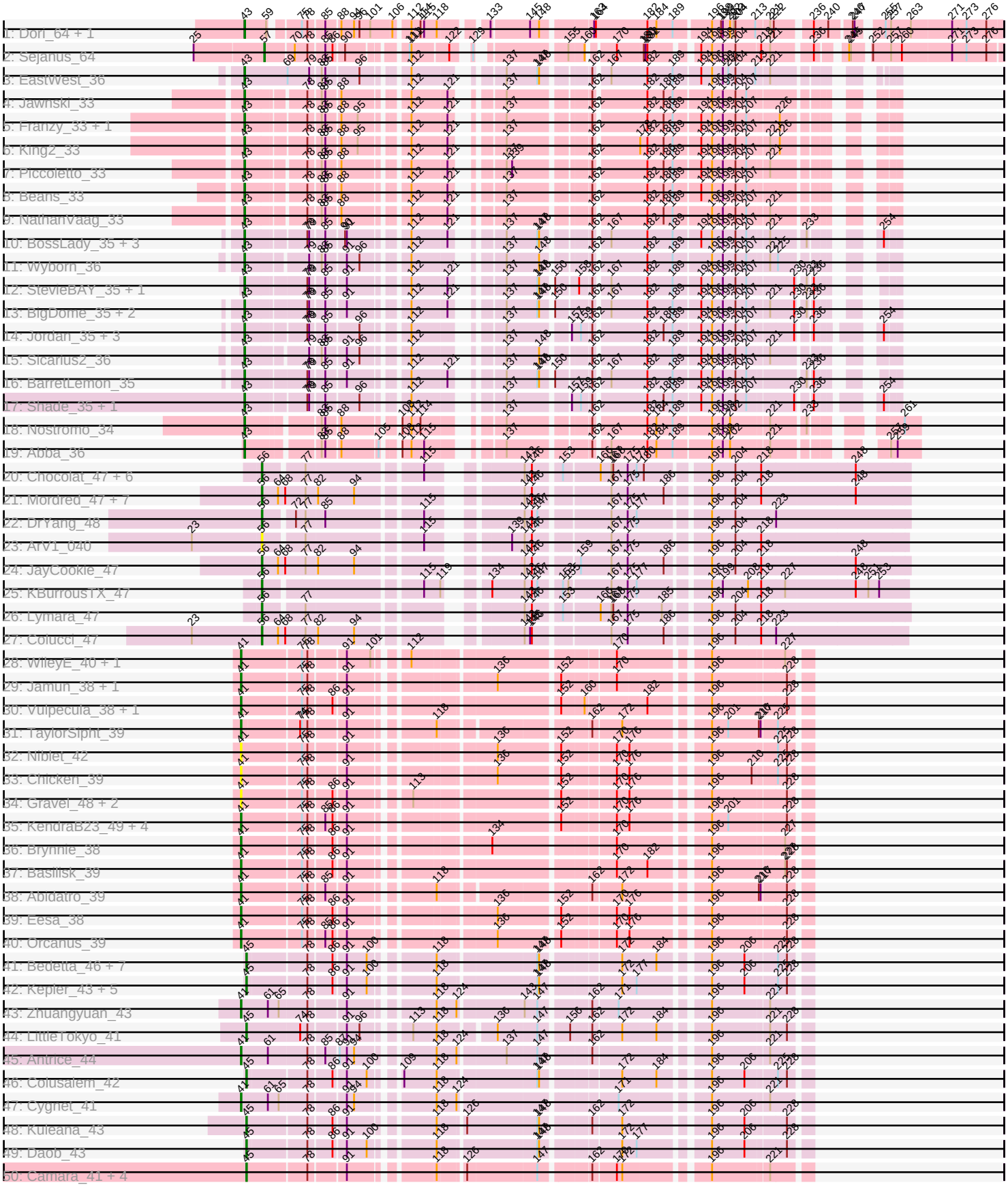
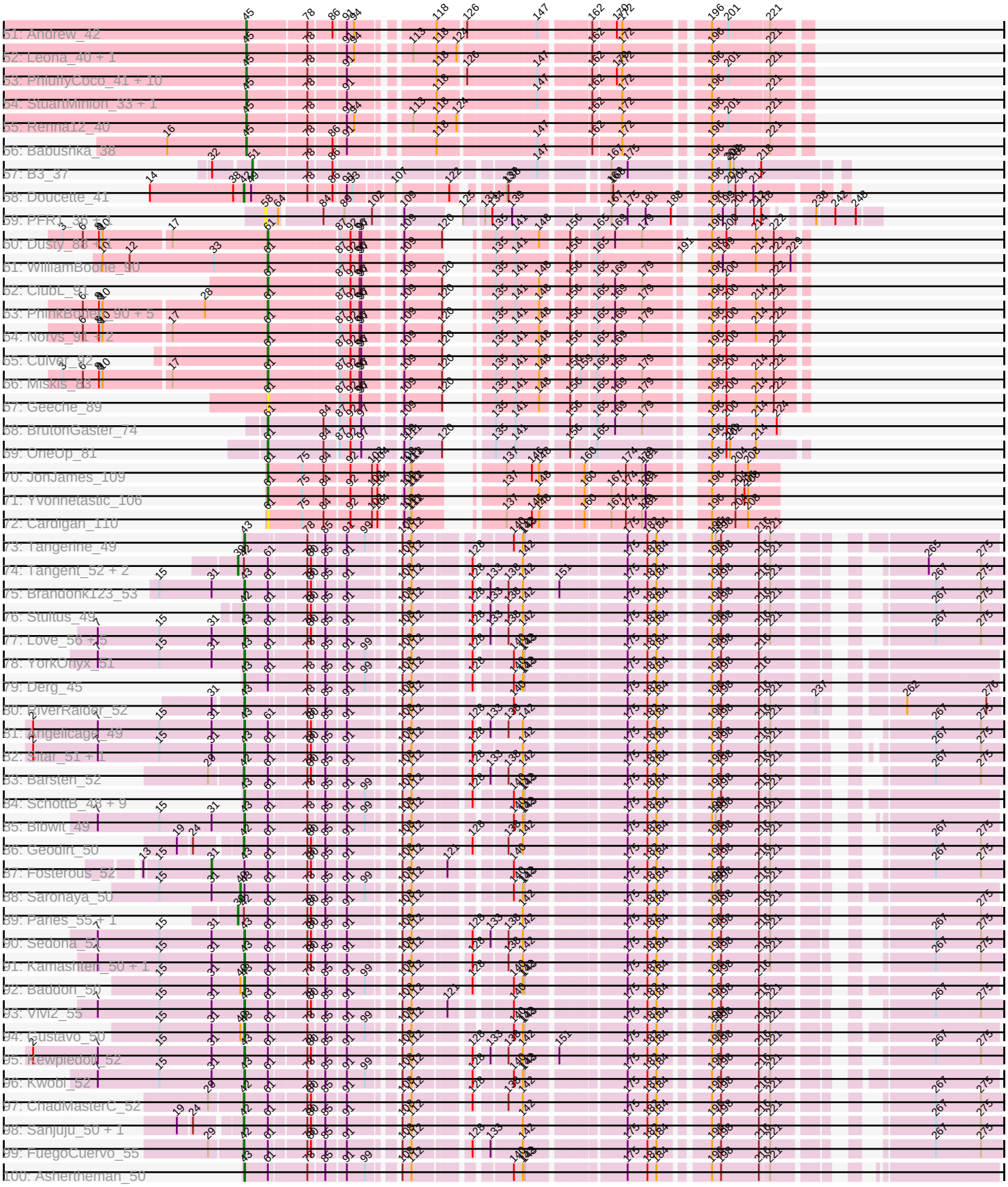
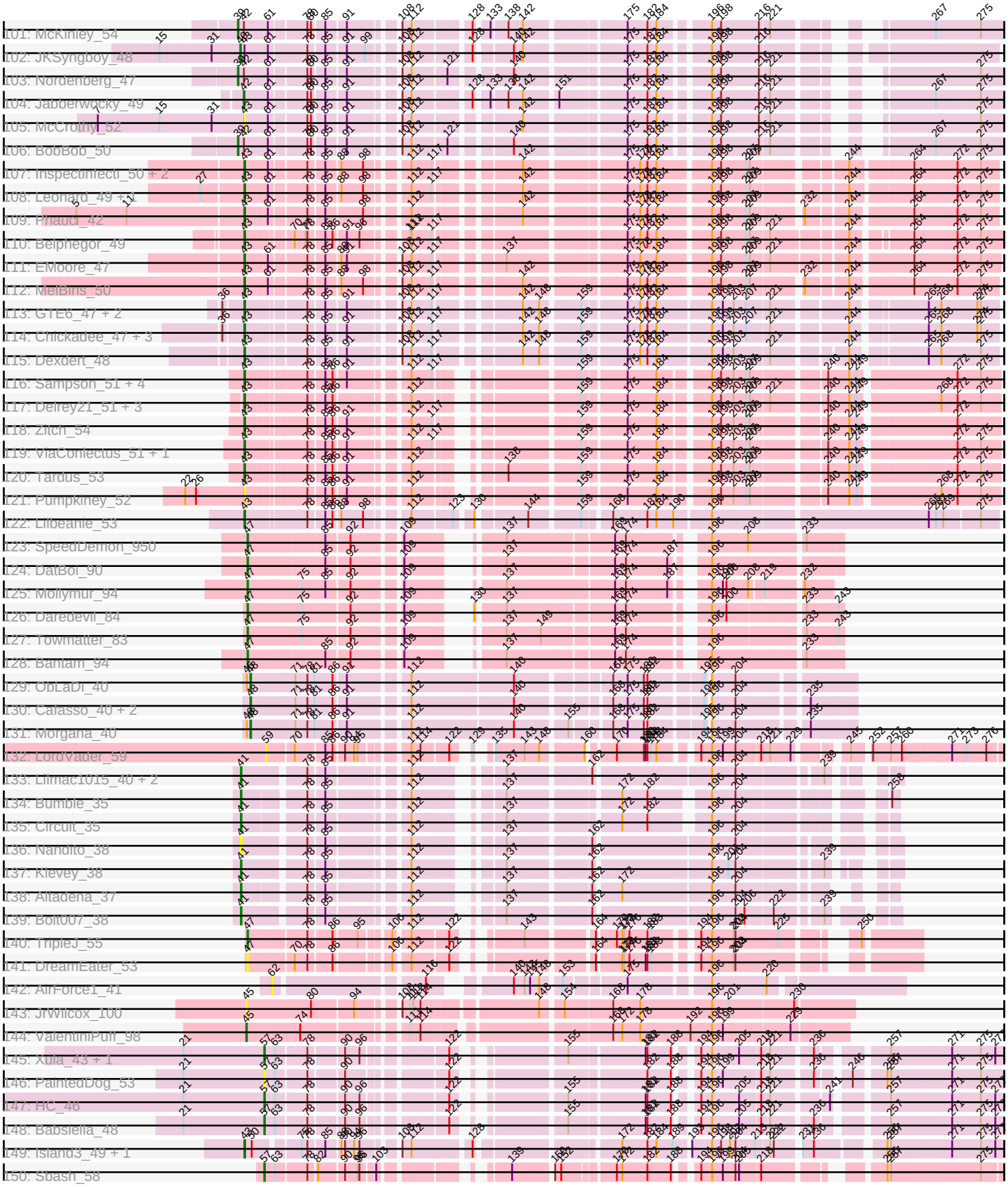
Pham 290735


1: Dori_64 + 1
2: Sejanus_64
3: EastWest_36
4: Jawnski_33
5: Franzy_33 + 1
6: King2_33
7: Piccoletto_33
8: Beans_33
9: NathanVaag_33
10: BossLady_35 + 3
11: Wyborn_36
12: StevieBAY_35 + 1
13: BigDome_35 + 2
14: Jordan_35 + 3
15: Sicarius2_36
16: BarretLemon_35
17: Shade_35 + 1
18: Nostromo_34
19: Abba_36
20: Chocolat_47 + 6
21: Mordred_47 + 7
22: DrYang_48
23: Arv1_040
24: JayCookie_47
25: KBurrousTX_47
26: Lymara_47
27: Colucci_47
28: WileyE_40 + 1
29: Jamun_38 + 1
30: Vulpecula_38 + 1
31: TaylorSpht_39
32: Niblet_42
33: Chicken_39
34: Gravel_48 + 2
35: KendraB23_49 + 4
36: Brynnie_38
37: Basilisk_39
38: Abidatro_39
39: Eesa_38
40: Orcanus_39
41: Bedetta_46 + 7
42: Kepler_43 + 5
43: Zhuangyuan_43
44: LittleTokyo_41
45: Antrice_44
46: Colusalem_42
47: Cygnet_41
48: Kuleana_43
49: Daob_43
50: Camara_41 + 4

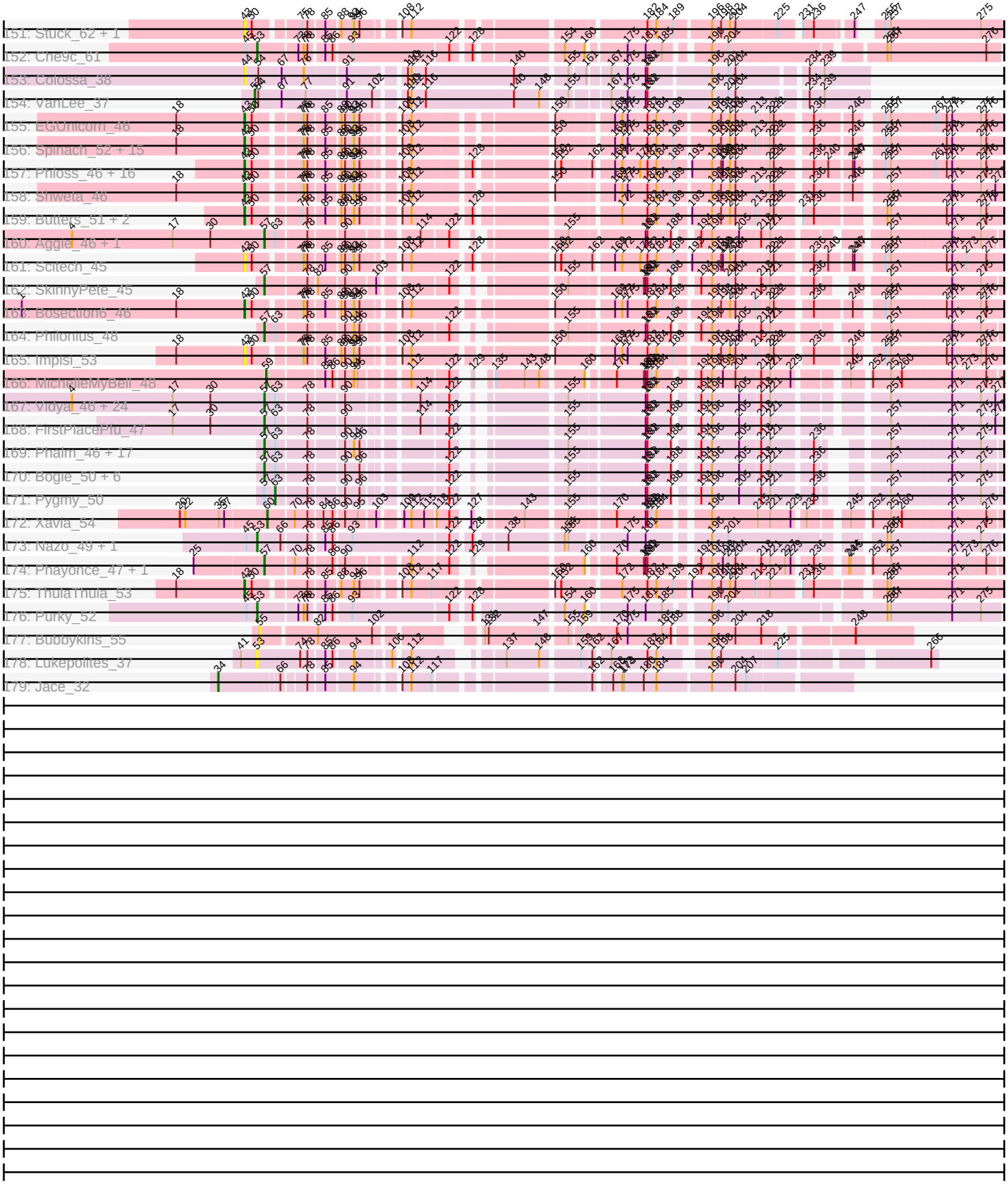
Pham 290735


51: Andrew_42
52: Leona_40 + 1
53: PhluffyCoco_41 + 10
54: StuartMinion_33 + 1
55: Renna12_40
56: Babushka_38
57: B3_37
58: Doucette_41
59: PFR1_35 + 1
60: Dusty_88 + 1
61: WilliamBoone_90
62: CludL_91
63: PhinkBone_90 + 5
64: Norvs_91 + 2
65: Culver_82
66: Miskis_83
67: Geeche_89
68: BrutonGaster_74
69: OneUp_81
70: JonJames_109
71: Yvonnetastic_106
72: Cardigan_110
73: Tangerine_49
74: Tangent_52 + 2
75: Brandonk123_53
76: Stultus_49
77: Love_56 + 5
78: YorkOnyx_51
79: Derg_45
80: RiverRaider_52
81: Angelicaga_49
82: Sitar_51 + 1
83: Barsten_52
84: SchottB_48 + 9
85: Bibwit_49
86: Geodin_50
87: Fosterous_52
88: Saronaya_50
89: Paries_55 + 1
90: Sedona_54
91: Kamashten_50 + 1
92: Baddon_50
93: Vivi2_55
94: Gustavo_50
95: Rewpiedow_52
96: Kwobi_52
97: ChadMasterC_52
98: Sanjuju_50 + 1
99: FuegoCuervo_55
100: Ashertheman_50

Pham 290735


I01: McKinley_54
I02: JKSyngboy_48
I03: Nordenberg_47
I04: Jabberwocky_49
I05: McCroomJ_52
I06: BobBob_50
I07: Inspectimecti_50 + 2
I08: Leonard_49 + 1
I09: Phaudi_42
I10: Belphegor_49
I11: EMoore_47
I12: MelBins_50
I13: GTE6_47 + 2
I14: Chickadee_47 + 3
I15: Dexdert_48
I16: Sampson_51 + 4
I17: Delrey21_51 + 3
I18: Zitch_54
I19: ViaConiectus_51 + 1
I20: Tardus_53
I21: Pumpkiney_52
I22: Lilbeanie_53
I23: SpeedDemon_950
I24: DatBoi_90
I25: Mollymur_94
I26: Daredevil_84
I27: Towmatter_83
I28: Bantam_94
I29: ObLaDi_40
I30: Calasso_40 + 2
I31: Morgana_40
I32: LordVader_59
I33: Lilmac1015_40 + 2
I34: Bumble_35
I35: Circuit_35
I36: Nandito_38
I37: Kievey_38
I38: Altadena_37
I39: Bolt007_38
I40: TripleJ_55
I41: DreamEater_53
I42: AirForce1_41
I43: JrWilcox_100
I44: ValentiniPuff_98
I45: Xula_43 + 1
I46: PaintedDog_53
I47: HC_46
I48: Babsiella_48
I49: Island3_49 + 1
I50: Sbash_58

Pham 290735


151: Stuck_62 + 1
152: Che9c_61
153: Colossa_38
154: VanLee_37
155: EGUnicorn_46
156: Spinach_52 + 15
157: Phloss_46 + 16
158: Shweta_46
159: Butters_51 + 2
160: Aggie_46 + 1
161: Scitech_45
162: SkinnyPete_45
163: Bosection6_46
164: Philonius_48
165: Impisi_53
166: MichaelMyBell_48
167: Vidya_46 + 24
168: FirstPlacePlu_47
169: Phaim_46 + 17
170: Bogie_50 + 6
171: Pygmy_50
172: Xavia_54
173: Nazo_49 + 1
174: Phayonce_47 + 1
175: ThulaThula_53
176: Purky_52
177: Bubbykins_55
178: Lukepoiites_37
179: Jace_32

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 290735 Report

This analysis was run 03/28/26 on database version 641.

Pham number 290735 has 376 members, 57 are drafts.

Phages represented in each track:
- Track 1 : Dori_64, Mask_64
- Track 2 : Sejanus_64
- Track 3 : EastWest_36
- Track 4 : Jawnski_33
- Track 5 : Franzy_33, Brent_33
- Track 6 : King2_33
- Track 7 : Piccoletto_33
- Track 8 : Beans_33
- Track 9 : NathanVaag_33
- Track 10 : BossLady_35, TaeYoung_35, Grekaycon_35, Martha_35
- Track 11 : Wyborn_36
- Track 12 : StevieBAY_35, GravityBall_35
- Track 13 : BigDome_35, LeeroyJ_35, Timinator_35
- Track 14 : Jordan_35, Pippa_35, Zartrosa_35, JKerns_35
- Track 15 : Sicarius2_36
- Track 16 : BarretLemon_35
- Track 17 : Shade_35, Sonny_35
- Track 18 : Nostromo_34
- Track 19 : Abba_36
- Track 20 : Chocolat_47, Chubster_47, Linus_47, MoyaNatalis_47, EdgarPoe_47, Conboy_47, PrincessTrina_47
- Track 21 : Mordred_47, RosiePosie_47, Chipper1996_470, Tophat_47, Kabreeze_47, Scavito_47, HumptyDumpty_47, JaNo_47
- Track 22 : DrYang_48
- Track 23 : ArV1_040
- Track 24 : JayCookie_47
- Track 25 : KBurrousTX_47
- Track 26 : Lymara_47
- Track 27 : Colucci_47
- Track 28 : WileyE_40, Chickaboom_40
- Track 29 : Jamun_38, Galaxy_38
- Track 30 : Vulpecula_38, Ruchi_38
- Track 31 : TaylorSipht_39
- Track 32 : Niblet_42
- Track 33 : Chicken_39
- Track 34 : Gravel_48, Pelletreau_48, Westrich_47
- Track 35 : KendraB23_49, Amanises_48, Shen_38, Zixiang_42, Toad24_41

• Track 36 : Brynnie_38
• Track 37 : Basilisk_39
• Track 38 : Abidatro_39
• Track 39 : Eesa_38
• Track 40 : Orcanus_39
• Track 41 : Bedetta_46, Amelia_41, Cote_43, Bibble12_45, HannahPhantana_42, Pineda_44, Jerole_42, Coral_41
• Track 42 : Kepler_43, Melons_43, Lunar_43, PhirstandPhine_50, Polka_41, OtsoOtso_42
• Track 43 : Zhuangyuan_43
• Track 44 : LittleTokyo_41
• Track 45 : Antrice_44
• Track 46 : Colusalem_42
• Track 47 : Cygnet_41
• Track 48 : Kuleana_43
• Track 49 : Daob_43
• Track 50 : Camara_41, Glotell_42, Amphitrite_41, AdoptaAdorbs_40, KHumphrey_41
• Track 51 : Andrew_42
• Track 52 : Leona_40, Azaz_42
• Track 53 : PhluffyCoco_41, Rattail_41, HamCheese_41, Laphuphu24k_40, DanHam62_41, AmiCi24_40, RedFox_41, Fingolfin_41, Juno112_40, Atlantica_41, Oppalora_40
• Track 54 : StuartMinion_33, AlexMinion_43
• Track 55 : Renna12_40
• Track 56 : Babushka_38
• Track 57 : B3_37
• Track 58 : Doucette_41
• Track 59 : PFR1_36, PFR2_38
• Track 60 : Dusty_88, Abscondus_90
• Track 61 : WilliamBoone_90
• Track 62 : ClubL_91
• Track 63 : PhinkBoden_90, Bachita_93, Smoothie_92, Lozinak_91, Cucurbita_92, Engineer_92
• Track 64 : Norvs_91, Aphelion_90, Toniann_91
• Track 65 : Culver_92
• Track 66 : Miskis_83
• Track 67 : Geeche_89
• Track 68 : BrutonGaster_74
• Track 69 : OneUp_81
• Track 70 : JonJames_109
• Track 71 : Yvonnetastic_106
• Track 72 : Cardigan_110
• Track 73 : Tangerine_49
• Track 74 : Tangent_52, Charming_52, Rofo_51
• Track 75 : Brandonk123_53
• Track 76 : Stultus_49
• Track 77 : Love_56, Affeca_49, Shivanishola_51, Keitabear_51, Ailee_48, MoontowerMania_51
• Track 78 : YorkOnyx_51
• Track 79 : Derg_45
• Track 80 : RiverRaider_52
• Track 81 : Angelicage_49

• Track 82 : Sitar_51, Lennon_51
• Track 83 : Barsten_52
• Track 84 : SchottB_48, Bizzy_50, StorminNorm_49, Flatwoods_50, Tycho_49, Kroos_50, Baumdotcom_48, Ribeye_50, Gaea_49, LilHam_47
• Track 85 : Bibwit_49
• Track 86 : Geodirt_50
• Track 87 : Fosterous_52
• Track 88 : Saronaya_50
• Track 89 : Paries_55, Galadriel_52
• Track 90 : Sedona_51
• Track 91 : Kamashten_50, Thing3_50
• Track 92 : Baddon_50
• Track 93 : Vivi2_55
• Track 94 : Gustavo_50
• Track 95 : Kewpiedoll_52
• Track 96 : Kwobi_52
• Track 97 : ChadMasterC_52
• Track 98 : Sanjuju_50, Fitzgerald_50
• Track 99 : FuegoCuervo_55
• Track 100 : Ashertheman_50
• Track 101 : McKinley_54
• Track 102 : JKSyngboy_48
• Track 103 : Nordenberg_47
• Track 104 : Jabberwocky_49
• Track 105 : McCrothy_52
• Track 106 : BobBob_50
• Track 107 : Inspectinfecti_50, Ali17_47, Hans_51
• Track 108 : Leonard_49, Phinally_49
• Track 109 : Phauci_42
• Track 110 : Belphegor_49
• Track 111 : EMoore_47
• Track 112 : MelBins_50
• Track 113 : GTE6_47, RoadKill_45, EdmundFerry_46
• Track 114 : Chickadee_47, Tiamoceli_48, Twonlo_45, Kwekel_47
• Track 115 : Dexdert_48
• Track 116 : Sampson_51, Scioto_52, Abblin_51, APunk_52, Natkenzie_51
• Track 117 : Delrey21_51, DoctorFroggo_51, Zipp_52, Verity_51
• Track 118 : Zitch_54
• Track 119 : ViaConlectus_51, BigHunkinEater_53
• Track 120 : Tardus_53
• Track 121 : Pumpkiney_52
• Track 122 : Lilbeanie_53
• Track 123 : SpeedDemon_950
• Track 124 : DatBoi_90
• Track 125 : Mollymur_94
• Track 126 : Daredevil_84
• Track 127 : Towmatter_83
• Track 128 : Bantam_94
• Track 129 : ObLaDi_40
• Track 130 : Cafasso_40, ModicumRichard_40, Aleemily_39
• Track 131 : Morgana_40
• Track 132 : LordVader_59
• Track 133 : Lilmac1015_40, Prairie_37, CalWood4100_40

• Track 134 : Bumble_35
• Track 135 : Circuit_35
• Track 136 : Nandito_38
• Track 137 : Klevey_38
• Track 138 : Altadena_37
• Track 139 : Bolt007_38
• Track 140 : TripleJ_55
• Track 141 : DreamEater_53
• Track 142 : AirForce1_41
• Track 143 : JrWilcox_100
• Track 144 : ValentiniPuff_98
• Track 145 : Xula_43, QueenHazel_44
• Track 146 : PaintedDog_53
• Track 147 : HC_46
• Track 148 : Babsiella_48
• Track 149 : Island3_49, Brujita_49
• Track 150 : Sbash_58
• Track 151 : Stuck_62, Bluvara_53
• Track 152 : Che9c_61
• Track 153 : Colossa_38
• Track 154 : VanLee_37
• Track 155 : EGUnicorn_46
• Track 156 : Spinach_52, Panchino_45, BabeRuth_53, Phrann_49, ShrimpFriedEgg_52, Jamie19_46, Hanako_52, Redi_52, PhancyPhin_52, SpongeBob_46, Rebel_44, Nenae_52, Purgamenstris_52, Raymond7_46, Andies_45, Snekmaggedon_46
• Track 157 : Phloss_46, Tortoise12_47, Pipsqueaks_48, Smurph_48, Carcharodon_48, Parmesanjohn_48, Tessdabest_49, Silvafighter_49, Schnauzer_49, Fulbright_47, Melville_51, Magsby_48, Xerxes_48, Chewbacca_50, Gex_48, Tapioca_50, Duplicity_48
• Track 158 : Shweta_46
• Track 159 : Butters_51, Kevin1_50, Rubeelu_51
• Track 160 : Aggie_46, Silvy_46
• Track 161 : Scitech_45
• Track 162 : SkinnyPete_45
• Track 163 : Bosection6_46
• Track 164 : Philonius_48
• Track 165 : Impisi_53
• Track 166 : MichelleMyBell_48
• Track 167 : Vidya_46, Kari_46, Jebeks_48, Necropolis_46, Mangethe_47, Bartholomew_46, Dynamo_47, Charlie_48, Langerak_47, GaloreK_46, Donovan_47, Jung_45, Techage_46, Malithi_47, Arib1_47, Phegasus_47, Etoile_46, Chubbello_46, BronnyJr_45, Zilizebeth_47, Fishburne_46, Journey_47, Majeke_47, Polkaroo_47, Venti_47
• Track 168 : FirstPlacePfu_47
• Track 169 : Phalm_46, Juniormint_47, Thespis_46, StevieRay_46, KilKor_46, Bunnies_47, Xeno_48, PeanutPie_47, Brusacoram_46, Bhagsy_47, CactusJack_46, Willsammy_45, Atcoo_46, Glaske_46, Gavriela_46, Megiddo_46, Ksquared_46, StressBall_46
• Track 170 : Bogie_50, HUHilltop_48, Camster_47, GreaseLightnin_47, Phineas_48, Sonah_47, Shipwreck_50
• Track 171 : Pygmy_50
• Track 172 : Xavia_54

• Track 173 : Nazo_49, BigNuz_48
• Track 174 : Phayonce_47, Mao1_65
• Track 175 : ThulaThula_53
• Track 176 : Purky_52
• Track 177 : Bubbykins_55
• Track 178 : Lukepolites_37
• Track 179 : Jace_32

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

The start number called the most often in the published annotations is 43, it was called in 130 of the 319 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• APunk_52, Abba_36, Abblin_51, Affeca_49, Ailee_48, Ali17_47, Andies_45, Angelicage_49, Ashertheman_50, BabeRuth_53, Baddon_50, BarretLemon_35, Baumdotcom_48, Beans_33, Belphegor_49, Bibwit_49, BigDome_35, BigHunkinEater_53, Bizzy_50, Bluvara_53, Bosection6_46, BossLady_35, Brandonk123_53, Brent_33, Brujita_49, Butters_51, Carcharodon_48, Chewbacca_50, Chickadee_47, Delrey21_51, Derg_45, Dexdert_48, DoctorFroggo_51, Dori_64, Duplicity_48, EGUnicorn_46, EMoore_47, EastWest_36, EdmundFerry_46, Flatwoods_50, Franzy_33, Fulbright_47, GTE6_47, Gaea_49, Gex_48, GravityBall_35, Grekaycon_35, Gustavo_50, Hanako_52, Hans_51, Impisi_53, Inspectinfecti_50, Island3_49, JKerns_35, Jamie19_46, Jawnski_33, Jordan_35, Kamashten_50, Keitabear_51, Kevin1_50, Kewpiedoll_52, King2_33, Kroos_50, Kwekel_47, Kwobi_52, LeeroyJ_35, Lennon_51, Leonard_49, LilHam_47, Lilbeanie_53, Love_56, Magsby_48, Martha_35, Mask_64, McCrothy_52, MelBins_50, Melville_51, MoontowerMania_51, NathanVaag_33, Natkenzie_51, Nenae_52, Nostromo_34, Panchino_45, Parmesanjohn_48, PhancyPhin_52, Phauci_42, Phinally_49, Phloss_46, Phrann_49, Piccoletto_33, Pippa_35, Pipsqueaks_48, Pumpkiney_52, Purgamenstris_52, Raymond7_46, Rebel_44, Redi_52, Ribeye_50, RiverRaider_52, RoadKill_45, Rubeelu_51, Sampson_51, Schnauzer_49, SchottB_48, Scioto_52, Scitech_45, Sedona_51, Shade_35, Shivanishola_51, ShrimpFriedEgg_52, Shweta_46, Sicarius2_36, Silvafighter_49, Sitar_51, Smurph_48, Snekmaggedon_46, Sonny_35, Spinach_52, SpongeBob_46, StevieBAY_35, StorminNorm_49, Stuck_62, TaeYoung_35, Tangerine_49, Tapioca_50, Tardus_53, Tessdabest_49, Thing3_50, ThulaThula_53, Tiamoceli_48, Timinator_35, Tortoise12_47, Twonlo_45, Tycho_49, Verity_51, ViaConlectus_51, Vivi2_55, Wyborn_36, Xerxes_48, YorkOnyx_51, Zartrosa_35, Zipp_52, Zitch_54,

Genes that have the "Most Annotated" start but do not call it:
• Fosterous_52, JKSyngboy_48, Saronaya_50,

Genes that do not have the "Most Annotated" start:
• Abidatro_39, Abscondus_90, AdoptaAdorbs_40, Aggie_46, AirForce1_41, Aleemily_39, AlexMinion_43, Altadena_37, Amanises_48, Amelia_41, AmiCi24_40, Amphitrite_41, Andrew_42, Antrice_44, Aphelion_90, ArV1_040, Arib1_47, Atcoo_46, Atlantica_41, Azaz_42, B3_37, Babsiella_48, Babushka_38, Bachita_93, Bantam_94, Barsten_52, Bartholomew_46, Basilisk_39, Bedetta_46, Bhagsy_47, Bibble12_45, BigNuz_48, BobBob_50, Bogie_50, Bolt007_38, BronnyJr_45, Brusacoram_46,

BrutonGaster_74, Brynnie_38, Bubbykins_55, Bumble_35, Bunnies_47, CactusJack_46, Cafasso_40, CalWood4100_40, Camara_41, Camster_47, Cardigan_110, ChadMasterC_52, Charlie_48, Charming_52, Che9c_61, Chickaboom_40, Chicken_39, Chipper1996_470, Chocolat_47, Chubbello_46, Chubster_47, Circuit_35, ClubL_91, Colossa_38, Colucci_47, Colusalem_42, Conboy_47, Coral_41, Cote_43, Cucurbita_92, Culver_92, Cygnet_41, DanHam62_41, Daob_43, Daredevil_84, DatBoi_90, Donovan_47, Doucette_41, DrYang_48, DreamEater_53, Dusty_88, Dynamo_47, EdgarPoe_47, Eesa_38, Engineer_92, Etoile_46, Fingolfin_41, FirstPlacePfu_47, Fishburne_46, Fitzgerald_50, FuegoCuervo_55, Galadriel_52, Galaxy_38, GaloreK_46, Gavriela_46, Geeche_89, Geodirt_50, Glaske_46, Glotell_42, Gravel_48, GreaseLightnin_47, HC_46, HUHilltop_48, HamCheese_41, HannahPhantana_42, HumptyDumpty_47, JaNo_47, Jabberwocky_49, Jace_32, Jamun_38, JayCookie_47, Jebeks_48, Jerole_42, JonJames_109, Journey_47, JrWilcox_100, Jung_45, Juniormint_47, Juno112_40, KBurrousTX_47, KHumphrey_41, Kabreeze_47, Kari_46, KendraB23_49, Kepler_43, KilKor_46, Klevey_38, Ksquared_46, Kuleana_43, Langerak_47, Laphuphu24k_40, Leona_40, Lilmac1015_40, Linus_47, LittleTokyo_41, LordVader_59, Lozinak_91, Lukepolites_37, Lunar_43, Lymara_47, Majeke_47, Malithi_47, Mangethe_47, Mao1_65, McKinley_54, Megiddo_46, Melons_43, MichelleMyBell_48, Miskis_83, ModicumRichard_40, Mollymur_94, Mordred_47, Morgana_40, MoyaNatalis_47, Nandito_38, Nazo_49, Necropolis_46, Niblet_42, Nordenberg_47, Norvs_91, ObLaDi_40, OneUp_81, Oppalora_40, Orcanus_39, OtsoOtso_42, PFR1_36, PFR2_38, PaintedDog_53, Paries_55, PeanutPie_47, Pelletreau_48, Phalm_46, Phayonce_47, Phegasus_47, Philonius_48, Phineas_48, PhinkBoden_90, PhirstandPhine_50, PhluffyCoco_41, Pineda_44, Polka_41, Polkaroo_47, Prairie_37, PrincessTrina_47, Purky_52, Pygmy_50, QueenHazel_44, Rattail_41, RedFox_41, Renna12_40, Rofo_51, RosiePosie_47, Ruchi_38, Sanjuju_50, Sbash_58, Scavito_47, Sejanus_64, Shen_38, Shipwreck_50, Silvy_46, SkinnyPete_45, Smoothie_92, Sonah_47, SpeedDemon_950, StevieRay_46, StressBall_46, StuartMinion_33, Stultus_49, Tangent_52, TaylorSipht_39, Techage_46, Thespis_46, Toad24_41, Toniann_91, Tophat_47, Towmatter_83, TripleJ_55, ValentiniPuff_98, VanLee_37, Venti_47, Vidya_46, Vulpecula_38, Westrich_47, WileyE_40, WilliamBoone_90, Willsammy_45, Xavia_54, Xeno_48, Xula_43, Yvonnetastic_106, Zhuangyuan_43, Zilizebeth_47, Zixiang_42,

Summary by start number:

Start 31:
• Found in 25 of 376 (6.6%) of genes in pham
• Manual Annotations of this start: 1 of 319
• Called 4.0% of time when present
• Phage (with cluster) where this start called: Fosterous_52 (DE1),

Start 34:
• Found in 1 of 376 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 319
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Jace_32 (singleton),

Start 39:
• Found in 8 of 376 (2.1%) of genes in pham
• Manual Annotations of this start: 8 of 319
• Called 100.0% of time when present

• Phage (with cluster) where this start called: BobBob_50 (DE1), Charming_52 (DE1), Galadriel_52 (DE1), McKinley_54 (DE1), Nordenberg_47 (DE1), Paries_55 (DE1), Rofo_51 (DE1), Tangent_52 (DE1),

Start 40:
• Found in 4 of 376 (1.1%) of genes in pham
• Manual Annotations of this start: 2 of 319
• Called 50.0% of time when present
• Phage (with cluster) where this start called: JKSyngboy_48 (DE1), Saronaya_50 (DE1),

Start 41:
• Found in 35 of 376 (9.3%) of genes in pham
• Manual Annotations of this start: 23 of 319
• Called 97.1% of time when present
• Phage (with cluster) where this start called: Abidatro_39 (AS1), Altadena_37 (FH), Amanises_48 (AS1), Antrice_44 (AS2), Basilisk_39 (AS1), Bolt007_38 (FH), Brynnie_38 (AS1), Bumble_35 (FH), CalWood4100_40 (FH), Chickaboom_40 (AS1), Chicken_39 (AS1), Circuit_35 (FH), Cygnet_41 (AS2), Eesa_38 (AS1), Galaxy_38 (AS1), Gravel_48 (AS1), Jamun_38 (AS1), KendraB23_49 (AS1), Klevey_38 (FH), Lilmac1015_40 (FH), Nandito_38 (FH), Niblet_42 (AS1), Orcanus_39 (AS1), Pelletreau_48 (AS1), Prairie_37 (FH), Ruchi_38 (AS1), Shen_38 (AS1), TaylorSipht_39 (AS1), Toad24_41 (AS1), Vulpecula_38 (AS1), Westrich_47 (AS1), WileyE_40 (AS1), Zhuangyuan_43 (AS2), Zixiang_42 (AS1),

Start 42:
• Found in 17 of 376 (4.5%) of genes in pham
• Manual Annotations of this start: 9 of 319
• Called 52.9% of time when present
• Phage (with cluster) where this start called: Barsten_52 (DE1), ChadMasterC_52 (DE1), Doucette_41 (BW), Fitzgerald_50 (DE1), FuegoCuervo_55 (DE1), Geodirt_50 (DE1), Jabberwocky_49 (DE1), Sanjuju_50 (DE1), Stultus_49 (DE1),

Start 43:
• Found in 146 of 376 (38.8%) of genes in pham
• Manual Annotations of this start: 130 of 319
• Called 97.9% of time when present
• Phage (with cluster) where this start called: APunk_52 (DE4), Abba_36 (AO3), Abblin_51 (DE4), Affeca_49 (DE1), Ailee_48 (DE1), Ali17_47 (DE2), Andies_45 (N), Angelicage_49 (DE1), Ashertheman_50 (DE1), BabeRuth_53 (N), Baddon_50 (DE1), BarretLemon_35 (AO2), Baumdotcom_48 (DE1), Beans_33 (AO1), Belphegor_49 (DE2), Bibwit_49 (DE1), BigDome_35 (AO2), BigHunkinEater_53 (DE4), Bizzy_50 (DE1), Bluvara_53 (I), Bosection6_46 (N), BossLady_35 (AO2), Brandonk123_53 (DE1), Brent_33 (AO1), Brujita_49 (I1), Butters_51 (N), Carcharodon_48 (N), Chewbacca_50 (N), Chickadee_47 (DE3), Delrey21_51 (DE4), Derg_45 (DE1), Dexdert_48 (DE3), DoctorFroggo_51 (DE4), Dori_64 (AD), Duplicity_48 (N), EGUnicorn_46 (N), EMoore_47 (DE2), EastWest_36 (AO), EdmundFerry_46 (DE3), Flatwoods_50 (DE1), Franzy_33 (AO1), Fulbright_47 (N), GTE6_47 (DE3), Gaea_49 (DE1), Gex_48 (N), GravityBall_35 (AO2), Grekaycon_35 (AO2), Gustavo_50 (DE1), Hanako_52 (N), Hans_51 (DE2), Impisi_53 (N), Inspectinfecti_50 (DE2), Island3_49 (I1), JKerns_35 (AO2), Jamie19_46 (N), Jawnski_33 (AO1), Jordan_35 (AO2), Kamashten_50 (DE1), Keitabear_51 (DE1), Kevin1_50 (N), Kewpiedoll_52 (DE1), King2_33 (AO1), Kroos_50 (DE1), Kwekel_47 (DE3), Kwobi_52 (DE1), LeeroyJ_35

(AO2), Lennon_51 (DE1), Leonard_49 (DE2), LilHam_47 (DE1), Lilbeanie_53 (DE5), Love_56 (DE1), Magsby_48 (N), Martha_35 (AO2), Mask_64 (AD), McCrothy_52 (DE1), MelBins_50 (DE2), Melville_51 (N), MoontowerMania_51 (DE1), NathanVaag_33 (AO1), Natkenzie_51 (DE4), Nenae_52 (N), Nostromo_34 (AO3), Panchino_45 (N), Parmesanjohn_48 (N), PhancyPhin_52 (N), Phauci_42 (DE2), Phinally_49 (DE2), Phloss_46 (N), Phrann_49 (N), Piccoletto_33 (AO1), Pippa_35 (AO2), Pipsqueaks_48 (N), Pumpkiney_52 (DE4), Purgamenstris_52 (N), Raymond7_46 (N), Rebel_44 (N), Redi_52 (N), Ribeye_50 (DE1), RiverRaider_52 (DE1), RoadKill_45 (DE3), Rubeelu_51 (N), Sampson_51 (DE4), Schnauzer_49 (N), SchottB_48 (DE1), Scioto_52 (DE4), Scitech_45 (N), Sedona_51 (DE1), Shade_35 (AO2), Shivanishola_51 (DE1), ShrimpFriedEgg_52 (N), Shweta_46 (N), Sicarius2_36 (AO2), Silvafighter_49 (N), Sitar_51 (DE1), Smurph_48 (N), Snekmaggedon_46 (N), Sonny_35 (AO2), Spinach_52 (N), SpongeBob_46 (N), StevieBAY_35 (AO2), StorminNorm_49 (DE1), Stuck_62 (I2), TaeYoung_35 (AO2), Tangerine_49 (DE1), Tapioca_50 (N), Tardus_53 (DE4), Tessdabest_49 (N), Thing3_50 (DE1), ThulaThula_53 (P5), Tiamoceli_48 (DE3), Timinator_35 (AO2), Tortoise12_47 (N), Twonlo_45 (DE3), Tycho_49 (DE1), Verity_51 (DE4), ViaConlectus_51 (DE4), Vivi2_55 (DE1), Wyborn_36 (AO2), Xerxes_48 (N), YorkOnyx_51 (DE1), Zartrosa_35 (AO2), Zipp_52 (DE4), Zitch_54 (DE4),

Start 44:
• Found in 1 of 376 (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: Colossa_38 (KA),

Start 45:
• Found in 47 of 376 (12.5%) of genes in pham
• Manual Annotations of this start: 29 of 319
• Called 91.5% of time when present
• Phage (with cluster) where this start called: AdoptaAdorbs_40 (AS3), AlexMinion_43 (AS3), Amelia_41 (AS2), AmiCi24_40 (AS3), Amphitrite_41 (AS3), Andrew_42 (AS3), Atlantica_41 (AS3), Azaz_42 (AS3), Babushka_38 (AS3), Bedetta_46 (AS2), Bibble12_45 (AS2), Camara_41 (AS3), Colusalem_42 (AS2), Coral_41 (AS2), Cote_43 (AS2), DanHam62_41 (AS3), Daob_43 (AS2), Fingolfin_41 (AS3), Glotell_42 (AS3), HamCheese_41 (AS3), HannahPhantana_42 (AS2), Jerole_42 (AS2), JrWilcox_100 (GL), Juno112_40 (AS3), KHumphrey_41 (AS3), Kepler_43 (AS2), Kuleana_43 (AS2), Laphuphu24k_40 (AS3), Leona_40 (AS3), LittleTokyo_41 (AS2), Lunar_43 (AS2), Melons_43 (AS2), Oppalora_40 (AS3), OtsoOtso_42 (AS2), PhirstandPhine_50 (AS2), PhluffyCoco_41 (AS3), Pineda_44 (AS2), Polka_41 (AS2), Rattail_41 (AS3), RedFox_41 (AS3), Renna12_40 (AS3), StuartMinion_33 (AS3), ValentiniPuff_98 (GL),

Start 47:
• Found in 8 of 376 (2.1%) of genes in pham
• Manual Annotations of this start: 7 of 319
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bantam_94 (DL), Daredevil_84 (DL), DatBoi_90 (DL), DreamEater_53 (FJ), Mollymur_94 (DL), SpeedDemon_950 (DL), Towmatter_83 (DL), TripleJ_55 (FJ),

Start 48:
• Found in 5 of 376 (1.3%) of genes in pham

• Manual Annotations of this start: 5 of 319
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aleemily_39 (DZ), Cafasso_40 (DZ), ModicumRichard_40 (DZ), Morgana_40 (DZ), ObLaDi_40 (DZ),

Start 51:
• Found in 1 of 376 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 319
• Called 100.0% of time when present
• Phage (with cluster) where this start called: B3_37 (BV),

Start 52:
• Found in 1 of 376 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 319
• Called 100.0% of time when present
• Phage (with cluster) where this start called: VanLee_37 (KA),

Start 53:
• Found in 5 of 376 (1.3%) of genes in pham
• Manual Annotations of this start: 4 of 319
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BigNuz_48 (P4), Che9c_61 (I2), Lukepolites_37 (singleton), Nazo_49 (P4), Purky_52 (P6),

Start 55:
• Found in 1 of 376 (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: Bubbykins_55 (UNK),

Start 56:
• Found in 21 of 376 (5.6%) of genes in pham
• Manual Annotations of this start: 19 of 319
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ArV1_040 (AR), Chipper1996_470 (AR), Chocolat_47 (AR), Chubster_47 (AR), Colucci_47 (AR), Conboy_47 (AR), DrYang_48 (AR), EdgarPoe_47 (AR), HumptyDumpty_47 (AR), JaNo_47 (AR), JayCookie_47 (AR), KBurrousTX_47 (AR), Kabreeze_47 (AR), Linus_47 (AR), Lymara_47 (AR), Mordred_47 (AR), MoyaNatalis_47 (AR), PrincessTrina_47 (AR), RosiePosie_47 (AR), Scavito_47 (AR), Tophat_47 (AR),

Start 57:
• Found in 65 of 376 (17.3%) of genes in pham
• Manual Annotations of this start: 57 of 319
• Called 98.5% of time when present
• Phage (with cluster) where this start called: Aggie_46 (N), Arib1_47 (P1), Atcoo_46 (P1), Babsiella_48 (I1), Bartholomew_46 (P1), Bhagsy_47 (P1), Bogie_50 (P1), BronnyJr_45 (P1), Brusacoram_46 (P1), Bunnies_47 (P1), CactusJack_46 (P1), Camster_47 (P1), Charlie_48 (N), Chubbello_46 (P1), Donovan_47 (P1), Dynamo_47 (P1), Etoile_46 (P1), FirstPlacePfu_47 (P1), Fishburne_46 (P1), GaloreK_46 (P1), Gavriela_46 (P1), Glaske_46 (P1), GreaseLightnin_47 (P1), HC_46 (I1), HUHilltop_48 (P1), Jebeks_48 (P1), Journey_47 (N), Jung_45 (P1), Juniormint_47 (P1), Kari_46 (P1), KilKor_46 (P1), Ksquared_46 (P1), Langerak_47 (P1), Majeke_47

(P1), Malithi_47 (P1), Mangethe_47 (P1), Mao1_65 (AD), Megiddo_46 (P1), Necropolis_46 (P1), PaintedDog_53 (I1), PeanutPie_47 (P1), Phalm_46 (P1), Phayonce_47 (P5), Phegasus_47 (P1), Philonius_48 (N), Phineas_48 (P1), Polkaroo_47 (P1), QueenHazel_44 (I1), Sbash_58 (I2), Sejanus_64 (AD), Shipwreck_50 (P1), Silvy_46 (N), SkinnyPete_45 (N), Sonah_47 (P1), StevieRay_46 (P1), StressBall_46 (P1), Techage_46 (P1), Thespis_46 (P1), Venti_47 (P1), Vidya_46 (P1), Willsammy_45 (P1), Xeno_48 (N), Xula_43 (I1), Zilizebeth_47 (P1),

Start 58:
• Found in 2 of 376 (0.5%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: PFR1_36 (BX), PFR2_38 (BX),

Start 59:
• Found in 4 of 376 (1.1%) of genes in pham
• Manual Annotations of this start: 1 of 319
• Called 50.0% of time when present
• Phage (with cluster) where this start called: LordVader_59 (F), MichelleMyBell_48 (N),

Start 60:
• Found in 1 of 376 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 319
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Xavia_54 (P3),

Start 61:
• Found in 84 of 376 (22.3%) of genes in pham
• Manual Annotations of this start: 19 of 319
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Abscondus_90 (CQ1), Aphelion_90 (CQ1), Bachita_93 (CQ1), BrutonGaster_74 (CQ2), Cardigan_110 (DD), ClubL_91 (CQ1), Cucurbita_92 (CQ1), Culver_92 (CQ1), Dusty_88 (CQ1), Engineer_92 (CQ1), Geeche_89 (CQ1), JonJames_109 (DD), Lozinak_91 (CQ1), Miskis_83 (CQ1), Norvs_91 (CQ1), OneUp_81 (CQ2), PhinkBoden_90 (CQ1), Smoothie_92 (CQ1), Toniann_91 (CQ1), WilliamBoone_90 (CQ1), Yvonnetastic_106 (DD),

Start 62:
• Found in 1 of 376 (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: AirForce1_41 (FL),

Start 63:
• Found in 61 of 376 (16.2%) of genes in pham
• Manual Annotations of this start: 1 of 319
• Called 1.6% of time when present
• Phage (with cluster) where this start called: Pygmy_50 (P1),

Summary by clusters:

There are 39 clusters represented in this pham: DL, P3, DD, singleton, BV, BW, DZ, FH, FJ, BX, F, UNK, I1, FL, I2, CQ2, CQ1, AS3, AS2, AS1, P1, P6, AD, P4, P5, I, AO, N, AR, AO3, AO2, AO1, GL, KA, DE1, DE2, DE3, DE4, DE5,

Info for manual annotations of cluster AD:
•Start number 43 was manually annotated 2 times for cluster AD.
•Start number 57 was manually annotated 2 times for cluster AD.

Info for manual annotations of cluster AO:
•Start number 43 was manually annotated 1 time for cluster AO.

Info for manual annotations of cluster AO1:
•Start number 43 was manually annotated 7 times for cluster AO1.

Info for manual annotations of cluster AO2:
•Start number 43 was manually annotated 17 times for cluster AO2.

Info for manual annotations of cluster AO3:
•Start number 43 was manually annotated 2 times for cluster AO3.

Info for manual annotations of cluster AR:
•Start number 56 was manually annotated 19 times for cluster AR.

Info for manual annotations of cluster AS1:
•Start number 41 was manually annotated 13 times for cluster AS1.

Info for manual annotations of cluster AS2:
•Start number 41 was manually annotated 3 times for cluster AS2.
•Start number 45 was manually annotated 14 times for cluster AS2.

Info for manual annotations of cluster AS3:
•Start number 45 was manually annotated 14 times for cluster AS3.

Info for manual annotations of cluster BV:
•Start number 51 was manually annotated 1 time for cluster BV.

Info for manual annotations of cluster BW:
•Start number 42 was manually annotated 1 time for cluster BW.

Info for manual annotations of cluster CQ1:
•Start number 61 was manually annotated 15 times for cluster CQ1.

Info for manual annotations of cluster CQ2:
•Start number 61 was manually annotated 2 times for cluster CQ2.

Info for manual annotations of cluster DD:
•Start number 61 was manually annotated 2 times for cluster DD.

Info for manual annotations of cluster DE1:
•Start number 31 was manually annotated 1 time for cluster DE1.
•Start number 39 was manually annotated 8 times for cluster DE1.
•Start number 40 was manually annotated 2 times for cluster DE1.

•Start number 42 was manually annotated 8 times for cluster DE1.
•Start number 43 was manually annotated 34 times for cluster DE1.

Info for manual annotations of cluster DE2:
•Start number 43 was manually annotated 9 times for cluster DE2.

Info for manual annotations of cluster DE3:
•Start number 43 was manually annotated 7 times for cluster DE3.

Info for manual annotations of cluster DE4:
•Start number 43 was manually annotated 9 times for cluster DE4.

Info for manual annotations of cluster DE5:
•Start number 43 was manually annotated 1 time for cluster DE5.

Info for manual annotations of cluster DL:
•Start number 47 was manually annotated 6 times for cluster DL.

Info for manual annotations of cluster DZ:
•Start number 48 was manually annotated 5 times for cluster DZ.

Info for manual annotations of cluster FH:
•Start number 41 was manually annotated 7 times for cluster FH.

Info for manual annotations of cluster FJ:
•Start number 47 was manually annotated 1 time for cluster FJ.

Info for manual annotations of cluster GL:
•Start number 45 was manually annotated 1 time for cluster GL.

Info for manual annotations of cluster I1:
•Start number 43 was manually annotated 2 times for cluster I1.
•Start number 57 was manually annotated 4 times for cluster I1.

Info for manual annotations of cluster I2:
•Start number 53 was manually annotated 1 time for cluster I2.
•Start number 57 was manually annotated 1 time for cluster I2.

Info for manual annotations of cluster KA:
•Start number 52 was manually annotated 1 time for cluster KA.

Info for manual annotations of cluster N:
•Start number 43 was manually annotated 38 times for cluster N.
•Start number 57 was manually annotated 7 times for cluster N.
•Start number 59 was manually annotated 1 time for cluster N.

Info for manual annotations of cluster P1:
•Start number 57 was manually annotated 42 times for cluster P1.
•Start number 63 was manually annotated 1 time for cluster P1.

Info for manual annotations of cluster P3:
•Start number 60 was manually annotated 1 time for cluster P3.

Info for manual annotations of cluster P4:
•Start number 53 was manually annotated 2 times for cluster P4.

Info for manual annotations of cluster P5:
•Start number 43 was manually annotated 1 time for cluster P5.
•Start number 57 was manually annotated 1 time for cluster P5.

Info for manual annotations of cluster P6:
•Start number 53 was manually annotated 1 time for cluster P6.

Gene Information:

Gene: APunk_52 Start: 43066, Stop: 44106, Start Num: 43
Candidate Starts for APunk_52:
(Start: 43 @43066 has 130 MA's), (78, 43156), (85, 43180), (86, 43192), (91, 43210), (112, 43288), (117, 43321), (159, 43495), (175, 43561), (184, 43609), (196, 43681), (198, 43696), (203, 43717), (207, 43738), (209, 43741), (240, 43846), (244, 43879), (249, 43891), (272, 44038), (275, 44074),

Gene: Abba_36 Start: 28749, Stop: 29633, Start Num: 43
Candidate Starts for Abba_36:
(Start: 43 @28749 has 130 MA's), (83, 28854), (85, 28860), (88, 28881), (105, 28938), (108, 28953), (112, 28968), (115, 28989), (137, 29073), (162, 29190), (167, 29211), (182, 29271), (184, 29286), (189, 29313), (196, 29370), (199, 29388), (202, 29400), (221, 29457), (257, 29586), (259, 29595),

Gene: Abblin_51 Start: 43588, Stop: 44628, Start Num: 43
Candidate Starts for Abblin_51:
(Start: 43 @43588 has 130 MA's), (78, 43678), (85, 43702), (86, 43714), (91, 43732), (112, 43810), (117, 43843), (159, 44017), (175, 44083), (184, 44131), (196, 44203), (198, 44218), (203, 44239), (207, 44260), (209, 44263), (240, 44368), (244, 44401), (249, 44413), (272, 44560), (275, 44596),

Gene: Abidatro_39 Start: 26326, Stop: 27126, Start Num: 41
Candidate Starts for Abidatro_39:
(Start: 41 @26326 has 23 MA's), (75, 26422), (78, 26431), (85, 26455), (91, 26485), (118, 26602), (162, 26815), (172, 26860), (196, 26980), (216, 27052), (217, 27055), (228, 27094),

Gene: Abscondus_90 Start: 55792, Stop: 56517, Start Num: 61
Candidate Starts for Abscondus_90:
(3, 55459), (6, 55492), (8, 55519), (9, 55522), (10, 55525), (17, 55633), (Start: 61 @55792 has 19 MA's), (87, 55900), (92, 55918), (96, 55933), (97, 55936), (109, 55987), (120, 56050), (135, 56077), (141, 56110), (148, 56149), (156, 56188), (165, 56218), (169, 56245), (179, 56290), (196, 56371), (200, 56395), (214, 56440), (222, 56470),

Gene: AdoptaAdorbs_40 Start: 26015, Stop: 26812, Start Num: 45
Candidate Starts for AdoptaAdorbs_40:
(Start: 45 @26015 has 29 MA's), (78, 26111), (91, 26165), (118, 26282), (126, 26318), (147, 26429), (162, 26501), (170, 26537), (172, 26546), (196, 26666), (221, 26753),

Gene: Affeca_49 Start: 42918, Stop: 43916, Start Num: 43
Candidate Starts for Affeca_49:
(7, 42675), (15, 42777), (Start: 31 @42864 has 1 MA's), (Start: 43 @42918 has 130 MA's), (Start: 61 @42954 has 19 MA's), (78, 43005), (80, 43011), (85, 43029), (91, 43059), (108, 43122), (112, 43137), (128, 43218), (133, 43233), (138, 43257), (142, 43281), (175, 43428), (182, 43461), (184, 43476), (196, 43545), (198, 43560), (216, 43617), (221, 43632), (267, 43809), (275, 43881),

Gene: Aggie_46 Start: 32126, Stop: 33115, Start Num: 57
Candidate Starts for Aggie_46:
(4, 31805), (17, 31973), (30, 32036), (Start: 57 @32126 has 57 MA's), (Start: 63 @32141 has 1 MA's), (78, 32189), (90, 32240), (114, 32336), (122, 32375), (155, 32510), (181, 32621), (182, 32624), (188, 32663), (194, 32687), (196, 32705), (205, 32750), (218, 32780), (221, 32792), (257, 32936), (271, 33035), (275, 33083),

Gene: Ailee_48 Start: 42523, Stop: 43524, Start Num: 43
Candidate Starts for Ailee_48:
(7, 42280), (15, 42382), (Start: 31 @42469 has 1 MA's), (Start: 43 @42523 has 130 MA's), (Start: 61 @42559 has 19 MA's), (78, 42610), (80, 42616), (85, 42634), (91, 42664), (108, 42727), (112, 42742), (128, 42823), (133, 42838), (138, 42862), (142, 42886), (175, 43033), (182, 43066), (184, 43081), (196, 43150), (198, 43165), (216, 43222), (221, 43237), (267, 43417), (275, 43489),

Gene: AirForce1_41 Start: 31193, Stop: 32080, Start Num: 62
Candidate Starts for AirForce1_41:
(62, 31193), (116, 31409), (140, 31502), (143, 31520), (145, 31529), (148, 31544), (153, 31571), (175, 31661), (196, 31781), (220, 31871),

Gene: Aleemily_39 Start: 32837, Stop: 33721, Start Num: 48
Candidate Starts for Aleemily_39:
(Start: 48 @32837 has 5 MA's), (71, 32909), (78, 32927), (81, 32939), (86, 32966), (91, 32984), (112, 33071), (140, 33236), (168, 33368), (175, 33392), (180, 33419), (182, 33425), (195, 33506), (196, 33512), (204, 33551), (235, 33653),

Gene: AlexMinion_43 Start: 26181, Stop: 26978, Start Num: 45
Candidate Starts for AlexMinion_43:
(Start: 45 @26181 has 29 MA's), (78, 26277), (91, 26331), (118, 26448), (147, 26595), (162, 26667), (172, 26712), (196, 26832), (221, 26919),

Gene: Ali17_47 Start: 41267, Stop: 42328, Start Num: 43
Candidate Starts for Ali17_47:
(Start: 43 @41267 has 130 MA's), (Start: 61 @41303 has 19 MA's), (78, 41354), (85, 41378), (88, 41399), (98, 41435), (112, 41486), (117, 41519), (142, 41630), (175, 41777), (178, 41798), (182, 41810), (184, 41825), (196, 41906), (198, 41921), (207, 41963), (209, 41966), (244, 42095), (264, 42191), (272, 42263), (275, 42299),

Gene: Altadena_37 Start: 28014, Stop: 28847, Start Num: 41
Candidate Starts for Altadena_37:
(Start: 41 @28014 has 23 MA's), (78, 28104), (85, 28128), (112, 28236), (137, 28341), (162, 28461), (172, 28500), (196, 28638), (204, 28677),

Gene: Amanises_48 Start: 27385, Stop: 28191, Start Num: 41
Candidate Starts for Amanises_48:
(Start: 41 @27385 has 23 MA's), (75, 27481), (78, 27490), (85, 27514), (86, 27526), (91, 27544), (152, 27838), (170, 27919), (176, 27937), (196, 28045), (201, 28072), (228, 28159),

Gene: Amelia_41 Start: 26090, Stop: 26884, Start Num: 45
Candidate Starts for Amelia_41:
(Start: 45 @26090 has 29 MA's), (78, 26183), (86, 26219), (91, 26237), (100, 26270), (118, 26354), (147, 26501), (148, 26504), (172, 26618), (184, 26672), (196, 26738), (206, 26792), (225, 26837), (228, 26852),

Gene: AmiCi24_40 Start: 26013, Stop: 26810, Start Num: 45
Candidate Starts for AmiCi24_40:
(Start: 45 @26013 has 29 MA's), (78, 26109), (91, 26163), (118, 26280), (126, 26316), (147, 26427), (162, 26499), (170, 26535), (172, 26544), (196, 26664), (201, 26691), (221, 26751),

Gene: Amphitrite_41 Start: 26014, Stop: 26811, Start Num: 45
Candidate Starts for Amphitrite_41:
(Start: 45 @26014 has 29 MA's), (78, 26110), (91, 26164), (118, 26281), (126, 26317), (147, 26428), (162, 26500), (170, 26536), (172, 26545), (196, 26665), (221, 26752),

Gene: Andies_45 Start: 32643, Stop: 33707, Start Num: 43
Candidate Starts for Andies_45:
(18, 32529), (Start: 43 @32643 has 130 MA's), (50, 32655), (75, 32721), (76, 32724), (78, 32730), (85, 32754), (88, 32775), (90, 32781), (93, 32793), (94, 32796), (96, 32805), (108, 32847), (112, 32862), (150, 33054), (169, 33135), (172, 33147), (175, 33156), (182, 33189), (184, 33204), (189, 33231), (196, 33285), (198, 33300), (202, 33315), (204, 33324), (213, 33354), (221, 33372), (222, 33378), (236, 33429), (246, 33486), (255, 33522), (257, 33528), (270, 33618), (271, 33627), (275, 33675), (276, 33684),

Gene: Andrew_42 Start: 25907, Stop: 26704, Start Num: 45
Candidate Starts for Andrew_42:
(Start: 45 @25907 has 29 MA's), (78, 26003), (86, 26039), (91, 26057), (94, 26069), (118, 26174), (126, 26210), (147, 26321), (162, 26393), (170, 26429), (172, 26438), (196, 26558), (201, 26585), (221, 26645),

Gene: Angelicage_49 Start: 43336, Stop: 44331, Start Num: 43
Candidate Starts for Angelicage_49:
(2, 42985), (7, 43093), (15, 43195), (Start: 31 @43282 has 1 MA's), (Start: 43 @43336 has 130 MA's), (Start: 61 @43372 has 19 MA's), (78, 43423), (80, 43429), (85, 43447), (91, 43477), (108, 43540), (112, 43555), (128, 43636), (133, 43651), (138, 43675), (142, 43699), (175, 43846), (182, 43879), (184, 43894), (196, 43963), (198, 43978), (216, 44035), (221, 44050), (267, 44224), (275, 44296),

Gene: Antrice_44 Start: 27283, Stop: 28095, Start Num: 41
Candidate Starts for Antrice_44:
(Start: 41 @27283 has 23 MA's), (Start: 61 @27328 has 19 MA's), (78, 27391), (85, 27415), (87, 27433), (91, 27445), (94, 27457), (118, 27562), (124, 27592), (137, 27664), (147, 27712), (162, 27784), (196, 27949), (221, 28036),

Gene: Aphelion_90 Start: 56388, Stop: 57113, Start Num: 61
Candidate Starts for Aphelion_90:
(6, 56088), (8, 56115), (9, 56118), (10, 56121), (17, 56229), (Start: 61 @56388 has 19 MA's), (87, 56496), (92, 56514), (96, 56529), (97, 56532), (109, 56583), (120, 56646), (135, 56673), (141, 56706), (148, 56745), (156, 56784), (165, 56814), (169, 56841), (179, 56886), (196, 56967), (200, 56991), (214, 57036), (222, 57066),

Gene: ArV1_040 Start: 35856, Stop: 36800, Start Num: 56

Candidate Starts for ArV1_040:
(23, 35742), (Start: 56 @35856 has 19 MA's), (77, 35916), (115, 36090), (139, 36186), (143, 36207), (146, 36219), (167, 36333), (175, 36360), (196, 36480), (204, 36519), (218, 36561),

Gene: Arib1_47 Start: 32549, Stop: 33544, Start Num: 57
Candidate Starts for Arib1_47:
(4, 32228), (17, 32396), (30, 32459), (Start: 57 @32549 has 57 MA's), (Start: 63 @32564 has 1 MA's), (78, 32612), (90, 32663), (114, 32759), (122, 32798), (155, 32933), (181, 33044), (182, 33047), (188, 33086), (194, 33110), (196, 33128), (205, 33173), (218, 33203), (221, 33215), (257, 33362), (271, 33461), (275, 33509), (277, 33533),

Gene: Ashertheman_50 Start: 42632, Stop: 43633, Start Num: 43
Candidate Starts for Ashertheman_50:
(Start: 43 @42632 has 130 MA's), (Start: 61 @42668 has 19 MA's), (78, 42722), (85, 42746), (91, 42776), (99, 42806), (108, 42839), (112, 42854), (140, 42983), (142, 42998), (143, 43001), (175, 43145), (182, 43178), (184, 43193), (196, 43262), (198, 43277), (216, 43334), (221, 43349),

Gene: Atcoo_46 Start: 33030, Stop: 34004, Start Num: 57
Candidate Starts for Atcoo_46:
(Start: 57 @33030 has 57 MA's), (Start: 63 @33048 has 1 MA's), (78, 33096), (90, 33147), (94, 33162), (96, 33171), (122, 33282), (155, 33417), (181, 33528), (182, 33531), (188, 33570), (194, 33594), (196, 33612), (205, 33657), (218, 33687), (221, 33699), (236, 33756), (257, 33825), (271, 33924), (275, 33972),

Gene: Atlantica_41 Start: 26015, Stop: 26812, Start Num: 45
Candidate Starts for Atlantica_41:
(Start: 45 @26015 has 29 MA's), (78, 26111), (91, 26165), (118, 26282), (126, 26318), (147, 26429), (162, 26501), (170, 26537), (172, 26546), (196, 26666), (201, 26693), (221, 26753),

Gene: Azaz_42 Start: 26087, Stop: 26887, Start Num: 45
Candidate Starts for Azaz_42:
(Start: 45 @26087 has 29 MA's), (78, 26183), (91, 26237), (94, 26249), (113, 26318), (118, 26354), (124, 26384), (162, 26576), (172, 26621), (196, 26741), (221, 26828),

Gene: B3_37 Start: 26812, Stop: 27609, Start Num: 51
Candidate Starts for B3_37:
(32, 26755), (Start: 51 @26812 has 1 MA's), (78, 26887), (86, 26923), (147, 27193), (167, 27280), (175, 27307), (196, 27412), (201, 27439), (202, 27442), (203, 27448), (218, 27487),

Gene: BabeRuth_53 Start: 34364, Stop: 35428, Start Num: 43
Candidate Starts for BabeRuth_53:
(18, 34250), (Start: 43 @34364 has 130 MA's), (50, 34376), (75, 34442), (76, 34445), (78, 34451), (85, 34475), (88, 34496), (90, 34502), (93, 34514), (94, 34517), (96, 34526), (108, 34568), (112, 34583), (150, 34775), (169, 34856), (172, 34868), (175, 34877), (182, 34910), (184, 34925), (189, 34952), (196, 35006), (198, 35021), (202, 35036), (204, 35045), (213, 35075), (221, 35093), (222, 35099), (236, 35150), (246, 35207), (255, 35243), (257, 35249), (270, 35339), (271, 35348), (275, 35396), (276, 35405),

Gene: Babsiella_48 Start: 33402, Stop: 34397, Start Num: 57
Candidate Starts for Babsiella_48:
(21, 33267), (Start: 57 @33402 has 57 MA's), (Start: 63 @33417 has 1 MA's), (78, 33465), (90, 33516), (96, 33540), (122, 33651), (155, 33786), (181, 33897), (182, 33900), (188, 33939), (194, 33963), (196, 33981), (205, 34026), (218, 34056), (221, 34068), (236, 34125), (257, 34215), (271, 34314), (275,

34362), (277, 34386),

Gene: Babushka_38 Start: 25948, Stop: 26745, Start Num: 45
Candidate Starts for Babushka_38:
(16, 25816), (Start: 45 @25948 has 29 MA's), (78, 26044), (86, 26080), (91, 26098), (118, 26215), (147, 26362), (162, 26434), (172, 26479), (196, 26599), (221, 26686),

Gene: Bachita_93 Start: 56837, Stop: 57562, Start Num: 61
Candidate Starts for Bachita_93:
(6, 56537), (8, 56564), (9, 56567), (10, 56570), (28, 56732), (Start: 61 @56837 has 19 MA's), (87, 56945), (92, 56963), (96, 56978), (97, 56981), (109, 57032), (120, 57095), (135, 57122), (141, 57155), (148, 57194), (156, 57233), (165, 57263), (169, 57290), (179, 57335), (196, 57416), (200, 57440), (214, 57485), (222, 57515),

Gene: Baddon_50 Start: 43605, Stop: 44627, Start Num: 43
Candidate Starts for Baddon_50:
(15, 43464), (Start: 31 @43551 has 1 MA's), (Start: 40 @43599 has 2 MA's), (Start: 43 @43605 has 130 MA's), (Start: 61 @43641 has 19 MA's), (78, 43695), (85, 43719), (91, 43749), (99, 43779), (108, 43812), (112, 43827), (128, 43908), (140, 43956), (142, 43971), (143, 43974), (175, 44118), (182, 44151), (184, 44166), (196, 44235), (198, 44250), (216, 44307),

Gene: Bantam_94 Start: 63033, Stop: 62203, Start Num: 47
Candidate Starts for Bantam_94:
(Start: 47 @63033 has 7 MA's), (85, 62910), (92, 62874), (109, 62805), (137, 62697), (169, 62532), (174, 62514), (196, 62406), (233, 62262),

Gene: BarretLemon_35 Start: 29827, Stop: 30672, Start Num: 43
Candidate Starts for BarretLemon_35:
(Start: 43 @29827 has 130 MA's), (78, 29920), (79, 29923), (85, 29944), (91, 29974), (112, 30052), (121, 30109), (137, 30157), (147, 30208), (148, 30211), (150, 30226), (162, 30274), (167, 30292), (182, 30352), (189, 30394), (194, 30433), (196, 30451), (199, 30469), (204, 30490), (207, 30508), (233, 30589), (236, 30595),

Gene: Barsten_52 Start: 43289, Stop: 44287, Start Num: 42
Candidate Starts for Barsten_52:
(29, 43238), (Start: 42 @43289 has 9 MA's), (Start: 61 @43325 has 19 MA's), (78, 43376), (80, 43382), (85, 43400), (91, 43430), (108, 43493), (112, 43508), (128, 43589), (133, 43604), (138, 43628), (142, 43652), (175, 43799), (182, 43832), (184, 43847), (196, 43916), (198, 43931), (216, 43988), (221, 44003), (267, 44180), (275, 44252),

Gene: Bartholomew_46 Start: 32543, Stop: 33535, Start Num: 57
Candidate Starts for Bartholomew_46:
(4, 32222), (17, 32390), (30, 32453), (Start: 57 @32543 has 57 MA's), (Start: 63 @32558 has 1 MA's), (78, 32606), (90, 32657), (114, 32753), (122, 32792), (155, 32927), (181, 33038), (182, 33041), (188, 33080), (194, 33104), (196, 33122), (205, 33167), (218, 33197), (221, 33209), (257, 33353), (271, 33452), (275, 33500), (277, 33524),

Gene: Basilisk_39 Start: 26840, Stop: 27646, Start Num: 41
Candidate Starts for Basilisk_39:
(Start: 41 @26840 has 23 MA's), (75, 26936), (78, 26945), (86, 26981), (91, 26999), (170, 27374), (182, 27419), (196, 27500), (227, 27611), (228, 27614),

Gene: Baumdotcom_48 Start: 42032, Stop: 43054, Start Num: 43

Candidate Starts for Baumdotcom_48:
(Start: 43 @42032 has 130 MA's), (Start: 61 @42068 has 19 MA's), (78, 42122), (85, 42146), (91, 42176), (99, 42206), (108, 42239), (112, 42254), (128, 42335), (140, 42383), (142, 42398), (143, 42401), (175, 42545), (182, 42578), (184, 42593), (196, 42662), (198, 42677), (216, 42734), (221, 42749),

Gene: Beans_33 Start: 29523, Stop: 30368, Start Num: 43
Candidate Starts for Beans_33:
(Start: 43 @29523 has 130 MA's), (78, 29610), (83, 29628), (85, 29634), (88, 29655), (112, 29742), (121, 29799), (137, 29847), (162, 29964), (182, 30042), (186, 30069), (189, 30084), (194, 30123), (196, 30141), (199, 30159), (204, 30180), (207, 30198),

Gene: Bedetta_46 Start: 26237, Stop: 27031, Start Num: 45
Candidate Starts for Bedetta_46:
(Start: 45 @26237 has 29 MA's), (78, 26330), (86, 26366), (91, 26384), (100, 26417), (118, 26501), (147, 26648), (148, 26651), (172, 26765), (184, 26819), (196, 26885), (206, 26939), (225, 26984), (228, 26999),

Gene: Belphegor_49 Start: 43122, Stop: 44186, Start Num: 43
Candidate Starts for Belphegor_49:
(Start: 43 @43122 has 130 MA's), (70, 43188), (77, 43206), (78, 43209), (85, 43233), (86, 43245), (91, 43263), (96, 43284), (111, 43338), (112, 43341), (117, 43374), (175, 43632), (178, 43653), (182, 43665), (184, 43680), (196, 43761), (198, 43776), (207, 43818), (209, 43821), (221, 43848), (244, 43959), (264, 44040), (272, 44112), (275, 44148),

Gene: Bhagsy_47 Start: 32535, Stop: 33509, Start Num: 57
Candidate Starts for Bhagsy_47:
(Start: 57 @32535 has 57 MA's), (Start: 63 @32553 has 1 MA's), (78, 32601), (90, 32652), (94, 32667), (96, 32676), (122, 32787), (155, 32922), (181, 33033), (182, 33036), (188, 33075), (194, 33099), (196, 33117), (205, 33162), (218, 33192), (221, 33204), (236, 33261), (257, 33330), (271, 33429), (275, 33477),

Gene: Bibble12_45 Start: 26085, Stop: 26879, Start Num: 45
Candidate Starts for Bibble12_45:
(Start: 45 @26085 has 29 MA's), (78, 26178), (86, 26214), (91, 26232), (100, 26265), (118, 26349), (147, 26496), (148, 26499), (172, 26613), (184, 26667), (196, 26733), (206, 26787), (225, 26832), (228, 26847),

Gene: Bibwit_49 Start: 42164, Stop: 43165, Start Num: 43
Candidate Starts for Bibwit_49:
(7, 41921), (15, 42023), (Start: 31 @42110 has 1 MA's), (Start: 43 @42164 has 130 MA's), (Start: 61 @42200 has 19 MA's), (78, 42254), (85, 42278), (91, 42308), (99, 42338), (108, 42371), (112, 42386), (140, 42515), (142, 42530), (143, 42533), (175, 42677), (182, 42710), (184, 42725), (196, 42794), (197, 42800), (198, 42809), (216, 42866), (221, 42881),

Gene: BigDome_35 Start: 29819, Stop: 30664, Start Num: 43
Candidate Starts for BigDome_35:
(Start: 43 @29819 has 130 MA's), (78, 29912), (79, 29915), (85, 29936), (91, 29966), (112, 30044), (121, 30101), (137, 30149), (147, 30200), (148, 30203), (150, 30218), (162, 30266), (167, 30284), (182, 30344), (189, 30386), (194, 30425), (196, 30443), (199, 30461), (204, 30482), (207, 30500), (221, 30530), (230, 30569), (233, 30581), (236, 30587),

Gene: BigHunkinEater_53 Start: 42843, Stop: 43886, Start Num: 43

Candidate Starts for BigHunkinEater_53:
(Start: 43 @42843 has 130 MA's), (78, 42933), (85, 42957), (86, 42969), (91, 42987), (112, 43065), (117, 43098), (159, 43272), (175, 43338), (184, 43386), (196, 43458), (198, 43473), (203, 43494), (207, 43515), (209, 43518), (240, 43623), (244, 43656), (249, 43668), (272, 43818), (275, 43854),

Gene: BigNuz_48 Start: 34451, Stop: 35503, Start Num: 53
Candidate Starts for BigNuz_48:
(Start: 45 @34433 has 29 MA's), (Start: 53 @34451 has 4 MA's), (66, 34490), (78, 34526), (85, 34547), (86, 34559), (93, 34586), (122, 34739), (128, 34766), (138, 34805), (154, 34886), (155, 34892), (175, 34967), (181, 34994), (196, 35075), (201, 35102), (256, 35318), (257, 35324), (271, 35423), (275, 35471),

Gene: Bizzy_50 Start: 42320, Stop: 43342, Start Num: 43
Candidate Starts for Bizzy_50:
(Start: 43 @42320 has 130 MA's), (Start: 61 @42356 has 19 MA's), (78, 42410), (85, 42434), (91, 42464), (99, 42494), (108, 42527), (112, 42542), (128, 42623), (140, 42671), (142, 42686), (143, 42689), (175, 42833), (182, 42866), (184, 42881), (196, 42950), (198, 42965), (216, 43022), (221, 43037),

Gene: Bluvara_53 Start: 38043, Stop: 39089, Start Num: 43
Candidate Starts for Bluvara_53:
(Start: 43 @38043 has 130 MA's), (50, 38055), (75, 38121), (78, 38130), (85, 38154), (88, 38175), (93, 38193), (94, 38196), (96, 38205), (108, 38247), (112, 38262), (182, 38589), (184, 38604), (189, 38631), (196, 38685), (198, 38700), (202, 38715), (204, 38724), (225, 38784), (231, 38811), (236, 38829), (247, 38883), (255, 38904), (257, 38910), (275, 39057),

Gene: BobBob_50 Start: 42507, Stop: 43514, Start Num: 39
Candidate Starts for BobBob_50:
(Start: 39 @42507 has 8 MA's), (Start: 42 @42516 has 9 MA's), (Start: 61 @42552 has 19 MA's), (78, 42603), (80, 42609), (85, 42627), (91, 42657), (108, 42720), (112, 42735), (121, 42786), (140, 42864), (175, 43026), (182, 43059), (184, 43074), (196, 43143), (198, 43158), (216, 43215), (221, 43230), (267, 43407), (275, 43479),

Gene: Bogie_50 Start: 34801, Stop: 35775, Start Num: 57
Candidate Starts for Bogie_50:
(Start: 57 @34801 has 57 MA's), (Start: 63 @34819 has 1 MA's), (78, 34867), (90, 34918), (96, 34942), (122, 35053), (155, 35188), (181, 35299), (182, 35302), (188, 35341), (194, 35365), (196, 35383), (205, 35428), (218, 35458), (221, 35470), (236, 35527), (257, 35596), (271, 35695), (275, 35743),

Gene: Bolt007_38 Start: 30497, Stop: 31360, Start Num: 41
Candidate Starts for Bolt007_38:
(Start: 41 @30497 has 23 MA's), (78, 30587), (85, 30611), (112, 30719), (137, 30824), (162, 30944), (196, 31121), (204, 31160), (206, 31175), (222, 31214), (239, 31277),

Gene: Bosection6_46 Start: 32109, Stop: 33173, Start Num: 43
Candidate Starts for Bosection6_46:
(1, 31737), (18, 31995), (Start: 43 @32109 has 130 MA's), (50, 32121), (75, 32187), (76, 32190), (78, 32196), (85, 32220), (88, 32241), (90, 32247), (93, 32259), (94, 32262), (96, 32271), (108, 32313), (112, 32328), (150, 32520), (169, 32601), (172, 32613), (175, 32622), (182, 32655), (184, 32670), (189, 32697), (196, 32751), (198, 32766), (202, 32781), (204, 32790), (213, 32820), (221, 32838), (222, 32844), (236, 32895), (246, 32952), (255, 32988), (257, 32994), (270, 33084), (271, 33093), (275, 33141), (276, 33150),

Gene: BossLady_35 Start: 29796, Stop: 30644, Start Num: 43
Candidate Starts for BossLady_35:
(Start: 43 @29796 has 130 MA's), (78, 29886), (79, 29889), (85, 29910), (90, 29937), (91, 29940), (112, 30018), (121, 30075), (137, 30123), (147, 30174), (148, 30177), (162, 30240), (167, 30258), (182, 30318), (189, 30360), (194, 30399), (196, 30417), (199, 30435), (204, 30456), (207, 30474), (221, 30504), (233, 30555), (254, 30621),

Gene: Brandonk123_53 Start: 43467, Stop: 44465, Start Num: 43
Candidate Starts for Brandonk123_53:
(15, 43326), (Start: 31 @43413 has 1 MA's), (Start: 43 @43467 has 130 MA's), (Start: 61 @43503 has 19 MA's), (78, 43554), (80, 43560), (85, 43578), (91, 43608), (108, 43671), (112, 43686), (128, 43767), (133, 43782), (138, 43806), (142, 43830), (151, 43878), (175, 43977), (182, 44010), (184, 44025), (196, 44094), (198, 44109), (216, 44166), (221, 44181), (267, 44358), (275, 44430),

Gene: Brent_33 Start: 29486, Stop: 30331, Start Num: 43
Candidate Starts for Brent_33:
(Start: 43 @29486 has 130 MA's), (78, 29576), (83, 29594), (85, 29600), (88, 29621), (95, 29648), (112, 29708), (121, 29765), (137, 29813), (162, 29930), (182, 30008), (186, 30035), (189, 30050), (194, 30089), (196, 30107), (199, 30125), (204, 30146), (207, 30164), (226, 30209),

Gene: BronnyJr_45 Start: 33039, Stop: 34031, Start Num: 57
Candidate Starts for BronnyJr_45:
(4, 32718), (17, 32886), (30, 32949), (Start: 57 @33039 has 57 MA's), (Start: 63 @33054 has 1 MA's), (78, 33102), (90, 33153), (114, 33249), (122, 33288), (155, 33423), (181, 33534), (182, 33537), (188, 33576), (194, 33600), (196, 33618), (205, 33663), (218, 33693), (221, 33705), (257, 33849), (271, 33948), (275, 33996), (277, 34020),

Gene: Brujita_49 Start: 34787, Stop: 35854, Start Num: 43
Candidate Starts for Brujita_49:
(Start: 43 @34787 has 130 MA's), (50, 34799), (75, 34865), (78, 34874), (85, 34898), (88, 34919), (90, 34925), (94, 34940), (96, 34949), (108, 34991), (112, 35006), (128, 35093), (172, 35291), (182, 35333), (184, 35348), (189, 35375), (193, 35396), (196, 35429), (198, 35444), (202, 35459), (204, 35468), (213, 35498), (221, 35516), (222, 35522), (231, 35555), (236, 35573), (256, 35666), (257, 35672), (271, 35771), (275, 35819), (277, 35843),

Gene: Brusacoram_46 Start: 32536, Stop: 33510, Start Num: 57
Candidate Starts for Brusacoram_46:
(Start: 57 @32536 has 57 MA's), (Start: 63 @32554 has 1 MA's), (78, 32602), (90, 32653), (94, 32668), (96, 32677), (122, 32788), (155, 32923), (181, 33034), (182, 33037), (188, 33076), (194, 33100), (196, 33118), (205, 33163), (218, 33193), (221, 33205), (236, 33262), (257, 33331), (271, 33430), (275, 33478),

Gene: BrutonGaster_74 Start: 51893, Stop: 52576, Start Num: 61
Candidate Starts for BrutonGaster_74:
(Start: 61 @51893 has 19 MA's), (84, 51980), (87, 52001), (92, 52019), (97, 52037), (109, 52088), (135, 52178), (141, 52211), (156, 52289), (165, 52319), (169, 52346), (179, 52391), (196, 52472), (200, 52496), (214, 52541), (224, 52571),

Gene: Brynnie_38 Start: 26718, Stop: 27524, Start Num: 41
Candidate Starts for Brynnie_38:
(Start: 41 @26718 has 23 MA's), (75, 26814), (78, 26823), (86, 26859), (91, 26877), (134, 27069), (170, 27252), (196, 27378), (227, 27489),

Gene: Bubbykins_55 Start: 42381, Stop: 43304, Start Num: 55
Candidate Starts for Bubbykins_55:
(55, 42381), (82, 42462), (102, 42552), (131, 42672), (132, 42678), (147, 42756), (155, 42795), (159, 42810), (170, 42870), (175, 42888), (185, 42945), (188, 42960), (196, 43008), (204, 43047), (218, 43089), (248, 43209),

Gene: Bumble_35 Start: 28079, Stop: 28930, Start Num: 41
Candidate Starts for Bumble_35:
(Start: 41 @28079 has 23 MA's), (78, 28169), (85, 28193), (112, 28301), (137, 28406), (172, 28565), (182, 28604), (196, 28685), (204, 28724), (258, 28919),

Gene: Bunnies_47 Start: 32550, Stop: 33524, Start Num: 57
Candidate Starts for Bunnies_47:
(Start: 57 @32550 has 57 MA's), (Start: 63 @32568 has 1 MA's), (78, 32616), (90, 32667), (94, 32682), (96, 32691), (122, 32802), (155, 32937), (181, 33048), (182, 33051), (188, 33090), (194, 33114), (196, 33132), (205, 33177), (218, 33207), (221, 33219), (236, 33276), (257, 33345), (271, 33444), (275, 33492),

Gene: Butters_51 Start: 34063, Stop: 35127, Start Num: 43
Candidate Starts for Butters_51:
(Start: 43 @34063 has 130 MA's), (50, 34075), (75, 34141), (78, 34150), (85, 34174), (88, 34195), (90, 34201), (94, 34216), (96, 34225), (108, 34267), (112, 34282), (128, 34369), (172, 34567), (182, 34609), (184, 34624), (189, 34651), (193, 34672), (196, 34705), (198, 34720), (202, 34735), (204, 34744), (213, 34774), (221, 34792), (222, 34798), (231, 34831), (236, 34849), (256, 34942), (257, 34948), (270, 35038), (271, 35047), (275, 35095), (276, 35104),

Gene: CactusJack_46 Start: 32800, Stop: 33774, Start Num: 57
Candidate Starts for CactusJack_46:
(Start: 57 @32800 has 57 MA's), (Start: 63 @32818 has 1 MA's), (78, 32866), (90, 32917), (94, 32932), (96, 32941), (122, 33052), (155, 33187), (181, 33298), (182, 33301), (188, 33340), (194, 33364), (196, 33382), (205, 33427), (218, 33457), (221, 33469), (236, 33526), (257, 33595), (271, 33694), (275, 33742),

Gene: Cafasso_40 Start: 33411, Stop: 34295, Start Num: 48
Candidate Starts for Cafasso_40:
(Start: 48 @33411 has 5 MA's), (71, 33483), (78, 33501), (81, 33513), (86, 33540), (91, 33558), (112, 33645), (140, 33810), (168, 33942), (175, 33966), (180, 33993), (182, 33999), (195, 34080), (196, 34086), (204, 34125), (235, 34227),

Gene: CalWood4100_40 Start: 29991, Stop: 30845, Start Num: 41
Candidate Starts for CalWood4100_40:
(Start: 41 @29991 has 23 MA's), (78, 30081), (85, 30105), (112, 30213), (137, 30318), (162, 30438), (196, 30615), (204, 30654), (239, 30771),

Gene: Camara_41 Start: 26017, Stop: 26814, Start Num: 45
Candidate Starts for Camara_41:
(Start: 45 @26017 has 29 MA's), (78, 26113), (91, 26167), (118, 26284), (126, 26320), (147, 26431), (162, 26503), (170, 26539), (172, 26548), (196, 26668), (221, 26755),

Gene: Camster_47 Start: 32557, Stop: 33531, Start Num: 57
Candidate Starts for Camster_47:
(Start: 57 @32557 has 57 MA's), (Start: 63 @32575 has 1 MA's), (78, 32623), (90, 32674), (96, 32698), (122, 32809), (155, 32944), (181, 33055), (182, 33058), (188, 33097), (194, 33121), (196, 33139),

(205, 33184), (218, 33214), (221, 33226), (236, 33283), (257, 33352), (271, 33451), (275, 33499),

Gene: Carcharodon_48 Start: 33458, Stop: 34519, Start Num: 43
Candidate Starts for Carcharodon_48:
(Start: 43 @33458 has 130 MA's), (50, 33470), (75, 33536), (76, 33539), (78, 33545), (85, 33569), (88, 33590), (90, 33596), (93, 33608), (94, 33611), (96, 33620), (108, 33662), (112, 33677), (128, 33764), (150, 33869), (152, 33878), (162, 33923), (169, 33950), (172, 33962), (178, 33992), (182, 34004), (184, 34019), (189, 34046), (193, 34067), (196, 34100), (198, 34115), (199, 34118), (202, 34130), (204, 34139), (221, 34187), (222, 34193), (236, 34244), (240, 34268), (246, 34301), (247, 34304), (255, 34334), (257, 34340), (267, 34412), (270, 34430), (271, 34439), (275, 34487), (276, 34496),

Gene: Cardigan_110 Start: 63451, Stop: 64143, Start Num: 61
Candidate Starts for Cardigan_110:
(Start: 61 @63451 has 19 MA's), (75, 63505), (84, 63538), (92, 63577), (102, 63613), (104, 63622), (109, 63646), (111, 63655), (112, 63658), (137, 63754), (146, 63796), (148, 63808), (160, 63865), (167, 63901), (174, 63925), (179, 63952), (181, 63958), (196, 64033), (204, 64072), (208, 64093),

Gene: ChadMasterC_52 Start: 44688, Stop: 45686, Start Num: 42
Candidate Starts for ChadMasterC_52:
(29, 44637), (Start: 42 @44688 has 9 MA's), (Start: 61 @44724 has 19 MA's), (78, 44775), (80, 44781), (85, 44799), (91, 44829), (108, 44892), (112, 44907), (128, 44988), (138, 45027), (142, 45051), (175, 45198), (182, 45231), (184, 45246), (196, 45315), (198, 45330), (216, 45387), (221, 45402), (267, 45579), (275, 45651),

Gene: Charlie_48 Start: 31920, Stop: 32912, Start Num: 57
Candidate Starts for Charlie_48:
(4, 31599), (17, 31767), (30, 31830), (Start: 57 @31920 has 57 MA's), (Start: 63 @31935 has 1 MA's), (78, 31983), (90, 32034), (114, 32130), (122, 32169), (155, 32304), (181, 32415), (182, 32418), (188, 32457), (194, 32481), (196, 32499), (205, 32544), (218, 32574), (221, 32586), (257, 32730), (271, 32829), (275, 32877), (277, 32901),

Gene: Charming_52 Start: 42946, Stop: 43956, Start Num: 39
Candidate Starts for Charming_52:
(Start: 39 @42946 has 8 MA's), (Start: 42 @42955 has 9 MA's), (Start: 61 @42991 has 19 MA's), (78, 43045), (80, 43051), (85, 43069), (91, 43099), (108, 43162), (112, 43177), (128, 43258), (142, 43321), (175, 43468), (182, 43501), (184, 43516), (196, 43585), (198, 43600), (216, 43657), (221, 43672), (265, 43837), (275, 43921),

Gene: Che9c_61 Start: 43643, Stop: 44704, Start Num: 53
Candidate Starts for Che9c_61:
(Start: 45 @43625 has 29 MA's), (Start: 53 @43643 has 4 MA's), (73, 43703), (76, 43712), (78, 43718), (85, 43739), (86, 43751), (93, 43778), (122, 43931), (128, 43958), (154, 44078), (160, 44105), (175, 44159), (181, 44186), (185, 44213), (196, 44267), (201, 44294), (256, 44519), (257, 44525), (276, 44681),

Gene: Chewbacca_50 Start: 33458, Stop: 34519, Start Num: 43
Candidate Starts for Chewbacca_50:
(Start: 43 @33458 has 130 MA's), (50, 33470), (75, 33536), (76, 33539), (78, 33545), (85, 33569), (88, 33590), (90, 33596), (93, 33608), (94, 33611), (96, 33620), (108, 33662), (112, 33677), (128, 33764), (150, 33869), (152, 33878), (162, 33923), (169, 33950), (172, 33962), (178, 33992), (182, 34004), (184, 34019), (189, 34046), (193, 34067), (196, 34100), (198, 34115), (199, 34118), (202, 34130), (204, 34139), (221, 34187), (222, 34193), (236, 34244), (240, 34268), (246, 34301), (247, 34304), (255, 34334), (257, 34340), (267, 34412), (270, 34430), (271, 34439), (275, 34487), (276, 34496),

Gene: Chickaboom_40 Start: 26337, Stop: 27143, Start Num: 41
Candidate Starts for Chickaboom_40:
(Start: 41 @26337 has 23 MA's), (75, 26433), (78, 26442), (91, 26496), (101, 26535), (112, 26574), (170, 26871), (196, 26997), (227, 27108),

Gene: Chickadee_47 Start: 39366, Stop: 40424, Start Num: 43
Candidate Starts for Chickadee_47:
(36, 39336), (Start: 43 @39366 has 130 MA's), (78, 39453), (85, 39477), (91, 39507), (108, 39570), (112, 39585), (117, 39618), (142, 39729), (148, 39756), (159, 39810), (175, 39876), (178, 39897), (182, 39909), (184, 39924), (196, 40008), (199, 40026), (203, 40044), (207, 40065), (221, 40095), (244, 40206), (265, 40311), (268, 40332), (274, 40389), (275, 40395),

Gene: Chicken_39 Start: 26680, Stop: 27486, Start Num: 41
Candidate Starts for Chicken_39:
(Start: 41 @26680 has 23 MA's), (75, 26776), (78, 26785), (91, 26839), (136, 27040), (152, 27133), (170, 27214), (176, 27232), (196, 27340), (210, 27403), (225, 27439), (228, 27454),

Gene: Chipper1996_470 Start: 37422, Stop: 38381, Start Num: 56
Candidate Starts for Chipper1996_470:
(Start: 56 @37422 has 19 MA's), (64, 37449), (68, 37461), (77, 37494), (82, 37512), (94, 37572), (143, 37785), (146, 37797), (167, 37911), (175, 37938), (186, 37998), (196, 38058), (204, 38097), (218, 38139), (248, 38292),

Gene: Chocolat_47 Start: 37414, Stop: 38361, Start Num: 56
Candidate Starts for Chocolat_47:
(Start: 56 @37414 has 19 MA's), (77, 37474), (115, 37648), (143, 37765), (146, 37777), (153, 37816), (166, 37873), (167, 37891), (168, 37894), (175, 37918), (177, 37933), (180, 37945), (196, 38038), (204, 38077), (218, 38119), (248, 38272),

Gene: Chubbello_46 Start: 32539, Stop: 33531, Start Num: 57
Candidate Starts for Chubbello_46:
(4, 32218), (17, 32386), (30, 32449), (Start: 57 @32539 has 57 MA's), (Start: 63 @32554 has 1 MA's), (78, 32602), (90, 32653), (114, 32749), (122, 32788), (155, 32923), (181, 33034), (182, 33037), (188, 33076), (194, 33100), (196, 33118), (205, 33163), (218, 33193), (221, 33205), (257, 33349), (271, 33448), (275, 33496), (277, 33520),

Gene: Chubster_47 Start: 37334, Stop: 38281, Start Num: 56
Candidate Starts for Chubster_47:
(Start: 56 @37334 has 19 MA's), (77, 37394), (115, 37568), (143, 37685), (146, 37697), (153, 37736), (166, 37793), (167, 37811), (168, 37814), (175, 37838), (177, 37853), (180, 37865), (196, 37958), (204, 37997), (218, 38039), (248, 38192),

Gene: Circuit_35 Start: 29044, Stop: 29892, Start Num: 41
Candidate Starts for Circuit_35:
(Start: 41 @29044 has 23 MA's), (78, 29134), (85, 29158), (112, 29266), (137, 29371), (172, 29530), (182, 29569), (196, 29650), (204, 29689),

Gene: ClubL_91 Start: 55523, Stop: 56248, Start Num: 61
Candidate Starts for ClubL_91:
(Start: 61 @55523 has 19 MA's), (87, 55631), (92, 55649), (96, 55664), (97, 55667), (109, 55718), (120, 55781), (135, 55808), (141, 55841), (148, 55880), (156, 55919), (165, 55949), (169, 55976), (179, 56021), (196, 56102), (200, 56126), (222, 56201),

Gene: Colossa_38 Start: 30320, Stop: 31258, Start Num: 44
Candidate Starts for Colossa_38:
(44, 30320), (54, 30338), (67, 30377), (76, 30413), (91, 30476), (110, 30557), (112, 30563), (116, 30587), (140, 30734), (155, 30812), (161, 30836), (167, 30866), (175, 30893), (181, 30923), (182, 30926), (196, 31025), (201, 31052), (204, 31064), (234, 31163), (239, 31187),

Gene: Colucci_47 Start: 37135, Stop: 38091, Start Num: 56
Candidate Starts for Colucci_47:
(23, 37021), (Start: 56 @37135 has 19 MA's), (64, 37162), (68, 37174), (77, 37207), (82, 37225), (94, 37285), (143, 37498), (145, 37507), (146, 37510), (167, 37624), (175, 37651), (186, 37711), (196, 37771), (204, 37810), (218, 37852), (223, 37876),

Gene: Colusalem_42 Start: 26067, Stop: 26861, Start Num: 45
Candidate Starts for Colusalem_42:
(Start: 45 @26067 has 29 MA's), (78, 26160), (86, 26196), (91, 26214), (100, 26247), (109, 26280), (118, 26331), (147, 26478), (148, 26481), (172, 26595), (184, 26649), (196, 26715), (206, 26769), (225, 26814), (228, 26829),

Gene: Conboy_47 Start: 37562, Stop: 38509, Start Num: 56
Candidate Starts for Conboy_47:
(Start: 56 @37562 has 19 MA's), (77, 37622), (115, 37796), (143, 37913), (146, 37925), (153, 37964), (166, 38021), (167, 38039), (168, 38042), (175, 38066), (177, 38081), (180, 38093), (196, 38186), (204, 38225), (218, 38267), (248, 38420),

Gene: Coral_41 Start: 25938, Stop: 26732, Start Num: 45
Candidate Starts for Coral_41:
(Start: 45 @25938 has 29 MA's), (78, 26031), (86, 26067), (91, 26085), (100, 26118), (118, 26202), (147, 26349), (148, 26352), (172, 26466), (184, 26520), (196, 26586), (206, 26640), (225, 26685), (228, 26700),

Gene: Cote_43 Start: 26415, Stop: 27209, Start Num: 45
Candidate Starts for Cote_43:
(Start: 45 @26415 has 29 MA's), (78, 26508), (86, 26544), (91, 26562), (100, 26595), (118, 26679), (147, 26826), (148, 26829), (172, 26943), (184, 26997), (196, 27063), (206, 27117), (225, 27162), (228, 27177),

Gene: Cucurbita_92 Start: 57344, Stop: 58069, Start Num: 61
Candidate Starts for Cucurbita_92:
(6, 57044), (8, 57071), (9, 57074), (10, 57077), (28, 57239), (Start: 61 @57344 has 19 MA's), (87, 57452), (92, 57470), (96, 57485), (97, 57488), (109, 57539), (120, 57602), (135, 57629), (141, 57662), (148, 57701), (156, 57740), (165, 57770), (169, 57797), (179, 57842), (196, 57923), (200, 57947), (214, 57992), (222, 58022),

Gene: Culver_92 Start: 55420, Stop: 56145, Start Num: 61
Candidate Starts for Culver_92:
(Start: 61 @55420 has 19 MA's), (87, 55528), (92, 55546), (96, 55561), (97, 55564), (109, 55615), (120, 55678), (135, 55705), (141, 55738), (148, 55777), (156, 55816), (165, 55846), (169, 55873), (196, 55999), (200, 56023), (222, 56098),

Gene: Cygnet_41 Start: 26877, Stop: 27689, Start Num: 41
Candidate Starts for Cygnet_41:

(Start: 41 @26877 has 23 MA's), (Start: 61 @26922 has 19 MA's), (65, 26940), (78, 26985), (91, 27039), (94, 27051), (118, 27156), (124, 27186), (171, 27417), (196, 27543), (221, 27630),

Gene: DanHam62_41 Start: 26014, Stop: 26811, Start Num: 45
Candidate Starts for DanHam62_41:
(Start: 45 @26014 has 29 MA's), (78, 26110), (91, 26164), (118, 26281), (126, 26317), (147, 26428), (162, 26500), (170, 26536), (172, 26545), (196, 26665), (201, 26692), (221, 26752),

Gene: Daob_43 Start: 26423, Stop: 27217, Start Num: 45
Candidate Starts for Daob_43:
(Start: 45 @26423 has 29 MA's), (78, 26516), (86, 26552), (91, 26570), (100, 26603), (118, 26687), (147, 26834), (148, 26837), (172, 26951), (177, 26975), (196, 27071), (206, 27125), (228, 27185),

Gene: Daredevil_84 Start: 58699, Stop: 57869, Start Num: 47
Candidate Starts for Daredevil_84:
(Start: 47 @58699 has 7 MA's), (75, 58609), (92, 58537), (109, 58468), (130, 58402), (137, 58360), (169, 58195), (174, 58177), (196, 58069), (200, 58045), (233, 57931), (243, 57877),

Gene: DatBoi_90 Start: 62181, Stop: 61351, Start Num: 47
Candidate Starts for DatBoi_90:
(Start: 47 @62181 has 7 MA's), (85, 62058), (92, 62022), (109, 61953), (137, 61845), (169, 61680), (174, 61662), (187, 61593), (196, 61554),

Gene: Delrey21_51 Start: 44353, Stop: 45396, Start Num: 43
Candidate Starts for Delrey21_51:
(Start: 43 @44353 has 130 MA's), (78, 44443), (85, 44467), (86, 44479), (112, 44575), (159, 44782), (175, 44848), (184, 44896), (196, 44968), (198, 44983), (203, 45004), (207, 45025), (209, 45028), (221, 45055), (240, 45133), (244, 45166), (249, 45178), (268, 45301), (272, 45328), (275, 45364),

Gene: Derg_45 Start: 41912, Stop: 42934, Start Num: 43
Candidate Starts for Derg_45:
(Start: 43 @41912 has 130 MA's), (Start: 61 @41948 has 19 MA's), (78, 42002), (85, 42026), (91, 42056), (99, 42086), (108, 42119), (112, 42134), (128, 42215), (140, 42263), (142, 42278), (143, 42281), (175, 42425), (182, 42458), (184, 42473), (196, 42542), (198, 42557), (216, 42614),

Gene: Dexdert_48 Start: 39661, Stop: 40713, Start Num: 43
Candidate Starts for Dexdert_48:
(Start: 43 @39661 has 130 MA's), (78, 39748), (85, 39772), (91, 39802), (108, 39865), (112, 39880), (117, 39913), (142, 40024), (148, 40051), (159, 40105), (175, 40171), (178, 40192), (182, 40204), (184, 40219), (196, 40303), (199, 40321), (203, 40339), (221, 40390), (244, 40492), (265, 40600), (268, 40621), (275, 40684),

Gene: DoctorFroggo_51 Start: 44353, Stop: 45396, Start Num: 43
Candidate Starts for DoctorFroggo_51:
(Start: 43 @44353 has 130 MA's), (78, 44443), (85, 44467), (86, 44479), (112, 44575), (159, 44782), (175, 44848), (184, 44896), (196, 44968), (198, 44983), (203, 45004), (207, 45025), (209, 45028), (221, 45055), (240, 45133), (244, 45166), (249, 45178), (268, 45301), (272, 45328), (275, 45364),

Gene: Donovan_47 Start: 32566, Stop: 33558, Start Num: 57
Candidate Starts for Donovan_47:
(4, 32245), (17, 32413), (30, 32476), (Start: 57 @32566 has 57 MA's), (Start: 63 @32581 has 1 MA's), (78, 32629), (90, 32680), (114, 32776), (122, 32815), (155, 32950), (181, 33061), (182, 33064), (188, 33103), (194, 33127), (196, 33145), (205, 33190), (218, 33220), (221, 33232), (257, 33376), (271,

33475), (275, 33523), (277, 33547),

Gene: Dori_64 Start: 50133, Stop: 51218, Start Num: 43
Candidate Starts for Dori_64:
(Start: 43 @50133 has 130 MA's), (Start: 59 @50169 has 1 MA's), (75, 50208), (78, 50217), (85, 50241), (88, 50262), (94, 50283), (96, 50292), (101, 50310), (106, 50343), (112, 50364), (114, 50379), (115, 50385), (118, 50406), (133, 50466), (145, 50526), (148, 50541), (163, 50613), (164, 50616), (182, 50700), (184, 50715), (189, 50742), (196, 50799), (198, 50814), (199, 50817), (202, 50829), (203, 50835), (204, 50838), (213, 50868), (221, 50886), (222, 50892), (236, 50943), (240, 50967), (246, 51000), (247, 51003), (255, 51033), (257, 51039), (263, 51072), (271, 51138), (273, 51162), (276, 51195),

Gene: Doucette_41 Start: 28699, Stop: 29496, Start Num: 42
Candidate Starts for Doucette_41:
(14, 28546), (38, 28684), (Start: 42 @28699 has 9 MA's), (49, 28711), (78, 28795), (86, 28831), (91, 28849), (93, 28858), (107, 28912), (122, 28981), (137, 29038), (138, 29041), (167, 29176), (168, 29179), (196, 29311), (201, 29338), (204, 29350), (211, 29377),

Gene: DrYang_48 Start: 39485, Stop: 40438, Start Num: 56
Candidate Starts for DrYang_48:
(Start: 56 @39485 has 19 MA's), (72, 39530), (77, 39545), (85, 39575), (115, 39719), (143, 39839), (146, 39851), (147, 39860), (167, 39965), (175, 39992), (177, 40007), (196, 40112), (204, 40151), (223, 40217),

Gene: DreamEater_53 Start: 34406, Stop: 35281, Start Num: 47
Candidate Starts for DreamEater_53:
(Start: 47 @34406 has 7 MA's), (70, 34475), (78, 34496), (86, 34532), (106, 34607), (112, 34628), (122, 34682), (164, 34847), (172, 34883), (173, 34886), (176, 34895), (181, 34919), (182, 34922), (183, 34928), (194, 34985), (196, 35003), (203, 35039), (204, 35042),

Gene: Duplicity_48 Start: 33467, Stop: 34528, Start Num: 43
Candidate Starts for Duplicity_48:
(Start: 43 @33467 has 130 MA's), (50, 33479), (75, 33545), (76, 33548), (78, 33554), (85, 33578), (88, 33599), (90, 33605), (93, 33617), (94, 33620), (96, 33629), (108, 33671), (112, 33686), (128, 33773), (150, 33878), (152, 33887), (162, 33932), (169, 33959), (172, 33971), (178, 34001), (182, 34013), (184, 34028), (189, 34055), (193, 34076), (196, 34109), (198, 34124), (199, 34127), (202, 34139), (204, 34148), (221, 34196), (222, 34202), (236, 34253), (240, 34277), (246, 34310), (247, 34313), (255, 34343), (257, 34349), (267, 34421), (270, 34439), (271, 34448), (275, 34496), (276, 34505),

Gene: Dusty_88 Start: 55039, Stop: 55764, Start Num: 61
Candidate Starts for Dusty_88:
(3, 54706), (6, 54739), (8, 54766), (9, 54769), (10, 54772), (17, 54880), (Start: 61 @55039 has 19 MA's), (87, 55147), (92, 55165), (96, 55180), (97, 55183), (109, 55234), (120, 55297), (135, 55324), (141, 55357), (148, 55396), (156, 55435), (165, 55465), (169, 55492), (179, 55537), (196, 55618), (200, 55642), (214, 55687), (222, 55717),

Gene: Dynamo_47 Start: 33026, Stop: 34018, Start Num: 57
Candidate Starts for Dynamo_47:
(4, 32705), (17, 32873), (30, 32936), (Start: 57 @33026 has 57 MA's), (Start: 63 @33041 has 1 MA's), (78, 33089), (90, 33140), (114, 33236), (122, 33275), (155, 33410), (181, 33521), (182, 33524), (188, 33563), (194, 33587), (196, 33605), (205, 33650), (218, 33680), (221, 33692), (257, 33836), (271, 33935), (275, 33983), (277, 34007),

Gene: EGUnicorn_46 Start: 32155, Stop: 33219, Start Num: 43
Candidate Starts for EGUnicorn_46:
(18, 32041), (Start: 43 @32155 has 130 MA's), (50, 32167), (75, 32233), (76, 32236), (78, 32242), (85, 32266), (88, 32287), (90, 32293), (93, 32305), (94, 32308), (96, 32317), (108, 32359), (112, 32374), (150, 32566), (169, 32647), (172, 32659), (175, 32668), (182, 32701), (184, 32716), (189, 32743), (196, 32797), (198, 32812), (202, 32827), (204, 32836), (213, 32866), (221, 32884), (222, 32890), (236, 32941), (246, 32998), (255, 33034), (257, 33040), (267, 33112), (270, 33130), (271, 33139), (275, 33187), (276, 33196),

Gene: EMoore_47 Start: 42468, Stop: 43541, Start Num: 43
Candidate Starts for EMoore_47:
(Start: 43 @42468 has 130 MA's), (Start: 61 @42504 has 19 MA's), (78, 42555), (85, 42579), (88, 42600), (91, 42609), (108, 42672), (112, 42687), (117, 42720), (137, 42804), (175, 42978), (178, 42999), (184, 43026), (196, 43107), (198, 43122), (207, 43164), (209, 43167), (221, 43194), (244, 43305), (264, 43401), (272, 43473), (275, 43509),

Gene: EastWest_36 Start: 29042, Stop: 29902, Start Num: 43
Candidate Starts for EastWest_36:
(Start: 43 @29042 has 130 MA's), (69, 29114), (79, 29150), (83, 29165), (85, 29171), (96, 29222), (112, 29279), (137, 29384), (147, 29435), (148, 29438), (162, 29501), (167, 29519), (182, 29579), (189, 29621), (194, 29660), (196, 29678), (199, 29696), (201, 29705), (204, 29717), (213, 29747), (221, 29765),

Gene: EdgarPoe_47 Start: 37562, Stop: 38509, Start Num: 56
Candidate Starts for EdgarPoe_47:
(Start: 56 @37562 has 19 MA's), (77, 37622), (115, 37796), (143, 37913), (146, 37925), (153, 37964), (166, 38021), (167, 38039), (168, 38042), (175, 38066), (177, 38081), (180, 38093), (196, 38186), (204, 38225), (218, 38267), (248, 38420),

Gene: EdmundFerry_46 Start: 39437, Stop: 40492, Start Num: 43
Candidate Starts for EdmundFerry_46:
(36, 39407), (Start: 43 @39437 has 130 MA's), (78, 39524), (85, 39548), (91, 39578), (108, 39641), (112, 39656), (117, 39689), (142, 39800), (148, 39827), (159, 39881), (175, 39947), (178, 39968), (182, 39980), (184, 39995), (196, 40079), (199, 40097), (203, 40115), (207, 40136), (221, 40166), (244, 40274), (265, 40379), (268, 40400), (274, 40457), (275, 40463),

Gene: Eesa_38 Start: 27219, Stop: 28025, Start Num: 41
Candidate Starts for Eesa_38:
(Start: 41 @27219 has 23 MA's), (75, 27315), (78, 27324), (86, 27360), (91, 27378), (136, 27579), (152, 27672), (170, 27753), (176, 27771), (196, 27879), (228, 27993),

Gene: Engineer_92 Start: 56810, Stop: 57535, Start Num: 61
Candidate Starts for Engineer_92:
(6, 56510), (8, 56537), (9, 56540), (10, 56543), (28, 56705), (Start: 61 @56810 has 19 MA's), (87, 56918), (92, 56936), (96, 56951), (97, 56954), (109, 57005), (120, 57068), (135, 57095), (141, 57128), (148, 57167), (156, 57206), (165, 57236), (169, 57263), (179, 57308), (196, 57389), (200, 57413), (214, 57458), (222, 57488),

Gene: Etoile_46 Start: 32543, Stop: 33535, Start Num: 57
Candidate Starts for Etoile_46:
(4, 32222), (17, 32390), (30, 32453), (Start: 57 @32543 has 57 MA's), (Start: 63 @32558 has 1 MA's), (78, 32606), (90, 32657), (114, 32753), (122, 32792), (155, 32927), (181, 33038), (182, 33041), (188, 33080), (194, 33104), (196, 33122), (205, 33167), (218, 33197), (221, 33209), (257, 33353), (271,

33452), (275, 33500), (277, 33524),

Gene: Fingolfin_41 Start: 26017, Stop: 26814, Start Num: 45
Candidate Starts for Fingolfin_41:
(Start: 45 @26017 has 29 MA's), (78, 26113), (91, 26167), (118, 26284), (126, 26320), (147, 26431), (162, 26503), (170, 26539), (172, 26548), (196, 26668), (201, 26695), (221, 26755),

Gene: FirstPlacePfu_47 Start: 32575, Stop: 33567, Start Num: 57
Candidate Starts for FirstPlacePfu_47:
(17, 32422), (30, 32485), (Start: 57 @32575 has 57 MA's), (Start: 63 @32590 has 1 MA's), (78, 32638), (90, 32689), (114, 32785), (122, 32824), (155, 32959), (181, 33070), (182, 33073), (188, 33112), (194, 33136), (196, 33154), (205, 33199), (218, 33229), (221, 33241), (257, 33385), (271, 33484), (275, 33532), (277, 33556),

Gene: Fishburne_46 Start: 32543, Stop: 33535, Start Num: 57
Candidate Starts for Fishburne_46:
(4, 32222), (17, 32390), (30, 32453), (Start: 57 @32543 has 57 MA's), (Start: 63 @32558 has 1 MA's), (78, 32606), (90, 32657), (114, 32753), (122, 32792), (155, 32927), (181, 33038), (182, 33041), (188, 33080), (194, 33104), (196, 33122), (205, 33167), (218, 33197), (221, 33209), (257, 33353), (271, 33452), (275, 33500), (277, 33524),

Gene: Fitzgerald_50 Start: 43949, Stop: 44947, Start Num: 42
Candidate Starts for Fitzgerald_50:
(19, 43865), (24, 43886), (Start: 42 @43949 has 9 MA's), (Start: 61 @43985 has 19 MA's), (78, 44036), (80, 44042), (85, 44060), (91, 44090), (108, 44153), (112, 44168), (142, 44312), (175, 44459), (182, 44492), (184, 44507), (196, 44576), (198, 44591), (216, 44648), (221, 44663), (267, 44840), (275, 44912),

Gene: Flatwoods_50 Start: 42261, Stop: 43283, Start Num: 43
Candidate Starts for Flatwoods_50:
(Start: 43 @42261 has 130 MA's), (Start: 61 @42297 has 19 MA's), (78, 42351), (85, 42375), (91, 42405), (99, 42435), (108, 42468), (112, 42483), (128, 42564), (140, 42612), (142, 42627), (143, 42630), (175, 42774), (182, 42807), (184, 42822), (196, 42891), (198, 42906), (216, 42963), (221, 42978),

Gene: Fosterous_52 Start: 43368, Stop: 44420, Start Num: 31
Candidate Starts for Fosterous_52:
(13, 43260), (15, 43281), (Start: 31 @43368 has 1 MA's), (Start: 43 @43422 has 130 MA's), (Start: 61 @43458 has 19 MA's), (78, 43509), (80, 43515), (85, 43533), (91, 43563), (108, 43626), (112, 43641), (121, 43692), (140, 43770), (175, 43932), (182, 43965), (184, 43980), (196, 44049), (198, 44064), (216, 44121), (221, 44136), (267, 44313), (275, 44385),

Gene: Franzy_33 Start: 29485, Stop: 30330, Start Num: 43
Candidate Starts for Franzy_33:
(Start: 43 @29485 has 130 MA's), (78, 29575), (83, 29593), (85, 29599), (88, 29620), (95, 29647), (112, 29707), (121, 29764), (137, 29812), (162, 29929), (182, 30007), (186, 30034), (189, 30049), (194, 30088), (196, 30106), (199, 30124), (204, 30145), (207, 30163), (226, 30208),

Gene: FuegoCuervo_55 Start: 42559, Stop: 43557, Start Num: 42
Candidate Starts for FuegoCuervo_55:
(29, 42508), (Start: 42 @42559 has 9 MA's), (Start: 61 @42595 has 19 MA's), (78, 42646), (80, 42652), (85, 42670), (91, 42700), (108, 42763), (112, 42778), (128, 42859), (133, 42874), (142, 42922), (175, 43069), (182, 43102), (184, 43117), (196, 43186), (198, 43201), (216, 43258), (221, 43273), (267,

43450), (275, 43522),

Gene: Fulbright_47 Start: 32547, Stop: 33608, Start Num: 43
Candidate Starts for Fulbright_47:
(Start: 43 @32547 has 130 MA's), (50, 32559), (75, 32625), (76, 32628), (78, 32634), (85, 32658), (88, 32679), (90, 32685), (93, 32697), (94, 32700), (96, 32709), (108, 32751), (112, 32766), (128, 32853), (150, 32958), (152, 32967), (162, 33012), (169, 33039), (172, 33051), (178, 33081), (182, 33093), (184, 33108), (189, 33135), (193, 33156), (196, 33189), (198, 33204), (199, 33207), (202, 33219), (204, 33228), (221, 33276), (222, 33282), (236, 33333), (240, 33357), (246, 33390), (247, 33393), (255, 33423), (257, 33429), (267, 33501), (270, 33519), (271, 33528), (275, 33576), (276, 33585),

Gene: GTE6_47 Start: 39899, Stop: 40960, Start Num: 43
Candidate Starts for GTE6_47:
(36, 39869), (Start: 43 @39899 has 130 MA's), (78, 39986), (85, 40010), (91, 40040), (108, 40103), (112, 40118), (117, 40151), (142, 40262), (148, 40289), (159, 40343), (175, 40409), (178, 40430), (182, 40442), (184, 40457), (196, 40541), (199, 40559), (203, 40577), (207, 40598), (221, 40628), (244, 40739), (265, 40847), (268, 40868), (274, 40925), (275, 40931),

Gene: Gaea_49 Start: 41917, Stop: 42939, Start Num: 43
Candidate Starts for Gaea_49:
(Start: 43 @41917 has 130 MA's), (Start: 61 @41953 has 19 MA's), (78, 42007), (85, 42031), (91, 42061), (99, 42091), (108, 42124), (112, 42139), (128, 42220), (140, 42268), (142, 42283), (143, 42286), (175, 42430), (182, 42463), (184, 42478), (196, 42547), (198, 42562), (216, 42619), (221, 42634),

Gene: Galadriel_52 Start: 43406, Stop: 44413, Start Num: 39
Candidate Starts for Galadriel_52:
(Start: 39 @43406 has 8 MA's), (Start: 42 @43415 has 9 MA's), (Start: 61 @43451 has 19 MA's), (78, 43502), (80, 43508), (85, 43526), (91, 43556), (108, 43619), (112, 43634), (142, 43778), (175, 43925), (182, 43958), (184, 43973), (196, 44042), (198, 44057), (216, 44114), (221, 44129), (275, 44378),

Gene: Galaxy_38 Start: 26092, Stop: 26898, Start Num: 41
Candidate Starts for Galaxy_38:
(Start: 41 @26092 has 23 MA's), (75, 26188), (78, 26197), (91, 26251), (136, 26452), (152, 26545), (170, 26626), (196, 26752), (228, 26866),

Gene: GaloreK_46 Start: 32539, Stop: 33531, Start Num: 57
Candidate Starts for GaloreK_46:
(4, 32218), (17, 32386), (30, 32449), (Start: 57 @32539 has 57 MA's), (Start: 63 @32554 has 1 MA's), (78, 32602), (90, 32653), (114, 32749), (122, 32788), (155, 32923), (181, 33034), (182, 33037), (188, 33076), (194, 33100), (196, 33118), (205, 33163), (218, 33193), (221, 33205), (257, 33349), (271, 33448), (275, 33496), (277, 33520),

Gene: Gavriela_46 Start: 32800, Stop: 33774, Start Num: 57
Candidate Starts for Gavriela_46:
(Start: 57 @32800 has 57 MA's), (Start: 63 @32818 has 1 MA's), (78, 32866), (90, 32917), (94, 32932), (96, 32941), (122, 33052), (155, 33187), (181, 33298), (182, 33301), (188, 33340), (194, 33364), (196, 33382), (205, 33427), (218, 33457), (221, 33469), (236, 33526), (257, 33595), (271, 33694), (275, 33742),

Gene: Geeche_89 Start: 55875, Stop: 56600, Start Num: 61
Candidate Starts for Geeche_89:

(Start: 61 @55875 has 19 MA's), (87, 55983), (92, 56001), (96, 56016), (97, 56019), (109, 56070), (120, 56133), (135, 56160), (141, 56193), (148, 56232), (156, 56271), (165, 56301), (169, 56328), (179, 56373), (196, 56454), (200, 56478), (214, 56523), (222, 56553),

Gene: Geodirt_50 Start: 44037, Stop: 45035, Start Num: 42
Candidate Starts for Geodirt_50:
(19, 43953), (24, 43974), (Start: 42 @44037 has 9 MA's), (Start: 61 @44073 has 19 MA's), (78, 44124), (80, 44130), (85, 44148), (91, 44178), (108, 44241), (112, 44256), (128, 44337), (138, 44376), (142, 44400), (175, 44547), (182, 44580), (184, 44595), (196, 44664), (198, 44679), (216, 44736), (221, 44751), (267, 44928), (275, 45000),

Gene: Gex_48 Start: 33474, Stop: 34535, Start Num: 43
Candidate Starts for Gex_48:
(Start: 43 @33474 has 130 MA's), (50, 33486), (75, 33552), (76, 33555), (78, 33561), (85, 33585), (88, 33606), (90, 33612), (93, 33624), (94, 33627), (96, 33636), (108, 33678), (112, 33693), (128, 33780), (150, 33885), (152, 33894), (162, 33939), (169, 33966), (172, 33978), (178, 34008), (182, 34020), (184, 34035), (189, 34062), (193, 34083), (196, 34116), (198, 34131), (199, 34134), (202, 34146), (204, 34155), (221, 34203), (222, 34209), (236, 34260), (240, 34284), (246, 34317), (247, 34320), (255, 34350), (257, 34356), (267, 34428), (270, 34446), (271, 34455), (275, 34503), (276, 34512),

Gene: Glaske_46 Start: 32800, Stop: 33774, Start Num: 57
Candidate Starts for Glaske_46:
(Start: 57 @32800 has 57 MA's), (Start: 63 @32818 has 1 MA's), (78, 32866), (90, 32917), (94, 32932), (96, 32941), (122, 33052), (155, 33187), (181, 33298), (182, 33301), (188, 33340), (194, 33364), (196, 33382), (205, 33427), (218, 33457), (221, 33469), (236, 33526), (257, 33595), (271, 33694), (275, 33742),

Gene: Glotell_42 Start: 26173, Stop: 26970, Start Num: 45
Candidate Starts for Glotell_42:
(Start: 45 @26173 has 29 MA's), (78, 26269), (91, 26323), (118, 26440), (126, 26476), (147, 26587), (162, 26659), (170, 26695), (172, 26704), (196, 26824), (221, 26911),

Gene: Gravel_48 Start: 27192, Stop: 27998, Start Num: 41
Candidate Starts for Gravel_48:
(Start: 41 @27192 has 23 MA's), (75, 27288), (78, 27297), (86, 27333), (91, 27351), (113, 27432), (152, 27645), (170, 27726), (176, 27744), (196, 27852), (228, 27966),

Gene: GravityBall_35 Start: 29827, Stop: 30672, Start Num: 43
Candidate Starts for GravityBall_35:
(Start: 43 @29827 has 130 MA's), (78, 29920), (79, 29923), (85, 29944), (91, 29974), (112, 30052), (121, 30109), (137, 30157), (147, 30208), (148, 30211), (150, 30226), (158, 30256), (162, 30274), (167, 30292), (182, 30352), (189, 30394), (194, 30433), (196, 30451), (199, 30469), (204, 30490), (207, 30508), (230, 30577), (233, 30589), (236, 30595),

Gene: GreaseLightnin_47 Start: 32779, Stop: 33753, Start Num: 57
Candidate Starts for GreaseLightnin_47:
(Start: 57 @32779 has 57 MA's), (Start: 63 @32797 has 1 MA's), (78, 32845), (90, 32896), (96, 32920), (122, 33031), (155, 33166), (181, 33277), (182, 33280), (188, 33319), (194, 33343), (196, 33361), (205, 33406), (218, 33436), (221, 33448), (236, 33505), (257, 33574), (271, 33673), (275, 33721),

Gene: Grekaycon_35 Start: 29742, Stop: 30590, Start Num: 43
Candidate Starts for Grekaycon_35:

(Start: 43 @29742 has 130 MA's), (78, 29832), (79, 29835), (85, 29856), (90, 29883), (91, 29886), (112, 29964), (121, 30021), (137, 30069), (147, 30120), (148, 30123), (162, 30186), (167, 30204), (182, 30264), (189, 30306), (194, 30345), (196, 30363), (199, 30381), (204, 30402), (207, 30420), (221, 30450), (233, 30501), (254, 30567),

Gene: Gustavo_50 Start: 42537, Stop: 43559, Start Num: 43
Candidate Starts for Gustavo_50:
(15, 42396), (Start: 31 @42483 has 1 MA's), (Start: 40 @42531 has 2 MA's), (Start: 43 @42537 has 130 MA's), (Start: 61 @42573 has 19 MA's), (78, 42627), (85, 42651), (91, 42681), (99, 42711), (108, 42744), (112, 42759), (140, 42888), (142, 42903), (143, 42906), (175, 43050), (182, 43083), (184, 43098), (196, 43167), (197, 43173), (198, 43182), (216, 43239), (221, 43254),

Gene: HC_46 Start: 32186, Stop: 33181, Start Num: 57
Candidate Starts for HC_46:
(21, 32051), (Start: 57 @32186 has 57 MA's), (Start: 63 @32201 has 1 MA's), (78, 32249), (90, 32300), (96, 32324), (122, 32435), (155, 32570), (181, 32681), (182, 32684), (188, 32723), (194, 32747), (196, 32765), (205, 32810), (218, 32840), (221, 32852), (241, 32930), (257, 32999), (271, 33098), (275, 33146), (277, 33170),

Gene: HUHilltop_48 Start: 33058, Stop: 34032, Start Num: 57
Candidate Starts for HUHilltop_48:
(Start: 57 @33058 has 57 MA's), (Start: 63 @33076 has 1 MA's), (78, 33124), (90, 33175), (96, 33199), (122, 33310), (155, 33445), (181, 33556), (182, 33559), (188, 33598), (194, 33622), (196, 33640), (205, 33685), (218, 33715), (221, 33727), (236, 33784), (257, 33853), (271, 33952), (275, 34000),

Gene: HamCheese_41 Start: 26001, Stop: 26798, Start Num: 45
Candidate Starts for HamCheese_41:
(Start: 45 @26001 has 29 MA's), (78, 26097), (91, 26151), (118, 26268), (126, 26304), (147, 26415), (162, 26487), (170, 26523), (172, 26532), (196, 26652), (201, 26679), (221, 26739),

Gene: Hanako_52 Start: 34364, Stop: 35428, Start Num: 43
Candidate Starts for Hanako_52:
(18, 34250), (Start: 43 @34364 has 130 MA's), (50, 34376), (75, 34442), (76, 34445), (78, 34451), (85, 34475), (88, 34496), (90, 34502), (93, 34514), (94, 34517), (96, 34526), (108, 34568), (112, 34583), (150, 34775), (169, 34856), (172, 34868), (175, 34877), (182, 34910), (184, 34925), (189, 34952), (196, 35006), (198, 35021), (202, 35036), (204, 35045), (213, 35075), (221, 35093), (222, 35099), (236, 35150), (246, 35207), (255, 35243), (257, 35249), (270, 35339), (271, 35348), (275, 35396), (276, 35405),

Gene: HannahPhantana_42 Start: 26085, Stop: 26879, Start Num: 45
Candidate Starts for HannahPhantana_42:
(Start: 45 @26085 has 29 MA's), (78, 26178), (86, 26214), (91, 26232), (100, 26265), (118, 26349), (147, 26496), (148, 26499), (172, 26613), (184, 26667), (196, 26733), (206, 26787), (225, 26832), (228, 26847),

Gene: Hans_51 Start: 41907, Stop: 42968, Start Num: 43
Candidate Starts for Hans_51:
(Start: 43 @41907 has 130 MA's), (Start: 61 @41943 has 19 MA's), (78, 41994), (85, 42018), (88, 42039), (98, 42075), (112, 42126), (117, 42159), (142, 42270), (175, 42417), (178, 42438), (182, 42450), (184, 42465), (196, 42546), (198, 42561), (207, 42603), (209, 42606), (244, 42735), (264, 42831), (272, 42903), (275, 42939),

Gene: HumptyDumpty_47 Start: 37420, Stop: 38379, Start Num: 56

Candidate Starts for HumptyDumpty_47:
(Start: 56 @37420 has 19 MA's), (64, 37447), (68, 37459), (77, 37492), (82, 37510), (94, 37570), (143, 37783), (146, 37795), (167, 37909), (175, 37936), (186, 37996), (196, 38056), (204, 38095), (218, 38137), (248, 38290),

Gene: Impisi_53 Start: 34161, Stop: 35225, Start Num: 43
Candidate Starts for Impisi_53:
(18, 34047), (Start: 43 @34161 has 130 MA's), (50, 34173), (75, 34239), (76, 34242), (78, 34248), (85, 34272), (88, 34293), (90, 34299), (93, 34311), (94, 34314), (96, 34323), (108, 34365), (112, 34380), (150, 34572), (169, 34653), (172, 34665), (175, 34674), (182, 34707), (184, 34722), (189, 34749), (196, 34803), (198, 34818), (202, 34833), (204, 34842), (213, 34872), (221, 34890), (222, 34896), (236, 34947), (246, 35004), (255, 35040), (257, 35046), (270, 35136), (271, 35145), (275, 35193), (276, 35202),

Gene: Inspectinfecti_50 Start: 42353, Stop: 43414, Start Num: 43
Candidate Starts for Inspectinfecti_50:
(Start: 43 @42353 has 130 MA's), (Start: 61 @42389 has 19 MA's), (78, 42440), (85, 42464), (88, 42485), (98, 42521), (112, 42572), (117, 42605), (142, 42716), (175, 42863), (178, 42884), (182, 42896), (184, 42911), (196, 42992), (198, 43007), (207, 43049), (209, 43052), (244, 43181), (264, 43277), (272, 43349), (275, 43385),

Gene: Island3_49 Start: 34787, Stop: 35854, Start Num: 43
Candidate Starts for Island3_49:
(Start: 43 @34787 has 130 MA's), (50, 34799), (75, 34865), (78, 34874), (85, 34898), (88, 34919), (90, 34925), (94, 34940), (96, 34949), (108, 34991), (112, 35006), (128, 35093), (172, 35291), (182, 35333), (184, 35348), (189, 35375), (193, 35396), (196, 35429), (198, 35444), (202, 35459), (204, 35468), (213, 35498), (221, 35516), (222, 35522), (231, 35555), (236, 35573), (256, 35666), (257, 35672), (271, 35771), (275, 35819), (277, 35843),

Gene: JKSyngboy_48 Start: 43130, Stop: 44158, Start Num: 40
Candidate Starts for JKSyngboy_48:
(15, 42995), (Start: 31 @43082 has 1 MA's), (Start: 40 @43130 has 2 MA's), (Start: 43 @43136 has 130 MA's), (Start: 61 @43172 has 19 MA's), (78, 43226), (85, 43250), (91, 43280), (99, 43310), (108, 43343), (112, 43358), (128, 43439), (140, 43487), (142, 43502), (175, 43649), (182, 43682), (184, 43697), (196, 43766), (198, 43781), (216, 43838),

Gene: JKerns_35 Start: 29691, Stop: 30554, Start Num: 43
Candidate Starts for JKerns_35:
(Start: 43 @29691 has 130 MA's), (78, 29781), (79, 29784), (85, 29805), (96, 29856), (112, 29913), (137, 30018), (157, 30108), (159, 30120), (162, 30135), (182, 30213), (186, 30240), (189, 30255), (194, 30297), (196, 30315), (199, 30333), (204, 30354), (207, 30372), (230, 30441), (236, 30459), (254, 30531),

Gene: JaNo_47 Start: 37420, Stop: 38379, Start Num: 56
Candidate Starts for JaNo_47:
(Start: 56 @37420 has 19 MA's), (64, 37447), (68, 37459), (77, 37492), (82, 37510), (94, 37570), (143, 37783), (146, 37795), (167, 37909), (175, 37936), (186, 37996), (196, 38056), (204, 38095), (218, 38137), (248, 38290),

Gene: Jabberwocky_49 Start: 44097, Stop: 45095, Start Num: 42
Candidate Starts for Jabberwocky_49:
(Start: 42 @44097 has 9 MA's), (Start: 61 @44133 has 19 MA's), (78, 44184), (80, 44190), (85, 44208), (91, 44238), (108, 44301), (112, 44316), (128, 44397), (133, 44412), (138, 44436), (142, 44460), (151,

44508), (175, 44607), (182, 44640), (184, 44655), (196, 44724), (198, 44739), (216, 44796), (221, 44811), (267, 44988), (275, 45060),

Gene: Jace_32 Start: 26355, Stop: 27233, Start Num: 34
Candidate Starts for Jace_32:
(Start: 34 @26355 has 1 MA's), (66, 26445), (78, 26478), (85, 26502), (94, 26544), (108, 26595), (112, 26610), (117, 26643), (162, 26847), (168, 26871), (172, 26886), (173, 26889), (180, 26922), (184, 26940), (196, 27024), (204, 27063), (207, 27081),

Gene: Jamie19_46 Start: 32655, Stop: 33719, Start Num: 43
Candidate Starts for Jamie19_46:
(18, 32541), (Start: 43 @32655 has 130 MA's), (50, 32667), (75, 32733), (76, 32736), (78, 32742), (85, 32766), (88, 32787), (90, 32793), (93, 32805), (94, 32808), (96, 32817), (108, 32859), (112, 32874), (150, 33066), (169, 33147), (172, 33159), (175, 33168), (182, 33201), (184, 33216), (189, 33243), (196, 33297), (198, 33312), (202, 33327), (204, 33336), (213, 33366), (221, 33384), (222, 33390), (236, 33441), (246, 33498), (255, 33534), (257, 33540), (270, 33630), (271, 33639), (275, 33687), (276, 33696),

Gene: Jamun_38 Start: 26377, Stop: 27183, Start Num: 41
Candidate Starts for Jamun_38:
(Start: 41 @26377 has 23 MA's), (75, 26473), (78, 26482), (91, 26536), (136, 26737), (152, 26830), (170, 26911), (196, 27037), (228, 27151),

Gene: Jawnski_33 Start: 29492, Stop: 30337, Start Num: 43
Candidate Starts for Jawnski_33:
(Start: 43 @29492 has 130 MA's), (78, 29579), (83, 29597), (85, 29603), (88, 29624), (112, 29711), (121, 29768), (137, 29816), (162, 29933), (182, 30011), (186, 30038), (189, 30053), (196, 30110), (199, 30128), (204, 30149), (207, 30167),

Gene: JayCookie_47 Start: 37556, Stop: 38515, Start Num: 56
Candidate Starts for JayCookie_47:
(Start: 56 @37556 has 19 MA's), (64, 37583), (68, 37595), (77, 37628), (82, 37646), (94, 37706), (143, 37919), (146, 37931), (159, 37994), (167, 38045), (175, 38072), (186, 38132), (196, 38192), (204, 38231), (218, 38273), (248, 38426),

Gene: Jebeks_48 Start: 32603, Stop: 33595, Start Num: 57
Candidate Starts for Jebeks_48:
(4, 32282), (17, 32450), (30, 32513), (Start: 57 @32603 has 57 MA's), (Start: 63 @32618 has 1 MA's), (78, 32666), (90, 32717), (114, 32813), (122, 32852), (155, 32987), (181, 33098), (182, 33101), (188, 33140), (194, 33164), (196, 33182), (205, 33227), (218, 33257), (221, 33269), (257, 33413), (271, 33512), (275, 33560), (277, 33584),

Gene: Jerole_42 Start: 26209, Stop: 27003, Start Num: 45
Candidate Starts for Jerole_42:
(Start: 45 @26209 has 29 MA's), (78, 26302), (86, 26338), (91, 26356), (100, 26389), (118, 26473), (147, 26620), (148, 26623), (172, 26737), (184, 26791), (196, 26857), (206, 26911), (225, 26956), (228, 26971),

Gene: JonJames_109 Start: 63983, Stop: 64675, Start Num: 61
Candidate Starts for JonJames_109:
(Start: 61 @63983 has 19 MA's), (75, 64037), (84, 64070), (92, 64109), (102, 64145), (104, 64154), (109, 64178), (111, 64187), (112, 64190), (137, 64286), (146, 64328), (148, 64340), (160, 64397), (174, 64457), (179, 64484), (181, 64490), (196, 64565), (204, 64604), (208, 64625),

Gene: Jordan_35 Start: 29741, Stop: 30604, Start Num: 43
Candidate Starts for Jordan_35:
(Start: 43 @29741 has 130 MA's), (78, 29831), (79, 29834), (85, 29855), (96, 29906), (112, 29963), (137, 30068), (157, 30158), (159, 30170), (162, 30185), (182, 30263), (186, 30290), (189, 30305), (194, 30347), (196, 30365), (199, 30383), (204, 30404), (207, 30422), (230, 30491), (236, 30509), (254, 30581),

Gene: Journey_47 Start: 31920, Stop: 32912, Start Num: 57
Candidate Starts for Journey_47:
(4, 31599), (17, 31767), (30, 31830), (Start: 57 @31920 has 57 MA's), (Start: 63 @31935 has 1 MA's), (78, 31983), (90, 32034), (114, 32130), (122, 32169), (155, 32304), (181, 32415), (182, 32418), (188, 32457), (194, 32481), (196, 32499), (205, 32544), (218, 32574), (221, 32586), (257, 32730), (271, 32829), (275, 32877), (277, 32901),

Gene: JrWilcox_100 Start: 55770, Stop: 56687, Start Num: 45
Candidate Starts for JrWilcox_100:
(Start: 45 @55770 has 29 MA's), (80, 55878), (94, 55944), (108, 55995), (111, 56007), (113, 56013), (114, 56025), (148, 56199), (154, 56229), (168, 56301), (178, 56346), (196, 56466), (201, 56493), (230, 56592),

Gene: Jung_45 Start: 32501, Stop: 33496, Start Num: 57
Candidate Starts for Jung_45:
(4, 32180), (17, 32348), (30, 32411), (Start: 57 @32501 has 57 MA's), (Start: 63 @32516 has 1 MA's), (78, 32564), (90, 32615), (114, 32711), (122, 32750), (155, 32885), (181, 32996), (182, 32999), (188, 33038), (194, 33062), (196, 33080), (205, 33125), (218, 33155), (221, 33167), (257, 33314), (271, 33413), (275, 33461), (277, 33485),

Gene: Juniormint_47 Start: 32572, Stop: 33546, Start Num: 57
Candidate Starts for Juniormint_47:
(Start: 57 @32572 has 57 MA's), (Start: 63 @32590 has 1 MA's), (78, 32638), (90, 32689), (94, 32704), (96, 32713), (122, 32824), (155, 32959), (181, 33070), (182, 33073), (188, 33112), (194, 33136), (196, 33154), (205, 33199), (218, 33229), (221, 33241), (236, 33298), (257, 33367), (271, 33466), (275, 33514),

Gene: Juno112_40 Start: 26017, Stop: 26814, Start Num: 45
Candidate Starts for Juno112_40:
(Start: 45 @26017 has 29 MA's), (78, 26113), (91, 26167), (118, 26284), (126, 26320), (147, 26431), (162, 26503), (170, 26539), (172, 26548), (196, 26668), (201, 26695), (221, 26755),

Gene: KBurrousTX_47 Start: 38672, Stop: 39619, Start Num: 56
Candidate Starts for KBurrousTX_47:
(Start: 56 @38672 has 19 MA's), (115, 38906), (119, 38933), (134, 38972), (143, 39026), (146, 39038), (147, 39047), (153, 39077), (155, 39086), (167, 39152), (175, 39179), (177, 39194), (196, 39299), (199, 39317), (208, 39359), (218, 39380), (227, 39419), (248, 39533), (251, 39554), (253, 39572),

Gene: KHumphrey_41 Start: 26016, Stop: 26813, Start Num: 45
Candidate Starts for KHumphrey_41:
(Start: 45 @26016 has 29 MA's), (78, 26112), (91, 26166), (118, 26283), (126, 26319), (147, 26430), (162, 26502), (170, 26538), (172, 26547), (196, 26667), (221, 26754),

Gene: Kabreeze_47 Start: 37420, Stop: 38379, Start Num: 56
Candidate Starts for Kabreeze_47:

(Start: 56 @37420 has 19 MA's), (64, 37447), (68, 37459), (77, 37492), (82, 37510), (94, 37570), (143, 37783), (146, 37795), (167, 37909), (175, 37936), (186, 37996), (196, 38056), (204, 38095), (218, 38137), (248, 38290),

Gene: Kamashten_50 Start: 42629, Stop: 43627, Start Num: 43
Candidate Starts for Kamashten_50:
(7, 42386), (15, 42488), (Start: 31 @42575 has 1 MA's), (Start: 43 @42629 has 130 MA's), (Start: 61 @42665 has 19 MA's), (78, 42716), (80, 42722), (85, 42740), (91, 42770), (108, 42833), (112, 42848), (128, 42929), (138, 42968), (142, 42992), (175, 43139), (182, 43172), (184, 43187), (196, 43256), (198, 43271), (216, 43328), (221, 43343), (267, 43520), (275, 43592),

Gene: Kari_46 Start: 32540, Stop: 33532, Start Num: 57
Candidate Starts for Kari_46:
(4, 32219), (17, 32387), (30, 32450), (Start: 57 @32540 has 57 MA's), (Start: 63 @32555 has 1 MA's), (78, 32603), (90, 32654), (114, 32750), (122, 32789), (155, 32924), (181, 33035), (182, 33038), (188, 33077), (194, 33101), (196, 33119), (205, 33164), (218, 33194), (221, 33206), (257, 33350), (271, 33449), (275, 33497), (277, 33521),

Gene: Keitabear_51 Start: 44151, Stop: 45146, Start Num: 43
Candidate Starts for Keitabear_51:
(7, 43908), (15, 44010), (Start: 31 @44097 has 1 MA's), (Start: 43 @44151 has 130 MA's), (Start: 61 @44187 has 19 MA's), (78, 44238), (80, 44244), (85, 44262), (91, 44292), (108, 44355), (112, 44370), (128, 44451), (133, 44466), (138, 44490), (142, 44514), (175, 44661), (182, 44694), (184, 44709), (196, 44778), (198, 44793), (216, 44850), (221, 44865), (267, 45039), (275, 45111),

Gene: KendraB23_49 Start: 27385, Stop: 28191, Start Num: 41
Candidate Starts for KendraB23_49:
(Start: 41 @27385 has 23 MA's), (75, 27481), (78, 27490), (85, 27514), (86, 27526), (91, 27544), (152, 27838), (170, 27919), (176, 27937), (196, 28045), (201, 28072), (228, 28159),

Gene: Kepler_43 Start: 26833, Stop: 27627, Start Num: 45
Candidate Starts for Kepler_43:
(Start: 45 @26833 has 29 MA's), (78, 26926), (86, 26962), (91, 26980), (100, 27013), (118, 27097), (147, 27244), (148, 27247), (172, 27361), (177, 27385), (196, 27481), (206, 27535), (225, 27580), (228, 27595),

Gene: Kevin1_50 Start: 33499, Stop: 34563, Start Num: 43
Candidate Starts for Kevin1_50:
(Start: 43 @33499 has 130 MA's), (50, 33511), (75, 33577), (78, 33586), (85, 33610), (88, 33631), (90, 33637), (94, 33652), (96, 33661), (108, 33703), (112, 33718), (128, 33805), (172, 34003), (182, 34045), (184, 34060), (189, 34087), (193, 34108), (196, 34141), (198, 34156), (202, 34171), (204, 34180), (213, 34210), (221, 34228), (222, 34234), (231, 34267), (236, 34285), (256, 34378), (257, 34384), (270, 34474), (271, 34483), (275, 34531), (276, 34540),

Gene: Kewpiedoll_52 Start: 43580, Stop: 44578, Start Num: 43
Candidate Starts for Kewpiedoll_52:
(2, 43229), (7, 43337), (15, 43439), (Start: 31 @43526 has 1 MA's), (Start: 43 @43580 has 130 MA's), (Start: 61 @43616 has 19 MA's), (78, 43667), (80, 43673), (85, 43691), (91, 43721), (108, 43784), (112, 43799), (128, 43880), (133, 43895), (138, 43919), (142, 43943), (151, 43991), (175, 44090), (182, 44123), (184, 44138), (196, 44207), (198, 44222), (216, 44279), (221, 44294), (267, 44471), (275, 44543),

Gene: KilKor_46 Start: 32800, Stop: 33774, Start Num: 57

Candidate Starts for KilKor_46:
(Start: 57 @32800 has 57 MA's), (Start: 63 @32818 has 1 MA's), (78, 32866), (90, 32917), (94, 32932), (96, 32941), (122, 33052), (155, 33187), (181, 33298), (182, 33301), (188, 33340), (194, 33364), (196, 33382), (205, 33427), (218, 33457), (221, 33469), (236, 33526), (257, 33595), (271, 33694), (275, 33742),

Gene: King2_33 Start: 29481, Stop: 30326, Start Num: 43
Candidate Starts for King2_33:
(Start: 43 @29481 has 130 MA's), (78, 29571), (83, 29589), (85, 29595), (88, 29616), (95, 29643), (112, 29703), (121, 29760), (137, 29808), (162, 29925), (178, 29991), (182, 30003), (186, 30030), (189, 30045), (194, 30084), (196, 30102), (199, 30120), (204, 30141), (207, 30159), (221, 30189), (226, 30204),

Gene: Klevey_38 Start: 29418, Stop: 30272, Start Num: 41
Candidate Starts for Klevey_38:
(Start: 41 @29418 has 23 MA's), (78, 29508), (85, 29532), (112, 29640), (137, 29745), (162, 29865), (196, 30042), (201, 30069), (204, 30081), (239, 30198),

Gene: Kroos_50 Start: 42820, Stop: 43842, Start Num: 43
Candidate Starts for Kroos_50:
(Start: 43 @42820 has 130 MA's), (Start: 61 @42856 has 19 MA's), (78, 42910), (85, 42934), (91, 42964), (99, 42994), (108, 43027), (112, 43042), (128, 43123), (140, 43171), (142, 43186), (143, 43189), (175, 43333), (182, 43366), (184, 43381), (196, 43450), (198, 43465), (216, 43522), (221, 43537),

Gene: Ksquared_46 Start: 32550, Stop: 33524, Start Num: 57
Candidate Starts for Ksquared_46:
(Start: 57 @32550 has 57 MA's), (Start: 63 @32568 has 1 MA's), (78, 32616), (90, 32667), (94, 32682), (96, 32691), (122, 32802), (155, 32937), (181, 33048), (182, 33051), (188, 33090), (194, 33114), (196, 33132), (205, 33177), (218, 33207), (221, 33219), (236, 33276), (257, 33345), (271, 33444), (275, 33492),

Gene: Kuleana_43 Start: 26408, Stop: 27208, Start Num: 45
Candidate Starts for Kuleana_43:
(Start: 45 @26408 has 29 MA's), (78, 26504), (86, 26540), (91, 26558), (118, 26675), (126, 26711), (147, 26825), (148, 26828), (162, 26897), (172, 26942), (196, 27062), (206, 27116), (228, 27176),

Gene: Kwekel_47 Start: 39327, Stop: 40385, Start Num: 43
Candidate Starts for Kwekel_47:
(36, 39297), (Start: 43 @39327 has 130 MA's), (78, 39414), (85, 39438), (91, 39468), (108, 39531), (112, 39546), (117, 39579), (142, 39690), (148, 39717), (159, 39771), (175, 39837), (178, 39858), (182, 39870), (184, 39885), (196, 39969), (199, 39987), (203, 40005), (207, 40026), (221, 40056), (244, 40167), (265, 40272), (268, 40293), (274, 40350), (275, 40356),

Gene: Kwobi_52 Start: 43246, Stop: 44268, Start Num: 43
Candidate Starts for Kwobi_52:
(7, 43003), (15, 43105), (Start: 31 @43192 has 1 MA's), (Start: 43 @43246 has 130 MA's), (Start: 61 @43282 has 19 MA's), (78, 43336), (85, 43360), (91, 43390), (99, 43420), (108, 43453), (112, 43468), (128, 43549), (140, 43597), (142, 43612), (143, 43615), (175, 43759), (182, 43792), (184, 43807), (196, 43876), (198, 43891), (216, 43948), (221, 43963),

Gene: Langerak_47 Start: 32559, Stop: 33551, Start Num: 57
Candidate Starts for Langerak_47:

(4, 32238), (17, 32406), (30, 32469), (Start: 57 @32559 has 57 MA's), (Start: 63 @32574 has 1 MA's), (78, 32622), (90, 32673), (114, 32769), (122, 32808), (155, 32943), (181, 33054), (182, 33057), (188, 33096), (194, 33120), (196, 33138), (205, 33183), (218, 33213), (221, 33225), (257, 33369), (271, 33468), (275, 33516), (277, 33540),

Gene: Laphuphu24k_40 Start: 26001, Stop: 26798, Start Num: 45
Candidate Starts for Laphuphu24k_40:
(Start: 45 @26001 has 29 MA's), (78, 26097), (91, 26151), (118, 26268), (126, 26304), (147, 26415), (162, 26487), (170, 26523), (172, 26532), (196, 26652), (201, 26679), (221, 26739),

Gene: LeeroyJ_35 Start: 29826, Stop: 30671, Start Num: 43
Candidate Starts for LeeroyJ_35:
(Start: 43 @29826 has 130 MA's), (78, 29919), (79, 29922), (85, 29943), (91, 29973), (112, 30051), (121, 30108), (137, 30156), (147, 30207), (148, 30210), (150, 30225), (162, 30273), (167, 30291), (182, 30351), (189, 30393), (194, 30432), (196, 30450), (199, 30468), (204, 30489), (207, 30507), (221, 30537), (230, 30576), (233, 30588), (236, 30594),

Gene: Lennon_51 Start: 44231, Stop: 45241, Start Num: 43
Candidate Starts for Lennon_51:
(2, 43880), (7, 43988), (15, 44090), (Start: 31 @44177 has 1 MA's), (Start: 43 @44231 has 130 MA's), (Start: 61 @44267 has 19 MA's), (78, 44318), (80, 44324), (85, 44342), (91, 44372), (108, 44435), (112, 44450), (128, 44531), (142, 44594), (175, 44741), (182, 44774), (184, 44789), (196, 44858), (198, 44873), (216, 44930), (221, 44945), (267, 45134), (275, 45206),

Gene: Leona_40 Start: 26088, Stop: 26888, Start Num: 45
Candidate Starts for Leona_40:
(Start: 45 @26088 has 29 MA's), (78, 26184), (91, 26238), (94, 26250), (113, 26319), (118, 26355), (124, 26385), (162, 26577), (172, 26622), (196, 26742), (221, 26829),

Gene: Leonard_49 Start: 42000, Stop: 43061, Start Num: 43
Candidate Starts for Leonard_49:
(27, 41934), (Start: 43 @42000 has 130 MA's), (Start: 61 @42036 has 19 MA's), (78, 42087), (85, 42111), (88, 42132), (98, 42168), (112, 42219), (117, 42252), (142, 42363), (175, 42510), (178, 42531), (182, 42543), (184, 42558), (196, 42639), (198, 42654), (207, 42696), (209, 42699), (244, 42828), (264, 42924), (272, 42996), (275, 43032),

Gene: LilHam_47 Start: 41425, Stop: 42447, Start Num: 43
Candidate Starts for LilHam_47:
(Start: 43 @41425 has 130 MA's), (Start: 61 @41461 has 19 MA's), (78, 41515), (85, 41539), (91, 41569), (99, 41599), (108, 41632), (112, 41647), (128, 41728), (140, 41776), (142, 41791), (143, 41794), (175, 41938), (182, 41971), (184, 41986), (196, 42055), (198, 42070), (216, 42127), (221, 42142),

Gene: Lilbeanie_53 Start: 38965, Stop: 40047, Start Num: 43
Candidate Starts for Lilbeanie_53:
(Start: 43 @38965 has 130 MA's), (78, 39055), (85, 39079), (86, 39091), (88, 39100), (98, 39136), (112, 39187), (123, 39247), (130, 39271), (144, 39340), (159, 39412), (168, 39451), (182, 39508), (184, 39523), (190, 39550), (196, 39604), (265, 39937), (267, 39949), (269, 39961), (275, 40018),

Gene: Lilmac1015_40 Start: 29991, Stop: 30845, Start Num: 41
Candidate Starts for Lilmac1015_40:
(Start: 41 @29991 has 23 MA's), (78, 30081), (85, 30105), (112, 30213), (137, 30318), (162, 30438), (196, 30615), (204, 30654), (239, 30771),

Gene: Linus_47 Start: 37553, Stop: 38500, Start Num: 56
Candidate Starts for Linus_47:
(Start: 56 @37553 has 19 MA's), (77, 37613), (115, 37787), (143, 37904), (146, 37916), (153, 37955), (166, 38012), (167, 38030), (168, 38033), (175, 38057), (177, 38072), (180, 38084), (196, 38177), (204, 38216), (218, 38258), (248, 38411),

Gene: LittleTokyo_41 Start: 25961, Stop: 26755, Start Num: 45
Candidate Starts for LittleTokyo_41:
(Start: 45 @25961 has 29 MA's), (74, 26048), (78, 26060), (91, 26114), (96, 26135), (113, 26195), (118, 26231), (136, 26309), (147, 26372), (156, 26414), (162, 26444), (172, 26489), (184, 26543), (196, 26609), (221, 26696), (228, 26723),

Gene: LordVader_59 Start: 36796, Stop: 37779, Start Num: 59
Candidate Starts for LordVader_59:
(Start: 59 @36796 has 1 MA's), (70, 36838), (85, 36883), (86, 36895), (90, 36910), (94, 36925), (95, 36931), (112, 36991), (114, 37006), (122, 37045), (129, 37063), (135, 37072), (143, 37120), (148, 37144), (160, 37201), (170, 37237), (180, 37279), (181, 37282), (182, 37285), (183, 37291), (184, 37300), (194, 37348), (196, 37366), (199, 37384), (204, 37405), (218, 37441), (221, 37453), (229, 37486), (245, 37546), (252, 37570), (257, 37600), (260, 37618), (271, 37699), (273, 37723), (276, 37756),

Gene: Love_56 Start: 44855, Stop: 45853, Start Num: 43
Candidate Starts for Love_56:
(7, 44612), (15, 44714), (Start: 31 @44801 has 1 MA's), (Start: 43 @44855 has 130 MA's), (Start: 61 @44891 has 19 MA's), (78, 44942), (80, 44948), (85, 44966), (91, 44996), (108, 45059), (112, 45074), (128, 45155), (133, 45170), (138, 45194), (142, 45218), (175, 45365), (182, 45398), (184, 45413), (196, 45482), (198, 45497), (216, 45554), (221, 45569), (267, 45746), (275, 45818),

Gene: Lozinak_91 Start: 56648, Stop: 57373, Start Num: 61
Candidate Starts for Lozinak_91:
(6, 56348), (8, 56375), (9, 56378), (10, 56381), (28, 56543), (Start: 61 @56648 has 19 MA's), (87, 56756), (92, 56774), (96, 56789), (97, 56792), (109, 56843), (120, 56906), (135, 56933), (141, 56966), (148, 57005), (156, 57044), (165, 57074), (169, 57101), (179, 57146), (196, 57227), (200, 57251), (214, 57296), (222, 57326),

Gene: Lukepolites_37 Start: 29627, Stop: 30544, Start Num: 53
Candidate Starts for Lukepolites_37:
(Start: 41 @29600 has 23 MA's), (Start: 53 @29627 has 4 MA's), (74, 29696), (78, 29708), (85, 29732), (86, 29744), (94, 29774), (106, 29825), (112, 29846), (137, 29951), (148, 30005), (159, 30056), (162, 30071), (167, 30092), (182, 30149), (184, 30164), (196, 30230), (198, 30245), (225, 30329), (266, 30533),

Gene: Lunar_43 Start: 26749, Stop: 27543, Start Num: 45
Candidate Starts for Lunar_43:
(Start: 45 @26749 has 29 MA's), (78, 26842), (86, 26878), (91, 26896), (100, 26929), (118, 27013), (147, 27160), (148, 27163), (172, 27277), (177, 27301), (196, 27397), (206, 27451), (225, 27496), (228, 27511),

Gene: Lymara_47 Start: 37380, Stop: 38327, Start Num: 56
Candidate Starts for Lymara_47:
(Start: 56 @37380 has 19 MA's), (77, 37440), (143, 37731), (146, 37743), (153, 37782), (166, 37839), (167, 37857), (168, 37860), (175, 37884), (185, 37941), (196, 38004), (204, 38043), (218, 38085),

Gene: Magsby_48 Start: 33475, Stop: 34536, Start Num: 43
Candidate Starts for Magsby_48:
(Start: 43 @33475 has 130 MA's), (50, 33487), (75, 33553), (76, 33556), (78, 33562), (85, 33586), (88, 33607), (90, 33613), (93, 33625), (94, 33628), (96, 33637), (108, 33679), (112, 33694), (128, 33781), (150, 33886), (152, 33895), (162, 33940), (169, 33967), (172, 33979), (178, 34009), (182, 34021), (184, 34036), (189, 34063), (193, 34084), (196, 34117), (198, 34132), (199, 34135), (202, 34147), (204, 34156), (221, 34204), (222, 34210), (236, 34261), (240, 34285), (246, 34318), (247, 34321), (255, 34351), (257, 34357), (267, 34429), (270, 34447), (271, 34456), (275, 34504), (276, 34513),

Gene: Majeke_47 Start: 32584, Stop: 33576, Start Num: 57
Candidate Starts for Majeke_47:
(4, 32263), (17, 32431), (30, 32494), (Start: 57 @32584 has 57 MA's), (Start: 63 @32599 has 1 MA's), (78, 32647), (90, 32698), (114, 32794), (122, 32833), (155, 32968), (181, 33079), (182, 33082), (188, 33121), (194, 33145), (196, 33163), (205, 33208), (218, 33238), (221, 33250), (257, 33394), (271, 33493), (275, 33541), (277, 33565),

Gene: Malithi_47 Start: 32459, Stop: 33451, Start Num: 57
Candidate Starts for Malithi_47:
(4, 32138), (17, 32306), (30, 32369), (Start: 57 @32459 has 57 MA's), (Start: 63 @32474 has 1 MA's), (78, 32522), (90, 32573), (114, 32669), (122, 32708), (155, 32843), (181, 32954), (182, 32957), (188, 32996), (194, 33020), (196, 33038), (205, 33083), (218, 33113), (221, 33125), (257, 33269), (271, 33368), (275, 33416), (277, 33440),

Gene: Mangethe_47 Start: 32584, Stop: 33576, Start Num: 57
Candidate Starts for Mangethe_47:
(4, 32263), (17, 32431), (30, 32494), (Start: 57 @32584 has 57 MA's), (Start: 63 @32599 has 1 MA's), (78, 32647), (90, 32698), (114, 32794), (122, 32833), (155, 32968), (181, 33079), (182, 33082), (188, 33121), (194, 33145), (196, 33163), (205, 33208), (218, 33238), (221, 33250), (257, 33394), (271, 33493), (275, 33541), (277, 33565),

Gene: Mao1_65 Start: 48471, Stop: 49460, Start Num: 57
Candidate Starts for Mao1_65:
(25, 48357), (Start: 57 @48471 has 57 MA's), (70, 48516), (78, 48537), (86, 48573), (90, 48588), (112, 48669), (122, 48723), (129, 48741), (160, 48879), (170, 48915), (180, 48957), (181, 48960), (182, 48963), (194, 49026), (196, 49044), (199, 49062), (201, 49071), (204, 49083), (218, 49119), (221, 49131), (227, 49155), (229, 49164), (236, 49191), (244, 49227), (245, 49230), (252, 49251), (257, 49281), (271, 49380), (273, 49404), (276, 49437),

Gene: Martha_35 Start: 29743, Stop: 30591, Start Num: 43
Candidate Starts for Martha_35:
(Start: 43 @29743 has 130 MA's), (78, 29833), (79, 29836), (85, 29857), (90, 29884), (91, 29887), (112, 29965), (121, 30022), (137, 30070), (147, 30121), (148, 30124), (162, 30187), (167, 30205), (182, 30265), (189, 30307), (194, 30346), (196, 30364), (199, 30382), (204, 30403), (207, 30421), (221, 30451), (233, 30502), (254, 30568),

Gene: Mask_64 Start: 50876, Stop: 51961, Start Num: 43
Candidate Starts for Mask_64:
(Start: 43 @50876 has 130 MA's), (Start: 59 @50912 has 1 MA's), (75, 50951), (78, 50960), (85, 50984), (88, 51005), (94, 51026), (96, 51035), (101, 51053), (106, 51086), (112, 51107), (114, 51122), (115, 51128), (118, 51149), (133, 51209), (145, 51269), (148, 51284), (163, 51356), (164, 51359), (182, 51443), (184, 51458), (189, 51485), (196, 51542), (198, 51557), (199, 51560), (202, 51572), (203, 51578), (204, 51581), (213, 51611), (221, 51629), (222, 51635), (236, 51686), (240, 51710),

(246, 51743), (247, 51746), (255, 51776), (257, 51782), (263, 51815), (271, 51881), (273, 51905), (276, 51938),

Gene: McCrothy_52 Start: 43985, Stop: 44983, Start Num: 43
Candidate Starts for McCrothy_52:
(7, 43742), (15, 43844), (Start: 31 @43931 has 1 MA's), (Start: 43 @43985 has 130 MA's), (Start: 61 @44021 has 19 MA's), (78, 44072), (80, 44078), (85, 44096), (91, 44126), (108, 44189), (112, 44204), (142, 44348), (175, 44495), (182, 44528), (184, 44543), (196, 44612), (198, 44627), (216, 44684), (221, 44699), (275, 44948),

Gene: McKinley_54 Start: 43977, Stop: 44984, Start Num: 39
Candidate Starts for McKinley_54:
(Start: 39 @43977 has 8 MA's), (Start: 42 @43986 has 9 MA's), (Start: 61 @44022 has 19 MA's), (78, 44073), (80, 44079), (85, 44097), (91, 44127), (108, 44190), (112, 44205), (128, 44286), (133, 44301), (138, 44325), (142, 44349), (175, 44496), (182, 44529), (184, 44544), (196, 44613), (198, 44628), (216, 44685), (221, 44700), (267, 44877), (275, 44949),

Gene: Megiddo_46 Start: 32800, Stop: 33774, Start Num: 57
Candidate Starts for Megiddo_46:
(Start: 57 @32800 has 57 MA's), (Start: 63 @32818 has 1 MA's), (78, 32866), (90, 32917), (94, 32932), (96, 32941), (122, 33052), (155, 33187), (181, 33298), (182, 33301), (188, 33340), (194, 33364), (196, 33382), (205, 33427), (218, 33457), (221, 33469), (236, 33526), (257, 33595), (271, 33694), (275, 33742),

Gene: MelBins_50 Start: 42252, Stop: 43313, Start Num: 43
Candidate Starts for MelBins_50:
(Start: 43 @42252 has 130 MA's), (Start: 61 @42288 has 19 MA's), (78, 42339), (85, 42363), (88, 42384), (98, 42420), (108, 42456), (112, 42471), (117, 42504), (142, 42615), (175, 42762), (178, 42783), (182, 42795), (184, 42810), (196, 42891), (198, 42906), (207, 42948), (209, 42951), (232, 43020), (244, 43080), (264, 43176), (272, 43248), (275, 43284),

Gene: Melons_43 Start: 26563, Stop: 27357, Start Num: 45
Candidate Starts for Melons_43:
(Start: 45 @26563 has 29 MA's), (78, 26656), (86, 26692), (91, 26710), (100, 26743), (118, 26827), (147, 26974), (148, 26977), (172, 27091), (177, 27115), (196, 27211), (206, 27265), (225, 27310), (228, 27325),

Gene: Melville_51 Start: 33459, Stop: 34520, Start Num: 43
Candidate Starts for Melville_51:
(Start: 43 @33459 has 130 MA's), (50, 33471), (75, 33537), (76, 33540), (78, 33546), (85, 33570), (88, 33591), (90, 33597), (93, 33609), (94, 33612), (96, 33621), (108, 33663), (112, 33678), (128, 33765), (150, 33870), (152, 33879), (162, 33924), (169, 33951), (172, 33963), (178, 33993), (182, 34005), (184, 34020), (189, 34047), (193, 34068), (196, 34101), (198, 34116), (199, 34119), (202, 34131), (204, 34140), (221, 34188), (222, 34194), (236, 34245), (240, 34269), (246, 34302), (247, 34305), (255, 34335), (257, 34341), (267, 34413), (270, 34431), (271, 34440), (275, 34488), (276, 34497),

Gene: MichelleMyBell_48 Start: 32199, Stop: 33182, Start Num: 59
Candidate Starts for MichelleMyBell_48:
(Start: 59 @32199 has 1 MA's), (85, 32286), (86, 32298), (90, 32313), (94, 32328), (95, 32334), (112, 32394), (122, 32448), (129, 32466), (135, 32475), (143, 32523), (148, 32547), (160, 32604), (170, 32640), (180, 32682), (181, 32685), (182, 32688), (183, 32694), (184, 32703), (194, 32751), (196, 32769), (199, 32787), (204, 32808), (218, 32844), (221, 32856), (229, 32889), (245, 32949), (252, 32973), (257, 33003), (260, 33021), (271, 33102), (273, 33126), (276, 33159),

Gene: Miskis_83 Start: 54557, Stop: 55282, Start Num: 61
Candidate Starts for Miskis_83:
(3, 54224), (6, 54257), (8, 54284), (9, 54287), (10, 54290), (17, 54398), (Start: 61 @54557 has 19 MA's), (87, 54665), (92, 54683), (96, 54698), (97, 54701), (109, 54752), (120, 54815), (135, 54842), (141, 54875), (148, 54914), (156, 54953), (159, 54965), (165, 54983), (169, 55010), (179, 55055), (196, 55136), (200, 55160), (214, 55205), (222, 55235),

Gene: ModicumRichard_40 Start: 33410, Stop: 34294, Start Num: 48
Candidate Starts for ModicumRichard_40:
(Start: 48 @33410 has 5 MA's), (71, 33482), (78, 33500), (81, 33512), (86, 33539), (91, 33557), (112, 33644), (140, 33809), (168, 33941), (175, 33965), (180, 33992), (182, 33998), (195, 34079), (196, 34085), (204, 34124), (235, 34226),

Gene: Mollymur_94 Start: 63842, Stop: 63024, Start Num: 47
Candidate Starts for Mollymur_94:
(Start: 47 @63842 has 7 MA's), (75, 63752), (85, 63716), (92, 63680), (109, 63611), (137, 63503), (169, 63332), (174, 63314), (187, 63245), (196, 63206), (199, 63188), (200, 63182), (208, 63146), (219, 63125), (232, 63071),

Gene: MoontowerMania_51 Start: 43863, Stop: 44861, Start Num: 43
Candidate Starts for MoontowerMania_51:
(7, 43620), (15, 43722), (Start: 31 @43809 has 1 MA's), (Start: 43 @43863 has 130 MA's), (Start: 61 @43899 has 19 MA's), (78, 43950), (80, 43956), (85, 43974), (91, 44004), (108, 44067), (112, 44082), (128, 44163), (133, 44178), (138, 44202), (142, 44226), (175, 44373), (182, 44406), (184, 44421), (196, 44490), (198, 44505), (216, 44562), (221, 44577), (267, 44754), (275, 44826),

Gene: Mordred_47 Start: 37420, Stop: 38379, Start Num: 56
Candidate Starts for Mordred_47:
(Start: 56 @37420 has 19 MA's), (64, 37447), (68, 37459), (77, 37492), (82, 37510), (94, 37570), (143, 37783), (146, 37795), (167, 37909), (175, 37936), (186, 37996), (196, 38056), (204, 38095), (218, 38137), (248, 38290),

Gene: Morgana_40 Start: 33361, Stop: 34245, Start Num: 48
Candidate Starts for Morgana_40:
(46, 33355), (Start: 48 @33361 has 5 MA's), (71, 33433), (78, 33451), (81, 33463), (86, 33490), (91, 33508), (112, 33595), (140, 33760), (155, 33838), (168, 33892), (175, 33916), (180, 33943), (182, 33949), (195, 34030), (196, 34036), (204, 34075), (235, 34177),

Gene: MoyaNatalis_47 Start: 37413, Stop: 38360, Start Num: 56
Candidate Starts for MoyaNatalis_47:
(Start: 56 @37413 has 19 MA's), (77, 37473), (115, 37647), (143, 37764), (146, 37776), (153, 37815), (166, 37872), (167, 37890), (168, 37893), (175, 37917), (177, 37932), (180, 37944), (196, 38037), (204, 38076), (218, 38118), (248, 38271),

Gene: Nandito_38 Start: 29682, Stop: 30548, Start Num: 41
Candidate Starts for Nandito_38:
(Start: 41 @29682 has 23 MA's), (78, 29772), (85, 29796), (112, 29904), (137, 30009), (162, 30129), (196, 30306), (204, 30345),

Gene: NathanVaag_33 Start: 29495, Stop: 30340, Start Num: 43
Candidate Starts for NathanVaag_33:

(Start: 43 @29495 has 130 MA's), (78, 29582), (83, 29600), (85, 29606), (88, 29627), (112, 29714), (121, 29771), (137, 29819), (162, 29936), (182, 30014), (186, 30041), (189, 30056), (196, 30113), (199, 30131), (204, 30152), (207, 30170), (221, 30200),

Gene: Natkenzie_51 Start: 43588, Stop: 44628, Start Num: 43
Candidate Starts for Natkenzie_51:
(Start: 43 @43588 has 130 MA's), (78, 43678), (85, 43702), (86, 43714), (91, 43732), (112, 43810), (117, 43843), (159, 44017), (175, 44083), (184, 44131), (196, 44203), (198, 44218), (203, 44239), (207, 44260), (209, 44263), (240, 44368), (244, 44401), (249, 44413), (272, 44560), (275, 44596),

Gene: Nazo_49 Start: 34648, Stop: 35700, Start Num: 53
Candidate Starts for Nazo_49:
(Start: 45 @34630 has 29 MA's), (Start: 53 @34648 has 4 MA's), (66, 34687), (78, 34723), (85, 34744), (86, 34756), (93, 34783), (122, 34936), (128, 34963), (138, 35002), (154, 35083), (155, 35089), (175, 35164), (181, 35191), (196, 35272), (201, 35299), (256, 35515), (257, 35521), (271, 35620), (275, 35668),

Gene: Necropolis_46 Start: 32615, Stop: 33607, Start Num: 57
Candidate Starts for Necropolis_46:
(4, 32294), (17, 32462), (30, 32525), (Start: 57 @32615 has 57 MA's), (Start: 63 @32630 has 1 MA's), (78, 32678), (90, 32729), (114, 32825), (122, 32864), (155, 32999), (181, 33110), (182, 33113), (188, 33152), (194, 33176), (196, 33194), (205, 33239), (218, 33269), (221, 33281), (257, 33425), (271, 33524), (275, 33572), (277, 33596),

Gene: Nenae_52 Start: 34366, Stop: 35430, Start Num: 43
Candidate Starts for Nenae_52:
(18, 34252), (Start: 43 @34366 has 130 MA's), (50, 34378), (75, 34444), (76, 34447), (78, 34453), (85, 34477), (88, 34498), (90, 34504), (93, 34516), (94, 34519), (96, 34528), (108, 34570), (112, 34585), (150, 34777), (169, 34858), (172, 34870), (175, 34879), (182, 34912), (184, 34927), (189, 34954), (196, 35008), (198, 35023), (202, 35038), (204, 35047), (213, 35077), (221, 35095), (222, 35101), (236, 35152), (246, 35209), (255, 35245), (257, 35251), (270, 35341), (271, 35350), (275, 35398), (276, 35407),

Gene: Niblet_42 Start: 26767, Stop: 27573, Start Num: 41
Candidate Starts for Niblet_42:
(Start: 41 @26767 has 23 MA's), (75, 26863), (78, 26872), (91, 26926), (136, 27127), (152, 27220), (170, 27301), (176, 27319), (196, 27427), (225, 27526), (228, 27541),

Gene: Nordenberg_47 Start: 42762, Stop: 43769, Start Num: 39
Candidate Starts for Nordenberg_47:
(Start: 39 @42762 has 8 MA's), (Start: 42 @42771 has 9 MA's), (Start: 61 @42807 has 19 MA's), (78, 42858), (80, 42864), (85, 42882), (91, 42912), (108, 42975), (112, 42990), (121, 43041), (140, 43119), (175, 43281), (182, 43314), (184, 43329), (196, 43398), (198, 43413), (216, 43470), (221, 43485), (275, 43734),

Gene: Norvs_91 Start: 56033, Stop: 56758, Start Num: 61
Candidate Starts for Norvs_91:
(6, 55733), (8, 55760), (9, 55763), (10, 55766), (17, 55874), (Start: 61 @56033 has 19 MA's), (87, 56141), (92, 56159), (96, 56174), (97, 56177), (109, 56228), (120, 56291), (135, 56318), (141, 56351), (148, 56390), (156, 56429), (165, 56459), (169, 56486), (179, 56531), (196, 56612), (200, 56636), (214, 56681), (222, 56711),

Gene: Nostromo_34 Start: 28820, Stop: 29710, Start Num: 43

Candidate Starts for Nostromo_34:
(Start: 43 @28820 has 130 MA's), (83, 28925), (85, 28931), (88, 28952), (108, 29024), (112, 29039), (114, 29054), (137, 29144), (162, 29261), (182, 29342), (184, 29357), (189, 29384), (196, 29441), (199, 29459), (202, 29471), (221, 29528), (233, 29579), (261, 29684),

Gene: ObLaDi_40 Start: 33395, Stop: 34282, Start Num: 48
Candidate Starts for ObLaDi_40:
(46, 33389), (Start: 48 @33395 has 5 MA's), (71, 33467), (78, 33485), (81, 33497), (86, 33524), (91, 33542), (112, 33629), (140, 33794), (168, 33929), (175, 33953), (180, 33980), (182, 33986), (195, 34067), (196, 34073), (204, 34112),

Gene: OneUp_81 Start: 54043, Stop: 54768, Start Num: 61
Candidate Starts for OneUp_81:
(Start: 61 @54043 has 19 MA's), (84, 54130), (87, 54151), (92, 54169), (97, 54187), (109, 54238), (111, 54247), (120, 54301), (135, 54328), (141, 54361), (156, 54439), (165, 54469), (196, 54622), (200, 54646), (202, 54652), (214, 54691),

Gene: Oppalora_40 Start: 26015, Stop: 26812, Start Num: 45
Candidate Starts for Oppalora_40:
(Start: 45 @26015 has 29 MA's), (78, 26111), (91, 26165), (118, 26282), (126, 26318), (147, 26429), (162, 26501), (170, 26537), (172, 26546), (196, 26666), (201, 26693), (221, 26753),

Gene: Orcanus_39 Start: 26742, Stop: 27548, Start Num: 41
Candidate Starts for Orcanus_39:
(Start: 41 @26742 has 23 MA's), (75, 26838), (78, 26847), (85, 26871), (86, 26883), (91, 26901), (136, 27102), (152, 27195), (170, 27276), (176, 27294), (196, 27402), (228, 27516),

Gene: OtsoOtso_42 Start: 25939, Stop: 26733, Start Num: 45
Candidate Starts for OtsoOtso_42:
(Start: 45 @25939 has 29 MA's), (78, 26032), (86, 26068), (91, 26086), (100, 26119), (118, 26203), (147, 26350), (148, 26353), (172, 26467), (177, 26491), (196, 26587), (206, 26641), (225, 26686), (228, 26701),

Gene: PFR1_36 Start: 27536, Stop: 28372, Start Num: 58
Candidate Starts for PFR1_36:
(58, 27536), (64, 27557), (84, 27620), (89, 27653), (102, 27695), (109, 27728), (125, 27794), (131, 27824), (134, 27836), (139, 27869), (167, 28004), (175, 28031), (181, 28061), (188, 28103), (196, 28151), (199, 28169), (204, 28190), (212, 28220), (218, 28232), (238, 28277), (242, 28304), (248, 28334),

Gene: PFR2_38 Start: 29105, Stop: 29941, Start Num: 58
Candidate Starts for PFR2_38:
(58, 29105), (64, 29126), (84, 29189), (89, 29222), (102, 29264), (109, 29297), (125, 29363), (131, 29393), (134, 29405), (139, 29438), (167, 29573), (175, 29600), (181, 29630), (188, 29672), (196, 29720), (199, 29738), (204, 29759), (212, 29789), (218, 29801), (238, 29846), (242, 29873), (248, 29903),

Gene: PaintedDog_53 Start: 35373, Stop: 36371, Start Num: 57
Candidate Starts for PaintedDog_53:
(21, 35238), (Start: 57 @35373 has 57 MA's), (Start: 63 @35388 has 1 MA's), (78, 35436), (90, 35487), (122, 35622), (182, 35871), (188, 35910), (194, 35934), (196, 35952), (199, 35970), (218, 36027), (221, 36039), (236, 36096), (246, 36138), (256, 36180), (257, 36186), (271, 36285), (275, 36333),

Gene: Panchino_45 Start: 34001, Stop: 35065, Start Num: 43
Candidate Starts for Panchino_45:
(18, 33887), (Start: 43 @34001 has 130 MA's), (50, 34013), (75, 34079), (76, 34082), (78, 34088), (85, 34112), (88, 34133), (90, 34139), (93, 34151), (94, 34154), (96, 34163), (108, 34205), (112, 34220), (150, 34412), (169, 34493), (172, 34505), (175, 34514), (182, 34547), (184, 34562), (189, 34589), (196, 34643), (198, 34658), (202, 34673), (204, 34682), (213, 34712), (221, 34730), (222, 34736), (236, 34787), (246, 34844), (255, 34880), (257, 34886), (270, 34976), (271, 34985), (275, 35033), (276, 35042),

Gene: Paries_55 Start: 44233, Stop: 45240, Start Num: 39
Candidate Starts for Paries_55:
(Start: 39 @44233 has 8 MA's), (Start: 42 @44242 has 9 MA's), (Start: 61 @44278 has 19 MA's), (78, 44329), (80, 44335), (85, 44353), (91, 44383), (108, 44446), (112, 44461), (142, 44605), (175, 44752), (182, 44785), (184, 44800), (196, 44869), (198, 44884), (216, 44941), (221, 44956), (275, 45205),

Gene: Parmesanjohn_48 Start: 33478, Stop: 34539, Start Num: 43
Candidate Starts for Parmesanjohn_48:
(Start: 43 @33478 has 130 MA's), (50, 33490), (75, 33556), (76, 33559), (78, 33565), (85, 33589), (88, 33610), (90, 33616), (93, 33628), (94, 33631), (96, 33640), (108, 33682), (112, 33697), (128, 33784), (150, 33889), (152, 33898), (162, 33943), (169, 33970), (172, 33982), (178, 34012), (182, 34024), (184, 34039), (189, 34066), (193, 34087), (196, 34120), (198, 34135), (199, 34138), (202, 34150), (204, 34159), (221, 34207), (222, 34213), (236, 34264), (240, 34288), (246, 34321), (247, 34324), (255, 34354), (257, 34360), (267, 34432), (270, 34450), (271, 34459), (275, 34507), (276, 34516),

Gene: PeanutPie_47 Start: 32535, Stop: 33509, Start Num: 57
Candidate Starts for PeanutPie_47:
(Start: 57 @32535 has 57 MA's), (Start: 63 @32553 has 1 MA's), (78, 32601), (90, 32652), (94, 32667), (96, 32676), (122, 32787), (155, 32922), (181, 33033), (182, 33036), (188, 33075), (194, 33099), (196, 33117), (205, 33162), (218, 33192), (221, 33204), (236, 33261), (257, 33330), (271, 33429), (275, 33477),

Gene: Pelletreau_48 Start: 27192, Stop: 27998, Start Num: 41
Candidate Starts for Pelletreau_48:
(Start: 41 @27192 has 23 MA's), (75, 27288), (78, 27297), (86, 27333), (91, 27351), (113, 27432), (152, 27645), (170, 27726), (176, 27744), (196, 27852), (228, 27966),

Gene: Phalm_46 Start: 32800, Stop: 33774, Start Num: 57
Candidate Starts for Phalm_46:
(Start: 57 @32800 has 57 MA's), (Start: 63 @32818 has 1 MA's), (78, 32866), (90, 32917), (94, 32932), (96, 32941), (122, 33052), (155, 33187), (181, 33298), (182, 33301), (188, 33340), (194, 33364), (196, 33382), (205, 33427), (218, 33457), (221, 33469), (236, 33526), (257, 33595), (271, 33694), (275, 33742),

Gene: PhancyPhin_52 Start: 34360, Stop: 35424, Start Num: 43
Candidate Starts for PhancyPhin_52:
(18, 34246), (Start: 43 @34360 has 130 MA's), (50, 34372), (75, 34438), (76, 34441), (78, 34447), (85, 34471), (88, 34492), (90, 34498), (93, 34510), (94, 34513), (96, 34522), (108, 34564), (112, 34579), (150, 34771), (169, 34852), (172, 34864), (175, 34873), (182, 34906), (184, 34921), (189, 34948), (196, 35002), (198, 35017), (202, 35032), (204, 35041), (213, 35071), (221, 35089), (222, 35095), (236, 35146), (246, 35203), (255, 35239), (257, 35245), (270, 35335), (271, 35344), (275, 35392), (276, 35401),

Gene: Phauci_42 Start: 38921, Stop: 39982, Start Num: 43

Candidate Starts for Phauci_42:
(5, 38648), (11, 38732), (Start: 43 @38921 has 130 MA's), (Start: 61 @38957 has 19 MA's), (78, 39008), (85, 39032), (98, 39089), (112, 39140), (142, 39284), (175, 39431), (178, 39452), (182, 39464), (184, 39479), (196, 39560), (198, 39575), (207, 39617), (209, 39620), (232, 39689), (244, 39749), (264, 39845), (272, 39917), (275, 39953),

Gene: Phayonce_47 Start: 34633, Stop: 35622, Start Num: 57
Candidate Starts for Phayonce_47:
(25, 34519), (Start: 57 @34633 has 57 MA's), (70, 34678), (78, 34699), (86, 34735), (90, 34750), (112, 34831), (122, 34885), (129, 34903), (160, 35041), (170, 35077), (180, 35119), (181, 35122), (182, 35125), (194, 35188), (196, 35206), (199, 35224), (201, 35233), (204, 35245), (218, 35281), (221, 35293), (227, 35317), (229, 35326), (236, 35353), (244, 35389), (245, 35392), (252, 35413), (257, 35443), (271, 35542), (273, 35566), (276, 35599),

Gene: Phegasus_47 Start: 32551, Stop: 33543, Start Num: 57
Candidate Starts for Phegasus_47:
(4, 32230), (17, 32398), (30, 32461), (Start: 57 @32551 has 57 MA's), (Start: 63 @32566 has 1 MA's), (78, 32614), (90, 32665), (114, 32761), (122, 32800), (155, 32935), (181, 33046), (182, 33049), (188, 33088), (194, 33112), (196, 33130), (205, 33175), (218, 33205), (221, 33217), (257, 33361), (271, 33460), (275, 33508), (277, 33532),

Gene: Philonius_48 Start: 31652, Stop: 32644, Start Num: 57
Candidate Starts for Philonius_48:
(Start: 57 @31652 has 57 MA's), (Start: 63 @31670 has 1 MA's), (78, 31718), (90, 31769), (94, 31784), (96, 31793), (122, 31904), (155, 32039), (181, 32150), (182, 32153), (188, 32192), (194, 32216), (196, 32234), (205, 32279), (218, 32309), (221, 32321), (257, 32465), (271, 32564), (275, 32612),

Gene: Phinally_49 Start: 41997, Stop: 43058, Start Num: 43
Candidate Starts for Phinally_49:
(27, 41931), (Start: 43 @41997 has 130 MA's), (Start: 61 @42033 has 19 MA's), (78, 42084), (85, 42108), (88, 42129), (98, 42165), (112, 42216), (117, 42249), (142, 42360), (175, 42507), (178, 42528), (182, 42540), (184, 42555), (196, 42636), (198, 42651), (207, 42693), (209, 42696), (244, 42825), (264, 42921), (272, 42993), (275, 43029),

Gene: Phineas_48 Start: 33393, Stop: 34367, Start Num: 57
Candidate Starts for Phineas_48:
(Start: 57 @33393 has 57 MA's), (Start: 63 @33411 has 1 MA's), (78, 33459), (90, 33510), (96, 33534), (122, 33645), (155, 33780), (181, 33891), (182, 33894), (188, 33933), (194, 33957), (196, 33975), (205, 34020), (218, 34050), (221, 34062), (236, 34119), (257, 34188), (271, 34287), (275, 34335),

Gene: PhinkBoden_90 Start: 56438, Stop: 57163, Start Num: 61
Candidate Starts for PhinkBoden_90:
(6, 56138), (8, 56165), (9, 56168), (10, 56171), (28, 56333), (Start: 61 @56438 has 19 MA's), (87, 56546), (92, 56564), (96, 56579), (97, 56582), (109, 56633), (120, 56696), (135, 56723), (141, 56756), (148, 56795), (156, 56834), (165, 56864), (169, 56891), (179, 56936), (196, 57017), (200, 57041), (214, 57086), (222, 57116),

Gene: PhirstandPhine_50 Start: 26709, Stop: 27503, Start Num: 45
Candidate Starts for PhirstandPhine_50:
(Start: 45 @26709 has 29 MA's), (78, 26802), (86, 26838), (91, 26856), (100, 26889), (118, 26973), (147, 27120), (148, 27123), (172, 27237), (177, 27261), (196, 27357), (206, 27411), (225, 27456), (228, 27471),

Gene: Phloss_46 Start: 32885, Stop: 33946, Start Num: 43
Candidate Starts for Phloss_46:
(Start: 43 @32885 has 130 MA's), (50, 32897), (75, 32963), (76, 32966), (78, 32972), (85, 32996), (88, 33017), (90, 33023), (93, 33035), (94, 33038), (96, 33047), (108, 33089), (112, 33104), (128, 33191), (150, 33296), (152, 33305), (162, 33350), (169, 33377), (172, 33389), (178, 33419), (182, 33431), (184, 33446), (189, 33473), (193, 33494), (196, 33527), (198, 33542), (199, 33545), (202, 33557), (204, 33566), (221, 33614), (222, 33620), (236, 33671), (240, 33695), (246, 33728), (247, 33731), (255, 33761), (257, 33767), (267, 33839), (270, 33857), (271, 33866), (275, 33914), (276, 33923),

Gene: PhluffyCoco_41 Start: 26013, Stop: 26810, Start Num: 45
Candidate Starts for PhluffyCoco_41:
(Start: 45 @26013 has 29 MA's), (78, 26109), (91, 26163), (118, 26280), (126, 26316), (147, 26427), (162, 26499), (170, 26535), (172, 26544), (196, 26664), (201, 26691), (221, 26751),

Gene: Phrann_49 Start: 34643, Stop: 35707, Start Num: 43
Candidate Starts for Phrann_49:
(18, 34529), (Start: 43 @34643 has 130 MA's), (50, 34655), (75, 34721), (76, 34724), (78, 34730), (85, 34754), (88, 34775), (90, 34781), (93, 34793), (94, 34796), (96, 34805), (108, 34847), (112, 34862), (150, 35054), (169, 35135), (172, 35147), (175, 35156), (182, 35189), (184, 35204), (189, 35231), (196, 35285), (198, 35300), (202, 35315), (204, 35324), (213, 35354), (221, 35372), (222, 35378), (236, 35429), (246, 35486), (255, 35522), (257, 35528), (270, 35618), (271, 35627), (275, 35675), (276, 35684),

Gene: Piccoletto_33 Start: 29496, Stop: 30341, Start Num: 43
Candidate Starts for Piccoletto_33:
(Start: 43 @29496 has 130 MA's), (78, 29583), (83, 29601), (85, 29607), (88, 29628), (112, 29715), (121, 29772), (137, 29820), (139, 29829), (162, 29937), (182, 30015), (186, 30042), (189, 30057), (194, 30096), (196, 30114), (199, 30132), (204, 30153), (207, 30171), (221, 30201),

Gene: Pineda_44 Start: 26235, Stop: 27029, Start Num: 45
Candidate Starts for Pineda_44:
(Start: 45 @26235 has 29 MA's), (78, 26328), (86, 26364), (91, 26382), (100, 26415), (118, 26499), (147, 26646), (148, 26649), (172, 26763), (184, 26817), (196, 26883), (206, 26937), (225, 26982), (228, 26997),

Gene: Pippa_35 Start: 29870, Stop: 30733, Start Num: 43
Candidate Starts for Pippa_35:
(Start: 43 @29870 has 130 MA's), (78, 29960), (79, 29963), (85, 29984), (96, 30035), (112, 30092), (137, 30197), (157, 30287), (159, 30299), (162, 30314), (182, 30392), (186, 30419), (189, 30434), (194, 30476), (196, 30494), (199, 30512), (204, 30533), (207, 30551), (230, 30620), (236, 30638), (254, 30710),

Gene: Pipsqueaks_48 Start: 33455, Stop: 34516, Start Num: 43
Candidate Starts for Pipsqueaks_48:
(Start: 43 @33455 has 130 MA's), (50, 33467), (75, 33533), (76, 33536), (78, 33542), (85, 33566), (88, 33587), (90, 33593), (93, 33605), (94, 33608), (96, 33617), (108, 33659), (112, 33674), (128, 33761), (150, 33866), (152, 33875), (162, 33920), (169, 33947), (172, 33959), (178, 33989), (182, 34001), (184, 34016), (189, 34043), (193, 34064), (196, 34097), (198, 34112), (199, 34115), (202, 34127), (204, 34136), (221, 34184), (222, 34190), (236, 34241), (240, 34265), (246, 34298), (247, 34301), (255, 34331), (257, 34337), (267, 34409), (270, 34427), (271, 34436), (275, 34484), (276, 34493),

Gene: Polka_41 Start: 25939, Stop: 26733, Start Num: 45
Candidate Starts for Polka_41:

(Start: 45 @25939 has 29 MA's), (78, 26032), (86, 26068), (91, 26086), (100, 26119), (118, 26203), (147, 26350), (148, 26353), (172, 26467), (177, 26491), (196, 26587), (206, 26641), (225, 26686), (228, 26701),

Gene: Polkaroo_47 Start: 32547, Stop: 33539, Start Num: 57
Candidate Starts for Polkaroo_47:
(4, 32226), (17, 32394), (30, 32457), (Start: 57 @32547 has 57 MA's), (Start: 63 @32562 has 1 MA's), (78, 32610), (90, 32661), (114, 32757), (122, 32796), (155, 32931), (181, 33042), (182, 33045), (188, 33084), (194, 33108), (196, 33126), (205, 33171), (218, 33201), (221, 33213), (257, 33357), (271, 33456), (275, 33504), (277, 33528),

Gene: Prairie_37 Start: 29334, Stop: 30188, Start Num: 41
Candidate Starts for Prairie_37:
(Start: 41 @29334 has 23 MA's), (78, 29424), (85, 29448), (112, 29556), (137, 29661), (162, 29781), (196, 29958), (204, 29997), (239, 30114),

Gene: PrincessTrina_47 Start: 37556, Stop: 38503, Start Num: 56
Candidate Starts for PrincessTrina_47:
(Start: 56 @37556 has 19 MA's), (77, 37616), (115, 37790), (143, 37907), (146, 37919), (153, 37958), (166, 38015), (167, 38033), (168, 38036), (175, 38060), (177, 38075), (180, 38087), (196, 38180), (204, 38219), (218, 38261), (248, 38414),

Gene: Pumpkiney_52 Start: 40925, Stop: 41965, Start Num: 43
Candidate Starts for Pumpkiney_52:
(22, 40826), (26, 40844), (Start: 43 @40925 has 130 MA's), (78, 41015), (85, 41039), (86, 41051), (91, 41069), (112, 41147), (159, 41354), (175, 41420), (184, 41468), (196, 41540), (198, 41555), (203, 41576), (207, 41597), (209, 41600), (240, 41705), (244, 41738), (249, 41750), (268, 41870), (272, 41897), (275, 41933),

Gene: Purgamenstris_52 Start: 34364, Stop: 35428, Start Num: 43
Candidate Starts for Purgamenstris_52:
(18, 34250), (Start: 43 @34364 has 130 MA's), (50, 34376), (75, 34442), (76, 34445), (78, 34451), (85, 34475), (88, 34496), (90, 34502), (93, 34514), (94, 34517), (96, 34526), (108, 34568), (112, 34583), (150, 34775), (169, 34856), (172, 34868), (175, 34877), (182, 34910), (184, 34925), (189, 34952), (196, 35006), (198, 35021), (202, 35036), (204, 35045), (213, 35075), (221, 35093), (222, 35099), (236, 35150), (246, 35207), (255, 35243), (257, 35249), (270, 35339), (271, 35348), (275, 35396), (276, 35405),

Gene: Purky_52 Start: 35044, Stop: 36114, Start Num: 53
Candidate Starts for Purky_52:
(Start: 45 @35026 has 29 MA's), (Start: 53 @35044 has 4 MA's), (73, 35104), (76, 35113), (78, 35119), (85, 35140), (86, 35152), (93, 35179), (122, 35332), (128, 35359), (154, 35479), (160, 35506), (175, 35560), (181, 35587), (185, 35614), (196, 35668), (201, 35695), (256, 35929), (257, 35935), (271, 36034), (275, 36082),

Gene: Pygmy_50 Start: 34875, Stop: 35831, Start Num: 63
Candidate Starts for Pygmy_50:
(Start: 57 @34857 has 57 MA's), (Start: 63 @34875 has 1 MA's), (78, 34923), (90, 34974), (96, 34998), (122, 35109), (155, 35244), (181, 35355), (182, 35358), (188, 35397), (194, 35421), (196, 35439), (205, 35484), (218, 35514), (221, 35526), (236, 35583), (257, 35652), (271, 35751), (275, 35799),

Gene: QueenHazel_44 Start: 32701, Stop: 33696, Start Num: 57
Candidate Starts for QueenHazel_44:

(21, 32566), (Start: 57 @32701 has 57 MA's), (Start: 63 @32716 has 1 MA's), (78, 32764), (90, 32815), (96, 32839), (122, 32950), (155, 33085), (181, 33196), (182, 33199), (188, 33238), (194, 33262), (196, 33280), (205, 33325), (218, 33355), (221, 33367), (236, 33424), (257, 33514), (271, 33613), (275, 33661), (277, 33685),

Gene: Rattail_41 Start: 26099, Stop: 26896, Start Num: 45
Candidate Starts for Rattail_41:
(Start: 45 @26099 has 29 MA's), (78, 26195), (91, 26249), (118, 26366), (126, 26402), (147, 26513), (162, 26585), (170, 26621), (172, 26630), (196, 26750), (201, 26777), (221, 26837),

Gene: Raymond7_46 Start: 34152, Stop: 35216, Start Num: 43
Candidate Starts for Raymond7_46:
(18, 34038), (Start: 43 @34152 has 130 MA's), (50, 34164), (75, 34230), (76, 34233), (78, 34239), (85, 34263), (88, 34284), (90, 34290), (93, 34302), (94, 34305), (96, 34314), (108, 34356), (112, 34371), (150, 34563), (169, 34644), (172, 34656), (175, 34665), (182, 34698), (184, 34713), (189, 34740), (196, 34794), (198, 34809), (202, 34824), (204, 34833), (213, 34863), (221, 34881), (222, 34887), (236, 34938), (246, 34995), (255, 35031), (257, 35037), (270, 35127), (271, 35136), (275, 35184), (276, 35193),

Gene: Rebel_44 Start: 30494, Stop: 31558, Start Num: 43
Candidate Starts for Rebel_44:
(18, 30380), (Start: 43 @30494 has 130 MA's), (50, 30506), (75, 30572), (76, 30575), (78, 30581), (85, 30605), (88, 30626), (90, 30632), (93, 30644), (94, 30647), (96, 30656), (108, 30698), (112, 30713), (150, 30905), (169, 30986), (172, 30998), (175, 31007), (182, 31040), (184, 31055), (189, 31082), (196, 31136), (198, 31151), (202, 31166), (204, 31175), (213, 31205), (221, 31223), (222, 31229), (236, 31280), (246, 31337), (255, 31373), (257, 31379), (270, 31469), (271, 31478), (275, 31526), (276, 31535),

Gene: RedFox_41 Start: 26012, Stop: 26809, Start Num: 45
Candidate Starts for RedFox_41:
(Start: 45 @26012 has 29 MA's), (78, 26108), (91, 26162), (118, 26279), (126, 26315), (147, 26426), (162, 26498), (170, 26534), (172, 26543), (196, 26663), (201, 26690), (221, 26750),

Gene: Redi_52 Start: 34363, Stop: 35427, Start Num: 43
Candidate Starts for Redi_52:
(18, 34249), (Start: 43 @34363 has 130 MA's), (50, 34375), (75, 34441), (76, 34444), (78, 34450), (85, 34474), (88, 34495), (90, 34501), (93, 34513), (94, 34516), (96, 34525), (108, 34567), (112, 34582), (150, 34774), (169, 34855), (172, 34867), (175, 34876), (182, 34909), (184, 34924), (189, 34951), (196, 35005), (198, 35020), (202, 35035), (204, 35044), (213, 35074), (221, 35092), (222, 35098), (236, 35149), (246, 35206), (255, 35242), (257, 35248), (270, 35338), (271, 35347), (275, 35395), (276, 35404),

Gene: Renna12_40 Start: 26070, Stop: 26870, Start Num: 45
Candidate Starts for Renna12_40:
(Start: 45 @26070 has 29 MA's), (78, 26166), (91, 26220), (94, 26232), (113, 26301), (118, 26337), (124, 26367), (162, 26559), (172, 26604), (196, 26724), (201, 26751), (221, 26811),

Gene: Ribeye_50 Start: 43238, Stop: 44260, Start Num: 43
Candidate Starts for Ribeye_50:
(Start: 43 @43238 has 130 MA's), (Start: 61 @43274 has 19 MA's), (78, 43328), (85, 43352), (91, 43382), (99, 43412), (108, 43445), (112, 43460), (128, 43541), (140, 43589), (142, 43604), (143, 43607), (175, 43751), (182, 43784), (184, 43799), (196, 43868), (198, 43883), (216, 43940), (221, 43955),

Gene: RiverRaider_52 Start: 41929, Stop: 42948, Start Num: 43
Candidate Starts for RiverRaider_52:
(Start: 31 @41884 has 1 MA's), (Start: 43 @41929 has 130 MA's), (78, 42016), (85, 42040), (91, 42070), (108, 42133), (112, 42148), (140, 42277), (175, 42439), (182, 42472), (184, 42487), (196, 42556), (198, 42571), (216, 42628), (221, 42643), (237, 42706), (262, 42796), (276, 42925),

Gene: RoadKill_45 Start: 38932, Stop: 39990, Start Num: 43
Candidate Starts for RoadKill_45:
(36, 38902), (Start: 43 @38932 has 130 MA's), (78, 39019), (85, 39043), (91, 39073), (108, 39136), (112, 39151), (117, 39184), (142, 39295), (148, 39322), (159, 39376), (175, 39442), (178, 39463), (182, 39475), (184, 39490), (196, 39574), (199, 39592), (203, 39610), (207, 39631), (221, 39661), (244, 39772), (265, 39877), (268, 39898), (274, 39955), (275, 39961),

Gene: Rofo_51 Start: 43335, Stop: 44345, Start Num: 39
Candidate Starts for Rofo_51:
(Start: 39 @43335 has 8 MA's), (Start: 42 @43344 has 9 MA's), (Start: 61 @43380 has 19 MA's), (78, 43434), (80, 43440), (85, 43458), (91, 43488), (108, 43551), (112, 43566), (128, 43647), (142, 43710), (175, 43857), (182, 43890), (184, 43905), (196, 43974), (198, 43989), (216, 44046), (221, 44061), (265, 44226), (275, 44310),

Gene: RosiePosie_47 Start: 37423, Stop: 38382, Start Num: 56
Candidate Starts for RosiePosie_47:
(Start: 56 @37423 has 19 MA's), (64, 37450), (68, 37462), (77, 37495), (82, 37513), (94, 37573), (143, 37786), (146, 37798), (167, 37912), (175, 37939), (186, 37999), (196, 38059), (204, 38098), (218, 38140), (248, 38293),

Gene: Rubeelu_51 Start: 34063, Stop: 35127, Start Num: 43
Candidate Starts for Rubeelu_51:
(Start: 43 @34063 has 130 MA's), (50, 34075), (75, 34141), (78, 34150), (85, 34174), (88, 34195), (90, 34201), (94, 34216), (96, 34225), (108, 34267), (112, 34282), (128, 34369), (172, 34567), (182, 34609), (184, 34624), (189, 34651), (193, 34672), (196, 34705), (198, 34720), (202, 34735), (204, 34744), (213, 34774), (221, 34792), (222, 34798), (231, 34831), (236, 34849), (256, 34942), (257, 34948), (270, 35038), (271, 35047), (275, 35095), (276, 35104),

Gene: Ruchi_38 Start: 26786, Stop: 27592, Start Num: 41
Candidate Starts for Ruchi_38:
(Start: 41 @26786 has 23 MA's), (75, 26882), (78, 26891), (86, 26927), (91, 26945), (152, 27239), (160, 27275), (182, 27365), (196, 27446), (228, 27560),

Gene: Sampson_51 Start: 43533, Stop: 44573, Start Num: 43
Candidate Starts for Sampson_51:
(Start: 43 @43533 has 130 MA's), (78, 43623), (85, 43647), (86, 43659), (91, 43677), (112, 43755), (117, 43788), (159, 43962), (175, 44028), (184, 44076), (196, 44148), (198, 44163), (203, 44184), (207, 44205), (209, 44208), (240, 44313), (244, 44346), (249, 44358), (272, 44505), (275, 44541),

Gene: Sanjuju_50 Start: 44082, Stop: 45080, Start Num: 42
Candidate Starts for Sanjuju_50:
(19, 43998), (24, 44019), (Start: 42 @44082 has 9 MA's), (Start: 61 @44118 has 19 MA's), (78, 44169), (80, 44175), (85, 44193), (91, 44223), (108, 44286), (112, 44301), (142, 44445), (175, 44592), (182, 44625), (184, 44640), (196, 44709), (198, 44724), (216, 44781), (221, 44796), (267, 44973), (275, 45045),

Gene: Saronaya_50 Start: 42531, Stop: 43559, Start Num: 40
Candidate Starts for Saronaya_50:
(15, 42396), (Start: 31 @42483 has 1 MA's), (Start: 40 @42531 has 2 MA's), (Start: 43 @42537 has 130 MA's), (Start: 61 @42573 has 19 MA's), (78, 42627), (85, 42651), (91, 42681), (99, 42711), (108, 42744), (112, 42759), (140, 42888), (142, 42903), (143, 42906), (175, 43050), (182, 43083), (184, 43098), (196, 43167), (197, 43173), (198, 43182), (216, 43239), (221, 43254),

Gene: Sbash_58 Start: 41406, Stop: 42380, Start Num: 57
Candidate Starts for Sbash_58:
(Start: 57 @41406 has 57 MA's), (Start: 63 @41421 has 1 MA's), (78, 41469), (82, 41481), (90, 41520), (95, 41541), (96, 41544), (103, 41562), (139, 41709), (150, 41769), (152, 41778), (170, 41850), (172, 41859), (182, 41898), (188, 41937), (194, 41961), (196, 41979), (199, 41997), (204, 42018), (205, 42024), (218, 42054), (256, 42195), (257, 42201), (275, 42348),

Gene: Scavito_47 Start: 37421, Stop: 38380, Start Num: 56
Candidate Starts for Scavito_47:
(Start: 56 @37421 has 19 MA's), (64, 37448), (68, 37460), (77, 37493), (82, 37511), (94, 37571), (143, 37784), (146, 37796), (167, 37910), (175, 37937), (186, 37997), (196, 38057), (204, 38096), (218, 38138), (248, 38291),

Gene: Schnauzer_49 Start: 33478, Stop: 34539, Start Num: 43
Candidate Starts for Schnauzer_49:
(Start: 43 @33478 has 130 MA's), (50, 33490), (75, 33556), (76, 33559), (78, 33565), (85, 33589), (88, 33610), (90, 33616), (93, 33628), (94, 33631), (96, 33640), (108, 33682), (112, 33697), (128, 33784), (150, 33889), (152, 33898), (162, 33943), (169, 33970), (172, 33982), (178, 34012), (182, 34024), (184, 34039), (189, 34066), (193, 34087), (196, 34120), (198, 34135), (199, 34138), (202, 34150), (204, 34159), (221, 34207), (222, 34213), (236, 34264), (240, 34288), (246, 34321), (247, 34324), (255, 34354), (257, 34360), (267, 34432), (270, 34450), (271, 34459), (275, 34507), (276, 34516),

Gene: SchottB_48 Start: 43080, Stop: 44102, Start Num: 43
Candidate Starts for SchottB_48:
(Start: 43 @43080 has 130 MA's), (Start: 61 @43116 has 19 MA's), (78, 43170), (85, 43194), (91, 43224), (99, 43254), (108, 43287), (112, 43302), (128, 43383), (140, 43431), (142, 43446), (143, 43449), (175, 43593), (182, 43626), (184, 43641), (196, 43710), (198, 43725), (216, 43782), (221, 43797),

Gene: Scioto_52 Start: 43589, Stop: 44629, Start Num: 43
Candidate Starts for Scioto_52:
(Start: 43 @43589 has 130 MA's), (78, 43679), (85, 43703), (86, 43715), (91, 43733), (112, 43811), (117, 43844), (159, 44018), (175, 44084), (184, 44132), (196, 44204), (198, 44219), (203, 44240), (207, 44261), (209, 44264), (240, 44369), (244, 44402), (249, 44414), (272, 44561), (275, 44597),

Gene: Scitech_45 Start: 31494, Stop: 32558, Start Num: 43
Candidate Starts for Scitech_45:
(Start: 43 @31494 has 130 MA's), (50, 31506), (75, 31572), (76, 31575), (78, 31581), (85, 31605), (88, 31626), (90, 31632), (93, 31644), (94, 31647), (96, 31656), (108, 31698), (112, 31713), (128, 31800), (150, 31905), (152, 31914), (162, 31959), (169, 31986), (172, 31998), (178, 32028), (182, 32040), (184, 32055), (189, 32082), (193, 32103), (196, 32136), (198, 32151), (199, 32154), (202, 32166), (204, 32175), (221, 32223), (222, 32229), (236, 32280), (240, 32304), (246, 32337), (247, 32340), (255, 32370), (257, 32376), (270, 32469), (271, 32478), (273, 32502), (276, 32535),

Gene: Sedona_51 Start: 43831, Stop: 44826, Start Num: 43
Candidate Starts for Sedona_51:

(7, 43588), (15, 43690), (Start: 31 @43777 has 1 MA's), (Start: 43 @43831 has 130 MA's), (Start: 61 @43867 has 19 MA's), (78, 43918), (80, 43924), (85, 43942), (91, 43972), (108, 44035), (112, 44050), (128, 44131), (133, 44146), (138, 44170), (142, 44194), (175, 44341), (182, 44374), (184, 44389), (196, 44458), (198, 44473), (216, 44530), (221, 44545), (267, 44719), (275, 44791),

Gene: Sejanus_64 Start: 49582, Stop: 50574, Start Num: 57
Candidate Starts for Sejanus_64:
(25, 49468), (Start: 57 @49582 has 57 MA's), (70, 49627), (78, 49648), (85, 49672), (86, 49684), (90, 49699), (111, 49777), (112, 49780), (122, 49834), (129, 49852), (155, 49969), (160, 49990), (170, 50026), (180, 50068), (181, 50071), (182, 50074), (194, 50137), (196, 50155), (199, 50173), (204, 50194), (218, 50230), (221, 50242), (236, 50302), (244, 50338), (245, 50341), (252, 50365), (257, 50395), (260, 50413), (271, 50494), (273, 50518), (276, 50551),

Gene: Shade_35 Start: 29715, Stop: 30578, Start Num: 43
Candidate Starts for Shade_35:
(Start: 43 @29715 has 130 MA's), (78, 29805), (79, 29808), (85, 29829), (96, 29880), (112, 29937), (137, 30042), (157, 30132), (159, 30144), (162, 30159), (182, 30237), (186, 30264), (189, 30279), (194, 30321), (196, 30339), (199, 30357), (204, 30378), (207, 30396), (230, 30465), (236, 30483), (254, 30555),

Gene: Shen_38 Start: 25299, Stop: 26105, Start Num: 41
Candidate Starts for Shen_38:
(Start: 41 @25299 has 23 MA's), (75, 25395), (78, 25404), (85, 25428), (86, 25440), (91, 25458), (152, 25752), (170, 25833), (176, 25851), (196, 25959), (201, 25986), (228, 26073),

Gene: Shipwreck_50 Start: 34832, Stop: 35806, Start Num: 57
Candidate Starts for Shipwreck_50:
(Start: 57 @34832 has 57 MA's), (Start: 63 @34850 has 1 MA's), (78, 34898), (90, 34949), (96, 34973), (122, 35084), (155, 35219), (181, 35330), (182, 35333), (188, 35372), (194, 35396), (196, 35414), (205, 35459), (218, 35489), (221, 35501), (236, 35558), (257, 35627), (271, 35726), (275, 35774),

Gene: Shivanishola_51 Start: 42552, Stop: 43547, Start Num: 43
Candidate Starts for Shivanishola_51:
(7, 42309), (15, 42411), (Start: 31 @42498 has 1 MA's), (Start: 43 @42552 has 130 MA's), (Start: 61 @42588 has 19 MA's), (78, 42639), (80, 42645), (85, 42663), (91, 42693), (108, 42756), (112, 42771), (128, 42852), (133, 42867), (138, 42891), (142, 42915), (175, 43062), (182, 43095), (184, 43110), (196, 43179), (198, 43194), (216, 43251), (221, 43266), (267, 43440), (275, 43512),

Gene: ShrimpFriedEgg_52 Start: 34363, Stop: 35427, Start Num: 43
Candidate Starts for ShrimpFriedEgg_52:
(18, 34249), (Start: 43 @34363 has 130 MA's), (50, 34375), (75, 34441), (76, 34444), (78, 34450), (85, 34474), (88, 34495), (90, 34501), (93, 34513), (94, 34516), (96, 34525), (108, 34567), (112, 34582), (150, 34774), (169, 34855), (172, 34867), (175, 34876), (182, 34909), (184, 34924), (189, 34951), (196, 35005), (198, 35020), (202, 35035), (204, 35044), (213, 35074), (221, 35092), (222, 35098), (236, 35149), (246, 35206), (255, 35242), (257, 35248), (270, 35338), (271, 35347), (275, 35395), (276, 35404),

Gene: Shweta_46 Start: 32422, Stop: 33489, Start Num: 43
Candidate Starts for Shweta_46:
(18, 32308), (Start: 43 @32422 has 130 MA's), (50, 32434), (75, 32500), (76, 32503), (78, 32509), (85, 32533), (88, 32554), (90, 32560), (93, 32572), (94, 32575), (96, 32584), (108, 32626), (112, 32641), (150, 32833), (169, 32914), (172, 32926), (175, 32935), (182, 32968), (184, 32983), (189, 33010), (196, 33064), (198, 33079), (202, 33094), (204, 33103), (213, 33133), (221, 33151), (222, 33157),

(236, 33208), (246, 33265), (257, 33307), (271, 33406), (275, 33454), (277, 33478),

Gene: Sicarius2_36 Start: 29347, Stop: 30198, Start Num: 43
Candidate Starts for Sicarius2_36:
(Start: 43 @29347 has 130 MA's), (79, 29440), (83, 29455), (85, 29461), (91, 29491), (96, 29512), (112, 29569), (137, 29674), (148, 29728), (162, 29791), (182, 29869), (189, 29911), (194, 29950), (196, 29968), (199, 29986), (204, 30007), (207, 30025), (221, 30055),

Gene: Silvafighter_49 Start: 33451, Stop: 34512, Start Num: 43
Candidate Starts for Silvafighter_49:
(Start: 43 @33451 has 130 MA's), (50, 33463), (75, 33529), (76, 33532), (78, 33538), (85, 33562), (88, 33583), (90, 33589), (93, 33601), (94, 33604), (96, 33613), (108, 33655), (112, 33670), (128, 33757), (150, 33862), (152, 33871), (162, 33916), (169, 33943), (172, 33955), (178, 33985), (182, 33997), (184, 34012), (189, 34039), (193, 34060), (196, 34093), (198, 34108), (199, 34111), (202, 34123), (204, 34132), (221, 34180), (222, 34186), (236, 34237), (240, 34261), (246, 34294), (247, 34297), (255, 34327), (257, 34333), (267, 34405), (270, 34423), (271, 34432), (275, 34480), (276, 34489),

Gene: Silvy_46 Start: 32126, Stop: 33115, Start Num: 57
Candidate Starts for Silvy_46:
(4, 31805), (17, 31973), (30, 32036), (Start: 57 @32126 has 57 MA's), (Start: 63 @32141 has 1 MA's), (78, 32189), (90, 32240), (114, 32336), (122, 32375), (155, 32510), (181, 32621), (182, 32624), (188, 32663), (194, 32687), (196, 32705), (205, 32750), (218, 32780), (221, 32792), (257, 32936), (271, 33035), (275, 33083),

Gene: Sitar_51 Start: 44231, Stop: 45241, Start Num: 43
Candidate Starts for Sitar_51:
(2, 43880), (7, 43988), (15, 44090), (Start: 31 @44177 has 1 MA's), (Start: 43 @44231 has 130 MA's), (Start: 61 @44267 has 19 MA's), (78, 44318), (80, 44324), (85, 44342), (91, 44372), (108, 44435), (112, 44450), (128, 44531), (142, 44594), (175, 44741), (182, 44774), (184, 44789), (196, 44858), (198, 44873), (216, 44930), (221, 44945), (267, 45134), (275, 45206),

Gene: SkinnyPete_45 Start: 31602, Stop: 32585, Start Num: 57
Candidate Starts for SkinnyPete_45:
(Start: 57 @31602 has 57 MA's), (78, 31668), (82, 31680), (90, 31719), (103, 31761), (122, 31854), (155, 31989), (180, 32097), (181, 32100), (182, 32103), (188, 32142), (194, 32166), (196, 32184), (201, 32211), (204, 32223), (218, 32259), (221, 32271), (236, 32328), (257, 32403), (271, 32505), (275, 32553),

Gene: Smoothie_92 Start: 56648, Stop: 57373, Start Num: 61
Candidate Starts for Smoothie_92:
(6, 56348), (8, 56375), (9, 56378), (10, 56381), (28, 56543), (Start: 61 @56648 has 19 MA's), (87, 56756), (92, 56774), (96, 56789), (97, 56792), (109, 56843), (120, 56906), (135, 56933), (141, 56966), (148, 57005), (156, 57044), (165, 57074), (169, 57101), (179, 57146), (196, 57227), (200, 57251), (214, 57296), (222, 57326),

Gene: Smurph_48 Start: 33478, Stop: 34539, Start Num: 43
Candidate Starts for Smurph_48:
(Start: 43 @33478 has 130 MA's), (50, 33490), (75, 33556), (76, 33559), (78, 33565), (85, 33589), (88, 33610), (90, 33616), (93, 33628), (94, 33631), (96, 33640), (108, 33682), (112, 33697), (128, 33784), (150, 33889), (152, 33898), (162, 33943), (169, 33970), (172, 33982), (178, 34012), (182, 34024), (184, 34039), (189, 34066), (193, 34087), (196, 34120), (198, 34135), (199, 34138), (202, 34150), (204, 34159), (221, 34207), (222, 34213), (236, 34264), (240, 34288), (246, 34321), (247, 34324), (255, 34354), (257, 34360), (267, 34432), (270, 34450), (271, 34459), (275, 34507), (276, 34516),

Gene: Snekmaggedon_46 Start: 32655, Stop: 33719, Start Num: 43
Candidate Starts for Snekmaggedon_46:
(18, 32541), (Start: 43 @32655 has 130 MA's), (50, 32667), (75, 32733), (76, 32736), (78, 32742), (85, 32766), (88, 32787), (90, 32793), (93, 32805), (94, 32808), (96, 32817), (108, 32859), (112, 32874), (150, 33066), (169, 33147), (172, 33159), (175, 33168), (182, 33201), (184, 33216), (189, 33243), (196, 33297), (198, 33312), (202, 33327), (204, 33336), (213, 33366), (221, 33384), (222, 33390), (236, 33441), (246, 33498), (255, 33534), (257, 33540), (270, 33630), (271, 33639), (275, 33687), (276, 33696),

Gene: Sonah_47 Start: 32529, Stop: 33503, Start Num: 57
Candidate Starts for Sonah_47:
(Start: 57 @32529 has 57 MA's), (Start: 63 @32547 has 1 MA's), (78, 32595), (90, 32646), (96, 32670), (122, 32781), (155, 32916), (181, 33027), (182, 33030), (188, 33069), (194, 33093), (196, 33111), (205, 33156), (218, 33186), (221, 33198), (236, 33255), (257, 33324), (271, 33423), (275, 33471),

Gene: Sonny_35 Start: 29745, Stop: 30608, Start Num: 43
Candidate Starts for Sonny_35:
(Start: 43 @29745 has 130 MA's), (78, 29835), (79, 29838), (85, 29859), (96, 29910), (112, 29967), (137, 30072), (157, 30162), (159, 30174), (162, 30189), (182, 30267), (186, 30294), (189, 30309), (194, 30351), (196, 30369), (199, 30387), (204, 30408), (207, 30426), (230, 30495), (236, 30513), (254, 30585),

Gene: SpeedDemon_950 Start: 64954, Stop: 64124, Start Num: 47
Candidate Starts for SpeedDemon_950:
(Start: 47 @64954 has 7 MA's), (85, 64831), (92, 64795), (109, 64726), (137, 64618), (169, 64453), (174, 64435), (196, 64327), (208, 64267), (233, 64183),

Gene: Spinach_52 Start: 34363, Stop: 35427, Start Num: 43
Candidate Starts for Spinach_52:
(18, 34249), (Start: 43 @34363 has 130 MA's), (50, 34375), (75, 34441), (76, 34444), (78, 34450), (85, 34474), (88, 34495), (90, 34501), (93, 34513), (94, 34516), (96, 34525), (108, 34567), (112, 34582), (150, 34774), (169, 34855), (172, 34867), (175, 34876), (182, 34909), (184, 34924), (189, 34951), (196, 35005), (198, 35020), (202, 35035), (204, 35044), (213, 35074), (221, 35092), (222, 35098), (236, 35149), (246, 35206), (255, 35242), (257, 35248), (270, 35338), (271, 35347), (275, 35395), (276, 35404),

Gene: SpongeBob_46 Start: 32655, Stop: 33719, Start Num: 43
Candidate Starts for SpongeBob_46:
(18, 32541), (Start: 43 @32655 has 130 MA's), (50, 32667), (75, 32733), (76, 32736), (78, 32742), (85, 32766), (88, 32787), (90, 32793), (93, 32805), (94, 32808), (96, 32817), (108, 32859), (112, 32874), (150, 33066), (169, 33147), (172, 33159), (175, 33168), (182, 33201), (184, 33216), (189, 33243), (196, 33297), (198, 33312), (202, 33327), (204, 33336), (213, 33366), (221, 33384), (222, 33390), (236, 33441), (246, 33498), (255, 33534), (257, 33540), (270, 33630), (271, 33639), (275, 33687), (276, 33696),

Gene: StevieBAY_35 Start: 29827, Stop: 30672, Start Num: 43
Candidate Starts for StevieBAY_35:
(Start: 43 @29827 has 130 MA's), (78, 29920), (79, 29923), (85, 29944), (91, 29974), (112, 30052), (121, 30109), (137, 30157), (147, 30208), (148, 30211), (150, 30226), (158, 30256), (162, 30274), (167, 30292), (182, 30352), (189, 30394), (194, 30433), (196, 30451), (199, 30469), (204, 30490), (207, 30508), (230, 30577), (233, 30589), (236, 30595),

Gene: StevieRay_46 Start: 32502, Stop: 33476, Start Num: 57
Candidate Starts for StevieRay_46:
(Start: 57 @32502 has 57 MA's), (Start: 63 @32520 has 1 MA's), (78, 32568), (90, 32619), (94, 32634), (96, 32643), (122, 32754), (155, 32889), (181, 33000), (182, 33003), (188, 33042), (194, 33066), (196, 33084), (205, 33129), (218, 33159), (221, 33171), (236, 33228), (257, 33297), (271, 33396), (275, 33444),

Gene: StorminNorm_49 Start: 42171, Stop: 43193, Start Num: 43
Candidate Starts for StorminNorm_49:
(Start: 43 @42171 has 130 MA's), (Start: 61 @42207 has 19 MA's), (78, 42261), (85, 42285), (91, 42315), (99, 42345), (108, 42378), (112, 42393), (128, 42474), (140, 42522), (142, 42537), (143, 42540), (175, 42684), (182, 42717), (184, 42732), (196, 42801), (198, 42816), (216, 42873), (221, 42888),

Gene: StressBall_46 Start: 32800, Stop: 33774, Start Num: 57
Candidate Starts for StressBall_46:
(Start: 57 @32800 has 57 MA's), (Start: 63 @32818 has 1 MA's), (78, 32866), (90, 32917), (94, 32932), (96, 32941), (122, 33052), (155, 33187), (181, 33298), (182, 33301), (188, 33340), (194, 33364), (196, 33382), (205, 33427), (218, 33457), (221, 33469), (236, 33526), (257, 33595), (271, 33694), (275, 33742),

Gene: StuartMinion_33 Start: 23080, Stop: 23877, Start Num: 45
Candidate Starts for StuartMinion_33:
(Start: 45 @23080 has 29 MA's), (78, 23176), (91, 23230), (118, 23347), (147, 23494), (162, 23566), (172, 23611), (196, 23731), (221, 23818),

Gene: Stuck_62 Start: 42896, Stop: 43942, Start Num: 43
Candidate Starts for Stuck_62:
(Start: 43 @42896 has 130 MA's), (50, 42908), (75, 42974), (78, 42983), (85, 43007), (88, 43028), (93, 43046), (94, 43049), (96, 43058), (108, 43100), (112, 43115), (182, 43442), (184, 43457), (189, 43484), (196, 43538), (198, 43553), (202, 43568), (204, 43577), (225, 43637), (231, 43664), (236, 43682), (247, 43736), (255, 43757), (257, 43763), (275, 43910),

Gene: Stultus_49 Start: 42729, Stop: 43727, Start Num: 42
Candidate Starts for Stultus_49:
(Start: 42 @42729 has 9 MA's), (Start: 61 @42765 has 19 MA's), (78, 42816), (80, 42822), (85, 42840), (91, 42870), (108, 42933), (112, 42948), (128, 43029), (133, 43044), (138, 43068), (142, 43092), (175, 43239), (182, 43272), (184, 43287), (196, 43356), (198, 43371), (216, 43428), (221, 43443), (267, 43620), (275, 43692),

Gene: TaeYoung_35 Start: 29743, Stop: 30591, Start Num: 43
Candidate Starts for TaeYoung_35:
(Start: 43 @29743 has 130 MA's), (78, 29833), (79, 29836), (85, 29857), (90, 29884), (91, 29887), (112, 29965), (121, 30022), (137, 30070), (147, 30121), (148, 30124), (162, 30187), (167, 30205), (182, 30265), (189, 30307), (194, 30346), (196, 30364), (199, 30382), (204, 30403), (207, 30421), (221, 30451), (233, 30502), (254, 30568),

Gene: Tangent_52 Start: 42958, Stop: 43968, Start Num: 39
Candidate Starts for Tangent_52:
(Start: 39 @42958 has 8 MA's), (Start: 42 @42967 has 9 MA's), (Start: 61 @43003 has 19 MA's), (78, 43057), (80, 43063), (85, 43081), (91, 43111), (108, 43174), (112, 43189), (128, 43270), (142, 43333), (175, 43480), (182, 43513), (184, 43528), (196, 43597), (198, 43612), (216, 43669), (221, 43684), (265, 43849), (275, 43933),

Gene: Tangerine_49 Start: 41949, Stop: 42971, Start Num: 43
Candidate Starts for Tangerine_49:
(Start: 43 @41949 has 130 MA's), (78, 42039), (85, 42063), (91, 42093), (99, 42123), (108, 42156), (112, 42171), (140, 42300), (142, 42315), (143, 42318), (175, 42462), (182, 42495), (184, 42510), (196, 42579), (197, 42585), (198, 42594), (216, 42651), (221, 42666),

Gene: Tapioca_50 Start: 33444, Stop: 34505, Start Num: 43
Candidate Starts for Tapioca_50:
(Start: 43 @33444 has 130 MA's), (50, 33456), (75, 33522), (76, 33525), (78, 33531), (85, 33555), (88, 33576), (90, 33582), (93, 33594), (94, 33597), (96, 33606), (108, 33648), (112, 33663), (128, 33750), (150, 33855), (152, 33864), (162, 33909), (169, 33936), (172, 33948), (178, 33978), (182, 33990), (184, 34005), (189, 34032), (193, 34053), (196, 34086), (198, 34101), (199, 34104), (202, 34116), (204, 34125), (221, 34173), (222, 34179), (236, 34230), (240, 34254), (246, 34287), (247, 34290), (255, 34320), (257, 34326), (267, 34398), (270, 34416), (271, 34425), (275, 34473), (276, 34482),

Gene: Tardus_53 Start: 43285, Stop: 44328, Start Num: 43
Candidate Starts for Tardus_53:
(Start: 43 @43285 has 130 MA's), (78, 43375), (85, 43399), (86, 43411), (91, 43429), (112, 43507), (138, 43609), (159, 43714), (175, 43780), (184, 43828), (196, 43900), (198, 43915), (203, 43936), (207, 43957), (209, 43960), (240, 44065), (244, 44098), (249, 44110), (272, 44260), (275, 44296),

Gene: TaylorSipht_39 Start: 26156, Stop: 26953, Start Num: 41
Candidate Starts for TaylorSipht_39:
(Start: 41 @26156 has 23 MA's), (74, 26246), (75, 26249), (78, 26258), (91, 26312), (118, 26429), (162, 26642), (172, 26687), (196, 26807), (201, 26834), (216, 26879), (217, 26882), (225, 26906),

Gene: Techage_46 Start: 32569, Stop: 33561, Start Num: 57
Candidate Starts for Techage_46:
(4, 32248), (17, 32416), (30, 32479), (Start: 57 @32569 has 57 MA's), (Start: 63 @32584 has 1 MA's), (78, 32632), (90, 32683), (114, 32779), (122, 32818), (155, 32953), (181, 33064), (182, 33067), (188, 33106), (194, 33130), (196, 33148), (205, 33193), (218, 33223), (221, 33235), (257, 33379), (271, 33478), (275, 33526), (277, 33550),

Gene: Tessdabest_49 Start: 33475, Stop: 34536, Start Num: 43
Candidate Starts for Tessdabest_49:
(Start: 43 @33475 has 130 MA's), (50, 33487), (75, 33553), (76, 33556), (78, 33562), (85, 33586), (88, 33607), (90, 33613), (93, 33625), (94, 33628), (96, 33637), (108, 33679), (112, 33694), (128, 33781), (150, 33886), (152, 33895), (162, 33940), (169, 33967), (172, 33979), (178, 34009), (182, 34021), (184, 34036), (189, 34063), (193, 34084), (196, 34117), (198, 34132), (199, 34135), (202, 34147), (204, 34156), (221, 34204), (222, 34210), (236, 34261), (240, 34285), (246, 34318), (247, 34321), (255, 34351), (257, 34357), (267, 34429), (270, 34447), (271, 34456), (275, 34504), (276, 34513),

Gene: Thespis_46 Start: 32536, Stop: 33510, Start Num: 57
Candidate Starts for Thespis_46:
(Start: 57 @32536 has 57 MA's), (Start: 63 @32554 has 1 MA's), (78, 32602), (90, 32653), (94, 32668), (96, 32677), (122, 32788), (155, 32923), (181, 33034), (182, 33037), (188, 33076), (194, 33100), (196, 33118), (205, 33163), (218, 33193), (221, 33205), (236, 33262), (257, 33331), (271, 33430), (275, 33478),

Gene: Thing3_50 Start: 42629, Stop: 43627, Start Num: 43
Candidate Starts for Thing3_50:

(7, 42386), (15, 42488), (Start: 31 @42575 has 1 MA's), (Start: 43 @42629 has 130 MA's), (Start: 61 @42665 has 19 MA's), (78, 42716), (80, 42722), (85, 42740), (91, 42770), (108, 42833), (112, 42848), (128, 42929), (138, 42968), (142, 42992), (175, 43139), (182, 43172), (184, 43187), (196, 43256), (198, 43271), (216, 43328), (221, 43343), (267, 43520), (275, 43592),

Gene: ThulaThula_53 Start: 37120, Stop: 38187, Start Num: 43
Candidate Starts for ThulaThula_53:
(18, 37006), (Start: 43 @37120 has 130 MA's), (50, 37132), (78, 37207), (85, 37231), (88, 37252), (94, 37273), (96, 37282), (108, 37324), (112, 37339), (117, 37372), (150, 37531), (152, 37540), (172, 37624), (182, 37666), (184, 37681), (189, 37708), (193, 37729), (196, 37762), (198, 37777), (202, 37792), (204, 37801), (213, 37831), (221, 37849), (231, 37888), (236, 37906), (256, 38002), (257, 38008), (271, 38107),

Gene: Tiamoceli_48 Start: 40223, Stop: 41281, Start Num: 43
Candidate Starts for Tiamoceli_48:
(36, 40193), (Start: 43 @40223 has 130 MA's), (78, 40310), (85, 40334), (91, 40364), (108, 40427), (112, 40442), (117, 40475), (142, 40586), (148, 40613), (159, 40667), (175, 40733), (178, 40754), (182, 40766), (184, 40781), (196, 40865), (199, 40883), (203, 40901), (207, 40922), (221, 40952), (244, 41063), (265, 41168), (268, 41189), (274, 41246), (275, 41252),

Gene: Timinator_35 Start: 29826, Stop: 30671, Start Num: 43
Candidate Starts for Timinator_35:
(Start: 43 @29826 has 130 MA's), (78, 29919), (79, 29922), (85, 29943), (91, 29973), (112, 30051), (121, 30108), (137, 30156), (147, 30207), (148, 30210), (150, 30225), (162, 30273), (167, 30291), (182, 30351), (189, 30393), (194, 30432), (196, 30450), (199, 30468), (204, 30489), (207, 30507), (221, 30537), (230, 30576), (233, 30588), (236, 30594),

Gene: Toad24_41 Start: 27438, Stop: 28244, Start Num: 41
Candidate Starts for Toad24_41:
(Start: 41 @27438 has 23 MA's), (75, 27534), (78, 27543), (85, 27567), (86, 27579), (91, 27597), (152, 27891), (170, 27972), (176, 27990), (196, 28098), (201, 28125), (228, 28212),

Gene: Toniann_91 Start: 55976, Stop: 56701, Start Num: 61
Candidate Starts for Toniann_91:
(6, 55676), (8, 55703), (9, 55706), (10, 55709), (17, 55817), (Start: 61 @55976 has 19 MA's), (87, 56084), (92, 56102), (96, 56117), (97, 56120), (109, 56171), (120, 56234), (135, 56261), (141, 56294), (148, 56333), (156, 56372), (165, 56402), (169, 56429), (179, 56474), (196, 56555), (200, 56579), (214, 56624), (222, 56654),

Gene: Tophat_47 Start: 37422, Stop: 38381, Start Num: 56
Candidate Starts for Tophat_47:
(Start: 56 @37422 has 19 MA's), (64, 37449), (68, 37461), (77, 37494), (82, 37512), (94, 37572), (143, 37785), (146, 37797), (167, 37911), (175, 37938), (186, 37998), (196, 38058), (204, 38097), (218, 38139), (248, 38292),

Gene: Tortoise12_47 Start: 32161, Stop: 33222, Start Num: 43
Candidate Starts for Tortoise12_47:
(Start: 43 @32161 has 130 MA's), (50, 32173), (75, 32239), (76, 32242), (78, 32248), (85, 32272), (88, 32293), (90, 32299), (93, 32311), (94, 32314), (96, 32323), (108, 32365), (112, 32380), (128, 32467), (150, 32572), (152, 32581), (162, 32626), (169, 32653), (172, 32665), (178, 32695), (182, 32707), (184, 32722), (189, 32749), (193, 32770), (196, 32803), (198, 32818), (199, 32821), (202, 32833), (204, 32842), (221, 32890), (222, 32896), (236, 32947), (240, 32971), (246, 33004), (247, 33007), (255, 33037), (257, 33043), (267, 33115), (270, 33133), (271, 33142), (275, 33190), (276, 33199),

Gene: Towmatter_83 Start: 58781, Stop: 57948, Start Num: 47
Candidate Starts for Towmatter_83:
(Start: 47 @58781 has 7 MA's), (75, 58691), (92, 58619), (109, 58550), (137, 58442), (149, 58385), (169, 58277), (174, 58259), (196, 58151), (233, 58010), (243, 57956),

Gene: TripleJ_55 Start: 33927, Stop: 34802, Start Num: 47
Candidate Starts for TripleJ_55:
(Start: 47 @33927 has 7 MA's), (78, 34017), (86, 34053), (95, 34089), (106, 34128), (112, 34149), (122, 34203), (143, 34278), (164, 34368), (170, 34395), (172, 34404), (173, 34407), (176, 34416), (182, 34443), (183, 34449), (194, 34506), (196, 34524), (203, 34560), (204, 34563), (225, 34632), (250, 34716),

Gene: Twonlo_45 Start: 38853, Stop: 39911, Start Num: 43
Candidate Starts for Twonlo_45:
(36, 38823), (Start: 43 @38853 has 130 MA's), (78, 38940), (85, 38964), (91, 38994), (108, 39057), (112, 39072), (117, 39105), (142, 39216), (148, 39243), (159, 39297), (175, 39363), (178, 39384), (182, 39396), (184, 39411), (196, 39495), (199, 39513), (203, 39531), (207, 39552), (221, 39582), (244, 39693), (265, 39798), (268, 39819), (274, 39876), (275, 39882),

Gene: Tycho_49 Start: 42039, Stop: 43061, Start Num: 43
Candidate Starts for Tycho_49:
(Start: 43 @42039 has 130 MA's), (Start: 61 @42075 has 19 MA's), (78, 42129), (85, 42153), (91, 42183), (99, 42213), (108, 42246), (112, 42261), (128, 42342), (140, 42390), (142, 42405), (143, 42408), (175, 42552), (182, 42585), (184, 42600), (196, 42669), (198, 42684), (216, 42741), (221, 42756),

Gene: ValentiniPuff_98 Start: 56073, Stop: 56969, Start Num: 45
Candidate Starts for ValentiniPuff_98:
(Start: 45 @56073 has 29 MA's), (74, 56163), (111, 56310), (114, 56328), (168, 56592), (172, 56607), (178, 56637), (192, 56721), (196, 56757), (199, 56775), (229, 56877),

Gene: VanLee_37 Start: 30355, Stop: 31278, Start Num: 52
Candidate Starts for VanLee_37:
(Start: 52 @30355 has 1 MA's), (54, 30361), (67, 30400), (77, 30439), (91, 30499), (102, 30541), (110, 30580), (112, 30586), (116, 30610), (140, 30757), (148, 30799), (155, 30835), (167, 30889), (175, 30916), (181, 30946), (182, 30949), (196, 31048), (201, 31075), (204, 31087), (234, 31186), (239, 31210),

Gene: Venti_47 Start: 32543, Stop: 33535, Start Num: 57
Candidate Starts for Venti_47:
(4, 32222), (17, 32390), (30, 32453), (Start: 57 @32543 has 57 MA's), (Start: 63 @32558 has 1 MA's), (78, 32606), (90, 32657), (114, 32753), (122, 32792), (155, 32927), (181, 33038), (182, 33041), (188, 33080), (194, 33104), (196, 33122), (205, 33167), (218, 33197), (221, 33209), (257, 33353), (271, 33452), (275, 33500), (277, 33524),

Gene: Verity_51 Start: 44353, Stop: 45396, Start Num: 43
Candidate Starts for Verity_51:
(Start: 43 @44353 has 130 MA's), (78, 44443), (85, 44467), (86, 44479), (112, 44575), (159, 44782), (175, 44848), (184, 44896), (196, 44968), (198, 44983), (203, 45004), (207, 45025), (209, 45028), (221, 45055), (240, 45133), (244, 45166), (249, 45178), (268, 45301), (272, 45328), (275, 45364),

Gene: ViaConlectus_51 Start: 42237, Stop: 43280, Start Num: 43

Candidate Starts for ViaConlectus_51:
(Start: 43 @42237 has 130 MA's), (78, 42330), (85, 42354), (86, 42366), (91, 42384), (112, 42462), (117, 42495), (159, 42669), (175, 42735), (184, 42783), (196, 42855), (198, 42870), (203, 42891), (207, 42912), (209, 42915), (240, 43020), (244, 43053), (249, 43065), (272, 43212), (275, 43248),

Gene: Vidya_46 Start: 32576, Stop: 33568, Start Num: 57
Candidate Starts for Vidya_46:
(4, 32255), (17, 32423), (30, 32486), (Start: 57 @32576 has 57 MA's), (Start: 63 @32591 has 1 MA's), (78, 32639), (90, 32690), (114, 32786), (122, 32825), (155, 32960), (181, 33071), (182, 33074), (188, 33113), (194, 33137), (196, 33155), (205, 33200), (218, 33230), (221, 33242), (257, 33386), (271, 33485), (275, 33533), (277, 33557),

Gene: Vivi2_55 Start: 44459, Stop: 45457, Start Num: 43
Candidate Starts for Vivi2_55:
(7, 44216), (15, 44318), (Start: 31 @44405 has 1 MA's), (Start: 43 @44459 has 130 MA's), (Start: 61 @44495 has 19 MA's), (78, 44546), (80, 44552), (85, 44570), (91, 44600), (108, 44663), (112, 44678), (121, 44729), (140, 44807), (175, 44969), (182, 45002), (184, 45017), (196, 45086), (198, 45101), (216, 45158), (221, 45173), (267, 45350), (275, 45422),

Gene: Vulpecula_38 Start: 26463, Stop: 27269, Start Num: 41
Candidate Starts for Vulpecula_38:
(Start: 41 @26463 has 23 MA's), (75, 26559), (78, 26568), (86, 26604), (91, 26622), (152, 26916), (160, 26952), (182, 27042), (196, 27123), (228, 27237),

Gene: Westrich_47 Start: 27116, Stop: 27922, Start Num: 41
Candidate Starts for Westrich_47:
(Start: 41 @27116 has 23 MA's), (75, 27212), (78, 27221), (86, 27257), (91, 27275), (113, 27356), (152, 27569), (170, 27650), (176, 27668), (196, 27776), (228, 27890),

Gene: WileyE_40 Start: 26337, Stop: 27143, Start Num: 41
Candidate Starts for WileyE_40:
(Start: 41 @26337 has 23 MA's), (75, 26433), (78, 26442), (91, 26496), (101, 26535), (112, 26574), (170, 26871), (196, 26997), (227, 27108),

Gene: WilliamBoone_90 Start: 54745, Stop: 55467, Start Num: 61
Candidate Starts for WilliamBoone_90:
(10, 54469), (12, 54514), (33, 54655), (Start: 61 @54745 has 19 MA's), (87, 54853), (92, 54871), (96, 54886), (97, 54889), (109, 54940), (135, 55030), (141, 55063), (156, 55141), (165, 55171), (191, 55300), (196, 55324), (199, 55342), (214, 55393), (222, 55423), (229, 55450),

Gene: Willsammy_45 Start: 32283, Stop: 33257, Start Num: 57
Candidate Starts for Willsammy_45:
(Start: 57 @32283 has 57 MA's), (Start: 63 @32301 has 1 MA's), (78, 32349), (90, 32400), (94, 32415), (96, 32424), (122, 32535), (155, 32670), (181, 32781), (182, 32784), (188, 32823), (194, 32847), (196, 32865), (205, 32910), (218, 32940), (221, 32952), (236, 33009), (257, 33078), (271, 33177), (275, 33225),

Gene: Wyborn_36 Start: 29985, Stop: 30836, Start Num: 43
Candidate Starts for Wyborn_36:
(Start: 43 @29985 has 130 MA's), (79, 30078), (83, 30093), (85, 30099), (91, 30129), (96, 30150), (112, 30207), (137, 30312), (148, 30366), (162, 30429), (182, 30507), (189, 30549), (196, 30606), (199, 30624), (204, 30645), (207, 30663), (221, 30693), (225, 30705),

Gene: Xavia_54 Start: 39834, Stop: 40823, Start Num: 60
Candidate Starts for Xavia_54:
(20, 39696), (22, 39705), (35, 39759), (37, 39768), (Start: 60 @39834 has 1 MA's), (70, 39873), (78, 39894), (84, 39915), (86, 39930), (90, 39945), (95, 39966), (103, 39987), (109, 40014), (112, 40026), (115, 40047), (118, 40062), (122, 40083), (127, 40098), (143, 40158), (155, 40218), (170, 40284), (181, 40329), (182, 40332), (183, 40338), (184, 40347), (196, 40413), (215, 40482), (221, 40500), (229, 40530), (233, 40545), (245, 40590), (252, 40614), (257, 40644), (260, 40662), (271, 40743), (276, 40800),

Gene: Xeno_48 Start: 31878, Stop: 32852, Start Num: 57
Candidate Starts for Xeno_48:
(Start: 57 @31878 has 57 MA's), (Start: 63 @31896 has 1 MA's), (78, 31944), (90, 31995), (94, 32010), (96, 32019), (122, 32130), (155, 32265), (181, 32376), (182, 32379), (188, 32418), (194, 32442), (196, 32460), (205, 32505), (218, 32535), (221, 32547), (236, 32604), (257, 32673), (271, 32772), (275, 32820),

Gene: Xerxes_48 Start: 33475, Stop: 34536, Start Num: 43
Candidate Starts for Xerxes_48:
(Start: 43 @33475 has 130 MA's), (50, 33487), (75, 33553), (76, 33556), (78, 33562), (85, 33586), (88, 33607), (90, 33613), (93, 33625), (94, 33628), (96, 33637), (108, 33679), (112, 33694), (128, 33781), (150, 33886), (152, 33895), (162, 33940), (169, 33967), (172, 33979), (178, 34009), (182, 34021), (184, 34036), (189, 34063), (193, 34084), (196, 34117), (198, 34132), (199, 34135), (202, 34147), (204, 34156), (221, 34204), (222, 34210), (236, 34261), (240, 34285), (246, 34318), (247, 34321), (255, 34351), (257, 34357), (267, 34429), (270, 34447), (271, 34456), (275, 34504), (276, 34513),

Gene: Xula_43 Start: 32303, Stop: 33298, Start Num: 57
Candidate Starts for Xula_43:
(21, 32168), (Start: 57 @32303 has 57 MA's), (Start: 63 @32318 has 1 MA's), (78, 32366), (90, 32417), (96, 32441), (122, 32552), (155, 32687), (181, 32798), (182, 32801), (188, 32840), (194, 32864), (196, 32882), (205, 32927), (218, 32957), (221, 32969), (236, 33026), (257, 33116), (271, 33215), (275, 33263), (277, 33287),

Gene: YorkOnyx_51 Start: 42735, Stop: 43757, Start Num: 43
Candidate Starts for YorkOnyx_51:
(7, 42492), (15, 42594), (Start: 31 @42681 has 1 MA's), (Start: 43 @42735 has 130 MA's), (Start: 61 @42771 has 19 MA's), (78, 42825), (85, 42849), (91, 42879), (99, 42909), (108, 42942), (112, 42957), (128, 43038), (140, 43086), (142, 43101), (143, 43104), (175, 43248), (182, 43281), (184, 43296), (196, 43365), (198, 43380), (216, 43437),

Gene: Yvonnetastic_106 Start: 61147, Stop: 61839, Start Num: 61
Candidate Starts for Yvonnetastic_106:
(Start: 61 @61147 has 19 MA's), (75, 61201), (84, 61234), (92, 61273), (102, 61309), (104, 61318), (109, 61342), (111, 61351), (112, 61354), (137, 61450), (148, 61504), (160, 61561), (167, 61597), (174, 61621), (179, 61648), (181, 61654), (196, 61729), (204, 61768), (206, 61783), (208, 61789),

Gene: Zartrosa_35 Start: 29654, Stop: 30517, Start Num: 43
Candidate Starts for Zartrosa_35:
(Start: 43 @29654 has 130 MA's), (78, 29744), (79, 29747), (85, 29768), (96, 29819), (112, 29876), (137, 29981), (157, 30071), (159, 30083), (162, 30098), (182, 30176), (186, 30203), (189, 30218), (194, 30260), (196, 30278), (199, 30296), (204, 30317), (207, 30335), (230, 30404), (236, 30422), (254, 30494),

Gene: Zhuangyuan_43 Start: 26808, Stop: 27620, Start Num: 41

Candidate Starts for Zhuangyuan_43:
(Start: 41 @26808 has 23 MA's), (Start: 61 @26853 has 19 MA's), (65, 26871), (78, 26916), (91, 26970), (118, 27087), (124, 27117), (143, 27216), (147, 27237), (162, 27309), (171, 27348), (196, 27474), (221, 27561),

Gene: Zilizebeth_47 Start: 32575, Stop: 33567, Start Num: 57
Candidate Starts for Zilizebeth_47:
(4, 32254), (17, 32422), (30, 32485), (Start: 57 @32575 has 57 MA's), (Start: 63 @32590 has 1 MA's), (78, 32638), (90, 32689), (114, 32785), (122, 32824), (155, 32959), (181, 33070), (182, 33073), (188, 33112), (194, 33136), (196, 33154), (205, 33199), (218, 33229), (221, 33241), (257, 33385), (271, 33484), (275, 33532), (277, 33556),

Gene: Zipp_52 Start: 44268, Stop: 45311, Start Num: 43
Candidate Starts for Zipp_52:
(Start: 43 @44268 has 130 MA's), (78, 44358), (85, 44382), (86, 44394), (112, 44490), (159, 44697), (175, 44763), (184, 44811), (196, 44883), (198, 44898), (203, 44919), (207, 44940), (209, 44943), (221, 44970), (240, 45048), (244, 45081), (249, 45093), (268, 45216), (272, 45243), (275, 45279),

Gene: Zitch_54 Start: 42394, Stop: 43437, Start Num: 43
Candidate Starts for Zitch_54:
(Start: 43 @42394 has 130 MA's), (78, 42484), (85, 42508), (86, 42520), (91, 42538), (112, 42616), (117, 42649), (159, 42823), (175, 42889), (184, 42937), (196, 43009), (198, 43024), (203, 43045), (207, 43066), (209, 43069), (240, 43174), (244, 43207), (249, 43219), (272, 43369),

Gene: Zixiang_42 Start: 26803, Stop: 27609, Start Num: 41
Candidate Starts for Zixiang_42:
(Start: 41 @26803 has 23 MA's), (75, 26899), (78, 26908), (85, 26932), (86, 26944), (91, 26962), (152, 27256), (170, 27337), (176, 27355), (196, 27463), (201, 27490), (228, 27577),