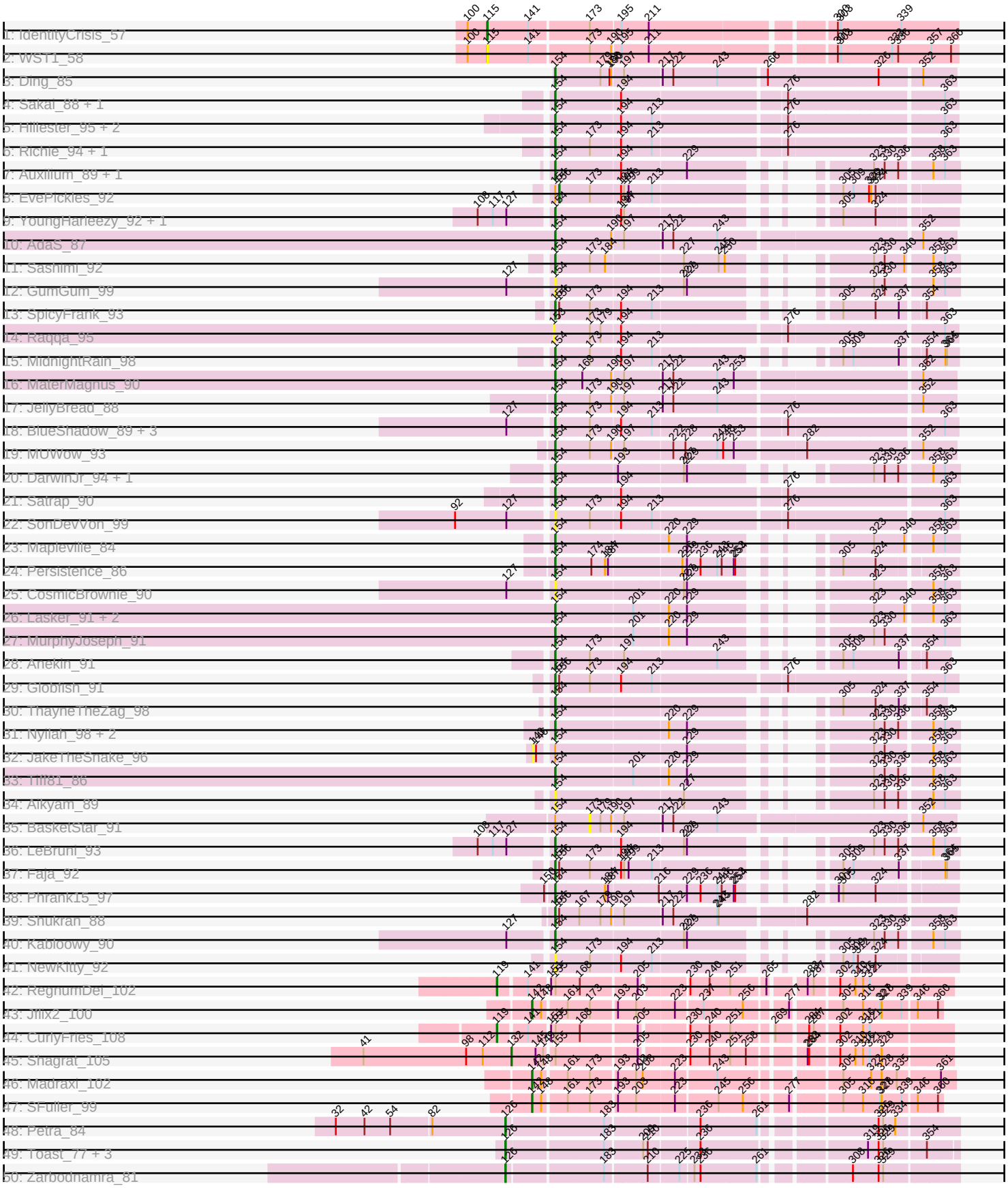
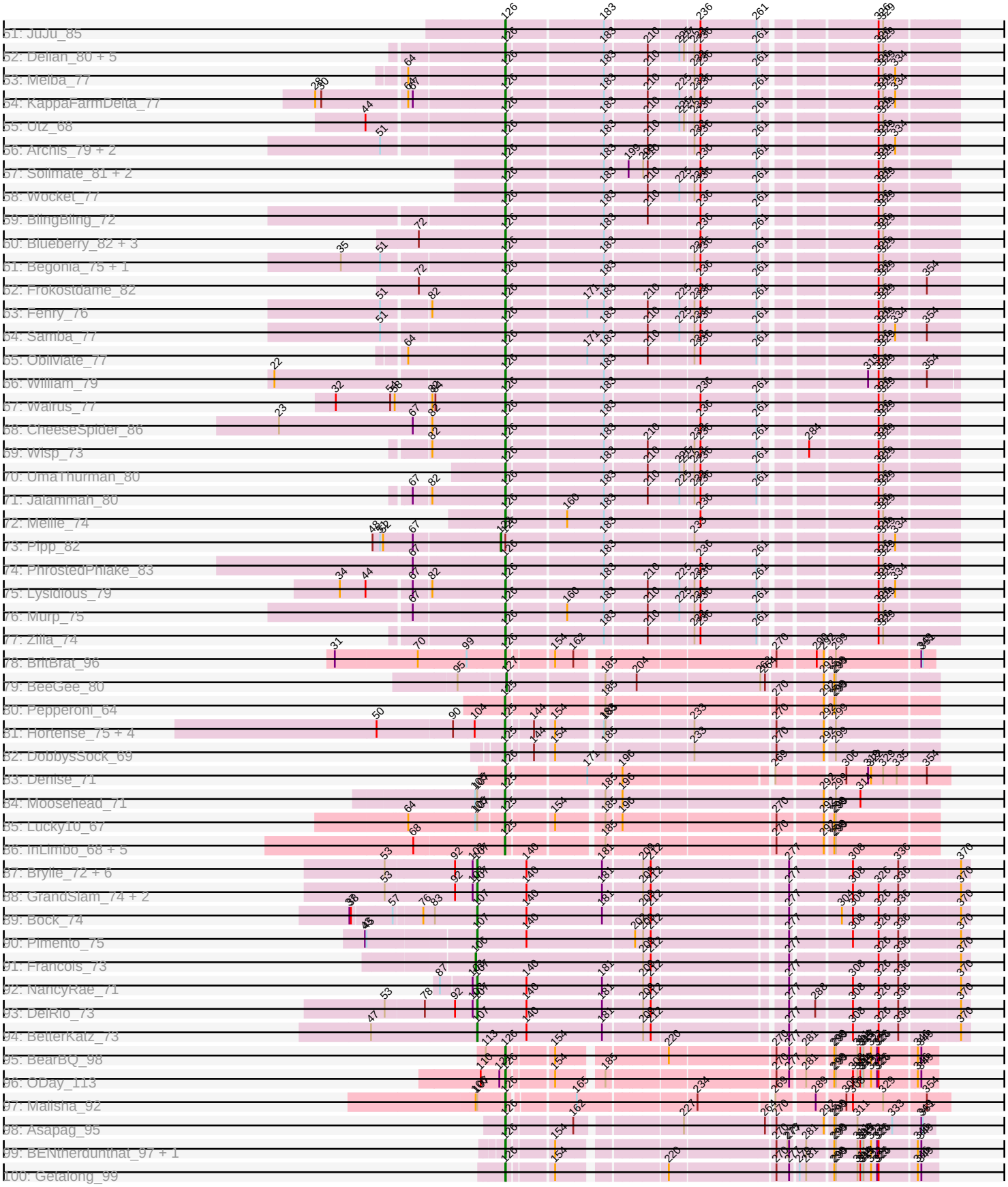
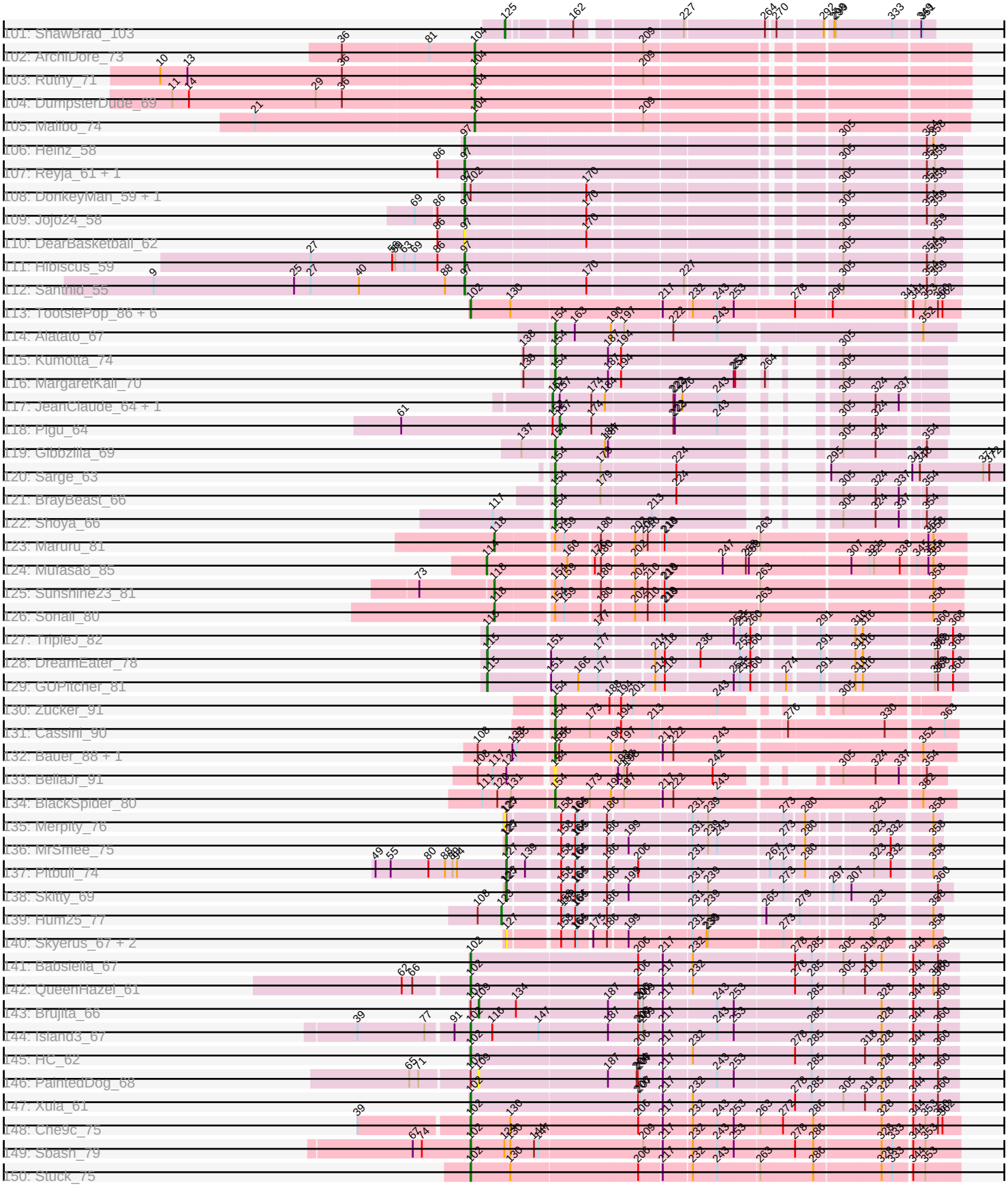
Pham 347191


1: IdentityCrisis_57
2: WST1_58
3: Ding_85
4: Sakai_88 + 1
5: Hillester_95 + 2
6: Richie_94 + 1
7: Auxilium_89 + 1
8: EvePickles_92
9: YoungHaneezy_92 + 1
10: AdaS_87
11: Sashimi_92
12: GumGum_99
13: SpicyFrank_93
14: Raqqa_95
15: MidnightRain_98
16: MaterMagnus_90
17: JellyBread_88
18: BlueShadow_89 + 3
19: MOWow_93
20: DarwinJr_94 + 1
21: Satrap_90
22: SonDevVon_99
23: Mapleville_84
24: Persistence_86
25: CosmicBrownie_90
26: Lasker_91 + 2
27: MurphyJoseph_91
28: Anekin_91
29: Globfish_91
30: ThayneTheZag_98
31: Nyllah_98 + 2
32: JakeTheSnake_96
33: Tiff81_86
34: Aikyam_89
35: BasketStar_91
36: LeBrunt_93
37: Faja_92
38: Phrank15_97
39: Shukran_88
40: Kabloowy_90
41: NewKitty_92
42: RegnumDei_102
43: Jmix2_100
44: CurlyFries_108
45: Shagrat_105
46: Madraxi_102
47: SFuller_99
48: Petra_84
49: Toast_77 + 3
50: Zarboonamra_81

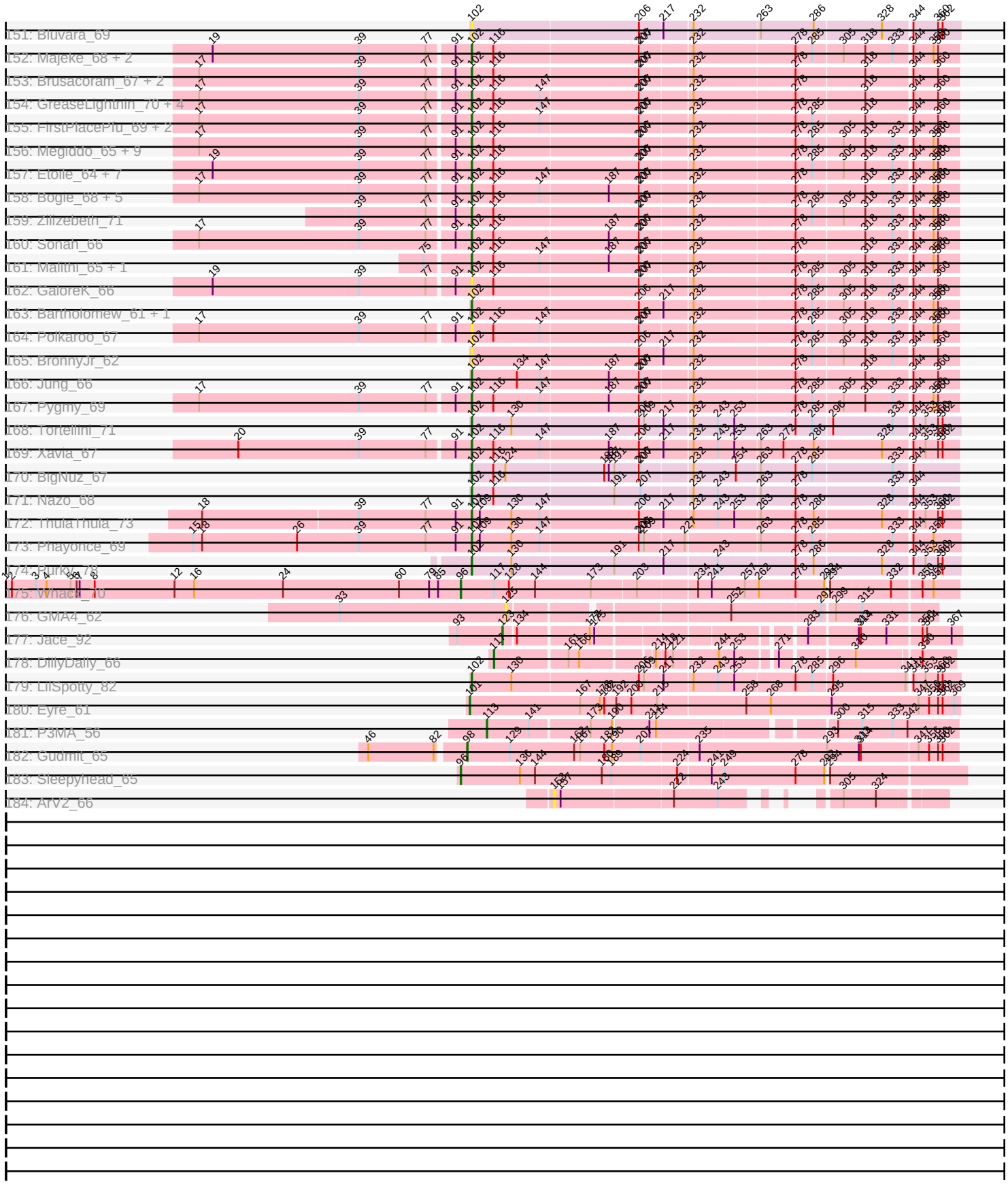
Pham 347191


51: JuJu_85
52: Delian_80 + 5
53: Melba_77
54: KappaFarmDelta_77
55: Otz_68
56: Archis_79 + 2
57: Solimate_81 + 2
58: Wocket_77
59: BlingBling_72
60: Blueberry_82 + 3
61: Begonia_75 + 1
62: Frokostdame_82
63: Fenry_76
64: Samba_77
65: Obliviate_77
66: William_79
67: Walrus_77
68: CheeseSpider_86
69: Wisp_73
70: UmaThurman_80
71: Jalamman_80
72: Mellie_74
73: Pipp_82
74: PhrostedPhlake_83
75: Lysidious_79
76: Murp_75
77: Zilla_74
78: BritBrat_96
79: BeeGee_80
80: Pepperoni_64
81: Hortense_75 + 4
82: DobbysSock_69
83: Denise_71
84: Moosehead_71
85: Lucky10_67
86: InLimbo_68 + 5
87: Brylie_72 + 6
88: GrandSlam_74 + 2
89: Bock_74
90: Pimento_75
91: Francois_73
92: NancyRae_71
93: DelRio_73
94: BetterKatz_73
95: BearBQ_98
96: ODay_113
97: Mallsha_92
98: Asapag_95
99: BENtherdunthat_97 + 1
100: Getalong_99

Pham 347191


I01: ShawBrad_103
I02: ArchiDore_73
I03: Ruthy_71
I04: DumpsterDude_69
I05: Malibo_74
I06: Heinz_58
I07: Reyja_61 + 1
I08: DonkeyMan_59 + 1
I09: Jojo24_58
I10: DearBasketball_62
I11: Hibiscus_59
I12: Santhid_55
I13: TootsiePop_86 + 6
I14: Alatato_67
I15: Kumotta_74
I16: MargaretKail_70
I17: JeanClaude_64 + 1
I18: Pigu_64
I19: Globzilla_69
I20: Sarge_63
I21: BrayBeast_66
I22: Shoya_66
I23: Maruru_81
I24: Mufasa8_85
I25: Sunshine23_81
I26: Sonali_80
I27: TripleJ_82
I28: DreamEater_78
I29: GUPitcher_81
I30: Zucker_91
I31: Cassini_90
I32: Bauer_88 + 1
I33: BellaJr_91
I34: BlackSpider_80
I35: Merpity_76
I36: MrSmee_75
I37: Pitbull_74
I38: Skitty_69
I39: Rum25_77
I40: Skyerus_67 + 2
I41: Babsiella_67
I42: QueenHazel_61
I43: Brujita_66
I44: Island3_67
I45: HC_62
I46: PaintedDog_68
I47: Xula_61
I48: Che9c_75
I49: Sbash_79
I50: Stuck_75

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151: Bluvara_69
152: Majeke_68 + 2
153: Brusacoram_67 + 2
154: GreaseLightnin_70 + 4
155: FirstPlacePlu_69 + 2
156: Megiddo_65 + 9
157: Etoile_64 + 7
158: Bogie_68 + 5
159: Zilizebeth_71
160: Sonah_66
161: Mailthi_65 + 1
162: GaloreK_66
163: Bartholomew_61 + 1
164: Polkaroo_67
165: BronnyJr_62
166: Jung_66
167: Pygmy_69
168: Tortellini_71
169: Xavia_67
170: BigNuz_67
171: Nazo_68
172: ThulaThula_73
173: Phayonce_69
174: Burkey_78
175: Whack!_70
176: GMA4_62
177: Jace_92
178: DillyDally_66
179: LilSpotty_82
180: Eyre_61
181: P3MA_56
182: Gudmit_65
183: Sleepyhead_65
184: Arv2_66

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 347191 Report

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

Pham number 347191 has 277 members, 31 are drafts.

Phages represented in each track:
- Track 1 : IdentityCrisis_57
- Track 2 : WST1_58
- Track 3 : Ding_85
- Track 4 : Sakai_88, Gorpy_89
- Track 5 : Hillester_95, RadFad_96, Lawnathon_95
- Track 6 : Richie_94, BenchScraper_91
- Track 7 : Auxilium_89, Bhageatrice_95
- Track 8 : EvePickles_92
- Track 9 : YoungHarleezy_92, Windest_96
- Track 10 : AdaS_87
- Track 11 : Sashimi_92
- Track 12 : GumGum_99
- Track 13 : SpicyFrank_93
- Track 14 : Raqqa_95
- Track 15 : MidnightRain_98
- Track 16 : MaterMagnus_90
- Track 17 : JellyBread_88
- Track 18 : BlueShadow_89, BillyTP_92, CookieBear_90, Sporco_94
- Track 19 : MUWow_93
- Track 20 : DarwinJr_94, Isolde_92
- Track 21 : Satrap_90
- Track 22 : SonDevVon_99
- Track 23 : Mapleville_84
- Track 24 : Persistence_86
- Track 25 : CosmicBrownie_90
- Track 26 : Lasker_91, Raphaella_91, Vopal_92
- Track 27 : MurphyJoseph_91
- Track 28 : Anekin_91
- Track 29 : Globfish_91
- Track 30 : ThayneTheZag_98
- Track 31 : Nyilah_98, Seahorse_97, Crescenzo_92
- Track 32 : JakeTheSnake_96
- Track 33 : Tiff81_86
- Track 34 : Aikyam_89
- Track 35 : BasketStar_91
- Track 36 : LeBruni_93
- Track 37 : Faja_92

• Track 38 : Phrank15_97
• Track 39 : Shukran_88
• Track 40 : Kabloowy_90
• Track 41 : NewKitty_92
• Track 42 : RegnumDei_102
• Track 43 : Jflix2_100
• Track 44 : CurlyFries_108
• Track 45 : Shagrat_105
• Track 46 : Madraxi_102
• Track 47 : SFuller_99
• Track 48 : Petra_84
• Track 49 : Toast_77, PrincePatrick_79, Fairfaxidum_80, PCoral7_76
• Track 50 : Zarbodnamra_81
• Track 51 : JuJu_85
• Track 52 : Delian_80, Guacamole_75, MintFen_77, Barco_74, CaptainKirk2_77, JasperJr_75
• Track 53 : Melba_77
• Track 54 : KappaFarmDelta_77
• Track 55 : Utz_68
• Track 56 : Archis_79, Hitter_75, ZiggyZoo_78
• Track 57 : Soilmate_81, Blino_79, CarolAnn_78
• Track 58 : Wocket_77
• Track 59 : BlingBling_72
• Track 60 : Blueberry_82, Gambino_85, Azula_83, MissRona_83
• Track 61 : Begonia_75, Malachai_75
• Track 62 : Frokostdame_82
• Track 63 : Fenry_76
• Track 64 : Samba_77
• Track 65 : Obliviate_77
• Track 66 : William_79
• Track 67 : Walrus_77
• Track 68 : CheeseSpider_86
• Track 69 : Wisp_73
• Track 70 : UmaThurman_80
• Track 71 : Jalammah_80
• Track 72 : Mellie_74
• Track 73 : Pipp_82
• Track 74 : PhrostedPhlake_83
• Track 75 : Lysidious_79
• Track 76 : Murp_75
• Track 77 : Zilla_74
• Track 78 : BritBrat_96
• Track 79 : BeeGee_80
• Track 80 : Pepperoni_64
• Track 81 : Hortense_75, Twinkle_74, Adora_72, Howe_75, Shlim410_73
• Track 82 : DobbysSock_69
• Track 83 : Denise_71
• Track 84 : Moosehead_71
• Track 85 : Lucky10_67
• Track 86 : InLimbo_68, OneDirection_65, PhorbesPhlower_69, Kuwabara_89, Morkie_71, Lton_68
• Track 87 : Brylie_72, WheatThin_72, Parada_72, Ayotoya_73, Nadeem_72, Mulch_72, SussRoloMann_73

• Track 88 : GrandSlam_74, Hamood_74, Chop_74
• Track 89 : Bock_74
• Track 90 : Pimento_75
• Track 91 : Francois_73
• Track 92 : NancyRae_71
• Track 93 : DelRio_73
• Track 94 : BetterKatz_73
• Track 95 : BearBQ_98
• Track 96 : ODay_113
• Track 97 : Malisha_92
• Track 98 : Asapag_95
• Track 99 : BENtherdunthat_97, CheeseTouch_105
• Track 100 : Getalong_99
• Track 101 : ShawBrad_103
• Track 102 : ArchiDore_73
• Track 103 : Ruthy_71
• Track 104 : DumpsterDude_69
• Track 105 : Malibo_74
• Track 106 : Heinz_58
• Track 107 : Reyja_61, DinoNuggs_60
• Track 108 : DonkeyMan_59, Tarzan_59
• Track 109 : Jojo24_58
• Track 110 : DearBasketball_62
• Track 111 : Hibiscus_59
• Track 112 : Santhid_55
• Track 113 : TootsiePop_86, Awesomesauce_87, Aloeri_88, Misha28_86, ChickenDinner_87, Piper2020_91, DocMcStuffins_84
• Track 114 : Alatato_67
• Track 115 : Kumotta_74
• Track 116 : MargaretKali_70
• Track 117 : JeanClaude_64, Rooter_70
• Track 118 : Pigu_64
• Track 119 : Gibbzilla_69
• Track 120 : Sarge_63
• Track 121 : BrayBeast_66
• Track 122 : Shoya_66
• Track 123 : Maruru_81
• Track 124 : Mufasa8_85
• Track 125 : Sunshine23_81
• Track 126 : Sonali_80
• Track 127 : TripleJ_82
• Track 128 : DreamEater_78
• Track 129 : GUPitcher_81
• Track 130 : Zucker_91
• Track 131 : Cassini_90
• Track 132 : Bauer_88, Hestia_85
• Track 133 : BellaJr_91
• Track 134 : BlackSpider_80
• Track 135 : Merpity_76
• Track 136 : MrSmee_75
• Track 137 : Pitbull_74
• Track 138 : Skitty_69
• Track 139 : Hum25_77

• Track 140 : Skyerus_67, Neroxid_72, Raya_72
• Track 141 : Babsiella_67
• Track 142 : QueenHazel_61
• Track 143 : Brujita_66
• Track 144 : Island3_67
• Track 145 : HC_62
• Track 146 : PaintedDog_68
• Track 147 : Xula_61
• Track 148 : Che9c_75
• Track 149 : Sbash_79
• Track 150 : Stuck_75
• Track 151 : Bluvara_69
• Track 152 : Majeke_68, Mangethe_68, Phegasus_68
• Track 153 : Brusacoram_67, Thespis_67, Vidya_64
• Track 154 : GreaseLightnin_70, StevieRay_70, Atcoo_67, PeanutPie_70, Bhagsy_71
• Track 155 : FirstPlacePfu_69, Bunnies_71, Ksquared_69
• Track 156 : Megiddo_65, Willsammy_67, Jebeks_66, StressBall_65, Gavriela_65, CactusJack_66, Juniormint_63, Glaske_65, Phalm_66, KilKor_66
• Track 157 : Etoile_64, Chubbello_64, Donovan_65, Kari_65, Arib1_64, Fishburne_64, Techage_66, Langerak_65
• Track 158 : Bogie_68, HUHilltop_68, Camster_66, Shipwreck_68, Necropolis_63, Dynamo_65
• Track 159 : Zilizebeth_71
• Track 160 : Sonah_66
• Track 161 : Malithi_65, Phineas_66
• Track 162 : GaloreK_66
• Track 163 : Bartholomew_61, Venti_63
• Track 164 : Polkaroo_67
• Track 165 : BronnyJr_62
• Track 166 : Jung_66
• Track 167 : Pygmy_69
• Track 168 : Tortellini_71
• Track 169 : Xavia_67
• Track 170 : BigNuz_67
• Track 171 : Nazo_68
• Track 172 : ThulaThula_73
• Track 173 : Phayonce_69
• Track 174 : Purky_78
• Track 175 : Whack_70
• Track 176 : GMA4_62
• Track 177 : Jace_92
• Track 178 : DillyDally_66
• Track 179 : LilSpotty_82
• Track 180 : Eyre_61
• Track 181 : P3MA_56
• Track 182 : Gudmit_65
• Track 183 : Sleepyhead_65
• Track 184 : ArV2_66

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

The start number called the most often in the published annotations is 102, it was called in 67 of the 246 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aloeri_88, Arib1_64, Atcoo_67, Awesomesauce_87, Babsiella_67, Bartholomew_61, Bhagsy_71, BigNuz_67, Bluvara_69, Bogie_68, BronnyJr_62, Brusacoram_67, Bunnies_71, CactusJack_66, Camster_66, Che9c_75, ChickenDinner_87, Chubbello_64, DocMcStuffins_84, Donovan_65, Dynamo_65, Etoile_64, FirstPlacePfu_69, Fishburne_64, GaloreK_66, Gavriela_65, Glaske_65, GreaseLightnin_70, HC_62, HUHilltop_68, Island3_67, Jebeks_66, Jung_66, Juniormint_63, Kari_65, KilKor_66, Ksquared_69, Langerak_65, LilSpotty_82, Majeke_68, Malithi_65, Mangethe_68, Megiddo_65, Misha28_86, Nazo_68, Necropolis_63, PeanutPie_70, Phalm_66, Phayonce_69, Phegasus_68, Phineas_66, Piper2020_91, Polkaroo_67, Purky_78, Pygmy_69, QueenHazel_61, Sbash_79, Shipwreck_68, Sonah_66, StevieRay_70, StressBall_65, Stuck_75, Techage_66, Thespis_67, ThulaThula_73, TootsiePop_86, Tortellini_71, Venti_63, Vidya_64, Willsammy_67, Xavia_67, Xula_61, Zilizebeth_71,

Genes that have the "Most Annotated" start but do not call it:
• Brujita_66, DonkeyMan_59, PaintedDog_68, Tarzan_59,

Genes that do not have the "Most Annotated" start:
• AdaS_87, Adora_72, Aikyam_89, Alatato_67, Anekin_91, ArV2_66, ArchiDore_73, Archis_79, Asapag_95, Auxilium_89, Ayotoya_73, Azula_83, BENtherdunthat_97, Barco_74, BasketStar_91, Bauer_88, BearBQ_98, BeeGee_80, Begonia_75, BellaJr_91, BenchScraper_91, BetterKatz_73, Bhageatrice_95, BillyTP_92, BlackSpider_80, BlingBling_72, Blino_79, BlueShadow_89, Blueberry_82, Bock_74, BrayBeast_66, BritBrat_96, Brylie_72, CaptainKirk2_77, CarolAnn_78, Cassini_90, CheeseSpider_86, CheeseTouch_105, Chop_74, CookieBear_90, CosmicBrownie_90, Crescenzo_92, CurlyFries_108, DarwinJr_94, DearBasketball_62, DelRio_73, Delian_80, Denise_71, DillyDally_66, Ding_85, DinoNuggs_60, DobbysSock_69, DreamEater_78, DumpsterDude_69, EvePickles_92, Eyre_61, Fairfaxidum_80, Faja_92, Fenry_76, Francois_73, Frokostdame_82, GMA4_62, GUPitcher_81, Gambino_85, Getalong_99, Gibbzilla_69, Globfish_91, Gorpy_89, GrandSlam_74, Guacamole_75, Gudmit_65, GumGum_99, Hamood_74, Heinz_58, Hestia_85, Hibiscus_59, Hillester_95, Hitter_75, Hortense_75, Howe_75, Hum25_77, IdentityCrisis_57, InLimbo_68, Isolde_92, Jace_92, JakeTheSnake_96, Jalammah_80, JasperJr_75, JeanClaude_64, JellyBread_88, Jflix2_100, Jojo24_58, JuJu_85, Kabloowy_90, KappaFarmDelta_77, Kumotta_74, Kuwabara_89, Lasker_91, Lawnathon_95, LeBruni_93, Lton_68, Lucky10_67, Lysidious_79, MUWow_93, Madraxi_102, Malachai_75, Malibo_74, Malisha_92, Mapleville_84, MargaretKali_70, Maruru_81, MaterMagnus_90, Melba_77, Mellie_74, Merpity_76, MidnightRain_98, MintFen_77, MissRona_83, Moosehead_71, Morkie_71, MrSmee_75, Mufasa8_85, Mulch_72, Murp_75, MurphyJoseph_91, Nadeem_72, NancyRae_71, Neroxid_72, NewKitty_92, Nyilah_98, ODay_113, Obliviate_77, OneDirection_65, P3MA_56, PCoral7_76, Parada_72, Pepperoni_64, Persistence_86, Petra_84, PhorbesPhlower_69, Phrank15_97, PhrostedPhlake_83, Pigu_64, Pimento_75, Pipp_82, Pitbull_74, PrincePatrick_79, RadFad_96, Raphaella_91, Raqqa_95, Raya_72, RegnumDei_102, Reyja_61, Richie_94, Rooter_70, Ruthy_71, SFuller_99, Sakai_88, Samba_77, Santhid_55, Sarge_63, Sashimi_92, Satrap_90, Seahorse_97, Shagrat_105, ShawBrad_103, Shlim410_73, Shoya_66, Shukran_88, Skitty_69,

Skyerus_67, Sleepyhead_65, Soilmate_81, SonDevVon_99, Sonali_80, SpicyFrank_93, Sporco_94, Sunshine23_81, SussRoloMann_73, ThayneTheZag_98, Tiff81_86, Toast_77, TripleJ_82, Twinkle_74, UmaThurman_80, Utz_68, Vopal_92, WST1_58, Walrus_77, Whack_70, WheatThin_72, William_79, Windest_96, Wisp_73, Wocket_77, YoungHarleezy_92, Zarbodnamra_81, ZiggyZoo_78, Zilla_74, Zucker_91,

Summary by start number:

Start 96:
• Found in 2 of 277 (0.7%) of genes in pham
• Manual Annotations of this start: 2 of 246
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Sleepyhead_65 (singleton), Whack_70 (singleton),

Start 97:
• Found in 9 of 277 (3.2%) of genes in pham
• Manual Annotations of this start: 7 of 246
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DearBasketball_62 (DY), DinoNuggs_60 (DY), DonkeyMan_59 (DY), Heinz_58 (DY), Hibiscus_59 (DY), Jojo24_58 (DY), Reyja_61 (DY), Santhid_55 (DY), Tarzan_59 (DY),

Start 98:
• Found in 2 of 277 (0.7%) of genes in pham
• Manual Annotations of this start: 1 of 246
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Gudmit_65 (singleton),

Start 101:
• Found in 1 of 277 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 246
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Eyre_61 (singleton),

Start 102:
• Found in 77 of 277 (27.8%) of genes in pham
• Manual Annotations of this start: 67 of 246
• Called 94.8% of time when present
• Phage (with cluster) where this start called: Aloeri_88 (F1), Arib1_64 (P1), Atcoo_67 (P1), Awesomesauce_87 (F1), Babsiella_67 (I1), Bartholomew_61 (P1), Bhagsy_71 (P1), BigNuz_67 (P4), Bluvara_69 (I3), Bogie_68 (P1), BronnyJr_62 (P1), Brusacoram_67 (P1), Bunnies_71 (P1), CactusJack_66 (P1), Camster_66 (P1), Che9c_75 (I2), ChickenDinner_87 (F1), Chubbello_64 (P1), DocMcStuffins_84 (F1), Donovan_65 (P1), Dynamo_65 (P1), Etoile_64 (P1), FirstPlacePfu_69 (P1), Fishburne_64 (P1), GaloreK_66 (P1), Gavriela_65 (P1), Glaske_65 (P1), GreaseLightnin_70 (P1), HC_62 (I1), HUHilltop_68 (P1), Island3_67 (I1), Jebeks_66 (P1), Jung_66 (P1), Juniormint_63 (P1), Kari_65 (P1), KilKor_66 (P1), Ksquared_69 (P1), Langerak_65 (P1), LilSpotty_82 (singleton), Majeke_68 (P1), Malithi_65 (P1), Mangethe_68 (P1), Megiddo_65 (P1), Misha28_86 (F1), Nazo_68 (P4), Necropolis_63 (P1), PeanutPie_70 (P1), Phalm_66 (P1), Phayonce_69 (P5), Phegasus_68 (P1), Phineas_66 (P1), Piper2020_91 (F1), Polkaroo_67 (P1),

Purky_78 (P6), Pygmy_69 (P1), QueenHazel_61 (I1), Sbash_79 (I2), Shipwreck_68 (P1), Sonah_66 (P1), StevieRay_70 (P1), StressBall_65 (P1), Stuck_75 (I2), Techage_66 (P1), Thespis_67 (P1), ThulaThula_73 (P5), TootsiePop_86 (F1), Tortellini_71 (P2), Venti_63 (P1), Vidya_64 (P1), Willsammy_67 (P1), Xavia_67 (P3), Xula_61 (I1), Zilizebeth_71 (P1),

Start 104:
• Found in 9 of 277 (3.2%) of genes in pham
• Manual Annotations of this start: 4 of 246
• Called 44.4% of time when present
• Phage (with cluster) where this start called: ArchiDore_73 (DW), DumpsterDude_69 (DW), Malibo_74 (DW), Ruthy_71 (DW),

Start 106:
• Found in 2 of 277 (0.7%) of genes in pham
• Manual Annotations of this start: 1 of 246
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Francois_73 (DI),

Start 107:
• Found in 18 of 277 (6.5%) of genes in pham
• Manual Annotations of this start: 14 of 246
• Called 83.3% of time when present
• Phage (with cluster) where this start called: Ayotoya_73 (DI), BetterKatz_73 (DI), Bock_74 (DI), Brylie_72 (DI), Chop_74 (DI), DelRio_73 (DI), GrandSlam_74 (DI), Hamood_74 (DI), Mulch_72 (DI), Nadeem_72 (DI), NancyRae_71 (DI), Parada_72 (DI), Pimento_75 (DI), SussRoloMann_73 (DI), WheatThin_72 (DI),

Start 109:
• Found in 4 of 277 (1.4%) of genes in pham
• Manual Annotations of this start: 1 of 246
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Brujita_66 (I1), PaintedDog_68 (I1),

Start 113:
• Found in 2 of 277 (0.7%) of genes in pham
• Manual Annotations of this start: 1 of 246
• Called 50.0% of time when present
• Phage (with cluster) where this start called: P3MA_56 (singleton),

Start 114:
• Found in 1 of 277 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 246
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Mufasa8_85 (FG),

Start 115:
• Found in 5 of 277 (1.8%) of genes in pham
• Manual Annotations of this start: 4 of 246
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DreamEater_78 (FJ), GUPitcher_81 (FJ), IdentityCrisis_57 (AJ), TripleJ_82 (FJ), WST1_58 (AJ),

Start 117:
• Found in 7 of 277 (2.5%) of genes in pham
• Manual Annotations of this start: 1 of 246
• Called 14.3% of time when present
• Phage (with cluster) where this start called: DillyDally_66 (singleton),

Start 118:
• Found in 3 of 277 (1.1%) of genes in pham
• Manual Annotations of this start: 3 of 246
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Maruru_81 (FG), Sonali_80 (FG), Sunshine23_81 (FG),

Start 119:
• Found in 2 of 277 (0.7%) of genes in pham
• Manual Annotations of this start: 2 of 246
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CurlyFries_108 (CF), RegnumDei_102 (CF),

Start 122:
• Found in 1 of 277 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 246
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Pipp_82 (CV),

Start 123:
• Found in 2 of 277 (0.7%) of genes in pham
• Manual Annotations of this start: 2 of 246
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Hum25_77 (FQ1), Jace_92 (singleton),

Start 125:
• Found in 20 of 277 (7.2%) of genes in pham
• Manual Annotations of this start: 15 of 246
• Called 90.0% of time when present
• Phage (with cluster) where this start called: Adora_72 (CZ4), DobbysSock_69 (CZ4), GMA4_62 (singleton), Hortense_75 (CZ4), Howe_75 (CZ4), InLimbo_68 (DH), Kuwabara_89 (DN4), Lton_68 (CZ), Lucky10_67 (DH), Merpity_76 (FQ1), Moosehead_71 (CZ6), Morkie_71 (DH), OneDirection_65 (CZ6), Pepperoni_64 (CZ), PhorbesPhlower_69 (DH), ShawBrad_103 (DN1), Shlim410_73 (CZ4), Twinkle_74 (CZ4),

Start 126:
• Found in 55 of 277 (19.9%) of genes in pham
• Manual Annotations of this start: 53 of 246
• Called 98.2% of time when present
• Phage (with cluster) where this start called: Archis_79 (CV), Asapag_95 (DN1), Azula_83 (CV), BENtherdunthat_97 (DN1), Barco_74 (CV), BearBQ_98 (DN), Begonia_75 (CV), BlingBling_72 (CV), Blino_79 (CV), Blueberry_82 (CV), BritBrat_96 (CY2), CaptainKirk2_77 (CV), CarolAnn_78 (CV), CheeseSpider_86 (CV), CheeseTouch_105 (DN1), Delian_80 (CV), Denise_71 (CZ5), Fairfaxidum_80 (CV), Fenry_76 (CV), Frokostdame_82 (CV), Gambino_85 (CV), Getalong_99 (DN1),

Guacamole_75 (CV), Hitter_75 (CV), Jalammah_80 (CV), JasperJr_75 (CV), JuJu_85 (CV), KappaFarmDelta_77 (CV), Lysidious_79 (CV), Malachai_75 (CV), Malisha_92 (DN), Melba_77 (CV), Mellie_74 (CV), MintFen_77 (CV), MissRona_83 (CV), Murp_75 (CV), ODay_113 (DN), Obliviate_77 (CV), PCoral7_76 (CV), Petra_84 (CV), PhrostedPhlake_83 (CV), PrincePatrick_79 (CV), Samba_77 (CV), Soilmate_81 (CV), Toast_77 (CV), UmaThurman_80 (CV), Utz_68 (CV), Walrus_77 (CV), William_79 (CV), Wisp_73 (CV), Wocket_77 (CV), Zarbodnamra_81 (CV), ZiggyZoo_78 (CV), Zilla_74 (CV),

Start 127:
• Found in 20 of 277 (7.2%) of genes in pham
• Manual Annotations of this start: 4 of 246
• Called 35.0% of time when present
• Phage (with cluster) where this start called: BeeGee_80 (CY5), MrSmee_75 (FQ1), Neroxid_72 (FQ2), Pitbull_74 (FQ1), Raya_72 (FQ2), Skitty_69 (FQ1), Skyerus_67 (FQ2),

Start 132:
• Found in 1 of 277 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 246
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Shagrat_105 (CF),

Start 142:
• Found in 3 of 277 (1.1%) of genes in pham
• Manual Annotations of this start: 3 of 246
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Jflix2_100 (CF), Madraxi_102 (CF), SFuller_99 (CF),

Start 143:
• Found in 1 of 277 (0.4%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: JakeTheSnake_96 (AY),

Start 152:
• Found in 3 of 277 (1.1%) of genes in pham
• Manual Annotations of this start: 1 of 246
• Called 66.7% of time when present
• Phage (with cluster) where this start called: JeanClaude_64 (FB), Rooter_70 (FB),

Start 153:
• Found in 2 of 277 (0.7%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ArV2_66 (singleton), Raqqa_95 (AY),

Start 154:
• Found in 81 of 277 (29.2%) of genes in pham
• Manual Annotations of this start: 54 of 246
• Called 76.5% of time when present

• Phage (with cluster) where this start called: AdaS_87 (AY), Aikyam_89 (AY), Alatato_67 (FB), Anekin_91 (AY), Auxilium_89 (AY), Bauer_88 (FN), BellaJr_91 (FN), BenchScraper_91 (AY), Bhageatrice_95 (AY), BillyTP_92 (AY), BlackSpider_80 (FN), BlueShadow_89 (AY), BrayBeast_66 (FB), Cassini_90 (FN), CookieBear_90 (AY), CosmicBrownie_90 (AY), Crescenzo_92 (AY), DarwinJr_94 (AY), Ding_85 (AY), Faja_92 (AY), Gibbzilla_69 (FB), Globfish_91 (AY), Gorpy_89 (AY), GumGum_99 (AY), Hestia_85 (AY), Hillester_95 (AY), Isolde_92 (AY), JellyBread_88 (AY), Kabloowy_90 (AY), Kumotta_74 (FB), Lasker_91 (AY), Lawnathon_95 (AY), LeBruni_93 (AY), MUWow_93 (AY), Mapleville_84 (AY), MargaretKali_70 (FB), MaterMagnus_90 (AY), MidnightRain_98 (AY), MurphyJoseph_91 (AY), NewKitty_92 (AY), Nyilah_98 (AY), Persistence_86 (AY), Phrank15_97 (AY), RadFad_96 (AY), Raphaella_91 (AY), Richie_94 (AY), Sakai_88 (AY), Sarge_63 (FB), Sashimi_92 (AY), Satrap_90 (AY), Seahorse_97 (AY), Shoya_66 (FB), Shukran_88 (AY), SonDevVon_99 (AY), SpicyFrank_93 (AY), Sporco_94 (AY), ThayneTheZag_98 (AY), Tiff81_86 (AY), Vopal_92 (AY), Windest_96 (AY), YoungHarleezy_92 (AY), Zucker_91 (FN),

Start 156:
• Found in 7 of 277 (2.5%) of genes in pham
• Manual Annotations of this start: 1 of 246
• Called 14.3% of time when present
• Phage (with cluster) where this start called: EvePickles_92 (AY),

Start 157:
• Found in 4 of 277 (1.4%) of genes in pham
• Manual Annotations of this start: 1 of 246
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Pigu_64 (FB),

Start 173:
• Found in 28 of 277 (10.1%) of genes in pham
• No Manual Annotations of this start.
• Called 3.6% of time when present
• Phage (with cluster) where this start called: BasketStar_91 (AY),

Summary by clusters:

There are 34 clusters represented in this pham: DN, singleton, DH, DI, DY, CZ6, CZ4, CZ5, FB, FG, DW, FJ, FN, CY5, I1, I3, I2, DN4, DN1, P2, P3, CY2, P1, P6, P4, P5, AJ, CF, CZ, AY, CV, F1, FQ2, FQ1,

Info for manual annotations of cluster AJ:
•Start number 115 was manually annotated 1 time for cluster AJ.

Info for manual annotations of cluster AY:
•Start number 154 was manually annotated 43 times for cluster AY.
•Start number 156 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster CF:
•Start number 119 was manually annotated 2 times for cluster CF.
•Start number 132 was manually annotated 1 time for cluster CF.
•Start number 142 was manually annotated 3 times for cluster CF.

Info for manual annotations of cluster CV:
•Start number 122 was manually annotated 1 time for cluster CV.
•Start number 126 was manually annotated 44 times for cluster CV.

Info for manual annotations of cluster CY2:
•Start number 126 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster CY5:
•Start number 127 was manually annotated 1 time for cluster CY5.

Info for manual annotations of cluster CZ:
•Start number 125 was manually annotated 2 times for cluster CZ.

Info for manual annotations of cluster CZ4:
•Start number 125 was manually annotated 6 times for cluster CZ4.

Info for manual annotations of cluster CZ5:
•Start number 126 was manually annotated 1 time for cluster CZ5.

Info for manual annotations of cluster CZ6:
•Start number 125 was manually annotated 2 times for cluster CZ6.

Info for manual annotations of cluster DH:
•Start number 125 was manually annotated 3 times for cluster DH.

Info for manual annotations of cluster DI:
•Start number 106 was manually annotated 1 time for cluster DI.
•Start number 107 was manually annotated 14 times for cluster DI.

Info for manual annotations of cluster DN:
•Start number 126 was manually annotated 3 times for cluster DN.

Info for manual annotations of cluster DN1:
•Start number 125 was manually annotated 1 time for cluster DN1.
•Start number 126 was manually annotated 4 times for cluster DN1.

Info for manual annotations of cluster DN4:
•Start number 125 was manually annotated 1 time for cluster DN4.

Info for manual annotations of cluster DW:
•Start number 104 was manually annotated 4 times for cluster DW.

Info for manual annotations of cluster DY:
•Start number 97 was manually annotated 7 times for cluster DY.

Info for manual annotations of cluster F1:
•Start number 102 was manually annotated 7 times for cluster F1.

Info for manual annotations of cluster FB:
•Start number 152 was manually annotated 1 time for cluster FB.
•Start number 154 was manually annotated 7 times for cluster FB.
•Start number 157 was manually annotated 1 time for cluster FB.

Info for manual annotations of cluster FG:
•Start number 114 was manually annotated 1 time for cluster FG.
•Start number 118 was manually annotated 3 times for cluster FG.

Info for manual annotations of cluster FJ:
•Start number 115 was manually annotated 3 times for cluster FJ.

Info for manual annotations of cluster FN:
•Start number 154 was manually annotated 4 times for cluster FN.

Info for manual annotations of cluster FQ1:
•Start number 123 was manually annotated 1 time for cluster FQ1.
•Start number 127 was manually annotated 3 times for cluster FQ1.

Info for manual annotations of cluster I1:
•Start number 102 was manually annotated 5 times for cluster I1.
•Start number 109 was manually annotated 1 time for cluster I1.

Info for manual annotations of cluster I2:
•Start number 102 was manually annotated 3 times for cluster I2.

Info for manual annotations of cluster P1:
•Start number 102 was manually annotated 44 times for cluster P1.

Info for manual annotations of cluster P2:
•Start number 102 was manually annotated 1 time for cluster P2.

Info for manual annotations of cluster P3:
•Start number 102 was manually annotated 1 time for cluster P3.

Info for manual annotations of cluster P4:
•Start number 102 was manually annotated 2 times for cluster P4.

Info for manual annotations of cluster P5:
•Start number 102 was manually annotated 2 times for cluster P5.

Info for manual annotations of cluster P6:
•Start number 102 was manually annotated 1 time for cluster P6.

Gene Information:

Gene: AdaS_87 Start: 47624, Stop: 48373, Start Num: 154
Candidate Starts for AdaS_87:
(Start: 154 @47624 has 54 MA's), (190, 47732), (197, 47753), (217, 47822), (222, 47843), (243, 47930), (352, 48308),

Gene: Adora_72 Start: 48969, Stop: 49706, Start Num: 125
Candidate Starts for Adora_72:

(50, 48723), (90, 48870), (Start: 104 @48912 has 4 MA's), (Start: 125 @48969 has 15 MA's), (144, 49011), (Start: 154 @49044 has 54 MA's), (183, 49125), (185, 49128), (233, 49275), (270, 49425), (292, 49506), (299, 49518),

Gene: Aikyam_89 Start: 48484, Stop: 49107, Start Num: 154
Candidate Starts for Aikyam_89:
(Start: 154 @48484 has 54 MA's), (227, 48724), (323, 48955), (330, 48976), (336, 49000), (358, 49057), (363, 49078),

Gene: Alatato_67 Start: 36915, Stop: 37664, Start Num: 154
Candidate Starts for Alatato_67:
(Start: 154 @36915 has 54 MA's), (163, 36951), (190, 37023), (197, 37044), (222, 37134), (243, 37221), (352, 37599),

Gene: Aloeri_88 Start: 51883, Stop: 52788, Start Num: 102
Candidate Starts for Aloeri_88:
(Start: 102 @51883 has 67 MA's), (130, 51961), (217, 52246), (232, 52297), (243, 52345), (253, 52375), (278, 52489), (296, 52555), (341, 52693), (344, 52699), (353, 52723), (360, 52747), (362, 52756),

Gene: Anekin_91 Start: 50412, Stop: 51011, Start Num: 154
Candidate Starts for Anekin_91:
(Start: 154 @50412 has 54 MA's), (173, 50478), (197, 50541), (243, 50718), (305, 50826), (309, 50844), (337, 50928), (354, 50967),

Gene: ArV2_66 Start: 35893, Stop: 36489, Start Num: 153
Candidate Starts for ArV2_66:
(153, 35893), (Start: 157 @35905 has 1 MA's), (222, 36115), (243, 36202), (305, 36310), (324, 36370),

Gene: ArchiDore_73 Start: 49910, Stop: 50791, Start Num: 104
Candidate Starts for ArchiDore_73:
(36, 49658), (81, 49826), (Start: 104 @49910 has 4 MA's), (209, 50222),

Gene: Archis_79 Start: 46629, Stop: 47405, Start Num: 126
Candidate Starts for Archis_79:
(51, 46410), (Start: 126 @46629 has 53 MA's), (183, 46806), (210, 46878), (233, 46956), (236, 46968), (261, 47076), (326, 47262), (329, 47271), (334, 47295),

Gene: Arib1_64 Start: 41089, Stop: 41991, Start Num: 102
Candidate Starts for Arib1_64:
(19, 40597), (39, 40885), (77, 41014), (91, 41059), (Start: 102 @41089 has 67 MA's), (116, 41131), (206, 41410), (207, 41413), (232, 41503), (278, 41695), (285, 41728), (305, 41782), (318, 41824), (333, 41875), (344, 41905), (358, 41944), (360, 41953),

Gene: Asapag_95 Start: 52545, Stop: 53270, Start Num: 126
Candidate Starts for Asapag_95:
(Start: 126 @52545 has 53 MA's), (162, 52656), (227, 52833), (264, 52983), (270, 52998), (292, 53079), (298, 53088), (299, 53091), (311, 53133), (333, 53199), (349, 53244), (351, 53247),

Gene: Atcoo_67 Start: 44457, Stop: 45359, Start Num: 102
Candidate Starts for Atcoo_67:
(17, 43938), (39, 44253), (77, 44382), (91, 44427), (Start: 102 @44457 has 67 MA's), (116, 44499), (147, 44589), (206, 44778), (207, 44781), (232, 44871), (278, 45063), (318, 45192), (344, 45273),

(360, 45321),

Gene: Auxilium_89 Start: 47474, Stop: 48097, Start Num: 154
Candidate Starts for Auxilium_89:
(Start: 154 @47474 has 54 MA's), (194, 47597), (229, 47720), (323, 47945), (330, 47966), (336, 47990), (358, 48047), (363, 48068),

Gene: Awesomesauce_87 Start: 52119, Stop: 53024, Start Num: 102
Candidate Starts for Awesomesauce_87:
(Start: 102 @52119 has 67 MA's), (130, 52197), (217, 52482), (232, 52533), (243, 52581), (253, 52611), (278, 52725), (296, 52791), (341, 52929), (344, 52935), (353, 52959), (360, 52983), (362, 52992),

Gene: Ayotoya_73 Start: 49136, Stop: 50011, Start Num: 107
Candidate Starts for Ayotoya_73:
(53, 48965), (92, 49097), (103, 49130), (Start: 107 @49136 has 14 MA's), (140, 49229), (181, 49376), (209, 49445), (212, 49460), (277, 49700), (308, 49799), (336, 49886), (370, 49994),

Gene: Azula_83 Start: 51089, Stop: 51874, Start Num: 126
Candidate Starts for Azula_83:
(72, 50924), (Start: 126 @51089 has 53 MA's), (183, 51272), (236, 51434), (261, 51542), (326, 51728), (329, 51737),

Gene: BENtherdunthat_97 Start: 52077, Stop: 52805, Start Num: 126
Candidate Starts for BENtherdunthat_97:
(Start: 126 @52077 has 53 MA's), (Start: 154 @52152 has 54 MA's), (270, 52527), (275, 52548), (277, 52551), (281, 52575), (298, 52617), (299, 52620), (311, 52662), (314, 52665), (315, 52668), (317, 52671), (322, 52686), (325, 52698), (326, 52701), (346, 52767), (349, 52773),

Gene: Babsiella_67 Start: 42425, Stop: 43327, Start Num: 102
Candidate Starts for Babsiella_67:
(Start: 102 @42425 has 67 MA's), (206, 42746), (217, 42788), (232, 42839), (278, 43031), (285, 43064), (305, 43118), (318, 43160), (328, 43190), (344, 43241), (360, 43289),

Gene: Barco_74 Start: 46443, Stop: 47219, Start Num: 126
Candidate Starts for Barco_74:
(Start: 126 @46443 has 53 MA's), (183, 46620), (210, 46692), (225, 46749), (227, 46755), (233, 46770), (236, 46782), (261, 46890), (326, 47076), (329, 47085),

Gene: Bartholomew_61 Start: 40452, Stop: 41354, Start Num: 102
Candidate Starts for Bartholomew_61:
(Start: 102 @40452 has 67 MA's), (206, 40773), (217, 40815), (232, 40866), (278, 41058), (285, 41091), (305, 41145), (318, 41187), (333, 41238), (344, 41268), (358, 41307), (360, 41316),

Gene: BasketStar_91 Start: 50098, Stop: 50781, Start Num: 173
Candidate Starts for BasketStar_91:
(Start: 154 @50032 has 54 MA's), (173, 50098), (179, 50119), (190, 50140), (197, 50161), (217, 50230), (222, 50251), (243, 50338), (352, 50716),

Gene: Bauer_88 Start: 46653, Stop: 47402, Start Num: 154
Candidate Starts for Bauer_88:
(108, 46506), (133, 46575), (135, 46584), (Start: 154 @46653 has 54 MA's), (Start: 156 @46659 has 1 MA's), (190, 46761), (197, 46782), (217, 46851), (222, 46872), (243, 46959), (352, 47337),

Gene: BearBQ_98 Start: 53192, Stop: 53920, Start Num: 126
Candidate Starts for BearBQ_98:
(Start: 113 @53159 has 1 MA's), (Start: 126 @53192 has 53 MA's), (Start: 154 @53267 has 54 MA's), (220, 53450), (270, 53642), (277, 53666), (281, 53690), (298, 53732), (299, 53735), (311, 53777), (314, 53780), (315, 53783), (317, 53786), (322, 53801), (325, 53813), (326, 53816), (346, 53882), (349, 53888),

Gene: BeeGee_80 Start: 50088, Stop: 50837, Start Num: 127
Candidate Starts for BeeGee_80:
(95, 49998), (Start: 127 @50088 has 4 MA's), (185, 50253), (204, 50301), (263, 50532), (264, 50541), (292, 50637), (298, 50646), (299, 50649),

Gene: Begonia_75 Start: 49240, Stop: 50016, Start Num: 126
Candidate Starts for Begonia_75:
(35, 48943), (51, 49021), (Start: 126 @49240 has 53 MA's), (183, 49417), (233, 49567), (236, 49579), (261, 49687), (326, 49873), (329, 49882),

Gene: BellaJr_91 Start: 50323, Stop: 50910, Start Num: 154
Candidate Starts for BellaJr_91:
(108, 50185), (Start: 117 @50215 has 1 MA's), (Start: 127 @50242 has 4 MA's), (Start: 154 @50323 has 54 MA's), (193, 50440), (197, 50452), (198, 50458), (242, 50617), (305, 50734), (324, 50794), (337, 50836), (354, 50875),

Gene: BenchScraper_91 Start: 48422, Stop: 49156, Start Num: 154
Candidate Starts for BenchScraper_91:
(Start: 154 @48422 has 54 MA's), (173, 48488), (194, 48545), (213, 48605), (276, 48845), (363, 49130),

Gene: BetterKatz_73 Start: 48918, Stop: 49793, Start Num: 107
Candidate Starts for BetterKatz_73:
(47, 48711), (Start: 107 @48918 has 14 MA's), (140, 49011), (181, 49158), (209, 49227), (212, 49242), (277, 49482), (308, 49581), (326, 49629), (336, 49668), (370, 49776),

Gene: Bhageatrice_95 Start: 52700, Stop: 53323, Start Num: 154
Candidate Starts for Bhageatrice_95:
(Start: 154 @52700 has 54 MA's), (194, 52823), (229, 52946), (323, 53171), (330, 53192), (336, 53216), (358, 53273), (363, 53294),

Gene: Bhagsy_71 Start: 43574, Stop: 44476, Start Num: 102
Candidate Starts for Bhagsy_71:
(17, 43055), (39, 43370), (77, 43499), (91, 43544), (Start: 102 @43574 has 67 MA's), (116, 43616), (147, 43706), (206, 43895), (207, 43898), (232, 43988), (278, 44180), (318, 44309), (344, 44390), (360, 44438),

Gene: BigNuz_67 Start: 43296, Stop: 44198, Start Num: 102
Candidate Starts for BigNuz_67:
(Start: 102 @43296 has 67 MA's), (116, 43338), (124, 43362), (182, 43551), (187, 43560), (191, 43569), (206, 43617), (207, 43620), (232, 43710), (254, 43791), (263, 43836), (278, 43902), (285, 43935), (333, 44082), (344, 44112),

Gene: BillyTP_92 Start: 50623, Stop: 51357, Start Num: 154
Candidate Starts for BillyTP_92:

(Start: 127 @50542 has 4 MA's), (Start: 154 @50623 has 54 MA's), (173, 50689), (194, 50746), (213, 50806), (276, 51046), (363, 51331),

Gene: BlackSpider_80 Start: 47899, Stop: 48648, Start Num: 154
Candidate Starts for BlackSpider_80:
(111, 47761), (120, 47791), (131, 47818), (Start: 154 @47899 has 54 MA's), (173, 47965), (190, 48007), (197, 48028), (217, 48097), (222, 48118), (243, 48205), (352, 48583),

Gene: BlingBling_72 Start: 46215, Stop: 46991, Start Num: 126
Candidate Starts for BlingBling_72:
(Start: 126 @46215 has 53 MA's), (183, 46392), (210, 46464), (236, 46554), (261, 46662), (326, 46848), (329, 46857),

Gene: Blino_79 Start: 52044, Stop: 52805, Start Num: 126
Candidate Starts for Blino_79:
(Start: 126 @52044 has 53 MA's), (183, 52221), (199, 52260), (209, 52284), (210, 52293), (236, 52383), (261, 52491), (326, 52677), (329, 52686),

Gene: BlueShadow_89 Start: 50216, Stop: 50950, Start Num: 154
Candidate Starts for BlueShadow_89:
(Start: 127 @50135 has 4 MA's), (Start: 154 @50216 has 54 MA's), (173, 50282), (194, 50339), (213, 50399), (276, 50639), (363, 50924),

Gene: Blueberry_82 Start: 51089, Stop: 51874, Start Num: 126
Candidate Starts for Blueberry_82:
(72, 50924), (Start: 126 @51089 has 53 MA's), (183, 51272), (236, 51434), (261, 51542), (326, 51728), (329, 51737),

Gene: Bluvara_69 Start: 45132, Stop: 46037, Start Num: 102
Candidate Starts for Bluvara_69:
(Start: 102 @45132 has 67 MA's), (206, 45453), (217, 45495), (232, 45546), (263, 45672), (286, 45774), (328, 45897), (344, 45948), (360, 45996), (362, 46005),

Gene: Bock_74 Start: 48502, Stop: 49377, Start Num: 107
Candidate Starts for Bock_74:
(37, 48271), (38, 48274), (57, 48349), (76, 48400), (83, 48421), (Start: 107 @48502 has 14 MA's), (140, 48595), (181, 48742), (209, 48811), (212, 48826), (277, 49066), (304, 49144), (308, 49165), (326, 49213), (336, 49252), (370, 49360),

Gene: Bogie_68 Start: 43439, Stop: 44341, Start Num: 102
Candidate Starts for Bogie_68:
(17, 42920), (39, 43235), (77, 43364), (91, 43409), (Start: 102 @43439 has 67 MA's), (116, 43481), (147, 43571), (187, 43703), (206, 43760), (207, 43763), (232, 43853), (278, 44045), (318, 44174), (333, 44225), (344, 44255), (358, 44294), (360, 44303),

Gene: BrayBeast_66 Start: 36485, Stop: 37072, Start Num: 154
Candidate Starts for BrayBeast_66:
(Start: 154 @36485 has 54 MA's), (179, 36572), (224, 36710), (305, 36896), (324, 36956), (337, 36998), (354, 37037),

Gene: BritBrat_96 Start: 54041, Stop: 54766, Start Num: 126
Candidate Starts for BritBrat_96:

(31, 53711), (70, 53873), (99, 53969), (Start: 126 @54041 has 53 MA's), (Start: 154 @54116 has 54 MA's), (162, 54152), (270, 54494), (290, 54563), (292, 54575), (299, 54587), (349, 54740), (351, 54743),

Gene: BronnyJr_62 Start: 42377, Stop: 43279, Start Num: 102
Candidate Starts for BronnyJr_62:
(Start: 102 @42377 has 67 MA's), (206, 42698), (217, 42740), (232, 42791), (278, 42983), (285, 43016), (305, 43070), (318, 43112), (333, 43163), (344, 43193), (360, 43241),

Gene: Brujita_66 Start: 42486, Stop: 43373, Start Num: 109
Candidate Starts for Brujita_66:
(Start: 102 @42471 has 67 MA's), (Start: 109 @42486 has 1 MA's), (134, 42558), (187, 42735), (206, 42792), (207, 42795), (209, 42801), (217, 42834), (243, 42933), (253, 42963), (285, 43110), (328, 43236), (344, 43287), (360, 43335),

Gene: Brusacoram_67 Start: 43000, Stop: 43902, Start Num: 102
Candidate Starts for Brusacoram_67:
(17, 42481), (39, 42796), (77, 42925), (91, 42970), (Start: 102 @43000 has 67 MA's), (116, 43042), (206, 43321), (207, 43324), (232, 43414), (278, 43606), (318, 43735), (344, 43816), (360, 43864),

Gene: Brylie_72 Start: 48152, Stop: 49027, Start Num: 107
Candidate Starts for Brylie_72:
(53, 47981), (92, 48113), (103, 48146), (Start: 107 @48152 has 14 MA's), (140, 48245), (181, 48392), (209, 48461), (212, 48476), (277, 48716), (308, 48815), (336, 48902), (370, 49010),

Gene: Bunnies_71 Start: 44201, Stop: 45103, Start Num: 102
Candidate Starts for Bunnies_71:
(17, 43682), (39, 43997), (77, 44126), (91, 44171), (Start: 102 @44201 has 67 MA's), (116, 44243), (147, 44333), (206, 44522), (207, 44525), (232, 44615), (278, 44807), (285, 44840), (318, 44936), (344, 45017), (360, 45065),

Gene: CactusJack_66 Start: 43072, Stop: 43974, Start Num: 102
Candidate Starts for CactusJack_66:
(17, 42553), (39, 42868), (77, 42997), (91, 43042), (Start: 102 @43072 has 67 MA's), (116, 43114), (206, 43393), (207, 43396), (232, 43486), (278, 43678), (285, 43711), (305, 43765), (318, 43807), (333, 43858), (344, 43888), (358, 43927), (360, 43936),

Gene: Camster_66 Start: 41900, Stop: 42802, Start Num: 102
Candidate Starts for Camster_66:
(17, 41381), (39, 41696), (77, 41825), (91, 41870), (Start: 102 @41900 has 67 MA's), (116, 41942), (147, 42032), (187, 42164), (206, 42221), (207, 42224), (232, 42314), (278, 42506), (318, 42635), (333, 42686), (344, 42716), (358, 42755), (360, 42764),

Gene: CaptainKirk2_77 Start: 46000, Stop: 46776, Start Num: 126
Candidate Starts for CaptainKirk2_77:
(Start: 126 @46000 has 53 MA's), (183, 46177), (210, 46249), (225, 46306), (227, 46312), (233, 46327), (236, 46339), (261, 46447), (326, 46633), (329, 46642),

Gene: CarolAnn_78 Start: 52043, Stop: 52804, Start Num: 126
Candidate Starts for CarolAnn_78:
(Start: 126 @52043 has 53 MA's), (183, 52220), (199, 52259), (209, 52283), (210, 52292), (236, 52382), (261, 52490), (326, 52676), (329, 52685),

Gene: Cassini_90 Start: 49806, Stop: 50540, Start Num: 154
Candidate Starts for Cassini_90:
(Start: 154 @49806 has 54 MA's), (173, 49872), (194, 49929), (213, 49989), (276, 50229), (330, 50412), (363, 50514),

Gene: Che9c_75 Start: 52152, Stop: 53057, Start Num: 102
Candidate Starts for Che9c_75:
(39, 51948), (Start: 102 @52152 has 67 MA's), (130, 52230), (206, 52473), (217, 52515), (232, 52566), (243, 52614), (253, 52644), (263, 52692), (272, 52734), (286, 52794), (328, 52917), (344, 52968), (353, 52992), (360, 53016), (362, 53025),

Gene: CheeseSpider_86 Start: 50655, Stop: 51434, Start Num: 126
Candidate Starts for CheeseSpider_86:
(23, 50226), (67, 50490), (82, 50523), (Start: 126 @50655 has 53 MA's), (183, 50832), (236, 50994), (261, 51102), (326, 51288), (329, 51297),

Gene: CheeseTouch_105 Start: 51190, Stop: 51918, Start Num: 126
Candidate Starts for CheeseTouch_105:
(Start: 126 @51190 has 53 MA's), (Start: 154 @51265 has 54 MA's), (270, 51640), (275, 51661), (277, 51664), (281, 51688), (298, 51730), (299, 51733), (311, 51775), (314, 51778), (315, 51781), (317, 51784), (322, 51799), (325, 51811), (326, 51814), (346, 51880), (349, 51886),

Gene: ChickenDinner_87 Start: 51883, Stop: 52788, Start Num: 102
Candidate Starts for ChickenDinner_87:
(Start: 102 @51883 has 67 MA's), (130, 51961), (217, 52246), (232, 52297), (243, 52345), (253, 52375), (278, 52489), (296, 52555), (341, 52693), (344, 52699), (353, 52723), (360, 52747), (362, 52756),

Gene: Chop_74 Start: 49201, Stop: 50076, Start Num: 107
Candidate Starts for Chop_74:
(53, 49030), (92, 49162), (103, 49195), (Start: 107 @49201 has 14 MA's), (140, 49294), (181, 49441), (209, 49510), (212, 49525), (277, 49765), (308, 49864), (326, 49912), (336, 49951), (370, 50059),

Gene: Chubbello_64 Start: 41094, Stop: 41996, Start Num: 102
Candidate Starts for Chubbello_64:
(19, 40602), (39, 40890), (77, 41019), (91, 41064), (Start: 102 @41094 has 67 MA's), (116, 41136), (206, 41415), (207, 41418), (232, 41508), (278, 41700), (285, 41733), (305, 41787), (318, 41829), (333, 41880), (344, 41910), (358, 41949), (360, 41958),

Gene: CookieBear_90 Start: 49831, Stop: 50565, Start Num: 154
Candidate Starts for CookieBear_90:
(Start: 127 @49750 has 4 MA's), (Start: 154 @49831 has 54 MA's), (173, 49897), (194, 49954), (213, 50014), (276, 50254), (363, 50539),

Gene: CosmicBrownie_90 Start: 48881, Stop: 49504, Start Num: 154
Candidate Starts for CosmicBrownie_90:
(Start: 127 @48800 has 4 MA's), (Start: 154 @48881 has 54 MA's), (227, 49121), (229, 49127), (323, 49352), (358, 49454), (363, 49475),

Gene: Crescenzo_92 Start: 51426, Stop: 52049, Start Num: 154
Candidate Starts for Crescenzo_92:
(Start: 154 @51426 has 54 MA's), (220, 51636), (229, 51672), (323, 51897), (330, 51918), (336, 51942), (358, 51999), (363, 52020),

Gene: CurlyFries_108 Start: 55209, Stop: 55973, Start Num: 119
Candidate Starts for CurlyFries_108:
(Start: 119 @55209 has 2 MA's), (141, 55257), (151, 55293), (155, 55302), (168, 55350), (205, 55452), (230, 55533), (240, 55569), (251, 55605), (269, 55668), (284, 55719), (287, 55728), (302, 55767), (316, 55809), (321, 55821),

Gene: DarwinJr_94 Start: 51555, Stop: 52178, Start Num: 154
Candidate Starts for DarwinJr_94:
(Start: 154 @51555 has 54 MA's), (193, 51672), (227, 51795), (229, 51801), (323, 52026), (330, 52047), (336, 52071), (358, 52128), (363, 52149),

Gene: DearBasketball_62 Start: 39454, Stop: 40326, Start Num: 97
Candidate Starts for DearBasketball_62:
(86, 39400), (Start: 97 @39454 has 7 MA's), (170, 39679), (305, 40108), (359, 40273),

Gene: DelRio_73 Start: 49243, Stop: 50118, Start Num: 107
Candidate Starts for DelRio_73:
(53, 49072), (78, 49147), (92, 49204), (103, 49237), (Start: 107 @49243 has 14 MA's), (140, 49336), (181, 49483), (209, 49552), (212, 49567), (277, 49807), (288, 49846), (308, 49906), (326, 49954), (336, 49993), (370, 50101),

Gene: Delian_80 Start: 45998, Stop: 46774, Start Num: 126
Candidate Starts for Delian_80:
(Start: 126 @45998 has 53 MA's), (183, 46175), (210, 46247), (225, 46304), (227, 46310), (233, 46325), (236, 46337), (261, 46445), (326, 46631), (329, 46640),

Gene: Denise_71 Start: 41520, Stop: 42272, Start Num: 126
Candidate Starts for Denise_71:
(Start: 126 @41520 has 53 MA's), (171, 41658), (196, 41715), (269, 41973), (306, 42087), (319, 42126), (322, 42132), (329, 42156), (335, 42183), (354, 42234),

Gene: DillyDally_66 Start: 38700, Stop: 39482, Start Num: 117
Candidate Starts for DillyDally_66:
(Start: 117 @38700 has 1 MA's), (161, 38838), (166, 38859), (214, 38985), (218, 39000), (221, 39015), (244, 39093), (253, 39117), (271, 39180), (310, 39306), (350, 39420),

Gene: Ding_85 Start: 49903, Stop: 50652, Start Num: 154
Candidate Starts for Ding_85:
(Start: 154 @49903 has 54 MA's), (179, 49990), (188, 50008), (190, 50011), (197, 50032), (217, 50101), (222, 50122), (243, 50209), (266, 50299), (326, 50509), (352, 50587),

Gene: DinoNuggs_60 Start: 39095, Stop: 39976, Start Num: 97
Candidate Starts for DinoNuggs_60:
(86, 39041), (Start: 97 @39095 has 7 MA's), (305, 39758), (354, 39908), (359, 39923),

Gene: DobbysSock_69 Start: 45937, Stop: 46674, Start Num: 125
Candidate Starts for DobbysSock_69:
(Start: 125 @45937 has 15 MA's), (144, 45979), (Start: 154 @46012 has 54 MA's), (185, 46096), (233, 46243), (270, 46393), (292, 46474), (299, 46486),

Gene: DocMcStuffins_84 Start: 53513, Stop: 54418, Start Num: 102
Candidate Starts for DocMcStuffins_84:

(Start: 102 @53513 has 67 MA's), (130, 53591), (217, 53876), (232, 53927), (243, 53975), (253, 54005), (278, 54119), (296, 54185), (341, 54323), (344, 54329), (353, 54353), (360, 54377), (362, 54386),

Gene: DonkeyMan_59 Start: 38622, Stop: 39494, Start Num: 97
Candidate Starts for DonkeyMan_59:
(Start: 97 @38622 has 7 MA's), (Start: 102 @38634 has 67 MA's), (170, 38847), (305, 39276), (354, 39426), (359, 39441),

Gene: Donovan_65 Start: 42034, Stop: 42936, Start Num: 102
Candidate Starts for Donovan_65:
(19, 41542), (39, 41830), (77, 41959), (91, 42004), (Start: 102 @42034 has 67 MA's), (116, 42076), (206, 42355), (207, 42358), (232, 42448), (278, 42640), (285, 42673), (305, 42727), (318, 42769), (333, 42820), (344, 42850), (358, 42889), (360, 42898),

Gene: DreamEater_78 Start: 44664, Stop: 45494, Start Num: 115
Candidate Starts for DreamEater_78:
(Start: 115 @44664 has 4 MA's), (151, 44778), (177, 44868), (214, 44964), (218, 44979), (236, 45042), (255, 45114), (260, 45129), (291, 45231), (310, 45288), (316, 45303), (359, 45429), (360, 45435), (368, 45465),

Gene: DumpsterDude_69 Start: 50376, Stop: 51257, Start Num: 104
Candidate Starts for DumpsterDude_69:
(11, 49788), (14, 49821), (29, 50073), (36, 50124), (Start: 104 @50376 has 4 MA's),

Gene: Dynamo_65 Start: 41473, Stop: 42375, Start Num: 102
Candidate Starts for Dynamo_65:
(17, 40954), (39, 41269), (77, 41398), (91, 41443), (Start: 102 @41473 has 67 MA's), (116, 41515), (147, 41605), (187, 41737), (206, 41794), (207, 41797), (232, 41887), (278, 42079), (318, 42208), (333, 42259), (344, 42289), (358, 42328), (360, 42337),

Gene: Etoile_64 Start: 41860, Stop: 42762, Start Num: 102
Candidate Starts for Etoile_64:
(19, 41368), (39, 41656), (77, 41785), (91, 41830), (Start: 102 @41860 has 67 MA's), (116, 41902), (206, 42181), (207, 42184), (232, 42274), (278, 42466), (285, 42499), (305, 42553), (318, 42595), (333, 42646), (344, 42676), (358, 42715), (360, 42724),

Gene: EvePickles_92 Start: 51186, Stop: 51797, Start Num: 156
Candidate Starts for EvePickles_92:
(Start: 154 @51180 has 54 MA's), (Start: 156 @51186 has 1 MA's), (173, 51246), (194, 51303), (197, 51309), (199, 51318), (213, 51363), (305, 51594), (309, 51612), (320, 51642), (322, 51645), (324, 51654),

Gene: Eyre_61 Start: 39340, Stop: 40278, Start Num: 101
Candidate Starts for Eyre_61:
(Start: 101 @39340 has 1 MA's), (167, 39550), (178, 39589), (182, 39598), (192, 39622), (200, 39652), (215, 39703), (258, 39862), (268, 39910), (295, 40030), (347, 40198), (356, 40219), (360, 40237), (362, 40246), (369, 40267),

Gene: Fairfaxidum_80 Start: 48694, Stop: 49470, Start Num: 126
Candidate Starts for Fairfaxidum_80:
(Start: 126 @48694 has 53 MA's), (183, 48874), (209, 48937), (210, 48946), (236, 49036), (319, 49309), (326, 49330), (329, 49339), (354, 49417),

Gene: Faja_92 Start: 50399, Stop: 51010, Start Num: 154
Candidate Starts for Faja_92:
(Start: 154 @50399 has 54 MA's), (Start: 156 @50405 has 1 MA's), (173, 50465), (194, 50522), (197, 50528), (199, 50537), (213, 50582), (305, 50810), (309, 50828), (337, 50912), (364, 50984), (365, 50987),

Gene: Fenry_76 Start: 48068, Stop: 48844, Start Num: 126
Candidate Starts for Fenry_76:
(51, 47849), (82, 47936), (Start: 126 @48068 has 53 MA's), (171, 48212), (183, 48245), (210, 48317), (225, 48374), (233, 48395), (236, 48407), (261, 48515), (326, 48701), (329, 48710),

Gene: FirstPlacePfu_69 Start: 41066, Stop: 41968, Start Num: 102
Candidate Starts for FirstPlacePfu_69:
(17, 40547), (39, 40862), (77, 40991), (91, 41036), (Start: 102 @41066 has 67 MA's), (116, 41108), (147, 41198), (206, 41387), (207, 41390), (232, 41480), (278, 41672), (285, 41705), (318, 41801), (344, 41882), (360, 41930),

Gene: Fishburne_64 Start: 41860, Stop: 42762, Start Num: 102
Candidate Starts for Fishburne_64:
(19, 41368), (39, 41656), (77, 41785), (91, 41830), (Start: 102 @41860 has 67 MA's), (116, 41902), (206, 42181), (207, 42184), (232, 42274), (278, 42466), (285, 42499), (305, 42553), (318, 42595), (333, 42646), (344, 42676), (358, 42715), (360, 42724),

Gene: Francois_73 Start: 48813, Stop: 49691, Start Num: 106
Candidate Starts for Francois_73:
(Start: 106 @48813 has 1 MA's), (209, 49125), (212, 49140), (277, 49380), (326, 49527), (336, 49566), (370, 49674),

Gene: Frokostdame_82 Start: 50554, Stop: 51336, Start Num: 126
Candidate Starts for Frokostdame_82:
(72, 50389), (Start: 126 @50554 has 53 MA's), (183, 50737), (236, 50899), (261, 51007), (326, 51193), (329, 51202), (354, 51280),

Gene: GMA4_62 Start: 40731, Stop: 41486, Start Num: 125
Candidate Starts for GMA4_62:
(33, 40401), (Start: 125 @40731 has 15 MA's), (252, 41109), (291, 41280), (299, 41298), (315, 41346),

Gene: GUPitcher_81 Start: 44933, Stop: 45763, Start Num: 115
Candidate Starts for GUPitcher_81:
(Start: 115 @44933 has 4 MA's), (151, 45047), (166, 45101), (177, 45137), (214, 45233), (218, 45248), (253, 45371), (255, 45383), (260, 45398), (274, 45446), (291, 45500), (310, 45557), (316, 45572), (359, 45698), (360, 45704), (368, 45734),

Gene: GaloreK_66 Start: 42546, Stop: 43448, Start Num: 102
Candidate Starts for GaloreK_66:
(19, 42054), (39, 42342), (77, 42471), (91, 42516), (Start: 102 @42546 has 67 MA's), (116, 42588), (206, 42867), (207, 42870), (232, 42960), (278, 43152), (285, 43185), (305, 43239), (318, 43281), (333, 43332), (344, 43362), (360, 43410),

Gene: Gambino_85 Start: 51089, Stop: 51874, Start Num: 126
Candidate Starts for Gambino_85:

(72, 50924), (Start: 126 @51089 has 53 MA's), (183, 51272), (236, 51434), (261, 51542), (326, 51728), (329, 51737),

Gene: Gavriela_65 Start: 42765, Stop: 43667, Start Num: 102
Candidate Starts for Gavriela_65:
(17, 42246), (39, 42561), (77, 42690), (91, 42735), (Start: 102 @42765 has 67 MA's), (116, 42807), (206, 43086), (207, 43089), (232, 43179), (278, 43371), (285, 43404), (305, 43458), (318, 43500), (333, 43551), (344, 43581), (358, 43620), (360, 43629),

Gene: Getalong_99 Start: 53422, Stop: 54150, Start Num: 126
Candidate Starts for Getalong_99:
(Start: 126 @53422 has 53 MA's), (Start: 154 @53497 has 54 MA's), (220, 53680), (270, 53872), (277, 53896), (279, 53908), (281, 53920), (298, 53962), (299, 53965), (311, 54007), (314, 54010), (315, 54013), (317, 54016), (322, 54031), (325, 54043), (326, 54046), (346, 54112), (349, 54118),

Gene: Gibbzilla_69 Start: 37050, Stop: 37637, Start Num: 154
Candidate Starts for Gibbzilla_69:
(137, 36990), (Start: 154 @37050 has 54 MA's), (184, 37146), (187, 37152), (305, 37461), (324, 37521), (354, 37602),

Gene: Glaske_65 Start: 43072, Stop: 43974, Start Num: 102
Candidate Starts for Glaske_65:
(17, 42553), (39, 42868), (77, 42997), (91, 43042), (Start: 102 @43072 has 67 MA's), (116, 43114), (206, 43393), (207, 43396), (232, 43486), (278, 43678), (285, 43711), (305, 43765), (318, 43807), (333, 43858), (344, 43888), (358, 43927), (360, 43936),

Gene: Globfish_91 Start: 49142, Stop: 49876, Start Num: 154
Candidate Starts for Globfish_91:
(Start: 154 @49142 has 54 MA's), (Start: 156 @49148 has 1 MA's), (173, 49208), (194, 49265), (213, 49325), (276, 49565), (363, 49850),

Gene: Gorpy_89 Start: 51150, Stop: 51884, Start Num: 154
Candidate Starts for Gorpy_89:
(Start: 154 @51150 has 54 MA's), (194, 51273), (276, 51573), (363, 51858),

Gene: GrandSlam_74 Start: 49201, Stop: 50076, Start Num: 107
Candidate Starts for GrandSlam_74:
(53, 49030), (92, 49162), (103, 49195), (Start: 107 @49201 has 14 MA's), (140, 49294), (181, 49441), (209, 49510), (212, 49525), (277, 49765), (308, 49864), (326, 49912), (336, 49951), (370, 50059),

Gene: GreaseLightnin_70 Start: 43854, Stop: 44756, Start Num: 102
Candidate Starts for GreaseLightnin_70:
(17, 43335), (39, 43650), (77, 43779), (91, 43824), (Start: 102 @43854 has 67 MA's), (116, 43896), (147, 43986), (206, 44175), (207, 44178), (232, 44268), (278, 44460), (318, 44589), (344, 44670), (360, 44718),

Gene: Guacamole_75 Start: 47418, Stop: 48194, Start Num: 126
Candidate Starts for Guacamole_75:
(Start: 126 @47418 has 53 MA's), (183, 47595), (210, 47667), (225, 47724), (227, 47730), (233, 47745), (236, 47757), (261, 47865), (326, 48051), (329, 48060),

Gene: Gudmit_65 Start: 38909, Stop: 39847, Start Num: 98
Candidate Starts for Gudmit_65:

(46, 38729), (82, 38858), (Start: 98 @38909 has 1 MA's), (129, 38990), (162, 39113), (167, 39125), (182, 39173), (190, 39188), (207, 39245), (235, 39347), (293, 39596), (313, 39659), (314, 39662), (347, 39770), (356, 39791), (360, 39809), (362, 39818),

Gene: GumGum_99 Start: 51583, Stop: 52206, Start Num: 154
Candidate Starts for GumGum_99:
(Start: 127 @51502 has 4 MA's), (Start: 154 @51583 has 54 MA's), (227, 51823), (229, 51829), (323, 52054), (330, 52075), (358, 52156), (363, 52177),

Gene: HC_62 Start: 39977, Stop: 40879, Start Num: 102
Candidate Starts for HC_62:
(Start: 102 @39977 has 67 MA's), (206, 40298), (217, 40340), (232, 40391), (278, 40583), (285, 40616), (318, 40712), (328, 40742), (344, 40793), (360, 40841),

Gene: HUHilltop_68 Start: 41696, Stop: 42598, Start Num: 102
Candidate Starts for HUHilltop_68:
(17, 41177), (39, 41492), (77, 41621), (91, 41666), (Start: 102 @41696 has 67 MA's), (116, 41738), (147, 41828), (187, 41960), (206, 42017), (207, 42020), (232, 42110), (278, 42302), (318, 42431), (333, 42482), (344, 42512), (358, 42551), (360, 42560),

Gene: Hamood_74 Start: 49201, Stop: 50076, Start Num: 107
Candidate Starts for Hamood_74:
(53, 49030), (92, 49162), (103, 49195), (Start: 107 @49201 has 14 MA's), (140, 49294), (181, 49441), (209, 49510), (212, 49525), (277, 49765), (308, 49864), (326, 49912), (336, 49951), (370, 50059),

Gene: Heinz_58 Start: 37588, Stop: 38469, Start Num: 97
Candidate Starts for Heinz_58:
(Start: 97 @37588 has 7 MA's), (305, 38251), (354, 38401), (358, 38413),

Gene: Hestia_85 Start: 47670, Stop: 48419, Start Num: 154
Candidate Starts for Hestia_85:
(108, 47523), (133, 47592), (135, 47601), (Start: 154 @47670 has 54 MA's), (Start: 156 @47676 has 1 MA's), (190, 47778), (197, 47799), (217, 47868), (222, 47889), (243, 47976), (352, 48354),

Gene: Hibiscus_59 Start: 37479, Stop: 38351, Start Num: 97
Candidate Starts for Hibiscus_59:
(27, 37173), (56, 37335), (59, 37341), (63, 37359), (69, 37380), (86, 37425), (Start: 97 @37479 has 7 MA's), (305, 38133), (354, 38283), (359, 38298),

Gene: Hillester_95 Start: 50345, Stop: 51079, Start Num: 154
Candidate Starts for Hillester_95:
(Start: 154 @50345 has 54 MA's), (194, 50468), (213, 50528), (276, 50768), (363, 51053),

Gene: Hitter_75 Start: 45674, Stop: 46450, Start Num: 126
Candidate Starts for Hitter_75:
(51, 45455), (Start: 126 @45674 has 53 MA's), (183, 45851), (210, 45923), (233, 46001), (236, 46013), (261, 46121), (326, 46307), (329, 46316), (334, 46340),

Gene: Hortense_75 Start: 50324, Stop: 51061, Start Num: 125
Candidate Starts for Hortense_75:
(50, 50078), (90, 50225), (Start: 104 @50267 has 4 MA's), (Start: 125 @50324 has 15 MA's), (144, 50366), (Start: 154 @50399 has 54 MA's), (183, 50480), (185, 50483), (233, 50630), (270, 50780), (292, 50861), (299, 50873),

Gene: Howe_75 Start: 50324, Stop: 51061, Start Num: 125
Candidate Starts for Howe_75:
(50, 50078), (90, 50225), (Start: 104 @50267 has 4 MA's), (Start: 125 @50324 has 15 MA's), (144, 50366), (Start: 154 @50399 has 54 MA's), (183, 50480), (185, 50483), (233, 50630), (270, 50780), (292, 50861), (299, 50873),

Gene: Hum25_77 Start: 39455, Stop: 40183, Start Num: 123
Candidate Starts for Hum25_77:
(108, 39410), (Start: 123 @39455 has 2 MA's), (158, 39554), (159, 39560), (164, 39581), (165, 39584), (186, 39635), (231, 39773), (239, 39803), (265, 39905), (279, 39959), (323, 40070), (358, 40166),

Gene: IdentityCrisis_57 Start: 35089, Stop: 35964, Start Num: 115
Candidate Starts for IdentityCrisis_57:
(100, 35053), (Start: 115 @35089 has 4 MA's), (141, 35170), (173, 35284), (195, 35341), (211, 35395), (300, 35725), (303, 35731), (339, 35851),

Gene: InLimbo_68 Start: 39899, Stop: 40642, Start Num: 125
Candidate Starts for InLimbo_68:
(68, 39728), (Start: 125 @39899 has 15 MA's), (185, 40064), (270, 40361), (292, 40442), (298, 40451), (299, 40454),

Gene: Island3_67 Start: 42444, Stop: 43346, Start Num: 102
Candidate Starts for Island3_67:
(39, 42237), (77, 42366), (91, 42414), (Start: 102 @42444 has 67 MA's), (116, 42486), (147, 42576), (187, 42708), (206, 42765), (207, 42768), (209, 42774), (217, 42807), (243, 42906), (253, 42936), (285, 43083), (328, 43209), (344, 43260), (360, 43308),

Gene: Isolde_92 Start: 51007, Stop: 51630, Start Num: 154
Candidate Starts for Isolde_92:
(Start: 154 @51007 has 54 MA's), (193, 51124), (227, 51247), (229, 51253), (323, 51478), (330, 51499), (336, 51523), (358, 51580), (363, 51601),

Gene: Jace_92 Start: 51606, Stop: 52397, Start Num: 123
Candidate Starts for Jace_92:
(93, 51519), (Start: 123 @51606 has 2 MA's), (134, 51627), (172, 51756), (175, 51765), (283, 52119), (313, 52203), (314, 52206), (331, 52257), (350, 52320), (354, 52329), (367, 52377),

Gene: JakeTheSnake_96 Start: 52322, Stop: 52972, Start Num: 143
Candidate Starts for JakeTheSnake_96:
(143, 52322), (146, 52328), (Start: 154 @52349 has 54 MA's), (229, 52595), (323, 52820), (330, 52841), (358, 52922), (363, 52943),

Gene: Jalammah_80 Start: 49580, Stop: 50356, Start Num: 126
Candidate Starts for Jalammah_80:
(67, 49415), (82, 49448), (Start: 126 @49580 has 53 MA's), (183, 49757), (210, 49829), (225, 49886), (233, 49907), (236, 49919), (261, 50027), (326, 50213), (329, 50222),

Gene: JasperJr_75 Start: 47418, Stop: 48194, Start Num: 126
Candidate Starts for JasperJr_75:
(Start: 126 @47418 has 53 MA's), (183, 47595), (210, 47667), (225, 47724), (227, 47730), (233, 47745), (236, 47757), (261, 47865), (326, 48051), (329, 48060),

Gene: JeanClaude_64 Start: 35416, Stop: 36009, Start Num: 152
Candidate Starts for JeanClaude_64:
(Start: 152 @35416 has 1 MA's), (Start: 157 @35428 has 1 MA's), (174, 35491), (184, 35518), (222, 35635), (223, 35638), (226, 35653), (243, 35722), (305, 35830), (324, 35890), (337, 35932),

Gene: Jebeks_66 Start: 40993, Stop: 41895, Start Num: 102
Candidate Starts for Jebeks_66:
(17, 40474), (39, 40789), (77, 40918), (91, 40963), (Start: 102 @40993 has 67 MA's), (116, 41035), (206, 41314), (207, 41317), (232, 41407), (278, 41599), (285, 41632), (305, 41686), (318, 41728), (333, 41779), (344, 41809), (358, 41848), (360, 41857),

Gene: JellyBread_88 Start: 50339, Stop: 51088, Start Num: 154
Candidate Starts for JellyBread_88:
(Start: 154 @50339 has 54 MA's), (173, 50405), (190, 50447), (197, 50468), (217, 50537), (222, 50558), (243, 50645), (352, 51023),

Gene: Jflix2_100 Start: 57187, Stop: 57882, Start Num: 142
Candidate Starts for Jflix2_100:
(Start: 142 @57187 has 3 MA's), (148, 57205), (161, 57244), (173, 57286), (193, 57328), (203, 57364), (223, 57436), (237, 57484), (256, 57559), (277, 57625), (305, 57706), (316, 57742), (327, 57775), (328, 57778), (339, 57814), (346, 57835), (360, 57874),

Gene: Jojo24_58 Start: 37912, Stop: 38784, Start Num: 97
Candidate Starts for Jojo24_58:
(69, 37819), (86, 37858), (Start: 97 @37912 has 7 MA's), (170, 38137), (305, 38566), (354, 38716), (359, 38731),

Gene: JuJu_85 Start: 51321, Stop: 52103, Start Num: 126
Candidate Starts for JuJu_85:
(Start: 126 @51321 has 53 MA's), (183, 51504), (236, 51666), (261, 51774), (326, 51960), (329, 51969),

Gene: Jung_66 Start: 41978, Stop: 42880, Start Num: 102
Candidate Starts for Jung_66:
(Start: 102 @41978 has 67 MA's), (134, 42065), (147, 42110), (187, 42242), (206, 42299), (207, 42302), (232, 42392), (278, 42584), (318, 42713), (344, 42794), (360, 42842),

Gene: Juniormint_63 Start: 40449, Stop: 41351, Start Num: 102
Candidate Starts for Juniormint_63:
(17, 39930), (39, 40245), (77, 40374), (91, 40419), (Start: 102 @40449 has 67 MA's), (116, 40491), (206, 40770), (207, 40773), (232, 40863), (278, 41055), (285, 41088), (305, 41142), (318, 41184), (333, 41235), (344, 41265), (358, 41304), (360, 41313),

Gene: Kabloowy_90 Start: 50496, Stop: 51119, Start Num: 154
Candidate Starts for Kabloowy_90:
(Start: 127 @50415 has 4 MA's), (Start: 154 @50496 has 54 MA's), (227, 50736), (229, 50742), (323, 50967), (330, 50988), (336, 51012), (358, 51069), (363, 51090),

Gene: KappaFarmDelta_77 Start: 47260, Stop: 48036, Start Num: 126
Candidate Starts for KappaFarmDelta_77:
(28, 46912), (30, 46924), (64, 47086), (67, 47095), (Start: 126 @47260 has 53 MA's), (183, 47437), (210, 47509), (225, 47566), (233, 47587), (236, 47599), (261, 47707), (326, 47893), (329, 47902), (334, 47926),

Gene: Kari_65 Start: 41857, Stop: 42759, Start Num: 102
Candidate Starts for Kari_65:
(19, 41365), (39, 41653), (77, 41782), (91, 41827), (Start: 102 @41857 has 67 MA's), (116, 41899), (206, 42178), (207, 42181), (232, 42271), (278, 42463), (285, 42496), (305, 42550), (318, 42592), (333, 42643), (344, 42673), (358, 42712), (360, 42721),

Gene: KilKor_66 Start: 43765, Stop: 44667, Start Num: 102
Candidate Starts for KilKor_66:
(17, 43246), (39, 43561), (77, 43690), (91, 43735), (Start: 102 @43765 has 67 MA's), (116, 43807), (206, 44086), (207, 44089), (232, 44179), (278, 44371), (285, 44404), (305, 44458), (318, 44500), (333, 44551), (344, 44581), (358, 44620), (360, 44629),

Gene: Ksquared_69 Start: 44078, Stop: 44980, Start Num: 102
Candidate Starts for Ksquared_69:
(17, 43559), (39, 43874), (77, 44003), (91, 44048), (Start: 102 @44078 has 67 MA's), (116, 44120), (147, 44210), (206, 44399), (207, 44402), (232, 44492), (278, 44684), (285, 44717), (318, 44813), (344, 44894), (360, 44942),

Gene: Kumotta_74 Start: 38724, Stop: 39317, Start Num: 154
Candidate Starts for Kumotta_74:
(138, 38676), (Start: 154 @38724 has 54 MA's), (187, 38826), (194, 38847), (305, 39138),

Gene: Kuwabara_89 Start: 52072, Stop: 52815, Start Num: 125
Candidate Starts for Kuwabara_89:
(68, 51901), (Start: 125 @52072 has 15 MA's), (185, 52237), (270, 52534), (292, 52615), (298, 52624), (299, 52627),

Gene: Langerak_65 Start: 41837, Stop: 42739, Start Num: 102
Candidate Starts for Langerak_65:
(19, 41345), (39, 41633), (77, 41762), (91, 41807), (Start: 102 @41837 has 67 MA's), (116, 41879), (206, 42158), (207, 42161), (232, 42251), (278, 42443), (285, 42476), (305, 42530), (318, 42572), (333, 42623), (344, 42653), (358, 42692), (360, 42701),

Gene: Lasker_91 Start: 51177, Stop: 51800, Start Num: 154
Candidate Starts for Lasker_91:
(Start: 154 @51177 has 54 MA's), (201, 51324), (220, 51387), (229, 51423), (323, 51648), (340, 51705), (358, 51750), (363, 51771),

Gene: Lawnathon_95 Start: 50695, Stop: 51429, Start Num: 154
Candidate Starts for Lawnathon_95:
(Start: 154 @50695 has 54 MA's), (194, 50818), (213, 50878), (276, 51118), (363, 51403),

Gene: LeBruni_93 Start: 50382, Stop: 51005, Start Num: 154
Candidate Starts for LeBruni_93:
(108, 50244), (Start: 117 @50274 has 1 MA's), (Start: 127 @50301 has 4 MA's), (Start: 154 @50382 has 54 MA's), (194, 50505), (227, 50622), (229, 50628), (323, 50853), (330, 50874), (336, 50898), (358, 50955), (363, 50976),

Gene: LilSpotty_82 Start: 47559, Stop: 48464, Start Num: 102
Candidate Starts for LilSpotty_82:
(Start: 102 @47559 has 67 MA's), (130, 47637), (206, 47880), (209, 47889), (217, 47922), (232, 47973), (243, 48021), (253, 48051), (278, 48165), (285, 48198), (296, 48231), (341, 48369), (344,

48375), (353, 48399), (360, 48423), (362, 48432),

Gene: Lton_68 Start: 39225, Stop: 39968, Start Num: 125
Candidate Starts for Lton_68:
(68, 39054), (Start: 125 @39225 has 15 MA's), (185, 39390), (270, 39687), (292, 39768), (298, 39777), (299, 39780),

Gene: Lucky10_67 Start: 41325, Stop: 42068, Start Num: 125
Candidate Starts for Lucky10_67:
(64, 41145), (105, 41274), (Start: 107 @41277 has 14 MA's), (Start: 125 @41325 has 15 MA's), (Start: 154 @41406 has 54 MA's), (185, 41490), (196, 41514), (270, 41787), (292, 41868), (298, 41877), (299, 41880),

Gene: Lysidious_79 Start: 48328, Stop: 49104, Start Num: 126
Candidate Starts for Lysidious_79:
(34, 48028), (44, 48079), (67, 48163), (82, 48196), (Start: 126 @48328 has 53 MA's), (183, 48505), (210, 48577), (225, 48634), (233, 48655), (236, 48667), (261, 48775), (326, 48961), (329, 48970), (334, 48994),

Gene: MUWow_93 Start: 51176, Stop: 51925, Start Num: 154
Candidate Starts for MUWow_93:
(Start: 154 @51176 has 54 MA's), (173, 51242), (190, 51284), (197, 51305), (222, 51395), (228, 51419), (243, 51482), (248, 51494), (253, 51515), (282, 51644), (352, 51860),

Gene: Madraxi_102 Start: 59347, Stop: 60069, Start Num: 142
Candidate Starts for Madraxi_102:
(Start: 142 @59347 has 3 MA's), (148, 59365), (161, 59404), (173, 59446), (193, 59488), (203, 59524), (208, 59536), (223, 59596), (243, 59671), (305, 59866), (322, 59917), (328, 59938), (335, 59968), (361, 60040),

Gene: Majeke_68 Start: 42487, Stop: 43389, Start Num: 102
Candidate Starts for Majeke_68:
(19, 41992), (39, 42283), (77, 42412), (91, 42457), (Start: 102 @42487 has 67 MA's), (116, 42529), (206, 42808), (207, 42811), (232, 42901), (278, 43093), (285, 43126), (305, 43180), (318, 43222), (333, 43273), (344, 43303), (358, 43342), (360, 43351),

Gene: Malachai_75 Start: 49240, Stop: 50016, Start Num: 126
Candidate Starts for Malachai_75:
(35, 48943), (51, 49021), (Start: 126 @49240 has 53 MA's), (183, 49417), (233, 49567), (236, 49579), (261, 49687), (326, 49873), (329, 49882),

Gene: Malibo_74 Start: 48036, Stop: 48914, Start Num: 104
Candidate Starts for Malibo_74:
(21, 47619), (Start: 104 @48036 has 4 MA's), (209, 48348),

Gene: Malisha_92 Start: 53316, Stop: 54062, Start Num: 126
Candidate Starts for Malisha_92:
(Start: 106 @53265 has 1 MA's), (Start: 107 @53268 has 14 MA's), (Start: 126 @53316 has 53 MA's), (165, 53430), (234, 53634), (269, 53763), (289, 53829), (306, 53877), (308, 53889), (329, 53946), (354, 54024),

Gene: Malithi_65 Start: 41622, Stop: 42524, Start Num: 102
Candidate Starts for Malithi_65:

(75, 41544), (Start: 102 @41622 has 67 MA's), (116, 41664), (147, 41754), (187, 41886), (206, 41943), (207, 41946), (232, 42036), (278, 42228), (318, 42357), (333, 42408), (344, 42438), (358, 42477), (360, 42486),

Gene: Mangethe_68 Start: 42487, Stop: 43389, Start Num: 102
Candidate Starts for Mangethe_68:
(19, 41992), (39, 42283), (77, 42412), (91, 42457), (Start: 102 @42487 has 67 MA's), (116, 42529), (206, 42808), (207, 42811), (232, 42901), (278, 43093), (285, 43126), (305, 43180), (318, 43222), (333, 43273), (344, 43303), (358, 43342), (360, 43351),

Gene: Mapleville_84 Start: 48636, Stop: 49259, Start Num: 154
Candidate Starts for Mapleville_84:
(Start: 154 @48636 has 54 MA's), (220, 48846), (229, 48882), (323, 49107), (340, 49164), (358, 49209), (363, 49230),

Gene: MargaretKali_70 Start: 37342, Stop: 37935, Start Num: 154
Candidate Starts for MargaretKali_70:
(138, 37294), (Start: 154 @37342 has 54 MA's), (187, 37444), (194, 37465), (253, 37678), (254, 37681), (264, 37705), (305, 37756),

Gene: Maruru_81 Start: 50216, Stop: 51058, Start Num: 118
Candidate Starts for Maruru_81:
(Start: 118 @50216 has 3 MA's), (Start: 154 @50321 has 54 MA's), (159, 50339), (180, 50402), (202, 50456), (209, 50471), (210, 50480), (218, 50507), (219, 50510), (263, 50684), (355, 50987), (358, 50996),

Gene: MaterMagnus_90 Start: 50388, Stop: 51137, Start Num: 154
Candidate Starts for MaterMagnus_90:
(Start: 154 @50388 has 54 MA's), (169, 50439), (190, 50496), (197, 50517), (217, 50586), (222, 50607), (243, 50694), (253, 50727), (352, 51072),

Gene: Megiddo_65 Start: 43633, Stop: 44535, Start Num: 102
Candidate Starts for Megiddo_65:
(17, 43114), (39, 43429), (77, 43558), (91, 43603), (Start: 102 @43633 has 67 MA's), (116, 43675), (206, 43954), (207, 43957), (232, 44047), (278, 44239), (285, 44272), (305, 44326), (318, 44368), (333, 44419), (344, 44449), (358, 44488), (360, 44497),

Gene: Melba_77 Start: 46375, Stop: 47151, Start Num: 126
Candidate Starts for Melba_77:
(64, 46201), (Start: 126 @46375 has 53 MA's), (183, 46552), (210, 46624), (233, 46702), (236, 46714), (261, 46822), (326, 47008), (329, 47017), (334, 47041),

Gene: Mellie_74 Start: 46392, Stop: 47168, Start Num: 126
Candidate Starts for Mellie_74:
(Start: 126 @46392 has 53 MA's), (160, 46497), (183, 46569), (236, 46731), (326, 47025), (329, 47034),

Gene: Merpity_76 Start: 39442, Stop: 40167, Start Num: 125
Candidate Starts for Merpity_76:
(Start: 125 @39442 has 15 MA's), (Start: 127 @39445 has 4 MA's), (158, 39535), (164, 39562), (165, 39565), (186, 39616), (231, 39754), (239, 39784), (273, 39919), (280, 39952), (323, 40054), (358, 40150),

Gene: MidnightRain_98 Start: 51625, Stop: 52236, Start Num: 154
Candidate Starts for MidnightRain_98:
(Start: 154 @51625 has 54 MA's), (173, 51691), (194, 51748), (213, 51808), (305, 52036), (309, 52054), (337, 52138), (354, 52177), (364, 52210), (365, 52213),

Gene: MintFen_77 Start: 46614, Stop: 47390, Start Num: 126
Candidate Starts for MintFen_77:
(Start: 126 @46614 has 53 MA's), (183, 46791), (210, 46863), (225, 46920), (227, 46926), (233, 46941), (236, 46953), (261, 47061), (326, 47247), (329, 47256),

Gene: Misha28_86 Start: 52818, Stop: 53723, Start Num: 102
Candidate Starts for Misha28_86:
(Start: 102 @52818 has 67 MA's), (130, 52896), (217, 53181), (232, 53232), (243, 53280), (253, 53310), (278, 53424), (296, 53490), (341, 53628), (344, 53634), (353, 53658), (360, 53682), (362, 53691),

Gene: MissRona_83 Start: 51090, Stop: 51875, Start Num: 126
Candidate Starts for MissRona_83:
(72, 50925), (Start: 126 @51090 has 53 MA's), (183, 51273), (236, 51435), (261, 51543), (326, 51729), (329, 51738),

Gene: Moosehead_71 Start: 39747, Stop: 40490, Start Num: 125
Candidate Starts for Moosehead_71:
(105, 39696), (Start: 107 @39699 has 14 MA's), (Start: 125 @39747 has 15 MA's), (185, 39912), (196, 39936), (292, 40290), (299, 40302), (314, 40347),

Gene: Morkie_71 Start: 40373, Stop: 41116, Start Num: 125
Candidate Starts for Morkie_71:
(68, 40202), (Start: 125 @40373 has 15 MA's), (185, 40538), (270, 40835), (292, 40916), (298, 40925), (299, 40928),

Gene: MrSmee_75 Start: 39017, Stop: 39739, Start Num: 127
Candidate Starts for MrSmee_75:
(Start: 125 @39014 has 15 MA's), (Start: 127 @39017 has 4 MA's), (158, 39107), (164, 39134), (165, 39137), (186, 39188), (199, 39221), (231, 39326), (239, 39356), (243, 39374), (273, 39491), (280, 39524), (323, 39626), (332, 39659), (358, 39722),

Gene: Mufasa8_85 Start: 50444, Stop: 51298, Start Num: 114
Candidate Starts for Mufasa8_85:
(Start: 114 @50444 has 1 MA's), (160, 50588), (176, 50633), (180, 50642), (202, 50696), (247, 50852), (258, 50897), (259, 50903), (307, 51086), (321, 51119), (323, 51128), (338, 51179), (345, 51203), (355, 51224), (358, 51233),

Gene: Mulch_72 Start: 48191, Stop: 49066, Start Num: 107
Candidate Starts for Mulch_72:
(53, 48020), (92, 48152), (103, 48185), (Start: 107 @48191 has 14 MA's), (140, 48284), (181, 48431), (209, 48500), (212, 48515), (277, 48755), (308, 48854), (336, 48941), (370, 49049),

Gene: Murp_75 Start: 49491, Stop: 50267, Start Num: 126
Candidate Starts for Murp_75:
(67, 49326), (Start: 126 @49491 has 53 MA's), (160, 49596), (183, 49668), (210, 49740), (225, 49797), (233, 49818), (236, 49830), (261, 49938), (326, 50124), (329, 50133),

Gene: MurphyJoseph_91 Start: 48790, Stop: 49413, Start Num: 154
Candidate Starts for MurphyJoseph_91:
(Start: 154 @48790 has 54 MA's), (201, 48937), (220, 49000), (229, 49036), (323, 49261), (330, 49282), (363, 49384),

Gene: Nadeem_72 Start: 48179, Stop: 49054, Start Num: 107
Candidate Starts for Nadeem_72:
(53, 48008), (92, 48140), (103, 48173), (Start: 107 @48179 has 14 MA's), (140, 48272), (181, 48419), (209, 48488), (212, 48503), (277, 48743), (308, 48842), (336, 48929), (370, 49037),

Gene: NancyRae_71 Start: 48057, Stop: 48932, Start Num: 107
Candidate Starts for NancyRae_71:
(87, 47997), (103, 48051), (Start: 107 @48057 has 14 MA's), (140, 48150), (181, 48297), (209, 48366), (212, 48381), (277, 48621), (308, 48720), (326, 48768), (336, 48807), (370, 48915),

Gene: Nazo_68 Start: 43481, Stop: 44383, Start Num: 102
Candidate Starts for Nazo_68:
(Start: 102 @43481 has 67 MA's), (116, 43523), (191, 43754), (207, 43805), (232, 43895), (243, 43943), (263, 44021), (278, 44087), (333, 44267), (344, 44297),

Gene: Necropolis_63 Start: 41062, Stop: 41964, Start Num: 102
Candidate Starts for Necropolis_63:
(17, 40543), (39, 40858), (77, 40987), (91, 41032), (Start: 102 @41062 has 67 MA's), (116, 41104), (147, 41194), (187, 41326), (206, 41383), (207, 41386), (232, 41476), (278, 41668), (318, 41797), (333, 41848), (344, 41878), (358, 41917), (360, 41926),

Gene: Neroxid_72 Start: 38145, Stop: 38867, Start Num: 127
Candidate Starts for Neroxid_72:
(Start: 127 @38145 has 4 MA's), (158, 38235), (164, 38262), (165, 38265), (175, 38289), (186, 38316), (199, 38349), (231, 38454), (238, 38481), (239, 38484), (273, 38619), (323, 38754), (358, 38850),

Gene: NewKitty_92 Start: 50619, Stop: 51233, Start Num: 154
Candidate Starts for NewKitty_92:
(Start: 154 @50619 has 54 MA's), (173, 50685), (194, 50742), (213, 50802), (305, 51033), (309, 51051), (312, 51060), (324, 51093),

Gene: Nyilah_98 Start: 50104, Stop: 50727, Start Num: 154
Candidate Starts for Nyilah_98:
(Start: 154 @50104 has 54 MA's), (220, 50314), (229, 50350), (323, 50575), (330, 50596), (336, 50620), (358, 50677), (363, 50698),

Gene: ODay_113 Start: 56624, Stop: 57352, Start Num: 126
Candidate Starts for ODay_113:
(110, 56576), (121, 56612), (Start: 126 @56624 has 53 MA's), (Start: 154 @56699 has 54 MA's), (185, 56777), (270, 57074), (277, 57098), (281, 57122), (298, 57164), (299, 57167), (308, 57200), (311, 57209), (314, 57212), (315, 57215), (317, 57218), (322, 57233), (325, 57245), (326, 57248), (346, 57314), (349, 57320),

Gene: Obliviate_77 Start: 46932, Stop: 47708, Start Num: 126
Candidate Starts for Obliviate_77:
(64, 46752), (Start: 126 @46932 has 53 MA's), (171, 47076), (183, 47109), (210, 47181), (233, 47259), (236, 47271), (261, 47379), (326, 47565), (329, 47574),

Gene: OneDirection_65 Start: 37787, Stop: 38530, Start Num: 125
Candidate Starts for OneDirection_65:
(68, 37616), (Start: 125 @37787 has 15 MA's), (185, 37952), (270, 38249), (292, 38330), (298, 38339), (299, 38342),

Gene: P3MA_56 Start: 37816, Stop: 38691, Start Num: 113
Candidate Starts for P3MA_56:
(Start: 113 @37816 has 1 MA's), (141, 37900), (173, 38014), (190, 38056), (211, 38125), (214, 38137), (300, 38455), (315, 38503), (333, 38563), (342, 38593),

Gene: PCoral7_76 Start: 47524, Stop: 48300, Start Num: 126
Candidate Starts for PCoral7_76:
(Start: 126 @47524 has 53 MA's), (183, 47704), (209, 47767), (210, 47776), (236, 47866), (319, 48139), (326, 48160), (329, 48169), (354, 48247),

Gene: PaintedDog_68 Start: 43905, Stop: 44792, Start Num: 109
Candidate Starts for PaintedDog_68:
(65, 43779), (71, 43797), (Start: 102 @43890 has 67 MA's), (Start: 109 @43905 has 1 MA's), (187, 44154), (204, 44208), (206, 44211), (207, 44214), (217, 44253), (243, 44352), (253, 44382), (285, 44529), (328, 44655), (344, 44706), (360, 44754),

Gene: Parada_72 Start: 48191, Stop: 49066, Start Num: 107
Candidate Starts for Parada_72:
(53, 48020), (92, 48152), (103, 48185), (Start: 107 @48191 has 14 MA's), (140, 48284), (181, 48431), (209, 48500), (212, 48515), (277, 48755), (308, 48854), (336, 48941), (370, 49049),

Gene: PeanutPie_70 Start: 43577, Stop: 44479, Start Num: 102
Candidate Starts for PeanutPie_70:
(17, 43058), (39, 43373), (77, 43502), (91, 43547), (Start: 102 @43577 has 67 MA's), (116, 43619), (147, 43709), (206, 43898), (207, 43901), (232, 43991), (278, 44183), (318, 44312), (344, 44393), (360, 44441),

Gene: Pepperoni_64 Start: 38913, Stop: 39656, Start Num: 125
Candidate Starts for Pepperoni_64:
(Start: 125 @38913 has 15 MA's), (185, 39078), (270, 39375), (292, 39456), (298, 39465), (299, 39468),

Gene: Persistence_86 Start: 47784, Stop: 48398, Start Num: 154
Candidate Starts for Persistence_86:
(Start: 154 @47784 has 54 MA's), (174, 47853), (184, 47880), (187, 47886), (226, 48018), (229, 48027), (236, 48054), (243, 48087), (246, 48096), (253, 48120), (254, 48123), (305, 48198), (324, 48258),

Gene: Petra_84 Start: 49488, Stop: 50267, Start Num: 126
Candidate Starts for Petra_84:
(32, 49173), (42, 49230), (54, 49281), (82, 49356), (Start: 126 @49488 has 53 MA's), (183, 49665), (236, 49827), (261, 49935), (326, 50121), (329, 50130), (334, 50154),

Gene: Phalm_66 Start: 43063, Stop: 43965, Start Num: 102
Candidate Starts for Phalm_66:
(17, 42544), (39, 42859), (77, 42988), (91, 43033), (Start: 102 @43063 has 67 MA's), (116, 43105), (206, 43384), (207, 43387), (232, 43477), (278, 43669), (285, 43702), (305, 43756), (318, 43798), (333, 43849), (344, 43879), (358, 43918), (360, 43927),

Gene: Phayonce_69 Start: 45605, Stop: 46513, Start Num: 102
Candidate Starts for Phayonce_69:
(15, 45062), (18, 45080), (26, 45269), (39, 45386), (77, 45518), (91, 45575), (Start: 102 @45605 has 67 MA's), (Start: 109 @45620 has 1 MA's), (130, 45683), (147, 45737), (206, 45926), (207, 45929), (209, 45935), (227, 46007), (263, 46145), (278, 46211), (285, 46244), (333, 46391), (344, 46421), (358, 46460),

Gene: Phegasus_68 Start: 42454, Stop: 43356, Start Num: 102
Candidate Starts for Phegasus_68:
(19, 41959), (39, 42250), (77, 42379), (91, 42424), (Start: 102 @42454 has 67 MA's), (116, 42496), (206, 42775), (207, 42778), (232, 42868), (278, 43060), (285, 43093), (305, 43147), (318, 43189), (333, 43240), (344, 43270), (358, 43309), (360, 43318),

Gene: Phineas_66 Start: 42030, Stop: 42932, Start Num: 102
Candidate Starts for Phineas_66:
(75, 41952), (Start: 102 @42030 has 67 MA's), (116, 42072), (147, 42162), (187, 42294), (206, 42351), (207, 42354), (232, 42444), (278, 42636), (318, 42765), (333, 42816), (344, 42846), (358, 42885), (360, 42894),

Gene: PhorbesPhlower_69 Start: 39768, Stop: 40511, Start Num: 125
Candidate Starts for PhorbesPhlower_69:
(68, 39597), (Start: 125 @39768 has 15 MA's), (185, 39933), (270, 40230), (292, 40311), (298, 40320), (299, 40323),

Gene: Phrank15_97 Start: 50774, Stop: 51388, Start Num: 154
Candidate Starts for Phrank15_97:
(150, 50759), (Start: 154 @50774 has 54 MA's), (184, 50870), (187, 50876), (216, 50966), (229, 51017), (236, 51044), (243, 51077), (246, 51086), (253, 51110), (254, 51113), (301, 51179), (305, 51188), (324, 51248),

Gene: PhrostedPhlake_83 Start: 49071, Stop: 49847, Start Num: 126
Candidate Starts for PhrostedPhlake_83:
(67, 48906), (Start: 126 @49071 has 53 MA's), (183, 49248), (236, 49410), (261, 49518), (326, 49704), (329, 49713),

Gene: Pigu_64 Start: 35339, Stop: 35920, Start Num: 157
Candidate Starts for Pigu_64:
(61, 35036), (Start: 152 @35327 has 1 MA's), (Start: 157 @35339 has 1 MA's), (174, 35402), (222, 35546), (223, 35549), (243, 35633), (305, 35741), (324, 35801),

Gene: Pimento_75 Start: 48276, Stop: 49151, Start Num: 107
Candidate Starts for Pimento_75:
(43, 48075), (45, 48078), (Start: 107 @48276 has 14 MA's), (140, 48369), (202, 48570), (209, 48585), (212, 48600), (277, 48840), (308, 48939), (326, 48987), (336, 49026), (370, 49134),

Gene: Piper2020_91 Start: 53066, Stop: 53971, Start Num: 102
Candidate Starts for Piper2020_91:
(Start: 102 @53066 has 67 MA's), (130, 53144), (217, 53429), (232, 53480), (243, 53528), (253, 53558), (278, 53672), (296, 53738), (341, 53876), (344, 53882), (353, 53906), (360, 53930), (362, 53939),

Gene: Pipp_82 Start: 48884, Stop: 49675, Start Num: 122

Candidate Starts for Pipp_82:
(48, 48650), (51, 48665), (52, 48671), (67, 48728), (Start: 122 @48884 has 1 MA's), (Start: 126 @48893 has 53 MA's), (183, 49076), (233, 49226), (326, 49532), (329, 49541), (334, 49565),

Gene: Pitbull_74 Start: 38878, Stop: 39600, Start Num: 127
Candidate Starts for Pitbull_74:
(49, 38620), (55, 38650), (80, 38725), (88, 38758), (89, 38773), (94, 38782), (Start: 127 @38878 has 4 MA's), (139, 38908), (158, 38968), (164, 38995), (165, 38998), (186, 39049), (206, 39097), (231, 39187), (267, 39325), (273, 39352), (280, 39385), (323, 39487), (332, 39520), (358, 39583),

Gene: Polkaroo_67 Start: 43777, Stop: 44679, Start Num: 102
Candidate Starts for Polkaroo_67:
(17, 43258), (39, 43573), (77, 43702), (91, 43747), (Start: 102 @43777 has 67 MA's), (116, 43819), (147, 43909), (206, 44098), (207, 44101), (232, 44191), (278, 44383), (285, 44416), (305, 44470), (318, 44512), (333, 44563), (344, 44593), (358, 44632), (360, 44641),

Gene: PrincePatrick_79 Start: 47344, Stop: 48120, Start Num: 126
Candidate Starts for PrincePatrick_79:
(Start: 126 @47344 has 53 MA's), (183, 47524), (209, 47587), (210, 47596), (236, 47686), (319, 47959), (326, 47980), (329, 47989), (354, 48067),

Gene: Purky_78 Start: 47557, Stop: 48462, Start Num: 102
Candidate Starts for Purky_78:
(Start: 102 @47557 has 67 MA's), (130, 47635), (191, 47830), (217, 47920), (243, 48019), (278, 48163), (286, 48199), (328, 48322), (344, 48373), (353, 48397), (360, 48421), (362, 48430),

Gene: Pygmy_69 Start: 43495, Stop: 44397, Start Num: 102
Candidate Starts for Pygmy_69:
(17, 42976), (39, 43291), (77, 43420), (91, 43465), (Start: 102 @43495 has 67 MA's), (116, 43537), (147, 43627), (187, 43759), (206, 43816), (207, 43819), (232, 43909), (278, 44101), (285, 44134), (305, 44188), (318, 44230), (333, 44281), (344, 44311), (358, 44350), (360, 44359),

Gene: QueenHazel_61 Start: 41353, Stop: 42255, Start Num: 102
Candidate Starts for QueenHazel_61:
(62, 41236), (66, 41254), (Start: 102 @41353 has 67 MA's), (206, 41674), (217, 41716), (232, 41767), (278, 41959), (285, 41992), (305, 42046), (318, 42088), (344, 42169), (358, 42208), (360, 42217),

Gene: RadFad_96 Start: 50345, Stop: 51079, Start Num: 154
Candidate Starts for RadFad_96:
(Start: 154 @50345 has 54 MA's), (194, 50468), (213, 50528), (276, 50768), (363, 51053),

Gene: Raphaella_91 Start: 49416, Stop: 50039, Start Num: 154
Candidate Starts for Raphaella_91:
(Start: 154 @49416 has 54 MA's), (201, 49563), (220, 49626), (229, 49662), (323, 49887), (340, 49944), (358, 49989), (363, 50010),

Gene: Raqqa_95 Start: 51202, Stop: 51939, Start Num: 153
Candidate Starts for Raqqa_95:
(153, 51202), (173, 51271), (179, 51292), (194, 51328), (276, 51628), (363, 51913),

Gene: Raya_72 Start: 38145, Stop: 38867, Start Num: 127
Candidate Starts for Raya_72:

(Start: 127 @38145 has 4 MA's), (158, 38235), (164, 38262), (165, 38265), (175, 38289), (186, 38316), (199, 38349), (231, 38454), (238, 38481), (239, 38484), (273, 38619), (323, 38754), (358, 38850),

Gene: RegnumDei_102 Start: 55850, Stop: 56620, Start Num: 119
Candidate Starts for RegnumDei_102:
(Start: 119 @55850 has 2 MA's), (141, 55898), (151, 55934), (155, 55943), (168, 55991), (205, 56093), (230, 56174), (240, 56210), (251, 56246), (265, 56306), (283, 56363), (287, 56375), (302, 56414), (310, 56444), (316, 56456), (321, 56468),

Gene: Reyja_61 Start: 39095, Stop: 39976, Start Num: 97
Candidate Starts for Reyja_61:
(86, 39041), (Start: 97 @39095 has 7 MA's), (305, 39758), (354, 39908), (359, 39923),

Gene: Richie_94 Start: 50994, Stop: 51728, Start Num: 154
Candidate Starts for Richie_94:
(Start: 154 @50994 has 54 MA's), (173, 51060), (194, 51117), (213, 51177), (276, 51417), (363, 51702),

Gene: Rooter_70 Start: 37379, Stop: 37972, Start Num: 152
Candidate Starts for Rooter_70:
(Start: 152 @37379 has 1 MA's), (Start: 157 @37391 has 1 MA's), (174, 37454), (184, 37481), (222, 37598), (223, 37601), (226, 37616), (243, 37685), (305, 37793), (324, 37853), (337, 37895),

Gene: Ruthy_71 Start: 49474, Stop: 50355, Start Num: 104
Candidate Starts for Ruthy_71:
(10, 48862), (13, 48916), (36, 49222), (Start: 104 @49474 has 4 MA's), (209, 49786),

Gene: SFuller_99 Start: 57309, Stop: 58004, Start Num: 142
Candidate Starts for SFuller_99:
(Start: 142 @57309 has 3 MA's), (148, 57327), (161, 57366), (173, 57408), (193, 57450), (203, 57486), (223, 57558), (245, 57636), (256, 57681), (277, 57747), (305, 57828), (316, 57864), (327, 57897), (328, 57900), (339, 57936), (346, 57957), (360, 57996),

Gene: Sakai_88 Start: 49861, Stop: 50595, Start Num: 154
Candidate Starts for Sakai_88:
(Start: 154 @49861 has 54 MA's), (194, 49984), (276, 50284), (363, 50569),

Gene: Samba_77 Start: 49525, Stop: 50301, Start Num: 126
Candidate Starts for Samba_77:
(51, 49306), (Start: 126 @49525 has 53 MA's), (183, 49702), (210, 49774), (225, 49831), (233, 49852), (236, 49864), (261, 49972), (326, 50158), (329, 50167), (334, 50191), (354, 50245),

Gene: Santhid_55 Start: 36515, Stop: 37387, Start Num: 97
Candidate Starts for Santhid_55:
(9, 35897), (25, 36176), (27, 36209), (40, 36305), (88, 36476), (Start: 97 @36515 has 7 MA's), (170, 36740), (227, 36911), (305, 37169), (354, 37319), (359, 37334),

Gene: Sarge_63 Start: 34201, Stop: 34944, Start Num: 154
Candidate Starts for Sarge_63:
(Start: 154 @34201 has 54 MA's), (179, 34288), (224, 34426), (295, 34594), (343, 34738), (348, 34753), (371, 34876), (372, 34888),

Gene: Sashimi_92 Start: 50240, Stop: 50863, Start Num: 154

Candidate Starts for Sashimi_92:
(Start: 154 @50240 has 54 MA's), (173, 50306), (184, 50336), (227, 50480), (245, 50546), (250, 50558), (323, 50711), (330, 50732), (340, 50768), (358, 50813), (363, 50834),

Gene: Satrap_90 Start: 49772, Stop: 50506, Start Num: 154
Candidate Starts for Satrap_90:
(Start: 154 @49772 has 54 MA's), (194, 49895), (276, 50195), (363, 50480),

Gene: Sbash_79 Start: 50602, Stop: 51504, Start Num: 102
Candidate Starts for Sbash_79:
(67, 50491), (74, 50509), (Start: 102 @50602 has 67 MA's), (124, 50668), (130, 50680), (144, 50725), (147, 50734), (209, 50932), (217, 50965), (232, 51016), (243, 51064), (253, 51094), (278, 51208), (286, 51244), (328, 51367), (333, 51388), (344, 51418), (353, 51442),

Gene: Seahorse_97 Start: 54507, Stop: 55130, Start Num: 154
Candidate Starts for Seahorse_97:
(Start: 154 @54507 has 54 MA's), (220, 54717), (229, 54753), (323, 54978), (330, 54999), (336, 55023), (358, 55080), (363, 55101),

Gene: Shagrat_105 Start: 54894, Stop: 55640, Start Num: 132
Candidate Starts for Shagrat_105:
(41, 54600), (Start: 98 @54804 has 1 MA's), (112, 54837), (Start: 132 @54894 has 1 MA's), (145, 54939), (149, 54954), (155, 54969), (205, 55119), (230, 55200), (240, 55236), (251, 55272), (258, 55299), (283, 55386), (284, 55389), (302, 55437), (310, 55467), (316, 55479), (321, 55491), (328, 55515),

Gene: ShawBrad_103 Start: 52546, Stop: 53271, Start Num: 125
Candidate Starts for ShawBrad_103:
(Start: 125 @52546 has 15 MA's), (162, 52657), (227, 52834), (264, 52984), (270, 52999), (292, 53080), (298, 53089), (299, 53092), (333, 53200), (349, 53245), (351, 53248),

Gene: Shipwreck_68 Start: 43470, Stop: 44372, Start Num: 102
Candidate Starts for Shipwreck_68:
(17, 42951), (39, 43266), (77, 43395), (91, 43440), (Start: 102 @43470 has 67 MA's), (116, 43512), (147, 43602), (187, 43734), (206, 43791), (207, 43794), (232, 43884), (278, 44076), (318, 44205), (333, 44256), (344, 44286), (358, 44325), (360, 44334),

Gene: Shlim410_73 Start: 50324, Stop: 51061, Start Num: 125
Candidate Starts for Shlim410_73:
(50, 50078), (90, 50225), (Start: 104 @50267 has 4 MA's), (Start: 125 @50324 has 15 MA's), (144, 50366), (Start: 154 @50399 has 54 MA's), (183, 50480), (185, 50483), (233, 50630), (270, 50780), (292, 50861), (299, 50873),

Gene: Shoya_66 Start: 36590, Stop: 37177, Start Num: 154
Candidate Starts for Shoya_66:
(Start: 117 @36482 has 1 MA's), (Start: 154 @36590 has 54 MA's), (213, 36773), (305, 37001), (324, 37061), (337, 37103), (354, 37142),

Gene: Shukran_88 Start: 48250, Stop: 48999, Start Num: 154
Candidate Starts for Shukran_88:
(Start: 154 @48250 has 54 MA's), (Start: 156 @48256 has 1 MA's), (167, 48295), (179, 48337), (190, 48358), (197, 48379), (217, 48448), (222, 48469), (243, 48556), (245, 48559), (282, 48718),

Gene: Skitty_69 Start: 37268, Stop: 38008, Start Num: 127
Candidate Starts for Skitty_69:
(Start: 125 @37265 has 15 MA's), (Start: 127 @37268 has 4 MA's), (158, 37358), (164, 37385), (165, 37388), (186, 37439), (199, 37472), (231, 37577), (239, 37607), (273, 37739), (297, 37808), (307, 37832), (360, 37979),

Gene: Skyerus_67 Start: 36263, Stop: 36985, Start Num: 127
Candidate Starts for Skyerus_67:
(Start: 127 @36263 has 4 MA's), (158, 36353), (164, 36380), (165, 36383), (175, 36407), (186, 36434), (199, 36467), (231, 36572), (238, 36599), (239, 36602), (273, 36737), (323, 36872), (358, 36968),

Gene: Sleepyhead_65 Start: 41971, Stop: 42924, Start Num: 96
Candidate Starts for Sleepyhead_65:
(Start: 96 @41971 has 2 MA's), (136, 42088), (144, 42118), (180, 42250), (189, 42268), (224, 42391), (241, 42454), (249, 42478), (278, 42616), (292, 42670), (294, 42673),

Gene: Soilmate_81 Start: 52043, Stop: 52804, Start Num: 126
Candidate Starts for Soilmate_81:
(Start: 126 @52043 has 53 MA's), (183, 52220), (199, 52259), (209, 52283), (210, 52292), (236, 52382), (261, 52490), (326, 52676), (329, 52685),

Gene: SonDevVon_99 Start: 50820, Stop: 51554, Start Num: 154
Candidate Starts for SonDevVon_99:
(92, 50637), (Start: 127 @50739 has 4 MA's), (Start: 154 @50820 has 54 MA's), (173, 50886), (194, 50943), (213, 51003), (276, 51243), (363, 51528),

Gene: Sonah_66 Start: 41167, Stop: 42069, Start Num: 102
Candidate Starts for Sonah_66:
(17, 40648), (39, 40963), (77, 41092), (91, 41137), (Start: 102 @41167 has 67 MA's), (116, 41209), (187, 41431), (206, 41488), (207, 41491), (232, 41581), (278, 41773), (318, 41902), (333, 41953), (344, 41983), (358, 42022), (360, 42031),

Gene: Sonali_80 Start: 50220, Stop: 51053, Start Num: 118
Candidate Starts for Sonali_80:
(Start: 118 @50220 has 3 MA's), (Start: 154 @50325 has 54 MA's), (159, 50343), (180, 50406), (202, 50460), (210, 50484), (218, 50511), (219, 50514), (263, 50688), (358, 51000),

Gene: SpicyFrank_93 Start: 49913, Stop: 50500, Start Num: 154
Candidate Starts for SpicyFrank_93:
(Start: 154 @49913 has 54 MA's), (Start: 156 @49919 has 1 MA's), (173, 49979), (194, 50036), (213, 50096), (305, 50324), (324, 50384), (337, 50426), (354, 50465),

Gene: Sporco_94 Start: 51583, Stop: 52317, Start Num: 154
Candidate Starts for Sporco_94:
(Start: 127 @51502 has 4 MA's), (Start: 154 @51583 has 54 MA's), (173, 51649), (194, 51706), (213, 51766), (276, 52006), (363, 52291),

Gene: StevieRay_70 Start: 44234, Stop: 45136, Start Num: 102
Candidate Starts for StevieRay_70:
(17, 43715), (39, 44030), (77, 44159), (91, 44204), (Start: 102 @44234 has 67 MA's), (116, 44276), (147, 44366), (206, 44555), (207, 44558), (232, 44648), (278, 44840), (318, 44969), (344, 45050), (360, 45098),

Gene: StressBall_65 Start: 42765, Stop: 43667, Start Num: 102
Candidate Starts for StressBall_65:
(17, 42246), (39, 42561), (77, 42690), (91, 42735), (Start: 102 @42765 has 67 MA's), (116, 42807), (206, 43086), (207, 43089), (232, 43179), (278, 43371), (285, 43404), (305, 43458), (318, 43500), (333, 43551), (344, 43581), (358, 43620), (360, 43629),

Gene: Stuck_75 Start: 49856, Stop: 50758, Start Num: 102
Candidate Starts for Stuck_75:
(Start: 102 @49856 has 67 MA's), (130, 49934), (206, 50177), (217, 50219), (232, 50270), (243, 50318), (263, 50396), (286, 50498), (328, 50621), (333, 50642), (344, 50672), (353, 50696),

Gene: Sunshine23_81 Start: 50194, Stop: 51027, Start Num: 118
Candidate Starts for Sunshine23_81:
(73, 50056), (Start: 118 @50194 has 3 MA's), (Start: 154 @50299 has 54 MA's), (159, 50317), (180, 50380), (202, 50434), (210, 50458), (218, 50485), (219, 50488), (263, 50662), (358, 50974),

Gene: SussRoloMann_73 Start: 48191, Stop: 49066, Start Num: 107
Candidate Starts for SussRoloMann_73:
(53, 48020), (92, 48152), (103, 48185), (Start: 107 @48191 has 14 MA's), (140, 48284), (181, 48431), (209, 48500), (212, 48515), (277, 48755), (308, 48854), (336, 48941), (370, 49049),

Gene: Tarzan_59 Start: 37877, Stop: 38749, Start Num: 97
Candidate Starts for Tarzan_59:
(Start: 97 @37877 has 7 MA's), (Start: 102 @37889 has 67 MA's), (170, 38102), (305, 38531), (354, 38681), (359, 38696),

Gene: Techage_66 Start: 42044, Stop: 42946, Start Num: 102
Candidate Starts for Techage_66:
(19, 41552), (39, 41840), (77, 41969), (91, 42014), (Start: 102 @42044 has 67 MA's), (116, 42086), (206, 42365), (207, 42368), (232, 42458), (278, 42650), (285, 42683), (305, 42737), (318, 42779), (333, 42830), (344, 42860), (358, 42899), (360, 42908),

Gene: ThayneTheZag_98 Start: 51748, Stop: 52335, Start Num: 154
Candidate Starts for ThayneTheZag_98:
(Start: 154 @51748 has 54 MA's), (305, 52159), (324, 52219), (337, 52261), (354, 52300),

Gene: Thespis_67 Start: 43000, Stop: 43902, Start Num: 102
Candidate Starts for Thespis_67:
(17, 42481), (39, 42796), (77, 42925), (91, 42970), (Start: 102 @43000 has 67 MA's), (116, 43042), (206, 43321), (207, 43324), (232, 43414), (278, 43606), (318, 43735), (344, 43816), (360, 43864),

Gene: ThulaThula_73 Start: 47020, Stop: 47925, Start Num: 102
Candidate Starts for ThulaThula_73:
(18, 46501), (39, 46804), (77, 46933), (91, 46990), (Start: 102 @47020 has 67 MA's), (Start: 109 @47035 has 1 MA's), (130, 47098), (147, 47152), (206, 47341), (217, 47383), (232, 47434), (243, 47482), (253, 47512), (263, 47560), (278, 47626), (286, 47662), (328, 47785), (344, 47836), (353, 47860), (360, 47884), (362, 47893),

Gene: Tiff81_86 Start: 48536, Stop: 49159, Start Num: 154
Candidate Starts for Tiff81_86:
(Start: 154 @48536 has 54 MA's), (201, 48683), (220, 48746), (229, 48782), (323, 49007), (330, 49028), (336, 49052), (358, 49109), (363, 49130),

Gene: Toast_77 Start: 47524, Stop: 48300, Start Num: 126
Candidate Starts for Toast_77:
(Start: 126 @47524 has 53 MA's), (183, 47704), (209, 47767), (210, 47776), (236, 47866), (319, 48139), (326, 48160), (329, 48169), (354, 48247),

Gene: TootsiePop_86 Start: 52818, Stop: 53723, Start Num: 102
Candidate Starts for TootsiePop_86:
(Start: 102 @52818 has 67 MA's), (130, 52896), (217, 53181), (232, 53232), (243, 53280), (253, 53310), (278, 53424), (296, 53490), (341, 53628), (344, 53634), (353, 53658), (360, 53682), (362, 53691),

Gene: Tortellini_71 Start: 46722, Stop: 47627, Start Num: 102
Candidate Starts for Tortellini_71:
(Start: 102 @46722 has 67 MA's), (130, 46800), (206, 47043), (209, 47052), (217, 47085), (232, 47136), (243, 47184), (253, 47214), (278, 47328), (285, 47361), (296, 47394), (333, 47508), (344, 47538), (353, 47562), (360, 47586), (362, 47595),

Gene: TripleJ_82 Start: 43869, Stop: 44699, Start Num: 115
Candidate Starts for TripleJ_82:
(Start: 115 @43869 has 4 MA's), (177, 44073), (253, 44307), (255, 44319), (260, 44334), (291, 44436), (310, 44493), (316, 44508), (360, 44640), (368, 44670),

Gene: Twinkle_74 Start: 51383, Stop: 52120, Start Num: 125
Candidate Starts for Twinkle_74:
(50, 51137), (90, 51284), (Start: 104 @51326 has 4 MA's), (Start: 125 @51383 has 15 MA's), (144, 51425), (Start: 154 @51458 has 54 MA's), (183, 51539), (185, 51542), (233, 51689), (270, 51839), (292, 51920), (299, 51932),

Gene: UmaThurman_80 Start: 47661, Stop: 48437, Start Num: 126
Candidate Starts for UmaThurman_80:
(Start: 126 @47661 has 53 MA's), (183, 47838), (210, 47910), (225, 47967), (227, 47973), (233, 47988), (236, 48000), (261, 48108), (326, 48294), (329, 48303),

Gene: Utz_68 Start: 47303, Stop: 48079, Start Num: 126
Candidate Starts for Utz_68:
(44, 47054), (Start: 126 @47303 has 53 MA's), (183, 47480), (210, 47552), (225, 47609), (227, 47615), (233, 47630), (236, 47642), (261, 47750), (326, 47936), (329, 47945),

Gene: Venti_63 Start: 40452, Stop: 41354, Start Num: 102
Candidate Starts for Venti_63:
(Start: 102 @40452 has 67 MA's), (206, 40773), (217, 40815), (232, 40866), (278, 41058), (285, 41091), (305, 41145), (318, 41187), (333, 41238), (344, 41268), (358, 41307), (360, 41316),

Gene: Vidya_64 Start: 41288, Stop: 42190, Start Num: 102
Candidate Starts for Vidya_64:
(17, 40769), (39, 41084), (77, 41213), (91, 41258), (Start: 102 @41288 has 67 MA's), (116, 41330), (206, 41609), (207, 41612), (232, 41702), (278, 41894), (318, 42023), (344, 42104), (360, 42152),

Gene: Vopal_92 Start: 51482, Stop: 52105, Start Num: 154
Candidate Starts for Vopal_92:
(Start: 154 @51482 has 54 MA's), (201, 51629), (220, 51692), (229, 51728), (323, 51953), (340, 52010), (358, 52055), (363, 52076),

Gene: WST1_58 Start: 34901, Stop: 35776, Start Num: 115
Candidate Starts for WST1_58:
(100, 34865), (Start: 115 @34901 has 4 MA's), (141, 34982), (173, 35096), (190, 35138), (195, 35153), (211, 35207), (300, 35537), (303, 35543), (333, 35645), (336, 35657), (357, 35723), (366, 35762),

Gene: Walrus_77 Start: 48349, Stop: 49125, Start Num: 126
Candidate Starts for Walrus_77:
(32, 48034), (54, 48142), (58, 48151), (82, 48217), (84, 48223), (Start: 126 @48349 has 53 MA's), (183, 48526), (236, 48688), (261, 48796), (326, 48982), (329, 48991),

Gene: Whack_70 Start: 45809, Stop: 46741, Start Num: 96
Candidate Starts for Whack_70:
(1, 44903), (2, 44915), (3, 44963), (4, 44984), (5, 45032), (6, 45044), (7, 45050), (8, 45080), (12, 45239), (16, 45278), (24, 45455), (60, 45686), (79, 45746), (85, 45764), (Start: 96 @45809 has 2 MA's), (Start: 117 @45875 has 1 MA's), (128, 45905), (144, 45956), (173, 46067), (203, 46148), (234, 46259), (241, 46286), (257, 46349), (262, 46376), (278, 46448), (292, 46502), (294, 46505), (332, 46616), (350, 46670), (358, 46691),

Gene: WheatThin_72 Start: 48179, Stop: 49054, Start Num: 107
Candidate Starts for WheatThin_72:
(53, 48008), (92, 48140), (103, 48173), (Start: 107 @48179 has 14 MA's), (140, 48272), (181, 48419), (209, 48488), (212, 48503), (277, 48743), (308, 48842), (336, 48929), (370, 49037),

Gene: William_79 Start: 48596, Stop: 49372, Start Num: 126
Candidate Starts for William_79:
(22, 48164), (Start: 126 @48596 has 53 MA's), (183, 48776), (319, 49211), (326, 49232), (329, 49241), (354, 49319),

Gene: Willsammy_67 Start: 43249, Stop: 44151, Start Num: 102
Candidate Starts for Willsammy_67:
(17, 42730), (39, 43045), (77, 43174), (91, 43219), (Start: 102 @43249 has 67 MA's), (116, 43291), (206, 43570), (207, 43573), (232, 43663), (278, 43855), (285, 43888), (305, 43942), (318, 43984), (333, 44035), (344, 44065), (358, 44104), (360, 44113),

Gene: Windest_96 Start: 49507, Stop: 50121, Start Num: 154
Candidate Starts for Windest_96:
(108, 49369), (Start: 117 @49399 has 1 MA's), (Start: 127 @49426 has 4 MA's), (Start: 154 @49507 has 54 MA's), (194, 49630), (197, 49636), (305, 49921), (324, 49981),

Gene: Wisp_73 Start: 47248, Stop: 48024, Start Num: 126
Candidate Starts for Wisp_73:
(82, 47116), (Start: 126 @47248 has 53 MA's), (183, 47425), (210, 47497), (233, 47575), (236, 47587), (261, 47695), (284, 47761), (326, 47881), (329, 47890),

Gene: Wocket_77 Start: 47897, Stop: 48673, Start Num: 126
Candidate Starts for Wocket_77:
(Start: 126 @47897 has 53 MA's), (183, 48074), (210, 48146), (225, 48203), (233, 48224), (236, 48236), (261, 48344), (326, 48530), (329, 48539),

Gene: Xavia_67 Start: 47327, Stop: 48229, Start Num: 102
Candidate Starts for Xavia_67:
(20, 46886), (39, 47123), (77, 47252), (91, 47297), (Start: 102 @47327 has 67 MA's), (116, 47369), (147, 47459), (187, 47591), (206, 47648), (217, 47690), (232, 47741), (243, 47789), (253, 47819),

(263, 47867), (272, 47909), (286, 47969), (328, 48092), (344, 48143), (353, 48167), (360, 48191), (362, 48200),

Gene: Xula_61 Start: 41279, Stop: 42181, Start Num: 102
Candidate Starts for Xula_61:
(Start: 102 @41279 has 67 MA's), (206, 41600), (207, 41603), (217, 41642), (232, 41693), (278, 41885), (285, 41918), (305, 41972), (318, 42014), (328, 42044), (344, 42095), (360, 42143),

Gene: YoungHarleezy_92 Start: 50740, Stop: 51354, Start Num: 154
Candidate Starts for YoungHarleezy_92:
(108, 50602), (Start: 117 @50632 has 1 MA's), (Start: 127 @50659 has 4 MA's), (Start: 154 @50740 has 54 MA's), (194, 50863), (197, 50869), (305, 51154), (324, 51214),

Gene: Zarbodnamra_81 Start: 47607, Stop: 48383, Start Num: 126
Candidate Starts for Zarbodnamra_81:
(Start: 126 @47607 has 53 MA's), (183, 47784), (210, 47856), (225, 47913), (233, 47934), (236, 47946), (261, 48054), (308, 48192), (326, 48240), (329, 48249),

Gene: ZiggyZoo_78 Start: 49093, Stop: 49869, Start Num: 126
Candidate Starts for ZiggyZoo_78:
(51, 48874), (Start: 126 @49093 has 53 MA's), (183, 49270), (210, 49342), (233, 49420), (236, 49432), (261, 49540), (326, 49726), (329, 49735), (334, 49759),

Gene: Zilizebeth_71 Start: 42809, Stop: 43711, Start Num: 102
Candidate Starts for Zilizebeth_71:
(39, 42605), (77, 42734), (91, 42779), (Start: 102 @42809 has 67 MA's), (116, 42851), (206, 43130), (207, 43133), (232, 43223), (278, 43415), (285, 43448), (305, 43502), (318, 43544), (333, 43595), (344, 43625), (358, 43664), (360, 43673),

Gene: Zilla_74 Start: 46460, Stop: 47236, Start Num: 126
Candidate Starts for Zilla_74:
(Start: 126 @46460 has 53 MA's), (183, 46637), (210, 46709), (233, 46787), (236, 46799), (261, 46907), (326, 47093), (329, 47102),

Gene: Zucker_91 Start: 51104, Stop: 51700, Start Num: 154
Candidate Starts for Zucker_91:
(Start: 154 @51104 has 54 MA's), (188, 51209), (194, 51227), (201, 51251), (243, 51407), (305, 51515),