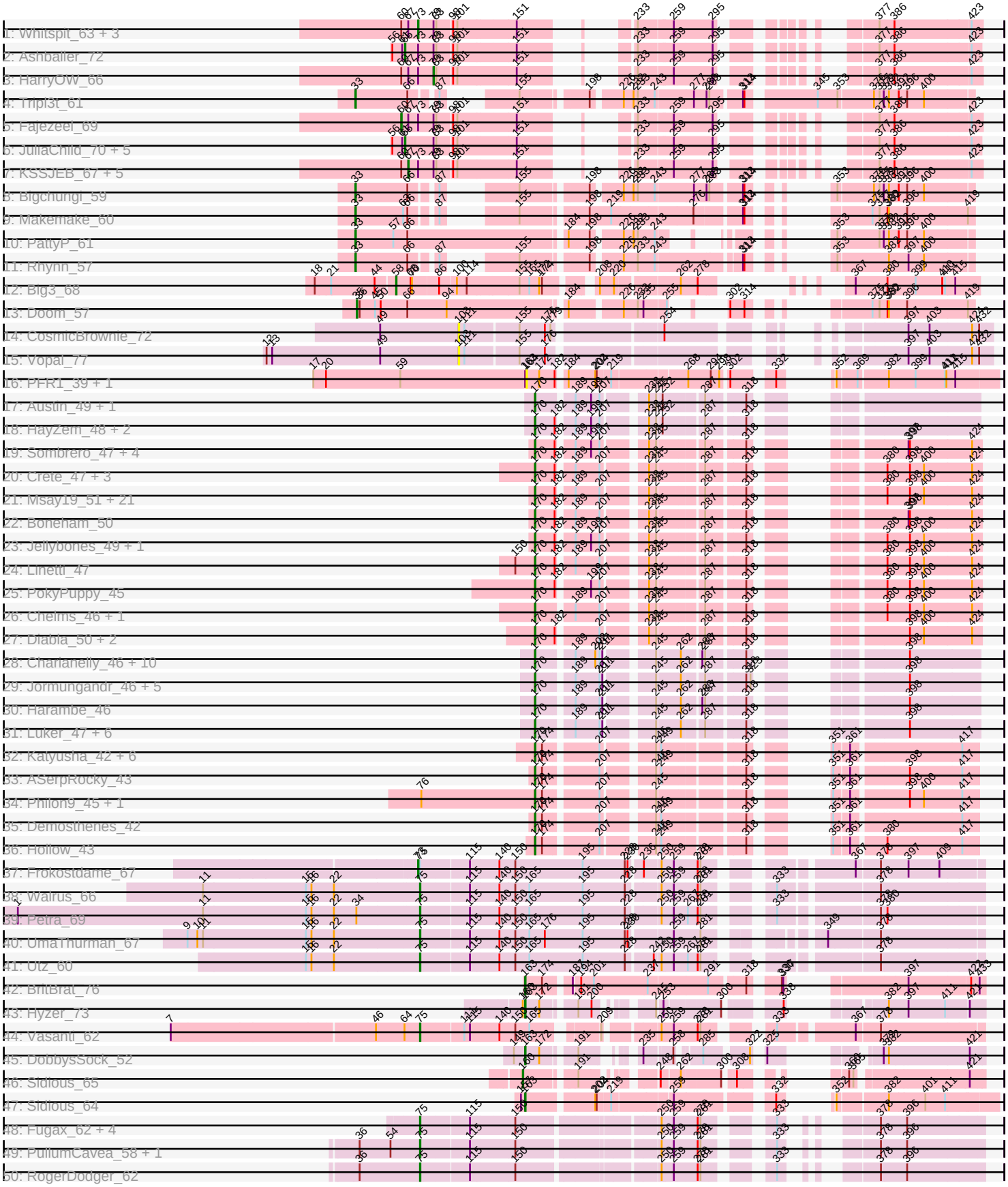
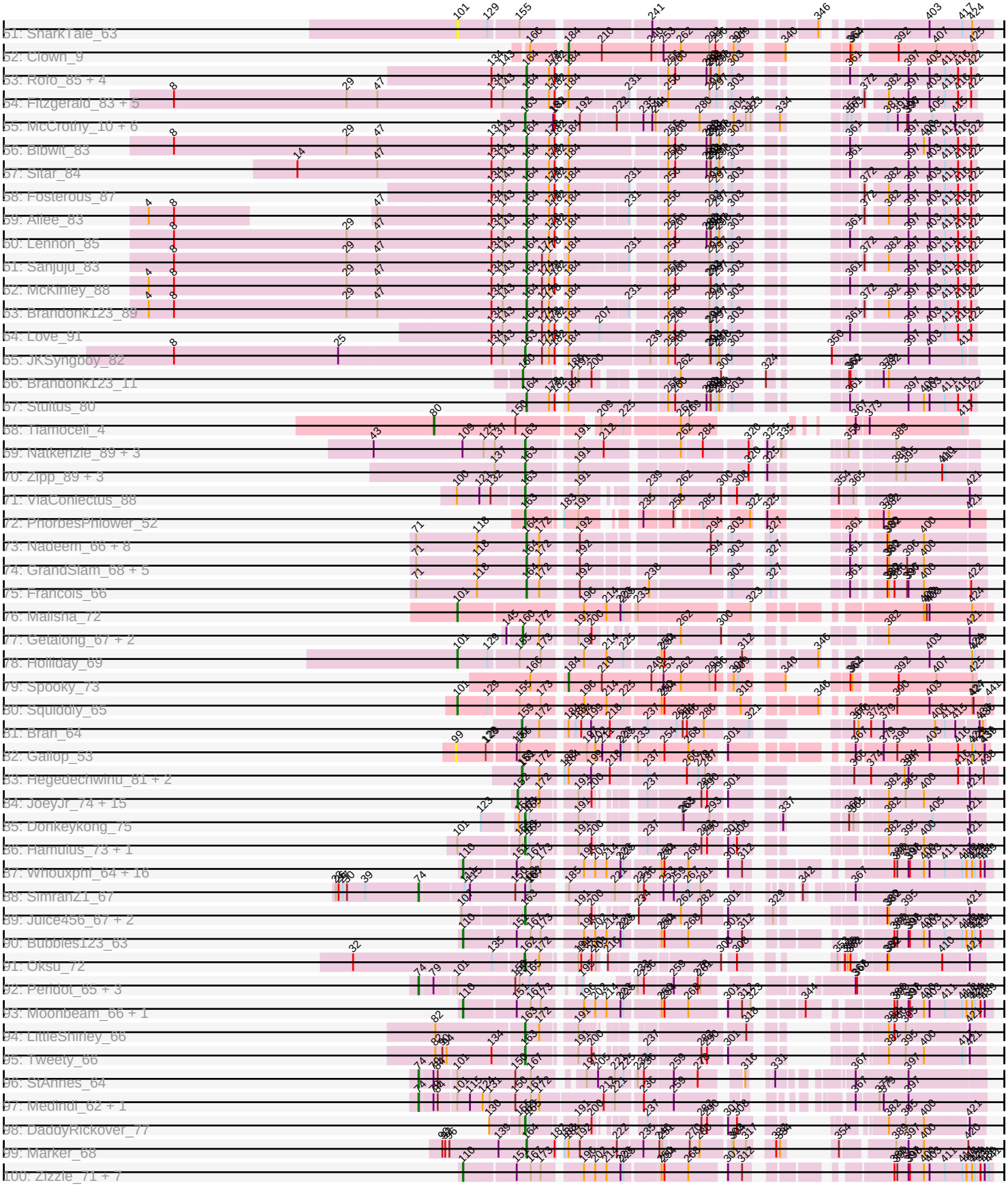
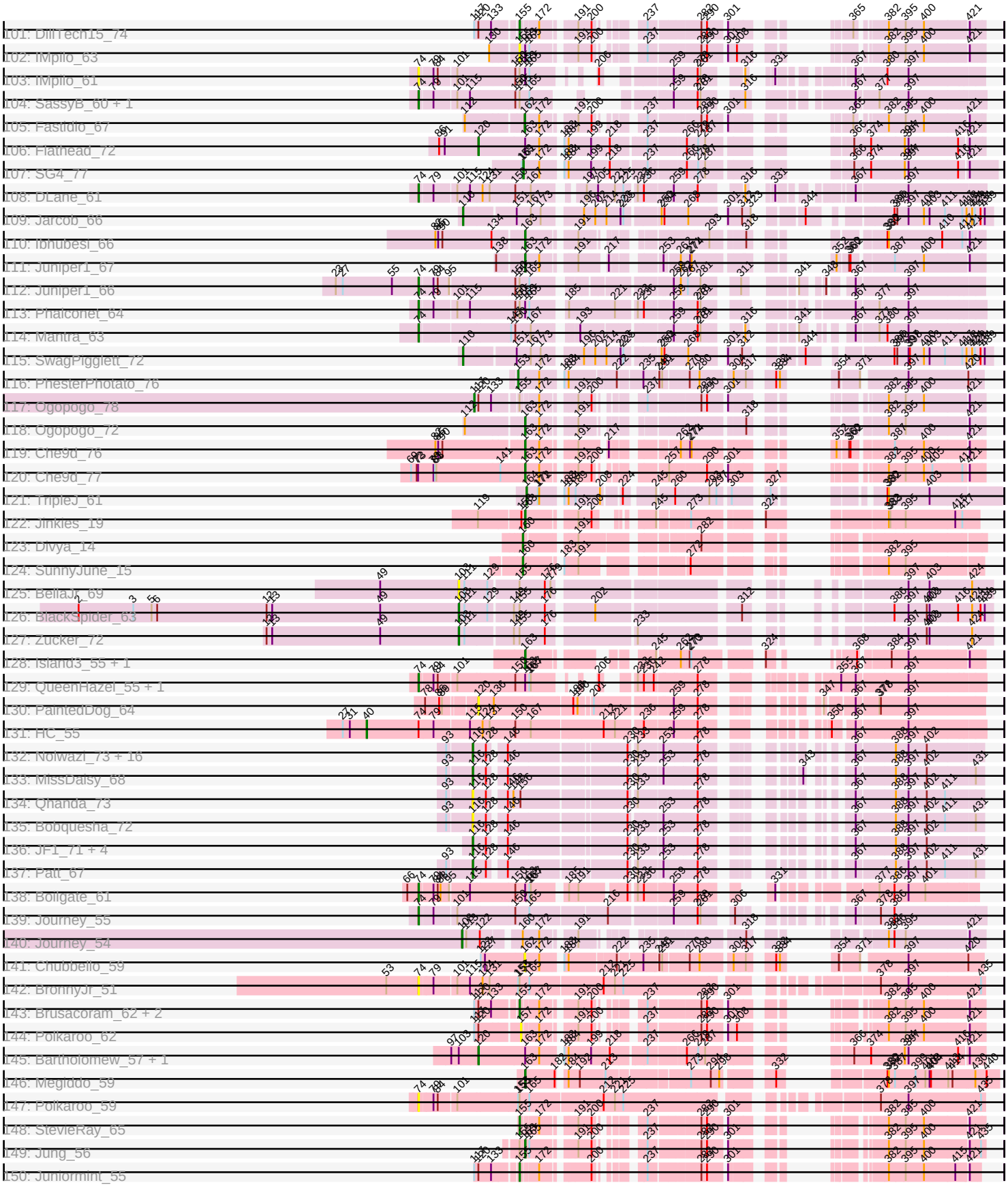
Pham 345268


1: Whitspit_63 + 3
2: Ashballer_72
3: HarryOW_66
4: Tripl3t_61
5: Fajezeel_69
6: JuliaChild_70 + 5
7: KSSJEB_67 + 5
8: Bigchungi_59
9: Makemake_60
10: PattyP_61
11: Rhynn_57
12: Big3_68
13: Doom_57
14: CosmicBrownie_72
15: Vopal_77
16: PFR1_39 + 1
17: Austin_49 + 1
18: HayZem_48 + 2
19: Sombrero_47 + 4
20: Crete_47 + 3
21: Msay19_51 + 21
22: Boneham_50
23: Jellybones_49 + 1
24: Linetti_47
25: PokyPuppy_45
26: Chelms_46 + 1
27: Diabla_50 + 2
28: Charlanelly_46 + 10
29: Jormungandr_46 + 5
30: Harambe_46
31: Luker_47 + 6
32: Katyusha_42 + 6
33: ASerpRocky_43
34: Philon9_45 + 1
35: Demosthenes_42
36: Hollow_43
37: Frokostdame_67
38: Walrus_66
39: Petra_69
40: UmaThurman_67
41: Otz_60
42: BritBrat_76
43: Hyzer_73
44: Vasanti_62
45: DobbysSock_52
46: Sidious_65
47: Sidious_64
48: Fugax_62 + 4
49: PulumCavea_58 + 1
50: RogerDodger_62

Pham 345268


51: SharkTale_63
52: Clown_9
53: Rolo_85 + 4
54: Fitzgerald_83 + 5
55: McCrotny_10 + 6
56: Bibwit_83
57: Sitar_84
58: Fosterous_87
59: Allee_83
60: Lennon_85
61: Sanjuju_83
62: McKinley_88
63: Brandonk123_89
64: Love_91
65: JKSyngboy_82
66: Brandonk123_11
67: Stultus_80
68: Tiamocell_4
69: Natkenzie_89 + 3
70: Zipp_89 + 3
71: ViaConiectus_88
72: PhorbesPhlower_52
73: Nadeem_66 + 8
74: GrandSlam_68 + 5
75: Francois_66
76: Malisha_72
77: Getalong_67 + 2
78: Holliday_69
79: Spooky_73
80: Squiddly_65
81: Bran_64
82: Gallop_53
83: Hegedechwinu_81 + 2
84: JoeyJr_74 + 15
85: Donkeykong_75
86: Hamulus_73 + 1
87: Whouxphi_64 + 16
88: Simran21_67
89: Juice456_67 + 2
90: Bubbles123_63
91: Oksu_72
92: Peridot_65 + 3
93: Moonbeam_66 + 1
94: LittleShirley_66
95: Tweety_66
96: StAnnes_64
97: Medinal_62 + 1
98: DaddyRickover_77
99: Marker_68
100: Zizzie_71 + 7

Pham 345268


I01: DillTech15_74
I02: IMpilo_63
I03: IMpilo_61
I04: SassyB_60 + 1
I05: Fastidio_67
I06: Flathead_72
I07: SG4_77
I08: DLane_61
I09: Jarcob_66
I10: Ishubesi_66
I11: Juniper1_67
I12: Juniper1_66
I13: Phalconet_64
I14: Mantra_63
I15: SwagPiggiett_72
I16: PhesterPhotato_76
I17: Ogopogo_78
I18: Ogopogo_72
I19: Che9d_76
I20: Che9d_77
I21: TripleJ_61
I22: Jinkies_19
I23: Divya_14
I24: SunnyJune_15
I25: BellaJr_69
I26: BlackSpider_63
I27: Zucker_72
I28: Island3_55 + 1
I29: QueenHazel_55 + 1
I30: PaintedDog_64
I31: HC_55
I32: Nolwazi_73 + 16
I33: MissDaisy_68
I34: Qhanda_73
I35: Bobquesha_72
I36: JF1_71 + 4
I37: Patt_67
I38: Boilgate_61
I39: Journey_55
I40: Journey_54
I41: Chubbello_59
I42: BronnyJr_51
I43: Brusacoram_62 + 2
I44: Polkaroo_62
I45: Bartholomew_57 + 1
I46: Megiddo_59
I47: Polkaroo_59
I48: StevieRay_65
I49: Jung_56
I50: Juniormint_55

Pham 345268


151: Gancho_66
152: OBUpride_67 + 18
153: Webster2_67
154: Amochick_68
155: Daegal_70
156: ZenTime222_66 + 4
157: Mendokysei_64
158: Nairo_58
159: Rem711_72
160: 32HC_73
161: TJE1_18
162: DocB7_036
163: Gudmit_63
164: Mbo4_26
165: GMA1_63
166: GAL1_56
167: GMA4_54

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 345268 Report

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

Pham number 345268 has 381 members, 36 are drafts.

Phages represented in each track:
• Track 1 : Whitspit_63, Acme_70, Payneful_66, Greg_69
• Track 2 : Ashballer_72
• Track 3 : HarryOW_66
• Track 4 : Tripl3t_61
• Track 5 : Fajezeel_69
• Track 6 : JuliaChild_70, Lamina13_71, Pita2_70, PSullivan_67, Swole_70, Tote_65
• Track 7 : KSSJEB_67, Wheeler_71, Marchy_62, Watermelon_68, Trouble_68, GrecoEtereo_68
• Track 8 : Bigchungi_59
• Track 9 : Makemake_60
• Track 10 : PattyP_61
• Track 11 : Rhynn_57
• Track 12 : Big3_68
• Track 13 : Doom_57
• Track 14 : CosmicBrownie_72
• Track 15 : Vopal_77
• Track 16 : PFR1_39, PFR2_41
• Track 17 : Austin_49, GMA7_38
• Track 18 : HayZem_48, GTE7_37, Amore2_49
• Track 19 : Sombrero_47, BillyBobJr_52, CinnamonToast_52, FelixAlejandro_51, Butterball_50
• Track 20 : Crete_47, PierreThree_46, BigShaq_46, BenoitCattle_47
• Track 21 : Msay19_51, Hotorobo_46, Flakey_46, Squibbles_46, Gorko_46, Exiguo_46, Sam12_46, CathyBurgh_46, Poland_51, Adgers_48, John316_50, GourdThymes_46, Worcestershire_46, Lizzo_46, Kelzog_48, Beaver_50, RemRem_47, Barbochs_45, BirksAndSocks_51, Ekhein_47, Breezic_46, Monty_45
• Track 22 : Boneham_50
• Track 23 : Jellybones_49, Eggsie_45
• Track 24 : Linetti_47
• Track 25 : PokyPuppy_45
• Track 26 : Chelms_46, Dakiti_47
• Track 27 : Diabla_50, SteveFrench_46, RoyalG_47
• Track 28 : Charianelly_46, Teal_46, Jams_46, Minos_47, Bianmat_46, Kaseim_46, Shelley_46, Nimi13_46, MrWormie_46, Lidong_46, Newt_47
• Track 29 : Jormungandr_46, Anamika_46, Sticker17_46, Hail2Pitt_45, Guillaume_46, Lahirium_46
• Track 30 : Harambe_46

• Track 31 : Luker_47, Berries_46, Neoevie_46, GalacticEye_46, Hello_46, Damp_46, Woes_46
• Track 32 : Katyusha_42, Benczkowski14_42, Kvothe_42, Tredge_43, Teech_43, Teatealatte_43, Niagara_42
• Track 33 : ASerpRocky_43
• Track 34 : Philon9_45, Vitaenoii_45
• Track 35 : Demosthenes_42
• Track 36 : Hollow_43
• Track 37 : Frokostdame_67
• Track 38 : Walrus_66
• Track 39 : Petra_69
• Track 40 : UmaThurman_67
• Track 41 : Utz_60
• Track 42 : BritBrat_76
• Track 43 : Hyzer_73
• Track 44 : Vasanti_62
• Track 45 : DobbysSock_52
• Track 46 : Sidious_65
• Track 47 : Sidious_64
• Track 48 : Fugax_62, Barb_61, PinkCoffee_61, ClamChowder_61, KimmyK_60
• Track 49 : PullumCavea_58, Danyall_60
• Track 50 : RogerDodger_62
• Track 51 : SharkTale_63
• Track 52 : Clown_9
• Track 53 : Rofo_85, Thing3_86, Kamashten_86, Galadriel_86, McCrothy_84
• Track 54 : Fitzgerald_83, Brawn1_82, Sedona_83, Jabberwocky_84, Keitabear_83, BobBob_87
• Track 55 : McCrothy_10, Thing3_10, Love_11, Galadriel_11, MoontowerMania_8, Paries_10, Kamashten_10
• Track 56 : Bibwit_83
• Track 57 : Sitar_84
• Track 58 : Fosterous_87
• Track 59 : Ailee_83
• Track 60 : Lennon_85
• Track 61 : Sanjuju_83
• Track 62 : McKinley_88
• Track 63 : Brandonk123_89
• Track 64 : Love_91
• Track 65 : JKSyngboy_82
• Track 66 : Brandonk123_11
• Track 67 : Stultus_80
• Track 68 : Tiamoceli_4
• Track 69 : Natkenzie_89, Sampson_91, Abblin_89, Scioto_90
• Track 70 : Zipp_89, Verity_88, Delrey21_89, DoctorFroggo_89
• Track 71 : ViaConlectus_88
• Track 72 : PhorbesPhlower_52
• Track 73 : Nadeem_66, Parada_66, WheatThin_65, Brylie_66, SussRoloMann_66, Mulch_66, Bock_68, NancyRae_65, BetterKatz_66
• Track 74 : GrandSlam_68, Ayotoya_67, Hamood_68, Chop_68, Pimento_69, DelRio_67
• Track 75 : Francois_66
• Track 76 : Malisha_72
• Track 77 : Getalong_67, Asapag_64, BotCity_67

• Track 78 : Holliday_69
• Track 79 : Spooky_73
• Track 80 : Squiddly_65
• Track 81 : Bran_64
• Track 82 : Gallop_53
• Track 83 : Hegedechwinu_81, JalFarm20_88, Smooch_24
• Track 84 : JoeyJr_74, Leperchaun_72, Empress_72, Sassafras_75, OldBen_71, Doomphist_77, Poenanya_77, Nimbo_66, PHappiness_74, Geralt_67, Polka14_78, RitaG_74, Daenerys_73, KingMidas_73, Scottish_72, Inventum_72
• Track 85 : Donkeykong_75
• Track 86 : Hamulus_73, LittleShirley_73
• Track 87 : Whouxphf_64, Blexus_65, Maravista_69, Ramsey_66, Priscilla_67, Koella_61, MinionDave_66, CaptainTrips_65, NormanBulbieJr_67, Yorick_66, Beanstalk_65, DaWorst_67, Aubs_67, Spikelee_74, Burwell21_65, Fancypants_70, Cabrinians_68
• Track 88 : SimranZ1_67
• Track 89 : Juice456_67, KristaRAM_69, JalFarm20_79
• Track 90 : Bubbles123_63
• Track 91 : Oksu_72
• Track 92 : Peridot_65, Slim_68, Rialto_71, Emmaloid_68
• Track 93 : Moonbeam_66, Emma_69
• Track 94 : LittleShirley_66
• Track 95 : Tweety_66
• Track 96 : StAnnes_64
• Track 97 : Medindi_62, Filuzino_64
• Track 98 : DaddyRickover_77
• Track 99 : Marker_68
• Track 100 : Zizzle_71, Pippy_66, Estave1_72, Crumble_62, BobaPhett_71, ShowerHandel_70, Jennelsea_65, ByChance_60
• Track 101 : DillTech15_74
• Track 102 : IMpilo_63
• Track 103 : IMpilo_61
• Track 104 : SassyB_60, PopTart_60
• Track 105 : Fastidio_67
• Track 106 : Flathead_72
• Track 107 : SG4_77
• Track 108 : DLane_61
• Track 109 : Jarcob_66
• Track 110 : Ibhubesi_66
• Track 111 : Juniper1_67
• Track 112 : Juniper1_66
• Track 113 : Phalconet_64
• Track 114 : Mantra_63
• Track 115 : SwagPigglett_72
• Track 116 : PhesterPhotato_76
• Track 117 : Ogopogo_78
• Track 118 : Ogopogo_72
• Track 119 : Che9d_76
• Track 120 : Che9d_77
• Track 121 : TripleJ_61
• Track 122 : Jinkies_19
• Track 123 : Divya_14
• Track 124 : SunnyJune_15

• Track 125 : BellaJr_69
• Track 126 : BlackSpider_63
• Track 127 : Zucker_72
• Track 128 : Island3_55, Brujita_55
• Track 129 : QueenHazel_55, Xula_54
• Track 130 : PaintedDog_64
• Track 131 : HC_55
• Track 132 : Nolwazi_73, DanSyl44_74, Eponine_73, Reptar3000_68, Taquito_70, Malthus_72, Chancellor_71, Cheetobro_71, Slarp_71, Fionnbharth_71, Juliette_73, Lebo14_70, YasnayaPolyana_70, Mitti_71, Kraw_71, SamScheppers_69, Wintermute_71
• Track 133 : MissDaisy_68
• Track 134 : Qhanda_73
• Track 135 : Bobquesha_72
• Track 136 : JF1_71, Ruthiejr_72, OmniCritical_70, Y2_68, Y10_68
• Track 137 : Patt_67
• Track 138 : Boilgate_61
• Track 139 : Journey_55
• Track 140 : Journey_54
• Track 141 : Chubbello_59
• Track 142 : BronnyJr_51
• Track 143 : Brusacoram_62, Atcoo_62, Thespis_62
• Track 144 : Polkaroo_62
• Track 145 : Bartholomew_57, Venti_58
• Track 146 : Megiddo_59
• Track 147 : Polkaroo_59
• Track 148 : StevieRay_65
• Track 149 : Jung_56
• Track 150 : Juniormint_55
• Track 151 : Gancho_66
• Track 152 : OBUpride_67, BloominB_66, Giles_62, Forge_62, Evanesce_66, Ein37_67, HH92_66, Kinbote_65, LilHazelnut_67, Dewey_62, Hail_62, Hadrien_66, Gravaillia_63, Wishmaker_62, Ubuntu_67, Luna22_62, DeepSoil15_67, Luke_66, Amymech_67
• Track 153 : Webster2_67
• Track 154 : Amochick_68
• Track 155 : Daegal_70
• Track 156 : ZenTime222_66, Bernal13_60, RonRayGun_60, Ibrahim_60, Whitty_59
• Track 157 : Mendokysei_64
• Track 158 : Nairb_58
• Track 159 : Rem711_72
• Track 160 : 32HC_73
• Track 161 : TJE1_18
• Track 162 : DocB7_036
• Track 163 : Gudmit_63
• Track 164 : Mbo4_26
• Track 165 : GMA1_63
• Track 166 : GAL1_56
• Track 167 : GMA4_54

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

The start number called the most often in the published annotations is 170, it was called in 78 of the 345 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ASerpRocky_43, Adgers_48, Amore2_49, Anamika_46, Austin_49, Barbochs_45, Beaver_50, Benczkowski14_42, BenoitCattle_47, Berries_46, Bianmat_46, BigShaq_46, BillyBobJr_52, BirksAndSocks_51, Boneham_50, Breezic_46, Butterball_50, CathyBurgh_46, Charianelly_46, Chelms_46, CinnamonToast_52, Crete_47, Dakiti_47, Damp_46, Demosthenes_42, Diabla_50, Eggsie_45, Ekhein_47, Exiguo_46, FelixAlejandro_51, Flakey_46, GMA7_38, GTE7_37, GalacticEye_46, Gorko_46, GourdThymes_46, Guillaume_46, Hail2Pitt_45, Harambe_46, HayZem_48, Hello_46, Hollow_43, Hotorobo_46, Jams_46, Jellybones_49, John316_50, Jormungandr_46, Kaseim_46, Katyusha_42, Kelzog_48, Kvothe_42, Lahirium_46, Lidong_46, Linetti_47, Lizzo_46, Luker_47, Minos_47, Monty_45, MrWormie_46, Msay19_51, Neoevie_46, Newt_47, Niagara_42, Nimi13_46, Philon9_45, PierreThree_46, PokyPuppy_45, Poland_51, RemRem_47, RoyalG_47, Sam12_46, Shelley_46, Sombrero_47, Squibbles_46, SteveFrench_46, Sticker17_46, Teal_46, Teatealatte_43, Teech_43, Tredge_43, Vitaenoii_45, Woes_46, Worcestershire_46,

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

Genes that do not have the "Most Annotated" start:
• 32HC_73, Abblin_89, Acme_70, Ailee_83, Amochick_68, Amymech_67, Asapag_64, Ashballer_72, Atcoo_62, Aubs_67, Ayotoya_67, Barb_61, Bartholomew_57, Beanstalk_65, BellaJr_69, Bernal13_60, BetterKatz_66, Bibwit_83, Big3_68, Bigchungi_59, BlackSpider_63, Blexus_65, BloominB_66, BobBob_87, BobaPhett_71, Bobquesha_72, Bock_68, Boilgate_61, BotCity_67, Bran_64, Brandonk123_11, Brandonk123_89, Brawn1_82, BritBrat_76, BronnyJr_51, Brujita_55, Brusacoram_62, Brylie_66, Bubbles123_63, Burwell21_65, ByChance_60, Cabrinians_68, CaptainTrips_65, Chancellor_71, Che9d_76, Che9d_77, Cheetobro_71, Chop_68, Chubbello_59, ClamChowder_61, Clown_9, CosmicBrownie_72, Crumble_62, DLane_61, DaWorst_67, DaddyRickover_77, Daegal_70, Daenerys_73, DanSyl44_74, Danyall_60, DeepSoil15_67, DelRio_67, Delrey21_89, Dewey_62, DillTech15_74, Divya_14, DobbysSock_52, DocB7_036, DoctorFroggo_89, Donkeykong_75, Doom_57, Doomphist_77, Ein37_67, Emma_69, Emmaloid_68, Empress_72, Eponine_73, Estave1_72, Evanesce_66, Fajezeel_69, Fancypants_70, Fastidio_67, Filuzino_64, Fionnbharth_71, Fitzgerald_83, Flathead_72, Forge_62, Fosterous_87, Francois_66, Frokostdame_67, Fugax_62, GAL1_56, GMA1_63, GMA4_54, Galadriel_11, Galadriel_86, Gallop_53, Gancho_66, Geralt_67, Getalong_67, Giles_62, GrandSlam_68, Gravaillia_63, GrecoEtereo_68, Greg_69, Gudmit_63, HC_55, HH92_66, Hadrien_66, Hail_62, Hamood_68, Hamulus_73, HarryOW_66, Hegedechwinu_81, Holliday_69, Hyzer_73, IMpilo_61, IMpilo_63, Ibhubesi_66, Ibrahim_60, Inventum_72, Island3_55, JF1_71, JKSyngboy_82, Jabberwocky_84, JalFarm20_79, JalFarm20_88, Jarcob_66, Jennelsea_65, Jinkies_19, JoeyJr_74, Journey_54, Journey_55, Juice456_67, JuliaChild_70, Juliette_73, Jung_56, Juniormint_55, Juniper1_66, Juniper1_67, KSSJEB_67, Kamashten_10, Kamashten_86, Keitabear_83, KimmyK_60, Kinbote_65, KingMidas_73, Koella_61, Kraw_71, KristaRAM_69, Lamina13_71, Lebo14_70, Lennon_85, Leperchaun_72, LilHazelnut_67, LittleShirley_66, LittleShirley_73, Love_11, Love_91, Luke_66, Luna22_62, Makemake_60,

Malisha_72, Malthus_72, Mantra_63, Maravista_69, Marchy_62, Marker_68, Mbo4_26, McCrothy_10, McCrothy_84, McKinley_88, Medindi_62, Megiddo_59, Mendokysei_64, MinionDave_66, MissDaisy_68, Mitti_71, Moonbeam_66, MoontowerMania_8, Mulch_66, Nadeem_66, Nairb_58, NancyRae_65, Natkenzie_89, Nimbo_66, Nolwazi_73, NormanBulbieJr_67, OBUpride_67, Ogopogo_72, Ogopogo_78, Oksu_72, OldBen_71, OmniCritical_70, PFR1_39, PFR2_41, PHappiness_74, PSullivan_67, PaintedDog_64, Parada_66, Paries_10, Patt_67, PattyP_61, Payneful_66, Peridot_65, Petra_69, Phalconet_64, PhesterPhotato_76, PhorbesPhlower_52, Pimento_69, PinkCoffee_61, Pippy_66, Pita2_70, Poenanya_77, Polka14_78, Polkaroo_59, Polkaroo_62, PopTart_60, Priscilla_67, PullumCavea_58, Qhanda_73, QueenHazel_55, Ramsey_66, Rem711_72, Reptar3000_68, Rhynn_57, Rialto_71, RitaG_74, Rofo_85, RogerDodger_62, RonRayGun_60, Ruthiejr_72, SG4_77, SamScheppers_69, Sampson_91, Sanjuju_83, Sassafras_75, SassyB_60, Scioto_90, Scottish_72, Sedona_83, SharkTale_63, ShowerHandel_70, Sidious_64, Sidious_65, SimranZ1_67, Sitar_84, Slarp_71, Slim_68, Smooch_24, Spikelee_74, Spooky_73, Squiddly_65, StAnnes_64, StevieRay_65, Stultus_80, SunnyJune_15, SussRoloMann_66, SwagPigglett_72, Swole_70, TJE1_18, Taquito_70, Thespis_62, Thing3_10, Thing3_86, Tiamoceli_4, Tote_65, Tripl3t_61, TripleJ_61, Trouble_68, Tweety_66, Ubuntu_67, UmaThurman_67, Utz_60, Vasanti_62, Venti_58, Verity_88, ViaConlectus_88, Vopal_77, Walrus_66, Watermelon_68, Webster2_67, WheatThin_65, Wheeler_71, Whitspit_63, Whitty_59, Whouxphf_64, Wintermute_71, Wishmaker_62, Xula_54, Y10_68, Y2_68, YasnayaPolyana_70, Yorick_66, ZenTime222_66, Zipp_89, Zizzle_71, Zucker_72,

Summary by start number:

Start 33:
• Found in 5 of 381 (1.3%) of genes in pham
• Manual Annotations of this start: 5 of 345
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bigchungi_59 (A1), Makemake_60 (A1), PattyP_61 (A1), Rhynn_57 (A1), Tripl3t_61 (A1),

Start 35:
• Found in 1 of 381 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 345
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Doom_57 (A1),

Start 40:
• Found in 1 of 381 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 345
• Called 100.0% of time when present
• Phage (with cluster) where this start called: HC_55 (I1),

Start 58:
• Found in 1 of 381 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 345
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Big3_68 (A1),

Start 60:

• Found in 12 of 381 (3.1%) of genes in pham
• Manual Annotations of this start: 1 of 345
• Called 8.3% of time when present
• Phage (with cluster) where this start called: Fajezeel_69 (A1),

Start 65:
• Found in 7 of 381 (1.8%) of genes in pham
• Manual Annotations of this start: 7 of 345
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ashballer_72 (A1), JuliaChild_70 (A1), Lamina13_71 (A1), PSullivan_67 (A1), Pita2_70 (A1), Swole_70 (A1), Tote_65 (A1),

Start 67:
• Found in 12 of 381 (3.1%) of genes in pham
• Manual Annotations of this start: 6 of 345
• Called 50.0% of time when present
• Phage (with cluster) where this start called: GrecoEtereo_68 (A1), KSSJEB_67 (A1), Marchy_62 (A1), Trouble_68 (A1), Watermelon_68 (A1), Wheeler_71 (A1),

Start 73:
• Found in 16 of 381 (4.2%) of genes in pham
• Manual Annotations of this start: 4 of 345
• Called 31.2% of time when present
• Phage (with cluster) where this start called: Acme_70 (A1), Frokostdame_67 (CV), Greg_69 (A1), Payneful_66 (A1), Whitspit_63 (A1),

Start 74:
• Found in 23 of 381 (6.0%) of genes in pham
• Manual Annotations of this start: 17 of 345
• Called 95.7% of time when present
• Phage (with cluster) where this start called: Boilgate_61 (K8), BronnyJr_51 (P1), DLane_61 (F1), Emmaloid_68 (F1), Filuzino_64 (F1), IMpilo_61 (F1), Journey_55 (N), Juniper1_66 (F1), Mantra_63 (F1), Mbo4_26 (singleton), Medindi_62 (F1), Peridot_65 (F1), Phalconet_64 (F1), Polkaroo_59 (P1), PopTart_60 (F1), QueenHazel_55 (I1), Rialto_71 (F1), SassyB_60 (F1), SimranZ1_67 (F1), Slim_68 (F1), StAnnes_64 (F1), Xula_54 (I1),

Start 75:
• Found in 14 of 381 (3.7%) of genes in pham
• Manual Annotations of this start: 13 of 345
• Called 92.9% of time when present
• Phage (with cluster) where this start called: Barb_61 (DC1), ClamChowder_61 (DC1), Danyall_60 (DC1), Fugax_62 (DC1), KimmyK_60 (DC1), Petra_69 (CV), PinkCoffee_61 (DC1), PullumCavea_58 (DC1), RogerDodger_62 (DC1), UmaThurman_67 (CV), Utz_60 (CV), Vasanti_62 (CZ2), Walrus_66 (CV),

Start 79:
• Found in 40 of 381 (10.5%) of genes in pham
• Manual Annotations of this start: 1 of 345
• Called 2.5% of time when present
• Phage (with cluster) where this start called: HarryOW_66 (A1),

Start 80:

• Found in 1 of 381 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 345
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Tiamoceli_4 (DE3),

Start 99:
• Found in 1 of 381 (0.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gallop_53 (ES),

Start 101:
• Found in 44 of 381 (11.5%) of genes in pham
• Manual Annotations of this start: 3 of 345
• Called 11.4% of time when present
• Phage (with cluster) where this start called: GMA1_63 (singleton), Holliday_69 (DN1), Malisha_72 (DN), SharkTale_63 (DC1), Squiddly_65 (DN2),

Start 103:
• Found in 7 of 381 (1.8%) of genes in pham
• Manual Annotations of this start: 2 of 345
• Called 71.4% of time when present
• Phage (with cluster) where this start called: BellaJr_69 (FN), BlackSpider_63 (FN), CosmicBrownie_72 (AY), Vopal_77 (AY), Zucker_72 (FN),

Start 108:
• Found in 1 of 381 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 345
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Journey_54 (N),

Start 110:
• Found in 31 of 381 (8.1%) of genes in pham
• Manual Annotations of this start: 30 of 345
• Called 96.8% of time when present
• Phage (with cluster) where this start called: Aubs_67 (F1), Beanstalk_65 (F1), Blexus_65 (F1), BobaPhett_71 (F1), Bubbles123_63 (F1), Burwell21_65 (F1), ByChance_60 (F1), Cabrinians_68 (F1), CaptainTrips_65 (F1), Crumble_62 (F1), DaWorst_67 (F1), Emma_69 (F1), Estave1_72 (F1), Fancypants_70 (F1), Jarcob_66 (F1), Jennelsea_65 (F1), Koella_61 (F1), Maravista_69 (F1), MinionDave_66 (F1), Moonbeam_66 (F1), NormanBulbieJr_67 (F1), Pippy_66 (F1), Priscilla_67 (F1), Ramsey_66 (F1), ShowerHandel_70 (F1), Spikelee_74 (F1), SwagPigglett_72 (F1), Whouxphf_64 (F1), Yorick_66 (F1), Zizzle_71 (F1),

Start 116:
• Found in 27 of 381 (7.1%) of genes in pham
• Manual Annotations of this start: 22 of 345
• Called 96.3% of time when present
• Phage (with cluster) where this start called: Bobquesha_72 (K4), Chancellor_71 (K4), Cheetobro_71 (K4), DanSyl44_74 (K4), Eponine_73 (K4), Fionnbharth_71 (K4), JF1_71 (K4), Juliette_73 (K4), Kraw_71 (K4), Lebo14_70 (K4), Malthus_72 (K4), MissDaisy_68 (K4), Mitti_71 (K4), Nolwazi_73 (K4), OmniCritical_70 (K4), Patt_67 (K4), Qhanda_73 (K4), Reptar3000_68 (K4), Ruthiejr_72 (K4), SamScheppers_69

(K4), Slarp_71 (K4), Taquito_70 (K4), Wintermute_71 (K4), Y10_68 (K4), Y2_68 (K4), YasnayaPolyana_70 (K4),

Start 117:
• Found in 7 of 381 (1.8%) of genes in pham
• Manual Annotations of this start: 1 of 345
• Called 14.3% of time when present
• Phage (with cluster) where this start called: Ogopogo_78 (F1),

Start 120:
• Found in 11 of 381 (2.9%) of genes in pham
• Manual Annotations of this start: 3 of 345
• Called 36.4% of time when present
• Phage (with cluster) where this start called: Bartholomew_57 (P1), Flathead_72 (F1), PaintedDog_64 (I1), Venti_58 (P1),

Start 152:
• Found in 16 of 381 (4.2%) of genes in pham
• Manual Annotations of this start: 16 of 345
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Daenerys_73 (F1), Doomphist_77 (F1), Empress_72 (F1), Geralt_67 (F1), Inventum_72 (F1), JoeyJr_74 (F1), KingMidas_73 (F1), Leperchaun_72 (F1), Nimbo_66 (F1), OldBen_71 (F1), PHappiness_74 (F1), Poenanya_77 (F1), Polka14_78 (F1), RitaG_74 (F1), Sassafras_75 (F1), Scottish_72 (F1),

Start 153:
• Found in 3 of 381 (0.8%) of genes in pham
• Manual Annotations of this start: 1 of 345
• Called 33.3% of time when present
• Phage (with cluster) where this start called: PhesterPhotato_76 (F1),

Start 155:
• Found in 60 of 381 (15.7%) of genes in pham
• Manual Annotations of this start: 8 of 345
• Called 15.0% of time when present
• Phage (with cluster) where this start called: Atcoo_62 (P1), Brusacoram_62 (P1), Daegal_70 (Q), DillTech15_74 (F1), IMpilo_63 (F1), Juniormint_55 (P1), StevieRay_65 (P1), Thespis_62 (P1), Webster2_67 (Q),

Start 157:
• Found in 25 of 381 (6.6%) of genes in pham
• No Manual Annotations of this start.
• Called 4.0% of time when present
• Phage (with cluster) where this start called: Polkaroo_62 (P1),

Start 159:
• Found in 5 of 381 (1.3%) of genes in pham
• Manual Annotations of this start: 4 of 345
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Bran_64 (EP), Hegedechwinu_81 (F1), JalFarm20_88 (F1), Smooch_24 (O),

Start 160:
• Found in 10 of 381 (2.6%) of genes in pham
• Manual Annotations of this start: 7 of 345
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Asapag_64 (DN1), BotCity_67 (DN), Brandonk123_11 (DE1), Divya_14 (FL), GAL1_56 (singleton), Getalong_67 (DN1), Sidious_65 (CZ7), SunnyJune_15 (FL),

Start 161:
• Found in 4 of 381 (1.0%) of genes in pham
• Manual Annotations of this start: 1 of 345
• Called 25.0% of time when present
• Phage (with cluster) where this start called: SG4_77 (F1),

Start 162:
• Found in 3 of 381 (0.8%) of genes in pham
• Manual Annotations of this start: 2 of 345
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Chubbello_59 (P1), Fastidio_67 (F1), Oksu_72 (F1),

Start 163:
• Found in 80 of 381 (21.0%) of genes in pham
• Manual Annotations of this start: 63 of 345
• Called 82.5% of time when present
• Phage (with cluster) where this start called: 32HC_73 (Z), Abblin_89 (DE4), Amochick_68 (Q), Amymech_67 (Q), BloominB_66 (Q), BritBrat_76 (CY2), Brujita_55 (I1), Che9d_76 (F2), Che9d_77 (F2), DaddyRickover_77 (F1), DeepSoil15_67 (Q), Delrey21_89 (DE4), Dewey_62 (Q), DobbysSock_52 (CZ4), DoctorFroggo_89 (DE4), Donkeykong_75 (F1), Ein37_67 (Q), Evanesce_66 (Q), Forge_62 (Q), Galadriel_11 (DE1), Gancho_66 (Q), Giles_62 (Q), Gravaillia_63 (Q), Gudmit_63 (singleton), HH92_66 (Q), Hadrien_66 (Q), Hail_62 (Q), Hamulus_73 (F1), Hyzer_73 (CZ1), Ibhubesi_66 (F1), Island3_55 (I1), JKSyngboy_82 (DE1), JalFarm20_79 (F1), Jinkies_19 (FL), Juice456_67 (F1), Jung_56 (P1), Juniper1_67 (F1), Kamashten_10 (DE1), Kinbote_65 (Q), KristaRAM_69 (F1), LilHazelnut_67 (Q), LittleShirley_66 (F1), LittleShirley_73 (F1), Love_11 (DE1), Luke_66 (Q), Luna22_62 (Q), McCrothy_10 (DE1), Megiddo_59 (P1), MoontowerMania_8 (DE1), Natkenzie_89 (DE4), OBUpride_67 (Q), Ogopogo_72 (F1), Paries_10 (DE1), PhorbesPhlower_52 (DH), Rem711_72 (Z), Sampson_91 (DE4), Scioto_90 (DE4), Sidious_64 (CZ7), TJE1_18 (singleton), Thing3_10 (DE1), Tweety_66 (F1), Ubuntu_67 (Q), Verity_88 (DE4), ViaConlectus_88 (DE4), Wishmaker_62 (Q), Zipp_89 (DE4),

Start 164:
• Found in 41 of 381 (10.8%) of genes in pham
• Manual Annotations of this start: 36 of 345
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ailee_83 (DE1), Ayotoya_67 (DI), BetterKatz_66 (DI), Bibwit_83 (DE1), BobBob_87 (DE1), Bock_68 (DI), Brandonk123_89 (DE1), Brawn1_82 (DE1), Brylie_66 (DI), Chop_68 (DI), DelRio_67 (DI), Fitzgerald_83 (DE1), Fosterous_87 (DE1), Francois_66 (DI), Galadriel_86 (DE1), GrandSlam_68 (DI), Hamood_68 (DI), Jabberwocky_84 (DE1), Kamashten_86 (DE1), Keitabear_83 (DE1), Lennon_85 (DE1), Love_91 (DE1), Marker_68 (F1), McCrothy_84 (DE1), McKinley_88 (DE1), Mulch_66 (DI), Nadeem_66 (DI),

NancyRae_65 (DI), PFR1_39 (BX), PFR2_41 (BX), Parada_66 (DI), Pimento_69 (DI), Rofo_85 (DE1), Sanjuju_83 (DE1), Sedona_83 (DE1), Sitar_84 (DE1), Stultus_80 (DE1), SussRoloMann_66 (DI), Thing3_86 (DE1), TripleJ_61 (FJ), WheatThin_65 (DI),

Start 168:
• Found in 1 of 381 (0.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DocB7_036 (singleton),

Start 169:
• Found in 7 of 381 (1.8%) of genes in pham
• Manual Annotations of this start: 7 of 345
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bernal13_60 (T), Ibrahim_60 (T), Mendokysei_64 (T), Nairb_58 (T), RonRayGun_60 (T), Whitty_59 (T), ZenTime222_66 (T),

Start 170:
• Found in 83 of 381 (21.8%) of genes in pham
• Manual Annotations of this start: 78 of 345
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ASerpRocky_43 (CS4), Adgers_48 (CS2), Amore2_49 (CS1), Anamika_46 (CS3), Austin_49 (CS1), Barbochs_45 (CS2), Beaver_50 (CS2), Benczkowski14_42 (CS4), BenoitCattle_47 (CS2), Berries_46 (CS3), Bianmat_46 (CS3), BigShaq_46 (CS2), BillyBobJr_52 (CS2), BirksAndSocks_51 (CS2), Boneham_50 (CS2), Breezic_46 (CS2), Butterball_50 (CS2), CathyBurgh_46 (CS2), Charianelly_46 (CS3), Chelms_46 (CS2), CinnamonToast_52 (CS2), Crete_47 (CS2), Dakiti_47 (CS2), Damp_46 (CS3), Demosthenes_42 (CS4), Diabla_50 (CS2), Eggsie_45 (CS2), Ekhein_47 (CS2), Exiguo_46 (CS2), FelixAlejandro_51 (CS2), Flakey_46 (CS2), GMA7_38 (CS1), GTE7_37 (CS1), GalacticEye_46 (CS3), Gorko_46 (CS2), GourdThymes_46 (CS2), Guillaume_46 (CS3), Hail2Pitt_45 (CS3), Harambe_46 (CS3), HayZem_48 (CS1), Hello_46 (CS3), Hollow_43 (CS4), Hotorobo_46 (CS2), Jams_46 (CS3), Jellybones_49 (CS2), John316_50 (CS2), Jormungandr_46 (CS3), Kaseim_46 (CS3), Katyusha_42 (CS4), Kelzog_48 (CS2), Kvothe_42 (CS4), Lahirium_46 (CS3), Lidong_46 (CS3), Linetti_47 (CS2), Lizzo_46 (CS2), Luker_47 (CS3), Minos_47 (CS3), Monty_45 (CS2), MrWormie_46 (CS3), Msay19_51 (CS2), Neoevie_46 (CS3), Newt_47 (CS3), Niagara_42 (CS4), Nimi13_46 (CS3), Philon9_45 (CS4), PierreThree_46 (CS2), PokyPuppy_45 (CS2), Poland_51 (CS2), RemRem_47 (CS2), RoyalG_47 (CS2), Sam12_46 (CS2), Shelley_46 (CS3), Sombrero_47 (CS2), Squibbles_46 (CS2), SteveFrench_46 (CS2), Sticker17_46 (CS3), Teal_46 (CS3), Teatealatte_43 (CS4), Teech_43 (CS4), Tredge_43 (CS4), Vitaenoii_45 (CS4), Woes_46 (CS3), Worcestershire_46 (CS2),

Start 175:
• Found in 1 of 381 (0.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GMA4_54 (singleton),

Start 184:

• Found in 42 of 381 (11.0%) of genes in pham
• Manual Annotations of this start: 2 of 345
• Called 4.8% of time when present
• Phage (with cluster) where this start called: Clown_9 (DC2), Spooky_73 (DN2),

Summary by clusters:

There are 40 clusters represented in this pham: DN, singleton, DH, DI, CZ2, CZ1, CZ7, CZ4, K4, FJ, K8, FL, FN, I1, BX, CV, A1, DN1, DN2, CS4, CS1, CS3, CS2, CY2, P1, O, N, Q, T, AY, Z, DC2, EP, ES, DC1, F1, F2, DE1, DE3, DE4,

Info for manual annotations of cluster A1:
•Start number 33 was manually annotated 5 times for cluster A1.
•Start number 35 was manually annotated 1 time for cluster A1.
•Start number 58 was manually annotated 1 time for cluster A1.
•Start number 60 was manually annotated 1 time for cluster A1.
•Start number 65 was manually annotated 7 times for cluster A1.
•Start number 67 was manually annotated 6 times for cluster A1.
•Start number 73 was manually annotated 3 times for cluster A1.
•Start number 79 was manually annotated 1 time for cluster A1.

Info for manual annotations of cluster CS1:
•Start number 170 was manually annotated 3 times for cluster CS1.

Info for manual annotations of cluster CS2:
•Start number 170 was manually annotated 38 times for cluster CS2.

Info for manual annotations of cluster CS3:
•Start number 170 was manually annotated 25 times for cluster CS3.

Info for manual annotations of cluster CS4:
•Start number 170 was manually annotated 12 times for cluster CS4.

Info for manual annotations of cluster CV:
•Start number 73 was manually annotated 1 time for cluster CV.
•Start number 75 was manually annotated 4 times for cluster CV.

Info for manual annotations of cluster CY2:
•Start number 163 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster CZ1:
•Start number 163 was manually annotated 1 time for cluster CZ1.

Info for manual annotations of cluster CZ2:
•Start number 75 was manually annotated 1 time for cluster CZ2.

Info for manual annotations of cluster CZ4:
•Start number 163 was manually annotated 1 time for cluster CZ4.

Info for manual annotations of cluster CZ7:
•Start number 160 was manually annotated 1 time for cluster CZ7.

•Start number 163 was manually annotated 1 time for cluster CZ7.

Info for manual annotations of cluster DC1:
•Start number 75 was manually annotated 8 times for cluster DC1.

Info for manual annotations of cluster DC2:
•Start number 184 was manually annotated 1 time for cluster DC2.

Info for manual annotations of cluster DE1:
•Start number 160 was manually annotated 1 time for cluster DE1.
•Start number 163 was manually annotated 7 times for cluster DE1.
•Start number 164 was manually annotated 19 times for cluster DE1.

Info for manual annotations of cluster DE3:
•Start number 80 was manually annotated 1 time for cluster DE3.

Info for manual annotations of cluster DE4:
•Start number 163 was manually annotated 9 times for cluster DE4.

Info for manual annotations of cluster DH:
•Start number 163 was manually annotated 1 time for cluster DH.

Info for manual annotations of cluster DI:
•Start number 164 was manually annotated 15 times for cluster DI.

Info for manual annotations of cluster DN:
•Start number 101 was manually annotated 1 time for cluster DN.
•Start number 160 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster DN1:
•Start number 101 was manually annotated 1 time for cluster DN1.
•Start number 160 was manually annotated 2 times for cluster DN1.

Info for manual annotations of cluster DN2:
•Start number 101 was manually annotated 1 time for cluster DN2.
•Start number 184 was manually annotated 1 time for cluster DN2.

Info for manual annotations of cluster EP:
•Start number 159 was manually annotated 1 time for cluster EP.

Info for manual annotations of cluster F1:
•Start number 74 was manually annotated 13 times for cluster F1.
•Start number 110 was manually annotated 30 times for cluster F1.
•Start number 117 was manually annotated 1 time for cluster F1.
•Start number 120 was manually annotated 1 time for cluster F1.
•Start number 152 was manually annotated 16 times for cluster F1.
•Start number 153 was manually annotated 1 time for cluster F1.
•Start number 155 was manually annotated 1 time for cluster F1.
•Start number 159 was manually annotated 2 times for cluster F1.
•Start number 161 was manually annotated 1 time for cluster F1.
•Start number 162 was manually annotated 2 times for cluster F1.
•Start number 163 was manually annotated 12 times for cluster F1.

•Start number 164 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster F2:
•Start number 163 was manually annotated 2 times for cluster F2.

Info for manual annotations of cluster FJ:
•Start number 164 was manually annotated 1 time for cluster FJ.

Info for manual annotations of cluster FL:
•Start number 160 was manually annotated 2 times for cluster FL.
•Start number 163 was manually annotated 1 time for cluster FL.

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

Info for manual annotations of cluster I1:
•Start number 40 was manually annotated 1 time for cluster I1.
•Start number 74 was manually annotated 2 times for cluster I1.
•Start number 163 was manually annotated 2 times for cluster I1.

Info for manual annotations of cluster K4:
•Start number 116 was manually annotated 22 times for cluster K4.

Info for manual annotations of cluster K8:
•Start number 74 was manually annotated 1 time for cluster K8.

Info for manual annotations of cluster N:
•Start number 74 was manually annotated 1 time for cluster N.
•Start number 108 was manually annotated 1 time for cluster N.

Info for manual annotations of cluster O:
•Start number 159 was manually annotated 1 time for cluster O.

Info for manual annotations of cluster P1:
•Start number 120 was manually annotated 2 times for cluster P1.
•Start number 155 was manually annotated 5 times for cluster P1.
•Start number 163 was manually annotated 2 times for cluster P1.

Info for manual annotations of cluster Q:
•Start number 155 was manually annotated 2 times for cluster Q.
•Start number 163 was manually annotated 21 times for cluster Q.

Info for manual annotations of cluster T:
•Start number 169 was manually annotated 7 times for cluster T.

Info for manual annotations of cluster Z:
•Start number 163 was manually annotated 1 time for cluster Z.

Gene Information:

Gene: 32HC_73 Start: 44576, Stop: 45244, Start Num: 163

Candidate Starts for 32HC_73:
(92, 44408), (134, 44507), (142, 44528), (Start: 163 @44576 has 63 MA's), (172, 44603), (191, 44657), (357, 44987), (368, 45008), (410, 45161),

Gene: ASerpRocky_43 Start: 45618, Stop: 44902, Start Num: 170
Candidate Starts for ASerpRocky_43:
(Start: 170 @45618 has 78 MA's), (174, 45603), (207, 45501), (245, 45411), (249, 45405), (318, 45252), (351, 45189), (361, 45159), (398, 45048), (417, 44937),

Gene: Abblin_89 Start: 59142, Stop: 59831, Start Num: 163
Candidate Starts for Abblin_89:
(43, 58827), (109, 59016), (125, 59061), (137, 59085), (Start: 163 @59142 has 63 MA's), (191, 59223), (212, 59274), (262, 59400), (284, 59439), (320, 59517), (325, 59529), (335, 59550), (359, 59586), (389, 59667),

Gene: Acme_70 Start: 44165, Stop: 43323, Start Num: 73
Candidate Starts for Acme_70:
(Start: 60 @44201 has 1 MA's), (Start: 67 @44186 has 6 MA's), (Start: 73 @44165 has 4 MA's), (Start: 79 @44135 has 1 MA's), (83, 44132), (98, 44102), (Start: 101 @44093 has 3 MA's), (151, 43973), (233, 43865), (259, 43796), (295, 43721), (377, 43535), (386, 43505), (423, 43346),

Gene: Adgers_48 Start: 44794, Stop: 44072, Start Num: 170
Candidate Starts for Adgers_48:
(Start: 170 @44794 has 78 MA's), (182, 44755), (189, 44728), (207, 44677), (238, 44602), (245, 44587), (287, 44503), (318, 44428), (380, 44272), (398, 44224), (400, 44194), (424, 44092),

Gene: Ailee_83 Start: 57588, Stop: 58286, Start Num: 164
Candidate Starts for Ailee_83:
(4, 57051), (8, 57105), (47, 57276), (134, 57513), (143, 57537), (Start: 164 @57588 has 36 MA's), (178, 57636), (182, 57645), (Start: 184 @57657 has 2 MA's), (231, 57765), (256, 57825), (293, 57906), (297, 57921), (303, 57942), (372, 58074), (382, 58107), (397, 58149), (403, 58194), (411, 58227), (416, 58254), (422, 58275),

Gene: Amochick_68 Start: 45397, Stop: 46059, Start Num: 163
Candidate Starts for Amochick_68:
(28, 45019), (63, 45136), (77, 45181), (82, 45205), (104, 45256), (126, 45310), (Start: 155 @45385 has 8 MA's), (157, 45388), (Start: 163 @45397 has 63 MA's), (172, 45424), (253, 45598), (288, 45676), (292, 45682), (299, 45706), (305, 45715), (325, 45757), (369, 45841), (373, 45844), (382, 45877), (384, 45883), (386, 45889), (401, 45952), (410, 45988), (415, 46015), (417, 46030), (421, 46039),

Gene: Amore2_49 Start: 45293, Stop: 44574, Start Num: 170
Candidate Starts for Amore2_49:
(Start: 170 @45293 has 78 MA's), (182, 45254), (189, 45227), (199, 45194), (207, 45176), (238, 45101), (245, 45086), (252, 45077), (287, 45002), (318, 44927),

Gene: Amymech_67 Start: 44916, Stop: 45578, Start Num: 163
Candidate Starts for Amymech_67:
(38, 44574), (63, 44655), (77, 44700), (82, 44724), (104, 44775), (126, 44829), (Start: 155 @44904 has 8 MA's), (157, 44907), (Start: 163 @44916 has 63 MA's), (172, 44943), (253, 45117), (288, 45195), (292, 45201), (299, 45225), (305, 45234), (325, 45276), (369, 45360), (373, 45363), (382, 45396), (384, 45402), (386, 45408), (401, 45471), (410, 45507), (415, 45534), (417, 45549), (421, 45558),

Gene: Anamika_46 Start: 46699, Stop: 45980, Start Num: 170

Candidate Starts for Anamika_46:
(Start: 170 @46699 has 78 MA's), (189, 46633), (207, 46582), (211, 46576), (245, 46492), (262, 46447), (287, 46408), (318, 46333), (323, 46324), (398, 46129),

Gene: Asapag_64 Start: 39261, Stop: 39899, Start Num: 160
Candidate Starts for Asapag_64:
(145, 39240), (Start: 160 @39261 has 7 MA's), (172, 39291), (191, 39345), (200, 39372), (262, 39474), (300, 39552), (382, 39705), (421, 39870),

Gene: Ashballer_72 Start: 44821, Stop: 43955, Start Num: 65
Candidate Starts for Ashballer_72:
(56, 44848), (61, 44827), (Start: 65 @44821 has 7 MA's), (Start: 73 @44794 has 4 MA's), (Start: 79 @44764 has 1 MA's), (83, 44761), (98, 44731), (Start: 101 @44722 has 3 MA's), (151, 44602), (233, 44494), (259, 44425), (295, 44350), (377, 44164), (386, 44134), (423, 43975),

Gene: Atcoo_62 Start: 41875, Stop: 42537, Start Num: 155
Candidate Starts for Atcoo_62:
(Start: 117 @41794 has 1 MA's), (Start: 120 @41803 has 3 MA's), (133, 41830), (Start: 155 @41875 has 8 MA's), (172, 41908), (191, 41962), (200, 41989), (237, 42049), (282, 42139), (290, 42151), (301, 42184), (382, 42349), (395, 42382), (400, 42418), (421, 42508),

Gene: Aubs_67 Start: 44345, Stop: 45295, Start Num: 110
Candidate Starts for Aubs_67:
(Start: 110 @44345 has 30 MA's), (151, 44447), (167, 44477), (173, 44498), (196, 44570), (202, 44594), (214, 44618), (223, 44648), (225, 44654), (250, 44720), (254, 44726), (268, 44774), (301, 44837), (312, 44867), (386, 45086), (390, 45092), (397, 45116), (398, 45119), (400, 45149), (403, 45161), (411, 45194), (417, 45230), (418, 45239), (424, 45251), (429, 45257), (434, 45269), (439, 45278),

Gene: Austin_49 Start: 45293, Stop: 44574, Start Num: 170
Candidate Starts for Austin_49:
(Start: 170 @45293 has 78 MA's), (189, 45227), (199, 45194), (207, 45176), (238, 45101), (245, 45086), (252, 45077), (287, 45002), (318, 44927),

Gene: Ayotoya_67 Start: 43566, Stop: 44279, Start Num: 164
Candidate Starts for Ayotoya_67:
(71, 43332), (118, 43461), (Start: 164 @43566 has 36 MA's), (172, 43593), (192, 43659), (294, 43884), (303, 43917), (327, 43971), (361, 44028), (380, 44079), (382, 44082), (396, 44121), (400, 44157),

Gene: Barb_61 Start: 44265, Stop: 45221, Start Num: 75
Candidate Starts for Barb_61:
(Start: 75 @44265 has 13 MA's), (115, 44361), (150, 44451), (250, 44721), (259, 44745), (278, 44790), (281, 44796), (333, 44895), (378, 45006), (396, 45060),

Gene: Barbochs_45 Start: 44538, Stop: 43816, Start Num: 170
Candidate Starts for Barbochs_45:
(Start: 170 @44538 has 78 MA's), (182, 44499), (189, 44472), (207, 44421), (238, 44346), (245, 44331), (287, 44247), (318, 44172), (380, 44016), (398, 43968), (400, 43938), (424, 43836),

Gene: Bartholomew_57 Start: 37622, Stop: 38488, Start Num: 120
Candidate Starts for Bartholomew_57:
(97, 37571), (Start: 103 @37586 has 2 MA's), (Start: 120 @37622 has 3 MA's), (Start: 163 @37721 has 63 MA's), (172, 37751), (183, 37784), (Start: 184 @37793 has 2 MA's), (199, 37841), (218,

37874), (237, 37943), (266, 38015), (279, 38039), (287, 38054), (366, 38225), (374, 38261), (394, 38327), (397, 38333), (416, 38438), (421, 38456),

Gene: Beanstalk_65 Start: 42382, Stop: 43332, Start Num: 110
Candidate Starts for Beanstalk_65:
(Start: 110 @42382 has 30 MA's), (151, 42484), (167, 42514), (173, 42535), (196, 42607), (202, 42631), (214, 42655), (223, 42685), (225, 42691), (250, 42757), (254, 42763), (268, 42811), (301, 42874), (312, 42904), (386, 43123), (390, 43129), (397, 43153), (398, 43156), (400, 43186), (403, 43198), (411, 43231), (417, 43267), (418, 43276), (424, 43288), (429, 43294), (434, 43306), (439, 43315),

Gene: Beaver_50 Start: 46308, Stop: 45586, Start Num: 170
Candidate Starts for Beaver_50:
(Start: 170 @46308 has 78 MA's), (182, 46269), (189, 46242), (207, 46191), (238, 46116), (245, 46101), (287, 46017), (318, 45942), (380, 45786), (398, 45738), (400, 45708), (424, 45606),

Gene: BellaJr_69 Start: 40264, Stop: 41163, Start Num: 103
Candidate Starts for BellaJr_69:
(49, 40096), (Start: 103 @40264 has 2 MA's), (111, 40273), (129, 40321), (Start: 155 @40381 has 8 MA's), (176, 40435), (179, 40447), (397, 40987), (403, 41032), (424, 41122),

Gene: Benczkowski14_42 Start: 45651, Stop: 44935, Start Num: 170
Candidate Starts for Benczkowski14_42:
(Start: 170 @45651 has 78 MA's), (174, 45636), (207, 45534), (245, 45444), (249, 45438), (318, 45285), (351, 45222), (361, 45192), (417, 44970),

Gene: BenoitCattle_47 Start: 44738, Stop: 44016, Start Num: 170
Candidate Starts for BenoitCattle_47:
(Start: 170 @44738 has 78 MA's), (182, 44699), (189, 44672), (207, 44621), (238, 44546), (245, 44531), (287, 44447), (318, 44372), (380, 44216), (398, 44168), (400, 44138), (424, 44036),

Gene: Bernal13_60 Start: 41221, Stop: 41958, Start Num: 169
Candidate Starts for Bernal13_60:
(24, 40804), (102, 41062), (106, 41068), (Start: 169 @41221 has 7 MA's), (182, 41263), (204, 41335), (215, 41353), (261, 41479), (266, 41497), (318, 41611), (332, 41647), (358, 41692), (382, 41776), (385, 41785), (387, 41788), (393, 41797), (397, 41815), (423, 41947),

Gene: Berries_46 Start: 46670, Stop: 45951, Start Num: 170
Candidate Starts for Berries_46:
(Start: 170 @46670 has 78 MA's), (189, 46604), (207, 46553), (211, 46547), (245, 46463), (262, 46418), (287, 46379), (318, 46304), (398, 46100),

Gene: BetterKatz_66 Start: 42765, Stop: 43475, Start Num: 164
Candidate Starts for BetterKatz_66:
(71, 42531), (118, 42660), (Start: 164 @42765 has 36 MA's), (172, 42792), (192, 42858), (294, 43083), (303, 43116), (327, 43170), (361, 43227), (380, 43278), (382, 43281), (400, 43356),

Gene: Bianmat_46 Start: 46710, Stop: 45991, Start Num: 170
Candidate Starts for Bianmat_46:
(Start: 170 @46710 has 78 MA's), (189, 46644), (202, 46602), (207, 46593), (211, 46587), (245, 46503), (262, 46458), (283, 46425), (287, 46419), (318, 46344), (398, 46140),

Gene: Bibwit_83 Start: 56952, Stop: 57692, Start Num: 164

Candidate Starts for Bibwit_83:
(8, 56205), (29, 56574), (47, 56640), (134, 56877), (143, 56901), (Start: 164 @56952 has 36 MA's), (178, 57000), (182, 57009), (Start: 184 @57021 has 2 MA's), (256, 57213), (260, 57228), (289, 57288), (293, 57294), (294, 57297), (297, 57309), (298, 57315), (303, 57330), (361, 57441), (397, 57555), (400, 57588), (403, 57600), (411, 57633), (416, 57660), (422, 57681),

Gene: Big3_68 Start: 44998, Stop: 44108, Start Num: 58
Candidate Starts for Big3_68:
(18, 45160), (21, 45127), (44, 45037), (Start: 58 @44998 has 1 MA's), (68, 44968), (70, 44965), (86, 44911), (100, 44878), (114, 44857), (Start: 155 @44752 has 8 MA's), (165, 44731), (172, 44710), (174, 44704), (208, 44629), (220, 44599), (262, 44482), (278, 44449), (367, 44368), (380, 44302), (399, 44242), (410, 44185), (411, 44179), (415, 44158),

Gene: BigShaq_46 Start: 44743, Stop: 44021, Start Num: 170
Candidate Starts for BigShaq_46:
(Start: 170 @44743 has 78 MA's), (182, 44704), (189, 44677), (207, 44626), (238, 44551), (245, 44536), (287, 44452), (318, 44377), (380, 44221), (398, 44173), (400, 44143), (424, 44041),

Gene: Bigchungi_59 Start: 40164, Stop: 39178, Start Num: 33
Candidate Starts for Bigchungi_59:
(Start: 33 @40164 has 5 MA's), (66, 40056), (87, 40011), (Start: 155 @39927 has 8 MA's), (198, 39804), (226, 39750), (232, 39729), (233, 39720), (243, 39684), (277, 39606), (289, 39579), (293, 39573), (313, 39513), (314, 39510), (353, 39456), (376, 39384), (377, 39372), (379, 39363), (382, 39354), (392, 39333), (396, 39315), (400, 39279),

Gene: BillyBobJr_52 Start: 46616, Stop: 45894, Start Num: 170
Candidate Starts for BillyBobJr_52:
(Start: 170 @46616 has 78 MA's), (182, 46577), (189, 46550), (199, 46517), (207, 46499), (238, 46424), (245, 46409), (287, 46325), (318, 46250), (397, 46049), (398, 46046), (424, 45914),

Gene: BirksAndSocks_51 Start: 46658, Stop: 45936, Start Num: 170
Candidate Starts for BirksAndSocks_51:
(Start: 170 @46658 has 78 MA's), (182, 46619), (189, 46592), (207, 46541), (238, 46466), (245, 46451), (287, 46367), (318, 46292), (380, 46136), (398, 46088), (400, 46058), (424, 45956),

Gene: BlackSpider_63 Start: 37958, Stop: 38857, Start Num: 103
Candidate Starts for BlackSpider_63:
(2, 37145), (3, 37262), (5, 37301), (6, 37313), (12, 37547), (13, 37559), (49, 37790), (Start: 103 @37958 has 2 MA's), (111, 37967), (129, 38015), (149, 38063), (Start: 155 @38075 has 8 MA's), (176, 38129), (202, 38216), (312, 38489), (386, 38651), (397, 38681), (402, 38720), (403, 38726), (416, 38786), (424, 38816), (434, 38834), (439, 38843),

Gene: Blexus_65 Start: 44521, Stop: 45471, Start Num: 110
Candidate Starts for Blexus_65:
(Start: 110 @44521 has 30 MA's), (151, 44623), (167, 44653), (173, 44674), (196, 44746), (202, 44770), (214, 44794), (223, 44824), (225, 44830), (250, 44896), (254, 44902), (268, 44950), (301, 45013), (312, 45043), (386, 45262), (390, 45268), (397, 45292), (398, 45295), (400, 45325), (403, 45337), (411, 45370), (417, 45406), (418, 45415), (424, 45427), (429, 45433), (434, 45445), (439, 45454),

Gene: BloominB_66 Start: 44916, Stop: 45578, Start Num: 163
Candidate Starts for BloominB_66:

(38, 44574), (63, 44655), (77, 44700), (82, 44724), (104, 44775), (126, 44829), (Start: 155 @44904 has 8 MA's), (157, 44907), (Start: 163 @44916 has 63 MA's), (172, 44943), (253, 45117), (288, 45195), (292, 45201), (299, 45225), (305, 45234), (325, 45276), (369, 45360), (373, 45363), (382, 45396), (384, 45402), (386, 45408), (401, 45471), (410, 45507), (415, 45534), (417, 45549), (421, 45558),

Gene: BobBob_87 Start: 57791, Stop: 58489, Start Num: 164
Candidate Starts for BobBob_87:
(8, 57044), (29, 57413), (47, 57479), (134, 57716), (143, 57740), (Start: 164 @57791 has 36 MA's), (178, 57839), (182, 57848), (Start: 184 @57860 has 2 MA's), (231, 57968), (256, 58028), (293, 58109), (297, 58124), (303, 58145), (372, 58277), (382, 58310), (397, 58352), (403, 58397), (411, 58430), (416, 58457), (422, 58478),

Gene: BobaPhett_71 Start: 46777, Stop: 47727, Start Num: 110
Candidate Starts for BobaPhett_71:
(Start: 110 @46777 has 30 MA's), (151, 46879), (167, 46909), (173, 46930), (196, 47002), (202, 47026), (214, 47050), (223, 47080), (225, 47086), (250, 47152), (254, 47158), (268, 47206), (301, 47269), (312, 47299), (386, 47518), (390, 47524), (397, 47548), (398, 47551), (400, 47581), (403, 47593), (411, 47626), (417, 47662), (418, 47671), (424, 47683), (429, 47689), (434, 47701), (439, 47710), (441, 47719),

Gene: Bobquesha_72 Start: 42529, Stop: 43374, Start Num: 116
Candidate Starts for Bobquesha_72:
(93, 42478), (Start: 116 @42529 has 22 MA's), (128, 42556), (146, 42586), (230, 42814), (253, 42874), (278, 42940), (367, 43114), (388, 43192), (397, 43219), (402, 43258), (411, 43297), (431, 43357),

Gene: Bock_68 Start: 43009, Stop: 43719, Start Num: 164
Candidate Starts for Bock_68:
(71, 42775), (118, 42904), (Start: 164 @43009 has 36 MA's), (172, 43036), (192, 43102), (294, 43327), (303, 43360), (327, 43414), (361, 43471), (380, 43522), (382, 43525), (400, 43600),

Gene: Boilgate_61 Start: 43556, Stop: 44494, Start Num: 74
Candidate Starts for Boilgate_61:
(66, 43532), (Start: 74 @43556 has 17 MA's), (Start: 79 @43583 has 1 MA's), (84, 43589), (88, 43595), (95, 43613), (115, 43652), (150, 43742), (Start: 163 @43763 has 63 MA's), (165, 43772), (167, 43775), (185, 43835), (191, 43853), (230, 43940), (233, 43952), (236, 43964), (259, 44021), (278, 44066), (331, 44141), (377, 44291), (386, 44321), (397, 44351), (401, 44387),

Gene: Boneham_50 Start: 46562, Stop: 45840, Start Num: 170
Candidate Starts for Boneham_50:
(Start: 170 @46562 has 78 MA's), (182, 46523), (189, 46496), (207, 46445), (238, 46370), (245, 46355), (287, 46271), (318, 46196), (397, 45995), (398, 45992), (424, 45860),

Gene: BotCity_67 Start: 40937, Stop: 41575, Start Num: 160
Candidate Starts for BotCity_67:
(145, 40916), (Start: 160 @40937 has 7 MA's), (172, 40967), (191, 41021), (200, 41048), (262, 41150), (300, 41228), (382, 41381), (421, 41546),

Gene: Bran_64 Start: 40159, Stop: 40923, Start Num: 159
Candidate Starts for Bran_64:
(Start: 159 @40159 has 4 MA's), (172, 40192), (Start: 184 @40234 has 2 MA's), (189, 40249), (194, 40261), (199, 40282), (218, 40315), (237, 40384), (261, 40441), (264, 40450), (266, 40456), (286, 40492), (321, 40573), (366, 40663), (370, 40672), (374, 40699), (379, 40726), (406, 40828), (411, 40849), (415, 40870), (433, 40915), (436, 40918),

Gene: Brandonk123_89 Start: 57956, Stop: 58654, Start Num: 164
Candidate Starts for Brandonk123_89:
(4, 57155), (8, 57209), (29, 57578), (47, 57644), (134, 57881), (143, 57905), (Start: 164 @57956 has 36 MA's), (174, 57989), (178, 58004), (Start: 184 @58025 has 2 MA's), (231, 58133), (256, 58193), (293, 58274), (297, 58289), (303, 58310), (372, 58442), (382, 58475), (397, 58517), (403, 58562), (411, 58595), (416, 58622), (422, 58643),

Gene: Brandonk123_11 Start: 5315, Stop: 5971, Start Num: 160
Candidate Starts for Brandonk123_11:
(Start: 160 @5315 has 7 MA's), (186, 5387), (191, 5399), (200, 5426), (262, 5552), (300, 5627), (324, 5675), (360, 5732), (362, 5735), (379, 5780), (382, 5789),

Gene: Brawn1_82 Start: 57096, Stop: 57794, Start Num: 164
Candidate Starts for Brawn1_82:
(8, 56349), (29, 56718), (47, 56784), (134, 57021), (143, 57045), (Start: 164 @57096 has 36 MA's), (178, 57144), (182, 57153), (Start: 184 @57165 has 2 MA's), (231, 57273), (256, 57333), (293, 57414), (297, 57429), (303, 57450), (372, 57582), (382, 57615), (397, 57657), (403, 57702), (411, 57735), (416, 57762), (422, 57783),

Gene: Breezic_46 Start: 44551, Stop: 43829, Start Num: 170
Candidate Starts for Breezic_46:
(Start: 170 @44551 has 78 MA's), (182, 44512), (189, 44485), (207, 44434), (238, 44359), (245, 44344), (287, 44260), (318, 44185), (380, 44029), (398, 43981), (400, 43951), (424, 43849),

Gene: BritBrat_76 Start: 47469, Stop: 48248, Start Num: 163
Candidate Starts for BritBrat_76:
(Start: 163 @47469 has 63 MA's), (174, 47505), (187, 47550), (194, 47562), (201, 47589), (237, 47703), (291, 47826), (318, 47892), (336, 47937), (337, 47940), (397, 48093), (422, 48222), (433, 48240),

Gene: BronnyJr_51 Start: 36387, Stop: 37439, Start Num: 74
Candidate Starts for BronnyJr_51:
(53, 36318), (Start: 74 @36387 has 17 MA's), (Start: 79 @36414 has 1 MA's), (Start: 101 @36456 has 3 MA's), (115, 36483), (124, 36507), (131, 36522), (Start: 153 @36579 has 1 MA's), (Start: 155 @36582 has 8 MA's), (165, 36603), (212, 36756), (221, 36780), (225, 36798), (378, 37221), (397, 37278), (435, 37431),

Gene: Brujita_55 Start: 37346, Stop: 37996, Start Num: 163
Candidate Starts for Brujita_55:
(Start: 163 @37346 has 63 MA's), (245, 37532), (262, 37568), (270, 37583), (273, 37586), (324, 37694), (368, 37760), (384, 37814), (397, 37844), (421, 37967),

Gene: Brusacoram_62 Start: 40418, Stop: 41080, Start Num: 155
Candidate Starts for Brusacoram_62:
(Start: 117 @40337 has 1 MA's), (Start: 120 @40346 has 3 MA's), (133, 40373), (Start: 155 @40418 has 8 MA's), (172, 40451), (191, 40505), (200, 40532), (237, 40592), (282, 40682), (290, 40694), (301, 40727), (382, 40892), (395, 40925), (400, 40961), (421, 41051),

Gene: Brylie_66 Start: 42588, Stop: 43298, Start Num: 164
Candidate Starts for Brylie_66:
(71, 42354), (118, 42483), (Start: 164 @42588 has 36 MA's), (172, 42615), (192, 42681), (294, 42906), (303, 42939), (327, 42993), (361, 43050), (380, 43101), (382, 43104), (400, 43179),

Gene: Bubbles123_63 Start: 43534, Stop: 44484, Start Num: 110
Candidate Starts for Bubbles123_63:
(Start: 110 @43534 has 30 MA's), (151, 43636), (167, 43666), (173, 43687), (196, 43759), (202, 43783), (214, 43807), (223, 43837), (225, 43843), (250, 43909), (254, 43915), (268, 43963), (301, 44026), (312, 44056), (386, 44275), (390, 44281), (397, 44305), (398, 44308), (400, 44338), (403, 44350), (411, 44383), (417, 44419), (418, 44428), (424, 44440), (429, 44446), (434, 44458),

Gene: Burwell21_65 Start: 44099, Stop: 45049, Start Num: 110
Candidate Starts for Burwell21_65:
(Start: 110 @44099 has 30 MA's), (151, 44201), (167, 44231), (173, 44252), (196, 44324), (202, 44348), (214, 44372), (223, 44402), (225, 44408), (250, 44474), (254, 44480), (268, 44528), (301, 44591), (312, 44621), (386, 44840), (390, 44846), (397, 44870), (398, 44873), (400, 44903), (403, 44915), (411, 44948), (417, 44984), (418, 44993), (424, 45005), (429, 45011), (434, 45023), (439, 45032),

Gene: Butterball_50 Start: 46562, Stop: 45840, Start Num: 170
Candidate Starts for Butterball_50:
(Start: 170 @46562 has 78 MA's), (182, 46523), (189, 46496), (199, 46463), (207, 46445), (238, 46370), (245, 46355), (287, 46271), (318, 46196), (397, 45995), (398, 45992), (424, 45860),

Gene: ByChance_60 Start: 40119, Stop: 41069, Start Num: 110
Candidate Starts for ByChance_60:
(Start: 110 @40119 has 30 MA's), (151, 40221), (167, 40251), (173, 40272), (196, 40344), (202, 40368), (214, 40392), (223, 40422), (225, 40428), (250, 40494), (254, 40500), (268, 40548), (301, 40611), (312, 40641), (386, 40860), (390, 40866), (397, 40890), (398, 40893), (400, 40923), (403, 40935), (411, 40968), (417, 41004), (418, 41013), (424, 41025), (429, 41031), (434, 41043), (439, 41052), (441, 41061),

Gene: Cabrinians_68 Start: 44177, Stop: 45127, Start Num: 110
Candidate Starts for Cabrinians_68:
(Start: 110 @44177 has 30 MA's), (151, 44279), (167, 44309), (173, 44330), (196, 44402), (202, 44426), (214, 44450), (223, 44480), (225, 44486), (250, 44552), (254, 44558), (268, 44606), (301, 44669), (312, 44699), (386, 44918), (390, 44924), (397, 44948), (398, 44951), (400, 44981), (403, 44993), (411, 45026), (417, 45062), (418, 45071), (424, 45083), (429, 45089), (434, 45101), (439, 45110),

Gene: CaptainTrips_65 Start: 43912, Stop: 44862, Start Num: 110
Candidate Starts for CaptainTrips_65:
(Start: 110 @43912 has 30 MA's), (151, 44014), (167, 44044), (173, 44065), (196, 44137), (202, 44161), (214, 44185), (223, 44215), (225, 44221), (250, 44287), (254, 44293), (268, 44341), (301, 44404), (312, 44434), (386, 44653), (390, 44659), (397, 44683), (398, 44686), (400, 44716), (403, 44728), (411, 44761), (417, 44797), (418, 44806), (424, 44818), (429, 44824), (434, 44836), (439, 44845),

Gene: CathyBurgh_46 Start: 45128, Stop: 44406, Start Num: 170
Candidate Starts for CathyBurgh_46:
(Start: 170 @45128 has 78 MA's), (182, 45089), (189, 45062), (207, 45011), (238, 44936), (245, 44921), (287, 44837), (318, 44762), (380, 44606), (398, 44558), (400, 44528), (424, 44426),

Gene: Chancellor_71 Start: 43637, Stop: 44482, Start Num: 116
Candidate Starts for Chancellor_71:

(93, 43586), (Start: 116 @43637 has 22 MA's), (128, 43664), (146, 43694), (230, 43922), (233, 43934), (253, 43982), (278, 44048), (367, 44222), (388, 44300), (397, 44327), (402, 44366),

Gene: Charianelly_46 Start: 46420, Stop: 45701, Start Num: 170
Candidate Starts for Charianelly_46:
(Start: 170 @46420 has 78 MA's), (189, 46354), (202, 46312), (207, 46303), (211, 46297), (245, 46213), (262, 46168), (283, 46135), (287, 46129), (318, 46054), (398, 45850),

Gene: Che9d_76 Start: 43217, Stop: 43891, Start Num: 163
Candidate Starts for Che9d_76:
(82, 43040), (85, 43046), (90, 43055), (Start: 163 @43217 has 63 MA's), (172, 43244), (191, 43298), (217, 43346), (262, 43448), (271, 43463), (274, 43466), (352, 43619), (360, 43640), (362, 43643), (387, 43718), (400, 43772), (421, 43862),

Gene: Che9d_77 Start: 43923, Stop: 44576, Start Num: 163
Candidate Starts for Che9d_77:
(69, 43686), (72, 43698), (Start: 73 @43701 has 4 MA's), (Start: 79 @43734 has 1 MA's), (81, 43737), (83, 43740), (141, 43875), (Start: 163 @43923 has 63 MA's), (172, 43950), (191, 44004), (200, 44031), (257, 44124), (290, 44190), (301, 44223), (382, 44388), (395, 44421), (400, 44457), (405, 44475), (417, 44538), (421, 44547),

Gene: Cheetobro_71 Start: 43634, Stop: 44479, Start Num: 116
Candidate Starts for Cheetobro_71:
(93, 43583), (Start: 116 @43634 has 22 MA's), (128, 43661), (146, 43691), (230, 43919), (233, 43931), (253, 43979), (278, 44045), (367, 44219), (388, 44297), (397, 44324), (402, 44363),

Gene: Chelms_46 Start: 44743, Stop: 44021, Start Num: 170
Candidate Starts for Chelms_46:
(Start: 170 @44743 has 78 MA's), (189, 44677), (207, 44626), (238, 44551), (245, 44536), (287, 44452), (318, 44377), (380, 44221), (398, 44173), (400, 44143), (424, 44041),

Gene: Chop_68 Start: 43754, Stop: 44467, Start Num: 164
Candidate Starts for Chop_68:
(71, 43520), (118, 43649), (Start: 164 @43754 has 36 MA's), (172, 43781), (192, 43847), (294, 44072), (303, 44105), (327, 44159), (361, 44216), (380, 44267), (382, 44270), (396, 44309), (400, 44345),

Gene: Chubbello_59 Start: 38549, Stop: 39286, Start Num: 162
Candidate Starts for Chubbello_59:
(123, 38459), (127, 38468), (Start: 162 @38549 has 2 MA's), (172, 38579), (183, 38612), (Start: 184 @38621 has 2 MA's), (222, 38711), (235, 38756), (246, 38783), (251, 38789), (270, 38837), (280, 38858), (304, 38918), (317, 38942), (332, 38978), (334, 38984), (354, 39011), (371, 39050), (397, 39134), (420, 39257),

Gene: CinnamonToast_52 Start: 46616, Stop: 45894, Start Num: 170
Candidate Starts for CinnamonToast_52:
(Start: 170 @46616 has 78 MA's), (182, 46577), (189, 46550), (199, 46517), (207, 46499), (238, 46424), (245, 46409), (287, 46325), (318, 46250), (397, 46049), (398, 46046), (424, 45914),

Gene: ClamChowder_61 Start: 44265, Stop: 45221, Start Num: 75
Candidate Starts for ClamChowder_61:
(Start: 75 @44265 has 13 MA's), (115, 44361), (150, 44451), (250, 44721), (259, 44745), (278, 44790), (281, 44796), (333, 44895), (378, 45006), (396, 45060),

Gene: Clown_9 Start: 5559, Stop: 6242, Start Num: 184
Candidate Starts for Clown_9:
(166, 5499), (Start: 184 @5559 has 2 MA's), (210, 5628), (240, 5730), (253, 5751), (262, 5787), (293, 5847), (296, 5859), (304, 5883), (309, 5892), (340, 5964), (362, 6000), (364, 6003), (392, 6081), (407, 6162), (425, 6234),

Gene: CosmicBrownie_72 Start: 40176, Stop: 41075, Start Num: 103
Candidate Starts for CosmicBrownie_72:
(49, 40008), (Start: 103 @40176 has 2 MA's), (111, 40185), (Start: 155 @40293 has 8 MA's), (176, 40347), (179, 40359), (254, 40566), (397, 40899), (403, 40944), (424, 41034), (432, 41049),

Gene: Crete_47 Start: 45009, Stop: 44287, Start Num: 170
Candidate Starts for Crete_47:
(Start: 170 @45009 has 78 MA's), (182, 44970), (189, 44943), (207, 44892), (238, 44817), (245, 44802), (287, 44718), (318, 44643), (380, 44487), (398, 44439), (400, 44409), (424, 44307),

Gene: Crumble_62 Start: 40074, Stop: 41024, Start Num: 110
Candidate Starts for Crumble_62:
(Start: 110 @40074 has 30 MA's), (151, 40176), (167, 40206), (173, 40227), (196, 40299), (202, 40323), (214, 40347), (223, 40377), (225, 40383), (250, 40449), (254, 40455), (268, 40503), (301, 40566), (312, 40596), (386, 40815), (390, 40821), (397, 40845), (398, 40848), (400, 40878), (403, 40890), (411, 40923), (417, 40959), (418, 40968), (424, 40980), (429, 40986), (434, 40998), (439, 41007), (441, 41016),

Gene: DLane_61 Start: 40914, Stop: 41870, Start Num: 74
Candidate Starts for DLane_61:
(Start: 74 @40914 has 17 MA's), (Start: 79 @40941 has 1 MA's), (Start: 101 @40983 has 3 MA's), (115, 41010), (124, 41034), (131, 41049), (150, 41100), (167, 41133), (197, 41211), (205, 41235), (221, 41271), (225, 41286), (233, 41307), (236, 41319), (259, 41376), (278, 41421), (316, 41484), (331, 41505), (367, 41607), (397, 41712),

Gene: DaWorst_67 Start: 43677, Stop: 44627, Start Num: 110
Candidate Starts for DaWorst_67:
(Start: 110 @43677 has 30 MA's), (151, 43779), (167, 43809), (173, 43830), (196, 43902), (202, 43926), (214, 43950), (223, 43980), (225, 43986), (250, 44052), (254, 44058), (268, 44106), (301, 44169), (312, 44199), (386, 44418), (390, 44424), (397, 44448), (398, 44451), (400, 44481), (403, 44493), (411, 44526), (417, 44562), (418, 44571), (424, 44583), (429, 44589), (434, 44601), (439, 44610),

Gene: DaddyRickover_77 Start: 47706, Stop: 48362, Start Num: 163
Candidate Starts for DaddyRickover_77:
(130, 47643), (Start: 155 @47697 has 8 MA's), (Start: 163 @47706 has 63 MA's), (165, 47712), (191, 47787), (200, 47814), (237, 47874), (282, 47964), (290, 47976), (301, 48009), (308, 48024), (382, 48174), (395, 48207), (400, 48243), (421, 48333),

Gene: Daegal_70 Start: 45947, Stop: 46621, Start Num: 155
Candidate Starts for Daegal_70:
(28, 45581), (42, 45638), (44, 45641), (63, 45698), (77, 45743), (82, 45767), (104, 45818), (126, 45872), (Start: 155 @45947 has 8 MA's), (157, 45950), (Start: 163 @45959 has 63 MA's), (172, 45986), (227, 46106), (253, 46160), (288, 46238), (292, 46244), (299, 46268), (305, 46277), (325, 46319), (369, 46403), (373, 46406), (382, 46439), (384, 46445), (386, 46451), (401, 46514), (410, 46550), (415, 46577), (417, 46592), (421, 46601),

Gene: Daenerys_73 Start: 47291, Stop: 47959, Start Num: 152
Candidate Starts for Daenerys_73:
(Start: 152 @47291 has 16 MA's), (172, 47330), (191, 47384), (200, 47411), (237, 47471), (282, 47561), (290, 47573), (301, 47606), (382, 47771), (395, 47804), (400, 47840), (421, 47930),

Gene: Dakiti_47 Start: 45611, Stop: 44889, Start Num: 170
Candidate Starts for Dakiti_47:
(Start: 170 @45611 has 78 MA's), (189, 45545), (207, 45494), (238, 45419), (245, 45404), (287, 45320), (318, 45245), (380, 45089), (398, 45041), (400, 45011), (424, 44909),

Gene: Damp_46 Start: 45584, Stop: 44865, Start Num: 170
Candidate Starts for Damp_46:
(Start: 170 @45584 has 78 MA's), (189, 45518), (207, 45467), (211, 45461), (245, 45377), (262, 45332), (287, 45293), (318, 45218), (398, 45014),

Gene: DanSyl44_74 Start: 44828, Stop: 45673, Start Num: 116
Candidate Starts for DanSyl44_74:
(93, 44777), (Start: 116 @44828 has 22 MA's), (128, 44855), (146, 44885), (230, 45113), (233, 45125), (253, 45173), (278, 45239), (367, 45413), (388, 45491), (397, 45518), (402, 45557),

Gene: Danyall_60 Start: 44369, Stop: 45325, Start Num: 75
Candidate Starts for Danyall_60:
(36, 44243), (54, 44309), (Start: 75 @44369 has 13 MA's), (115, 44465), (150, 44555), (250, 44825), (259, 44849), (278, 44894), (281, 44900), (333, 44999), (378, 45110), (396, 45164),

Gene: DeepSoil15_67 Start: 44916, Stop: 45578, Start Num: 163
Candidate Starts for DeepSoil15_67:
(38, 44574), (63, 44655), (77, 44700), (82, 44724), (104, 44775), (126, 44829), (Start: 155 @44904 has 8 MA's), (157, 44907), (Start: 163 @44916 has 63 MA's), (172, 44943), (253, 45117), (288, 45195), (292, 45201), (299, 45225), (305, 45234), (325, 45276), (369, 45360), (373, 45363), (382, 45396), (384, 45402), (386, 45408), (401, 45471), (410, 45507), (415, 45534), (417, 45549), (421, 45558),

Gene: DelRio_67 Start: 43775, Stop: 44485, Start Num: 164
Candidate Starts for DelRio_67:
(71, 43541), (118, 43670), (Start: 164 @43775 has 36 MA's), (172, 43802), (192, 43868), (294, 44093), (303, 44126), (327, 44180), (361, 44237), (380, 44288), (382, 44291), (396, 44330), (400, 44366),

Gene: Delrey21_89 Start: 60618, Stop: 61307, Start Num: 163
Candidate Starts for Delrey21_89:
(137, 60561), (Start: 163 @60618 has 63 MA's), (191, 60699), (320, 60993), (325, 61005), (389, 61143), (395, 61161), (410, 61236), (411, 61242),

Gene: Demosthenes_42 Start: 45591, Stop: 44875, Start Num: 170
Candidate Starts for Demosthenes_42:
(Start: 170 @45591 has 78 MA's), (174, 45576), (207, 45474), (245, 45384), (249, 45378), (318, 45225), (351, 45162), (361, 45132), (417, 44910),

Gene: Dewey_62 Start: 44916, Stop: 45578, Start Num: 163
Candidate Starts for Dewey_62:
(38, 44574), (63, 44655), (77, 44700), (82, 44724), (104, 44775), (126, 44829), (Start: 155 @44904 has 8 MA's), (157, 44907), (Start: 163 @44916 has 63 MA's), (172, 44943), (253, 45117), (288, 45195), (292, 45201), (299, 45225), (305, 45234), (325, 45276), (369, 45360), (373, 45363), (382, 45396), (384, 45402), (386, 45408), (401, 45471), (410, 45507), (415, 45534), (417, 45549), (421, 45558),

Gene: Diabla_50 Start: 46492, Stop: 45770, Start Num: 170
Candidate Starts for Diabla_50:
(Start: 170 @46492 has 78 MA's), (182, 46453), (207, 46375), (238, 46300), (245, 46285), (287, 46201), (318, 46126), (398, 45922), (400, 45892), (424, 45790),

Gene: DillTech15_74 Start: 44613, Stop: 45275, Start Num: 155
Candidate Starts for DillTech15_74:
(Start: 117 @44532 has 1 MA's), (Start: 120 @44541 has 3 MA's), (133, 44568), (Start: 155 @44613 has 8 MA's), (172, 44646), (191, 44700), (200, 44727), (237, 44787), (282, 44877), (290, 44889), (301, 44922), (365, 45039), (382, 45087), (395, 45120), (400, 45156), (421, 45246),

Gene: Divya_14 Start: 9831, Stop: 10529, Start Num: 160
Candidate Starts for Divya_14:
(Start: 160 @9831 has 7 MA's), (191, 9915), (282, 10119),

Gene: DobbysSock_52 Start: 38487, Stop: 39110, Start Num: 163
Candidate Starts for DobbysSock_52:
(149, 38466), (Start: 163 @38487 has 63 MA's), (172, 38517), (191, 38571), (235, 38640), (258, 38688), (285, 38721), (322, 38790), (325, 38799), (379, 38904), (382, 38913), (421, 39078),

Gene: DocB7_036 Start: 37520, Stop: 36810, Start Num: 168
Candidate Starts for DocB7_036:
(168, 37520), (171, 37511), (182, 37478), (189, 37451), (192, 37442), (235, 37337), (245, 37310), (303, 37184), (318, 37154), (366, 37052), (410, 36881), (417, 36839), (419, 36827), (422, 36821),

Gene: DoctorFroggo_89 Start: 60618, Stop: 61307, Start Num: 163
Candidate Starts for DoctorFroggo_89:
(137, 60561), (Start: 163 @60618 has 63 MA's), (191, 60699), (320, 60993), (325, 61005), (389, 61143), (395, 61161), (410, 61236), (411, 61242),

Gene: Donkeykong_75 Start: 46725, Stop: 47396, Start Num: 163
Candidate Starts for Donkeykong_75:
(123, 46662), (154, 46716), (Start: 163 @46725 has 63 MA's), (165, 46731), (191, 46806), (263, 46956), (265, 46959), (293, 47007), (337, 47109), (360, 47145), (365, 47154), (382, 47208), (405, 47295), (421, 47367),

Gene: Doom_57 Start: 40834, Stop: 39845, Start Num: 35
Candidate Starts for Doom_57:
(Start: 35 @40834 has 1 MA's), (36, 40828), (45, 40798), (50, 40786), (66, 40729), (94, 40645), (Start: 184 @40408 has 2 MA's), (226, 40312), (233, 40282), (235, 40270), (255, 40225), (302, 40213), (314, 40183), (375, 40060), (377, 40045), (380, 40030), (382, 40027), (396, 39988), (419, 39859),

Gene: Doomphist_77 Start: 47104, Stop: 47772, Start Num: 152
Candidate Starts for Doomphist_77:
(Start: 152 @47104 has 16 MA's), (172, 47143), (191, 47197), (200, 47224), (237, 47284), (282, 47374), (290, 47386), (301, 47419), (382, 47584), (395, 47617), (400, 47653), (421, 47743),

Gene: Eggsie_45 Start: 44453, Stop: 43731, Start Num: 170
Candidate Starts for Eggsie_45:
(Start: 170 @44453 has 78 MA's), (182, 44414), (189, 44387), (199, 44354), (207, 44336), (238, 44261), (245, 44246), (287, 44162), (318, 44087), (380, 43931), (398, 43883), (400, 43853), (424, 43751),

Gene: Ein37_67 Start: 44916, Stop: 45578, Start Num: 163
Candidate Starts for Ein37_67:
(38, 44574), (63, 44655), (77, 44700), (82, 44724), (104, 44775), (126, 44829), (Start: 155 @44904 has 8 MA's), (157, 44907), (Start: 163 @44916 has 63 MA's), (172, 44943), (253, 45117), (288, 45195), (292, 45201), (299, 45225), (305, 45234), (325, 45276), (369, 45360), (373, 45363), (382, 45396), (384, 45402), (386, 45408), (401, 45471), (410, 45507), (415, 45534), (417, 45549), (421, 45558),

Gene: Ekhein_47 Start: 44256, Stop: 43534, Start Num: 170
Candidate Starts for Ekhein_47:
(Start: 170 @44256 has 78 MA's), (182, 44217), (189, 44190), (207, 44139), (238, 44064), (245, 44049), (287, 43965), (318, 43890), (380, 43734), (398, 43686), (400, 43656), (424, 43554),

Gene: Emma_69 Start: 43700, Stop: 44650, Start Num: 110
Candidate Starts for Emma_69:
(Start: 110 @43700 has 30 MA's), (151, 43802), (167, 43832), (173, 43853), (196, 43925), (202, 43949), (214, 43973), (223, 44003), (225, 44009), (250, 44075), (254, 44081), (268, 44129), (301, 44192), (312, 44222), (323, 44240), (344, 44306), (386, 44441), (390, 44447), (397, 44471), (398, 44474), (400, 44504), (403, 44516), (411, 44549), (417, 44585), (418, 44594), (424, 44606), (429, 44612), (434, 44624), (439, 44633),

Gene: Emmaloid_68 Start: 43421, Stop: 44344, Start Num: 74
Candidate Starts for Emmaloid_68:
(Start: 74 @43421 has 17 MA's), (Start: 79 @43448 has 1 MA's), (Start: 101 @43490 has 3 MA's), (150, 43607), (Start: 155 @43616 has 8 MA's), (165, 43637), (195, 43703), (233, 43739), (236, 43751), (259, 43808), (278, 43853), (281, 43859), (367, 44084), (368, 44087),

Gene: Empress_72 Start: 45915, Stop: 46583, Start Num: 152
Candidate Starts for Empress_72:
(Start: 152 @45915 has 16 MA's), (172, 45954), (191, 46008), (200, 46035), (237, 46095), (282, 46185), (290, 46197), (301, 46230), (382, 46395), (395, 46428), (400, 46464), (421, 46554),

Gene: Eponine_73 Start: 44480, Stop: 45325, Start Num: 116
Candidate Starts for Eponine_73:
(93, 44429), (Start: 116 @44480 has 22 MA's), (128, 44507), (146, 44537), (230, 44765), (233, 44777), (253, 44825), (278, 44891), (367, 45065), (388, 45143), (397, 45170), (402, 45209),

Gene: Estave1_72 Start: 46536, Stop: 47486, Start Num: 110
Candidate Starts for Estave1_72:
(Start: 110 @46536 has 30 MA's), (151, 46638), (167, 46668), (173, 46689), (196, 46761), (202, 46785), (214, 46809), (223, 46839), (225, 46845), (250, 46911), (254, 46917), (268, 46965), (301, 47028), (312, 47058), (386, 47277), (390, 47283), (397, 47307), (398, 47310), (400, 47340), (403, 47352), (411, 47385), (417, 47421), (418, 47430), (424, 47442), (429, 47448), (434, 47460), (439, 47469), (441, 47478),

Gene: Evanesce_66 Start: 44916, Stop: 45578, Start Num: 163
Candidate Starts for Evanesce_66:
(38, 44574), (63, 44655), (77, 44700), (82, 44724), (104, 44775), (126, 44829), (Start: 155 @44904 has 8 MA's), (157, 44907), (Start: 163 @44916 has 63 MA's), (172, 44943), (253, 45117), (288, 45195), (292, 45201), (299, 45225), (305, 45234), (325, 45276), (369, 45360), (373, 45363), (382, 45396), (384, 45402), (386, 45408), (401, 45471), (410, 45507), (415, 45534), (417, 45549), (421, 45558),

Gene: Exiguo_46 Start: 44268, Stop: 43546, Start Num: 170

Candidate Starts for Exiguo_46:
(Start: 170 @44268 has 78 MA's), (182, 44229), (189, 44202), (207, 44151), (238, 44076), (245, 44061), (287, 43977), (318, 43902), (380, 43746), (398, 43698), (400, 43668), (424, 43566),

Gene: Fajezeel_69 Start: 43491, Stop: 42613, Start Num: 60
Candidate Starts for Fajezeel_69:
(Start: 60 @43491 has 1 MA's), (Start: 67 @43476 has 6 MA's), (Start: 73 @43455 has 4 MA's), (Start: 79 @43425 has 1 MA's), (83, 43422), (98, 43392), (Start: 101 @43383 has 3 MA's), (151, 43263), (233, 43155), (259, 43086), (295, 43011), (377, 42825), (386, 42795), (423, 42636),

Gene: Fancypants_70 Start: 44712, Stop: 45662, Start Num: 110
Candidate Starts for Fancypants_70:
(Start: 110 @44712 has 30 MA's), (151, 44814), (167, 44844), (173, 44865), (196, 44937), (202, 44961), (214, 44985), (223, 45015), (225, 45021), (250, 45087), (254, 45093), (268, 45141), (301, 45204), (312, 45234), (386, 45453), (390, 45459), (397, 45483), (398, 45486), (400, 45516), (403, 45528), (411, 45561), (417, 45597), (418, 45606), (424, 45618), (429, 45624), (434, 45636), (439, 45645),

Gene: Fastidio_67 Start: 41425, Stop: 42081, Start Num: 162
Candidate Starts for Fastidio_67:
(112, 41311), (Start: 162 @41425 has 2 MA's), (172, 41452), (191, 41506), (200, 41533), (237, 41593), (282, 41683), (290, 41695), (301, 41728), (365, 41845), (382, 41893), (395, 41926), (400, 41962), (421, 42052),

Gene: FelixAlejandro_51 Start: 46760, Stop: 46038, Start Num: 170
Candidate Starts for FelixAlejandro_51:
(Start: 170 @46760 has 78 MA's), (182, 46721), (189, 46694), (199, 46661), (207, 46643), (238, 46568), (245, 46553), (287, 46469), (318, 46394), (397, 46193), (398, 46190), (424, 46058),

Gene: Filuzino_64 Start: 41219, Stop: 42205, Start Num: 74
Candidate Starts for Filuzino_64:
(Start: 74 @41219 has 17 MA's), (Start: 79 @41246 has 1 MA's), (84, 41252), (Start: 101 @41288 has 3 MA's), (115, 41315), (124, 41339), (131, 41354), (150, 41405), (167, 41438), (172, 41456), (212, 41585), (221, 41609), (236, 41657), (259, 41714), (367, 41942), (377, 41987), (379, 41996), (397, 42047),

Gene: Fionnbharth_71 Start: 43878, Stop: 44723, Start Num: 116
Candidate Starts for Fionnbharth_71:
(93, 43827), (Start: 116 @43878 has 22 MA's), (128, 43905), (146, 43935), (230, 44163), (233, 44175), (253, 44223), (278, 44289), (367, 44463), (388, 44541), (397, 44568), (402, 44607),

Gene: Fitzgerald_83 Start: 58102, Stop: 58800, Start Num: 164
Candidate Starts for Fitzgerald_83:
(8, 57355), (29, 57724), (47, 57790), (134, 58027), (143, 58051), (Start: 164 @58102 has 36 MA's), (178, 58150), (182, 58159), (Start: 184 @58171 has 2 MA's), (231, 58279), (256, 58339), (293, 58420), (297, 58435), (303, 58456), (372, 58588), (382, 58621), (397, 58663), (403, 58708), (411, 58741), (416, 58768), (422, 58789),

Gene: Flakey_46 Start: 45132, Stop: 44410, Start Num: 170
Candidate Starts for Flakey_46:
(Start: 170 @45132 has 78 MA's), (182, 45093), (189, 45066), (207, 45015), (238, 44940), (245, 44925), (287, 44841), (318, 44766), (380, 44610), (398, 44562), (400, 44532), (424, 44430),

Gene: Flathead_72 Start: 45157, Stop: 46023, Start Num: 120
Candidate Starts for Flathead_72:
(86, 45073), (91, 45085), (Start: 120 @45157 has 3 MA's), (Start: 163 @45256 has 63 MA's), (172, 45286), (183, 45319), (Start: 184 @45328 has 2 MA's), (199, 45376), (218, 45409), (237, 45478), (266, 45550), (279, 45574), (287, 45589), (366, 45760), (374, 45796), (394, 45862), (397, 45868), (416, 45973), (421, 45991),

Gene: Forge_62 Start: 44916, Stop: 45578, Start Num: 163
Candidate Starts for Forge_62:
(38, 44574), (63, 44655), (77, 44700), (82, 44724), (104, 44775), (126, 44829), (Start: 155 @44904 has 8 MA's), (157, 44907), (Start: 163 @44916 has 63 MA's), (172, 44943), (253, 45117), (288, 45195), (292, 45201), (299, 45225), (305, 45234), (325, 45276), (369, 45360), (373, 45363), (382, 45396), (384, 45402), (386, 45408), (401, 45471), (410, 45507), (415, 45534), (417, 45549), (421, 45558),

Gene: Fosterous_87 Start: 58250, Stop: 58948, Start Num: 164
Candidate Starts for Fosterous_87:
(134, 58175), (143, 58199), (Start: 164 @58250 has 36 MA's), (178, 58298), (182, 58307), (Start: 184 @58319 has 2 MA's), (231, 58427), (256, 58487), (293, 58568), (297, 58583), (303, 58604), (372, 58736), (382, 58769), (397, 58811), (403, 58856), (411, 58889), (416, 58916), (422, 58937),

Gene: Francois_66 Start: 42774, Stop: 43487, Start Num: 164
Candidate Starts for Francois_66:
(71, 42540), (118, 42669), (Start: 164 @42774 has 36 MA's), (172, 42801), (192, 42867), (238, 42975), (303, 43125), (327, 43179), (361, 43236), (380, 43287), (382, 43290), (386, 43302), (396, 43329), (397, 43332), (400, 43365), (422, 43458),

Gene: Frokostdame_67 Start: 43587, Stop: 44648, Start Num: 73
Candidate Starts for Frokostdame_67:
(Start: 73 @43587 has 4 MA's), (Start: 75 @43590 has 13 MA's), (115, 43686), (140, 43743), (150, 43776), (195, 43920), (228, 44010), (230, 44016), (236, 44040), (250, 44073), (259, 44097), (278, 44142), (281, 44148), (367, 44388), (378, 44436), (397, 44493), (409, 44559),

Gene: Fugax_62 Start: 44257, Stop: 45213, Start Num: 75
Candidate Starts for Fugax_62:
(Start: 75 @44257 has 13 MA's), (115, 44353), (150, 44443), (250, 44713), (259, 44737), (278, 44782), (281, 44788), (333, 44887), (378, 44998), (396, 45052),

Gene: GAL1_56 Start: 38270, Stop: 38929, Start Num: 160
Candidate Starts for GAL1_56:
(41, 37952), (48, 37976), (62, 38027), (Start: 73 @38060 has 4 MA's), (88, 38108), (Start: 110 @38156 has 30 MA's), (Start: 116 @38177 has 22 MA's), (144, 38240), (Start: 160 @38270 has 7 MA's), (191, 38354), (262, 38495), (300, 38573), (308, 38588), (324, 38621), (353, 38660), (354, 38663), (360, 38678), (365, 38687), (395, 38768), (410, 38843), (417, 38885), (421, 38900),

Gene: GMA1_63 Start: 37160, Stop: 38131, Start Num: 101
Candidate Starts for GMA1_63:
(Start: 101 @37160 has 3 MA's), (105, 37166), (128, 37220), (196, 37400), (211, 37439), (241, 37535), (283, 37634), (301, 37667), (312, 37697), (315, 37703), (417, 38075),

Gene: GMA4_54 Start: 34872, Stop: 35675, Start Num: 175
Candidate Starts for GMA4_54:
(175, 34872), (177, 34875), (180, 34887), (229, 35037), (247, 35091), (270, 35151), (275, 35157), (307, 35235), (319, 35262), (326, 35277), (330, 35286), (361, 35355), (368, 35370), (390, 35451),

(417, 35589), (442, 35652),

Gene: GMA7_38 Start: 39507, Stop: 38788, Start Num: 170
Candidate Starts for GMA7_38:
(Start: 170 @39507 has 78 MA's), (189, 39441), (199, 39408), (207, 39390), (238, 39315), (245, 39300), (252, 39291), (287, 39216), (318, 39141),

Gene: GTE7_37 Start: 39538, Stop: 38819, Start Num: 170
Candidate Starts for GTE7_37:
(Start: 170 @39538 has 78 MA's), (182, 39499), (189, 39472), (199, 39439), (207, 39421), (238, 39346), (245, 39331), (252, 39322), (287, 39247), (318, 39172),

Gene: GalacticEye_46 Start: 46382, Stop: 45663, Start Num: 170
Candidate Starts for GalacticEye_46:
(Start: 170 @46382 has 78 MA's), (189, 46316), (207, 46265), (211, 46259), (245, 46175), (262, 46130), (287, 46091), (318, 46016), (398, 45812),

Gene: Galadriel_86 Start: 58466, Stop: 59212, Start Num: 164
Candidate Starts for Galadriel_86:
(134, 58391), (143, 58415), (Start: 164 @58466 has 36 MA's), (178, 58514), (182, 58523), (Start: 184 @58535 has 2 MA's), (256, 58733), (260, 58748), (289, 58808), (293, 58814), (294, 58817), (297, 58829), (298, 58835), (303, 58850), (361, 58961), (397, 59075), (403, 59120), (411, 59153), (416, 59180), (422, 59201),

Gene: Galadriel_11 Start: 4990, Stop: 5733, Start Num: 163
Candidate Starts for Galadriel_11:
(Start: 163 @4990 has 63 MA's), (181, 5050), (182, 5053), (192, 5089), (222, 5155), (235, 5200), (241, 5218), (244, 5224), (280, 5302), (304, 5362), (317, 5386), (323, 5395), (334, 5428), (357, 5467), (363, 5476), (381, 5536), (391, 5557), (396, 5575), (397, 5578), (405, 5629), (415, 5677),

Gene: Gallop_53 Start: 37206, Stop: 38183, Start Num: 99
Candidate Starts for Gallop_53:
(99, 37206), (128, 37269), (129, 37272), (151, 37326), (Start: 155 @37332 has 8 MA's), (197, 37455), (202, 37473), (211, 37488), (223, 37527), (225, 37533), (233, 37554), (254, 37605), (268, 37653), (301, 37716), (367, 37908), (379, 37959), (390, 37986), (403, 38055), (416, 38115), (424, 38145), (429, 38151), (437, 38169), (439, 38172),

Gene: Gancho_66 Start: 44643, Stop: 45305, Start Num: 163
Candidate Starts for Gancho_66:
(38, 44301), (63, 44382), (77, 44427), (82, 44451), (104, 44502), (126, 44556), (Start: 155 @44631 has 8 MA's), (157, 44634), (Start: 163 @44643 has 63 MA's), (172, 44670), (253, 44844), (288, 44922), (290, 44925), (292, 44928), (299, 44952), (305, 44961), (325, 45003), (369, 45087), (373, 45090), (382, 45123), (384, 45129), (386, 45135), (401, 45198), (410, 45234), (415, 45261), (417, 45276), (421, 45285),

Gene: Geralt_67 Start: 45011, Stop: 45679, Start Num: 152
Candidate Starts for Geralt_67:
(Start: 152 @45011 has 16 MA's), (172, 45050), (191, 45104), (200, 45131), (237, 45191), (282, 45281), (290, 45293), (301, 45326), (382, 45491), (395, 45524), (400, 45560), (421, 45650),

Gene: Getalong_67 Start: 41639, Stop: 42277, Start Num: 160
Candidate Starts for Getalong_67:

(145, 41618), (Start: 160 @41639 has 7 MA's), (172, 41669), (191, 41723), (200, 41750), (262, 41852), (300, 41930), (382, 42083), (421, 42248),

Gene: Giles_62 Start: 44916, Stop: 45578, Start Num: 163
Candidate Starts for Giles_62:
(38, 44574), (63, 44655), (77, 44700), (82, 44724), (104, 44775), (126, 44829), (Start: 155 @44904 has 8 MA's), (157, 44907), (Start: 163 @44916 has 63 MA's), (172, 44943), (253, 45117), (288, 45195), (292, 45201), (299, 45225), (305, 45234), (325, 45276), (369, 45360), (373, 45363), (382, 45396), (384, 45402), (386, 45408), (401, 45471), (410, 45507), (415, 45534), (417, 45549), (421, 45558),

Gene: Gorko_46 Start: 44260, Stop: 43538, Start Num: 170
Candidate Starts for Gorko_46:
(Start: 170 @44260 has 78 MA's), (182, 44221), (189, 44194), (207, 44143), (238, 44068), (245, 44053), (287, 43969), (318, 43894), (380, 43738), (398, 43690), (400, 43660), (424, 43558),

Gene: GourdThymes_46 Start: 45134, Stop: 44412, Start Num: 170
Candidate Starts for GourdThymes_46:
(Start: 170 @45134 has 78 MA's), (182, 45095), (189, 45068), (207, 45017), (238, 44942), (245, 44927), (287, 44843), (318, 44768), (380, 44612), (398, 44564), (400, 44534), (424, 44432),

Gene: GrandSlam_68 Start: 43754, Stop: 44467, Start Num: 164
Candidate Starts for GrandSlam_68:
(71, 43520), (118, 43649), (Start: 164 @43754 has 36 MA's), (172, 43781), (192, 43847), (294, 44072), (303, 44105), (327, 44159), (361, 44216), (380, 44267), (382, 44270), (396, 44309), (400, 44345),

Gene: Gravaillia_63 Start: 44924, Stop: 45586, Start Num: 163
Candidate Starts for Gravaillia_63:
(38, 44582), (63, 44663), (77, 44708), (82, 44732), (104, 44783), (126, 44837), (Start: 155 @44912 has 8 MA's), (157, 44915), (Start: 163 @44924 has 63 MA's), (172, 44951), (253, 45125), (288, 45203), (292, 45209), (299, 45233), (305, 45242), (325, 45284), (369, 45368), (373, 45371), (382, 45404), (384, 45410), (386, 45416), (401, 45479), (410, 45515), (415, 45542), (417, 45557), (421, 45566),

Gene: GrecoEtereo_68 Start: 43047, Stop: 42184, Start Num: 67
Candidate Starts for GrecoEtereo_68:
(Start: 60 @43062 has 1 MA's), (Start: 67 @43047 has 6 MA's), (Start: 73 @43026 has 4 MA's), (Start: 79 @42996 has 1 MA's), (83, 42993), (98, 42963), (Start: 101 @42954 has 3 MA's), (151, 42834), (233, 42726), (259, 42657), (295, 42582), (377, 42396), (386, 42366), (423, 42207),

Gene: Greg_69 Start: 43455, Stop: 42613, Start Num: 73
Candidate Starts for Greg_69:
(Start: 60 @43491 has 1 MA's), (Start: 67 @43476 has 6 MA's), (Start: 73 @43455 has 4 MA's), (Start: 79 @43425 has 1 MA's), (83, 43422), (98, 43392), (Start: 101 @43383 has 3 MA's), (151, 43263), (233, 43155), (259, 43086), (295, 43011), (377, 42825), (386, 42795), (423, 42636),

Gene: Gudmit_63 Start: 37864, Stop: 38583, Start Num: 163
Candidate Starts for Gudmit_63:
(Start: 163 @37864 has 63 MA's), (172, 37894), (182, 37924), (Start: 184 @37936 has 2 MA's), (260, 38116), (297, 38197), (303, 38218), (380, 38380), (386, 38395), (397, 38425), (426, 38554),

Gene: Guillaume_46 Start: 46432, Stop: 45713, Start Num: 170
Candidate Starts for Guillaume_46:
(Start: 170 @46432 has 78 MA's), (189, 46366), (207, 46315), (211, 46309), (245, 46225), (262, 46180), (287, 46141), (318, 46066), (323, 46057), (398, 45862),

Gene: HC_55 Start: 36568, Stop: 37686, Start Num: 40
Candidate Starts for HC_55:
(27, 36517), (31, 36532), (Start: 40 @36568 has 1 MA's), (Start: 74 @36679 has 17 MA's), (Start: 79 @36709 has 1 MA's), (115, 36778), (124, 36802), (131, 36817), (150, 36868), (167, 36901), (212, 37048), (221, 37072), (236, 37120), (259, 37177), (278, 37222), (350, 37384), (367, 37423), (397, 37528),

Gene: HH92_66 Start: 44916, Stop: 45578, Start Num: 163
Candidate Starts for HH92_66:
(38, 44574), (63, 44655), (77, 44700), (82, 44724), (104, 44775), (126, 44829), (Start: 155 @44904 has 8 MA's), (157, 44907), (Start: 163 @44916 has 63 MA's), (172, 44943), (253, 45117), (288, 45195), (292, 45201), (299, 45225), (305, 45234), (325, 45276), (369, 45360), (373, 45363), (382, 45396), (384, 45402), (386, 45408), (401, 45471), (410, 45507), (415, 45534), (417, 45549), (421, 45558),

Gene: Hadrien_66 Start: 44916, Stop: 45578, Start Num: 163
Candidate Starts for Hadrien_66:
(38, 44574), (63, 44655), (77, 44700), (82, 44724), (104, 44775), (126, 44829), (Start: 155 @44904 has 8 MA's), (157, 44907), (Start: 163 @44916 has 63 MA's), (172, 44943), (253, 45117), (288, 45195), (292, 45201), (299, 45225), (305, 45234), (325, 45276), (369, 45360), (373, 45363), (382, 45396), (384, 45402), (386, 45408), (401, 45471), (410, 45507), (415, 45534), (417, 45549), (421, 45558),

Gene: Hail_62 Start: 44916, Stop: 45578, Start Num: 163
Candidate Starts for Hail_62:
(38, 44574), (63, 44655), (77, 44700), (82, 44724), (104, 44775), (126, 44829), (Start: 155 @44904 has 8 MA's), (157, 44907), (Start: 163 @44916 has 63 MA's), (172, 44943), (253, 45117), (288, 45195), (292, 45201), (299, 45225), (305, 45234), (325, 45276), (369, 45360), (373, 45363), (382, 45396), (384, 45402), (386, 45408), (401, 45471), (410, 45507), (415, 45534), (417, 45549), (421, 45558),

Gene: Hail2Pitt_45 Start: 46908, Stop: 46189, Start Num: 170
Candidate Starts for Hail2Pitt_45:
(Start: 170 @46908 has 78 MA's), (189, 46842), (207, 46791), (211, 46785), (245, 46701), (262, 46656), (287, 46617), (318, 46542), (323, 46533), (398, 46338),

Gene: Hamood_68 Start: 43754, Stop: 44467, Start Num: 164
Candidate Starts for Hamood_68:
(71, 43520), (118, 43649), (Start: 164 @43754 has 36 MA's), (172, 43781), (192, 43847), (294, 44072), (303, 44105), (327, 44159), (361, 44216), (380, 44267), (382, 44270), (396, 44309), (400, 44345),

Gene: Hamulus_73 Start: 46052, Stop: 46708, Start Num: 163
Candidate Starts for Hamulus_73:
(Start: 101 @45920 has 3 MA's), (Start: 155 @46043 has 8 MA's), (Start: 163 @46052 has 63 MA's), (165, 46058), (191, 46133), (200, 46160), (237, 46220), (282, 46310), (290, 46322), (301, 46355), (308, 46370), (382, 46520), (395, 46553), (400, 46589), (421, 46679),

Gene: Harambe_46 Start: 46699, Stop: 45980, Start Num: 170
Candidate Starts for Harambe_46:
(Start: 170 @46699 has 78 MA's), (189, 46633), (207, 46582), (211, 46576), (245, 46492), (262, 46447), (283, 46414), (287, 46408), (318, 46333), (398, 46129),

Gene: HarryOW_66 Start: 43503, Stop: 42691, Start Num: 79
Candidate Starts for HarryOW_66:

(Start: 60 @43569 has 1 MA's), (Start: 67 @43554 has 6 MA's), (Start: 73 @43533 has 4 MA's), (Start: 79 @43503 has 1 MA's), (83, 43500), (98, 43470), (Start: 101 @43461 has 3 MA's), (151, 43341), (233, 43233), (259, 43164), (295, 43089), (377, 42903), (386, 42873), (423, 42714),

Gene: HayZem_48 Start: 45290, Stop: 44571, Start Num: 170
Candidate Starts for HayZem_48:
(Start: 170 @45290 has 78 MA's), (182, 45251), (189, 45224), (199, 45191), (207, 45173), (238, 45098), (245, 45083), (252, 45074), (287, 44999), (318, 44924),

Gene: Hegedechwinu_81 Start: 47355, Stop: 48155, Start Num: 159
Candidate Starts for Hegedechwinu_81:
(Start: 159 @47355 has 4 MA's), (Start: 161 @47358 has 1 MA's), (172, 47391), (183, 47424), (Start: 184 @47433 has 2 MA's), (199, 47481), (218, 47514), (237, 47583), (266, 47655), (279, 47679), (287, 47694), (366, 47865), (374, 47901), (394, 47967), (397, 47973), (416, 48078), (421, 48096), (438, 48126),

Gene: Hello_46 Start: 46661, Stop: 45942, Start Num: 170
Candidate Starts for Hello_46:
(Start: 170 @46661 has 78 MA's), (189, 46595), (207, 46544), (211, 46538), (245, 46454), (262, 46409), (287, 46370), (318, 46295), (398, 46091),

Gene: Holliday_69 Start: 42905, Stop: 43861, Start Num: 101
Candidate Starts for Holliday_69:
(Start: 101 @42905 has 3 MA's), (129, 42965), (Start: 155 @43025 has 8 MA's), (173, 43070), (196, 43142), (214, 43190), (225, 43226), (250, 43292), (254, 43298), (312, 43439), (346, 43550), (403, 43733), (424, 43823), (429, 43829),

Gene: Hollow_43 Start: 45997, Stop: 45281, Start Num: 170
Candidate Starts for Hollow_43:
(Start: 170 @45997 has 78 MA's), (174, 45982), (207, 45880), (245, 45790), (249, 45784), (318, 45631), (351, 45568), (361, 45538), (380, 45475), (417, 45316),

Gene: Hotorobo_46 Start: 45139, Stop: 44417, Start Num: 170
Candidate Starts for Hotorobo_46:
(Start: 170 @45139 has 78 MA's), (182, 45100), (189, 45073), (207, 45022), (238, 44947), (245, 44932), (287, 44848), (318, 44773), (380, 44617), (398, 44569), (400, 44539), (424, 44437),

Gene: Hyzer_73 Start: 48832, Stop: 49506, Start Num: 163
Candidate Starts for Hyzer_73:
(Start: 160 @48829 has 7 MA's), (Start: 163 @48832 has 63 MA's), (172, 48859), (191, 48913), (200, 48940), (245, 49021), (253, 49030), (300, 49132), (338, 49216), (382, 49318), (397, 49354), (411, 49432), (421, 49477),

Gene: IMpilo_63 Start: 41773, Stop: 42438, Start Num: 155
Candidate Starts for IMpilo_63:
(130, 41719), (Start: 155 @41773 has 8 MA's), (Start: 163 @41782 has 63 MA's), (165, 41788), (191, 41863), (200, 41890), (237, 41950), (282, 42040), (290, 42052), (301, 42085), (308, 42100), (382, 42250), (395, 42283), (400, 42319), (421, 42409),

Gene: IMpilo_61 Start: 40322, Stop: 41200, Start Num: 74
Candidate Starts for IMpilo_61:
(Start: 74 @40322 has 17 MA's), (Start: 79 @40349 has 1 MA's), (84, 40355), (Start: 101 @40391 has 3 MA's), (150, 40508), (Start: 155 @40517 has 8 MA's), (Start: 163 @40529 has 63 MA's), (165,

40538), (206, 40604), (259, 40709), (278, 40754), (281, 40760), (316, 40817), (331, 40838), (367, 40940), (380, 41000), (397, 41045),

Gene: Ibhubesi_66 Start: 42310, Stop: 42972, Start Num: 163
Candidate Starts for Ibhubesi_66:
(82, 42133), (85, 42139), (90, 42148), (134, 42253), (Start: 163 @42310 has 63 MA's), (191, 42391), (293, 42583), (318, 42643), (380, 42781), (382, 42784), (410, 42892), (417, 42934), (421, 42943),

Gene: Ibrahim_60 Start: 41425, Stop: 42162, Start Num: 169
Candidate Starts for Ibrahim_60:
(24, 41008), (102, 41266), (106, 41272), (Start: 169 @41425 has 7 MA's), (182, 41467), (204, 41539), (215, 41557), (261, 41683), (266, 41701), (318, 41815), (332, 41851), (358, 41896), (382, 41980), (385, 41989), (387, 41992), (393, 42001), (397, 42019), (423, 42151),

Gene: Inventum_72 Start: 45927, Stop: 46595, Start Num: 152
Candidate Starts for Inventum_72:
(Start: 152 @45927 has 16 MA's), (172, 45966), (191, 46020), (200, 46047), (237, 46107), (282, 46197), (290, 46209), (301, 46242), (382, 46407), (395, 46440), (400, 46476), (421, 46566),

Gene: Island3_55 Start: 37346, Stop: 37996, Start Num: 163
Candidate Starts for Island3_55:
(Start: 163 @37346 has 63 MA's), (245, 37532), (262, 37568), (270, 37583), (273, 37586), (324, 37694), (368, 37760), (384, 37814), (397, 37844), (421, 37967),

Gene: JF1_71 Start: 43844, Stop: 44689, Start Num: 116
Candidate Starts for JF1_71:
(Start: 116 @43844 has 22 MA's), (128, 43871), (146, 43901), (230, 44129), (233, 44141), (253, 44189), (278, 44255), (367, 44429), (388, 44507), (397, 44534), (402, 44573),

Gene: JKSyngboy_82 Start: 57242, Stop: 57988, Start Num: 163
Candidate Starts for JKSyngboy_82:
(8, 56504), (25, 56852), (134, 57170), (143, 57194), (Start: 163 @57242 has 63 MA's), (174, 57275), (178, 57290), (182, 57299), (Start: 184 @57311 has 2 MA's), (239, 57479), (256, 57509), (260, 57524), (293, 57590), (294, 57593), (297, 57605), (298, 57611), (303, 57626), (350, 57704), (397, 57851), (403, 57896), (417, 57965),

Gene: Jabberwocky_84 Start: 58563, Stop: 59261, Start Num: 164
Candidate Starts for Jabberwocky_84:
(8, 57816), (29, 58185), (47, 58251), (134, 58488), (143, 58512), (Start: 164 @58563 has 36 MA's), (178, 58611), (182, 58620), (Start: 184 @58632 has 2 MA's), (231, 58740), (256, 58800), (293, 58881), (297, 58896), (303, 58917), (372, 59049), (382, 59082), (397, 59124), (403, 59169), (411, 59202), (416, 59229), (422, 59250),

Gene: JalFarm20_88 Start: 49372, Stop: 50172, Start Num: 159
Candidate Starts for JalFarm20_88:
(Start: 159 @49372 has 4 MA's), (Start: 161 @49375 has 1 MA's), (172, 49408), (183, 49441), (Start: 184 @49450 has 2 MA's), (199, 49498), (218, 49531), (237, 49600), (266, 49672), (279, 49696), (287, 49711), (366, 49882), (374, 49918), (394, 49984), (397, 49990), (416, 50095), (421, 50113), (438, 50143),

Gene: JalFarm20_79 Start: 46369, Stop: 47022, Start Num: 163
Candidate Starts for JalFarm20_79:

(107, 46255), (Start: 163 @46369 has 63 MA's), (191, 46450), (200, 46477), (234, 46516), (262, 46588), (282, 46624), (301, 46669), (329, 46732), (380, 46831), (382, 46834), (395, 46867), (421, 46993),

Gene: Jams_46 Start: 45870, Stop: 45151, Start Num: 170
Candidate Starts for Jams_46:
(Start: 170 @45870 has 78 MA's), (189, 45804), (202, 45762), (207, 45753), (211, 45747), (245, 45663), (262, 45618), (283, 45585), (287, 45579), (318, 45504), (398, 45300),

Gene: Jarcob_66 Start: 44101, Stop: 45051, Start Num: 110
Candidate Starts for Jarcob_66:
(Start: 110 @44101 has 30 MA's), (151, 44203), (167, 44233), (173, 44254), (196, 44326), (202, 44350), (214, 44374), (223, 44404), (225, 44410), (250, 44476), (254, 44482), (268, 44530), (301, 44593), (312, 44623), (323, 44641), (344, 44707), (386, 44842), (390, 44848), (397, 44872), (400, 44905), (403, 44917), (411, 44950), (417, 44986), (418, 44995), (424, 45007), (429, 45013), (434, 45025), (439, 45034),

Gene: Jellybones_49 Start: 46241, Stop: 45519, Start Num: 170
Candidate Starts for Jellybones_49:
(Start: 170 @46241 has 78 MA's), (182, 46202), (189, 46175), (199, 46142), (207, 46124), (238, 46049), (245, 46034), (287, 45950), (318, 45875), (380, 45719), (398, 45671), (400, 45641), (424, 45539),

Gene: Jennelsea_65 Start: 42827, Stop: 43777, Start Num: 110
Candidate Starts for Jennelsea_65:
(Start: 110 @42827 has 30 MA's), (151, 42929), (167, 42959), (173, 42980), (196, 43052), (202, 43076), (214, 43100), (223, 43130), (225, 43136), (250, 43202), (254, 43208), (268, 43256), (301, 43319), (312, 43349), (386, 43568), (390, 43574), (397, 43598), (398, 43601), (400, 43631), (403, 43643), (411, 43676), (417, 43712), (418, 43721), (424, 43733), (429, 43739), (434, 43751), (439, 43760), (441, 43769),

Gene: Jinkies_19 Start: 14524, Stop: 15195, Start Num: 163
Candidate Starts for Jinkies_19:
(119, 14434), (158, 14518), (Start: 163 @14524 has 63 MA's), (191, 14608), (200, 14635), (245, 14701), (273, 14752), (324, 14863), (382, 15013), (383, 15016), (395, 15046), (415, 15148), (417, 15163),

Gene: JoeyJr_74 Start: 46916, Stop: 47584, Start Num: 152
Candidate Starts for JoeyJr_74:
(Start: 152 @46916 has 16 MA's), (172, 46955), (191, 47009), (200, 47036), (237, 47096), (282, 47186), (290, 47198), (301, 47231), (382, 47396), (395, 47429), (400, 47465), (421, 47555),

Gene: John316_50 Start: 46297, Stop: 45575, Start Num: 170
Candidate Starts for John316_50:
(Start: 170 @46297 has 78 MA's), (182, 46258), (189, 46231), (207, 46180), (238, 46105), (245, 46090), (287, 46006), (318, 45931), (380, 45775), (398, 45727), (400, 45697), (424, 45595),

Gene: Jormungandr_46 Start: 46414, Stop: 45695, Start Num: 170
Candidate Starts for Jormungandr_46:
(Start: 170 @46414 has 78 MA's), (189, 46348), (207, 46297), (211, 46291), (245, 46207), (262, 46162), (287, 46123), (318, 46048), (323, 46039), (398, 45844),

Gene: Journey_55 Start: 36648, Stop: 37631, Start Num: 74

Candidate Starts for Journey_55:
(Start: 74 @36648 has 17 MA's), (Start: 79 @36675 has 1 MA's), (Start: 101 @36717 has 3 MA's), (150, 36834), (165, 36864), (216, 37020), (259, 37143), (278, 37188), (281, 37194), (306, 37236), (367, 37362), (378, 37410), (386, 37437),

Gene: Journey_54 Start: 35843, Stop: 36610, Start Num: 108
Candidate Starts for Journey_54:
(Start: 108 @35843 has 1 MA's), (113, 35852), (122, 35879), (Start: 160 @35945 has 7 MA's), (172, 35975), (191, 36029), (318, 36281), (382, 36422), (386, 36434), (395, 36455), (421, 36581),

Gene: Juice456_67 Start: 44325, Stop: 44978, Start Num: 163
Candidate Starts for Juice456_67:
(107, 44211), (Start: 163 @44325 has 63 MA's), (191, 44406), (200, 44433), (234, 44472), (262, 44544), (282, 44580), (301, 44625), (329, 44688), (380, 44787), (382, 44790), (395, 44823), (421, 44949),

Gene: JuliaChild_70 Start: 44385, Stop: 43519, Start Num: 65
Candidate Starts for JuliaChild_70:
(56, 44412), (61, 44391), (Start: 65 @44385 has 7 MA's), (Start: 79 @44328 has 1 MA's), (83, 44325), (98, 44295), (Start: 101 @44286 has 3 MA's), (151, 44166), (233, 44058), (259, 43989), (295, 43914), (377, 43728), (386, 43698), (423, 43539),

Gene: Juliette_73 Start: 43942, Stop: 44787, Start Num: 116
Candidate Starts for Juliette_73:
(93, 43891), (Start: 116 @43942 has 22 MA's), (128, 43969), (146, 43999), (230, 44227), (233, 44239), (253, 44287), (278, 44353), (367, 44527), (388, 44605), (397, 44632), (402, 44671),

Gene: Jung_56 Start: 37454, Stop: 38110, Start Num: 163
Candidate Starts for Jung_56:
(Start: 155 @37445 has 8 MA's), (Start: 163 @37454 has 63 MA's), (165, 37460), (191, 37535), (200, 37562), (237, 37622), (282, 37712), (290, 37724), (301, 37757), (382, 37922), (395, 37955), (400, 37991), (421, 38081), (435, 38102),

Gene: Juniormint_55 Start: 36637, Stop: 37290, Start Num: 155
Candidate Starts for Juniormint_55:
(Start: 117 @36556 has 1 MA's), (Start: 120 @36565 has 3 MA's), (133, 36592), (Start: 155 @36637 has 8 MA's), (172, 36670), (200, 36751), (237, 36811), (282, 36901), (290, 36913), (301, 36946), (382, 37111), (395, 37144), (400, 37180), (415, 37246), (421, 37270),

Gene: Juniper1_67 Start: 44073, Stop: 44747, Start Num: 163
Candidate Starts for Juniper1_67:
(138, 44025), (Start: 163 @44073 has 63 MA's), (172, 44100), (191, 44154), (217, 44202), (253, 44280), (262, 44304), (271, 44319), (274, 44322), (352, 44475), (360, 44496), (362, 44499), (387, 44574), (400, 44628), (421, 44718),

Gene: Juniper1_66 Start: 43088, Stop: 44041, Start Num: 74
Candidate Starts for Juniper1_66:
(23, 42911), (27, 42926), (55, 43031), (Start: 74 @43088 has 17 MA's), (Start: 79 @43115 has 1 MA's), (84, 43121), (95, 43145), (150, 43274), (Start: 155 @43283 has 8 MA's), (165, 43304), (259, 43541), (262, 43553), (267, 43565), (281, 43592), (311, 43646), (341, 43712), (348, 43745), (367, 43781), (397, 43886),

Gene: KSSJEB_67 Start: 42872, Stop: 42006, Start Num: 67

Candidate Starts for KSSJEB_67:
(Start: 60 @42887 has 1 MA's), (Start: 67 @42872 has 6 MA's), (Start: 73 @42851 has 4 MA's), (Start: 79 @42818 has 1 MA's), (83, 42815), (98, 42785), (Start: 101 @42776 has 3 MA's), (151, 42656), (233, 42548), (259, 42479), (295, 42404), (377, 42218), (386, 42188), (423, 42029),

Gene: Kamashten_86 Start: 58360, Stop: 59106, Start Num: 164
Candidate Starts for Kamashten_86:
(134, 58285), (143, 58309), (Start: 164 @58360 has 36 MA's), (178, 58408), (182, 58417), (Start: 184 @58429 has 2 MA's), (256, 58627), (260, 58642), (289, 58702), (293, 58708), (294, 58711), (297, 58723), (298, 58729), (303, 58744), (361, 58855), (397, 58969), (403, 59014), (411, 59047), (416, 59074), (422, 59095),

Gene: Kamashten_10 Start: 5311, Stop: 6054, Start Num: 163
Candidate Starts for Kamashten_10:
(Start: 163 @5311 has 63 MA's), (181, 5371), (182, 5374), (192, 5410), (222, 5476), (235, 5521), (241, 5539), (244, 5545), (280, 5623), (304, 5683), (317, 5707), (323, 5716), (334, 5749), (357, 5788), (363, 5797), (381, 5857), (391, 5878), (396, 5896), (397, 5899), (405, 5950), (415, 5998),

Gene: Kaseim_46 Start: 45855, Stop: 45136, Start Num: 170
Candidate Starts for Kaseim_46:
(Start: 170 @45855 has 78 MA's), (189, 45789), (202, 45747), (207, 45738), (211, 45732), (245, 45648), (262, 45603), (283, 45570), (287, 45564), (318, 45489), (398, 45285),

Gene: Katyusha_42 Start: 45651, Stop: 44935, Start Num: 170
Candidate Starts for Katyusha_42:
(Start: 170 @45651 has 78 MA's), (174, 45636), (207, 45534), (245, 45444), (249, 45438), (318, 45285), (351, 45222), (361, 45192), (417, 44970),

Gene: Keitabear_83 Start: 58873, Stop: 59571, Start Num: 164
Candidate Starts for Keitabear_83:
(8, 58126), (29, 58495), (47, 58561), (134, 58798), (143, 58822), (Start: 164 @58873 has 36 MA's), (178, 58921), (182, 58930), (Start: 184 @58942 has 2 MA's), (231, 59050), (256, 59110), (293, 59191), (297, 59206), (303, 59227), (372, 59359), (382, 59392), (397, 59434), (403, 59479), (411, 59512), (416, 59539), (422, 59560),

Gene: Kelzog_48 Start: 45146, Stop: 44424, Start Num: 170
Candidate Starts for Kelzog_48:
(Start: 170 @45146 has 78 MA's), (182, 45107), (189, 45080), (207, 45029), (238, 44954), (245, 44939), (287, 44855), (318, 44780), (380, 44624), (398, 44576), (400, 44546), (424, 44444),

Gene: KimmyK_60 Start: 44699, Stop: 45655, Start Num: 75
Candidate Starts for KimmyK_60:
(Start: 75 @44699 has 13 MA's), (115, 44795), (150, 44885), (250, 45155), (259, 45179), (278, 45224), (281, 45230), (333, 45329), (378, 45440), (396, 45494),

Gene: Kinbote_65 Start: 44916, Stop: 45578, Start Num: 163
Candidate Starts for Kinbote_65:
(38, 44574), (63, 44655), (77, 44700), (82, 44724), (104, 44775), (126, 44829), (Start: 155 @44904 has 8 MA's), (157, 44907), (Start: 163 @44916 has 63 MA's), (172, 44943), (253, 45117), (288, 45195), (292, 45201), (299, 45225), (305, 45234), (325, 45276), (369, 45360), (373, 45363), (382, 45396), (384, 45402), (386, 45408), (401, 45471), (410, 45507), (415, 45534), (417, 45549), (421, 45558),

Gene: KingMidas_73 Start: 46330, Stop: 46998, Start Num: 152

Candidate Starts for KingMidas_73:
(Start: 152 @46330 has 16 MA's), (172, 46369), (191, 46423), (200, 46450), (237, 46510), (282, 46600), (290, 46612), (301, 46645), (382, 46810), (395, 46843), (400, 46879), (421, 46969),

Gene: Koella_61 Start: 40075, Stop: 41025, Start Num: 110
Candidate Starts for Koella_61:
(Start: 110 @40075 has 30 MA's), (151, 40177), (167, 40207), (173, 40228), (196, 40300), (202, 40324), (214, 40348), (223, 40378), (225, 40384), (250, 40450), (254, 40456), (268, 40504), (301, 40567), (312, 40597), (386, 40816), (390, 40822), (397, 40846), (398, 40849), (400, 40879), (403, 40891), (411, 40924), (417, 40960), (418, 40969), (424, 40981), (429, 40987), (434, 40999), (439, 41008),

Gene: Kraw_71 Start: 43630, Stop: 44475, Start Num: 116
Candidate Starts for Kraw_71:
(93, 43579), (Start: 116 @43630 has 22 MA's), (128, 43657), (146, 43687), (230, 43915), (233, 43927), (253, 43975), (278, 44041), (367, 44215), (388, 44293), (397, 44320), (402, 44359),

Gene: KristaRAM_69 Start: 44694, Stop: 45347, Start Num: 163
Candidate Starts for KristaRAM_69:
(107, 44580), (Start: 163 @44694 has 63 MA's), (191, 44775), (200, 44802), (234, 44841), (262, 44913), (282, 44949), (301, 44994), (329, 45057), (380, 45156), (382, 45159), (395, 45192), (421, 45318),

Gene: Kvothe_42 Start: 45550, Stop: 44834, Start Num: 170
Candidate Starts for Kvothe_42:
(Start: 170 @45550 has 78 MA's), (174, 45535), (207, 45433), (245, 45343), (249, 45337), (318, 45184), (351, 45121), (361, 45091), (417, 44869),

Gene: Lahirium_46 Start: 46936, Stop: 46217, Start Num: 170
Candidate Starts for Lahirium_46:
(Start: 170 @46936 has 78 MA's), (189, 46870), (207, 46819), (211, 46813), (245, 46729), (262, 46684), (287, 46645), (318, 46570), (323, 46561), (398, 46366),

Gene: Lamina13_71 Start: 44833, Stop: 43967, Start Num: 65
Candidate Starts for Lamina13_71:
(56, 44860), (61, 44839), (Start: 65 @44833 has 7 MA's), (Start: 79 @44776 has 1 MA's), (83, 44773), (98, 44743), (Start: 101 @44734 has 3 MA's), (151, 44614), (233, 44506), (259, 44437), (295, 44362), (377, 44176), (386, 44146), (423, 43987),

Gene: Lebo14_70 Start: 43963, Stop: 44808, Start Num: 116
Candidate Starts for Lebo14_70:
(93, 43912), (Start: 116 @43963 has 22 MA's), (128, 43990), (146, 44020), (230, 44248), (233, 44260), (253, 44308), (278, 44374), (367, 44548), (388, 44626), (397, 44653), (402, 44692),

Gene: Lennon_85 Start: 59303, Stop: 60049, Start Num: 164
Candidate Starts for Lennon_85:
(8, 58556), (29, 58925), (47, 58991), (134, 59228), (143, 59252), (Start: 164 @59303 has 36 MA's), (178, 59351), (182, 59360), (Start: 184 @59372 has 2 MA's), (256, 59570), (260, 59585), (289, 59645), (293, 59651), (294, 59654), (297, 59666), (298, 59672), (303, 59687), (361, 59798), (397, 59912), (403, 59957), (411, 59990), (416, 60017), (422, 60038),

Gene: Leperchaun_72 Start: 46150, Stop: 46818, Start Num: 152
Candidate Starts for Leperchaun_72:

(Start: 152 @46150 has 16 MA's), (172, 46189), (191, 46243), (200, 46270), (237, 46330), (282, 46420), (290, 46432), (301, 46465), (382, 46630), (395, 46663), (400, 46699), (421, 46789),

Gene: Lidong_46 Start: 46670, Stop: 45951, Start Num: 170
Candidate Starts for Lidong_46:
(Start: 170 @46670 has 78 MA's), (189, 46604), (202, 46562), (207, 46553), (211, 46547), (245, 46463), (262, 46418), (283, 46385), (287, 46379), (318, 46304), (398, 46100),

Gene: LilHazelnut_67 Start: 44916, Stop: 45578, Start Num: 163
Candidate Starts for LilHazelnut_67:
(38, 44574), (63, 44655), (77, 44700), (82, 44724), (104, 44775), (126, 44829), (Start: 155 @44904 has 8 MA's), (157, 44907), (Start: 163 @44916 has 63 MA's), (172, 44943), (253, 45117), (288, 45195), (292, 45201), (299, 45225), (305, 45234), (325, 45276), (369, 45360), (373, 45363), (382, 45396), (384, 45402), (386, 45408), (401, 45471), (410, 45507), (415, 45534), (417, 45549), (421, 45558),

Gene: Linetti_47 Start: 45752, Stop: 45030, Start Num: 170
Candidate Starts for Linetti_47:
(150, 45794), (Start: 170 @45752 has 78 MA's), (182, 45713), (189, 45686), (207, 45635), (238, 45560), (245, 45545), (287, 45461), (318, 45386), (380, 45230), (398, 45182), (400, 45152), (424, 45050),

Gene: LittleShirley_66 Start: 43146, Stop: 43808, Start Num: 163
Candidate Starts for LittleShirley_66:
(82, 42969), (Start: 163 @43146 has 63 MA's), (172, 43173), (191, 43227), (318, 43479), (382, 43620), (386, 43632), (395, 43653), (421, 43779),

Gene: LittleShirley_73 Start: 45098, Stop: 45754, Start Num: 163
Candidate Starts for LittleShirley_73:
(Start: 101 @44966 has 3 MA's), (Start: 155 @45089 has 8 MA's), (Start: 163 @45098 has 63 MA's), (165, 45104), (191, 45179), (200, 45206), (237, 45266), (282, 45356), (290, 45368), (301, 45401), (308, 45416), (382, 45566), (395, 45599), (400, 45635), (421, 45725),

Gene: Lizzo_46 Start: 45128, Stop: 44406, Start Num: 170
Candidate Starts for Lizzo_46:
(Start: 170 @45128 has 78 MA's), (182, 45089), (189, 45062), (207, 45011), (238, 44936), (245, 44921), (287, 44837), (318, 44762), (380, 44606), (398, 44558), (400, 44528), (424, 44426),

Gene: Love_11 Start: 5310, Stop: 6053, Start Num: 163
Candidate Starts for Love_11:
(Start: 163 @5310 has 63 MA's), (181, 5370), (182, 5373), (192, 5409), (222, 5475), (235, 5520), (241, 5538), (244, 5544), (280, 5622), (304, 5682), (317, 5706), (323, 5715), (334, 5748), (357, 5787), (363, 5796), (381, 5856), (391, 5877), (396, 5895), (397, 5898), (405, 5949), (415, 5997),

Gene: Love_91 Start: 59114, Stop: 59854, Start Num: 164
Candidate Starts for Love_91:
(134, 59039), (143, 59063), (Start: 164 @59114 has 36 MA's), (174, 59147), (178, 59162), (182, 59171), (Start: 184 @59183 has 2 MA's), (207, 59249), (256, 59375), (260, 59390), (293, 59456), (294, 59459), (297, 59471), (303, 59492), (361, 59603), (397, 59717), (403, 59762), (411, 59795), (416, 59822), (422, 59843),

Gene: Luke_66 Start: 44871, Stop: 45533, Start Num: 163
Candidate Starts for Luke_66:

(38, 44529), (63, 44610), (77, 44655), (82, 44679), (104, 44730), (126, 44784), (Start: 155 @44859 has 8 MA's), (157, 44862), (Start: 163 @44871 has 63 MA's), (172, 44898), (253, 45072), (288, 45150), (292, 45156), (299, 45180), (305, 45189), (325, 45231), (369, 45315), (373, 45318), (382, 45351), (384, 45357), (386, 45363), (401, 45426), (410, 45462), (415, 45489), (417, 45504), (421, 45513),

Gene: Luker_47 Start: 46889, Stop: 46170, Start Num: 170
Candidate Starts for Luker_47:
(Start: 170 @46889 has 78 MA's), (189, 46823), (207, 46772), (211, 46766), (245, 46682), (262, 46637), (287, 46598), (318, 46523), (398, 46319),

Gene: Luna22_62 Start: 44900, Stop: 45562, Start Num: 163
Candidate Starts for Luna22_62:
(38, 44558), (63, 44639), (77, 44684), (82, 44708), (104, 44759), (126, 44813), (Start: 155 @44888 has 8 MA's), (157, 44891), (Start: 163 @44900 has 63 MA's), (172, 44927), (253, 45101), (288, 45179), (292, 45185), (299, 45209), (305, 45218), (325, 45260), (369, 45344), (373, 45347), (382, 45380), (384, 45386), (386, 45392), (401, 45455), (410, 45491), (415, 45518), (417, 45533), (421, 45542),

Gene: Makemake_60 Start: 41383, Stop: 40385, Start Num: 33
Candidate Starts for Makemake_60:
(Start: 33 @41383 has 5 MA's), (63, 41284), (66, 41275), (87, 41230), (Start: 155 @41146 has 8 MA's), (198, 41023), (219, 40981), (276, 40816), (313, 40726), (314, 40723), (375, 40600), (377, 40585), (380, 40570), (382, 40567), (396, 40528), (419, 40399),

Gene: Malisha_72 Start: 44709, Stop: 45665, Start Num: 101
Candidate Starts for Malisha_72:
(Start: 101 @44709 has 3 MA's), (196, 44946), (214, 44994), (223, 45024), (225, 45030), (233, 45051), (323, 45261), (400, 45525), (402, 45531), (403, 45537), (424, 45627),

Gene: Malthus_72 Start: 43630, Stop: 44475, Start Num: 116
Candidate Starts for Malthus_72:
(93, 43579), (Start: 116 @43630 has 22 MA's), (128, 43657), (146, 43687), (230, 43915), (233, 43927), (253, 43975), (278, 44041), (367, 44215), (388, 44293), (397, 44320), (402, 44359),

Gene: Mantra_63 Start: 41560, Stop: 42504, Start Num: 74
Candidate Starts for Mantra_63:
(Start: 74 @41560 has 17 MA's), (147, 41737), (150, 41746), (167, 41779), (193, 41854), (259, 42025), (278, 42070), (281, 42076), (316, 42133), (341, 42184), (367, 42244), (377, 42289), (380, 42304), (397, 42349),

Gene: Maravista_69 Start: 46025, Stop: 46975, Start Num: 110
Candidate Starts for Maravista_69:
(Start: 110 @46025 has 30 MA's), (151, 46127), (167, 46157), (173, 46178), (196, 46250), (202, 46274), (214, 46298), (223, 46328), (225, 46334), (250, 46400), (254, 46406), (268, 46454), (301, 46517), (312, 46547), (386, 46766), (390, 46772), (397, 46796), (398, 46799), (400, 46829), (403, 46841), (411, 46874), (417, 46910), (418, 46919), (424, 46931), (429, 46937), (434, 46949), (439, 46958),

Gene: Marchy_62 Start: 40457, Stop: 39594, Start Num: 67
Candidate Starts for Marchy_62:
(Start: 60 @40472 has 1 MA's), (Start: 67 @40457 has 6 MA's), (Start: 73 @40436 has 4 MA's), (Start: 79 @40406 has 1 MA's), (83, 40403), (98, 40373), (Start: 101 @40364 has 3 MA's), (151, 40244), (233, 40136), (259, 40067), (295, 39992), (377, 39806), (386, 39776), (423, 39617),

Gene: Marker_68 Start: 42811, Stop: 43545, Start Num: 164
Candidate Starts for Marker_68:
(90, 42634), (92, 42640), (96, 42649), (139, 42754), (Start: 164 @42811 has 36 MA's), (182, 42868), (183, 42871), (Start: 184 @42880 has 2 MA's), (192, 42904), (222, 42970), (235, 43015), (246, 43042), (251, 43048), (270, 43096), (280, 43117), (303, 43174), (304, 43177), (317, 43201), (332, 43237), (334, 43243), (354, 43270), (389, 43369), (397, 43393), (400, 43426), (420, 43516),

Gene: Mbo4_26 Start: 25859, Stop: 26965, Start Num: 74
Candidate Starts for Mbo4_26:
(Start: 74 @25859 has 17 MA's), (Start: 101 @25931 has 3 MA's), (150, 26048), (165, 26078), (174, 26105), (233, 26255), (259, 26324), (278, 26369), (328, 26525), (367, 26705), (378, 26753), (409, 26876), (415, 26909), (416, 26915), (428, 26942),

Gene: McCrothy_10 Start: 5166, Stop: 5909, Start Num: 163
Candidate Starts for McCrothy_10:
(Start: 163 @5166 has 63 MA's), (181, 5226), (182, 5229), (192, 5265), (222, 5331), (235, 5376), (241, 5394), (244, 5400), (280, 5478), (304, 5538), (317, 5562), (323, 5571), (334, 5604), (357, 5643), (363, 5652), (381, 5712), (391, 5733), (396, 5751), (397, 5754), (405, 5805), (415, 5853),

Gene: McCrothy_84 Start: 59090, Stop: 59836, Start Num: 164
Candidate Starts for McCrothy_84:
(134, 59015), (143, 59039), (Start: 164 @59090 has 36 MA's), (178, 59138), (182, 59147), (Start: 184 @59159 has 2 MA's), (256, 59357), (260, 59372), (289, 59432), (293, 59438), (294, 59441), (297, 59453), (298, 59459), (303, 59474), (361, 59585), (397, 59699), (403, 59744), (411, 59777), (416, 59804), (422, 59825),

Gene: McKinley_88 Start: 58094, Stop: 58834, Start Num: 164
Candidate Starts for McKinley_88:
(4, 57293), (8, 57347), (29, 57716), (47, 57782), (134, 58019), (143, 58043), (Start: 164 @58094 has 36 MA's), (174, 58127), (178, 58142), (182, 58151), (Start: 184 @58163 has 2 MA's), (256, 58355), (260, 58370), (293, 58436), (294, 58439), (297, 58451), (303, 58472), (361, 58583), (397, 58697), (403, 58742), (411, 58775), (416, 58802), (422, 58823),

Gene: Medindi_62 Start: 39874, Stop: 40860, Start Num: 74
Candidate Starts for Medindi_62:
(Start: 74 @39874 has 17 MA's), (Start: 79 @39901 has 1 MA's), (84, 39907), (Start: 101 @39943 has 3 MA's), (115, 39970), (124, 39994), (131, 40009), (150, 40060), (167, 40093), (172, 40111), (212, 40240), (221, 40264), (236, 40312), (259, 40369), (367, 40597), (377, 40642), (379, 40651), (397, 40702),

Gene: Megiddo_59 Start: 40265, Stop: 41059, Start Num: 163
Candidate Starts for Megiddo_59:
(Start: 163 @40265 has 63 MA's), (182, 40325), (Start: 184 @40337 has 2 MA's), (192, 40361), (213, 40412), (273, 40568), (294, 40610), (298, 40628), (332, 40709), (380, 40829), (382, 40832), (387, 40844), (399, 40886), (401, 40907), (403, 40916), (404, 40919), (413, 40955), (414, 40964), (430, 41009), (440, 41033),

Gene: Mendokysei_64 Start: 42338, Stop: 43075, Start Num: 169
Candidate Starts for Mendokysei_64:
(Start: 169 @42338 has 7 MA's), (174, 42356), (182, 42380), (204, 42452), (261, 42596), (318, 42728), (332, 42764), (358, 42809), (382, 42893), (387, 42905), (397, 42932),

Gene: MinionDave_66 Start: 44448, Stop: 45398, Start Num: 110

Candidate Starts for MinionDave_66:
(Start: 110 @44448 has 30 MA's), (151, 44550), (167, 44580), (173, 44601), (196, 44673), (202, 44697), (214, 44721), (223, 44751), (225, 44757), (250, 44823), (254, 44829), (268, 44877), (301, 44940), (312, 44970), (386, 45189), (390, 45195), (397, 45219), (398, 45222), (400, 45252), (403, 45264), (411, 45297), (417, 45333), (418, 45342), (424, 45354), (429, 45360), (434, 45372), (439, 45381),

Gene: Minos_47 Start: 46412, Stop: 45693, Start Num: 170
Candidate Starts for Minos_47:
(Start: 170 @46412 has 78 MA's), (189, 46346), (202, 46304), (207, 46295), (211, 46289), (245, 46205), (262, 46160), (283, 46127), (287, 46121), (318, 46046), (398, 45842),

Gene: MissDaisy_68 Start: 42544, Stop: 43389, Start Num: 116
Candidate Starts for MissDaisy_68:
(93, 42493), (Start: 116 @42544 has 22 MA's), (128, 42571), (146, 42601), (230, 42829), (233, 42841), (253, 42889), (278, 42955), (343, 43078), (367, 43129), (388, 43207), (397, 43234), (402, 43273), (431, 43372),

Gene: Mitti_71 Start: 43785, Stop: 44630, Start Num: 116
Candidate Starts for Mitti_71:
(93, 43734), (Start: 116 @43785 has 22 MA's), (128, 43812), (146, 43842), (230, 44070), (233, 44082), (253, 44130), (278, 44196), (367, 44370), (388, 44448), (397, 44475), (402, 44514),

Gene: Monty_45 Start: 44278, Stop: 43556, Start Num: 170
Candidate Starts for Monty_45:
(Start: 170 @44278 has 78 MA's), (182, 44239), (189, 44212), (207, 44161), (238, 44086), (245, 44071), (287, 43987), (318, 43912), (380, 43756), (398, 43708), (400, 43678), (424, 43576),

Gene: Moonbeam_66 Start: 43629, Stop: 44579, Start Num: 110
Candidate Starts for Moonbeam_66:
(Start: 110 @43629 has 30 MA's), (151, 43731), (167, 43761), (173, 43782), (196, 43854), (202, 43878), (214, 43902), (223, 43932), (225, 43938), (250, 44004), (254, 44010), (268, 44058), (301, 44121), (312, 44151), (323, 44169), (344, 44235), (386, 44370), (390, 44376), (397, 44400), (398, 44403), (400, 44433), (403, 44445), (411, 44478), (417, 44514), (418, 44523), (424, 44535), (429, 44541), (434, 44553), (439, 44562),

Gene: MoontowerMania_8 Start: 4709, Stop: 5452, Start Num: 163
Candidate Starts for MoontowerMania_8:
(Start: 163 @4709 has 63 MA's), (181, 4769), (182, 4772), (192, 4808), (222, 4874), (235, 4919), (241, 4937), (244, 4943), (280, 5021), (304, 5081), (317, 5105), (323, 5114), (334, 5147), (357, 5186), (363, 5195), (381, 5255), (391, 5276), (396, 5294), (397, 5297), (405, 5348), (415, 5396),

Gene: MrWormie_46 Start: 45573, Stop: 44854, Start Num: 170
Candidate Starts for MrWormie_46:
(Start: 170 @45573 has 78 MA's), (189, 45507), (202, 45465), (207, 45456), (211, 45450), (245, 45366), (262, 45321), (283, 45288), (287, 45282), (318, 45207), (398, 45003),

Gene: Msay19_51 Start: 46751, Stop: 46029, Start Num: 170
Candidate Starts for Msay19_51:
(Start: 170 @46751 has 78 MA's), (182, 46712), (189, 46685), (207, 46634), (238, 46559), (245, 46544), (287, 46460), (318, 46385), (380, 46229), (398, 46181), (400, 46151), (424, 46049),

Gene: Mulch_66 Start: 42588, Stop: 43298, Start Num: 164

Candidate Starts for Mulch_66:
(71, 42354), (118, 42483), (Start: 164 @42588 has 36 MA's), (172, 42615), (192, 42681), (294, 42906), (303, 42939), (327, 42993), (361, 43050), (380, 43101), (382, 43104), (400, 43179),

Gene: Nadeem_66 Start: 42576, Stop: 43286, Start Num: 164
Candidate Starts for Nadeem_66:
(71, 42342), (118, 42471), (Start: 164 @42576 has 36 MA's), (172, 42603), (192, 42669), (294, 42894), (303, 42927), (327, 42981), (361, 43038), (380, 43089), (382, 43092), (400, 43167),

Gene: Nairb_58 Start: 41222, Stop: 41959, Start Num: 169
Candidate Starts for Nairb_58:
(102, 41063), (106, 41069), (Start: 169 @41222 has 7 MA's), (182, 41264), (204, 41336), (215, 41354), (261, 41480), (266, 41498), (318, 41612), (332, 41648), (358, 41693), (382, 41777), (385, 41786), (387, 41789), (393, 41798), (397, 41816), (423, 41948),

Gene: NancyRae_65 Start: 42526, Stop: 43239, Start Num: 164
Candidate Starts for NancyRae_65:
(71, 42292), (118, 42421), (Start: 164 @42526 has 36 MA's), (172, 42553), (192, 42619), (294, 42844), (303, 42877), (327, 42931), (361, 42988), (380, 43039), (382, 43042), (400, 43117),

Gene: Natkenzie_89 Start: 59142, Stop: 59831, Start Num: 163
Candidate Starts for Natkenzie_89:
(43, 58827), (109, 59016), (125, 59061), (137, 59085), (Start: 163 @59142 has 63 MA's), (191, 59223), (212, 59274), (262, 59400), (284, 59439), (320, 59517), (325, 59529), (335, 59550), (359, 59586), (389, 59667),

Gene: Neoevie_46 Start: 46675, Stop: 45956, Start Num: 170
Candidate Starts for Neoevie_46:
(Start: 170 @46675 has 78 MA's), (189, 46609), (207, 46558), (211, 46552), (245, 46468), (262, 46423), (287, 46384), (318, 46309), (398, 46105),

Gene: Newt_47 Start: 46903, Stop: 46184, Start Num: 170
Candidate Starts for Newt_47:
(Start: 170 @46903 has 78 MA's), (189, 46837), (202, 46795), (207, 46786), (211, 46780), (245, 46696), (262, 46651), (283, 46618), (287, 46612), (318, 46537), (398, 46333),

Gene: Niagara_42 Start: 45629, Stop: 44913, Start Num: 170
Candidate Starts for Niagara_42:
(Start: 170 @45629 has 78 MA's), (174, 45614), (207, 45512), (245, 45422), (249, 45416), (318, 45263), (351, 45200), (361, 45170), (417, 44948),

Gene: Nimbo_66 Start: 45014, Stop: 45682, Start Num: 152
Candidate Starts for Nimbo_66:
(Start: 152 @45014 has 16 MA's), (172, 45053), (191, 45107), (200, 45134), (237, 45194), (282, 45284), (290, 45296), (301, 45329), (382, 45494), (395, 45527), (400, 45563), (421, 45653),

Gene: Nimi13_46 Start: 46421, Stop: 45702, Start Num: 170
Candidate Starts for Nimi13_46:
(Start: 170 @46421 has 78 MA's), (189, 46355), (202, 46313), (207, 46304), (211, 46298), (245, 46214), (262, 46169), (283, 46136), (287, 46130), (318, 46055), (398, 45851),

Gene: Nolwazi_73 Start: 43776, Stop: 44621, Start Num: 116
Candidate Starts for Nolwazi_73:

(93, 43725), (Start: 116 @43776 has 22 MA's), (128, 43803), (146, 43833), (230, 44061), (233, 44073), (253, 44121), (278, 44187), (367, 44361), (388, 44439), (397, 44466), (402, 44505),

Gene: NormanBulbieJr_67 Start: 44088, Stop: 45038, Start Num: 110
Candidate Starts for NormanBulbieJr_67:
(Start: 110 @44088 has 30 MA's), (151, 44190), (167, 44220), (173, 44241), (196, 44313), (202, 44337), (214, 44361), (223, 44391), (225, 44397), (250, 44463), (254, 44469), (268, 44517), (301, 44580), (312, 44610), (386, 44829), (390, 44835), (397, 44859), (398, 44862), (400, 44892), (403, 44904), (411, 44937), (417, 44973), (418, 44982), (424, 44994), (429, 45000), (434, 45012), (439, 45021),

Gene: OBUpride_67 Start: 44912, Stop: 45574, Start Num: 163
Candidate Starts for OBUpride_67:
(38, 44570), (63, 44651), (77, 44696), (82, 44720), (104, 44771), (126, 44825), (Start: 155 @44900 has 8 MA's), (157, 44903), (Start: 163 @44912 has 63 MA's), (172, 44939), (253, 45113), (288, 45191), (292, 45197), (299, 45221), (305, 45230), (325, 45272), (369, 45356), (373, 45359), (382, 45392), (384, 45398), (386, 45404), (401, 45467), (410, 45503), (415, 45530), (417, 45545), (421, 45554),

Gene: Ogopogo_78 Start: 45456, Stop: 46199, Start Num: 117
Candidate Starts for Ogopogo_78:
(Start: 117 @45456 has 1 MA's), (Start: 120 @45465 has 3 MA's), (133, 45492), (Start: 155 @45537 has 8 MA's), (172, 45570), (191, 45624), (200, 45651), (237, 45711), (282, 45801), (290, 45813), (301, 45846), (382, 46011), (395, 46044), (400, 46080), (421, 46170),

Gene: Ogopogo_72 Start: 43150, Stop: 43812, Start Num: 163
Candidate Starts for Ogopogo_72:
(112, 43036), (Start: 163 @43150 has 63 MA's), (172, 43177), (191, 43231), (318, 43483), (382, 43624), (395, 43657), (421, 43783),

Gene: Oksu_72 Start: 45599, Stop: 46261, Start Num: 162
Candidate Starts for Oksu_72:
(32, 45245), (135, 45542), (Start: 162 @45599 has 2 MA's), (172, 45626), (191, 45680), (194, 45686), (200, 45707), (203, 45716), (216, 45725), (300, 45911), (308, 45926), (353, 45998), (356, 46007), (358, 46013), (362, 46019), (380, 46070), (382, 46073), (410, 46181), (421, 46232),

Gene: OldBen_71 Start: 46406, Stop: 47074, Start Num: 152
Candidate Starts for OldBen_71:
(Start: 152 @46406 has 16 MA's), (172, 46445), (191, 46499), (200, 46526), (237, 46586), (282, 46676), (290, 46688), (301, 46721), (382, 46886), (395, 46919), (400, 46955), (421, 47045),

Gene: OmniCritical_70 Start: 43718, Stop: 44563, Start Num: 116
Candidate Starts for OmniCritical_70:
(Start: 116 @43718 has 22 MA's), (128, 43745), (146, 43775), (230, 44003), (233, 44015), (253, 44063), (278, 44129), (367, 44303), (388, 44381), (397, 44408), (402, 44447),

Gene: PFR1_39 Start: 29215, Stop: 30003, Start Num: 164
Candidate Starts for PFR1_39:
(17, 28762), (20, 28789), (59, 28948), (Start: 163 @29212 has 63 MA's), (Start: 164 @29215 has 36 MA's), (172, 29242), (182, 29272), (Start: 184 @29284 has 2 MA's), (202, 29341), (204, 29344), (219, 29371), (268, 29515), (294, 29563), (298, 29581), (302, 29593), (332, 29662), (352, 29683), (369, 29722), (382, 29779), (399, 29833), (411, 29896), (412, 29899), (415, 29917),

Gene: PFR2_41 Start: 30784, Stop: 31572, Start Num: 164

Candidate Starts for PFR2_41:
(17, 30331), (20, 30358), (59, 30517), (Start: 163 @30781 has 63 MA's), (Start: 164 @30784 has 36 MA's), (172, 30811), (182, 30841), (Start: 184 @30853 has 2 MA's), (202, 30910), (204, 30913), (219, 30940), (268, 31084), (294, 31132), (298, 31150), (302, 31162), (332, 31231), (352, 31252), (369, 31291), (382, 31348), (399, 31402), (411, 31465), (412, 31468), (415, 31486),

Gene: PHappiness_74 Start: 47235, Stop: 47903, Start Num: 152
Candidate Starts for PHappiness_74:
(Start: 152 @47235 has 16 MA's), (172, 47274), (191, 47328), (200, 47355), (237, 47415), (282, 47505), (290, 47517), (301, 47550), (382, 47715), (395, 47748), (400, 47784), (421, 47874),

Gene: PSullivan_67 Start: 42452, Stop: 41586, Start Num: 65
Candidate Starts for PSullivan_67:
(56, 42479), (61, 42458), (Start: 65 @42452 has 7 MA's), (Start: 79 @42395 has 1 MA's), (83, 42392), (98, 42362), (Start: 101 @42353 has 3 MA's), (151, 42233), (233, 42125), (259, 42056), (295, 41981), (377, 41795), (386, 41765), (423, 41606),

Gene: PaintedDog_64 Start: 41494, Stop: 42366, Start Num: 120
Candidate Starts for PaintedDog_64:
(78, 41401), (86, 41428), (89, 41434), (Start: 120 @41494 has 3 MA's), (136, 41524), (188, 41683), (190, 41692), (201, 41713), (259, 41866), (278, 41911), (347, 42049), (367, 42100), (377, 42145), (378, 42148), (397, 42205),

Gene: Parada_66 Start: 42588, Stop: 43298, Start Num: 164
Candidate Starts for Parada_66:
(71, 42354), (118, 42483), (Start: 164 @42588 has 36 MA's), (172, 42615), (192, 42681), (294, 42906), (303, 42939), (327, 42993), (361, 43050), (380, 43101), (382, 43104), (400, 43179),

Gene: Paries_10 Start: 4991, Stop: 5734, Start Num: 163
Candidate Starts for Paries_10:
(Start: 163 @4991 has 63 MA's), (181, 5051), (182, 5054), (192, 5090), (222, 5156), (235, 5201), (241, 5219), (244, 5225), (280, 5303), (304, 5363), (317, 5387), (323, 5396), (334, 5429), (357, 5468), (363, 5477), (381, 5537), (391, 5558), (396, 5576), (397, 5579), (405, 5630), (415, 5678),

Gene: Patt_67 Start: 42268, Stop: 43113, Start Num: 116
Candidate Starts for Patt_67:
(93, 42217), (Start: 116 @42268 has 22 MA's), (128, 42295), (146, 42325), (230, 42553), (233, 42565), (253, 42613), (278, 42679), (367, 42853), (388, 42931), (397, 42958), (402, 42997), (411, 43036), (431, 43096),

Gene: PattyP_61 Start: 41484, Stop: 40504, Start Num: 33
Candidate Starts for PattyP_61:
(Start: 33 @41484 has 5 MA's), (57, 41406), (66, 41376), (Start: 184 @41055 has 2 MA's), (198, 41013), (226, 40959), (232, 40938), (233, 40929), (243, 40893), (353, 40782), (377, 40698), (379, 40689), (382, 40680), (392, 40659), (396, 40641), (400, 40605),

Gene: Payneful_66 Start: 43153, Stop: 42311, Start Num: 73
Candidate Starts for Payneful_66:
(Start: 60 @43189 has 1 MA's), (Start: 67 @43174 has 6 MA's), (Start: 73 @43153 has 4 MA's), (Start: 79 @43123 has 1 MA's), (83, 43120), (98, 43090), (Start: 101 @43081 has 3 MA's), (151, 42961), (233, 42853), (259, 42784), (295, 42709), (377, 42523), (386, 42493), (423, 42334),

Gene: Peridot_65 Start: 42071, Stop: 42994, Start Num: 74

Candidate Starts for Peridot_65:
(Start: 74 @42071 has 17 MA's), (Start: 79 @42098 has 1 MA's), (Start: 101 @42140 has 3 MA's), (150, 42257), (Start: 155 @42266 has 8 MA's), (165, 42287), (195, 42353), (233, 42389), (236, 42401), (259, 42458), (278, 42503), (281, 42509), (367, 42734), (368, 42737),

Gene: Petra_69 Start: 42660, Stop: 43718, Start Num: 75
Candidate Starts for Petra_69:
(1, 41811), (11, 42207), (15, 42426), (16, 42438), (22, 42486), (34, 42534), (Start: 75 @42660 has 13 MA's), (115, 42756), (140, 42813), (150, 42846), (165, 42876), (195, 42990), (228, 43080), (250, 43143), (259, 43167), (267, 43191), (278, 43212), (281, 43218), (333, 43317), (378, 43506), (380, 43518),

Gene: Phalconet_64 Start: 40982, Stop: 41998, Start Num: 74
Candidate Starts for Phalconet_64:
(Start: 74 @40982 has 17 MA's), (Start: 79 @41009 has 1 MA's), (Start: 101 @41051 has 3 MA's), (115, 41078), (150, 41168), (Start: 155 @41177 has 8 MA's), (Start: 163 @41189 has 63 MA's), (165, 41198), (185, 41258), (221, 41354), (233, 41390), (236, 41402), (259, 41459), (278, 41504), (281, 41510), (367, 41735), (377, 41780), (397, 41840),

Gene: PhesterPhotato_76 Start: 45973, Stop: 46719, Start Num: 153
Candidate Starts for PhesterPhotato_76:
(Start: 153 @45973 has 1 MA's), (172, 46012), (183, 46045), (Start: 184 @46054 has 2 MA's), (222, 46144), (235, 46189), (246, 46216), (251, 46222), (270, 46270), (280, 46291), (304, 46351), (317, 46375), (332, 46411), (334, 46417), (354, 46444), (371, 46483), (397, 46567), (420, 46690),

Gene: Philon9_45 Start: 46927, Stop: 46214, Start Num: 170
Candidate Starts for Philon9_45:
(76, 47170), (Start: 170 @46927 has 78 MA's), (174, 46912), (207, 46810), (245, 46720), (318, 46561), (351, 46498), (361, 46468), (398, 46357), (400, 46327), (417, 46246),

Gene: PhorbesPhlower_52 Start: 33687, Stop: 34304, Start Num: 163
Candidate Starts for PhorbesPhlower_52:
(Start: 163 @33687 has 63 MA's), (183, 33747), (191, 33771), (235, 33840), (258, 33888), (285, 33921), (322, 33990), (325, 33999), (379, 34104), (382, 34113), (421, 34278),

Gene: PierreThree_46 Start: 45620, Stop: 44898, Start Num: 170
Candidate Starts for PierreThree_46:
(Start: 170 @45620 has 78 MA's), (182, 45581), (189, 45554), (207, 45503), (238, 45428), (245, 45413), (287, 45329), (318, 45254), (380, 45098), (398, 45050), (400, 45020), (424, 44918),

Gene: Pimento_69 Start: 42707, Stop: 43417, Start Num: 164
Candidate Starts for Pimento_69:
(71, 42473), (118, 42602), (Start: 164 @42707 has 36 MA's), (172, 42734), (192, 42800), (294, 43025), (303, 43058), (327, 43112), (361, 43169), (380, 43220), (382, 43223), (396, 43262), (400, 43298),

Gene: PinkCoffee_61 Start: 44274, Stop: 45227, Start Num: 75
Candidate Starts for PinkCoffee_61:
(Start: 75 @44274 has 13 MA's), (115, 44370), (150, 44460), (250, 44727), (259, 44751), (278, 44796), (281, 44802), (333, 44901), (378, 45012), (396, 45066),

Gene: Pippy_66 Start: 43387, Stop: 44337, Start Num: 110
Candidate Starts for Pippy_66:

(Start: 110 @43387 has 30 MA's), (151, 43489), (167, 43519), (173, 43540), (196, 43612), (202, 43636), (214, 43660), (223, 43690), (225, 43696), (250, 43762), (254, 43768), (268, 43816), (301, 43879), (312, 43909), (386, 44128), (390, 44134), (397, 44158), (398, 44161), (400, 44191), (403, 44203), (411, 44236), (417, 44272), (418, 44281), (424, 44293), (429, 44299), (434, 44311), (439, 44320), (441, 44329),

Gene: Pita2_70 Start: 43949, Stop: 43083, Start Num: 65
Candidate Starts for Pita2_70:
(56, 43976), (61, 43955), (Start: 65 @43949 has 7 MA's), (Start: 79 @43892 has 1 MA's), (83, 43889), (98, 43859), (Start: 101 @43850 has 3 MA's), (151, 43730), (233, 43622), (259, 43553), (295, 43478), (377, 43292), (386, 43262), (423, 43103),

Gene: Poenanya_77 Start: 47104, Stop: 47772, Start Num: 152
Candidate Starts for Poenanya_77:
(Start: 152 @47104 has 16 MA's), (172, 47143), (191, 47197), (200, 47224), (237, 47284), (282, 47374), (290, 47386), (301, 47419), (382, 47584), (395, 47617), (400, 47653), (421, 47743),

Gene: PokyPuppy_45 Start: 45563, Stop: 44841, Start Num: 170
Candidate Starts for PokyPuppy_45:
(Start: 170 @45563 has 78 MA's), (182, 45524), (199, 45464), (207, 45446), (238, 45371), (245, 45356), (287, 45272), (318, 45197), (380, 45041), (398, 44993), (400, 44963), (424, 44861),

Gene: Poland_51 Start: 46730, Stop: 46008, Start Num: 170
Candidate Starts for Poland_51:
(Start: 170 @46730 has 78 MA's), (182, 46691), (189, 46664), (207, 46613), (238, 46538), (245, 46523), (287, 46439), (318, 46364), (380, 46208), (398, 46160), (400, 46130), (424, 46028),

Gene: Polka14_78 Start: 47894, Stop: 48562, Start Num: 152
Candidate Starts for Polka14_78:
(Start: 152 @47894 has 16 MA's), (172, 47933), (191, 47987), (200, 48014), (237, 48074), (282, 48164), (290, 48176), (301, 48209), (382, 48374), (395, 48407), (400, 48443), (421, 48533),

Gene: Polkaroo_62 Start: 41192, Stop: 41851, Start Num: 157
Candidate Starts for Polkaroo_62:
(Start: 117 @41102 has 1 MA's), (Start: 120 @41111 has 3 MA's), (157, 41192), (172, 41222), (191, 41276), (200, 41303), (237, 41363), (282, 41453), (290, 41465), (301, 41498), (308, 41513), (382, 41663), (395, 41696), (400, 41732), (421, 41822),

Gene: Polkaroo_59 Start: 38517, Stop: 39569, Start Num: 74
Candidate Starts for Polkaroo_59:
(Start: 74 @38517 has 17 MA's), (Start: 79 @38544 has 1 MA's), (84, 38550), (Start: 101 @38586 has 3 MA's), (Start: 153 @38709 has 1 MA's), (Start: 155 @38712 has 8 MA's), (165, 38733), (212, 38886), (221, 38910), (225, 38928), (378, 39351), (397, 39408), (435, 39561),

Gene: PopTart_60 Start: 40607, Stop: 41515, Start Num: 74
Candidate Starts for PopTart_60:
(Start: 74 @40607 has 17 MA's), (Start: 79 @40634 has 1 MA's), (Start: 101 @40676 has 3 MA's), (115, 40703), (150, 40793), (Start: 155 @40802 has 8 MA's), (165, 40823), (259, 40976), (278, 41021), (281, 41027), (316, 41090), (367, 41252), (377, 41297), (397, 41357),

Gene: Priscilla_67 Start: 44187, Stop: 45137, Start Num: 110
Candidate Starts for Priscilla_67:

(Start: 110 @44187 has 30 MA's), (151, 44289), (167, 44319), (173, 44340), (196, 44412), (202, 44436), (214, 44460), (223, 44490), (225, 44496), (250, 44562), (254, 44568), (268, 44616), (301, 44679), (312, 44709), (386, 44928), (390, 44934), (397, 44958), (398, 44961), (400, 44991), (403, 45003), (411, 45036), (417, 45072), (418, 45081), (424, 45093), (429, 45099), (434, 45111), (439, 45120),

Gene: PullumCavea_58 Start: 44450, Stop: 45406, Start Num: 75
Candidate Starts for PullumCavea_58:
(36, 44324), (54, 44390), (Start: 75 @44450 has 13 MA's), (115, 44546), (150, 44636), (250, 44906), (259, 44930), (278, 44975), (281, 44981), (333, 45080), (378, 45191), (396, 45245),

Gene: Qhanda_73 Start: 43646, Stop: 44491, Start Num: 116
Candidate Starts for Qhanda_73:
(93, 43595), (Start: 116 @43646 has 22 MA's), (128, 43673), (146, 43703), (148, 43715), (156, 43730), (230, 43931), (233, 43943), (278, 44057), (367, 44231), (388, 44309), (397, 44336), (402, 44375), (411, 44414),

Gene: QueenHazel_55 Start: 38490, Stop: 39401, Start Num: 74
Candidate Starts for QueenHazel_55:
(Start: 74 @38490 has 17 MA's), (Start: 79 @38517 has 1 MA's), (84, 38523), (Start: 101 @38559 has 3 MA's), (150, 38676), (Start: 163 @38697 has 63 MA's), (165, 38706), (167, 38709), (206, 38772), (233, 38808), (236, 38820), (242, 38841), (278, 38922), (355, 39108), (367, 39138), (397, 39243),

Gene: Ramsey_66 Start: 43916, Stop: 44866, Start Num: 110
Candidate Starts for Ramsey_66:
(Start: 110 @43916 has 30 MA's), (151, 44018), (167, 44048), (173, 44069), (196, 44141), (202, 44165), (214, 44189), (223, 44219), (225, 44225), (250, 44291), (254, 44297), (268, 44345), (301, 44408), (312, 44438), (386, 44657), (390, 44663), (397, 44687), (398, 44690), (400, 44720), (403, 44732), (411, 44765), (417, 44801), (418, 44810), (424, 44822), (429, 44828), (434, 44840), (439, 44849),

Gene: Rem711_72 Start: 44535, Stop: 45203, Start Num: 163
Candidate Starts for Rem711_72:
(19, 44103), (37, 44193), (51, 44235), (52, 44241), (57, 44256), (92, 44367), (142, 44487), (Start: 163 @44535 has 63 MA's), (172, 44562), (191, 44616), (324, 44898), (368, 44967), (410, 45120),

Gene: RemRem_47 Start: 44268, Stop: 43546, Start Num: 170
Candidate Starts for RemRem_47:
(Start: 170 @44268 has 78 MA's), (182, 44229), (189, 44202), (207, 44151), (238, 44076), (245, 44061), (287, 43977), (318, 43902), (380, 43746), (398, 43698), (400, 43668), (424, 43566),

Gene: Reptar3000_68 Start: 42257, Stop: 43102, Start Num: 116
Candidate Starts for Reptar3000_68:
(93, 42206), (Start: 116 @42257 has 22 MA's), (128, 42284), (146, 42314), (230, 42542), (233, 42554), (253, 42602), (278, 42668), (367, 42842), (388, 42920), (397, 42947), (402, 42986),

Gene: Rhynn_57 Start: 39880, Stop: 38906, Start Num: 33
Candidate Starts for Rhynn_57:
(Start: 33 @39880 has 5 MA's), (66, 39772), (87, 39727), (Start: 155 @39643 has 8 MA's), (198, 39520), (226, 39466), (233, 39436), (243, 39400), (313, 39241), (314, 39238), (353, 39184), (382, 39082), (397, 39040), (400, 39007),

Gene: Rialto_71 Start: 44794, Stop: 45717, Start Num: 74

Candidate Starts for Rialto_71:
(Start: 74 @44794 has 17 MA's), (Start: 79 @44821 has 1 MA's), (Start: 101 @44863 has 3 MA's), (150, 44980), (Start: 155 @44989 has 8 MA's), (165, 45010), (195, 45076), (233, 45112), (236, 45124), (259, 45181), (278, 45226), (281, 45232), (367, 45457), (368, 45460),

Gene: RitaG_74 Start: 47037, Stop: 47705, Start Num: 152
Candidate Starts for RitaG_74:
(Start: 152 @47037 has 16 MA's), (172, 47076), (191, 47130), (200, 47157), (237, 47217), (282, 47307), (290, 47319), (301, 47352), (382, 47517), (395, 47550), (400, 47586), (421, 47676),

Gene: Rofo_85 Start: 57833, Stop: 58579, Start Num: 164
Candidate Starts for Rofo_85:
(134, 57758), (143, 57782), (Start: 164 @57833 has 36 MA's), (178, 57881), (182, 57890), (Start: 184 @57902 has 2 MA's), (256, 58100), (260, 58115), (289, 58175), (293, 58181), (294, 58184), (297, 58196), (298, 58202), (303, 58217), (361, 58328), (397, 58442), (403, 58487), (411, 58520), (416, 58547), (422, 58568),

Gene: RogerDodger_62 Start: 44572, Stop: 45528, Start Num: 75
Candidate Starts for RogerDodger_62:
(36, 44446), (Start: 75 @44572 has 13 MA's), (115, 44668), (150, 44758), (250, 45028), (259, 45052), (278, 45097), (281, 45103), (333, 45202), (378, 45313), (396, 45367),

Gene: RonRayGun_60 Start: 41425, Stop: 42162, Start Num: 169
Candidate Starts for RonRayGun_60:
(24, 41008), (102, 41266), (106, 41272), (Start: 169 @41425 has 7 MA's), (182, 41467), (204, 41539), (215, 41557), (261, 41683), (266, 41701), (318, 41815), (332, 41851), (358, 41896), (382, 41980), (385, 41989), (387, 41992), (393, 42001), (397, 42019), (423, 42151),

Gene: RoyalG_47 Start: 45104, Stop: 44382, Start Num: 170
Candidate Starts for RoyalG_47:
(Start: 170 @45104 has 78 MA's), (182, 45065), (207, 44987), (238, 44912), (245, 44897), (287, 44813), (318, 44738), (398, 44534), (400, 44504), (424, 44402),

Gene: Ruthiejr_72 Start: 43729, Stop: 44574, Start Num: 116
Candidate Starts for Ruthiejr_72:
(Start: 116 @43729 has 22 MA's), (128, 43756), (146, 43786), (230, 44014), (233, 44026), (253, 44074), (278, 44140), (367, 44314), (388, 44392), (397, 44419), (402, 44458),

Gene: SG4_77 Start: 47569, Stop: 48366, Start Num: 161
Candidate Starts for SG4_77:
(Start: 159 @47566 has 4 MA's), (Start: 161 @47569 has 1 MA's), (172, 47602), (183, 47635), (Start: 184 @47644 has 2 MA's), (199, 47692), (218, 47725), (237, 47794), (266, 47866), (279, 47890), (287, 47905), (366, 48076), (374, 48112), (394, 48178), (397, 48184), (416, 48289), (421, 48307),

Gene: Sam12_46 Start: 44268, Stop: 43546, Start Num: 170
Candidate Starts for Sam12_46:
(Start: 170 @44268 has 78 MA's), (182, 44229), (189, 44202), (207, 44151), (238, 44076), (245, 44061), (287, 43977), (318, 43902), (380, 43746), (398, 43698), (400, 43668), (424, 43566),

Gene: SamScheppers_69 Start: 44109, Stop: 44954, Start Num: 116
Candidate Starts for SamScheppers_69:
(93, 44058), (Start: 116 @44109 has 22 MA's), (128, 44136), (146, 44166), (230, 44394), (233, 44406), (253, 44454), (278, 44520), (367, 44694), (388, 44772), (397, 44799), (402, 44838),

Gene: Sampson_91 Start: 59293, Stop: 59982, Start Num: 163
Candidate Starts for Sampson_91:
(43, 58978), (109, 59167), (125, 59212), (137, 59236), (Start: 163 @59293 has 63 MA's), (191, 59374), (212, 59425), (262, 59551), (284, 59590), (320, 59668), (325, 59680), (335, 59701), (359, 59737), (389, 59818),

Gene: Sanjuju_83 Start: 58188, Stop: 58886, Start Num: 164
Candidate Starts for Sanjuju_83:
(8, 57441), (29, 57810), (47, 57876), (134, 58113), (143, 58137), (Start: 164 @58188 has 36 MA's), (174, 58221), (178, 58236), (Start: 184 @58257 has 2 MA's), (231, 58365), (256, 58425), (293, 58506), (297, 58521), (303, 58542), (372, 58674), (382, 58707), (397, 58749), (403, 58794), (411, 58827), (416, 58854), (422, 58875),

Gene: Sassafras_75 Start: 45926, Stop: 46594, Start Num: 152
Candidate Starts for Sassafras_75:
(Start: 152 @45926 has 16 MA's), (172, 45965), (191, 46019), (200, 46046), (237, 46106), (282, 46196), (290, 46208), (301, 46241), (382, 46406), (395, 46439), (400, 46475), (421, 46565),

Gene: SassyB_60 Start: 40607, Stop: 41515, Start Num: 74
Candidate Starts for SassyB_60:
(Start: 74 @40607 has 17 MA's), (Start: 79 @40634 has 1 MA's), (Start: 101 @40676 has 3 MA's), (115, 40703), (150, 40793), (Start: 155 @40802 has 8 MA's), (165, 40823), (259, 40976), (278, 41021), (281, 41027), (316, 41090), (367, 41252), (377, 41297), (397, 41357),

Gene: Scioto_90 Start: 59143, Stop: 59832, Start Num: 163
Candidate Starts for Scioto_90:
(43, 58828), (109, 59017), (125, 59062), (137, 59086), (Start: 163 @59143 has 63 MA's), (191, 59224), (212, 59275), (262, 59401), (284, 59440), (320, 59518), (325, 59530), (335, 59551), (359, 59587), (389, 59668),

Gene: Scottish_72 Start: 45585, Stop: 46253, Start Num: 152
Candidate Starts for Scottish_72:
(Start: 152 @45585 has 16 MA's), (172, 45624), (191, 45678), (200, 45705), (237, 45765), (282, 45855), (290, 45867), (301, 45900), (382, 46065), (395, 46098), (400, 46134), (421, 46224),

Gene: Sedona_83 Start: 58685, Stop: 59383, Start Num: 164
Candidate Starts for Sedona_83:
(8, 57938), (29, 58307), (47, 58373), (134, 58610), (143, 58634), (Start: 164 @58685 has 36 MA's), (178, 58733), (182, 58742), (Start: 184 @58754 has 2 MA's), (231, 58862), (256, 58922), (293, 59003), (297, 59018), (303, 59039), (372, 59171), (382, 59204), (397, 59246), (403, 59291), (411, 59324), (416, 59351), (422, 59372),

Gene: SharkTale_63 Start: 46750, Stop: 47724, Start Num: 101
Candidate Starts for SharkTale_63:
(Start: 101 @46750 has 3 MA's), (129, 46810), (Start: 155 @46870 has 8 MA's), (241, 47122), (346, 47410), (403, 47593), (417, 47662), (424, 47683),

Gene: Shelley_46 Start: 45897, Stop: 45178, Start Num: 170
Candidate Starts for Shelley_46:
(Start: 170 @45897 has 78 MA's), (189, 45831), (202, 45789), (207, 45780), (211, 45774), (245, 45690), (262, 45645), (283, 45612), (287, 45606), (318, 45531), (398, 45327),

Gene: ShowerHandel_70 Start: 44059, Stop: 45009, Start Num: 110
Candidate Starts for ShowerHandel_70:
(Start: 110 @44059 has 30 MA's), (151, 44161), (167, 44191), (173, 44212), (196, 44284), (202, 44308), (214, 44332), (223, 44362), (225, 44368), (250, 44434), (254, 44440), (268, 44488), (301, 44551), (312, 44581), (386, 44800), (390, 44806), (397, 44830), (398, 44833), (400, 44863), (403, 44875), (411, 44908), (417, 44944), (418, 44953), (424, 44965), (429, 44971), (434, 44983), (439, 44992), (441, 45001),

Gene: Sidious_65 Start: 45678, Stop: 46337, Start Num: 160
Candidate Starts for Sidious_65:
(Start: 160 @45678 has 7 MA's), (191, 45762), (248, 45873), (262, 45903), (300, 45981), (308, 45996), (360, 46086), (365, 46095), (421, 46308),

Gene: Sidious_64 Start: 44887, Stop: 45681, Start Num: 163
Candidate Starts for Sidious_64:
(157, 44884), (Start: 163 @44887 has 63 MA's), (202, 45019), (204, 45022), (219, 45049), (259, 45166), (332, 45340), (352, 45361), (382, 45457), (401, 45532), (411, 45574),

Gene: SimranZ1_67 Start: 43613, Stop: 44584, Start Num: 74
Candidate Starts for SimranZ1_67:
(23, 43436), (26, 43442), (27, 43451), (30, 43460), (39, 43499), (Start: 74 @43613 has 17 MA's), (111, 43697), (115, 43709), (150, 43799), (Start: 163 @43820 has 63 MA's), (165, 43829), (167, 43832), (185, 43889), (221, 43985), (233, 44021), (236, 44033), (253, 44069), (259, 44090), (267, 44114), (281, 44141), (342, 44249), (367, 44324),

Gene: Sitar_84 Start: 58707, Stop: 59453, Start Num: 164
Candidate Starts for Sitar_84:
(14, 58224), (47, 58395), (134, 58632), (143, 58656), (Start: 164 @58707 has 36 MA's), (178, 58755), (182, 58764), (Start: 184 @58776 has 2 MA's), (256, 58974), (260, 58989), (289, 59049), (293, 59055), (294, 59058), (297, 59070), (298, 59076), (303, 59091), (361, 59202), (397, 59316), (403, 59361), (411, 59394), (416, 59421), (422, 59442),

Gene: Slarp_71 Start: 43637, Stop: 44482, Start Num: 116
Candidate Starts for Slarp_71:
(93, 43586), (Start: 116 @43637 has 22 MA's), (128, 43664), (146, 43694), (230, 43922), (233, 43934), (253, 43982), (278, 44048), (367, 44222), (388, 44300), (397, 44327), (402, 44366),

Gene: Slim_68 Start: 43412, Stop: 44335, Start Num: 74
Candidate Starts for Slim_68:
(Start: 74 @43412 has 17 MA's), (Start: 79 @43439 has 1 MA's), (Start: 101 @43481 has 3 MA's), (150, 43598), (Start: 155 @43607 has 8 MA's), (165, 43628), (195, 43694), (233, 43730), (236, 43742), (259, 43799), (278, 43844), (281, 43850), (367, 44075), (368, 44078),

Gene: Smooch_24 Start: 10992, Stop: 11792, Start Num: 159
Candidate Starts for Smooch_24:
(Start: 159 @10992 has 4 MA's), (Start: 161 @10995 has 1 MA's), (172, 11028), (183, 11061), (Start: 184 @11070 has 2 MA's), (199, 11118), (218, 11151), (237, 11220), (266, 11292), (279, 11316), (287, 11331), (366, 11502), (374, 11538), (394, 11604), (397, 11610), (416, 11715), (421, 11733), (438, 11763),

Gene: Sombrero_47 Start: 44639, Stop: 43917, Start Num: 170
Candidate Starts for Sombrero_47:

(Start: 170 @44639 has 78 MA's), (182, 44600), (189, 44573), (199, 44540), (207, 44522), (238, 44447), (245, 44432), (287, 44348), (318, 44273), (397, 44072), (398, 44069), (424, 43937),

Gene: Spikelee_74 Start: 45764, Stop: 46714, Start Num: 110
Candidate Starts for Spikelee_74:
(Start: 110 @45764 has 30 MA's), (151, 45866), (167, 45896), (173, 45917), (196, 45989), (202, 46013), (214, 46037), (223, 46067), (225, 46073), (250, 46139), (254, 46145), (268, 46193), (301, 46256), (312, 46286), (386, 46505), (390, 46511), (397, 46535), (398, 46538), (400, 46568), (403, 46580), (411, 46613), (417, 46649), (418, 46658), (424, 46670), (429, 46676), (434, 46688), (439, 46697),

Gene: Spooky_73 Start: 43405, Stop: 44088, Start Num: 184
Candidate Starts for Spooky_73:
(166, 43345), (Start: 184 @43405 has 2 MA's), (210, 43474), (240, 43576), (253, 43597), (262, 43633), (293, 43693), (296, 43705), (304, 43729), (309, 43738), (340, 43810), (362, 43846), (364, 43849), (392, 43927), (407, 44008), (425, 44080),

Gene: Squibbles_46 Start: 45131, Stop: 44409, Start Num: 170
Candidate Starts for Squibbles_46:
(Start: 170 @45131 has 78 MA's), (182, 45092), (189, 45065), (207, 45014), (238, 44939), (245, 44924), (287, 44840), (318, 44765), (380, 44609), (398, 44561), (400, 44531), (424, 44429),

Gene: Squiddly_65 Start: 43028, Stop: 43984, Start Num: 101
Candidate Starts for Squiddly_65:
(Start: 101 @43028 has 3 MA's), (129, 43088), (Start: 155 @43148 has 8 MA's), (173, 43193), (196, 43265), (214, 43313), (225, 43349), (250, 43415), (254, 43421), (310, 43559), (346, 43673), (390, 43787), (403, 43856), (424, 43946), (427, 43949), (441, 43976),

Gene: StAnnes_64 Start: 42680, Stop: 43636, Start Num: 74
Candidate Starts for StAnnes_64:
(Start: 74 @42680 has 17 MA's), (Start: 79 @42707 has 1 MA's), (84, 42713), (Start: 101 @42749 has 3 MA's), (150, 42866), (167, 42899), (197, 42977), (205, 43001), (221, 43037), (225, 43052), (233, 43073), (236, 43085), (259, 43142), (278, 43187), (316, 43250), (331, 43271), (367, 43373), (397, 43478),

Gene: SteveFrench_46 Start: 45344, Stop: 44622, Start Num: 170
Candidate Starts for SteveFrench_46:
(Start: 170 @45344 has 78 MA's), (182, 45305), (207, 45227), (238, 45152), (245, 45137), (287, 45053), (318, 44978), (398, 44774), (400, 44744), (424, 44642),

Gene: StevieRay_65 Start: 41652, Stop: 42314, Start Num: 155
Candidate Starts for StevieRay_65:
(Start: 155 @41652 has 8 MA's), (172, 41685), (191, 41739), (200, 41766), (237, 41826), (282, 41916), (290, 41928), (301, 41961), (382, 42126), (395, 42159), (400, 42195), (421, 42285),

Gene: Sticker17_46 Start: 46412, Stop: 45693, Start Num: 170
Candidate Starts for Sticker17_46:
(Start: 170 @46412 has 78 MA's), (189, 46346), (207, 46295), (211, 46289), (245, 46205), (262, 46160), (287, 46121), (318, 46046), (323, 46037), (398, 45842),

Gene: Stultus_80 Start: 56979, Stop: 57725, Start Num: 164
Candidate Starts for Stultus_80:

(Start: 164 @56979 has 36 MA's), (178, 57027), (182, 57036), (Start: 184 @57048 has 2 MA's), (256, 57246), (260, 57261), (289, 57321), (293, 57327), (294, 57330), (297, 57342), (298, 57348), (303, 57363), (361, 57474), (397, 57588), (400, 57621), (403, 57633), (411, 57666), (416, 57693), (422, 57714),

Gene: SunnyJune_15 Start: 11330, Stop: 12013, Start Num: 160
Candidate Starts for SunnyJune_15:
(Start: 160 @11330 has 7 MA's), (183, 11390), (191, 11414), (272, 11591), (382, 11825), (395, 11858),

Gene: SussRoloMann_66 Start: 42588, Stop: 43298, Start Num: 164
Candidate Starts for SussRoloMann_66:
(71, 42354), (118, 42483), (Start: 164 @42588 has 36 MA's), (172, 42615), (192, 42681), (294, 42906), (303, 42939), (327, 42993), (361, 43050), (380, 43101), (382, 43104), (400, 43179),

Gene: SwagPigglett_72 Start: 46406, Stop: 47356, Start Num: 110
Candidate Starts for SwagPigglett_72:
(Start: 110 @46406 has 30 MA's), (151, 46508), (167, 46538), (173, 46559), (196, 46631), (202, 46655), (214, 46679), (223, 46709), (225, 46715), (250, 46781), (254, 46787), (268, 46835), (301, 46898), (312, 46928), (344, 47012), (386, 47147), (390, 47153), (397, 47177), (398, 47180), (400, 47210), (403, 47222), (411, 47255), (417, 47291), (418, 47300), (424, 47312), (429, 47318), (434, 47330), (439, 47339),

Gene: Swole_70 Start: 43859, Stop: 42993, Start Num: 65
Candidate Starts for Swole_70:
(56, 43886), (61, 43865), (Start: 65 @43859 has 7 MA's), (Start: 79 @43802 has 1 MA's), (83, 43799), (98, 43769), (Start: 101 @43760 has 3 MA's), (151, 43640), (233, 43532), (259, 43463), (295, 43388), (377, 43202), (386, 43172), (423, 43013),

Gene: TJE1_18 Start: 318, Stop: 1046, Start Num: 163
Candidate Starts for TJE1_18:
(Start: 163 @318 has 63 MA's), (171, 345), (174, 354), (179, 372), (182, 381), (191, 411), (245, 528), (339, 711), (361, 735), (368, 750), (408, 906), (410, 915),

Gene: Taquito_70 Start: 43842, Stop: 44687, Start Num: 116
Candidate Starts for Taquito_70:
(93, 43791), (Start: 116 @43842 has 22 MA's), (128, 43869), (146, 43899), (230, 44127), (233, 44139), (253, 44187), (278, 44253), (367, 44427), (388, 44505), (397, 44532), (402, 44571),

Gene: Teal_46 Start: 46880, Stop: 46161, Start Num: 170
Candidate Starts for Teal_46:
(Start: 170 @46880 has 78 MA's), (189, 46814), (202, 46772), (207, 46763), (211, 46757), (245, 46673), (262, 46628), (283, 46595), (287, 46589), (318, 46514), (398, 46310),

Gene: Teatealatte_43 Start: 45553, Stop: 44837, Start Num: 170
Candidate Starts for Teatealatte_43:
(Start: 170 @45553 has 78 MA's), (174, 45538), (207, 45436), (245, 45346), (249, 45340), (318, 45187), (351, 45124), (361, 45094), (417, 44872),

Gene: Teech_43 Start: 45354, Stop: 44638, Start Num: 170
Candidate Starts for Teech_43:
(Start: 170 @45354 has 78 MA's), (174, 45339), (207, 45237), (245, 45147), (249, 45141), (318, 44988), (351, 44925), (361, 44895), (417, 44673),

Gene: Thespis_62 Start: 40418, Stop: 41080, Start Num: 155
Candidate Starts for Thespis_62:
(Start: 117 @40337 has 1 MA's), (Start: 120 @40346 has 3 MA's), (133, 40373), (Start: 155 @40418 has 8 MA's), (172, 40451), (191, 40505), (200, 40532), (237, 40592), (282, 40682), (290, 40694), (301, 40727), (382, 40892), (395, 40925), (400, 40961), (421, 41051),

Gene: Thing3_86 Start: 58360, Stop: 59106, Start Num: 164
Candidate Starts for Thing3_86:
(134, 58285), (143, 58309), (Start: 164 @58360 has 36 MA's), (178, 58408), (182, 58417), (Start: 184 @58429 has 2 MA's), (256, 58627), (260, 58642), (289, 58702), (293, 58708), (294, 58711), (297, 58723), (298, 58729), (303, 58744), (361, 58855), (397, 58969), (403, 59014), (411, 59047), (416, 59074), (422, 59095),

Gene: Thing3_10 Start: 5311, Stop: 6054, Start Num: 163
Candidate Starts for Thing3_10:
(Start: 163 @5311 has 63 MA's), (181, 5371), (182, 5374), (192, 5410), (222, 5476), (235, 5521), (241, 5539), (244, 5545), (280, 5623), (304, 5683), (317, 5707), (323, 5716), (334, 5749), (357, 5788), (363, 5797), (381, 5857), (391, 5878), (396, 5896), (397, 5899), (405, 5950), (415, 5998),

Gene: Tiamoceli_4 Start: 2479, Stop: 3267, Start Num: 80
Candidate Starts for Tiamoceli_4:
(Start: 80 @2479 has 1 MA's), (150, 2644), (209, 2791), (225, 2833), (262, 2935), (269, 2950), (367, 3043), (373, 3067), (417, 3259),

Gene: Tote_65 Start: 41126, Stop: 40260, Start Num: 65
Candidate Starts for Tote_65:
(56, 41153), (61, 41132), (Start: 65 @41126 has 7 MA's), (Start: 79 @41069 has 1 MA's), (83, 41066), (98, 41036), (Start: 101 @41027 has 3 MA's), (151, 40907), (233, 40799), (259, 40730), (295, 40655), (377, 40469), (386, 40439), (423, 40280),

Gene: Tredge_43 Start: 45553, Stop: 44837, Start Num: 170
Candidate Starts for Tredge_43:
(Start: 170 @45553 has 78 MA's), (174, 45538), (207, 45436), (245, 45346), (249, 45340), (318, 45187), (351, 45124), (361, 45094), (417, 44872),

Gene: Tripl3t_61 Start: 42636, Stop: 41530, Start Num: 33
Candidate Starts for Tripl3t_61:
(Start: 33 @42636 has 5 MA's), (66, 42525), (87, 42480), (Start: 155 @42396 has 8 MA's), (198, 42273), (226, 42219), (232, 42198), (233, 42189), (243, 42153), (277, 42075), (289, 42048), (293, 42042), (313, 41982), (314, 41979), (345, 41850), (353, 41808), (376, 41736), (377, 41724), (379, 41715), (382, 41706), (392, 41685), (396, 41667), (400, 41631),

Gene: TripleJ_61 Start: 37250, Stop: 37999, Start Num: 164
Candidate Starts for TripleJ_61:
(Start: 164 @37250 has 36 MA's), (171, 37274), (172, 37277), (183, 37310), (Start: 184 @37319 has 2 MA's), (189, 37334), (208, 37382), (224, 37415), (245, 37466), (260, 37499), (293, 37565), (297, 37580), (303, 37601), (327, 37655), (380, 37763), (382, 37766), (403, 37853),

Gene: Trouble_68 Start: 43948, Stop: 43082, Start Num: 67
Candidate Starts for Trouble_68:
(Start: 60 @43963 has 1 MA's), (Start: 67 @43948 has 6 MA's), (Start: 73 @43927 has 4 MA's), (Start: 79 @43894 has 1 MA's), (83, 43891), (98, 43861), (Start: 101 @43852 has 3 MA's), (151, 43732), (233, 43624), (259, 43555), (295, 43480), (377, 43294), (386, 43264), (423, 43105),

Gene: Tweety_66 Start: 43468, Stop: 44124, Start Num: 163
Candidate Starts for Tweety_66:
(82, 43291), (90, 43306), (94, 43315), (134, 43411), (Start: 163 @43468 has 63 MA's), (191, 43549), (200, 43576), (237, 43636), (282, 43726), (290, 43738), (301, 43771), (382, 43936), (395, 43969), (400, 44005), (417, 44086), (421, 44095),

Gene: Ubuntu_67 Start: 44916, Stop: 45578, Start Num: 163
Candidate Starts for Ubuntu_67:
(38, 44574), (63, 44655), (77, 44700), (82, 44724), (104, 44775), (126, 44829), (Start: 155 @44904 has 8 MA's), (157, 44907), (Start: 163 @44916 has 63 MA's), (172, 44943), (253, 45117), (288, 45195), (292, 45201), (299, 45225), (305, 45234), (325, 45276), (369, 45360), (373, 45363), (382, 45396), (384, 45402), (386, 45408), (401, 45471), (410, 45507), (415, 45534), (417, 45549), (421, 45558),

Gene: UmaThurman_67 Start: 42612, Stop: 43637, Start Num: 75
Candidate Starts for UmaThurman_67:
(9, 42123), (10, 42144), (11, 42156), (15, 42375), (16, 42387), (22, 42435), (Start: 75 @42612 has 13 MA's), (115, 42708), (140, 42765), (150, 42798), (165, 42828), (176, 42861), (195, 42942), (228, 43032), (230, 43038), (259, 43119), (281, 43170), (349, 43326), (378, 43425),

Gene: Utz_60 Start: 42126, Stop: 43184, Start Num: 75
Candidate Starts for Utz_60:
(15, 41889), (16, 41901), (22, 41949), (Start: 75 @42126 has 13 MA's), (115, 42222), (140, 42279), (150, 42312), (165, 42342), (195, 42456), (228, 42546), (242, 42597), (250, 42609), (259, 42633), (267, 42657), (278, 42678), (281, 42684), (378, 42972),

Gene: Vasanti_62 Start: 41618, Stop: 42619, Start Num: 75
Candidate Starts for Vasanti_62:
(7, 41102), (46, 41525), (64, 41585), (Start: 75 @41618 has 13 MA's), (111, 41702), (115, 41714), (140, 41771), (150, 41804), (165, 41834), (209, 41948), (250, 42044), (259, 42068), (278, 42113), (281, 42119), (333, 42218), (367, 42359), (378, 42407),

Gene: Venti_58 Start: 37622, Stop: 38488, Start Num: 120
Candidate Starts for Venti_58:
(97, 37571), (Start: 103 @37586 has 2 MA's), (Start: 120 @37622 has 3 MA's), (Start: 163 @37721 has 63 MA's), (172, 37751), (183, 37784), (Start: 184 @37793 has 2 MA's), (199, 37841), (218, 37874), (237, 37943), (266, 38015), (279, 38039), (287, 38054), (366, 38225), (374, 38261), (394, 38327), (397, 38333), (416, 38438), (421, 38456),

Gene: Verity_88 Start: 60390, Stop: 61079, Start Num: 163
Candidate Starts for Verity_88:
(137, 60333), (Start: 163 @60390 has 63 MA's), (191, 60471), (320, 60765), (325, 60777), (389, 60915), (395, 60933), (410, 61008), (411, 61014),

Gene: ViaConlectus_88 Start: 58070, Stop: 58717, Start Num: 163
Candidate Starts for ViaConlectus_88:
(100, 57944), (121, 57989), (132, 58013), (Start: 163 @58070 has 63 MA's), (191, 58151), (239, 58247), (262, 58292), (300, 58370), (308, 58385), (354, 58460), (365, 58484), (421, 58697),

Gene: Vitaenoii_45 Start: 46926, Stop: 46213, Start Num: 170
Candidate Starts for Vitaenoii_45:
(76, 47169), (Start: 170 @46926 has 78 MA's), (174, 46911), (207, 46809), (245, 46719), (318, 46560), (351, 46497), (361, 46467), (398, 46356), (400, 46326), (417, 46245),

Gene: Vopal_77 Start: 43204, Stop: 44103, Start Num: 103
Candidate Starts for Vopal_77:
(12, 42793), (13, 42805), (49, 43036), (Start: 103 @43204 has 2 MA's), (111, 43213), (Start: 155 @43321 has 8 MA's), (176, 43375), (397, 43927), (403, 43972), (424, 44062), (432, 44077),

Gene: Walrus_66 Start: 42197, Stop: 43261, Start Num: 75
Candidate Starts for Walrus_66:
(11, 41744), (15, 41963), (16, 41975), (22, 42023), (Start: 75 @42197 has 13 MA's), (115, 42293), (140, 42350), (150, 42383), (165, 42413), (195, 42527), (228, 42617), (250, 42680), (259, 42704), (278, 42749), (281, 42755), (333, 42854), (378, 43043),

Gene: Watermelon_68 Start: 43252, Stop: 42389, Start Num: 67
Candidate Starts for Watermelon_68:
(Start: 60 @43267 has 1 MA's), (Start: 67 @43252 has 6 MA's), (Start: 73 @43231 has 4 MA's), (Start: 79 @43201 has 1 MA's), (83, 43198), (98, 43168), (Start: 101 @43159 has 3 MA's), (151, 43039), (233, 42931), (259, 42862), (295, 42787), (377, 42601), (386, 42571), (423, 42412),

Gene: Webster2_67 Start: 44904, Stop: 45578, Start Num: 155
Candidate Starts for Webster2_67:
(38, 44574), (63, 44655), (77, 44700), (82, 44724), (104, 44775), (126, 44829), (Start: 155 @44904 has 8 MA's), (157, 44907), (Start: 163 @44916 has 63 MA's), (172, 44943), (253, 45117), (288, 45195), (292, 45201), (299, 45225), (305, 45234), (325, 45276), (369, 45360), (373, 45363), (382, 45396), (384, 45402), (386, 45408), (401, 45471), (410, 45507), (415, 45534), (417, 45549), (421, 45558),

Gene: WheatThin_65 Start: 42576, Stop: 43286, Start Num: 164
Candidate Starts for WheatThin_65:
(71, 42342), (118, 42471), (Start: 164 @42576 has 36 MA's), (172, 42603), (192, 42669), (294, 42894), (303, 42927), (327, 42981), (361, 43038), (380, 43089), (382, 43092), (400, 43167),

Gene: Wheeler_71 Start: 44519, Stop: 43659, Start Num: 67
Candidate Starts for Wheeler_71:
(Start: 60 @44534 has 1 MA's), (Start: 67 @44519 has 6 MA's), (Start: 73 @44498 has 4 MA's), (Start: 79 @44468 has 1 MA's), (83, 44465), (98, 44435), (Start: 101 @44426 has 3 MA's), (151, 44306), (233, 44198), (259, 44129), (295, 44054), (377, 43868), (386, 43838), (423, 43679),

Gene: Whitspit_63 Start: 41262, Stop: 40420, Start Num: 73
Candidate Starts for Whitspit_63:
(Start: 60 @41298 has 1 MA's), (Start: 67 @41283 has 6 MA's), (Start: 73 @41262 has 4 MA's), (Start: 79 @41232 has 1 MA's), (83, 41229), (98, 41199), (Start: 101 @41190 has 3 MA's), (151, 41070), (233, 40962), (259, 40893), (295, 40818), (377, 40632), (386, 40602), (423, 40443),

Gene: Whitty_59 Start: 41222, Stop: 41959, Start Num: 169
Candidate Starts for Whitty_59:
(24, 40805), (102, 41063), (106, 41069), (Start: 169 @41222 has 7 MA's), (182, 41264), (204, 41336), (215, 41354), (261, 41480), (266, 41498), (318, 41612), (332, 41648), (358, 41693), (382, 41777), (385, 41786), (387, 41789), (393, 41798), (397, 41816), (423, 41948),

Gene: Whouxphf_64 Start: 43966, Stop: 44916, Start Num: 110
Candidate Starts for Whouxphf_64:
(Start: 110 @43966 has 30 MA's), (151, 44068), (167, 44098), (173, 44119), (196, 44191), (202, 44215), (214, 44239), (223, 44269), (225, 44275), (250, 44341), (254, 44347), (268, 44395), (301, 44458), (312, 44488), (386, 44707), (390, 44713), (397, 44737), (398, 44740), (400, 44770), (403,

44782), (411, 44815), (417, 44851), (418, 44860), (424, 44872), (429, 44878), (434, 44890), (439, 44899),

Gene: Wintermute_71 Start: 43867, Stop: 44712, Start Num: 116
Candidate Starts for Wintermute_71:
(93, 43816), (Start: 116 @43867 has 22 MA's), (128, 43894), (146, 43924), (230, 44152), (233, 44164), (253, 44212), (278, 44278), (367, 44452), (388, 44530), (397, 44557), (402, 44596),

Gene: Wishmaker_62 Start: 44916, Stop: 45578, Start Num: 163
Candidate Starts for Wishmaker_62:
(38, 44574), (63, 44655), (77, 44700), (82, 44724), (104, 44775), (126, 44829), (Start: 155 @44904 has 8 MA's), (157, 44907), (Start: 163 @44916 has 63 MA's), (172, 44943), (253, 45117), (288, 45195), (292, 45201), (299, 45225), (305, 45234), (325, 45276), (369, 45360), (373, 45363), (382, 45396), (384, 45402), (386, 45408), (401, 45471), (410, 45507), (415, 45534), (417, 45549), (421, 45558),

Gene: Woes_46 Start: 46931, Stop: 46212, Start Num: 170
Candidate Starts for Woes_46:
(Start: 170 @46931 has 78 MA's), (189, 46865), (207, 46814), (211, 46808), (245, 46724), (262, 46679), (287, 46640), (318, 46565), (398, 46361),

Gene: Worcestershire_46 Start: 44270, Stop: 43548, Start Num: 170
Candidate Starts for Worcestershire_46:
(Start: 170 @44270 has 78 MA's), (182, 44231), (189, 44204), (207, 44153), (238, 44078), (245, 44063), (287, 43979), (318, 43904), (380, 43748), (398, 43700), (400, 43670), (424, 43568),

Gene: Xula_54 Start: 38111, Stop: 39022, Start Num: 74
Candidate Starts for Xula_54:
(Start: 74 @38111 has 17 MA's), (Start: 79 @38138 has 1 MA's), (84, 38144), (Start: 101 @38180 has 3 MA's), (150, 38297), (Start: 163 @38318 has 63 MA's), (165, 38327), (167, 38330), (206, 38393), (233, 38429), (236, 38441), (242, 38462), (278, 38543), (355, 38729), (367, 38759), (397, 38864),

Gene: Y10_68 Start: 43844, Stop: 44689, Start Num: 116
Candidate Starts for Y10_68:
(Start: 116 @43844 has 22 MA's), (128, 43871), (146, 43901), (230, 44129), (233, 44141), (253, 44189), (278, 44255), (367, 44429), (388, 44507), (397, 44534), (402, 44573),

Gene: Y2_68 Start: 43844, Stop: 44689, Start Num: 116
Candidate Starts for Y2_68:
(Start: 116 @43844 has 22 MA's), (128, 43871), (146, 43901), (230, 44129), (233, 44141), (253, 44189), (278, 44255), (367, 44429), (388, 44507), (397, 44534), (402, 44573),

Gene: YasnayaPolyana_70 Start: 43693, Stop: 44538, Start Num: 116
Candidate Starts for YasnayaPolyana_70:
(93, 43642), (Start: 116 @43693 has 22 MA's), (128, 43720), (146, 43750), (230, 43978), (233, 43990), (253, 44038), (278, 44104), (367, 44278), (388, 44356), (397, 44383), (402, 44422),

Gene: Yorick_66 Start: 44206, Stop: 45156, Start Num: 110
Candidate Starts for Yorick_66:
(Start: 110 @44206 has 30 MA's), (151, 44308), (167, 44338), (173, 44359), (196, 44431), (202, 44455), (214, 44479), (223, 44509), (225, 44515), (250, 44581), (254, 44587), (268, 44635), (301, 44698), (312, 44728), (386, 44947), (390, 44953), (397, 44977), (398, 44980), (400, 45010), (403, 45022), (411, 45055), (417, 45091), (418, 45100), (424, 45112), (429, 45118), (434, 45130), (439, 45139),

Gene: ZenTime222_66 Start: 42173, Stop: 42910, Start Num: 169
Candidate Starts for ZenTime222_66:
(24, 41756), (102, 42014), (106, 42020), (Start: 169 @42173 has 7 MA's), (182, 42215), (204, 42287), (215, 42305), (261, 42431), (266, 42449), (318, 42563), (332, 42599), (358, 42644), (382, 42728), (385, 42737), (387, 42740), (393, 42749), (397, 42767), (423, 42899),

Gene: Zipp_89 Start: 60361, Stop: 61050, Start Num: 163
Candidate Starts for Zipp_89:
(137, 60304), (Start: 163 @60361 has 63 MA's), (191, 60442), (320, 60736), (325, 60748), (389, 60886), (395, 60904), (410, 60979), (411, 60985),

Gene: Zizzle_71 Start: 45692, Stop: 46642, Start Num: 110
Candidate Starts for Zizzle_71:
(Start: 110 @45692 has 30 MA's), (151, 45794), (167, 45824), (173, 45845), (196, 45917), (202, 45941), (214, 45965), (223, 45995), (225, 46001), (250, 46067), (254, 46073), (268, 46121), (301, 46184), (312, 46214), (386, 46433), (390, 46439), (397, 46463), (398, 46466), (400, 46496), (403, 46508), (411, 46541), (417, 46577), (418, 46586), (424, 46598), (429, 46604), (434, 46616), (439, 46625), (441, 46634),

Gene: Zucker_72 Start: 42192, Stop: 43091, Start Num: 103
Candidate Starts for Zucker_72:
(12, 41781), (13, 41793), (49, 42024), (Start: 103 @42192 has 2 MA's), (111, 42201), (149, 42297), (Start: 155 @42309 has 8 MA's), (176, 42363), (233, 42531), (397, 42915), (402, 42954), (403, 42960), (424, 43050),