34 (CS2), Damp_30 (CS3), Diabla_32 (CS2), FelixAlejandro_34 (CS2), GalacticEye_30 (CS3), Guillaume_30 (CS3), Hail2Pitt_30 (CS3), Harambe_30 (CS3), Hello_30 (CS3), Jams_30 (CS3), Jellybones_33 (CS2), John316_33 (CS2), Jormungandr_30 (CS3), Kaseim_30 (CS3), Lahirium_30 (CS3), Lidong_30 (CS3), Luker_31 (CS3), Minos_31 (CS3), MrWormie_30 (CS3), Msay19_34 (CS2), Neoevie_30 (CS3), Newt_31 (CS3), Nimi13_30 (CS3), Poland_34 (CS2), Shelley_30 (CS3), Sticker17_30 (CS3), Teal_30 (CS3), Woes_30 (CS3),

Start 49:
• Found in 4 of 782 (0.5%) of genes in pham
• Manual Annotations of this start: 4 of 685
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CherryTomatoes_125 (DO), Pupper_126 (DO), SCentae_125 (DO), Skog_188 (DO),

Start 54:
• Found in 4 of 782 (0.5%) of genes in pham
• Manual Annotations of this start: 2 of 685
• Called 50.0% of time when present
• Phage (with cluster) where this start called: KingCyrus_34 (A2), SororFago_32 (A14),

Start 65:
• Found in 2 of 782 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 685
• Called 50.0% of time when present
• Phage (with cluster) where this start called: ScoobyDoobyDoo_107 (C2),

Start 79:
• Found in 2 of 782 (0.3%) of genes in pham
• Manual Annotations of this start: 2 of 685
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Phrappuccino_175 (AA), Settecandela_175 (AA),

Start 104:
• Found in 1 of 782 (0.1%) of genes in pham
• Manual Annotations of this start: 1 of 685
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Sadboi_34 (DV),

Start 141:
• Found in 10 of 782 (1.3%) of genes in pham
• Manual Annotations of this start: 3 of 685
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Archetta_5 (A5), Florence1_5 (A5), Florence4_6 (A5), Tiger_5 (A5), UnionJack_5 (A5),

Start 142:
• Found in 52 of 782 (6.6%) of genes in pham
• Manual Annotations of this start: 48 of 685
• Called 100.0% 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_7 (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 149:
• Found in 3 of 782 (0.4%) of genes in pham
• Manual Annotations of this start: 3 of 685
• Called 100.0% of time when present
• Phage (with cluster) where this start called: EagleEye_8 (A16), Lucyedi_8 (A16), PainterBoy_8 (A16),

Start 151:
• Found in 6 of 782 (0.8%) of genes in pham
• Manual Annotations of this start: 5 of 685
• Called 83.3% of time when present
• Phage (with cluster) where this start called: Aleemily_25 (DZ), Cafasso_26 (DZ), ModicumRichard_26 (DZ), MyraDee_5 (A18), ObLaDi_26 (DZ),

Start 159:
• Found in 56 of 782 (7.2%) of genes in pham
• Manual Annotations of this start: 11 of 685
• Called 30.4% of time when present
• Phage (with cluster) where this start called: Bellris_31 (A9), Caraxes_31 (A2), Celestialunch_31 (A9), Charm_32 (A9), CogOmlette_30 (A9), Jeeves_32 (A14), Journey13_30 (A2), Kinmap_33 (A21), Malec_33 (A2), MegTheThird_32 (A9), Minispark_30 (A9), MissWhite_32 (A2), Rahalelujah_31 (A9), Sunhee_32 (A14),

Superchunk_31 (A2), Toaka_31 (A9), WorldCup_30 (A9),

Start 162:
• Found in 451 of 782 (57.7%) of genes in pham
• Manual Annotations of this start: 386 of 685
• Called 96.2% of time when present
• Phage (with cluster) where this start called: 40AC_9 (A17), ACFishhook_5 (A3), AN3_32 (A2), AN9_35 (A2), ANI8_35 (A2), AbbysRanger_5 (A4), Abdiel_5 (A4), Achebe_5 (A4), Acolyte_32 (A2), Adzzy_33 (A2), 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), 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), 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), Broseidon_5 (A4), Bruiser_5 (A4), BubbleTrouble_5 (A4), Buckaroo_4 (A4), Bud_8 (A11), Bugatti_4 (A3), Bumblebee11_5 (A4), Burger_4 (A4), BuzzBuzz_4 (A3), Bxz2_5 (A3), C3_30 (A2), Caelakin_5 (A4), Calvinny_5 (A3), Camperdownii_5 (A4), Cat_4 (A3), Catalina_8 (A9), Caviar_5 (A3), CentreCat_5 (A4), Cerulean_5 (A4), ChampagnePapi_5 (A4), Changeling_8 (A2), Chaph_5 (A4), Chargerpower_33 (A22), Che12_34 (A2), Chiqui_4 (A3), Chupacabra_5 (A10), Cici_5 (A4), Cindaradix_5 (A4), Cintron_5 (A4), Citius_5 (A4), Clammy_4 (A3), Clarenza_5 (A4), ClownCar_5 (A3), Cocoaberry_5 (A4), Colbster_5 (A3), Colin_9 (A2), Commander_5 (A4), Connomayer_5 (A4), Conquerage_8 (A9), Coog_5 (A5), Croquant_6 (A3), Cuco_5 (A5), Cullens_5 (A3), D29_32 (A2), D32_35 (A2), DBQu4n_35 (A2), DaHudson_5 (A3), Daishi_5 (A3), Darrell_8 (A9), Datway_5 (A4), Deano_5 (A4), Dhanush_5 (A4), DirtyDunning_5 (A4), Discoknowium_5 (A5), DreamTeam1_32 (A9), DropBear_5 (A3), Druantia_5 (A4), Dublin_4 (A5), Duplo_35 (A2), DustyMartin_6 (A10), EZMoney23_8 (A2), Eagle_4 (A4), Eaglepride_6 (A10), Eapen_5 (A4), Ebony_8 (A11), Edison31_5 (A10), EdogawaKiddo_6 (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), 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_7 (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), Groupthink_6 (A3), Grum1_5 (A3), Gwennie_5 (A3), HamSlice_4 (A4), Hanray_7 (A9), Happiness_5 (A4), HashRod_6 (A3), HaveUMetTed_6 (A3), Heathen_5 (A3), HelDan_5 (A3), Heliosoles_5 (A3), Hercules11_5 (A3), HippoHollow_8 (A2), Holex_7 (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), JenCasNa_5 (A3), JeppNRM_6 (A3), JetBlade_5 (A4), Jiawan_7 (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), Kerberos_35 (A2), Kimba_8 (A11), Kingmustik0402_5 (A4), Klodlith_32 (A9), Koan_5 (A4), Koduck_33 (A2), Koreni_5 (A4), Kratark_5 (A4), Kremtemulon_5 (A4), Kristoff_6 (A10), Kyee_5 (A4), L5_32

(A2), 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_6 (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), 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), Melvin_5 (A4), Methuselah_5 (A3), Micasa_5 (A5), Microwolf_5 (A3), Midas2_5 (A5), Miko_9 (A2), Milcery_5 (A5), Millski_5 (A4), Miramae_5 (A4), Misomonster_7 (A3), 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), Naji_35 (A2), Nebs_5 (A4), Nemo27_5 (A4), 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), Ph8s_33 (A2), Phacado_5 (A4), Phaded_8 (A2), Phaeder_8 (A9), Phantastic_5 (A3), Phelipe_5 (A4), Phighter1804_5 (A4), 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), Pomar16_35 (A2), Popcicle_5 (A3), PotatoSplit_6 (A3), Prinashe11_5 (A5), Priya_8 (A9), Prudy_7 (A2), Pukovnik_8 (A2), Pumbaa_5 (A4), Puppy_5 (A3), PurpleHaze_5 (A3), Qobbit_8 (A9), QuinnKiro_4 (A3), Rachaly_9 (A2), Reba_6 (A3), Rebeuca_6 (A10), RedRock_8 (A2), Relief_5 (A4), ResDef_5 (A3), RhynO_5 (A10), RockieBear_4 (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_9 (A9), Sabertooth_5 (A4), Sabinator_5 (A3), Sachima_6 (A9), 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), Snape_8 (A11), Snickers_5 (A3), SoilDragon_5 (A3), Soshari_7 (A3), Sparxx_5 (A4), Spike509_5 (A3), Spino_5 (A4), Stagni_5 (A3), StarStuff_35 (A2), Stasia_5 (A4), SteMason_5 (A4), Steamy_8 (A12), Stink_5 (A4), Sultana_5 (A4), SwirlSquare_33 (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), TipsytheTRex_31 (A2), TiroTheta9_5 (A4), Todacoro_5 (A3), Tomathan_35 (A2), Topanga_5 (A10), Travvers_35 (A2), 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), VA6_32 (A2), VC3_35 (A2), 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), Xena_5 (A4), YoSam321_5 (A4), Zarafa_5 (A3), Zetzy_5 (A3),

Start 163:
• Found in 3 of 782 (0.4%) of genes in pham
• Manual Annotations of this start: 2 of 685
• Called 100.0% of time when present

• Phage (with cluster) where this start called: FatCactus_5 (A20), Heffalump_9 (A2), NicoleTera_8 (A2),

Start 164:
• Found in 3 of 782 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 685
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Yecey3_33 (A9),

Start 167:
• Found in 2 of 782 (0.3%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Phlei_5 (A13),

Start 169:
• Found in 47 of 782 (6.0%) of genes in pham
• Manual Annotations of this start: 10 of 685
• Called 23.4% of time when present
• Phage (with cluster) where this start called: Anaysia_8 (A15), Boohoo_8 (A15), Epsocamisio_8 (A15), JSwag_8 (A15), LastResort_8 (A15), Nebulosus_8 (A15), Phayeta_34 (B3), ReMo_8 (A15), Remus_8 (A15), Strosahl_8 (A15), TPA2_47 (singleton),

Start 171:
• Found in 30 of 782 (3.8%) of genes in pham
• Manual Annotations of this start: 1 of 685
• Called 3.3% of time when present
• Phage (with cluster) where this start called: Jace_24 (singleton),

Start 173:
• Found in 12 of 782 (1.5%) of genes in pham
• Manual Annotations of this start: 12 of 685
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Astro_5 (A8), Caitlin_5 (A8), Danforth_4 (A8), Dixon_5 (A8), Expelliarmus_4 (A8), Groundhog_4 (A8), NearlyHeadless_5 (A8), Phillis_5 (A8), Roary_5 (A8), Saintus_5 (A8), Smeadley_5 (A8), Stephig9_5 (A8),

Start 174:
• Found in 8 of 782 (1.0%) of genes in pham
• Manual Annotations of this start: 5 of 685
• Called 62.5% 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),

Start 178:
• Found in 16 of 782 (2.0%) of genes in pham
• Manual Annotations of this start: 2 of 685
• Called 18.8% of time when present
• Phage (with cluster) where this start called: TraderJ_39 (DR), Wooper_39 (DR), Yeshua_39 (DR),

Start 179:

• Found in 3 of 782 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 685
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Turuncu_49 (CR1),

Start 182:
• Found in 25 of 782 (3.2%) of genes in pham
• No Manual Annotations of this start.
• Called 4.0% of time when present
• Phage (with cluster) where this start called: GMA6_18 (DQ),

Start 191:
• Found in 7 of 782 (0.9%) of genes in pham
• Manual Annotations of this start: 3 of 685
• Called 85.7% 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),

Start 204:
• Found in 73 of 782 (9.3%) of genes in pham
• Manual Annotations of this start: 1 of 685
• Called 1.4% of time when present
• Phage (with cluster) where this start called: ScoobyDoobyDoo_130 (C2),

Start 229:
• Found in 182 of 782 (23.3%) of genes in pham
• Manual Annotations of this start: 1 of 685
• Called 0.5% of time when present
• Phage (with cluster) where this start called: Marietta_47 (CR4),

Summary by clusters:

There are 60 clusters represented in this pham: DO, singleton, DI, CZ8, A18, K3, K1, AB, M1, K5, K4, DV, DW, DT, DR, DL, DQ, A15, A14, A17, A16, A11, A10, A13, A12, I2, CR2, DF3, A3, A2, A5, A4, A6, A9, A8, CS1, CS3, CS2, AA, P3, P1, P6, P4, P5, AJ, N, U, C2, Y, DA, AF, A20, A21, A22, CR1, CR4, P2, B3, AG, DZ,

Info for manual annotations of cluster A10:
•Start number 162 was manually annotated 11 times for cluster A10.

Info for manual annotations of cluster A11:
•Start number 162 was manually annotated 27 times for cluster A11.

Info for manual annotations of cluster A12:
•Start number 162 was manually annotated 1 time for cluster A12.

Info for manual annotations of cluster A14:
•Start number 54 was manually annotated 1 time for cluster A14.
•Start number 159 was manually annotated 2 times for cluster A14.

Info for manual annotations of cluster A15:
•Start number 169 was manually annotated 9 times for cluster A15.

Info for manual annotations of cluster A16:
•Start number 149 was manually annotated 3 times for cluster A16.

Info for manual annotations of cluster A18:
•Start number 151 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A2:
•Start number 54 was manually annotated 1 time for cluster A2.
•Start number 159 was manually annotated 4 times for cluster A2.
•Start number 162 was manually annotated 46 times for cluster A2.
•Start number 163 was manually annotated 2 times for cluster A2.
•Start number 191 was manually annotated 3 times for cluster A2.

Info for manual annotations of cluster A20:
•Start number 162 was manually annotated 1 time for cluster A20.

Info for manual annotations of cluster A22:
•Start number 162 was manually annotated 1 time for cluster A22.

Info for manual annotations of cluster A3:
•Start number 162 was manually annotated 110 times for cluster A3.

Info for manual annotations of cluster A4:
•Start number 162 was manually annotated 143 times for cluster A4.

Info for manual annotations of cluster A5:
•Start number 141 was manually annotated 3 times for cluster A5.
•Start number 162 was manually annotated 18 times for cluster A5.
•Start number 174 was manually annotated 5 times for cluster A5.

Info for manual annotations of cluster A6:
•Start number 142 was manually annotated 48 times for cluster A6.

Info for manual annotations of cluster A8:
•Start number 173 was manually annotated 12 times for cluster A8.

Info for manual annotations of cluster A9:
•Start number 159 was manually annotated 5 times for cluster A9.
•Start number 162 was manually annotated 28 times for cluster A9.
•Start number 164 was manually annotated 1 time for cluster A9.

Info for manual annotations of cluster AA:
•Start number 79 was manually annotated 2 times for cluster AA.

Info for manual annotations of cluster AB:
•Start number 13 was manually annotated 2 times for cluster AB.

Info for manual annotations of cluster AF:
•Start number 21 was manually annotated 2 times for cluster AF.

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

Info for manual annotations of cluster B3:
•Start number 169 was manually annotated 1 time for cluster B3.

Info for manual annotations of cluster C2:
•Start number 65 was manually annotated 1 time for cluster C2.
•Start number 204 was manually annotated 1 time for cluster C2.

Info for manual annotations of cluster CR1:
•Start number 179 was manually annotated 1 time for cluster CR1.

Info for manual annotations of cluster CR2:
•Start number 17 was manually annotated 1 time for cluster CR2.

Info for manual annotations of cluster CR4:
•Start number 20 was manually annotated 1 time for cluster CR4.
•Start number 21 was manually annotated 1 time for cluster CR4.
•Start number 229 was manually annotated 1 time for cluster CR4.

Info for manual annotations of cluster CS1:
•Start number 30 was manually annotated 3 times for cluster CS1.

Info for manual annotations of cluster CS2:
•Start number 47 was manually annotated 10 times for cluster CS2.

Info for manual annotations of cluster CS3:
•Start number 47 was manually annotated 25 times for cluster CS3.

Info for manual annotations of cluster CZ8:
•Start number 20 was manually annotated 1 time for cluster CZ8.

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

Info for manual annotations of cluster DF3:
•Start number 16 was manually annotated 1 time for cluster DF3.

Info for manual annotations of cluster DI:
•Start number 20 was manually annotated 1 time for cluster DI.
•Start number 22 was manually annotated 14 times for cluster DI.

Info for manual annotations of cluster DL:
•Start number 24 was manually annotated 2 times for cluster DL.

Info for manual annotations of cluster DO:
•Start number 49 was manually annotated 4 times for cluster DO.

Info for manual annotations of cluster DR:
•Start number 178 was manually annotated 2 times for cluster DR.

Info for manual annotations of cluster DT:
•Start number 20 was manually annotated 2 times for cluster DT.
•Start number 21 was manually annotated 2 times for cluster DT.
•Start number 27 was manually annotated 1 time for cluster DT.

Info for manual annotations of cluster DV:
•Start number 15 was manually annotated 11 times for cluster DV.
•Start number 20 was manually annotated 25 times for cluster DV.
•Start number 34 was manually annotated 1 time for cluster DV.
•Start number 104 was manually annotated 1 time for cluster DV.

Info for manual annotations of cluster DW:
•Start number 20 was manually annotated 1 time for cluster DW.
•Start number 21 was manually annotated 1 time for cluster DW.

Info for manual annotations of cluster DZ:
•Start number 151 was manually annotated 4 times for cluster DZ.

Info for manual annotations of cluster I2:
•Start number 21 was manually annotated 2 times for cluster I2.

Info for manual annotations of cluster K1:
•Start number 21 was manually annotated 1 time for cluster K1.

Info for manual annotations of cluster K4:
•Start number 19 was manually annotated 3 times for cluster K4.

Info for manual annotations of cluster K5:
•Start number 21 was manually annotated 22 times for cluster K5.

Info for manual annotations of cluster M1:
•Start number 21 was manually annotated 15 times for cluster M1.

Info for manual annotations of cluster N:
•Start number 19 was manually annotated 1 time for cluster N.
•Start number 21 was manually annotated 4 times for cluster N.

Info for manual annotations of cluster P1:
•Start number 21 was manually annotated 6 times for cluster P1.

Info for manual annotations of cluster P2:
•Start number 21 was manually annotated 1 time for cluster P2.

Info for manual annotations of cluster P3:
•Start number 21 was manually annotated 1 time for cluster P3.

Info for manual annotations of cluster P4:
•Start number 21 was manually annotated 2 times for cluster P4.

Info for manual annotations of cluster P5:
•Start number 21 was manually annotated 2 times for cluster P5.

Info for manual annotations of cluster P6:
•Start number 21 was manually annotated 1 time for cluster P6.

Info for manual annotations of cluster U:
•Start number 17 was manually annotated 3 times for cluster U.

Info for manual annotations of cluster Y:
•Start number 21 was manually annotated 6 times for cluster Y.

Gene Information:

Gene: 40AC_9 Start: 5287, Stop: 5973, Start Num: 162
Candidate Starts for 40AC_9:
(150, 5275), (Start: 162 @5287 has 386 MA's), (241, 5428), (261, 5521), (273, 5560), (290, 5611),

Gene: 8UZL_25 Start: 21727, Stop: 22752, Start Num: 13
Candidate Starts for 8UZL_25:
(Start: 13 @21727 has 2 MA's), (33, 21817), (53, 21886), (55, 21895), (85, 21973), (111, 22036), (113, 22039), (132, 22087), (192, 22183), (219, 22219), (246, 22270), (258, 22327), (335, 22564), (373, 22690),

Gene: ACFishhook_5 Start: 2969, Stop: 3619, Start Num: 162
Candidate Starts for ACFishhook_5:
(Start: 162 @2969 has 386 MA's), (231, 3077), (252, 3152), (303, 3344),

Gene: AN3_32 Start: 24571, Stop: 25236, Start Num: 162
Candidate Starts for AN3_32:
(Start: 162 @24571 has 386 MA's), (200, 24634), (236, 24694), (239, 24703), (240, 24706), (354, 25084), (375, 25174), (383, 25216),

Gene: AN9_35 Start: 24556, Stop: 25221, Start Num: 162
Candidate Starts for AN9_35:
(Start: 162 @24556 has 386 MA's), (200, 24619), (236, 24679), (239, 24688), (240, 24691), (354, 25069), (375, 25159), (383, 25201),

Gene: ANI8_35 Start: 24556, Stop: 25221, Start Num: 162
Candidate Starts for ANI8_35:
(Start: 162 @24556 has 386 MA's), (200, 24619), (236, 24679), (239, 24688), (240, 24691), (354, 25069), (375, 25159), (383, 25201),

Gene: AbbysRanger_5 Start: 2733, Stop: 3395, Start Num: 162
Candidate Starts for AbbysRanger_5:
(Start: 162 @2733 has 386 MA's), (Start: 229 @2838 has 1 MA's), (321, 3153),

Gene: Abdiel_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Abdiel_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (328, 3169), (385, 3367),

Gene: Achebe_5 Start: 2733, Stop: 3395, Start Num: 162

Candidate Starts for Achebe_5:
(Start: 162 @2733 has 386 MA's), (Start: 229 @2838 has 1 MA's), (321, 3153),

Gene: Acolyte_32 Start: 25057, Stop: 25704, Start Num: 162
Candidate Starts for Acolyte_32:
(Start: 162 @25057 has 386 MA's), (250, 25237), (255, 25267), (257, 25273), (282, 25357), (292, 25384), (314, 25471),

Gene: Adzzy_33 Start: 23085, Stop: 23747, Start Num: 162
Candidate Starts for Adzzy_33:
(Start: 162 @23085 has 386 MA's), (Start: 171 @23100 has 1 MA's), (231, 23199), (250, 23268), (287, 23397), (314, 23505), (365, 23631),

Gene: Agent47_27 Start: 24079, Stop: 25143, Start Num: 21
Candidate Starts for Agent47_27:
(Start: 21 @24079 has 70 MA's), (43, 24169), (48, 24196), (71, 24259), (92, 24307), (108, 24346), (117, 24364), (134, 24409), (156, 24448), (185, 24496), (195, 24514), (234, 24589), (251, 24655), (273, 24745), (274, 24748), (275, 24751), (287, 24784), (314, 24883), (315, 24886), (342, 24970), (344, 24982), (380, 25099),

Gene: AgentM_5 Start: 3698, Stop: 4345, Start Num: 174
Candidate Starts for AgentM_5:
(Start: 162 @3680 has 386 MA's), (Start: 174 @3698 has 5 MA's), (Start: 204 @3746 has 1 MA's), (217, 3767), (252, 3863),

Gene: AgronaGT15_5 Start: 2540, Stop: 3172, Start Num: 162
Candidate Starts for AgronaGT15_5:
(Start: 162 @2540 has 386 MA's), (252, 2723), (253, 2726), (257, 2753),

Gene: Albee_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Albee_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Alberto7_5 Start: 2723, Stop: 3394, Start Num: 162
Candidate Starts for Alberto7_5:
(Start: 162 @2723 has 386 MA's), (301, 3083), (388, 3389),

Gene: Aleemily_25 Start: 23347, Stop: 24057, Start Num: 151
Candidate Starts for Aleemily_25:
(14, 22930), (81, 23185), (Start: 151 @23347 has 5 MA's), (Start: 162 @23362 has 386 MA's), (Start: 171 @23377 has 1 MA's), (266, 23629), (323, 23821),

Gene: Alephilan_30 Start: 28717, Stop: 29766, Start Num: 20
Candidate Starts for Alephilan_30:
(Start: 20 @28717 has 31 MA's), (48, 28831), (62, 28873), (71, 28894), (84, 28927), (93, 28942), (117, 29005), (124, 29023), (203, 29176), (218, 29206), (231, 29233), (280, 29416), (291, 29446), (348, 29620), (369, 29674),

Gene: Aliter_8 Start: 5167, Stop: 5796, Start Num: 162
Candidate Starts for Aliter_8:
(Start: 162 @5167 has 386 MA's), (184, 5206), (252, 5347), (257, 5377), (262, 5392),

Gene: Alma_8 Start: 5225, Stop: 5875, Start Num: 162
Candidate Starts for Alma_8:
(Start: 162 @5225 has 386 MA's), (251, 5402), (257, 5435), (313, 5639), (355, 5735),

Gene: Alyssamiracle_33 Start: 27521, Stop: 28618, Start Num: 15
Candidate Starts for Alyssamiracle_33:
(Start: 15 @27521 has 11 MA's), (41, 27635), (70, 27728), (82, 27761), (85, 27764), (87, 27767), (96, 27788), (101, 27800), (120, 27848), (145, 27911), (181, 27965), (240, 28061), (249, 28103), (308, 28337), (325, 28376), (353, 28463), (388, 28610),

Gene: Amore2_33 Start: 36453, Stop: 37457, Start Num: 30
Candidate Starts for Amore2_33:
(Start: 30 @36453 has 3 MA's), (42, 36501), (45, 36519), (73, 36597), (81, 36615), (88, 36624), (116, 36690), (155, 36771), (237, 36924), (245, 36951), (249, 36972), (274, 37074), (308, 37200), (354, 37302), (383, 37434),

Gene: Anamika_30 Start: 38386, Stop: 39288, Start Num: 47
Candidate Starts for Anamika_30:
(Start: 47 @38386 has 35 MA's), (103, 38524), (128, 38593), (154, 38641), (194, 38704), (226, 38740), (232, 38749), (271, 38908), (357, 39142), (361, 39160), (383, 39265),

Gene: Anaysia_8 Start: 4403, Stop: 5071, Start Num: 169
Candidate Starts for Anaysia_8:
(Start: 169 @4403 has 10 MA's), (266, 4643), (285, 4709), (323, 4835),

Gene: Andies_21 Start: 20194, Stop: 21228, Start Num: 21
Candidate Starts for Andies_21:
(Start: 21 @20194 has 70 MA's), (62, 20350), (64, 20356), (109, 20464), (110, 20467), (118, 20482), (Start: 159 @20569 has 11 MA's), (185, 20614), (Start: 229 @20695 has 1 MA's), (246, 20752), (251, 20776), (279, 20881), (298, 20953), (313, 20998),

Gene: Aneem_8 Start: 5410, Stop: 6072, Start Num: 162
Candidate Starts for Aneem_8:
(Start: 162 @5410 has 386 MA's), (Start: 204 @5476 has 1 MA's), (242, 5551), (268, 5662), (351, 5902),

Gene: AnnaL29_8 Start: 5238, Stop: 5912, Start Num: 162
Candidate Starts for AnnaL29_8:
(Start: 162 @5238 has 386 MA's), (250, 5415), (291, 5559), (302, 5613), (329, 5709),

Gene: Annyong_5 Start: 2723, Stop: 3385, Start Num: 162
Candidate Starts for Annyong_5:
(Start: 162 @2723 has 386 MA's), (Start: 229 @2828 has 1 MA's), (319, 3140), (321, 3143), (385, 3368),

Gene: Anthony_5 Start: 2845, Stop: 3510, Start Num: 162
Candidate Starts for Anthony_5:
(Start: 162 @2845 has 386 MA's), (Start: 179 @2875 has 1 MA's), (231, 2956), (273, 3124), (283, 3154), (351, 3349),

Gene: Anubis_7 Start: 2809, Stop: 3468, Start Num: 162
Candidate Starts for Anubis_7:
(Start: 162 @2809 has 386 MA's), (217, 2896), (240, 2938), (252, 2992), (273, 3076), (279, 3094),

Gene: Apeppi_30 Start: 28862, Stop: 29908, Start Num: 20
Candidate Starts for Apeppi_30:
(Start: 20 @28862 has 31 MA's), (Start: 34 @28919 has 1 MA's), (59, 29009), (62, 29018), (64, 29024), (68, 29033), (93, 29087), (183, 29285), (218, 29351), (224, 29363), (246, 29432), (286, 29573), (319, 29681),

Gene: Aragog_5 Start: 3728, Stop: 4375, Start Num: 174
Candidate Starts for Aragog_5:
(Start: 162 @3710 has 386 MA's), (Start: 174 @3728 has 5 MA's), (Start: 204 @3776 has 1 MA's), (217, 3797), (252, 3893),

Gene: ArcherNM_8 Start: 5248, Stop: 5922, Start Num: 162
Candidate Starts for ArcherNM_8:
(Start: 162 @5248 has 386 MA's), (291, 5569), (302, 5623), (329, 5719), (361, 5803),

Gene: Archetta_5 Start: 3446, Stop: 4087, Start Num: 141
Candidate Starts for Archetta_5:
(Start: 141 @3446 has 3 MA's), (225, 3554), (249, 3614), (260, 3662), (265, 3668), (273, 3707), (289, 3752), (290, 3758),

Gene: Archimedes_26 Start: 23367, Stop: 24368, Start Num: 35
Candidate Starts for Archimedes_26:
(Start: 30 @23343 has 3 MA's), (Start: 35 @23367 has 1 MA's), (57, 23445), (118, 23595), (205, 23766), (251, 23898), (270, 23982), (282, 24018), (308, 24114), (354, 24213), (384, 24348),

Gene: Artemis2UCLA_8 Start: 4544, Stop: 5242, Start Num: 142
Candidate Starts for Artemis2UCLA_8:
(Start: 142 @4544 has 48 MA's), (337, 5048), (385, 5234),

Gene: Arti_44 Start: 34961, Stop: 36019, Start Num: 17
Candidate Starts for Arti_44:
(1, 33521), (2, 33818), (3, 34049), (5, 34418), (8, 34796), (9, 34811), (10, 34829), (Start: 17 @34961 has 4 MA's), (130, 35306), (161, 35357), (186, 35405),

Gene: Arturo_4 Start: 2722, Stop: 3387, Start Num: 162
Candidate Starts for Arturo_4:
(Start: 162 @2722 has 386 MA's), (273, 2989), (292, 3046), (316, 3133), (343, 3202), (385, 3370),

Gene: Astralis_30 Start: 27111, Stop: 28208, Start Num: 15
Candidate Starts for Astralis_30:
(Start: 15 @27111 has 11 MA's), (41, 27225), (70, 27318), (82, 27351), (85, 27354), (87, 27357), (95, 27375), (96, 27378), (120, 27438), (139, 27489), (145, 27501), (240, 27651), (249, 27693), (308, 27927), (325, 27966), (353, 28053), (388, 28200),

Gene: Astro_5 Start: 3347, Stop: 4006, Start Num: 173
Candidate Starts for Astro_5:
(Start: 173 @3347 has 12 MA's), (209, 3404), (Start: 229 @3446 has 1 MA's), (318, 3764), (354, 3863),

Gene: Atcoo_22 Start: 21759, Stop: 22826, Start Num: 21
Candidate Starts for Atcoo_22:
(Start: 21 @21759 has 70 MA's), (64, 21921), (78, 21963), (110, 22032), (134, 22092), (Start: 159 @22137 has 11 MA's), (185, 22182), (246, 22320), (251, 22344),

Gene: AugsMagnumOpus_7 Start: 2890, Stop: 3549, Start Num: 162
Candidate Starts for AugsMagnumOpus_7:
(Start: 162 @2890 has 386 MA's), (252, 3073), (257, 3106), (279, 3175), (383, 3529),

Gene: AuntGwenStacy_28 Start: 26025, Stop: 27062, Start Num: 21
Candidate Starts for AuntGwenStacy_28:
(Start: 21 @26025 has 70 MA's), (51, 26148), (71, 26202), (86, 26238), (114, 26301), (134, 26349), (168, 26403), (Start: 169 @26406 has 10 MA's), (250, 26592), (256, 26628), (269, 26670), (275, 26688), (292, 26739),

Gene: Auspice_31 Start: 26992, Stop: 28047, Start Num: 21
Candidate Starts for Auspice_31:
(Start: 21 @26992 has 70 MA's), (86, 27205), (103, 27241), (127, 27304), (Start: 169 @27376 has 10 MA's), (185, 27406), (198, 27427), (218, 27463), (234, 27499), (246, 27547), (250, 27568), (252, 27574), (256, 27604), (257, 27607), (271, 27655), (341, 27865), (361, 27919),

Gene: Austin_33 Start: 36453, Stop: 37457, Start Num: 30
Candidate Starts for Austin_33:
(Start: 30 @36453 has 3 MA's), (42, 36501), (45, 36519), (81, 36615), (88, 36624), (116, 36690), (155, 36771), (237, 36924), (245, 36951), (249, 36972), (274, 37074), (308, 37200), (354, 37302), (383, 37434),

Gene: AvatarAhPeg_5 Start: 2718, Stop: 3383, Start Num: 162
Candidate Starts for AvatarAhPeg_5:
(Start: 162 @2718 has 386 MA's), (213, 2799), (273, 2985), (306, 3111),

Gene: Avian_30 Start: 27503, Stop: 28600, Start Num: 15
Candidate Starts for Avian_30:
(Start: 15 @27503 has 11 MA's), (41, 27617), (70, 27710), (82, 27743), (85, 27746), (87, 27749), (95, 27767), (96, 27770), (120, 27830), (139, 27881), (145, 27893), (152, 27905), (181, 27947), (240, 28043), (249, 28085), (308, 28319), (325, 28358), (353, 28445), (388, 28592),

Gene: Avle17_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Avle17_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Ayanochan_8 Start: 5227, Stop: 5898, Start Num: 162
Candidate Starts for Ayanochan_8:
(Start: 162 @5227 has 386 MA's), (257, 5437), (357, 5743), (370, 5821),

Gene: Ayotoya_27 Start: 24101, Stop: 25168, Start Num: 22
Candidate Starts for Ayotoya_27:
(Start: 22 @24101 has 14 MA's), (175, 24479), (240, 24620), (243, 24635), (246, 24647), (251, 24671), (270, 24755), (273, 24761), (284, 24794), (289, 24806), (315, 24902), (319, 24905), (325, 24926),

Gene: B1_04 Start: 2514, Stop: 3149, Start Num: 162
Candidate Starts for B1_04:
(Start: 162 @2514 has 386 MA's), (252, 2697), (257, 2727), (280, 2805), (292, 2838),

Gene: BABullseye_8 Start: 4661, Stop: 5359, Start Num: 142
Candidate Starts for BABullseye_8:

(Start: 142 @4661 has 48 MA's), (337, 5165), (385, 5351),

Gene: Baby16_5 Start: 2731, Stop: 3393, Start Num: 162
Candidate Starts for Baby16_5:
(Start: 162 @2731 has 386 MA's), (Start: 229 @2836 has 1 MA's), (319, 3148), (321, 3151), (385, 3376),

Gene: BabyBack_8 Start: 5112, Stop: 5783, Start Num: 162
Candidate Starts for BabyBack_8:
(Start: 162 @5112 has 386 MA's), (213, 5193), (250, 5289), (292, 5436),

Gene: BabyJohn_4 Start: 2767, Stop: 3399, Start Num: 162
Candidate Starts for BabyJohn_4:
(Start: 162 @2767 has 386 MA's), (252, 2950), (257, 2980),

Gene: BabyMoney_29 Start: 25948, Stop: 27033, Start Num: 20
Candidate Starts for BabyMoney_29:
(4, 25351), (6, 25438), (7, 25636), (Start: 20 @25948 has 31 MA's), (44, 26053), (66, 26116), (84, 26158), (117, 26236), (155, 26320), (175, 26350), (Start: 204 @26413 has 1 MA's), (246, 26521), (279, 26653),

Gene: BabyRay_5 Start: 2781, Stop: 3440, Start Num: 162
Candidate Starts for BabyRay_5:
(Start: 162 @2781 has 386 MA's), (176, 2802), (217, 2868), (250, 2958), (257, 2994), (298, 3138), (332, 3240), (373, 3378),

Gene: Bachome_8 Start: 5407, Stop: 6069, Start Num: 162
Candidate Starts for Bachome_8:
(Start: 162 @5407 has 386 MA's), (Start: 204 @5473 has 1 MA's), (242, 5548), (268, 5659), (351, 5899),

Gene: Backyardigan_5 Start: 2733, Stop: 3395, Start Num: 162
Candidate Starts for Backyardigan_5:
(Start: 162 @2733 has 386 MA's), (Start: 229 @2838 has 1 MA's), (321, 3153),

Gene: Bactobuster_8 Start: 5068, Stop: 5730, Start Num: 162
Candidate Starts for Bactobuster_8:
(Start: 162 @5068 has 386 MA's), (213, 5149), (Start: 229 @5173 has 1 MA's), (273, 5329), (306, 5455), (321, 5482),

Gene: Badger_5 Start: 2734, Stop: 3396, Start Num: 162
Candidate Starts for Badger_5:
(Start: 162 @2734 has 386 MA's), (Start: 229 @2839 has 1 MA's), (321, 3154),

Gene: BananenDer11_27 Start: 24040, Stop: 25104, Start Num: 21
Candidate Starts for BananenDer11_27:
(Start: 21 @24040 has 70 MA's), (43, 24130), (48, 24157), (71, 24220), (92, 24268), (108, 24307), (117, 24325), (134, 24370), (156, 24409), (185, 24457), (195, 24475), (234, 24550), (251, 24616), (273, 24706), (274, 24709), (275, 24712), (287, 24745), (314, 24844), (315, 24847), (342, 24931), (344, 24943), (380, 25060),

Gene: BangNhom_4 Start: 2722, Stop: 3387, Start Num: 162
Candidate Starts for BangNhom_4:

(Start: 162 @2722 has 386 MA's), (250, 2899), (273, 2989), (306, 3115),

Gene: Bartimeaus_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Bartimeaus_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Beauxregard13_5 Start: 2629, Stop: 3264, Start Num: 162
Candidate Starts for Beauxregard13_5:
(Start: 162 @2629 has 386 MA's), (257, 2842),

Gene: Beaver_33 Start: 37866, Stop: 38768, Start Num: 47
Candidate Starts for Beaver_33:
(Start: 47 @37866 has 35 MA's), (103, 38001), (112, 38031), (119, 38043), (133, 38076), (Start: 169 @38127 has 10 MA's), (194, 38175), (226, 38211), (251, 38292), (262, 38343), (264, 38346), (291, 38436), (341, 38583), (385, 38751),

Gene: Beemo_8 Start: 5228, Stop: 5899, Start Num: 162
Candidate Starts for Beemo_8:
(Start: 162 @5228 has 386 MA's), (250, 5402), (257, 5438), (321, 5651), (370, 5822),

Gene: Bellris_31 Start: 23978, Stop: 24619, Start Num: 159
Candidate Starts for Bellris_31:
(122, 23906), (Start: 159 @23978 has 11 MA's), (240, 24113), (250, 24161), (314, 24392), (383, 24599),

Gene: BellusTerra_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for BellusTerra_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: BennyP_8 Start: 4661, Stop: 5359, Start Num: 142
Candidate Starts for BennyP_8:
(Start: 142 @4661 has 48 MA's), (337, 5165), (385, 5351),

Gene: Berries_30 Start: 38356, Stop: 39258, Start Num: 47
Candidate Starts for Berries_30:
(Start: 47 @38356 has 35 MA's), (103, 38494), (128, 38563), (154, 38611), (194, 38674), (226, 38710), (271, 38878), (361, 39130), (383, 39235),

Gene: BetterKatz_27 Start: 23574, Stop: 24641, Start Num: 22
Candidate Starts for BetterKatz_27:
(Start: 22 @23574 has 14 MA's), (175, 23952), (240, 24093), (243, 24108), (246, 24120), (251, 24144), (252, 24147), (270, 24228), (315, 24375),

Gene: BiancaTri92_8 Start: 5044, Stop: 5694, Start Num: 162
Candidate Starts for BiancaTri92_8:
(Start: 162 @5044 has 386 MA's), (207, 5116), (250, 5221), (260, 5269), (357, 5560),

Gene: Bianmat_30 Start: 38396, Stop: 39298, Start Num: 47
Candidate Starts for Bianmat_30:
(Start: 47 @38396 has 35 MA's), (103, 38534), (128, 38603), (154, 38651), (194, 38714), (226, 38750), (271, 38918), (361, 39170), (383, 39275),

Gene: BigNuz_22 Start: 21497, Stop: 22546, Start Num: 21
Candidate Starts for BigNuz_22:
(Start: 21 @21497 has 70 MA's), (25, 21518), (64, 21659), (75, 21689), (86, 21710), (114, 21773), (129, 21812), (220, 21971), (256, 22103), (288, 22199), (371, 22484),

Gene: Bigflo_5 Start: 2629, Stop: 3264, Start Num: 162
Candidate Starts for Bigflo_5:
(Start: 162 @2629 has 386 MA's), (257, 2842),

Gene: BillyBobJr_34 Start: 37893, Stop: 38795, Start Num: 47
Candidate Starts for BillyBobJr_34:
(Start: 47 @37893 has 35 MA's), (114, 38061), (128, 38097), (138, 38112), (147, 38127), (154, 38139), (226, 38238), (251, 38319), (264, 38373), (341, 38610), (377, 38736), (385, 38778),

Gene: Bipper_28 Start: 26155, Stop: 27216, Start Num: 21
Candidate Starts for Bipper_28:
(Start: 21 @26155 has 70 MA's), (56, 26293), (63, 26314), (64, 26317), (83, 26365), (86, 26368), (117, 26443), (134, 26488), (Start: 159 @26530 has 11 MA's), (Start: 162 @26533 has 386 MA's), (172, 26551), (185, 26575), (193, 26587), (199, 26596), (Start: 204 @26602 has 1 MA's), (251, 26734), (273, 26824), (292, 26881), (299, 26917), (308, 26956), (340, 27037), (385, 27199),

Gene: BirksAndSocks_33 Start: 37840, Stop: 38742, Start Num: 47
Candidate Starts for BirksAndSocks_33:
(Start: 47 @37840 has 35 MA's), (114, 38008), (128, 38044), (138, 38059), (147, 38074), (154, 38086), (226, 38185), (251, 38266), (264, 38320), (341, 38557), (377, 38683), (385, 38725),

Gene: BirthdayBoy_34 Start: 29543, Stop: 30589, Start Num: 20
Candidate Starts for BirthdayBoy_34:
(Start: 20 @29543 has 31 MA's), (48, 29657), (56, 29678), (62, 29699), (84, 29753), (93, 29768), (183, 29966), (218, 30032), (224, 30044), (246, 30113), (286, 30254),

Gene: Blackmoor_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Blackmoor_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: BlessJoy_8 Start: 4661, Stop: 5359, Start Num: 142
Candidate Starts for BlessJoy_8:
(Start: 142 @4661 has 48 MA's), (337, 5165), (385, 5351),

Gene: Blinn1_8 Start: 4661, Stop: 5359, Start Num: 142
Candidate Starts for Blinn1_8:
(Start: 142 @4661 has 48 MA's), (311, 5102), (337, 5165), (385, 5351),

Gene: Blue7_8 Start: 4655, Stop: 5353, Start Num: 142
Candidate Starts for Blue7_8:
(Start: 142 @4655 has 48 MA's), (337, 5159), (385, 5345),

Gene: BlueBird_5 Start: 2830, Stop: 3480, Start Num: 162
Candidate Starts for BlueBird_5:
(Start: 162 @2830 has 386 MA's), (273, 3097), (383, 3460),

Gene: Bluefalcon_4 Start: 3677, Stop: 4342, Start Num: 162
Candidate Starts for Bluefalcon_4:
(Start: 162 @3677 has 386 MA's), (Start: 174 @3695 has 5 MA's), (Start: 204 @3743 has 1 MA's), (217, 3764), (252, 3860),

Gene: BobSwaget_9 Start: 5384, Stop: 6061, Start Num: 162
Candidate Starts for BobSwaget_9:
(Start: 162 @5384 has 386 MA's), (251, 5564), (270, 5645), (276, 5660), (292, 5708), (321, 5798), (328, 5825),

Gene: Bock_27 Start: 23324, Stop: 24391, Start Num: 22
Candidate Starts for Bock_27:
(Start: 22 @23324 has 14 MA's), (175, 23702), (240, 23843), (243, 23858), (251, 23894), (270, 23978), (315, 24125),

Gene: BogosyJay_8 Start: 5009, Stop: 5659, Start Num: 162
Candidate Starts for BogosyJay_8:
(Start: 162 @5009 has 386 MA's), (251, 5186), (257, 5219), (313, 5423), (355, 5519),

Gene: Bombshell_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Bombshell_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Bonamassa_5 Start: 3603, Stop: 4265, Start Num: 162
Candidate Starts for Bonamassa_5:
(Start: 162 @3603 has 386 MA's), (170, 3615), (182, 3639), (190, 3654), (Start: 204 @3669 has 1 MA's), (242, 3744), (275, 3873), (351, 4095),

Gene: Boneham_33 Start: 37839, Stop: 38741, Start Num: 47
Candidate Starts for Boneham_33:
(Start: 47 @37839 has 35 MA's), (114, 38007), (128, 38043), (138, 38058), (147, 38073), (154, 38085), (226, 38184), (251, 38265), (264, 38319), (341, 38556), (377, 38682), (385, 38724),

Gene: Bongo_31 Start: 26992, Stop: 28047, Start Num: 21
Candidate Starts for Bongo_31:
(Start: 21 @26992 has 70 MA's), (86, 27205), (103, 27241), (127, 27304), (Start: 169 @27376 has 10 MA's), (185, 27406), (198, 27427), (218, 27463), (234, 27499), (246, 27547), (250, 27568), (252, 27574), (256, 27604), (257, 27607), (271, 27655), (333, 27844), (341, 27865), (361, 27919),

Gene: Boohoo_8 Start: 4403, Stop: 5071, Start Num: 169
Candidate Starts for Boohoo_8:
(Start: 169 @4403 has 10 MA's), (266, 4643), (285, 4709), (323, 4835),

Gene: Bowtie_8 Start: 5410, Stop: 6072, Start Num: 162
Candidate Starts for Bowtie_8:
(Start: 162 @5410 has 386 MA's), (Start: 204 @5476 has 1 MA's), (242, 5551), (268, 5662), (351, 5902),

Gene: Bradman_31 Start: 23397, Stop: 23996, Start Num: 191
Candidate Starts for Bradman_31:
(Start: 191 @23397 has 3 MA's), (210, 23430), (231, 23448), (250, 23517), (270, 23601), (282, 23637), (314, 23754), (373, 23925),

Gene: Bricole_31 Start: 26978, Stop: 28033, Start Num: 21
Candidate Starts for Bricole_31:
(Start: 21 @26978 has 70 MA's), (86, 27191), (103, 27227), (127, 27290), (Start: 169 @27362 has 10 MA's), (185, 27392), (198, 27413), (218, 27449), (234, 27485), (246, 27533), (250, 27554), (252, 27560), (256, 27590), (257, 27593), (271, 27641), (333, 27830), (341, 27851), (361, 27905),

Gene: BronnyJr_22 Start: 21730, Stop: 22797, Start Num: 21
Candidate Starts for BronnyJr_22:
(Start: 19 @21727 has 4 MA's), (Start: 21 @21730 has 70 MA's), (64, 21892), (78, 21934), (110, 22003), (134, 22063), (Start: 159 @22108 has 11 MA's), (185, 22153), (224, 22222), (Start: 229 @22234 has 1 MA's), (246, 22291), (251, 22315), (291, 22453), (292, 22456),

Gene: Broseidon_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Broseidon_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (328, 3169), (385, 3367),

Gene: Bruiser_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Bruiser_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Brylie_27 Start: 23315, Stop: 24382, Start Num: 22
Candidate Starts for Brylie_27:
(Start: 22 @23315 has 14 MA's), (92, 23525), (175, 23693), (240, 23834), (243, 23849), (246, 23861), (251, 23885), (270, 23969), (282, 24005), (315, 24116),

Gene: BubbleTrouble_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for BubbleTrouble_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Buckaroo_4 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Buckaroo_4:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Bud_8 Start: 5416, Stop: 6078, Start Num: 162
Candidate Starts for Bud_8:
(Start: 162 @5416 has 386 MA's), (Start: 204 @5482 has 1 MA's), (242, 5557), (351, 5908), (362, 5953),

Gene: Bugatti_4 Start: 2830, Stop: 3480, Start Num: 162
Candidate Starts for Bugatti_4:
(Start: 162 @2830 has 386 MA's), (273, 3097), (383, 3460),

Gene: Bumblebee11_5 Start: 2733, Stop: 3395, Start Num: 162
Candidate Starts for Bumblebee11_5:
(Start: 162 @2733 has 386 MA's), (Start: 229 @2838 has 1 MA's), (321, 3153),

Gene: Burger_4 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Burger_4:

(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Butterball_33 Start: 37839, Stop: 38741, Start Num: 47
Candidate Starts for Butterball_33:
(Start: 47 @37839 has 35 MA's), (114, 38007), (128, 38043), (138, 38058), (147, 38073), (154, 38085), (226, 38184), (251, 38265), (264, 38319), (341, 38556), (377, 38682), (385, 38724),

Gene: BuzzBuzz_4 Start: 2720, Stop: 3352, Start Num: 162
Candidate Starts for BuzzBuzz_4:
(Start: 162 @2720 has 386 MA's), (252, 2903), (253, 2906), (257, 2933),

Gene: Bxz2_5 Start: 2730, Stop: 3362, Start Num: 162
Candidate Starts for Bxz2_5:
(Start: 162 @2730 has 386 MA's), (252, 2913), (253, 2916), (257, 2943),

Gene: C3_30 Start: 24556, Stop: 25221, Start Num: 162
Candidate Starts for C3_30:
(Start: 162 @24556 has 386 MA's), (200, 24619), (236, 24679), (239, 24688), (240, 24691), (354, 25069), (375, 25159), (383, 25201),

Gene: Caelakin_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Caelakin_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Cafasso_26 Start: 23921, Stop: 24631, Start Num: 151
Candidate Starts for Cafasso_26:
(14, 23504), (81, 23759), (Start: 151 @23921 has 5 MA's), (Start: 162 @23936 has 386 MA's), (Start: 171 @23951 has 1 MA's), (266, 24203), (323, 24395),

Gene: Caitlin_5 Start: 3347, Stop: 4006, Start Num: 173
Candidate Starts for Caitlin_5:
(Start: 173 @3347 has 12 MA's), (209, 3404), (Start: 229 @3446 has 1 MA's), (318, 3764), (354, 3863),

Gene: Calvinny_5 Start: 2888, Stop: 3538, Start Num: 162
Candidate Starts for Calvinny_5:
(Start: 162 @2888 has 386 MA's), (231, 2996), (252, 3071), (303, 3263),

Gene: Camperdownii_5 Start: 2727, Stop: 3401, Start Num: 162
Candidate Starts for Camperdownii_5:
(Start: 162 @2727 has 386 MA's), (Start: 191 @2778 has 3 MA's), (257, 2940), (276, 3003),

Gene: Camster_22 Start: 21300, Stop: 22367, Start Num: 21
Candidate Starts for Camster_22:
(Start: 17 @21276 has 4 MA's), (Start: 19 @21297 has 4 MA's), (Start: 21 @21300 has 70 MA's), (26, 21324), (64, 21462), (78, 21504), (110, 21573), (134, 21633), (Start: 159 @21678 has 11 MA's), (185, 21723), (224, 21792), (Start: 229 @21804 has 1 MA's), (246, 21861), (251, 21885), (297, 22056),

Gene: Candra_8 Start: 4694, Stop: 5392, Start Num: 142
Candidate Starts for Candra_8:
(Start: 142 @4694 has 48 MA's), (337, 5198), (385, 5384),

Gene: Caraxes_31 Start: 22947, Stop: 23612, Start Num: 159
Candidate Starts for Caraxes_31:
(Start: 159 @22947 has 11 MA's), (Start: 162 @22950 has 386 MA's), (231, 23061), (250, 23130), (252, 23136), (257, 23166), (282, 23250), (319, 23373), (347, 23445), (379, 23562),

Gene: Cat_4 Start: 2400, Stop: 3059, Start Num: 162
Candidate Starts for Cat_4:
(Start: 162 @2400 has 386 MA's), (176, 2421), (217, 2487), (250, 2577), (257, 2613), (332, 2859), (373, 2997),

Gene: Catalina_8 Start: 5240, Stop: 5869, Start Num: 162
Candidate Starts for Catalina_8:
(Start: 162 @5240 has 386 MA's), (184, 5279), (252, 5420), (257, 5450), (262, 5465),

Gene: Caviar_5 Start: 2764, Stop: 3423, Start Num: 162
Candidate Starts for Caviar_5:
(Start: 162 @2764 has 386 MA's), (176, 2785), (217, 2851), (250, 2941), (257, 2977), (332, 3223), (363, 3310),

Gene: Celestialunch_31 Start: 24063, Stop: 24701, Start Num: 159
Candidate Starts for Celestialunch_31:
(46, 23796), (Start: 159 @24063 has 11 MA's), (182, 24099), (250, 24240), (314, 24474), (383, 24681),

Gene: CentreCat_5 Start: 2723, Stop: 3385, Start Num: 162
Candidate Starts for CentreCat_5:
(Start: 162 @2723 has 386 MA's), (Start: 229 @2828 has 1 MA's), (319, 3140), (321, 3143), (385, 3368),

Gene: Cerulean_5 Start: 2723, Stop: 3388, Start Num: 162
Candidate Starts for Cerulean_5:
(Start: 162 @2723 has 386 MA's), (250, 2900), (273, 2990), (306, 3116),

Gene: ChampagnePapi_5 Start: 2722, Stop: 3387, Start Num: 162
Candidate Starts for ChampagnePapi_5:
(Start: 162 @2722 has 386 MA's), (250, 2899), (273, 2989), (306, 3115),

Gene: Changeling_8 Start: 5275, Stop: 5919, Start Num: 162
Candidate Starts for Changeling_8:
(Start: 162 @5275 has 386 MA's), (190, 5326), (251, 5455), (252, 5458), (262, 5506), (288, 5584), (383, 5899),

Gene: Chaph_5 Start: 2731, Stop: 3393, Start Num: 162
Candidate Starts for Chaph_5:
(Start: 162 @2731 has 386 MA's), (Start: 229 @2836 has 1 MA's), (319, 3148), (321, 3151), (385, 3376),

Gene: Chargerpower_33 Start: 23787, Stop: 24434, Start Num: 162
Candidate Starts for Chargerpower_33:
(Start: 162 @23787 has 386 MA's), (166, 23793), (213, 23871), (221, 23886), (231, 23898), (250, 23967), (252, 23973), (257, 24006), (292, 24114), (383, 24414),

Gene: Charianelly_30 Start: 38106, Stop: 39008, Start Num: 47
Candidate Starts for Charianelly_30:

(Start: 47 @38106 has 35 MA's), (103, 38244), (128, 38313), (154, 38361), (194, 38424), (226, 38460), (271, 38628), (361, 38880), (383, 38985),

Gene: Charm_32 Start: 24071, Stop: 24721, Start Num: 159
Candidate Starts for Charm_32:
(12, 23615), (46, 23804), (122, 23999), (Start: 159 @24071 has 11 MA's), (182, 24113), (217, 24164), (250, 24254), (253, 24263), (271, 24341), (291, 24398), (314, 24488),

Gene: Charminar_30 Start: 27114, Stop: 28211, Start Num: 15
Candidate Starts for Charminar_30:
(Start: 15 @27114 has 11 MA's), (41, 27228), (70, 27321), (82, 27354), (85, 27357), (87, 27360), (96, 27381), (101, 27393), (120, 27441), (145, 27504), (181, 27558), (240, 27654), (249, 27696), (281, 27822), (308, 27930), (325, 27969), (353, 28056), (388, 28203),

Gene: Chartreuse_8 Start: 4608, Stop: 5306, Start Num: 142
Candidate Starts for Chartreuse_8:
(Start: 142 @4608 has 48 MA's), (337, 5112), (385, 5298),

Gene: Che12_34 Start: 23324, Stop: 23983, Start Num: 162
Candidate Starts for Che12_34:
(Start: 162 @23324 has 386 MA's), (Start: 171 @23339 has 1 MA's), (231, 23438), (282, 23624), (287, 23633), (314, 23741),

Gene: Che9c_21 Start: 21007, Stop: 22053, Start Num: 21
Candidate Starts for Che9c_21:
(Start: 21 @21007 has 70 MA's), (86, 21220), (134, 21331), (Start: 159 @21373 has 11 MA's), (Start: 162 @21376 has 386 MA's), (200, 21445), (250, 21577), (256, 21613), (291, 21721), (341, 21874), (343, 21883), (348, 21895),

Gene: CherryTomatoes_125 Start: 82351, Stop: 83241, Start Num: 49
Candidate Starts for CherryTomatoes_125:
(Start: 49 @82351 has 4 MA's), (354, 83086),

Gene: Chiqui_4 Start: 2767, Stop: 3399, Start Num: 162
Candidate Starts for Chiqui_4:
(Start: 162 @2767 has 386 MA's), (252, 2950), (257, 2980),

Gene: Chop_27 Start: 23849, Stop: 24916, Start Num: 22
Candidate Starts for Chop_27:
(Start: 22 @23849 has 14 MA's), (175, 24227), (240, 24368), (243, 24383), (246, 24395), (251, 24419), (270, 24503), (273, 24509), (284, 24542), (289, 24554), (315, 24650), (319, 24653), (325, 24674),

Gene: Chupacabra_5 Start: 2816, Stop: 3463, Start Num: 162
Candidate Starts for Chupacabra_5:
(Start: 162 @2816 has 386 MA's), (217, 2903), (250, 2993), (288, 3125), (299, 3176), (300, 3179), (309, 3215), (385, 3449),

Gene: Cici_5 Start: 2733, Stop: 3395, Start Num: 162
Candidate Starts for Cici_5:
(Start: 162 @2733 has 386 MA's), (Start: 229 @2838 has 1 MA's), (321, 3153),

Gene: Cindaradix_5 Start: 2722, Stop: 3387, Start Num: 162
Candidate Starts for Cindaradix_5:

(Start: 162 @2722 has 386 MA's), (213, 2803), (301, 3076),

Gene: CinnamonToast_34 Start: 37893, Stop: 38795, Start Num: 47
Candidate Starts for CinnamonToast_34:
(Start: 47 @37893 has 35 MA's), (114, 38061), (128, 38097), (138, 38112), (147, 38127), (154, 38139), (226, 38238), (251, 38319), (264, 38373), (341, 38610), (377, 38736), (385, 38778),

Gene: Cintron_5 Start: 2722, Stop: 3387, Start Num: 162
Candidate Starts for Cintron_5:
(Start: 162 @2722 has 386 MA's), (213, 2803), (217, 2809), (273, 2989), (306, 3115),

Gene: Citius_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Citius_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Clammy_4 Start: 2830, Stop: 3480, Start Num: 162
Candidate Starts for Clammy_4:
(Start: 162 @2830 has 386 MA's), (273, 3097), (383, 3460),

Gene: Clarenza_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Clarenza_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: CloudWang3_8 Start: 4661, Stop: 5359, Start Num: 142
Candidate Starts for CloudWang3_8:
(Start: 142 @4661 has 48 MA's), (337, 5165), (385, 5351),

Gene: ClownCar_5 Start: 2888, Stop: 3535, Start Num: 162
Candidate Starts for ClownCar_5:
(Start: 162 @2888 has 386 MA's), (231, 2996), (252, 3071), (256, 3101), (257, 3104),

Gene: Cocoaberry_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Cocoaberry_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: CogOmlette_30 Start: 23978, Stop: 24619, Start Num: 159
Candidate Starts for CogOmlette_30:
(122, 23906), (Start: 159 @23978 has 11 MA's), (240, 24113), (250, 24161), (314, 24392), (383, 24599),

Gene: Colbster_5 Start: 2629, Stop: 3264, Start Num: 162
Candidate Starts for Colbster_5:
(Start: 162 @2629 has 386 MA's), (257, 2842),

Gene: Colin_9 Start: 5247, Stop: 5933, Start Num: 162
Candidate Starts for Colin_9:
(Start: 162 @5247 has 386 MA's), (251, 5421), (293, 5571), (346, 5742), (373, 5862),

Gene: Collard_27 Start: 24040, Stop: 25104, Start Num: 21
Candidate Starts for Collard_27:

(Start: 21 @24040 has 70 MA's), (43, 24130), (48, 24157), (71, 24220), (92, 24268), (108, 24307), (117, 24325), (134, 24370), (156, 24409), (185, 24457), (195, 24475), (234, 24550), (251, 24616), (273, 24706), (274, 24709), (275, 24712), (287, 24745), (314, 24844), (315, 24847), (342, 24931), (344, 24943), (380, 25060),

Gene: Commander_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Commander_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Connomayer_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Connomayer_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Conquerage_8 Start: 5224, Stop: 5895, Start Num: 162
Candidate Starts for Conquerage_8:
(Start: 162 @5224 has 386 MA's), (257, 5434), (279, 5506), (321, 5647), (357, 5740), (370, 5818), (383, 5872),

Gene: Coog_5 Start: 3571, Stop: 4233, Start Num: 162
Candidate Starts for Coog_5:
(Start: 162 @3571 has 386 MA's), (170, 3583), (182, 3607), (190, 3622), (Start: 204 @3637 has 1 MA's), (242, 3712), (275, 3841), (351, 4063),

Gene: Cookiedough_8 Start: 4661, Stop: 5359, Start Num: 142
Candidate Starts for Cookiedough_8:
(Start: 142 @4661 has 48 MA's), (337, 5165), (385, 5351),

Gene: Cracklewink_28 Start: 26155, Stop: 27216, Start Num: 21
Candidate Starts for Cracklewink_28:
(Start: 21 @26155 has 70 MA's), (56, 26293), (63, 26314), (64, 26317), (83, 26365), (86, 26368), (117, 26443), (134, 26488), (Start: 159 @26530 has 11 MA's), (Start: 162 @26533 has 386 MA's), (172, 26551), (185, 26575), (193, 26587), (199, 26596), (Start: 204 @26602 has 1 MA's), (251, 26734), (273, 26824), (292, 26881), (308, 26956), (340, 27037), (385, 27199),

Gene: Croquant_6 Start: 2629, Stop: 3264, Start Num: 162
Candidate Starts for Croquant_6:
(Start: 162 @2629 has 386 MA's), (257, 2842),

Gene: Cuco_5 Start: 3602, Stop: 4264, Start Num: 162
Candidate Starts for Cuco_5:
(Start: 162 @3602 has 386 MA's), (170, 3614), (182, 3638), (190, 3653), (Start: 204 @3668 has 1 MA's), (242, 3743), (275, 3872), (351, 4094),

Gene: Cullens_5 Start: 2629, Stop: 3264, Start Num: 162
Candidate Starts for Cullens_5:
(Start: 162 @2629 has 386 MA's), (257, 2842),

Gene: Curiosium_29 Start: 23069, Stop: 24148, Start Num: 21
Candidate Starts for Curiosium_29:
(Start: 21 @23069 has 70 MA's), (28, 23096), (Start: 47 @23183 has 35 MA's), (62, 23228), (68, 23243), (71, 23249), (78, 23276), (90, 23291), (108, 23336), (109, 23339), (114, 23351), (123, 23372),

(134, 23399), (143, 23420), (185, 23486), (246, 23630), (250, 23651), (252, 23657), (304, 23855), (321, 23888), (324, 23897),

Gene: D29_32 Start: 24412, Stop: 25083, Start Num: 162
Candidate Starts for D29_32:
(Start: 162 @24412 has 386 MA's), (217, 24502), (231, 24523), (250, 24592), (257, 24628), (270, 24676), (347, 24916), (349, 24919), (375, 25018), (379, 25033),

Gene: D32_35 Start: 24412, Stop: 25083, Start Num: 162
Candidate Starts for D32_35:
(Start: 162 @24412 has 386 MA's), (217, 24502), (231, 24523), (250, 24592), (257, 24628), (270, 24676), (347, 24916), (349, 24919), (375, 25018), (379, 25033),

Gene: DBQu4n_35 Start: 24412, Stop: 25083, Start Num: 162
Candidate Starts for DBQu4n_35:
(Start: 162 @24412 has 386 MA's), (217, 24502), (231, 24523), (250, 24592), (257, 24628), (270, 24676), (347, 24916), (349, 24919), (375, 25018), (379, 25033),

Gene: DaHudson_5 Start: 2890, Stop: 3549, Start Num: 162
Candidate Starts for DaHudson_5:
(Start: 162 @2890 has 386 MA's), (252, 3073), (257, 3106), (279, 3175), (383, 3529),

Gene: DaVinci_8 Start: 4662, Stop: 5360, Start Num: 142
Candidate Starts for DaVinci_8:
(Start: 142 @4662 has 48 MA's), (337, 5166), (385, 5352),

Gene: Daishi_5 Start: 2404, Stop: 3036, Start Num: 162
Candidate Starts for Daishi_5:
(Start: 162 @2404 has 386 MA's), (252, 2587), (253, 2590), (257, 2617),

Gene: Damp_30 Start: 37270, Stop: 38172, Start Num: 47
Candidate Starts for Damp_30:
(Start: 47 @37270 has 35 MA's), (103, 37408), (128, 37477), (154, 37525), (194, 37588), (226, 37624), (271, 37792), (357, 38026), (361, 38044), (383, 38149),

Gene: DanSyl44_30 Start: 25030, Stop: 26100, Start Num: 21
Candidate Starts for DanSyl44_30:
(Start: 19 @25027 has 4 MA's), (Start: 21 @25030 has 70 MA's), (98, 25270), (110, 25306), (114, 25315), (118, 25321), (134, 25366), (Start: 159 @25411 has 11 MA's), (Start: 171 @25429 has 1 MA's), (185, 25456), (Start: 229 @25537 has 1 MA's), (246, 25594), (251, 25618),

Gene: Danforth_4 Start: 3362, Stop: 4021, Start Num: 173
Candidate Starts for Danforth_4:
(Start: 173 @3362 has 12 MA's), (209, 3419), (214, 3428), (Start: 229 @3461 has 1 MA's), (354, 3878),

Gene: Daredevil_37 Start: 34603, Stop: 35670, Start Num: 24
Candidate Starts for Daredevil_37:
(Start: 24 @34603 has 2 MA's), (148, 34948), (176, 34993), (190, 35023), (287, 35314), (289, 35320), (293, 35338), (310, 35404), (311, 35407), (321, 35425), (338, 35473), (386, 35659),

Gene: Darrell_8 Start: 5117, Stop: 5806, Start Num: 162
Candidate Starts for Darrell_8:

(Start: 162 @5117 has 386 MA's), (241, 5261), (246, 5282), (261, 5354), (273, 5393), (290, 5444), (291, 5447), (326, 5579), (339, 5618), (367, 5708), (385, 5792),

Gene: Datway_5 Start: 2733, Stop: 3395, Start Num: 162
Candidate Starts for Datway_5:
(Start: 162 @2733 has 386 MA's), (Start: 229 @2838 has 1 MA's), (321, 3153),

Gene: DaviePasture_33 Start: 29342, Stop: 30391, Start Num: 20
Candidate Starts for DaviePasture_33:
(Start: 20 @29342 has 31 MA's), (48, 29456), (56, 29477), (84, 29552), (93, 29567), (117, 29630), (218, 29831), (Start: 229 @29855 has 1 MA's), (276, 30026), (344, 30239), (354, 30254), (369, 30299),

Gene: Deano_5 Start: 2722, Stop: 3390, Start Num: 162
Candidate Starts for Deano_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (292, 3046), (321, 3142),

Gene: DelRio_28 Start: 24323, Stop: 25387, Start Num: 22
Candidate Starts for DelRio_28:
(Start: 22 @24323 has 14 MA's), (175, 24701), (240, 24842), (243, 24854), (246, 24866), (251, 24890), (270, 24974), (284, 25013), (315, 25121),

Gene: DelvinSonDorr_7 Start: 4663, Stop: 5361, Start Num: 142
Candidate Starts for DelvinSonDorr_7:
(Start: 142 @4663 has 48 MA's), (337, 5167), (385, 5353),

Gene: Demikore_38 Start: 32041, Stop: 33081, Start Num: 17
Candidate Starts for Demikore_38:
(Start: 17 @32041 has 4 MA's), (33, 32119), (53, 32197), (139, 32410), (Start: 141 @32416 has 3 MA's), (192, 32494), (246, 32587), (252, 32614),

Gene: Dhanush_5 Start: 2721, Stop: 3383, Start Num: 162
Candidate Starts for Dhanush_5:
(Start: 162 @2721 has 386 MA's), (Start: 229 @2826 has 1 MA's), (319, 3138), (321, 3141), (385, 3366),

Gene: Diabla_32 Start: 37690, Stop: 38598, Start Num: 47
Candidate Starts for Diabla_32:
(Start: 47 @37690 has 35 MA's), (103, 37825), (154, 37942), (194, 38005), (226, 38041), (271, 38209), (383, 38575), (385, 38581),

Gene: Diminimus_32 Start: 26991, Stop: 28046, Start Num: 21
Candidate Starts for Diminimus_32:
(Start: 21 @26991 has 70 MA's), (86, 27204), (103, 27240), (127, 27303), (Start: 169 @27375 has 10 MA's), (185, 27405), (198, 27426), (218, 27462), (234, 27498), (246, 27546), (250, 27567), (252, 27573), (256, 27603), (257, 27606), (271, 27654), (341, 27864), (361, 27918),

Gene: DirtyDunning_5 Start: 2720, Stop: 3385, Start Num: 162
Candidate Starts for DirtyDunning_5:
(Start: 162 @2720 has 386 MA's), (213, 2801), (217, 2807), (250, 2897), (273, 2987), (306, 3113),

Gene: Discoknowium_5 Start: 3710, Stop: 4375, Start Num: 162
Candidate Starts for Discoknowium_5:

(Start: 162 @3710 has 386 MA's), (Start: 174 @3728 has 5 MA's), (Start: 204 @3776 has 1 MA's), (217, 3797), (252, 3893),

Gene: Dixon_5 Start: 3348, Stop: 4007, Start Num: 173
Candidate Starts for Dixon_5:
(Start: 173 @3348 has 12 MA's), (209, 3405), (Start: 229 @3447 has 1 MA's), (318, 3765), (354, 3864),

Gene: Dogfish_30 Start: 26617, Stop: 27699, Start Num: 21
Candidate Starts for Dogfish_30:
(Start: 21 @26617 has 70 MA's), (84, 26827), (117, 26905), (137, 26959), (166, 27004), (197, 27061), (199, 27067), (Start: 229 @27130 has 1 MA's), (246, 27187), (249, 27202), (279, 27319),

Gene: DoobyDoo_32 Start: 28492, Stop: 29541, Start Num: 20
Candidate Starts for DoobyDoo_32:
(Start: 20 @28492 has 31 MA's), (38, 28567), (48, 28606), (56, 28627), (84, 28702), (93, 28717), (117, 28780), (140, 28840), (199, 28942), (276, 29176), (354, 29404),

Gene: Dorothea_8 Start: 4661, Stop: 5359, Start Num: 142
Candidate Starts for Dorothea_8:
(Start: 142 @4661 has 48 MA's), (337, 5165), (385, 5351),

Gene: DoubleChamp_27 Start: 24040, Stop: 25104, Start Num: 21
Candidate Starts for DoubleChamp_27:
(Start: 21 @24040 has 70 MA's), (43, 24130), (48, 24157), (71, 24220), (92, 24268), (108, 24307), (117, 24325), (134, 24370), (156, 24409), (185, 24457), (195, 24475), (234, 24550), (251, 24616), (273, 24706), (274, 24709), (275, 24712), (287, 24745), (314, 24844), (315, 24847), (342, 24931), (344, 24943), (380, 25060),

Gene: DreamTeam1_32 Start: 23986, Stop: 24633, Start Num: 162
Candidate Starts for DreamTeam1_32:
(Start: 162 @23986 has 386 MA's), (166, 23992), (183, 24025), (200, 24049), (221, 24085), (231, 24097), (250, 24166), (252, 24172), (253, 24175), (257, 24205), (279, 24274), (292, 24313),

Gene: DropBear_5 Start: 2913, Stop: 3572, Start Num: 162
Candidate Starts for DropBear_5:
(Start: 162 @2913 has 386 MA's), (252, 3096), (303, 3297), (345, 3417),

Gene: Druantia_5 Start: 2723, Stop: 3385, Start Num: 162
Candidate Starts for Druantia_5:
(Start: 162 @2723 has 386 MA's), (Start: 229 @2828 has 1 MA's), (319, 3140), (321, 3143), (385, 3368),

Gene: Dublin_4 Start: 3571, Stop: 4233, Start Num: 162
Candidate Starts for Dublin_4:
(Start: 162 @3571 has 386 MA's), (182, 3607), (190, 3622), (Start: 204 @3637 has 1 MA's), (242, 3712), (275, 3841), (351, 4063),

Gene: Dulcita_32 Start: 26991, Stop: 28046, Start Num: 21
Candidate Starts for Dulcita_32:
(Start: 21 @26991 has 70 MA's), (86, 27204), (103, 27240), (127, 27303), (Start: 169 @27375 has 10 MA's), (185, 27405), (198, 27426), (218, 27462), (234, 27498), (246, 27546), (250, 27567), (252, 27573), (256, 27603), (257, 27606), (271, 27654), (341, 27864), (361, 27918),

Gene: DumpsterDude_23 Start: 21990, Stop: 23072, Start Num: 20
Candidate Starts for DumpsterDude_23:
(11, 21855), (Start: 20 @21990 has 31 MA's), (36, 22062), (84, 22200), (99, 22230), (140, 22338), (168, 22380), (197, 22434), (246, 22560),

Gene: Duplo_35 Start: 24450, Stop: 25121, Start Num: 162
Candidate Starts for Duplo_35:
(Start: 162 @24450 has 386 MA's), (217, 24540), (231, 24561), (250, 24630), (257, 24666), (270, 24714), (347, 24954), (349, 24957), (375, 25056), (379, 25071),

Gene: DustyMartin_6 Start: 2752, Stop: 3399, Start Num: 162
Candidate Starts for DustyMartin_6:
(Start: 162 @2752 has 386 MA's), (177, 2776), (217, 2839), (250, 2929), (273, 3019), (299, 3112),

Gene: Dynamo_22 Start: 21688, Stop: 22722, Start Num: 21
Candidate Starts for Dynamo_22:
(Start: 21 @21688 has 70 MA's), (62, 21844), (64, 21850), (109, 21958), (110, 21961), (118, 21976), (Start: 159 @22063 has 11 MA's), (185, 22108), (Start: 229 @22189 has 1 MA's), (246, 22246), (251, 22270), (279, 22375), (298, 22447), (313, 22492),

Gene: EZMoney23_8 Start: 5345, Stop: 6004, Start Num: 162
Candidate Starts for EZMoney23_8:
(Start: 162 @5345 has 386 MA's), (252, 5528), (257, 5561), (273, 5612), (279, 5630), (385, 5990),

Gene: Eagle_4 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Eagle_4:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: EagleEye_8 Start: 4875, Stop: 5543, Start Num: 149
Candidate Starts for EagleEye_8:
(Start: 149 @4875 has 3 MA's), (219, 4968), (282, 5169), (325, 5310), (351, 5391),

Gene: Eaglepride_6 Start: 2816, Stop: 3460, Start Num: 162
Candidate Starts for Eaglepride_6:
(Start: 162 @2816 has 386 MA's), (217, 2903), (250, 2990), (252, 2996), (291, 3134), (299, 3173), (322, 3233),

Gene: Eapen_5 Start: 2724, Stop: 3386, Start Num: 162
Candidate Starts for Eapen_5:
(Start: 162 @2724 has 386 MA's), (Start: 229 @2829 has 1 MA's), (319, 3141), (321, 3144), (385, 3369),

Gene: Ebony_8 Start: 5416, Stop: 6078, Start Num: 162
Candidate Starts for Ebony_8:
(Start: 162 @5416 has 386 MA's), (Start: 204 @5482 has 1 MA's), (242, 5557), (268, 5668), (351, 5908), (362, 5953),

Gene: Edison31_5 Start: 2836, Stop: 3483, Start Num: 162
Candidate Starts for Edison31_5:
(Start: 162 @2836 has 386 MA's), (250, 3013), (288, 3145), (299, 3196), (300, 3199),

Gene: EdogawaKiddo_6 Start: 5239, Stop: 5868, Start Num: 162

Candidate Starts for EdogawaKiddo_6:
(Start: 162 @5239 has 386 MA's), (184, 5278), (252, 5419), (257, 5449), (262, 5464),

Gene: Edugator_27 Start: 24010, Stop: 25074, Start Num: 21
Candidate Starts for Edugator_27:
(Start: 21 @24010 has 70 MA's), (43, 24100), (50, 24130), (68, 24184), (71, 24190), (92, 24238), (108, 24277), (117, 24295), (118, 24298), (156, 24379), (185, 24427), (195, 24445), (251, 24586), (273, 24676), (274, 24679), (275, 24682), (287, 24715), (290, 24727), (314, 24814), (315, 24817), (380, 25030),

Gene: Eidsmoe_8 Start: 5224, Stop: 5895, Start Num: 162
Candidate Starts for Eidsmoe_8:
(Start: 162 @5224 has 386 MA's), (257, 5434), (279, 5506), (321, 5647), (357, 5740), (370, 5818), (383, 5872),

Gene: Elephantoon_8 Start: 4805, Stop: 5470, Start Num: 162
Candidate Starts for Elephantoon_8:
(Start: 162 @4805 has 386 MA's), (257, 5009), (275, 5069), (291, 5117), (307, 5198), (361, 5333), (370, 5393), (383, 5447),

Gene: EmyBug_8 Start: 5224, Stop: 5895, Start Num: 162
Candidate Starts for EmyBug_8:
(Start: 162 @5224 has 386 MA's), (250, 5398), (257, 5434), (321, 5647), (370, 5818),

Gene: EpicPhail_5 Start: 2629, Stop: 3264, Start Num: 162
Candidate Starts for EpicPhail_5:
(Start: 162 @2629 has 386 MA's), (257, 2842),

Gene: Eponine_29 Start: 24914, Stop: 25987, Start Num: 19
Candidate Starts for Eponine_29:
(Start: 19 @24914 has 4 MA's), (Start: 21 @24917 has 70 MA's), (98, 25157), (110, 25193), (114, 25202), (118, 25208), (134, 25253), (Start: 159 @25298 has 11 MA's), (Start: 171 @25316 has 1 MA's), (185, 25343), (Start: 229 @25424 has 1 MA's), (246, 25481), (251, 25505),

Gene: Epsocamisio_8 Start: 4403, Stop: 5071, Start Num: 169
Candidate Starts for Epsocamisio_8:
(Start: 169 @4403 has 10 MA's), (266, 4643), (285, 4709), (323, 4835),

Gene: EricB_8 Start: 4662, Stop: 5360, Start Num: 142
Candidate Starts for EricB_8:
(Start: 142 @4662 has 48 MA's), (337, 5166), (385, 5352),

Gene: Eris_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Eris_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Eros_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Eros_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Erutan_33 Start: 29002, Stop: 30048, Start Num: 20

Candidate Starts for Erutan_33:
(Start: 20 @29002 has 31 MA's), (48, 29116), (56, 29137), (84, 29212), (93, 29227), (117, 29290), (Start: 229 @29515 has 1 MA's), (276, 29686), (291, 29731), (354, 29914),

Gene: Et2Brutus_7 Start: 5413, Stop: 6075, Start Num: 162
Candidate Starts for Et2Brutus_7:
(Start: 162 @5413 has 386 MA's), (Start: 204 @5479 has 1 MA's), (242, 5554), (268, 5665), (351, 5905), (362, 5950),

Gene: EtoileNova_4 Start: 2764, Stop: 3423, Start Num: 162
Candidate Starts for EtoileNova_4:
(Start: 162 @2764 has 386 MA's), (176, 2785), (217, 2851), (250, 2941), (257, 2977), (332, 3223), (363, 3310),

Gene: Eurydice_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Eurydice_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Ewald_30 Start: 26639, Stop: 27724, Start Num: 20
Candidate Starts for Ewald_30:
(11, 26504), (Start: 20 @26639 has 31 MA's), (44, 26744), (52, 26762), (84, 26849), (183, 27062), (193, 27077), (Start: 204 @27104 has 1 MA's), (211, 27119), (246, 27212), (249, 27227), (261, 27284), (279, 27344), (290, 27377),

Gene: Expelliarmus_4 Start: 3348, Stop: 4007, Start Num: 173
Candidate Starts for Expelliarmus_4:
(Start: 173 @3348 has 12 MA's), (209, 3405), (Start: 229 @3447 has 1 MA's), (354, 3864),

Gene: ExplosioNervosa_8 Start: 5227, Stop: 5898, Start Num: 162
Candidate Starts for ExplosioNervosa_8:
(Start: 162 @5227 has 386 MA's), (250, 5401), (257, 5437), (321, 5650), (370, 5821),

Gene: FF47_25 Start: 21654, Stop: 22679, Start Num: 13
Candidate Starts for FF47_25:
(Start: 13 @21654 has 2 MA's), (33, 21744), (53, 21813), (55, 21822), (85, 21900), (111, 21963), (113, 21966), (192, 22110), (219, 22146), (258, 22254), (335, 22491), (373, 22617),

Gene: Faiyaz_28 Start: 26025, Stop: 27062, Start Num: 21
Candidate Starts for Faiyaz_28:
(Start: 21 @26025 has 70 MA's), (51, 26148), (71, 26202), (86, 26238), (114, 26301), (134, 26349), (168, 26403), (Start: 169 @26406 has 10 MA's), (250, 26592), (256, 26628), (269, 26670), (275, 26688), (292, 26739),

Gene: Farber_5 Start: 2891, Stop: 3550, Start Num: 162
Candidate Starts for Farber_5:
(Start: 162 @2891 has 386 MA's), (252, 3074), (257, 3107), (279, 3176), (383, 3530),

Gene: Farewell_21 Start: 21884, Stop: 22930, Start Num: 21
Candidate Starts for Farewell_21:
(Start: 21 @21884 has 70 MA's), (75, 22076), (86, 22097), (134, 22208), (Start: 159 @22250 has 11 MA's), (Start: 162 @22253 has 386 MA's), (250, 22454), (256, 22490), (291, 22598), (341, 22751), (343, 22760), (348, 22772),

Gene: FatCactus_5 Start: 2885, Stop: 3526, Start Num: 163
Candidate Starts for FatCactus_5:
(Start: 163 @2885 has 2 MA's), (225, 2984), (231, 2993), (251, 3062), (286, 3185),

Gene: Fayely_8 Start: 5227, Stop: 5898, Start Num: 162
Candidate Starts for Fayely_8:
(Start: 162 @5227 has 386 MA's), (250, 5401), (257, 5437), (321, 5650), (370, 5821),

Gene: FelixAlejandro_34 Start: 38037, Stop: 38939, Start Num: 47
Candidate Starts for FelixAlejandro_34:
(Start: 47 @38037 has 35 MA's), (103, 38172), (114, 38205), (138, 38256), (154, 38283), (226, 38382), (251, 38463), (264, 38517), (341, 38754), (377, 38880), (385, 38922),

Gene: Fernando_5 Start: 2629, Stop: 3264, Start Num: 162
Candidate Starts for Fernando_5:
(Start: 162 @2629 has 386 MA's), (257, 2842),

Gene: Feyre_27 Start: 23851, Stop: 24918, Start Num: 21
Candidate Starts for Feyre_27:
(Start: 21 @23851 has 70 MA's), (48, 23968), (90, 24073), (92, 24079), (118, 24139), (123, 24154), (134, 24181), (156, 24220), (Start: 159 @24223 has 11 MA's), (168, 24235), (Start: 169 @24238 has 10 MA's), (Start: 171 @24241 has 1 MA's), (Start: 178 @24256 has 2 MA's), (Start: 204 @24301 has 1 MA's), (207, 24307), (234, 24361), (246, 24409), (253, 24439), (263, 24484), (317, 24667),

Gene: Fibonacci_8 Start: 5413, Stop: 6075, Start Num: 162
Candidate Starts for Fibonacci_8:
(Start: 162 @5413 has 386 MA's), (Start: 204 @5479 has 1 MA's), (242, 5554), (351, 5905), (362, 5950),

Gene: Flaverint_8 Start: 5410, Stop: 6072, Start Num: 162
Candidate Starts for Flaverint_8:
(Start: 162 @5410 has 386 MA's), (Start: 204 @5476 has 1 MA's), (242, 5551), (268, 5662), (351, 5902),

Gene: Florean_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Florean_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Florence1_5 Start: 3415, Stop: 4056, Start Num: 141
Candidate Starts for Florence1_5:
(Start: 141 @3415 has 3 MA's), (225, 3523), (249, 3583), (260, 3631), (265, 3637), (273, 3676), (290, 3727), (383, 4033),

Gene: Florence4_6 Start: 3415, Stop: 4056, Start Num: 141
Candidate Starts for Florence4_6:
(Start: 141 @3415 has 3 MA's), (225, 3523), (249, 3583), (260, 3631), (265, 3637), (273, 3676), (290, 3727), (383, 4033),

Gene: Flux_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Flux_5:

(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: ForesterFrank_7 Start: 5331, Stop: 5987, Start Num: 162
Candidate Starts for ForesterFrank_7:
(Start: 162 @5331 has 386 MA's), (231, 5439), (233, 5442), (292, 5652), (306, 5721), (318, 5748),

Gene: Francois_27 Start: 23338, Stop: 24405, Start Num: 22
Candidate Starts for Francois_27:
(Start: 22 @23338 has 14 MA's), (175, 23716), (240, 23857), (246, 23884), (251, 23908), (270, 23992), (315, 24139),

Gene: FreakyGoo_32 Start: 26992, Stop: 28047, Start Num: 21
Candidate Starts for FreakyGoo_32:
(Start: 21 @26992 has 70 MA's), (86, 27205), (103, 27241), (127, 27304), (Start: 169 @27376 has 10 MA's), (185, 27406), (198, 27427), (218, 27463), (234, 27499), (246, 27547), (250, 27568), (252, 27574), (256, 27604), (257, 27607), (271, 27655), (333, 27844), (341, 27865), (361, 27919),

Gene: Fred313_5 Start: 2736, Stop: 3398, Start Num: 162
Candidate Starts for Fred313_5:
(Start: 162 @2736 has 386 MA's), (250, 2913), (257, 2949), (262, 2964), (275, 3009), (354, 3237), (364, 3270),

Gene: Fulcrum_34 Start: 29520, Stop: 30569, Start Num: 20
Candidate Starts for Fulcrum_34:
(Start: 20 @29520 has 31 MA's), (48, 29634), (56, 29655), (84, 29730), (93, 29745), (117, 29808), (140, 29868), (199, 29970), (Start: 229 @30033 has 1 MA's), (276, 30204), (354, 30432),

Gene: Funston_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Funston_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: GMA6_18 Start: 14860, Stop: 15507, Start Num: 182
Candidate Starts for GMA6_18:
(182, 14860), (186, 14869), (238, 14971), (378, 15448),

Gene: GMA7_23 Start: 30667, Stop: 31671, Start Num: 30
Candidate Starts for GMA7_23:
(Start: 30 @30667 has 3 MA's), (42, 30715), (45, 30733), (81, 30829), (88, 30838), (116, 30904), (155, 30985), (237, 31138), (245, 31165), (249, 31186), (274, 31288), (308, 31414), (354, 31516), (383, 31648),

Gene: GOATification_34 Start: 29520, Stop: 30569, Start Num: 20
Candidate Starts for GOATification_34:
(Start: 20 @29520 has 31 MA's), (48, 29634), (56, 29655), (84, 29730), (93, 29745), (117, 29808), (140, 29868), (199, 29970), (Start: 229 @30033 has 1 MA's), (276, 30204), (354, 30432),

Gene: GTE7_23 Start: 30698, Stop: 31702, Start Num: 30
Candidate Starts for GTE7_23:
(Start: 30 @30698 has 3 MA's), (42, 30746), (45, 30764), (73, 30842), (81, 30860), (88, 30869), (116, 30935), (155, 31016), (237, 31169), (245, 31196), (249, 31217), (274, 31319), (308, 31445), (354, 31547), (383, 31679),

Gene: Gadost_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Gadost_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: GalacticEye_30 Start: 38068, Stop: 38970, Start Num: 47
Candidate Starts for GalacticEye_30:
(Start: 47 @38068 has 35 MA's), (103, 38206), (128, 38275), (154, 38323), (194, 38386), (226, 38422), (271, 38590), (361, 38842), (383, 38947),

Gene: Garak_8 Start: 4661, Stop: 5359, Start Num: 142
Candidate Starts for Garak_8:
(Start: 142 @4661 has 48 MA's), (337, 5165), (385, 5351),

Gene: GaugeLDP_8 Start: 4848, Stop: 5522, Start Num: 162
Candidate Starts for GaugeLDP_8:
(Start: 162 @4848 has 386 MA's), (250, 5025), (257, 5061), (273, 5115), (292, 5172), (352, 5352),

Gene: Gemma_5 Start: 2888, Stop: 3538, Start Num: 162
Candidate Starts for Gemma_5:
(Start: 162 @2888 has 386 MA's), (231, 2996), (252, 3071), (303, 3263),

Gene: Genamy16_33 Start: 27521, Stop: 28618, Start Num: 15
Candidate Starts for Genamy16_33:
(Start: 15 @27521 has 11 MA's), (41, 27635), (70, 27728), (82, 27761), (85, 27764), (87, 27767), (95, 27785), (96, 27788), (101, 27800), (120, 27848), (145, 27911), (181, 27965), (240, 28061), (249, 28103), (308, 28337), (325, 28376), (353, 28463), (388, 28610),

Gene: Gengar_27 Start: 23958, Stop: 25028, Start Num: 21
Candidate Starts for Gengar_27:
(Start: 21 @23958 has 70 MA's), (68, 24132), (92, 24186), (117, 24243), (118, 24246), (123, 24261), (134, 24288), (156, 24327), (Start: 159 @24330 has 11 MA's), (168, 24342), (Start: 169 @24345 has 10 MA's), (Start: 171 @24348 has 1 MA's), (207, 24417), (234, 24471), (253, 24549), (263, 24594), (317, 24777),

Gene: George_4 Start: 3602, Stop: 4264, Start Num: 162
Candidate Starts for George_4:
(Start: 162 @3602 has 386 MA's), (170, 3614), (182, 3638), (190, 3653), (Start: 204 @3668 has 1 MA's), (242, 3743), (275, 3872), (351, 4094),

Gene: Ghoulboy_5 Start: 3679, Stop: 4344, Start Num: 162
Candidate Starts for Ghoulboy_5:
(Start: 162 @3679 has 386 MA's), (Start: 174 @3697 has 5 MA's), (Start: 204 @3745 has 1 MA's), (217, 3766), (252, 3862), (374, 4291),

Gene: Gibbin_34 Start: 29619, Stop: 30668, Start Num: 20
Candidate Starts for Gibbin_34:
(Start: 20 @29619 has 31 MA's), (48, 29733), (62, 29775), (84, 29829), (93, 29844), (117, 29907), (276, 30303), (291, 30348), (319, 30438), (354, 30531),

Gene: Gilberta_8 Start: 5407, Stop: 6069, Start Num: 162
Candidate Starts for Gilberta_8:

(Start: 162 @5407 has 386 MA's), (Start: 204 @5473 has 1 MA's), (242, 5548), (268, 5659), (351, 5899),

Gene: GingkoMaracino_5 Start: 2809, Stop: 3468, Start Num: 162
Candidate Starts for GingkoMaracino_5:
(Start: 162 @2809 has 386 MA's), (217, 2896), (240, 2938), (252, 2992), (273, 3076), (279, 3094),

Gene: Giroux_5 Start: 2830, Stop: 3480, Start Num: 162
Candidate Starts for Giroux_5:
(Start: 162 @2830 has 386 MA's), (273, 3097), (383, 3460),

Gene: Gladiator_8 Start: 4655, Stop: 5353, Start Num: 142
Candidate Starts for Gladiator_8:
(Start: 142 @4655 has 48 MA's), (337, 5159), (385, 5345),

Gene: Glaske16_32 Start: 26991, Stop: 28046, Start Num: 21
Candidate Starts for Glaske16_32:
(Start: 21 @26991 has 70 MA's), (86, 27204), (103, 27240), (127, 27303), (Start: 169 @27375 has 10 MA's), (185, 27405), (198, 27426), (218, 27462), (234, 27498), (246, 27546), (250, 27567), (252, 27573), (256, 27603), (257, 27606), (271, 27654), (341, 27864), (361, 27918),

Gene: Goose_5 Start: 2818, Stop: 3465, Start Num: 162
Candidate Starts for Goose_5:
(Start: 162 @2818 has 386 MA's), (217, 2905), (250, 2995), (288, 3127), (299, 3178), (300, 3181), (309, 3217), (385, 3451),

Gene: Goose1D_5 Start: 2283, Stop: 2945, Start Num: 162
Candidate Starts for Goose1D_5:
(Start: 162 @2283 has 386 MA's), (250, 2460), (257, 2496), (262, 2511), (275, 2556), (354, 2784), (364, 2817),

Gene: Goose1X_5 Start: 2355, Stop: 3017, Start Num: 162
Candidate Starts for Goose1X_5:
(Start: 162 @2355 has 386 MA's), (250, 2532), (257, 2568), (262, 2583), (275, 2628), (354, 2856), (364, 2889),

Gene: GrandSlam_27 Start: 23849, Stop: 24916, Start Num: 22
Candidate Starts for GrandSlam_27:
(Start: 22 @23849 has 14 MA's), (175, 24227), (240, 24368), (243, 24383), (246, 24395), (251, 24419), (270, 24503), (273, 24509), (284, 24542), (289, 24554), (315, 24650), (319, 24653), (325, 24674),

Gene: GreedyLawyer_8 Start: 4661, Stop: 5359, Start Num: 142
Candidate Starts for GreedyLawyer_8:
(Start: 142 @4661 has 48 MA's), (337, 5165), (385, 5351),

Gene: GretelLyn_33 Start: 29878, Stop: 30933, Start Num: 20
Candidate Starts for GretelLyn_33:
(Start: 20 @29878 has 31 MA's), (48, 29992), (62, 30034), (84, 30088), (93, 30103), (117, 30166), (140, 30226), (199, 30328), (Start: 229 @30391 has 1 MA's), (276, 30562), (354, 30796),

Gene: Grif_5 Start: 2719, Stop: 3351, Start Num: 162
Candidate Starts for Grif_5:
(Start: 162 @2719 has 386 MA's), (252, 2902), (253, 2905), (257, 2932),

Gene: Groundhog_4 Start: 3349, Stop: 4008, Start Num: 173
Candidate Starts for Groundhog_4:
(Start: 173 @3349 has 12 MA's), (209, 3406), (Start: 229 @3448 has 1 MA's), (354, 3865),

Gene: Groupthink_6 Start: 2888, Stop: 3538, Start Num: 162
Candidate Starts for Groupthink_6:
(Start: 162 @2888 has 386 MA's), (231, 2996), (252, 3071), (303, 3263),

Gene: Grum1_5 Start: 2629, Stop: 3261, Start Num: 162
Candidate Starts for Grum1_5:
(Start: 162 @2629 has 386 MA's), (252, 2812), (253, 2815), (257, 2842),

Gene: Gruunaga_8 Start: 4655, Stop: 5353, Start Num: 142
Candidate Starts for Gruunaga_8:
(Start: 142 @4655 has 48 MA's), (337, 5159), (385, 5345),

Gene: Guillaume_30 Start: 38118, Stop: 39020, Start Num: 47
Candidate Starts for Guillaume_30:
(Start: 47 @38118 has 35 MA's), (103, 38256), (108, 38274), (128, 38325), (154, 38373), (194, 38436), (226, 38472), (271, 38640), (357, 38874), (361, 38892), (383, 38997),

Gene: Guillsminger_27 Start: 23933, Stop: 25000, Start Num: 21
Candidate Starts for Guillsminger_27:
(Start: 21 @23933 has 70 MA's), (48, 24050), (68, 24107), (90, 24155), (92, 24161), (117, 24218), (118, 24221), (123, 24236), (134, 24263), (156, 24302), (Start: 159 @24305 has 11 MA's), (168, 24317), (Start: 169 @24320 has 10 MA's), (Start: 171 @24323 has 1 MA's), (Start: 178 @24338 has 2 MA's), (Start: 204 @24383 has 1 MA's), (207, 24389), (234, 24443), (246, 24491), (253, 24521), (263, 24566), (298, 24695), (317, 24749),

Gene: Gwennie_5 Start: 2629, Stop: 3264, Start Num: 162
Candidate Starts for Gwennie_5:
(Start: 162 @2629 has 386 MA's), (257, 2842),

Gene: Hail2Pitt_30 Start: 38595, Stop: 39497, Start Num: 47
Candidate Starts for Hail2Pitt_30:
(Start: 47 @38595 has 35 MA's), (103, 38733), (128, 38802), (154, 38850), (194, 38913), (226, 38949), (232, 38958), (271, 39117), (357, 39351), (361, 39369), (383, 39474),

Gene: HamSlice_4 Start: 2723, Stop: 3385, Start Num: 162
Candidate Starts for HamSlice_4:
(Start: 162 @2723 has 386 MA's), (Start: 229 @2828 has 1 MA's), (319, 3140), (321, 3143), (385, 3368),

Gene: Hammer_8 Start: 4655, Stop: 5353, Start Num: 142
Candidate Starts for Hammer_8:
(Start: 142 @4655 has 48 MA's), (248, 4856), (337, 5159), (385, 5345),

Gene: Hamood_27 Start: 23849, Stop: 24916, Start Num: 22
Candidate Starts for Hamood_27:
(Start: 22 @23849 has 14 MA's), (175, 24227), (240, 24368), (243, 24383), (246, 24395), (251, 24419), (270, 24503), (273, 24509), (284, 24542), (289, 24554), (315, 24650), (319, 24653), (325, 24674),

Gene: Hanray_7 Start: 5230, Stop: 5901, Start Num: 162
Candidate Starts for Hanray_7:
(Start: 162 @5230 has 386 MA's), (250, 5404), (257, 5440), (321, 5653), (370, 5824),

Gene: Happiness_5 Start: 2724, Stop: 3389, Start Num: 162
Candidate Starts for Happiness_5:
(Start: 162 @2724 has 386 MA's), (250, 2901), (273, 2991), (306, 3117), (385, 3372),

Gene: Harambe_30 Start: 38385, Stop: 39287, Start Num: 47
Candidate Starts for Harambe_30:
(Start: 47 @38385 has 35 MA's), (103, 38523), (128, 38592), (154, 38640), (194, 38703), (226, 38739), (271, 38907), (357, 39141), (361, 39159), (383, 39264),

Gene: HashRod_6 Start: 2720, Stop: 3352, Start Num: 162
Candidate Starts for HashRod_6:
(Start: 162 @2720 has 386 MA's), (252, 2903), (253, 2906), (257, 2933),

Gene: HaveUMetTed_6 Start: 2888, Stop: 3538, Start Num: 162
Candidate Starts for HaveUMetTed_6:
(Start: 162 @2888 has 386 MA's), (231, 2996), (252, 3071), (303, 3263),

Gene: HayZem_32 Start: 36450, Stop: 37454, Start Num: 30
Candidate Starts for HayZem_32:
(Start: 30 @36450 has 3 MA's), (42, 36498), (45, 36516), (81, 36612), (88, 36621), (116, 36687), (155, 36768), (237, 36921), (245, 36948), (249, 36969), (274, 37071), (308, 37197), (354, 37299), (383, 37431),

Gene: Heathen_5 Start: 2661, Stop: 3311, Start Num: 162
Candidate Starts for Heathen_5:
(Start: 162 @2661 has 386 MA's), (252, 2844), (303, 3036), (345, 3156),

Gene: Heffalump_9 Start: 5602, Stop: 6279, Start Num: 163
Candidate Starts for Heffalump_9:
(Start: 163 @5602 has 2 MA's), (251, 5782), (270, 5860), (290, 5917), (347, 6112), (360, 6151), (368, 6181), (373, 6211),

Gene: Heftyboy_27 Start: 24081, Stop: 25148, Start Num: 21
Candidate Starts for Heftyboy_27:
(Start: 21 @24081 has 70 MA's), (48, 24198), (68, 24255), (90, 24303), (92, 24309), (117, 24366), (118, 24369), (123, 24384), (134, 24411), (156, 24450), (Start: 159 @24453 has 11 MA's), (168, 24465), (Start: 169 @24468 has 10 MA's), (Start: 171 @24471 has 1 MA's), (Start: 178 @24486 has 2 MA's), (Start: 204 @24531 has 1 MA's), (207, 24537), (234, 24591), (246, 24639), (253, 24669), (263, 24714), (298, 24843), (317, 24897),

Gene: HelDan_5 Start: 2913, Stop: 3563, Start Num: 162
Candidate Starts for HelDan_5:
(Start: 162 @2913 has 386 MA's), (252, 3096), (303, 3288), (345, 3408),

Gene: Heliosoles_5 Start: 2888, Stop: 3538, Start Num: 162
Candidate Starts for Heliosoles_5:
(Start: 162 @2888 has 386 MA's), (231, 2996), (252, 3071), (256, 3101), (303, 3263),

Gene: Hello_30 Start: 38347, Stop: 39249, Start Num: 47

Candidate Starts for Hello_30:
(Start: 47 @38347 has 35 MA's), (103, 38485), (128, 38554), (154, 38602), (194, 38665), (226, 38701), (271, 38869), (361, 39121), (383, 39226),

Gene: Helmet_8 Start: 4661, Stop: 5359, Start Num: 142
Candidate Starts for Helmet_8:
(Start: 142 @4661 has 48 MA's), (337, 5165), (385, 5351),

Gene: Hercules11_5 Start: 2638, Stop: 3273, Start Num: 162
Candidate Starts for Hercules11_5:
(Start: 162 @2638 has 386 MA's), (257, 2851),

Gene: Hexamo_8 Start: 4616, Stop: 5314, Start Num: 142
Candidate Starts for Hexamo_8:
(Start: 142 @4616 has 48 MA's), (337, 5120), (385, 5306),

Gene: Hilltopfarm_28 Start: 26055, Stop: 27092, Start Num: 21
Candidate Starts for Hilltopfarm_28:
(Start: 21 @26055 has 70 MA's), (51, 26178), (71, 26232), (86, 26268), (114, 26331), (134, 26379), (168, 26433), (Start: 169 @26436 has 10 MA's), (250, 26622), (256, 26658), (269, 26700), (275, 26718), (292, 26769),

Gene: HippoHollow_8 Start: 5312, Stop: 5980, Start Num: 162
Candidate Starts for HippoHollow_8:
(Start: 162 @5312 has 386 MA's), (257, 5522), (292, 5633), (307, 5711), (339, 5780),

Gene: Holex_7 Start: 5230, Stop: 5901, Start Num: 162
Candidate Starts for Holex_7:
(Start: 162 @5230 has 386 MA's), (250, 5404), (257, 5440), (321, 5653), (370, 5824),

Gene: Holli_5 Start: 2515, Stop: 3177, Start Num: 162
Candidate Starts for Holli_5:
(Start: 162 @2515 has 386 MA's), (Start: 229 @2620 has 1 MA's), (319, 2932), (321, 2935), (385, 3160),

Gene: Hookmount_5 Start: 2764, Stop: 3423, Start Num: 162
Candidate Starts for Hookmount_5:
(Start: 162 @2764 has 386 MA's), (176, 2785), (217, 2851), (250, 2941), (257, 2977), (332, 3223), (363, 3310),

Gene: Hoot_8 Start: 4661, Stop: 5359, Start Num: 142
Candidate Starts for Hoot_8:
(Start: 142 @4661 has 48 MA's), (300, 5057), (337, 5165), (385, 5351),

Gene: HortumSL17_8 Start: 5239, Stop: 5868, Start Num: 162
Candidate Starts for HortumSL17_8:
(Start: 162 @5239 has 386 MA's), (184, 5278), (252, 5419), (257, 5449), (262, 5464),

Gene: Houdini22_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Houdini22_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: HubbaBubba_42 Start: 31720, Stop: 32760, Start Num: 20
Candidate Starts for HubbaBubba_42:
(Start: 20 @31720 has 31 MA's), (Start: 54 @31852 has 2 MA's), (125, 32035), (Start: 229 @32242 has 1 MA's), (234, 32251), (250, 32320), (251, 32323), (270, 32407), (321, 32560), (348, 32644), (354, 32653), (355, 32656), (372, 32752),

Gene: HuhtaEnerson15_5 Start: 3603, Stop: 4265, Start Num: 162
Candidate Starts for HuhtaEnerson15_5:
(Start: 162 @3603 has 386 MA's), (170, 3615), (182, 3639), (190, 3654), (Start: 204 @3669 has 1 MA's), (242, 3744), (275, 3873), (351, 4095),

Gene: Hutc2_8 Start: 5413, Stop: 6075, Start Num: 162
Candidate Starts for Hutc2_8:
(Start: 162 @5413 has 386 MA's), (Start: 204 @5479 has 1 MA's), (242, 5554), (351, 5905), (362, 5950),

Gene: Huxley_5 Start: 2806, Stop: 3474, Start Num: 162
Candidate Starts for Huxley_5:
(Start: 162 @2806 has 386 MA's), (Start: 204 @2872 has 1 MA's), (292, 3130), (321, 3226),

Gene: ICleared_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for ICleared_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: IPhane7_31 Start: 26992, Stop: 28047, Start Num: 21
Candidate Starts for IPhane7_31:
(Start: 21 @26992 has 70 MA's), (86, 27205), (103, 27241), (127, 27304), (Start: 169 @27376 has 10 MA's), (185, 27406), (198, 27427), (218, 27463), (234, 27499), (246, 27547), (250, 27568), (252, 27574), (256, 27604), (257, 27607), (271, 27655), (333, 27844), (341, 27865), (361, 27919),

Gene: Iceman_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Iceman_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Idleandcovert_4 Start: 2830, Stop: 3480, Start Num: 162
Candidate Starts for Idleandcovert_4:
(Start: 162 @2830 has 386 MA's), (273, 3097), (383, 3460),

Gene: Imbriano_7 Start: 4661, Stop: 5359, Start Num: 142
Candidate Starts for Imbriano_7:
(Start: 142 @4661 has 48 MA's), (337, 5165), (385, 5351),

Gene: Indra_8 Start: 4661, Stop: 5359, Start Num: 142
Candidate Starts for Indra_8:
(Start: 142 @4661 has 48 MA's), (337, 5165), (385, 5351),

Gene: Insomnia_8 Start: 5410, Stop: 6072, Start Num: 162
Candidate Starts for Insomnia_8:
(Start: 162 @5410 has 386 MA's), (Start: 204 @5476 has 1 MA's), (242, 5551), (268, 5662), (351, 5902), (362, 5947),

Gene: InvictusManeo_27 Start: 24083, Stop: 25147, Start Num: 21
Candidate Starts for InvictusManeo_27:
(Start: 21 @24083 has 70 MA's), (43, 24173), (48, 24200), (71, 24263), (92, 24311), (108, 24350), (117, 24368), (134, 24413), (156, 24452), (185, 24500), (195, 24518), (234, 24593), (251, 24659), (273, 24749), (274, 24752), (275, 24755), (287, 24788), (314, 24887), (315, 24890), (342, 24974), (344, 24986), (380, 25103),

Gene: Iracema64_5 Start: 2722, Stop: 3387, Start Num: 162
Candidate Starts for Iracema64_5:
(Start: 162 @2722 has 386 MA's), (213, 2803), (217, 2809), (273, 2989), (306, 3115),

Gene: IronMan_8 Start: 5076, Stop: 5738, Start Num: 162
Candidate Starts for IronMan_8:
(Start: 162 @5076 has 386 MA's), (213, 5157), (Start: 229 @5181 has 1 MA's), (321, 5490),

Gene: Isca_5 Start: 2750, Stop: 3385, Start Num: 162
Candidate Starts for Isca_5:
(Start: 162 @2750 has 386 MA's), (252, 2933), (257, 2963), (280, 3041), (292, 3074),

Gene: Isiphiwo_8 Start: 4661, Stop: 5359, Start Num: 142
Candidate Starts for Isiphiwo_8:
(Start: 142 @4661 has 48 MA's), (337, 5165), (385, 5351),

Gene: Izel_32 Start: 26991, Stop: 28046, Start Num: 21
Candidate Starts for Izel_32:
(Start: 21 @26991 has 70 MA's), (86, 27204), (103, 27240), (127, 27303), (Start: 169 @27375 has 10 MA's), (185, 27405), (198, 27426), (218, 27462), (234, 27498), (246, 27546), (250, 27567), (252, 27573), (256, 27603), (257, 27606), (271, 27654), (341, 27864), (361, 27918),

Gene: JF2_5 Start: 2514, Stop: 3149, Start Num: 162
Candidate Starts for JF2_5:
(Start: 162 @2514 has 386 MA's), (252, 2697), (257, 2727), (280, 2805), (292, 2838),

Gene: JF4_5 Start: 2514, Stop: 3149, Start Num: 162
Candidate Starts for JF4_5:
(Start: 162 @2514 has 386 MA's), (252, 2697), (257, 2727), (280, 2805), (292, 2838),

Gene: JHC117_5 Start: 2629, Stop: 3264, Start Num: 162
Candidate Starts for JHC117_5:
(Start: 162 @2629 has 386 MA's), (257, 2842),

Gene: JSwag_8 Start: 4403, Stop: 5071, Start Num: 169
Candidate Starts for JSwag_8:
(Start: 169 @4403 has 10 MA's), (266, 4643), (285, 4709), (323, 4835),

Gene: Jaan_8 Start: 5072, Stop: 5734, Start Num: 162
Candidate Starts for Jaan_8:
(Start: 162 @5072 has 386 MA's), (213, 5153), (273, 5339), (306, 5465), (385, 5717),

Gene: Jabith_8 Start: 5410, Stop: 6072, Start Num: 162
Candidate Starts for Jabith_8:
(Start: 162 @5410 has 386 MA's), (Start: 204 @5476 has 1 MA's), (242, 5551), (268, 5662), (351, 5902), (362, 5947),

Gene: Jace_24 Start: 20590, Stop: 21267, Start Num: 171
Candidate Starts for Jace_24:
(Start: 171 @20590 has 1 MA's), (176, 20599), (186, 20623), (201, 20644), (247, 20767), (275, 20878), (277, 20884), (310, 21013),

Gene: Jalebi_32 Start: 30054, Stop: 31103, Start Num: 20
Candidate Starts for Jalebi_32:
(Start: 20 @30054 has 31 MA's), (48, 30168), (56, 30189), (84, 30264), (93, 30279), (117, 30342), (140, 30402), (199, 30504), (Start: 229 @30567 has 1 MA's), (276, 30738), (354, 30966),

Gene: Jamemuya19_30 Start: 27111, Stop: 28208, Start Num: 15
Candidate Starts for Jamemuya19_30:
(Start: 15 @27111 has 11 MA's), (41, 27225), (70, 27318), (82, 27351), (85, 27354), (87, 27357), (96, 27378), (101, 27390), (120, 27438), (145, 27501), (181, 27555), (240, 27651), (249, 27693), (308, 27927), (325, 27966), (353, 28053), (388, 28200),

Gene: Jams_30 Start: 37556, Stop: 38458, Start Num: 47
Candidate Starts for Jams_30:
(Start: 47 @37556 has 35 MA's), (103, 37694), (128, 37763), (154, 37811), (194, 37874), (226, 37910), (271, 38078), (361, 38330), (383, 38435),

Gene: Jaykayelowell_5 Start: 2721, Stop: 3383, Start Num: 162
Candidate Starts for Jaykayelowell_5:
(Start: 162 @2721 has 386 MA's), (Start: 229 @2826 has 1 MA's), (319, 3138), (321, 3141), (385, 3366),

Gene: Jeeves_32 Start: 23861, Stop: 24529, Start Num: 159
Candidate Starts for Jeeves_32:
(122, 23789), (Start: 159 @23861 has 11 MA's), (250, 24044), (279, 24152), (282, 24164), (308, 24272), (383, 24509),

Gene: Jeffabunny_8 Start: 4661, Stop: 5359, Start Num: 142
Candidate Starts for Jeffabunny_8:
(Start: 142 @4661 has 48 MA's), (337, 5165), (385, 5351),

Gene: Jellybones_33 Start: 37898, Stop: 38800, Start Num: 47
Candidate Starts for Jellybones_33:
(Start: 47 @37898 has 35 MA's), (114, 38066), (128, 38102), (138, 38117), (147, 38132), (154, 38144), (226, 38243), (251, 38324), (264, 38378), (341, 38615), (377, 38741), (385, 38783),

Gene: JenCasNa_5 Start: 2629, Stop: 3264, Start Num: 162
Candidate Starts for JenCasNa_5:
(Start: 162 @2629 has 386 MA's), (257, 2842),

Gene: JeppNRM_6 Start: 2888, Stop: 3535, Start Num: 162
Candidate Starts for JeppNRM_6:
(Start: 162 @2888 has 386 MA's), (231, 2996), (252, 3071), (257, 3104),

Gene: JetBlade_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for JetBlade_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: JewelBug_8 Start: 4662, Stop: 5360, Start Num: 142
Candidate Starts for JewelBug_8:
(Start: 142 @4662 has 48 MA's), (337, 5166), (385, 5352),

Gene: Jiawan_7 Start: 5230, Stop: 5901, Start Num: 162
Candidate Starts for Jiawan_7:
(Start: 162 @5230 has 386 MA's), (250, 5404), (257, 5440), (321, 5653), (370, 5824),

Gene: Jobu08_5 Start: 2962, Stop: 3621, Start Num: 162
Candidate Starts for Jobu08_5:
(Start: 162 @2962 has 386 MA's), (217, 3049), (240, 3091), (252, 3145), (259, 3184), (273, 3229),

Gene: John316_33 Start: 37851, Stop: 38753, Start Num: 47
Candidate Starts for John316_33:
(Start: 47 @37851 has 35 MA's), (103, 37986), (114, 38019), (128, 38055), (138, 38070), (147, 38085), (154, 38097), (226, 38196), (251, 38277), (264, 38331), (341, 38568), (377, 38694), (385, 38736),

Gene: JoongJeon_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for JoongJeon_5:
(Start: 162 @2722 has 386 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Jordennis_8 Start: 4661, Stop: 5359, Start Num: 142
Candidate Starts for Jordennis_8:
(Start: 142 @4661 has 48 MA's), (337, 5165), (385, 5351),

Gene: Jormungandr_30 Start: 38100, Stop: 39002, Start Num: 47
Candidate Starts for Jormungandr_30:
(Start: 47 @38100 has 35 MA's), (103, 38238), (128, 38307), (154, 38355), (194, 38418), (226, 38454), (271, 38622), (357, 38856), (361, 38874), (383, 38979),

Gene: Joselito_8 Start: 5410, Stop: 6072, Start Num: 162
Candidate Starts for Joselito_8:
(Start: 162 @5410 has 386 MA's), (Start: 204 @5476 has 1 MA's), (242, 5551), (268, 5662), (351, 5902),

Gene: Journey13_30 Start: 23737, Stop: 24387, Start Num: 159
Candidate Starts for Journey13_30:
(Start: 159 @23737 has 11 MA's), (180, 23773), (250, 23914), (275, 24010), (282, 24034), (290, 24055), (292, 24061), (354, 24235), (360, 24259),

Gene: Jovo_5 Start: 3729, Stop: 4376, Start Num: 174
Candidate Starts for Jovo_5:
(Start: 162 @3711 has 386 MA's), (Start: 174 @3729 has 5 MA's), (Start: 204 @3777 has 1 MA's), (217, 3798), (252, 3894),

Gene: Jsquared_31 Start: 23470, Stop: 24069, Start Num: 191
Candidate Starts for Jsquared_31:
(Start: 191 @23470 has 3 MA's), (210, 23503), (231, 23521), (250, 23590), (270, 23674), (282, 23710), (314, 23827), (373, 23998),

Gene: Jumbo_25 Start: 36377, Stop: 37471, Start Num: 16
Candidate Starts for Jumbo_25:

(Start: 16 @36377 has 1 MA's), (37, 36485), (74, 36602), (111, 36689), (Start: 204 @36851 has 1 MA's), (246, 36944), (250, 36965), (272, 37052), (353, 37319),

Gene: Jung_22 Start: 21225, Stop: 22292, Start Num: 21
Candidate Starts for Jung_22:
(Start: 17 @21201 has 4 MA's), (Start: 19 @21222 has 4 MA's), (Start: 21 @21225 has 70 MA's), (26, 21249), (62, 21381), (64, 21387), (78, 21429), (109, 21495), (110, 21498), (134, 21558), (Start: 159 @21603 has 11 MA's), (185, 21648), (Start: 229 @21729 has 1 MA's), (246, 21786), (251, 21810), (259, 21852), (297, 21981), (303, 22002),

Gene: Junimo_4 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Junimo_4:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: KADY_6 Start: 2720, Stop: 3352, Start Num: 162
Candidate Starts for KADY_6:
(Start: 162 @2720 has 386 MA's), (252, 2903), (253, 2906), (257, 2933),

Gene: KFPoly_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for KFPoly_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Kachowdy_5 Start: 2913, Stop: 3563, Start Num: 162
Candidate Starts for Kachowdy_5:
(Start: 162 @2913 has 386 MA's), (252, 3096), (303, 3288), (345, 3408),

Gene: Kalb97_6 Start: 2886, Stop: 3536, Start Num: 162
Candidate Starts for Kalb97_6:
(Start: 162 @2886 has 386 MA's), (231, 2994), (252, 3069), (303, 3261),

Gene: Kalnoky_6 Start: 2888, Stop: 3538, Start Num: 162
Candidate Starts for Kalnoky_6:
(Start: 162 @2888 has 386 MA's), (231, 2996), (252, 3071), (303, 3263),

Gene: Kalpine_8 Start: 5367, Stop: 6047, Start Num: 162
Candidate Starts for Kalpine_8:
(Start: 162 @5367 has 386 MA's), (251, 5547), (362, 5910),

Gene: Kampy_5 Start: 2723, Stop: 3385, Start Num: 162
Candidate Starts for Kampy_5:
(Start: 162 @2723 has 386 MA's), (Start: 229 @2828 has 1 MA's), (319, 3140), (321, 3143), (385, 3368),

Gene: Kaseim_30 Start: 37541, Stop: 38443, Start Num: 47
Candidate Starts for Kaseim_30:
(Start: 47 @37541 has 35 MA's), (103, 37679), (128, 37748), (154, 37796), (194, 37859), (226, 37895), (271, 38063), (361, 38315), (383, 38420),

Gene: Katalie136_5 Start: 2733, Stop: 3395, Start Num: 162
Candidate Starts for Katalie136_5:
(Start: 162 @2733 has 386 MA's), (Start: 229 @2838 has 1 MA's), (321, 3153),

Gene: Kazan_8 Start: 4661, Stop: 5365, Start Num: 142
Candidate Starts for Kazan_8:
(Start: 142 @4661 has 48 MA's), (337, 5171), (385, 5357),

Gene: KekoraPapaka_4 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for KekoraPapaka_4:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Kerberos_35 Start: 24412, Stop: 25083, Start Num: 162
Candidate Starts for Kerberos_35:
(Start: 162 @24412 has 386 MA's), (217, 24502), (231, 24523), (250, 24592), (257, 24628), (270, 24676), (347, 24916), (349, 24919), (375, 25018), (379, 25033),

Gene: Kimba_8 Start: 5410, Stop: 6072, Start Num: 162
Candidate Starts for Kimba_8:
(Start: 162 @5410 has 386 MA's), (Start: 204 @5476 has 1 MA's), (242, 5551), (268, 5662), (351, 5902), (362, 5947),

Gene: KingCyrus_34 Start: 25662, Stop: 26561, Start Num: 54
Candidate Starts for KingCyrus_34:
(Start: 54 @25662 has 2 MA's), (97, 25773), (136, 25875), (147, 25896), (186, 25959), (250, 26091), (337, 26373),

Gene: Kingmustik0402_5 Start: 2714, Stop: 3376, Start Num: 162
Candidate Starts for Kingmustik0402_5:
(Start: 162 @2714 has 386 MA's), (Start: 229 @2819 has 1 MA's), (319, 3131), (321, 3134), (385, 3359),

Gene: Kinmap_33 Start: 24255, Stop: 24890, Start Num: 159
Candidate Starts for Kinmap_33:
(Start: 159 @24255 has 11 MA's), (314, 24669), (336, 24723),

Gene: Kipper29_8 Start: 4661, Stop: 5359, Start Num: 142
Candidate Starts for Kipper29_8:
(Start: 142 @4661 has 48 MA's), (337, 5165), (385, 5351),

Gene: KleverKiS_31 Start: 26972, Stop: 28027, Start Num: 21
Candidate Starts for KleverKiS_31:
(Start: 21 @26972 has 70 MA's), (86, 27185), (103, 27221), (127, 27284), (Start: 169 @27356 has 10 MA's), (185, 27386), (198, 27407), (218, 27443), (234, 27479), (246, 27527), (250, 27548), (252, 27554), (256, 27584), (257, 27587), (271, 27635), (341, 27845), (361, 27899),

Gene: Klodlith_32 Start: 23986, Stop: 24633, Start Num: 162
Candidate Starts for Klodlith_32:
(Start: 162 @23986 has 386 MA's), (166, 23992), (183, 24025), (200, 24049), (221, 24085), (231, 24097), (250, 24166), (252, 24172), (253, 24175), (257, 24205), (279, 24274), (292, 24313),

Gene: Koan_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Koan_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Koduck_33 Start: 23582, Stop: 24238, Start Num: 162
Candidate Starts for Koduck_33:
(Start: 159 @23579 has 11 MA's), (Start: 162 @23582 has 386 MA's), (Start: 171 @23597 has 1 MA's), (231, 23696), (257, 23801), (282, 23885), (321, 24011), (329, 24041),

Gene: Koko_8 Start: 4661, Stop: 5359, Start Num: 142
Candidate Starts for Koko_8:
(Start: 142 @4661 has 48 MA's), (337, 5165), (385, 5351),

Gene: Koreni_5 Start: 2722, Stop: 3393, Start Num: 162
Candidate Starts for Koreni_5:
(Start: 162 @2722 has 386 MA's), (301, 3082),

Gene: Kratark_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Kratark_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Kratio_26 Start: 23714, Stop: 24778, Start Num: 21
Candidate Starts for Kratio_26:
(Start: 21 @23714 has 70 MA's), (43, 23804), (50, 23834), (71, 23894), (92, 23942), (108, 23981), (117, 23999), (156, 24083), (185, 24131), (195, 24149), (234, 24224), (251, 24290), (273, 24380), (274, 24383), (275, 24386), (287, 24419), (314, 24518), (315, 24521), (342, 24605), (344, 24617), (380, 24734),

Gene: Kremtemulon_5 Start: 2722, Stop: 3387, Start Num: 162
Candidate Starts for Kremtemulon_5:
(Start: 162 @2722 has 386 MA's), (213, 2803), (217, 2809), (273, 2989), (306, 3115),

Gene: Kristoff_6 Start: 3001, Stop: 3648, Start Num: 162
Candidate Starts for Kristoff_6:
(Start: 162 @3001 has 386 MA's), (231, 3109), (250, 3178), (273, 3268), (299, 3361),

Gene: Kyee_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Kyee_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: L5_32 Start: 23536, Stop: 24198, Start Num: 162
Candidate Starts for L5_32:
(Start: 162 @23536 has 386 MA's), (Start: 171 @23551 has 1 MA's), (200, 23608), (231, 23656), (257, 23761), (282, 23845), (321, 23971), (329, 24001),

Gene: LBerry_5 Start: 2629, Stop: 3264, Start Num: 162
Candidate Starts for LBerry_5:
(Start: 162 @2629 has 386 MA's), (257, 2842),

Gene: LHTSCC_5 Start: 2722, Stop: 3387, Start Num: 162
Candidate Starts for LHTSCC_5:
(Start: 162 @2722 has 386 MA's), (250, 2899), (273, 2989), (306, 3115),

Gene: Labelle_37 Start: 32043, Stop: 33083, Start Num: 17

Candidate Starts for Labelle_37:
(Start: 17 @32043 has 4 MA's), (33, 32121), (53, 32199), (139, 32412), (Start: 141 @32418 has 3 MA's), (192, 32496), (246, 32589), (252, 32616),

Gene: Lahirium_30 Start: 38622, Stop: 39524, Start Num: 47
Candidate Starts for Lahirium_30:
(Start: 47 @38622 has 35 MA's), (103, 38760), (128, 38829), (154, 38877), (194, 38940), (226, 38976), (271, 39144), (357, 39378), (361, 39396), (383, 39501),

Gene: Lambert1_5 Start: 2764, Stop: 3423, Start Num: 162
Candidate Starts for Lambert1_5:
(Start: 162 @2764 has 386 MA's), (176, 2785), (217, 2851), (250, 2941), (257, 2977), (332, 3223), (363, 3310),

Gene: Lambo_33 Start: 29541, Stop: 30587, Start Num: 20
Candidate Starts for Lambo_33:
(Start: 20 @29541 has 31 MA's), (48, 29655), (56, 29676), (84, 29751), (93, 29766), (183, 29964), (218, 30030), (224, 30042), (246, 30111), (286, 30252),

Gene: Landor_8 Start: 5074, Stop: 5736, Start Num: 162
Candidate Starts for Landor_8:
(Start: 162 @5074 has 386 MA's), (213, 5155), (Start: 229 @5179 has 1 MA's), (273, 5335), (306, 5461), (321, 5488),

Gene: LappelDuVide_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for LappelDuVide_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: LarryKay_5 Start: 2720, Stop: 3352, Start Num: 162
Candidate Starts for LarryKay_5:
(Start: 162 @2720 has 386 MA's), (252, 2903), (253, 2906), (257, 2933),

Gene: Larva_28 Start: 23878, Stop: 24942, Start Num: 21
Candidate Starts for Larva_28:
(Start: 21 @23878 has 70 MA's), (43, 23968), (50, 23998), (68, 24052), (71, 24058), (92, 24106), (108, 24145), (117, 24163), (118, 24166), (156, 24247), (185, 24295), (195, 24313), (251, 24454), (273, 24544), (274, 24547), (275, 24550), (287, 24583), (290, 24595), (314, 24682), (315, 24685), (344, 24781), (380, 24898),

Gene: LastResort_8 Start: 4403, Stop: 5071, Start Num: 169
Candidate Starts for LastResort_8:
(Start: 169 @4403 has 10 MA's), (266, 4643), (285, 4709), (323, 4835),

Gene: LavAbarElk_31 Start: 27993, Stop: 29042, Start Num: 20
Candidate Starts for LavAbarElk_31:
(Start: 20 @27993 has 31 MA's), (48, 28107), (56, 28128), (84, 28203), (93, 28218), (117, 28281), (140, 28341), (199, 28443), (Start: 229 @28506 has 1 MA's), (276, 28677), (319, 28812), (354, 28905),

Gene: Lemur_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Lemur_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: LeoAvram_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for LeoAvram_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Leogania_8 Start: 5401, Stop: 6051, Start Num: 162
Candidate Starts for Leogania_8:
(Start: 162 @5401 has 386 MA's), (207, 5473), (250, 5578), (260, 5626), (357, 5917),

Gene: Leston_27 Start: 24063, Stop: 25130, Start Num: 21
Candidate Starts for Leston_27:
(Start: 21 @24063 has 70 MA's), (48, 24180), (68, 24237), (90, 24285), (92, 24291), (117, 24348), (118, 24351), (123, 24366), (134, 24393), (156, 24432), (Start: 159 @24435 has 11 MA's), (168, 24447), (Start: 169 @24450 has 10 MA's), (Start: 171 @24453 has 1 MA's), (Start: 178 @24468 has 2 MA's), (Start: 204 @24513 has 1 MA's), (207, 24519), (234, 24573), (246, 24621), (253, 24651), (263, 24696), (298, 24825), (317, 24879),

Gene: Lidong_30 Start: 38356, Stop: 39258, Start Num: 47
Candidate Starts for Lidong_30:
(Start: 47 @38356 has 35 MA's), (103, 38494), (128, 38563), (154, 38611), (194, 38674), (226, 38710), (271, 38878), (361, 39130), (383, 39235),

Gene: LilDirt_26 Start: 23840, Stop: 24904, Start Num: 21
Candidate Starts for LilDirt_26:
(Start: 21 @23840 has 70 MA's), (43, 23930), (48, 23957), (71, 24020), (92, 24068), (108, 24107), (117, 24125), (134, 24170), (156, 24209), (185, 24257), (195, 24275), (234, 24350), (251, 24416), (273, 24506), (274, 24509), (275, 24512), (287, 24545), (314, 24644), (315, 24647), (342, 24731), (344, 24743), (380, 24860),

Gene: Lila22_32 Start: 29496, Stop: 30542, Start Num: 20
Candidate Starts for Lila22_32:
(Start: 20 @29496 has 31 MA's), (48, 29610), (56, 29631), (84, 29706), (93, 29721), (117, 29784), (199, 29946), (286, 30207),

Gene: Lilbunny_8 Start: 4661, Stop: 5359, Start Num: 142
Candidate Starts for Lilbunny_8:
(Start: 142 @4661 has 48 MA's), (337, 5165), (385, 5351),

Gene: LilhomieP_30 Start: 26992, Stop: 28047, Start Num: 21
Candidate Starts for LilhomieP_30:
(Start: 21 @26992 has 70 MA's), (86, 27205), (103, 27241), (127, 27304), (Start: 169 @27376 has 10 MA's), (185, 27406), (198, 27427), (218, 27463), (234, 27499), (246, 27547), (250, 27568), (252, 27574), (256, 27604), (257, 27607), (271, 27655), (333, 27844), (341, 27865), (361, 27919),

Gene: Lilith_5 Start: 2891, Stop: 3550, Start Num: 162
Candidate Starts for Lilith_5:
(Start: 162 @2891 has 386 MA's), (252, 3074), (257, 3107), (279, 3176), (383, 3530),

Gene: Lilleskat_6 Start: 5239, Stop: 5868, Start Num: 162
Candidate Starts for Lilleskat_6:
(Start: 162 @5239 has 386 MA's), (184, 5278), (252, 5419), (257, 5449), (262, 5464),

Gene: LionsBait_8 Start: 5306, Stop: 5974, Start Num: 162
Candidate Starts for LionsBait_8:
(Start: 162 @5306 has 386 MA's), (257, 5516), (292, 5627), (307, 5705), (339, 5774),

Gene: LittleB_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for LittleB_5:
(Start: 162 @2722 has 386 MA's), (190, 2773), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: LittleCherry_5 Start: 3604, Stop: 4266, Start Num: 162
Candidate Starts for LittleCherry_5:
(Start: 162 @3604 has 386 MA's), (170, 3616), (182, 3640), (190, 3655), (Start: 204 @3670 has 1 MA's), (242, 3745), (275, 3874), (351, 4096),

Gene: LittleGuy_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for LittleGuy_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (321, 3142), (385, 3367),

Gene: LochMonster_5 Start: 2720, Stop: 3385, Start Num: 162
Candidate Starts for LochMonster_5:
(Start: 162 @2720 has 386 MA's), (213, 2801), (217, 2807), (273, 2987), (306, 3113),

Gene: Lokk_9 Start: 5386, Stop: 6063, Start Num: 162
Candidate Starts for Lokk_9:
(Start: 162 @5386 has 386 MA's), (182, 5422), (251, 5566), (276, 5662), (292, 5710), (321, 5800), (328, 5827),

Gene: LoneWolf_8 Start: 4997, Stop: 5665, Start Num: 162
Candidate Starts for LoneWolf_8:
(Start: 162 @4997 has 386 MA's), (251, 5171), (257, 5204), (305, 5387), (361, 5528), (370, 5588),

Gene: LongHai_26 Start: 22028, Stop: 23053, Start Num: 13
Candidate Starts for LongHai_26:
(Start: 13 @22028 has 2 MA's), (33, 22118), (111, 22337), (113, 22340), (120, 22352), (192, 22484), (219, 22520), (246, 22571), (258, 22628), (335, 22865), (373, 22991),

Gene: Lorenzo_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Lorenzo_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Loser_8 Start: 5253, Stop: 5897, Start Num: 162
Candidate Starts for Loser_8:
(Start: 162 @5253 has 386 MA's), (251, 5433), (262, 5484),

Gene: Louie6_5 Start: 2720, Stop: 3352, Start Num: 162
Candidate Starts for Louie6_5:
(Start: 162 @2720 has 386 MA's), (252, 2903), (253, 2906), (257, 2933), (370, 3287),

Gene: Lowa_5 Start: 2890, Stop: 3549, Start Num: 162
Candidate Starts for Lowa_5:
(Start: 162 @2890 has 386 MA's), (252, 3073), (257, 3106), (279, 3175), (383, 3529),

Gene: Lucivia_8 Start: 5407, Stop: 6069, Start Num: 162
Candidate Starts for Lucivia_8:
(Start: 162 @5407 has 386 MA's), (Start: 204 @5473 has 1 MA's), (242, 5548), (268, 5659), (351, 5899), (362, 5944),

Gene: LuckyLeo_32 Start: 28919, Stop: 29908, Start Num: 34
Candidate Starts for LuckyLeo_32:
(Start: 20 @28862 has 31 MA's), (Start: 34 @28919 has 1 MA's), (59, 29009), (62, 29018), (64, 29024), (68, 29033), (93, 29087), (183, 29285), (218, 29351), (224, 29363), (246, 29432), (286, 29573), (319, 29681),

Gene: Lucyedi_8 Start: 4875, Stop: 5543, Start Num: 149
Candidate Starts for Lucyedi_8:
(Start: 149 @4875 has 3 MA's), (194, 4932), (219, 4968), (282, 5169), (351, 5391),

Gene: LugYA_7 Start: 2629, Stop: 3264, Start Num: 162
Candidate Starts for LugYA_7:
(Start: 162 @2629 has 386 MA's), (257, 2842),

Gene: Luker_31 Start: 38575, Stop: 39477, Start Num: 47
Candidate Starts for Luker_31:
(Start: 47 @38575 has 35 MA's), (103, 38713), (128, 38782), (154, 38830), (194, 38893), (226, 38929), (271, 39097), (357, 39331), (361, 39349), (383, 39454),

Gene: Lunsford_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Lunsford_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: MA5_5 Start: 2468, Stop: 3118, Start Num: 162
Candidate Starts for MA5_5:
(Start: 162 @2468 has 386 MA's), (252, 2651), (303, 2843),

Gene: MK4_5 Start: 2748, Stop: 3383, Start Num: 162
Candidate Starts for MK4_5:
(Start: 162 @2748 has 386 MA's), (252, 2931), (257, 2961), (280, 3039), (292, 3072),

Gene: MaCh_8 Start: 5407, Stop: 6069, Start Num: 162
Candidate Starts for MaCh_8:
(Start: 162 @5407 has 386 MA's), (Start: 204 @5473 has 1 MA's), (242, 5548), (268, 5659), (351, 5899),

Gene: Mabel_8 Start: 5422, Stop: 6084, Start Num: 162
Candidate Starts for Mabel_8:
(Start: 162 @5422 has 386 MA's), (Start: 204 @5488 has 1 MA's), (242, 5563), (268, 5674), (351, 5914), (362, 5959),

Gene: Maco6_23 Start: 20985, Stop: 22013, Start Num: 13
Candidate Starts for Maco6_23:
(Start: 13 @20985 has 2 MA's), (33, 21075), (53, 21144), (55, 21153), (85, 21231), (111, 21294), (113, 21297), (192, 21441), (219, 21477), (246, 21528), (258, 21585), (335, 21825), (373, 21951),

Gene: Madruga_36 Start: 31712, Stop: 32752, Start Num: 17

Candidate Starts for Madruga_36:
(Start: 17 @31712 has 4 MA's), (33, 31790), (53, 31868), (139, 32081), (Start: 141 @32087 has 3 MA's), (192, 32165), (246, 32258), (252, 32285),

Gene: MajorMajor_31 Start: 23397, Stop: 23996, Start Num: 191
Candidate Starts for MajorMajor_31:
(Start: 191 @23397 has 3 MA's), (210, 23430), (231, 23448), (250, 23517), (270, 23601), (282, 23637), (314, 23754), (373, 23925),

Gene: MakCheese_24 Start: 21714, Stop: 22658, Start Num: 44
Candidate Starts for MakCheese_24:
(Start: 21 @21606 has 70 MA's), (44, 21714), (100, 21855), (126, 21927), (140, 21960), (234, 22134), (244, 22173), (246, 22182), (279, 22305), (290, 22338), (307, 22410), (327, 22458), (328, 22461), (354, 22524),

Gene: MalagasyRose_28 Start: 22698, Stop: 23777, Start Num: 21
Candidate Starts for MalagasyRose_28:
(Start: 21 @22698 has 70 MA's), (25, 22719), (Start: 47 @22812 has 35 MA's), (60, 22854), (62, 22857), (68, 22872), (92, 22926), (103, 22947), (108, 22965), (134, 23028), (143, 23049), (Start: 171 @23088 has 1 MA's), (185, 23115), (195, 23133), (234, 23211), (239, 23229), (292, 23424), (304, 23484), (347, 23607),

Gene: Malec_33 Start: 25107, Stop: 25760, Start Num: 159
Candidate Starts for Malec_33:
(122, 25035), (Start: 159 @25107 has 11 MA's), (182, 25149), (257, 25326), (275, 25386), (276, 25389), (282, 25410), (293, 25443), (314, 25527), (359, 25641), (375, 25707),

Gene: Malinsilva_7 Start: 2890, Stop: 3549, Start Num: 162
Candidate Starts for Malinsilva_7:
(Start: 162 @2890 has 386 MA's), (252, 3073), (257, 3106), (279, 3175), (383, 3529),

Gene: Maminiaina_8 Start: 4988, Stop: 5638, Start Num: 162
Candidate Starts for Maminiaina_8:
(Start: 162 @4988 has 386 MA's), (251, 5165), (257, 5198), (313, 5402), (355, 5498),

Gene: Manilisa_32 Start: 27398, Stop: 28474, Start Num: 21
Candidate Starts for Manilisa_32:
(Start: 21 @27398 has 70 MA's), (50, 27515), (59, 27545), (84, 27608), (114, 27683), (117, 27686), (146, 27755), (153, 27767), (Start: 204 @27860 has 1 MA's), (246, 27962), (249, 27977), (261, 28034),

Gene: Manu_6 Start: 2888, Stop: 3538, Start Num: 162
Candidate Starts for Manu_6:
(Start: 162 @2888 has 386 MA's), (231, 2996), (252, 3071), (303, 3263),

Gene: MarQuardt_5 Start: 2899, Stop: 3558, Start Num: 162
Candidate Starts for MarQuardt_5:
(Start: 162 @2899 has 386 MA's), (252, 3082), (257, 3115), (279, 3184), (383, 3538),

Gene: Marchesa_5 Start: 2913, Stop: 3563, Start Num: 162
Candidate Starts for Marchesa_5:
(Start: 162 @2913 has 386 MA's), (252, 3096), (303, 3288), (345, 3408),

Gene: Margo_5 Start: 2764, Stop: 3441, Start Num: 162

Candidate Starts for Margo_5:
(Start: 162 @2764 has 386 MA's), (250, 2941), (257, 2977), (291, 3085), (370, 3364),

Gene: Marie_5 Start: 2629, Stop: 3264, Start Num: 162
Candidate Starts for Marie_5:
(Start: 162 @2629 has 386 MA's), (257, 2842),

Gene: Marietta_47 Start: 33564, Stop: 34148, Start Num: 229
Candidate Starts for Marietta_47:
(Start: 229 @33564 has 1 MA's), (234, 33573), (250, 33642), (251, 33645), (270, 33729), (289, 33780), (321, 33882), (348, 33966), (354, 33975), (355, 33978),

Gene: Marius_6 Start: 2888, Stop: 3538, Start Num: 162
Candidate Starts for Marius_6:
(Start: 162 @2888 has 386 MA's), (231, 2996), (252, 3071), (303, 3263),

Gene: MarysWell_4 Start: 3572, Stop: 4234, Start Num: 162
Candidate Starts for MarysWell_4:
(Start: 162 @3572 has 386 MA's), (182, 3608), (190, 3623), (Start: 204 @3638 has 1 MA's), (242, 3713), (275, 3842), (351, 4064),

Gene: Maverick_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Maverick_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Maxo_5 Start: 2723, Stop: 3385, Start Num: 162
Candidate Starts for Maxo_5:
(Start: 162 @2723 has 386 MA's), (Start: 229 @2828 has 1 MA's), (319, 3140), (321, 3143), (385, 3368),

Gene: Mayonnaise_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Mayonnaise_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Mazhar510_5 Start: 2723, Stop: 3385, Start Num: 162
Candidate Starts for Mazhar510_5:
(Start: 162 @2723 has 386 MA's), (Start: 229 @2828 has 1 MA's), (319, 3140), (321, 3143), (385, 3368),

Gene: McFly_8 Start: 4661, Stop: 5359, Start Num: 142
Candidate Starts for McFly_8:
(Start: 142 @4661 has 48 MA's), (337, 5165), (385, 5351),

Gene: Medusa_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Medusa_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: MeeZee_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for MeeZee_5:

(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: MegTheThird_32 Start: 24063, Stop: 24701, Start Num: 159
Candidate Starts for MegTheThird_32:
(46, 23796), (Start: 159 @24063 has 11 MA's), (182, 24099), (250, 24240), (314, 24474), (383, 24681),

Gene: Melvin_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Melvin_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Methuselah_5 Start: 2720, Stop: 3352, Start Num: 162
Candidate Starts for Methuselah_5:
(Start: 162 @2720 has 386 MA's), (252, 2903), (253, 2906), (257, 2933),

Gene: Meyran_29 Start: 27126, Stop: 28187, Start Num: 27
Candidate Starts for Meyran_29:
(Start: 20 @27099 has 31 MA's), (Start: 27 @27126 has 1 MA's), (84, 27309), (146, 27456), (Start: 204 @27561 has 1 MA's), (240, 27642), (246, 27669), (249, 27684), (261, 27747), (279, 27807), (361, 28044),

Gene: Micasa_5 Start: 3572, Stop: 4234, Start Num: 162
Candidate Starts for Micasa_5:
(Start: 162 @3572 has 386 MA's), (170, 3584), (182, 3608), (190, 3623), (Start: 204 @3638 has 1 MA's), (242, 3713), (275, 3842), (351, 4064),

Gene: Microwolf_5 Start: 2899, Stop: 3558, Start Num: 162
Candidate Starts for Microwolf_5:
(Start: 162 @2899 has 386 MA's), (252, 3082), (257, 3115), (279, 3184), (383, 3538),

Gene: Midas2_5 Start: 3571, Stop: 4233, Start Num: 162
Candidate Starts for Midas2_5:
(Start: 162 @3571 has 386 MA's), (170, 3583), (182, 3607), (190, 3622), (Start: 204 @3637 has 1 MA's), (242, 3712), (275, 3841), (351, 4063),

Gene: Miko_9 Start: 5364, Stop: 6041, Start Num: 162
Candidate Starts for Miko_9:
(Start: 162 @5364 has 386 MA's), (182, 5400), (251, 5544), (276, 5640), (321, 5778), (328, 5805),

Gene: Milcery_5 Start: 3602, Stop: 4264, Start Num: 162
Candidate Starts for Milcery_5:
(Start: 162 @3602 has 386 MA's), (170, 3614), (182, 3638), (190, 3653), (Start: 204 @3668 has 1 MA's), (242, 3743), (275, 3872), (351, 4094),

Gene: Millski_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Millski_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Mima20_31 Start: 29243, Stop: 30292, Start Num: 20
Candidate Starts for Mima20_31:

(Start: 20 @29243 has 31 MA's), (38, 29318), (48, 29357), (56, 29378), (84, 29453), (93, 29468), (117, 29531), (140, 29591), (199, 29693), (276, 29927), (319, 30062), (354, 30155),

Gene: Minispark_30 Start: 23978, Stop: 24619, Start Num: 159
Candidate Starts for Minispark_30:
(122, 23906), (Start: 159 @23978 has 11 MA's), (240, 24113), (250, 24161), (314, 24392), (383, 24599),

Gene: Minos_31 Start: 38098, Stop: 39000, Start Num: 47
Candidate Starts for Minos_31:
(Start: 47 @38098 has 35 MA's), (103, 38236), (128, 38305), (154, 38353), (194, 38416), (226, 38452), (271, 38620), (361, 38872), (383, 38977),

Gene: Miramae_5 Start: 2718, Stop: 3383, Start Num: 162
Candidate Starts for Miramae_5:
(Start: 162 @2718 has 386 MA's), (213, 2799), (273, 2985), (306, 3111),

Gene: Miryou_27 Start: 23918, Stop: 24985, Start Num: 21
Candidate Starts for Miryou_27:
(Start: 21 @23918 has 70 MA's), (48, 24035), (68, 24092), (90, 24140), (92, 24146), (117, 24203), (118, 24206), (123, 24221), (134, 24248), (156, 24287), (Start: 159 @24290 has 11 MA's), (168, 24302), (Start: 169 @24305 has 10 MA's), (Start: 171 @24308 has 1 MA's), (Start: 178 @24323 has 2 MA's), (Start: 204 @24368 has 1 MA's), (207, 24374), (234, 24428), (246, 24476), (253, 24506), (263, 24551), (298, 24680), (317, 24734),

Gene: Misomonster_7 Start: 2719, Stop: 3351, Start Num: 162
Candidate Starts for Misomonster_7:
(Start: 162 @2719 has 386 MA's), (252, 2902), (253, 2905), (257, 2932),

Gene: MissWhite_32 Start: 23704, Stop: 24357, Start Num: 159
Candidate Starts for MissWhite_32:
(Start: 159 @23704 has 11 MA's), (231, 23818), (250, 23887), (255, 23917), (257, 23923), (292, 24031), (336, 24172), (363, 24244),

Gene: ModicumRichard_26 Start: 23920, Stop: 24630, Start Num: 151
Candidate Starts for ModicumRichard_26:
(14, 23503), (81, 23758), (Start: 151 @23920 has 5 MA's), (Start: 162 @23935 has 386 MA's), (Start: 171 @23950 has 1 MA's), (266, 24202), (323, 24394),

Gene: MoiGyank_35 Start: 29924, Stop: 30973, Start Num: 20
Candidate Starts for MoiGyank_35:
(Start: 20 @29924 has 31 MA's), (38, 29999), (48, 30038), (56, 30059), (84, 30134), (93, 30149), (117, 30212), (140, 30272), (199, 30374), (Start: 229 @30437 has 1 MA's), (276, 30608), (354, 30836),

Gene: MoneyMay_5 Start: 2629, Stop: 3264, Start Num: 162
Candidate Starts for MoneyMay_5:
(Start: 162 @2629 has 386 MA's), (257, 2842),

Gene: Montavir_4 Start: 2629, Stop: 3264, Start Num: 162
Candidate Starts for Montavir_4:
(Start: 162 @2629 has 386 MA's), (257, 2842),

Gene: Morpher26_5 Start: 2733, Stop: 3395, Start Num: 162

Candidate Starts for Morpher26_5:
(Start: 162 @2733 has 386 MA's), (Start: 229 @2838 has 1 MA's), (321, 3153),

Gene: Morrow_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Morrow_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: MrWormie_30 Start: 37259, Stop: 38161, Start Num: 47
Candidate Starts for MrWormie_30:
(Start: 47 @37259 has 35 MA's), (103, 37397), (128, 37466), (154, 37514), (194, 37577), (226, 37613), (271, 37781), (361, 38033), (383, 38138),

Gene: Msay19_34 Start: 38032, Stop: 38934, Start Num: 47
Candidate Starts for Msay19_34:
(Start: 47 @38032 has 35 MA's), (91, 38137), (103, 38167), (112, 38197), (119, 38209), (Start: 169 @38293 has 10 MA's), (194, 38341), (226, 38377), (251, 38458), (264, 38512), (291, 38602), (341, 38749), (385, 38917),

Gene: MuchMore_7 Start: 2890, Stop: 3549, Start Num: 162
Candidate Starts for MuchMore_7:
(Start: 162 @2890 has 386 MA's), (252, 3073), (256, 3103), (257, 3106), (279, 3175), (383, 3529),

Gene: Muddy_25 Start: 21935, Stop: 22960, Start Num: 13
Candidate Starts for Muddy_25:
(Start: 13 @21935 has 2 MA's), (33, 22025), (85, 22181), (111, 22244), (113, 22247), (192, 22391), (219, 22427), (246, 22478), (258, 22535), (321, 22733), (335, 22772), (373, 22898),

Gene: Mulch_27 Start: 23315, Stop: 24382, Start Num: 22
Candidate Starts for Mulch_27:
(Start: 22 @23315 has 14 MA's), (92, 23525), (175, 23693), (240, 23834), (243, 23849), (246, 23861), (251, 23885), (270, 23969), (282, 24005), (315, 24116),

Gene: Mulciber_8 Start: 5413, Stop: 6075, Start Num: 162
Candidate Starts for Mulciber_8:
(Start: 162 @5413 has 386 MA's), (Start: 204 @5479 has 1 MA's), (242, 5554), (351, 5905), (362, 5950),

Gene: Munch_8 Start: 5410, Stop: 6072, Start Num: 162
Candidate Starts for Munch_8:
(Start: 162 @5410 has 386 MA's), (Start: 204 @5476 has 1 MA's), (242, 5551), (268, 5662), (351, 5902),

Gene: Mundrea_5 Start: 2713, Stop: 3378, Start Num: 162
Candidate Starts for Mundrea_5:
(Start: 162 @2713 has 386 MA's), (213, 2794), (217, 2800), (250, 2890), (273, 2980), (306, 3106),

Gene: MyraDee_5 Start: 2390, Stop: 3028, Start Num: 151
Candidate Starts for MyraDee_5:
(Start: 151 @2390 has 5 MA's), (216, 2477), (219, 2486), (275, 2666),

Gene: Myxus_8 Start: 5239, Stop: 5868, Start Num: 162
Candidate Starts for Myxus_8:

(Start: 162 @5239 has 386 MA's), (184, 5278), (252, 5419), (257, 5449), (262, 5464),

Gene: Nadeem_27 Start: 23315, Stop: 24382, Start Num: 22
Candidate Starts for Nadeem_27:
(Start: 22 @23315 has 14 MA's), (92, 23525), (175, 23693), (240, 23834), (243, 23849), (246, 23861), (251, 23885), (270, 23969), (315, 24116),

Gene: Naji_35 Start: 24412, Stop: 25083, Start Num: 162
Candidate Starts for Naji_35:
(Start: 162 @24412 has 386 MA's), (217, 24502), (231, 24523), (250, 24592), (257, 24628), (347, 24916), (349, 24919), (375, 25018), (379, 25033),

Gene: NancyRae_27 Start: 23321, Stop: 24388, Start Num: 22
Candidate Starts for NancyRae_27:
(Start: 22 @23321 has 14 MA's), (92, 23531), (175, 23699), (240, 23840), (243, 23855), (246, 23867), (251, 23891), (270, 23975), (282, 24011), (315, 24122),

Gene: Nazo_22 Start: 21497, Stop: 22546, Start Num: 21
Candidate Starts for Nazo_22:
(Start: 21 @21497 has 70 MA's), (25, 21518), (64, 21659), (75, 21689), (86, 21710), (114, 21773), (129, 21812), (220, 21971), (256, 22103), (288, 22199), (371, 22484),

Gene: NearlyHeadless_5 Start: 3362, Stop: 4021, Start Num: 173
Candidate Starts for NearlyHeadless_5:
(Start: 173 @3362 has 12 MA's), (209, 3419), (214, 3428), (Start: 229 @3461 has 1 MA's),

Gene: Nebs_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Nebs_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (328, 3169), (385, 3367),

Gene: Nebulosus_8 Start: 4403, Stop: 5071, Start Num: 169
Candidate Starts for Nebulosus_8:
(Start: 169 @4403 has 10 MA's), (266, 4643), (285, 4709), (323, 4835),

Gene: Neeharika16_8 Start: 4661, Stop: 5359, Start Num: 142
Candidate Starts for Neeharika16_8:
(Start: 142 @4661 has 48 MA's), (337, 5165), (385, 5351),

Gene: Neighly_28 Start: 23877, Stop: 24941, Start Num: 21
Candidate Starts for Neighly_28:
(Start: 21 @23877 has 70 MA's), (43, 23967), (50, 23997), (68, 24051), (71, 24057), (92, 24105), (108, 24144), (117, 24162), (118, 24165), (156, 24246), (185, 24294), (195, 24312), (251, 24453), (273, 24543), (274, 24546), (275, 24549), (287, 24582), (290, 24594), (314, 24681), (315, 24684), (344, 24780), (380, 24897),

Gene: Nemo27_5 Start: 2721, Stop: 3383, Start Num: 162
Candidate Starts for Nemo27_5:
(Start: 162 @2721 has 386 MA's), (Start: 229 @2826 has 1 MA's), (319, 3138), (321, 3141), (385, 3366),

Gene: Neoevie_30 Start: 38362, Stop: 39264, Start Num: 47
Candidate Starts for Neoevie_30:

(Start: 47 @38362 has 35 MA's), (103, 38500), (128, 38569), (154, 38617), (194, 38680), (226, 38716), (232, 38725), (271, 38884), (357, 39118), (361, 39136), (383, 39241),

Gene: Nettle_34 Start: 29778, Stop: 30827, Start Num: 20
Candidate Starts for Nettle_34:
(Start: 20 @29778 has 31 MA's), (38, 29853), (48, 29892), (56, 29913), (84, 29988), (93, 30003), (117, 30066), (140, 30126), (199, 30228), (276, 30462), (354, 30690),

Gene: Newrala_8 Start: 4661, Stop: 5359, Start Num: 142
Candidate Starts for Newrala_8:
(Start: 142 @4661 has 48 MA's), (337, 5165), (385, 5351),

Gene: Newt_31 Start: 38589, Stop: 39491, Start Num: 47
Candidate Starts for Newt_31:
(Start: 47 @38589 has 35 MA's), (103, 38727), (128, 38796), (154, 38844), (194, 38907), (226, 38943), (271, 39111), (361, 39363), (383, 39468),

Gene: NicoleTera_8 Start: 5250, Stop: 5927, Start Num: 163
Candidate Starts for NicoleTera_8:
(Start: 163 @5250 has 2 MA's), (Start: 179 @5280 has 1 MA's), (208, 5322), (250, 5427), (270, 5508), (291, 5568), (360, 5799),

Gene: Nimi13_30 Start: 38107, Stop: 39009, Start Num: 47
Candidate Starts for Nimi13_30:
(Start: 47 @38107 has 35 MA's), (103, 38245), (128, 38314), (154, 38362), (194, 38425), (226, 38461), (232, 38470), (271, 38629), (357, 38863), (361, 38881), (383, 38986),

Gene: Noella_5 Start: 2764, Stop: 3423, Start Num: 162
Candidate Starts for Noella_5:
(Start: 162 @2764 has 386 MA's), (176, 2785), (217, 2851), (250, 2941), (257, 2977), (332, 3223), (363, 3310),

Gene: Noelle_5 Start: 2787, Stop: 3449, Start Num: 162
Candidate Starts for Noelle_5:
(Start: 162 @2787 has 386 MA's), (Start: 229 @2892 has 1 MA's), (319, 3204), (321, 3207), (385, 3432),

Gene: NorManre_34 Start: 29125, Stop: 30174, Start Num: 20
Candidate Starts for NorManre_34:
(Start: 20 @29125 has 31 MA's), (38, 29200), (48, 29239), (56, 29260), (84, 29335), (93, 29350), (117, 29413), (Start: 229 @29638 has 1 MA's), (276, 29809), (354, 30037), (369, 30082),

Gene: Norbert_4 Start: 2764, Stop: 3423, Start Num: 162
Candidate Starts for Norbert_4:
(Start: 162 @2764 has 386 MA's), (176, 2785), (217, 2851), (250, 2941), (257, 2977), (332, 3223), (363, 3310),

Gene: NorthStar_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for NorthStar_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Northrop_5 Start: 2721, Stop: 3383, Start Num: 162

Candidate Starts for Northrop_5:
(Start: 162 @2721 has 386 MA's), (Start: 229 @2826 has 1 MA's), (319, 3138), (321, 3141), (328, 3168), (385, 3366),

Gene: NotAPhaseMom_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for NotAPhaseMom_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: NothingSpecial_7 Start: 5206, Stop: 5850, Start Num: 162
Candidate Starts for NothingSpecial_7:
(Start: 162 @5206 has 386 MA's), (177, 5230), (207, 5278), (257, 5422), (330, 5650),

Gene: NovaSharks_32 Start: 27111, Stop: 28208, Start Num: 15
Candidate Starts for NovaSharks_32:
(Start: 15 @27111 has 11 MA's), (41, 27225), (70, 27318), (82, 27351), (85, 27354), (87, 27357), (96, 27378), (101, 27390), (120, 27438), (145, 27501), (181, 27555), (240, 27651), (249, 27693), (308, 27927), (325, 27966), (353, 28053), (388, 28200),

Gene: Nyceirae_31 Start: 26839, Stop: 27909, Start Num: 20
Candidate Starts for Nyceirae_31:
(Start: 20 @26839 has 31 MA's), (40, 26920), (44, 26944), (84, 27049), (107, 27106), (117, 27127), (135, 27175), (Start: 204 @27301 has 1 MA's), (Start: 229 @27352 has 1 MA's), (246, 27409), (249, 27424), (279, 27541),

Gene: Nyxis_5 Start: 2725, Stop: 3387, Start Num: 162
Candidate Starts for Nyxis_5:
(Start: 162 @2725 has 386 MA's), (Start: 229 @2830 has 1 MA's), (321, 3145), (385, 3370),

Gene: OKCentral2016_5 Start: 2376, Stop: 3164, Start Num: 162
Candidate Starts for OKCentral2016_5:
(Start: 162 @2376 has 386 MA's), (217, 2463), (250, 2553), (288, 2685), (295, 2826), (299, 2877), (300, 2880), (309, 2916), (385, 3150),

Gene: OKaNui_5 Start: 2487, Stop: 3149, Start Num: 162
Candidate Starts for OKaNui_5:
(Start: 162 @2487 has 386 MA's), (Start: 229 @2592 has 1 MA's), (319, 2904), (321, 2907), (385, 3132),

Gene: ObLaDi_26 Start: 23899, Stop: 24609, Start Num: 151
Candidate Starts for ObLaDi_26:
(14, 23482), (81, 23737), (Start: 151 @23899 has 5 MA's), (Start: 162 @23914 has 386 MA's), (Start: 171 @23929 has 1 MA's), (266, 24181), (323, 24373),

Gene: Obama12_5 Start: 2724, Stop: 3389, Start Num: 162
Candidate Starts for Obama12_5:
(Start: 162 @2724 has 386 MA's), (250, 2901), (273, 2991), (306, 3117),

Gene: Odin_31 Start: 23199, Stop: 23798, Start Num: 191
Candidate Starts for Odin_31:
(Start: 191 @23199 has 3 MA's), (210, 23232), (250, 23319), (282, 23439), (314, 23556),

Gene: Ohfah_5 Start: 2722, Stop: 3384, Start Num: 162

Candidate Starts for Ohfah_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: OkiRoe_27 Start: 23934, Stop: 25001, Start Num: 21
Candidate Starts for OkiRoe_27:
(Start: 21 @23934 has 70 MA's), (48, 24051), (68, 24108), (90, 24156), (92, 24162), (118, 24222), (123, 24237), (134, 24264), (156, 24303), (Start: 159 @24306 has 11 MA's), (168, 24318), (Start: 169 @24321 has 10 MA's), (Start: 171 @24324 has 1 MA's), (Start: 178 @24339 has 2 MA's), (Start: 204 @24384 has 1 MA's), (207, 24390), (234, 24444), (246, 24492), (253, 24522), (263, 24567), (298, 24696), (317, 24750),

Gene: OlanP_5 Start: 3068, Stop: 3718, Start Num: 162
Candidate Starts for OlanP_5:
(Start: 162 @3068 has 386 MA's), (231, 3176), (252, 3251), (303, 3443),

Gene: Ollie_5 Start: 2809, Stop: 3468, Start Num: 162
Candidate Starts for Ollie_5:
(Start: 162 @2809 has 386 MA's), (217, 2896), (240, 2938), (252, 2992), (273, 3076), (279, 3094),

Gene: Omnicron_28 Start: 22797, Stop: 23876, Start Num: 21
Candidate Starts for Omnicron_28:
(Start: 21 @22797 has 70 MA's), (28, 22824), (68, 22971), (71, 22977), (92, 23025), (108, 23064), (117, 23082), (123, 23100), (156, 23166), (Start: 178 @23202 has 2 MA's), (193, 23226), (195, 23232), (238, 23325), (260, 23427), (273, 23472), (290, 23517), (291, 23520), (296, 23538), (299, 23559), (313, 23601), (321, 23619), (347, 23715), (349, 23718), (385, 23859),

Gene: Onglai_7 Start: 3560, Stop: 4231, Start Num: 162
Candidate Starts for Onglai_7:
(Start: 162 @3560 has 386 MA's), (250, 3734), (257, 3770), (321, 3983), (370, 4154),

Gene: Orange_8 Start: 5410, Stop: 6072, Start Num: 162
Candidate Starts for Orange_8:
(Start: 162 @5410 has 386 MA's), (Start: 204 @5476 has 1 MA's), (242, 5551), (268, 5662), (351, 5902), (362, 5947),

Gene: OtterstedtS21_33 Start: 29200, Stop: 30249, Start Num: 20
Candidate Starts for OtterstedtS21_33:
(Start: 20 @29200 has 31 MA's), (48, 29314), (62, 29356), (84, 29410), (93, 29425), (117, 29488), (140, 29548), (199, 29650), (Start: 229 @29713 has 1 MA's), (276, 29884), (354, 30112),

Gene: P28Green_5 Start: 2630, Stop: 3265, Start Num: 162
Candidate Starts for P28Green_5:
(Start: 162 @2630 has 386 MA's), (257, 2843),

Gene: PGHhamlin_7 Start: 2890, Stop: 3549, Start Num: 162
Candidate Starts for PGHhamlin_7:
(Start: 162 @2890 has 386 MA's), (252, 3073), (257, 3106), (279, 3175), (383, 3529),

Gene: PackMan_8 Start: 5239, Stop: 5868, Start Num: 162
Candidate Starts for PackMan_8:
(Start: 162 @5239 has 386 MA's), (184, 5278), (252, 5419), (257, 5449), (262, 5464),

Gene: PainterBoy_8 Start: 4875, Stop: 5543, Start Num: 149
Candidate Starts for PainterBoy_8:
(Start: 149 @4875 has 3 MA's), (194, 4932), (219, 4968), (282, 5169), (351, 5391),

Gene: Palestino_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Palestino_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Panamaxus_5 Start: 2764, Stop: 3423, Start Num: 162
Candidate Starts for Panamaxus_5:
(Start: 162 @2764 has 386 MA's), (176, 2785), (217, 2851), (250, 2941), (257, 2977), (332, 3223), (363, 3310),

Gene: Panchino_21 Start: 20180, Stop: 21217, Start Num: 21
Candidate Starts for Panchino_21:
(Start: 21 @20180 has 70 MA's), (62, 20336), (64, 20342), (109, 20450), (118, 20468), (Start: 159 @20558 has 11 MA's), (185, 20603), (Start: 229 @20684 has 1 MA's), (251, 20765), (273, 20852), (279, 20870), (298, 20942), (313, 20987), (370, 21152),

Gene: Paola_27 Start: 23933, Stop: 25000, Start Num: 21
Candidate Starts for Paola_27:
(Start: 21 @23933 has 70 MA's), (48, 24050), (68, 24107), (90, 24155), (92, 24161), (117, 24218), (118, 24221), (123, 24236), (134, 24263), (156, 24302), (Start: 159 @24305 has 11 MA's), (168, 24317), (Start: 169 @24320 has 10 MA's), (Start: 171 @24323 has 1 MA's), (Start: 178 @24338 has 2 MA's), (Start: 204 @24383 has 1 MA's), (207, 24389), (234, 24443), (246, 24491), (253, 24521), (263, 24566), (298, 24695), (317, 24749),

Gene: Parada_27 Start: 23315, Stop: 24382, Start Num: 22
Candidate Starts for Parada_27:
(Start: 22 @23315 has 14 MA's), (92, 23525), (175, 23693), (240, 23834), (243, 23849), (246, 23861), (251, 23885), (270, 23969), (282, 24005), (315, 24116),

Gene: ParvusTarda_33 Start: 28670, Stop: 29716, Start Num: 20
Candidate Starts for ParvusTarda_33:
(Start: 20 @28670 has 31 MA's), (48, 28784), (56, 28805), (84, 28880), (93, 28895), (117, 28958), (199, 29120), (276, 29354),

Gene: Patience_38 Start: 32593, Stop: 33633, Start Num: 17
Candidate Starts for Patience_38:
(Start: 17 @32593 has 4 MA's), (33, 32671), (53, 32749), (139, 32962), (Start: 141 @32968 has 3 MA's), (192, 33046), (246, 33139), (252, 33166),

Gene: Patos_34 Start: 29125, Stop: 30174, Start Num: 20
Candidate Starts for Patos_34:
(Start: 20 @29125 has 31 MA's), (38, 29200), (48, 29239), (56, 29260), (84, 29335), (93, 29350), (117, 29413), (Start: 229 @29638 has 1 MA's), (276, 29809), (354, 30037), (369, 30082),

Gene: Pawn_5 Start: 2888, Stop: 3538, Start Num: 162
Candidate Starts for Pawn_5:
(Start: 162 @2888 has 386 MA's), (231, 2996), (252, 3071), (303, 3263),

Gene: Peaches_5 Start: 2722, Stop: 3384, Start Num: 162

Candidate Starts for Peaches_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: PeanutPie_22 Start: 21330, Stop: 22343, Start Num: 26
Candidate Starts for PeanutPie_22:
(Start: 17 @21282 has 4 MA's), (Start: 20 @21303 has 31 MA's), (Start: 21 @21306 has 70 MA's), (26, 21330), (64, 21468), (78, 21510), (110, 21579), (134, 21639), (Start: 159 @21684 has 11 MA's), (185, 21729), (Start: 229 @21810 has 1 MA's), (246, 21867), (251, 21891), (279, 21996), (298, 22068), (313, 22113), (370, 22278),

Gene: PegLeg_31 Start: 26991, Stop: 28046, Start Num: 21
Candidate Starts for PegLeg_31:
(Start: 21 @26991 has 70 MA's), (86, 27204), (103, 27240), (127, 27303), (Start: 169 @27375 has 10 MA's), (185, 27405), (198, 27426), (218, 27462), (234, 27498), (246, 27546), (250, 27567), (252, 27573), (256, 27603), (257, 27606), (271, 27654), (333, 27843), (341, 27864), (361, 27918),

Gene: Pembroke_5 Start: 2890, Stop: 3558, Start Num: 162
Candidate Starts for Pembroke_5:
(Start: 162 @2890 has 386 MA's), (252, 3073), (257, 3106), (279, 3175), (383, 3538),

Gene: Penny1_5 Start: 2629, Stop: 3264, Start Num: 162
Candidate Starts for Penny1_5:
(Start: 162 @2629 has 386 MA's), (257, 2842),

Gene: Perplexer_5 Start: 2733, Stop: 3395, Start Num: 162
Candidate Starts for Perplexer_5:
(Start: 162 @2733 has 386 MA's), (Start: 229 @2838 has 1 MA's), (321, 3153),

Gene: PeterPeter_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for PeterPeter_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Petersenfast_8 Start: 5413, Stop: 6075, Start Num: 162
Candidate Starts for Petersenfast_8:
(Start: 162 @5413 has 386 MA's), (Start: 204 @5479 has 1 MA's), (242, 5554), (268, 5665), (351, 5905), (362, 5950),

Gene: PetiteSangsue_5 Start: 2733, Stop: 3395, Start Num: 162
Candidate Starts for PetiteSangsue_5:
(Start: 162 @2733 has 386 MA's), (Start: 229 @2838 has 1 MA's), (321, 3153),

Gene: Ph8s_33 Start: 23091, Stop: 23747, Start Num: 162
Candidate Starts for Ph8s_33:
(39, 22788), (Start: 162 @23091 has 386 MA's), (Start: 171 @23106 has 1 MA's), (216, 23181), (231, 23205), (240, 23226), (250, 23274), (252, 23280), (257, 23310), (271, 23361), (282, 23394), (292, 23421), (298, 23454), (321, 23520), (329, 23550), (337, 23568),

Gene: Phacado_5 Start: 2721, Stop: 3383, Start Num: 162
Candidate Starts for Phacado_5:
(Start: 162 @2721 has 386 MA's), (Start: 229 @2826 has 1 MA's), (319, 3138), (321, 3141), (385, 3366),

Gene: Phaded_8 Start: 5071, Stop: 5733, Start Num: 162
Candidate Starts for Phaded_8:
(Start: 162 @5071 has 386 MA's), (213, 5152), (273, 5338), (306, 5464), (385, 5716),

Gene: Phaeder_8 Start: 5239, Stop: 5868, Start Num: 162
Candidate Starts for Phaeder_8:
(Start: 162 @5239 has 386 MA's), (184, 5278), (252, 5419), (257, 5449), (262, 5464),

Gene: Phantastic_5 Start: 2835, Stop: 3479, Start Num: 162
Candidate Starts for Phantastic_5:
(Start: 162 @2835 has 386 MA's), (190, 2886), (216, 2919), (252, 3018), (292, 3159), (344, 3324),

Gene: Phayeta_34 Start: 32624, Stop: 33289, Start Num: 169
Candidate Starts for Phayeta_34:
(Start: 169 @32624 has 10 MA's), (176, 32636), (186, 32660), (215, 32708), (218, 32714), (220, 32720), (223, 32726), (234, 32750), (252, 32825), (256, 32855), (275, 32915), (279, 32927), (286, 32945), (310, 33044), (313, 33047), (354, 33152), (356, 33158), (361, 33176), (382, 33263),

Gene: Phayonce_22 Start: 21448, Stop: 22485, Start Num: 21
Candidate Starts for Phayonce_22:
(Start: 21 @21448 has 70 MA's), (64, 21610), (86, 21661), (103, 21697), (114, 21724), (134, 21772), (Start: 169 @21829 has 10 MA's), (188, 21865), (250, 22018), (256, 22054), (279, 22126), (321, 22261), (341, 22315), (369, 22393),

Gene: Phelipe_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Phelipe_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Phighter1804_5 Start: 2721, Stop: 3386, Start Num: 162
Candidate Starts for Phighter1804_5:
(Start: 162 @2721 has 386 MA's), (213, 2802), (217, 2808), (273, 2988), (306, 3114),

Gene: Phillis_5 Start: 3347, Stop: 4006, Start Num: 173
Candidate Starts for Phillis_5:
(Start: 173 @3347 has 12 MA's), (209, 3404), (Start: 229 @3446 has 1 MA's), (354, 3863),

Gene: Phineas_22 Start: 21670, Stop: 22707, Start Num: 21
Candidate Starts for Phineas_22:
(Start: 21 @21670 has 70 MA's), (64, 21835), (78, 21877), (109, 21943), (110, 21946), (118, 21961), (Start: 159 @22048 has 11 MA's), (185, 22093), (Start: 229 @22174 has 1 MA's), (246, 22231), (251, 22255), (279, 22360), (298, 22432), (313, 22477),

Gene: PhishRPhriends_5 Start: 2400, Stop: 3035, Start Num: 162
Candidate Starts for PhishRPhriends_5:
(Start: 162 @2400 has 386 MA's), (247, 2565), (249, 2571), (257, 2613), (279, 2685), (287, 2706), (321, 2808),

Gene: Phishy_30 Start: 26793, Stop: 27842, Start Num: 21
Candidate Starts for Phishy_30:
(Start: 21 @26793 has 70 MA's), (84, 27003), (117, 27081), (Start: 171 @27189 has 1 MA's), (240, 27339), (242, 27351), (246, 27366), (294, 27543), (321, 27618),

Gene: Phlei_5 Start: 5021, Stop: 5680, Start Num: 167
Candidate Starts for Phlei_5:
(167, 5021),

Gene: Phlorence_5 Start: 3728, Stop: 4375, Start Num: 174
Candidate Starts for Phlorence_5:
(Start: 162 @3710 has 386 MA's), (Start: 174 @3728 has 5 MA's), (Start: 204 @3776 has 1 MA's), (217, 3797), (252, 3893),

Gene: Phoebe_5 Start: 2629, Stop: 3264, Start Num: 162
Candidate Starts for Phoebe_5:
(Start: 162 @2629 has 386 MA's), (257, 2842),

Gene: Phonnegut_8 Start: 5227, Stop: 5898, Start Num: 162
Candidate Starts for Phonnegut_8:
(Start: 162 @5227 has 386 MA's), (250, 5401), (257, 5437), (321, 5650), (370, 5821),

Gene: Phontbonne_5 Start: 2720, Stop: 3382, Start Num: 162
Candidate Starts for Phontbonne_5:
(Start: 162 @2720 has 386 MA's), (Start: 229 @2825 has 1 MA's), (321, 3140), (385, 3365),

Gene: Phoxy_5 Start: 2720, Stop: 3352, Start Num: 162
Candidate Starts for Phoxy_5:
(Start: 162 @2720 has 386 MA's), (252, 2903), (253, 2906), (257, 2933),

Gene: Phrann_21 Start: 20409, Stop: 21479, Start Num: 19
Candidate Starts for Phrann_21:
(Start: 19 @20409 has 4 MA's), (Start: 21 @20412 has 70 MA's), (64, 20574), (78, 20616), (110, 20685), (134, 20745), (Start: 159 @20790 has 11 MA's), (185, 20835), (224, 20904), (Start: 229 @20916 has 1 MA's), (246, 20973), (251, 20997), (297, 21168),

Gene: Phranny_6 Start: 2888, Stop: 3535, Start Num: 162
Candidate Starts for Phranny_6:
(Start: 162 @2888 has 386 MA's), (231, 2996), (252, 3071), (257, 3104),

Gene: Phrappuccino_175 Start: 114916, Stop: 115800, Start Num: 79
Candidate Starts for Phrappuccino_175:
(67, 114880), (Start: 79 @114916 has 2 MA's), (112, 114994), (121, 115012), (125, 115027), (187, 115144), (189, 115147), (222, 115213), (279, 115414), (291, 115450), (314, 115546), (319, 115549), (340, 115597), (366, 115681), (380, 115750), (387, 115792),

Gene: Pimento_27 Start: 22790, Stop: 23857, Start Num: 20
Candidate Starts for Pimento_27:
(11, 22655), (Start: 20 @22790 has 31 MA's), (98, 23009), (140, 23111), (168, 23153), (175, 23165), (240, 23309), (246, 23336), (251, 23360), (284, 23483), (307, 23573), (315, 23591),

Gene: Pioneer_8 Start: 5227, Stop: 5898, Start Num: 162
Candidate Starts for Pioneer_8:
(Start: 162 @5227 has 386 MA's), (250, 5401), (257, 5437), (321, 5650), (370, 5821),

Gene: Pipcraft_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Pipcraft_5:

(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Pistachio_5 Start: 2377, Stop: 3027, Start Num: 162
Candidate Starts for Pistachio_5:
(Start: 162 @2377 has 386 MA's), (273, 2644), (383, 3007),

Gene: Pmask_8 Start: 4661, Stop: 5359, Start Num: 142
Candidate Starts for Pmask_8:
(Start: 142 @4661 has 48 MA's), (337, 5165), (385, 5351),

Gene: Pocahontas_5 Start: 2764, Stop: 3423, Start Num: 162
Candidate Starts for Pocahontas_5:
(Start: 162 @2764 has 386 MA's), (176, 2785), (217, 2851), (250, 2941), (257, 2977), (332, 3223), (363, 3310),

Gene: Poland_34 Start: 38011, Stop: 38913, Start Num: 47
Candidate Starts for Poland_34:
(Start: 47 @38011 has 35 MA's), (91, 38116), (103, 38146), (112, 38176), (119, 38188), (Start: 169 @38272 has 10 MA's), (194, 38320), (226, 38356), (251, 38437), (264, 38491), (291, 38581), (341, 38728), (385, 38896),

Gene: Polymorphads_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Polymorphads_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Polyphemus_8 Start: 4663, Stop: 5361, Start Num: 142
Candidate Starts for Polyphemus_8:
(Start: 142 @4663 has 48 MA's), (337, 5167), (385, 5353),

Gene: Pomar16_35 Start: 24453, Stop: 25124, Start Num: 162
Candidate Starts for Pomar16_35:
(Start: 162 @24453 has 386 MA's), (217, 24543), (231, 24564), (250, 24633), (257, 24669), (270, 24717), (347, 24957), (349, 24960), (375, 25059), (379, 25074),

Gene: Popcicle_5 Start: 2764, Stop: 3423, Start Num: 162
Candidate Starts for Popcicle_5:
(Start: 162 @2764 has 386 MA's), (176, 2785), (217, 2851), (250, 2941), (257, 2977), (332, 3223), (363, 3310),

Gene: PotatoSplit_6 Start: 2629, Stop: 3264, Start Num: 162
Candidate Starts for PotatoSplit_6:
(Start: 162 @2629 has 386 MA's), (257, 2842),

Gene: Priamo_8 Start: 4676, Stop: 5344, Start Num: 142
Candidate Starts for Priamo_8:
(Start: 142 @4676 has 48 MA's), (311, 5087), (337, 5150), (385, 5336),

Gene: Prinashe11_5 Start: 3571, Stop: 4233, Start Num: 162
Candidate Starts for Prinashe11_5:
(Start: 162 @3571 has 386 MA's), (170, 3583), (182, 3607), (190, 3622), (Start: 204 @3637 has 1 MA's), (242, 3712), (275, 3841), (351, 4063),

Gene: Priya_8 Start: 5225, Stop: 5896, Start Num: 162
Candidate Starts for Priya_8:
(Start: 162 @5225 has 386 MA's), (257, 5435), (279, 5507), (321, 5648), (357, 5741), (370, 5819), (383, 5873),

Gene: Prudy_7 Start: 5267, Stop: 5929, Start Num: 162
Candidate Starts for Prudy_7:
(Start: 162 @5267 has 386 MA's), (213, 5348), (Start: 229 @5372 has 1 MA's), (270, 5522), (388, 5924),

Gene: Pukovnik_8 Start: 5014, Stop: 5685, Start Num: 162
Candidate Starts for Pukovnik_8:
(Start: 162 @5014 has 386 MA's), (250, 5188), (257, 5224), (292, 5335), (352, 5515),

Gene: Pumbaa_5 Start: 2720, Stop: 3385, Start Num: 162
Candidate Starts for Pumbaa_5:
(Start: 162 @2720 has 386 MA's), (213, 2801), (217, 2807), (273, 2987), (306, 3113),

Gene: Pupper_126 Start: 83200, Stop: 84090, Start Num: 49
Candidate Starts for Pupper_126:
(Start: 49 @83200 has 4 MA's), (172, 83473), (292, 83770), (312, 83839), (354, 83935),

Gene: Puppy_5 Start: 2449, Stop: 3099, Start Num: 162
Candidate Starts for Puppy_5:
(Start: 162 @2449 has 386 MA's), (252, 2632), (273, 2716),

Gene: Purky_22 Start: 21124, Stop: 22170, Start Num: 21
Candidate Starts for Purky_22:
(Start: 21 @21124 has 70 MA's), (86, 21337), (134, 21448), (Start: 159 @21490 has 11 MA's), (Start: 162 @21493 has 386 MA's), (200, 21562), (250, 21694), (256, 21730), (291, 21838), (341, 21991), (343, 22000), (348, 22012),

Gene: PurpleHaze_5 Start: 2887, Stop: 3537, Start Num: 162
Candidate Starts for PurpleHaze_5:
(Start: 162 @2887 has 386 MA's), (231, 2995), (252, 3070), (303, 3262),

Gene: Pywacket_32 Start: 30015, Stop: 31064, Start Num: 20
Candidate Starts for Pywacket_32:
(Start: 20 @30015 has 31 MA's), (38, 30090), (48, 30129), (56, 30150), (84, 30225), (93, 30240), (117, 30303), (140, 30363), (199, 30465), (Start: 229 @30528 has 1 MA's), (276, 30699), (354, 30927),

Gene: Qobbit_8 Start: 5224, Stop: 5895, Start Num: 162
Candidate Starts for Qobbit_8:
(Start: 162 @5224 has 386 MA's), (250, 5398), (257, 5434), (321, 5647), (370, 5818), (383, 5872),

Gene: QuinnKiro_4 Start: 2764, Stop: 3423, Start Num: 162
Candidate Starts for QuinnKiro_4:
(Start: 162 @2764 has 386 MA's), (176, 2785), (217, 2851), (250, 2941), (257, 2977), (332, 3223), (363, 3310),

Gene: Quokka_30 Start: 23397, Stop: 23996, Start Num: 191
Candidate Starts for Quokka_30:

(Start: 191 @23397 has 3 MA's), (210, 23430), (231, 23448), (250, 23517), (270, 23601), (282, 23637), (314, 23754), (373, 23925),

Gene: Rachaly_9 Start: 5384, Stop: 6061, Start Num: 162
Candidate Starts for Rachaly_9:
(Start: 162 @5384 has 386 MA's), (182, 5420), (251, 5564), (276, 5660), (292, 5708), (321, 5798), (328, 5825),

Gene: Rahalelujah_31 Start: 23978, Stop: 24619, Start Num: 159
Candidate Starts for Rahalelujah_31:
(122, 23906), (Start: 159 @23978 has 11 MA's), (240, 24113), (250, 24161), (314, 24392), (383, 24599),

Gene: Ranch_33 Start: 28024, Stop: 29073, Start Num: 20
Candidate Starts for Ranch_33:
(Start: 20 @28024 has 31 MA's), (48, 28138), (62, 28180), (84, 28234), (93, 28249), (117, 28312), (Start: 229 @28537 has 1 MA's), (276, 28708), (354, 28936), (369, 28981),

Gene: Rando14_28 Start: 22698, Stop: 23777, Start Num: 21
Candidate Starts for Rando14_28:
(Start: 21 @22698 has 70 MA's), (Start: 24 @22716 has 2 MA's), (50, 22818), (68, 22872), (69, 22875), (71, 22878), (92, 22926), (106, 22962), (108, 22965), (109, 22968), (123, 23001), (Start: 178 @23103 has 2 MA's), (185, 23115), (193, 23127), (195, 23133), (202, 23145), (211, 23166), (242, 23244), (252, 23286), (260, 23328), (273, 23373), (313, 23502),

Gene: RavenCo17_26 Start: 23835, Stop: 24911, Start Num: 20
Candidate Starts for RavenCo17_26:
(11, 23700), (Start: 20 @23835 has 31 MA's), (58, 23973), (84, 24045), (99, 24075), (168, 24225), (175, 24237), (197, 24279), (202, 24291), (Start: 229 @24348 has 1 MA's), (246, 24399), (261, 24471), (290, 24564), (344, 24726), (380, 24867),

Gene: RazorC_31 Start: 27503, Stop: 28600, Start Num: 15
Candidate Starts for RazorC_31:
(Start: 15 @27503 has 11 MA's), (41, 27617), (70, 27710), (82, 27743), (85, 27746), (87, 27749), (96, 27770), (101, 27782), (120, 27830), (145, 27893), (181, 27947), (240, 28043), (249, 28085), (308, 28319), (325, 28358), (353, 28445), (388, 28592),

Gene: ReMo_8 Start: 4403, Stop: 5071, Start Num: 169
Candidate Starts for ReMo_8:
(Start: 169 @4403 has 10 MA's), (266, 4643), (285, 4709), (323, 4835),

Gene: Reba_6 Start: 2561, Stop: 3208, Start Num: 162
Candidate Starts for Reba_6:
(Start: 162 @2561 has 386 MA's), (231, 2669), (252, 2744), (257, 2777),

Gene: Rebeuca_6 Start: 3002, Stop: 3649, Start Num: 162
Candidate Starts for Rebeuca_6:
(Start: 162 @3002 has 386 MA's), (231, 3110), (250, 3179), (273, 3269), (299, 3362),

Gene: RedRock_8 Start: 5246, Stop: 5983, Start Num: 162
Candidate Starts for RedRock_8:
(Start: 162 @5246 has 386 MA's), (291, 5567), (329, 5717), (350, 5780),

Gene: Reindeer_30 Start: 26952, Stop: 28001, Start Num: 21
Candidate Starts for Reindeer_30:
(Start: 21 @26952 has 70 MA's), (32, 26988), (86, 27165), (114, 27228), (117, 27231), (131, 27270), (137, 27285), (Start: 171 @27336 has 1 MA's), (198, 27384), (234, 27453), (246, 27501), (250, 27522), (252, 27528), (256, 27558), (279, 27630), (321, 27765), (341, 27819), (359, 27870), (362, 27876), (369, 27909),

Gene: Relief_5 Start: 2723, Stop: 3385, Start Num: 162
Candidate Starts for Relief_5:
(Start: 162 @2723 has 386 MA's), (Start: 229 @2828 has 1 MA's), (291, 3044), (319, 3140), (321, 3143), (385, 3368),

Gene: Remus_8 Start: 4403, Stop: 5071, Start Num: 169
Candidate Starts for Remus_8:
(Start: 169 @4403 has 10 MA's), (266, 4643), (285, 4709), (323, 4835),

Gene: ResDef_5 Start: 2764, Stop: 3423, Start Num: 162
Candidate Starts for ResDef_5:
(Start: 162 @2764 has 386 MA's), (176, 2785), (217, 2851), (250, 2941), (257, 2977), (332, 3223), (363, 3310),

Gene: RhynO_5 Start: 2841, Stop: 3488, Start Num: 162
Candidate Starts for RhynO_5:
(Start: 162 @2841 has 386 MA's), (177, 2865), (217, 2928), (250, 3018), (273, 3108), (299, 3201),

Gene: Riduram_30 Start: 27081, Stop: 28178, Start Num: 15
Candidate Starts for Riduram_30:
(Start: 15 @27081 has 11 MA's), (41, 27195), (70, 27288), (82, 27321), (85, 27324), (87, 27327), (96, 27348), (101, 27360), (120, 27408), (145, 27471), (181, 27525), (240, 27621), (249, 27663), (308, 27897), (325, 27936), (353, 28023), (388, 28170),

Gene: Rifter_8 Start: 4654, Stop: 5352, Start Num: 142
Candidate Starts for Rifter_8:
(Start: 142 @4654 has 48 MA's), (248, 4855), (337, 5158), (385, 5344),

Gene: Roary_5 Start: 3347, Stop: 4006, Start Num: 173
Candidate Starts for Roary_5:
(Start: 173 @3347 has 12 MA's), (209, 3404), (Start: 229 @3446 has 1 MA's), (354, 3863),

Gene: RockieBear_4 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for RockieBear_4:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Rocksand_5 Start: 2721, Stop: 3383, Start Num: 162
Candidate Starts for Rocksand_5:
(Start: 162 @2721 has 386 MA's), (Start: 229 @2826 has 1 MA's), (319, 3138), (321, 3141), (328, 3168), (385, 3366),

Gene: Rockstar_5 Start: 2748, Stop: 3383, Start Num: 162
Candidate Starts for Rockstar_5:
(Start: 162 @2748 has 386 MA's), (252, 2931), (257, 2961), (280, 3039), (292, 3072),

Gene: Roimos_5 Start: 2825, Stop: 3475, Start Num: 162
Candidate Starts for Roimos_5:
(Start: 162 @2825 has 386 MA's), (250, 3002), (273, 3092), (299, 3188),

Gene: Roksolana_8 Start: 4661, Stop: 5359, Start Num: 142
Candidate Starts for Roksolana_8:
(Start: 142 @4661 has 48 MA's), (337, 5165), (385, 5351),

Gene: Romney_5 Start: 2721, Stop: 3383, Start Num: 162
Candidate Starts for Romney_5:
(Start: 162 @2721 has 386 MA's), (Start: 229 @2826 has 1 MA's), (319, 3138), (321, 3141), (385, 3366),

Gene: Roosevelt_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Roosevelt_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Rosa24_4 Start: 2720, Stop: 3385, Start Num: 162
Candidate Starts for Rosa24_4:
(Start: 162 @2720 has 386 MA's), (250, 2897), (273, 2987), (306, 3113),

Gene: Rota_32 Start: 29482, Stop: 30456, Start Num: 38
Candidate Starts for Rota_32:
(Start: 20 @29407 has 31 MA's), (38, 29482), (48, 29521), (62, 29563), (84, 29617), (93, 29632), (117, 29695), (Start: 229 @29920 has 1 MA's), (276, 30091), (354, 30319),

Gene: Rowdy_6 Start: 2752, Stop: 3399, Start Num: 162
Candidate Starts for Rowdy_6:
(Start: 162 @2752 has 386 MA's), (177, 2776), (217, 2839), (250, 2929), (273, 3019), (299, 3112),

Gene: Ruin_5 Start: 2721, Stop: 3383, Start Num: 162
Candidate Starts for Ruin_5:
(Start: 162 @2721 has 386 MA's), (Start: 229 @2826 has 1 MA's), (319, 3138), (321, 3141), (385, 3366),

Gene: Rukungu_33 Start: 29795, Stop: 30766, Start Num: 38
Candidate Starts for Rukungu_33:
(Start: 20 @29720 has 31 MA's), (38, 29795), (48, 29834), (56, 29855), (84, 29930), (93, 29945), (117, 30008), (140, 30068), (Start: 229 @30233 has 1 MA's), (276, 30404),

Gene: Rumi_32 Start: 27114, Stop: 28211, Start Num: 15
Candidate Starts for Rumi_32:
(Start: 15 @27114 has 11 MA's), (41, 27228), (70, 27321), (82, 27354), (85, 27357), (87, 27360), (96, 27381), (101, 27393), (120, 27441), (145, 27504), (181, 27558), (240, 27654), (249, 27696), (281, 27822), (308, 27930), (325, 27969), (353, 28056), (388, 28203),

Gene: Rummer_5 Start: 2720, Stop: 3352, Start Num: 162
Candidate Starts for Rummer_5:
(Start: 162 @2720 has 386 MA's), (252, 2903), (253, 2906), (257, 2933),

Gene: RyeScarlet_9 Start: 5230, Stop: 5901, Start Num: 162
Candidate Starts for RyeScarlet_9:

(Start: 162 @5230 has 386 MA's), (250, 5404), (257, 5440), (321, 5653), (370, 5824),

Gene: SCentae_125 Start: 83353, Stop: 84243, Start Num: 49
Candidate Starts for SCentae_125:
(Start: 49 @83353 has 4 MA's), (354, 84088),

Gene: Sabertooth_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Sabertooth_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Sabinator_5 Start: 2629, Stop: 3264, Start Num: 162
Candidate Starts for Sabinator_5:
(Start: 162 @2629 has 386 MA's), (257, 2842),

Gene: Sachima_6 Start: 5239, Stop: 5868, Start Num: 162
Candidate Starts for Sachima_6:
(Start: 162 @5239 has 386 MA's), (184, 5278), (252, 5419), (257, 5449), (262, 5464),

Gene: Sadboi_34 Start: 30140, Stop: 30934, Start Num: 104
Candidate Starts for Sadboi_34:
(72, 30062), (76, 30074), (77, 30077), (Start: 104 @30140 has 1 MA's), (117, 30167), (140, 30227), (199, 30329), (Start: 229 @30392 has 1 MA's), (276, 30563), (354, 30797),

Gene: Saintus_5 Start: 3362, Stop: 4021, Start Num: 173
Candidate Starts for Saintus_5:
(Start: 173 @3362 has 12 MA's), (209, 3419), (214, 3428), (Start: 229 @3461 has 1 MA's), (354, 3878),

Gene: Salvus_26 Start: 22028, Stop: 23053, Start Num: 13
Candidate Starts for Salvus_26:
(Start: 13 @22028 has 2 MA's), (33, 22118), (111, 22337), (113, 22340), (120, 22352), (192, 22484), (219, 22520), (246, 22571), (258, 22628), (335, 22865), (373, 22991),

Gene: Salz_8 Start: 5410, Stop: 6072, Start Num: 162
Candidate Starts for Salz_8:
(Start: 162 @5410 has 386 MA's), (Start: 204 @5476 has 1 MA's), (242, 5551), (351, 5902), (362, 5947),

Gene: SamScheppers_27 Start: 24552, Stop: 25625, Start Num: 19
Candidate Starts for SamScheppers_27:
(Start: 19 @24552 has 4 MA's), (Start: 21 @24555 has 70 MA's), (98, 24795), (110, 24831), (114, 24840), (118, 24846), (134, 24891), (Start: 159 @24936 has 11 MA's), (Start: 171 @24954 has 1 MA's), (185, 24981), (Start: 229 @25062 has 1 MA's), (246, 25119), (251, 25143),

Gene: Sampudon_33 Start: 30054, Stop: 31103, Start Num: 20
Candidate Starts for Sampudon_33:
(Start: 20 @30054 has 31 MA's), (48, 30168), (56, 30189), (84, 30264), (93, 30279), (117, 30342), (140, 30402), (199, 30504), (Start: 229 @30567 has 1 MA's), (276, 30738), (354, 30966),

Gene: Saskia_8 Start: 5413, Stop: 6075, Start Num: 162
Candidate Starts for Saskia_8:
(Start: 162 @5413 has 386 MA's), (Start: 204 @5479 has 1 MA's), (242, 5554), (268, 5665), (351, 5905), (362, 5950),

Gene: SaturnRing_4 Start: 2830, Stop: 3480, Start Num: 162
Candidate Starts for SaturnRing_4:
(Start: 162 @2830 has 386 MA's), (273, 3097), (383, 3460),

Gene: Sbash_21 Start: 21030, Stop: 22079, Start Num: 21
Candidate Starts for Sbash_21:
(Start: 21 @21030 has 70 MA's), (64, 21192), (86, 21243), (114, 21306), (Start: 169 @21411 has 10 MA's), (250, 21600), (256, 21636), (279, 21708), (321, 21843), (341, 21897), (369, 21987),

Gene: Scamp_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Scamp_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Scherzo_8 Start: 5227, Stop: 5898, Start Num: 162
Candidate Starts for Scherzo_8:
(Start: 162 @5227 has 386 MA's), (250, 5401), (257, 5437), (321, 5650), (370, 5821),

Gene: Scitech_21 Start: 20194, Stop: 21228, Start Num: 21
Candidate Starts for Scitech_21:
(Start: 21 @20194 has 70 MA's), (62, 20350), (64, 20356), (109, 20464), (110, 20467), (118, 20482), (Start: 159 @20569 has 11 MA's), (185, 20614), (Start: 229 @20695 has 1 MA's), (246, 20752), (251, 20776), (279, 20881), (298, 20953), (313, 20998),

Gene: ScoobyDoobyDoo_107 Start: 58743, Stop: 59597, Start Num: 65
Candidate Starts for ScoobyDoobyDoo_107:
(Start: 65 @58743 has 1 MA's), (80, 58785), (83, 58788), (86, 58791), (117, 58860), (123, 58878), (157, 58941), (160, 58944), (203, 59016), (224, 59055), (250, 59145), (267, 59202), (292, 59283), (341, 59424),

Gene: ScoobyDoobyDoo_130 Start: 79579, Stop: 80151, Start Num: 204
Candidate Starts for ScoobyDoobyDoo_130:
(89, 79357), (137, 79477), (Start: 204 @79579 has 1 MA's), (250, 79696), (251, 79699), (257, 79732), (276, 79795), (354, 80008), (381, 80110),

Gene: Scout_5 Start: 2346, Stop: 2987, Start Num: 162
Candidate Starts for Scout_5:
(Start: 162 @2346 has 386 MA's), (216, 2430), (239, 2472), (313, 2748), (320, 2760),

Gene: SenorClean_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for SenorClean_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Serenity_31 Start: 23522, Stop: 24121, Start Num: 191
Candidate Starts for Serenity_31:
(Start: 191 @23522 has 3 MA's), (210, 23555), (231, 23573), (250, 23642), (270, 23726), (282, 23762), (314, 23879), (373, 24050),

Gene: Settecandela_175 Start: 114916, Stop: 115800, Start Num: 79
Candidate Starts for Settecandela_175:

(67, 114880), (Start: 79 @114916 has 2 MA's), (112, 114994), (121, 115012), (125, 115027), (187, 115144), (189, 115147), (222, 115213), (279, 115414), (291, 115450), (314, 115546), (319, 115549), (340, 115597), (366, 115681), (380, 115750), (387, 115792),

Gene: Shaka_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Shaka_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Sham4_8 Start: 5413, Stop: 6075, Start Num: 162
Candidate Starts for Sham4_8:
(Start: 162 @5413 has 386 MA's), (Start: 204 @5479 has 1 MA's), (242, 5554), (268, 5665), (351, 5905), (362, 5950),

Gene: Shapes_6 Start: 2752, Stop: 3399, Start Num: 162
Candidate Starts for Shapes_6:
(Start: 162 @2752 has 386 MA's), (177, 2776), (217, 2839), (250, 2929), (273, 3019), (299, 3112),

Gene: SheaKeira_32 Start: 24009, Stop: 24662, Start Num: 162
Candidate Starts for SheaKeira_32:
(Start: 162 @24009 has 386 MA's), (224, 24114), (231, 24126), (250, 24195), (252, 24201), (253, 24204), (257, 24234), (279, 24303), (292, 24342),

Gene: SheldonCooper_5 Start: 2723, Stop: 3388, Start Num: 162
Candidate Starts for SheldonCooper_5:
(Start: 162 @2723 has 386 MA's), (250, 2900), (273, 2990), (306, 3116),

Gene: Shelley_30 Start: 37583, Stop: 38485, Start Num: 47
Candidate Starts for Shelley_30:
(Start: 47 @37583 has 35 MA's), (103, 37721), (128, 37790), (154, 37838), (194, 37901), (226, 37937), (271, 38105), (361, 38357), (383, 38462),

Gene: Shep_5 Start: 2283, Stop: 2945, Start Num: 162
Candidate Starts for Shep_5:
(Start: 162 @2283 has 386 MA's), (250, 2460), (257, 2496), (262, 2511), (275, 2556), (354, 2784), (364, 2817),

Gene: Shweta_21 Start: 20201, Stop: 21238, Start Num: 21
Candidate Starts for Shweta_21:
(Start: 21 @20201 has 70 MA's), (62, 20357), (64, 20363), (78, 20405), (109, 20471), (110, 20474), (134, 20534), (Start: 159 @20579 has 11 MA's), (185, 20624), (Start: 229 @20705 has 1 MA's), (246, 20762), (251, 20786), (279, 20891), (298, 20963), (313, 21008),

Gene: Shygu2_5 Start: 2724, Stop: 3389, Start Num: 162
Candidate Starts for Shygu2_5:
(Start: 162 @2724 has 386 MA's), (250, 2901), (273, 2991), (306, 3117), (385, 3372),

Gene: Skadoosh_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Skadoosh_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Skinny_32 Start: 27432, Stop: 28493, Start Num: 21

Candidate Starts for Skinny_32:
(Start: 21 @27432 has 70 MA's), (31, 27468), (40, 27510), (68, 27600), (75, 27621), (90, 27648), (114, 27711), (158, 27801), (167, 27813), (172, 27822), (199, 27867), (234, 27933), (251, 28005), (273, 28095), (279, 28113), (313, 28230), (318, 28242), (344, 28332),

Gene: SkinnyPete_21 Start: 20204, Stop: 21241, Start Num: 21
Candidate Starts for SkinnyPete_21:
(Start: 21 @20204 has 70 MA's), (62, 20360), (64, 20366), (109, 20474), (118, 20492), (Start: 159 @20582 has 11 MA's), (185, 20627), (Start: 229 @20708 has 1 MA's), (251, 20789), (273, 20876), (279, 20894), (298, 20966), (313, 21011), (370, 21176),

Gene: Skipitt_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Skipitt_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (328, 3169), (385, 3367),

Gene: Skog_188 Start: 113083, Stop: 113973, Start Num: 49
Candidate Starts for Skog_188:
(Start: 49 @113083 has 4 MA's), (61, 113122), (94, 113194), (172, 113356), (312, 113722), (354, 113818),

Gene: SlimJimmy_30 Start: 26975, Stop: 28030, Start Num: 21
Candidate Starts for SlimJimmy_30:
(Start: 21 @26975 has 70 MA's), (86, 27188), (103, 27224), (127, 27287), (Start: 169 @27359 has 10 MA's), (185, 27389), (198, 27410), (218, 27446), (234, 27482), (246, 27530), (250, 27551), (252, 27557), (256, 27587), (257, 27590), (271, 27638), (341, 27848), (361, 27902),

Gene: Smeadley_5 Start: 3347, Stop: 4006, Start Num: 173
Candidate Starts for Smeadley_5:
(Start: 173 @3347 has 12 MA's), (209, 3404), (Start: 229 @3446 has 1 MA's), (318, 3764), (354, 3863),

Gene: SmellyB_8 Start: 4661, Stop: 5359, Start Num: 142
Candidate Starts for SmellyB_8:
(Start: 142 @4661 has 48 MA's), (337, 5165), (385, 5351),

Gene: Snape_8 Start: 5416, Stop: 6078, Start Num: 162
Candidate Starts for Snape_8:
(Start: 162 @5416 has 386 MA's), (Start: 204 @5482 has 1 MA's), (242, 5557), (351, 5908), (362, 5953),

Gene: Snickers_5 Start: 2872, Stop: 3531, Start Num: 162
Candidate Starts for Snickers_5:
(Start: 162 @2872 has 386 MA's), (240, 3001), (252, 3055), (257, 3088), (279, 3157), (383, 3511),

Gene: SoSeph_27 Start: 24081, Stop: 25148, Start Num: 21
Candidate Starts for SoSeph_27:
(Start: 21 @24081 has 70 MA's), (48, 24198), (68, 24255), (90, 24303), (92, 24309), (117, 24366), (118, 24369), (123, 24384), (134, 24411), (156, 24450), (Start: 159 @24453 has 11 MA's), (168, 24465), (Start: 169 @24468 has 10 MA's), (Start: 171 @24471 has 1 MA's), (Start: 178 @24486 has 2 MA's), (Start: 204 @24531 has 1 MA's), (207, 24537), (234, 24591), (246, 24639), (253, 24669), (263, 24714), (298, 24843), (317, 24897),

Gene: SoilDragon_5 Start: 2572, Stop: 3231, Start Num: 162

Candidate Starts for SoilDragon_5:
(Start: 162 @2572 has 386 MA's), (217, 2659), (240, 2701), (252, 2755), (259, 2794), (273, 2839),

Gene: SororFago_32 Start: 24455, Stop: 25399, Start Num: 54
Candidate Starts for SororFago_32:
(Start: 54 @24455 has 2 MA's), (102, 24578), (115, 24614), (147, 24689), (186, 24752), (190, 24758), (212, 24791), (251, 24893),

Gene: Soshari_7 Start: 2720, Stop: 3352, Start Num: 162
Candidate Starts for Soshari_7:
(Start: 162 @2720 has 386 MA's), (252, 2903), (253, 2906), (257, 2933),

Gene: Sparky_21 Start: 21885, Stop: 22931, Start Num: 21
Candidate Starts for Sparky_21:
(Start: 21 @21885 has 70 MA's), (86, 22098), (90, 22104), (134, 22209), (Start: 159 @22251 has 11 MA's), (Start: 162 @22254 has 386 MA's), (200, 22323), (250, 22455), (256, 22491), (291, 22599), (341, 22752), (343, 22761), (348, 22773),

Gene: Sparxx_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Sparxx_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Spike509_5 Start: 2720, Stop: 3352, Start Num: 162
Candidate Starts for Spike509_5:
(Start: 162 @2720 has 386 MA's), (252, 2903), (253, 2906), (257, 2933),

Gene: Spino_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Spino_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142),

Gene: Sprinklemunch_22 Start: 21828, Stop: 22874, Start Num: 21
Candidate Starts for Sprinklemunch_22:
(Start: 21 @21828 has 70 MA's), (44, 21933), (84, 22038), (Start: 151 @22194 has 5 MA's), (Start: 164 @22212 has 1 MA's), (166, 22215), (195, 22269), (246, 22398), (290, 22554), (307, 22626), (327, 22674), (328, 22677), (341, 22710),

Gene: Stagni_5 Start: 2891, Stop: 3559, Start Num: 162
Candidate Starts for Stagni_5:
(Start: 162 @2891 has 386 MA's), (240, 3020), (252, 3074), (257, 3107), (279, 3176), (383, 3539),

Gene: StarStuff_35 Start: 24412, Stop: 25083, Start Num: 162
Candidate Starts for StarStuff_35:
(Start: 162 @24412 has 386 MA's), (217, 24502), (231, 24523), (250, 24592), (257, 24628), (270, 24676), (347, 24916), (349, 24919), (375, 25018), (379, 25033),

Gene: Stasia_5 Start: 2745, Stop: 3407, Start Num: 162
Candidate Starts for Stasia_5:
(Start: 162 @2745 has 386 MA's), (213, 2826), (Start: 229 @2850 has 1 MA's),

Gene: SteMason_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for SteMason_5:

(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Steamy_8 Start: 5295, Stop: 5924, Start Num: 162
Candidate Starts for Steamy_8:
(Start: 162 @5295 has 386 MA's), (208, 5367), (213, 5376), (240, 5424), (254, 5481),

Gene: Stephig9_5 Start: 3348, Stop: 4007, Start Num: 173
Candidate Starts for Stephig9_5:
(Start: 173 @3348 has 12 MA's), (209, 3405), (Start: 229 @3447 has 1 MA's), (354, 3864),

Gene: Sticker17_30 Start: 38098, Stop: 39000, Start Num: 47
Candidate Starts for Sticker17_30:
(Start: 47 @38098 has 35 MA's), (103, 38236), (128, 38305), (154, 38353), (194, 38416), (226, 38452), (271, 38620), (357, 38854), (361, 38872), (383, 38977),

Gene: Stink_5 Start: 2719, Stop: 3384, Start Num: 162
Candidate Starts for Stink_5:
(Start: 162 @2719 has 386 MA's), (213, 2800), (273, 2986), (306, 3112),

Gene: Stormer_31 Start: 27117, Stop: 28214, Start Num: 15
Candidate Starts for Stormer_31:
(Start: 15 @27117 has 11 MA's), (41, 27231), (70, 27324), (82, 27357), (85, 27360), (87, 27363), (95, 27381), (96, 27384), (120, 27444), (139, 27495), (145, 27507), (152, 27519), (181, 27561), (240, 27657), (249, 27699), (308, 27933), (325, 27972), (353, 28059), (388, 28206),

Gene: Strosahl_8 Start: 4403, Stop: 5071, Start Num: 169
Candidate Starts for Strosahl_8:
(Start: 169 @4403 has 10 MA's), (266, 4643), (285, 4709), (323, 4835),

Gene: Sultana_5 Start: 2723, Stop: 3385, Start Num: 162
Candidate Starts for Sultana_5:
(Start: 162 @2723 has 386 MA's), (Start: 229 @2828 has 1 MA's), (319, 3140), (321, 3143), (385, 3368),

Gene: Sunhee_32 Start: 23957, Stop: 24625, Start Num: 159
Candidate Starts for Sunhee_32:
(18, 23567), (Start: 159 @23957 has 11 MA's), (250, 24140), (257, 24176), (282, 24260), (300, 24329), (314, 24383),

Gene: SuperAwesome_8 Start: 4661, Stop: 5359, Start Num: 142
Candidate Starts for SuperAwesome_8:
(Start: 142 @4661 has 48 MA's), (337, 5165), (385, 5351),

Gene: SuperCallie99_8 Start: 4662, Stop: 5360, Start Num: 142
Candidate Starts for SuperCallie99_8:
(Start: 142 @4662 has 48 MA's), (337, 5166), (385, 5352),

Gene: SuperSonics_37 Start: 31769, Stop: 32809, Start Num: 17
Candidate Starts for SuperSonics_37:
(Start: 17 @31769 has 4 MA's), (33, 31847), (53, 31925), (139, 32138), (Start: 141 @32144 has 3 MA's), (192, 32222), (246, 32315), (252, 32342),

Gene: Superchunk_31 Start: 22947, Stop: 23612, Start Num: 159
Candidate Starts for Superchunk_31:
(Start: 159 @22947 has 11 MA's), (Start: 162 @22950 has 386 MA's), (231, 23061), (250, 23130), (252, 23136), (257, 23166), (282, 23250), (319, 23373), (347, 23445), (379, 23562),

Gene: SwirlSquare_33 Start: 23197, Stop: 23850, Start Num: 162
Candidate Starts for SwirlSquare_33:
(Start: 162 @23197 has 386 MA's), (200, 23260), (206, 23266), (231, 23308), (250, 23377), (257, 23413), (282, 23497), (329, 23653), (337, 23671),

Gene: Swirley_5 Start: 3571, Stop: 4233, Start Num: 162
Candidate Starts for Swirley_5:
(Start: 162 @3571 has 386 MA's), (170, 3583), (182, 3607), (190, 3622), (Start: 204 @3637 has 1 MA's), (242, 3712), (275, 3841), (351, 4063),

Gene: SydNat_5 Start: 3697, Stop: 4344, Start Num: 174
Candidate Starts for SydNat_5:
(Start: 162 @3679 has 386 MA's), (Start: 174 @3697 has 5 MA's), (Start: 204 @3745 has 1 MA's), (217, 3766), (252, 3862), (374, 4291),

Gene: TNguyen7_5 Start: 2828, Stop: 3478, Start Num: 162
Candidate Starts for TNguyen7_5:
(Start: 162 @2828 has 386 MA's), (250, 3005), (273, 3095), (299, 3191),

Gene: TPA2_47 Start: 36929, Stop: 37582, Start Num: 169
Candidate Starts for TPA2_47:
(Start: 169 @36929 has 10 MA's), (189, 36965), (196, 36977), (205, 36995), (230, 37040), (250, 37100), (251, 37103), (278, 37205), (380, 37535),

Gene: Taquarus_5 Start: 2725, Stop: 3387, Start Num: 162
Candidate Starts for Taquarus_5:
(Start: 162 @2725 has 386 MA's), (Start: 229 @2830 has 1 MA's), (319, 3142), (321, 3145), (385, 3370),

Gene: Taquito_27 Start: 24633, Stop: 25676, Start Num: 19
Candidate Starts for Taquito_27:
(Start: 19 @24633 has 4 MA's), (Start: 21 @24636 has 70 MA's), (98, 24876), (110, 24912), (114, 24921), (118, 24927), (134, 24972), (Start: 159 @25017 has 11 MA's), (Start: 171 @25035 has 1 MA's), (185, 25062), (Start: 229 @25143 has 1 MA's), (246, 25200), (251, 25224), (279, 25329), (298, 25401), (313, 25446),

Gene: Tarynearal_4 Start: 3600, Stop: 4262, Start Num: 162
Candidate Starts for Tarynearal_4:
(Start: 162 @3600 has 386 MA's), (170, 3612), (182, 3636), (190, 3651), (Start: 204 @3666 has 1 MA's), (242, 3741), (275, 3870), (351, 4092),

Gene: Taurus_5 Start: 2629, Stop: 3264, Start Num: 162
Candidate Starts for Taurus_5:
(Start: 162 @2629 has 386 MA's), (257, 2842),

Gene: Teal_30 Start: 38566, Stop: 39468, Start Num: 47
Candidate Starts for Teal_30:

(Start: 47 @38566 has 35 MA's), (103, 38704), (128, 38773), (154, 38821), (194, 38884), (226, 38920), (271, 39088), (361, 39340), (383, 39445),

Gene: Temprado_8 Start: 4661, Stop: 5359, Start Num: 142
Candidate Starts for Temprado_8:
(Start: 142 @4661 has 48 MA's), (337, 5165), (385, 5351),

Gene: Texage_4 Start: 2764, Stop: 3423, Start Num: 162
Candidate Starts for Texage_4:
(Start: 162 @2764 has 386 MA's), (176, 2785), (217, 2851), (250, 2941), (257, 2977), (332, 3223), (363, 3310),

Gene: Thanksgivukkah_5 Start: 2723, Stop: 3385, Start Num: 162
Candidate Starts for Thanksgivukkah_5:
(Start: 162 @2723 has 386 MA's), (Start: 229 @2828 has 1 MA's), (319, 3140), (321, 3143), (385, 3368),

Gene: Theia_4 Start: 3572, Stop: 4234, Start Num: 162
Candidate Starts for Theia_4:
(Start: 162 @3572 has 386 MA's), (182, 3608), (190, 3623), (Start: 204 @3638 has 1 MA's), (242, 3713), (351, 4064),

Gene: ThulaThula_22 Start: 21454, Stop: 22491, Start Num: 21
Candidate Starts for ThulaThula_22:
(Start: 21 @21454 has 70 MA's), (64, 21616), (86, 21667), (103, 21703), (114, 21730), (134, 21778), (Start: 169 @21835 has 10 MA's), (188, 21871), (250, 22024), (256, 22060), (279, 22132), (321, 22267), (341, 22321), (369, 22399),

Gene: Thyatira_27 Start: 23933, Stop: 25000, Start Num: 21
Candidate Starts for Thyatira_27:
(Start: 21 @23933 has 70 MA's), (48, 24050), (68, 24107), (90, 24155), (92, 24161), (117, 24218), (118, 24221), (123, 24236), (134, 24263), (156, 24302), (Start: 159 @24305 has 11 MA's), (168, 24317), (Start: 169 @24320 has 10 MA's), (Start: 171 @24323 has 1 MA's), (Start: 178 @24338 has 2 MA's), (Start: 204 @24383 has 1 MA's), (207, 24389), (234, 24443), (246, 24491), (253, 24521), (263, 24566), (298, 24695), (317, 24749), (333, 24794),

Gene: Tiffany_5 Start: 2900, Stop: 3451, Start Num: 162
Candidate Starts for Tiffany_5:
(Start: 162 @2900 has 386 MA's), (240, 3029), (252, 3083), (257, 3116), (279, 3185), (383, 3431),

Gene: Tiger_5 Start: 3446, Stop: 4087, Start Num: 141
Candidate Starts for Tiger_5:
(Start: 141 @3446 has 3 MA's), (225, 3554), (249, 3614), (260, 3662), (265, 3668), (273, 3707), (289, 3752), (290, 3758),

Gene: Tillicus_32 Start: 28456, Stop: 29502, Start Num: 20
Candidate Starts for Tillicus_32:
(Start: 20 @28456 has 31 MA's), (Start: 34 @28513 has 1 MA's), (59, 28603), (62, 28612), (64, 28618), (68, 28627), (93, 28681), (195, 28897), (199, 28906), (218, 28945), (224, 28957), (246, 29026), (276, 29140), (286, 29167), (319, 29275),

Gene: Timothy_8 Start: 5410, Stop: 6072, Start Num: 162
Candidate Starts for Timothy_8:

(Start: 162 @5410 has 386 MA's), (Start: 204 @5476 has 1 MA's), (242, 5551), (268, 5662), (351, 5902),

Gene: TinaFeyge_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for TinaFeyge_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: TinyPebbles_5 Start: 2720, Stop: 3352, Start Num: 162
Candidate Starts for TinyPebbles_5:
(Start: 162 @2720 has 386 MA's), (252, 2903), (253, 2906), (257, 2933),

Gene: TinyTimmy_8 Start: 5410, Stop: 6072, Start Num: 162
Candidate Starts for TinyTimmy_8:
(Start: 162 @5410 has 386 MA's), (Start: 204 @5476 has 1 MA's), (242, 5551), (268, 5662), (351, 5902), (362, 5947),

Gene: Tinybot_4 Start: 2725, Stop: 3390, Start Num: 162
Candidate Starts for Tinybot_4:
(Start: 162 @2725 has 386 MA's), (250, 2902), (273, 2992), (306, 3118),

Gene: TipsytheTRex_31 Start: 23713, Stop: 24366, Start Num: 162
Candidate Starts for TipsytheTRex_31:
(Start: 159 @23710 has 11 MA's), (Start: 162 @23713 has 386 MA's), (195, 23767), (250, 23893), (257, 23929), (321, 24139), (329, 24169), (334, 24178), (337, 24187), (376, 24316),

Gene: TiroTheta9_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for TiroTheta9_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (328, 3169), (385, 3367),

Gene: Toaka_31 Start: 24361, Stop: 25002, Start Num: 159
Candidate Starts for Toaka_31:
(Start: 159 @24361 has 11 MA's), (217, 24454), (231, 24475), (250, 24544), (273, 24634), (292, 24691), (308, 24763), (314, 24775), (347, 24853),

Gene: Todacoro_5 Start: 2764, Stop: 3423, Start Num: 162
Candidate Starts for Todacoro_5:
(Start: 162 @2764 has 386 MA's), (176, 2785), (217, 2851), (250, 2941), (257, 2977), (332, 3223), (363, 3310),

Gene: Tomathan_35 Start: 24412, Stop: 25083, Start Num: 162
Candidate Starts for Tomathan_35:
(Start: 162 @24412 has 386 MA's), (217, 24502), (231, 24523), (250, 24592), (257, 24628), (270, 24676), (347, 24916), (349, 24919), (375, 25018), (379, 25033),

Gene: ToneTone_7 Start: 4571, Stop: 5269, Start Num: 142
Candidate Starts for ToneTone_7:
(Start: 142 @4571 has 48 MA's), (337, 5075), (385, 5261),

Gene: Topanga_5 Start: 2891, Stop: 3580, Start Num: 162
Candidate Starts for Topanga_5:

(Start: 162 @2891 has 386 MA's), (217, 2975), (241, 3035), (261, 3128), (275, 3173), (290, 3218), (354, 3431),

Gene: Tortellini_22 Start: 21866, Stop: 22936, Start Num: 21
Candidate Starts for Tortellini_22:
(Start: 21 @21866 has 70 MA's), (98, 22106), (110, 22142), (114, 22151), (118, 22157), (134, 22202), (Start: 159 @22247 has 11 MA's), (Start: 171 @22265 has 1 MA's), (185, 22292), (Start: 229 @22373 has 1 MA's), (251, 22454), (291, 22592), (292, 22595),

Gene: Towmatter_36 Start: 34440, Stop: 35507, Start Num: 24
Candidate Starts for Towmatter_36:
(Start: 24 @34440 has 2 MA's), (148, 34785), (176, 34830), (190, 34860), (287, 35151), (289, 35157), (293, 35175), (310, 35241), (311, 35244), (321, 35262), (338, 35310), (386, 35496),

Gene: TpudiCK_32 Start: 26991, Stop: 28046, Start Num: 21
Candidate Starts for TpudiCK_32:
(Start: 21 @26991 has 70 MA's), (86, 27204), (103, 27240), (127, 27303), (Start: 169 @27375 has 10 MA's), (185, 27405), (198, 27426), (218, 27462), (234, 27498), (246, 27546), (250, 27567), (252, 27573), (256, 27603), (257, 27606), (271, 27654), (333, 27843), (341, 27864), (361, 27918),

Gene: TraderJ_39 Start: 33929, Stop: 34591, Start Num: 178
Candidate Starts for TraderJ_39:
(Start: 178 @33929 has 2 MA's), (208, 33986), (227, 34016), (228, 34019), (235, 34037), (273, 34193), (291, 34247), (315, 34334), (322, 34349), (331, 34379), (354, 34436), (358, 34448), (385, 34574),

Gene: Travvers_35 Start: 24412, Stop: 25083, Start Num: 162
Candidate Starts for Travvers_35:
(Start: 162 @24412 has 386 MA's), (217, 24502), (231, 24523), (250, 24592), (257, 24628), (270, 24676), (347, 24916), (349, 24919), (375, 25018), (379, 25033),

Gene: Tristan_8 Start: 5078, Stop: 5740, Start Num: 162
Candidate Starts for Tristan_8:
(Start: 162 @5078 has 386 MA's), (213, 5159),

Gene: Trixie_8 Start: 5232, Stop: 5918, Start Num: 162
Candidate Starts for Trixie_8:
(Start: 162 @5232 has 386 MA's), (217, 5319), (234, 5346), (250, 5403), (260, 5448), (293, 5556), (346, 5727), (357, 5748), (373, 5847),

Gene: TroyPia_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for TroyPia_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Tubs_8 Start: 5239, Stop: 5868, Start Num: 162
Candidate Starts for Tubs_8:
(Start: 162 @5239 has 386 MA's), (184, 5278), (252, 5419), (257, 5449), (262, 5464),

Gene: Tucker_8 Start: 4661, Stop: 5359, Start Num: 142
Candidate Starts for Tucker_8:
(Start: 142 @4661 has 48 MA's), (337, 5165), (385, 5351),

Gene: Turuncu_49 Start: 36776, Stop: 37405, Start Num: 179

Candidate Starts for Turuncu_49:
(105, 36638), (144, 36722), (161, 36743), (165, 36749), (Start: 179 @36776 has 1 MA's), (269, 37004), (374, 37334), (383, 37379),

Gene: Twigg_5 Start: 3571, Stop: 4233, Start Num: 162
Candidate Starts for Twigg_5:
(Start: 162 @3571 has 386 MA's), (170, 3583), (182, 3607), (190, 3622), (Start: 204 @3637 has 1 MA's), (242, 3712), (275, 3841), (351, 4063),

Gene: Twister_5 Start: 2837, Stop: 3484, Start Num: 162
Candidate Starts for Twister_5:
(Start: 162 @2837 has 386 MA's), (250, 3014), (288, 3146), (299, 3197), (300, 3200),

Gene: TyDawg_31 Start: 26992, Stop: 28047, Start Num: 21
Candidate Starts for TyDawg_31:
(Start: 21 @26992 has 70 MA's), (86, 27205), (103, 27241), (127, 27304), (Start: 169 @27376 has 10 MA's), (185, 27406), (198, 27427), (218, 27463), (234, 27499), (246, 27547), (250, 27568), (252, 27574), (256, 27604), (257, 27607), (271, 27655), (333, 27844), (341, 27865), (361, 27919),

Gene: TygerBlood_5 Start: 2724, Stop: 3386, Start Num: 162
Candidate Starts for TygerBlood_5:
(Start: 162 @2724 has 386 MA's), (Start: 229 @2829 has 1 MA's), (319, 3141), (321, 3144), (385, 3369),

Gene: Typha_28 Start: 26025, Stop: 27062, Start Num: 21
Candidate Starts for Typha_28:
(Start: 21 @26025 has 70 MA's), (51, 26148), (71, 26202), (86, 26238), (114, 26301), (134, 26349), (168, 26403), (Start: 169 @26406 has 10 MA's), (250, 26592), (256, 26628), (269, 26670), (275, 26688), (292, 26739),

Gene: Ugenie5_6 Start: 5227, Stop: 5898, Start Num: 162
Candidate Starts for Ugenie5_6:
(Start: 162 @5227 has 386 MA's), (250, 5401), (257, 5437), (321, 5650), (370, 5821),

Gene: Ulysses_5 Start: 2723, Stop: 3388, Start Num: 162
Candidate Starts for Ulysses_5:
(Start: 162 @2723 has 386 MA's), (213, 2804), (253, 2903), (301, 3077),

Gene: UnionJack_5 Start: 3413, Stop: 4054, Start Num: 141
Candidate Starts for UnionJack_5:
(Start: 141 @3413 has 3 MA's), (225, 3521), (249, 3581), (260, 3629), (265, 3635), (273, 3674), (290, 3725), (383, 4031),

Gene: VA6_32 Start: 24568, Stop: 25233, Start Num: 162
Candidate Starts for VA6_32:
(Start: 162 @24568 has 386 MA's), (200, 24631), (236, 24691), (239, 24700), (240, 24703), (354, 25081), (375, 25171), (383, 25213),

Gene: VC3_35 Start: 24556, Stop: 25221, Start Num: 162
Candidate Starts for VC3_35:
(Start: 162 @24556 has 386 MA's), (200, 24619), (236, 24679), (239, 24688), (240, 24691), (260, 24784), (354, 25069), (375, 25159), (383, 25201),

Gene: Veracruz_4 Start: 2764, Stop: 3423, Start Num: 162
Candidate Starts for Veracruz_4:
(Start: 162 @2764 has 386 MA's), (176, 2785), (217, 2851), (250, 2941), (257, 2977), (332, 3223), (363, 3310),

Gene: ViviJ_26 Start: 23840, Stop: 24904, Start Num: 21
Candidate Starts for ViviJ_26:
(Start: 21 @23840 has 70 MA's), (43, 23930), (48, 23957), (71, 24020), (92, 24068), (108, 24107), (117, 24125), (134, 24170), (156, 24209), (185, 24257), (195, 24275), (234, 24350), (251, 24416), (273, 24506), (274, 24509), (275, 24512), (287, 24545), (314, 24644), (315, 24647), (342, 24731), (344, 24743), (380, 24860),

Gene: Vix_5 Start: 2719, Stop: 3351, Start Num: 162
Candidate Starts for Vix_5:
(Start: 162 @2719 has 386 MA's), (252, 2902), (253, 2905), (257, 2932),

Gene: VohminGhazi_8 Start: 4661, Stop: 5359, Start Num: 142
Candidate Starts for VohminGhazi_8:
(Start: 142 @4661 has 48 MA's), (337, 5165), (385, 5351),

Gene: Vordorf_31 Start: 26927, Stop: 27976, Start Num: 23
Candidate Starts for Vordorf_31:
(23, 26927), (Start: 65 @27092 has 1 MA's), (84, 27137), (117, 27215), (175, 27329), (Start: 204 @27392 has 1 MA's), (Start: 229 @27443 has 1 MA's), (240, 27473), (246, 27500), (327, 27776),

Gene: WST1_22 Start: 19043, Stop: 20098, Start Num: 21
Candidate Starts for WST1_22:
(Start: 21 @19043 has 70 MA's), (48, 19160), (118, 19334), (Start: 178 @19451 has 2 MA's), (182, 19457), (251, 19622), (275, 19715), (291, 19763), (298, 19799), (329, 19892),

Gene: WalterMcMickey_5 Start: 2837, Stop: 3484, Start Num: 162
Candidate Starts for WalterMcMickey_5:
(Start: 162 @2837 has 386 MA's), (250, 3014), (288, 3146), (299, 3197), (300, 3200),

Gene: Wander_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for Wander_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Waterfoul_27 Start: 23954, Stop: 25021, Start Num: 21
Candidate Starts for Waterfoul_27:
(Start: 21 @23954 has 70 MA's), (48, 24071), (90, 24176), (92, 24182), (118, 24242), (123, 24257), (134, 24284), (156, 24323), (Start: 159 @24326 has 11 MA's), (168, 24338), (Start: 169 @24341 has 10 MA's), (Start: 171 @24344 has 1 MA's), (Start: 178 @24359 has 2 MA's), (Start: 204 @24404 has 1 MA's), (207, 24410), (234, 24464), (246, 24512), (253, 24542), (263, 24587), (298, 24716), (317, 24770),

Gene: Watson_5 Start: 2890, Stop: 3549, Start Num: 162
Candidate Starts for Watson_5:
(Start: 162 @2890 has 386 MA's), (252, 3073), (257, 3106), (279, 3175), (383, 3529),

Gene: WeiHuaDA_9 Start: 5446, Stop: 6132, Start Num: 162
Candidate Starts for WeiHuaDA_9:

(Start: 162 @5446 has 386 MA's), (251, 5620), (293, 5770), (346, 5941), (373, 6061),

Gene: WheatThin_27 Start: 23315, Stop: 24382, Start Num: 22
Candidate Starts for WheatThin_27:
(Start: 22 @23315 has 14 MA's), (92, 23525), (175, 23693), (240, 23834), (243, 23849), (246, 23861), (251, 23885), (270, 23969), (315, 24116),

Gene: WhoseManz_46 Start: 32658, Stop: 33761, Start Num: 21
Candidate Starts for WhoseManz_46:
(Start: 21 @32658 has 70 MA's), (29, 32691), (Start: 54 @32787 has 2 MA's), (125, 32970), (Start: 229 @33177 has 1 MA's), (234, 33186), (250, 33255), (251, 33258), (270, 33342), (289, 33393), (321, 33495), (348, 33579), (354, 33588), (355, 33591),

Gene: Wiks_8 Start: 4661, Stop: 5359, Start Num: 142
Candidate Starts for Wiks_8:
(Start: 142 @4661 has 48 MA's), (337, 5165), (385, 5351),

Gene: Wilbur_5 Start: 2721, Stop: 3383, Start Num: 162
Candidate Starts for Wilbur_5:
(Start: 162 @2721 has 386 MA's), (Start: 229 @2826 has 1 MA's), (319, 3138), (321, 3141), (385, 3366),

Gene: Wile_5 Start: 2734, Stop: 3396, Start Num: 162
Candidate Starts for Wile_5:
(Start: 162 @2734 has 386 MA's), (Start: 229 @2839 has 1 MA's), (321, 3154),

Gene: Willsammy_22 Start: 21571, Stop: 22605, Start Num: 21
Candidate Starts for Willsammy_22:
(Start: 21 @21571 has 70 MA's), (62, 21727), (64, 21733), (109, 21841), (110, 21844), (118, 21859), (Start: 159 @21946 has 11 MA's), (185, 21991), (Start: 229 @22072 has 1 MA's), (246, 22129), (251, 22153), (279, 22258), (298, 22330), (313, 22375),

Gene: Wizard007_5 Start: 2724, Stop: 3386, Start Num: 162
Candidate Starts for Wizard007_5:
(Start: 162 @2724 has 386 MA's), (Start: 229 @2829 has 1 MA's), (319, 3141), (321, 3144), (385, 3369),

Gene: Woes_30 Start: 38617, Stop: 39519, Start Num: 47
Candidate Starts for Woes_30:
(Start: 47 @38617 has 35 MA's), (103, 38755), (128, 38824), (154, 38872), (194, 38935), (226, 38971), (361, 39391), (383, 39496),

Gene: Wojtek_32 Start: 28749, Stop: 29798, Start Num: 20
Candidate Starts for Wojtek_32:
(Start: 20 @28749 has 31 MA's), (48, 28863), (62, 28905), (84, 28959), (93, 28974), (117, 29037), (Start: 229 @29262 has 1 MA's), (276, 29433), (354, 29661), (369, 29706),

Gene: Wolpertinger_7 Start: 5413, Stop: 6075, Start Num: 162
Candidate Starts for Wolpertinger_7:
(Start: 162 @5413 has 386 MA's), (Start: 204 @5479 has 1 MA's), (242, 5554), (268, 5665), (351, 5905), (362, 5950),

Gene: Wooper_39 Start: 33935, Stop: 34597, Start Num: 178

Candidate Starts for Wooper_39:
(Start: 178 @33935 has 2 MA's), (208, 33992), (227, 34022), (228, 34025), (235, 34043), (273, 34199), (315, 34340), (322, 34355), (331, 34385), (354, 34442), (358, 34454), (385, 34580),

Gene: WorldCup_30 Start: 23978, Stop: 24619, Start Num: 159
Candidate Starts for WorldCup_30:
(122, 23906), (Start: 159 @23978 has 11 MA's), (240, 24113), (250, 24161), (314, 24392), (383, 24599),

Gene: WunderPhul_8 Start: 4661, Stop: 5359, Start Num: 142
Candidate Starts for WunderPhul_8:
(Start: 142 @4661 has 48 MA's), (337, 5165), (385, 5351),

Gene: Xavia_22 Start: 21888, Stop: 22955, Start Num: 21
Candidate Starts for Xavia_22:
(Start: 21 @21888 has 70 MA's), (64, 22050), (78, 22092), (110, 22161), (134, 22221), (Start: 159 @22266 has 11 MA's), (Start: 171 @22284 has 1 MA's), (185, 22311), (Start: 229 @22392 has 1 MA's), (246, 22449), (251, 22473), (297, 22644),

Gene: Xena_5 Start: 2733, Stop: 3395, Start Num: 162
Candidate Starts for Xena_5:
(Start: 162 @2733 has 386 MA's), (Start: 229 @2838 has 1 MA's), (321, 3153),

Gene: Yecey3_33 Start: 24132, Stop: 24764, Start Num: 164
Candidate Starts for Yecey3_33:
(Start: 164 @24132 has 1 MA's), (252, 24318), (257, 24348), (307, 24519), (310, 24525),

Gene: Yeshua_39 Start: 33912, Stop: 34574, Start Num: 178
Candidate Starts for Yeshua_39:
(Start: 178 @33912 has 2 MA's), (208, 33969), (227, 33999), (228, 34002), (235, 34020), (273, 34176), (315, 34317), (322, 34332), (331, 34362), (354, 34419), (358, 34431), (385, 34557),

Gene: Yikes_34 Start: 30133, Stop: 31182, Start Num: 20
Candidate Starts for Yikes_34:
(Start: 20 @30133 has 31 MA's), (48, 30247), (62, 30289), (84, 30343), (93, 30358), (117, 30421), (276, 30817), (319, 30952), (354, 31045),

Gene: YoSam321_5 Start: 2722, Stop: 3384, Start Num: 162
Candidate Starts for YoSam321_5:
(Start: 162 @2722 has 386 MA's), (Start: 229 @2827 has 1 MA's), (319, 3139), (321, 3142), (385, 3367),

Gene: Yokurt_8 Start: 4661, Stop: 5359, Start Num: 142
Candidate Starts for Yokurt_8:
(Start: 142 @4661 has 48 MA's), (337, 5165), (385, 5351),

Gene: Zaka_8 Start: 4661, Stop: 5359, Start Num: 142
Candidate Starts for Zaka_8:
(Start: 142 @4661 has 48 MA's), (337, 5165), (385, 5351),

Gene: Zany_32 Start: 29660, Stop: 30706, Start Num: 20
Candidate Starts for Zany_32:

(Start: 20 @29660 has 31 MA's), (48, 29774), (56, 29795), (84, 29870), (93, 29885), (117, 29948), (140, 30008), (199, 30110), (276, 30344),

Gene: Zarafa_5 Start: 2922, Stop: 3572, Start Num: 162
Candidate Starts for Zarafa_5:
(Start: 162 @2922 has 386 MA's), (252, 3105), (303, 3297), (345, 3417),

Gene: Zetzy_5 Start: 2721, Stop: 3356, Start Num: 162
Candidate Starts for Zetzy_5:
(Start: 162 @2721 has 386 MA's), (257, 2934), (286, 3024),

Gene: Zodiariah_22 Start: 21904, Stop: 22950, Start Num: 21
Candidate Starts for Zodiariah_22:
(Start: 21 @21904 has 70 MA's), (44, 22009), (84, 22114), (Start: 164 @22288 has 1 MA's), (166, 22291), (246, 22474), (290, 22630), (307, 22702), (327, 22750), (328, 22753), (341, 22786),

Gene: Zulu_8 Start: 4661, Stop: 5359, Start Num: 142
Candidate Starts for Zulu_8:
(Start: 142 @4661 has 48 MA's), (248, 4862), (337, 5165), (385, 5351),