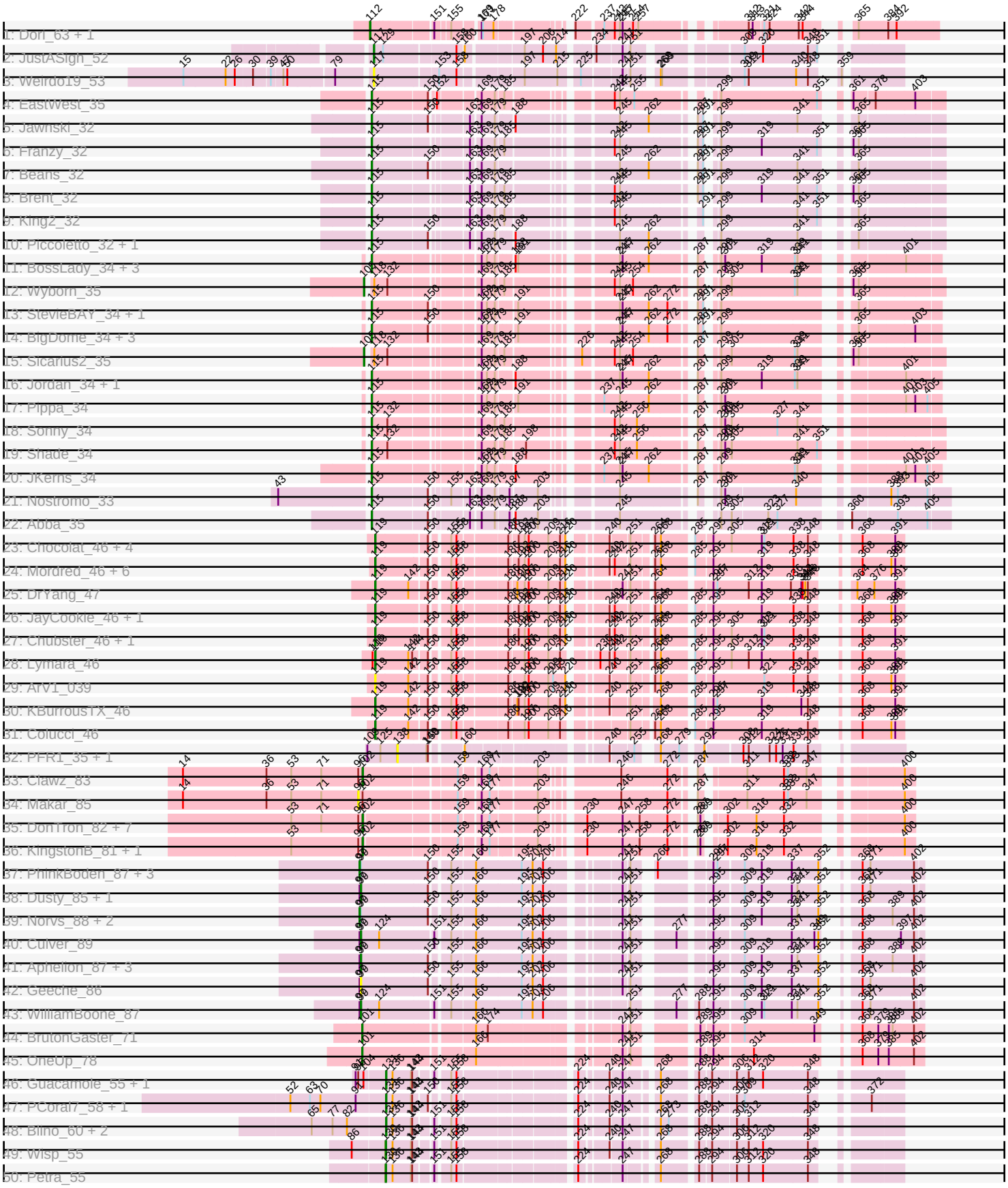
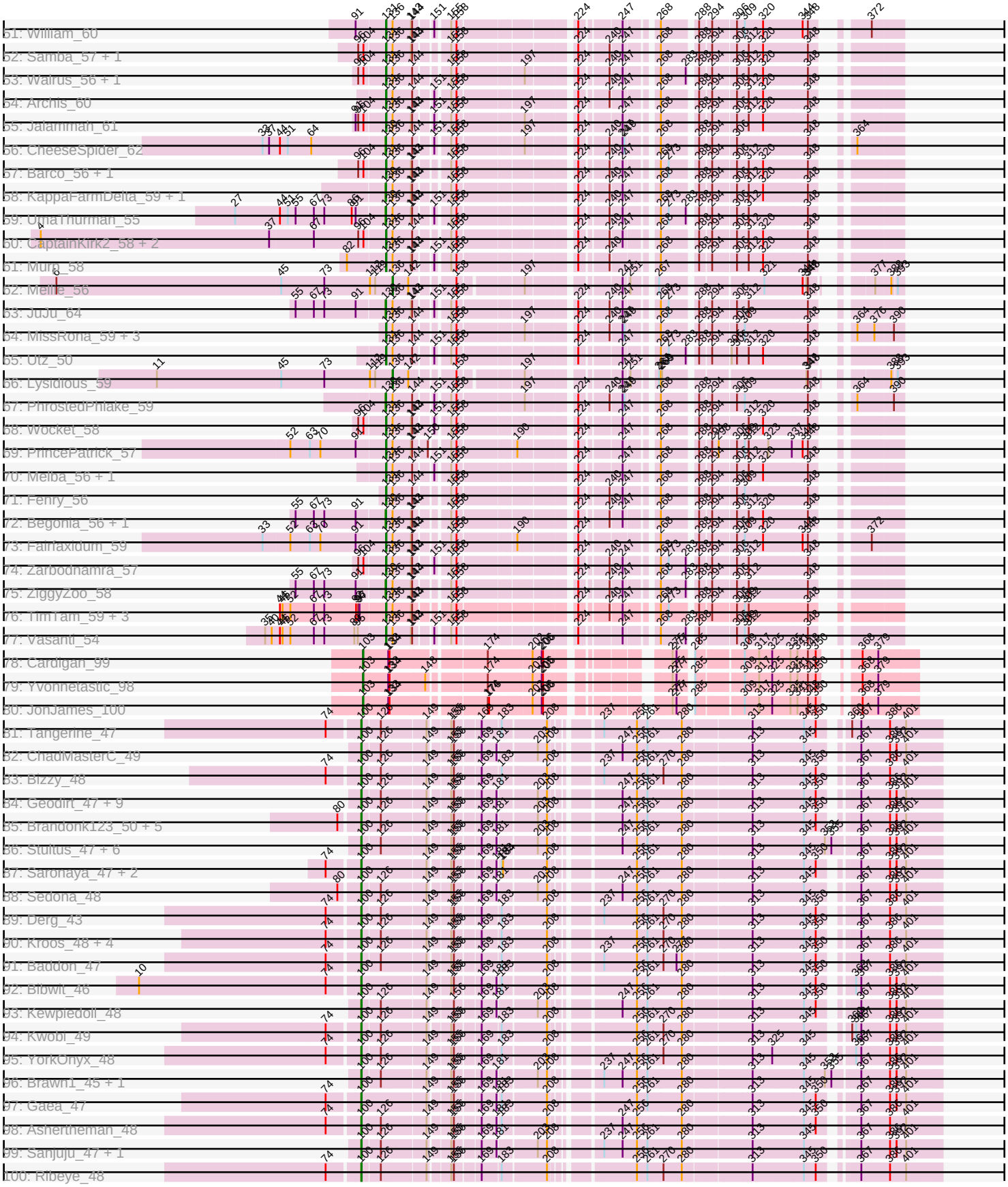
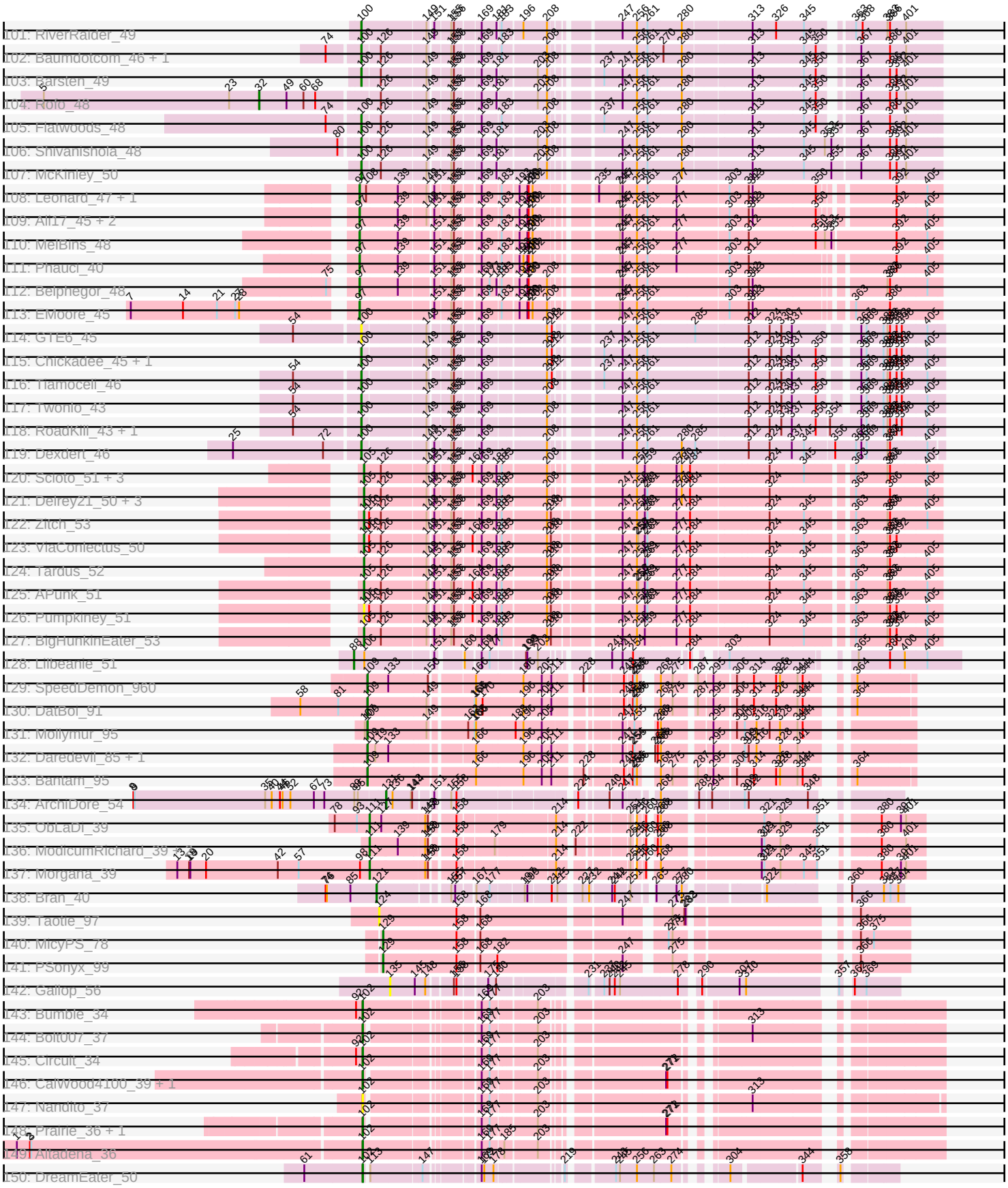
Pham 347140


1: Dori_63 + 1
2: JustASigh_52
3: Weirdo19_53
4: EastWest_35
5: Jawnski_32
6: Franzy_32
7: Beans_32
8: Brent_32
9: King2_32
10: Piccoletto_32 + 1
11: BossLady_34 + 3
12: Wyborn_35
13: StevieBAY_34 + 1
14: BigDome_34 + 3
15: Sicarius2_35
16: Jordan_34 + 1
17: Pippa_34
18: Sonny_34
19: Shade_34
20: JKerns_34
21: Nostromo_33
22: Abba_35
23: Chocolat_46 + 4
24: Mordred_46 + 6
25: DrYang_47
26: JayCookie_46 + 1
27: Chubster_46 + 1
28: Lymara_46
29: ARV1_039
30: KBurrousTX_46
31: Colucci_46
32: PFR1_35 + 1
33: Clawz_83
34: Makar_85
35: DonTron_82 + 7
36: KingstonB_81 + 1
37: PhinkBoden_87 + 3
38: Dusty_85 + 1
39: Norvs_88 + 2
40: Culver_89
41: Aphelion_87 + 3
42: Geeche_86
43: WilliamBoone_87
44: BrutonGaster_71
45: OneUp_78
46: Guacamole_55 + 1
47: PCoral7_58 + 1
48: Bilno_60 + 2
49: Wisp_55
50: Petra_55

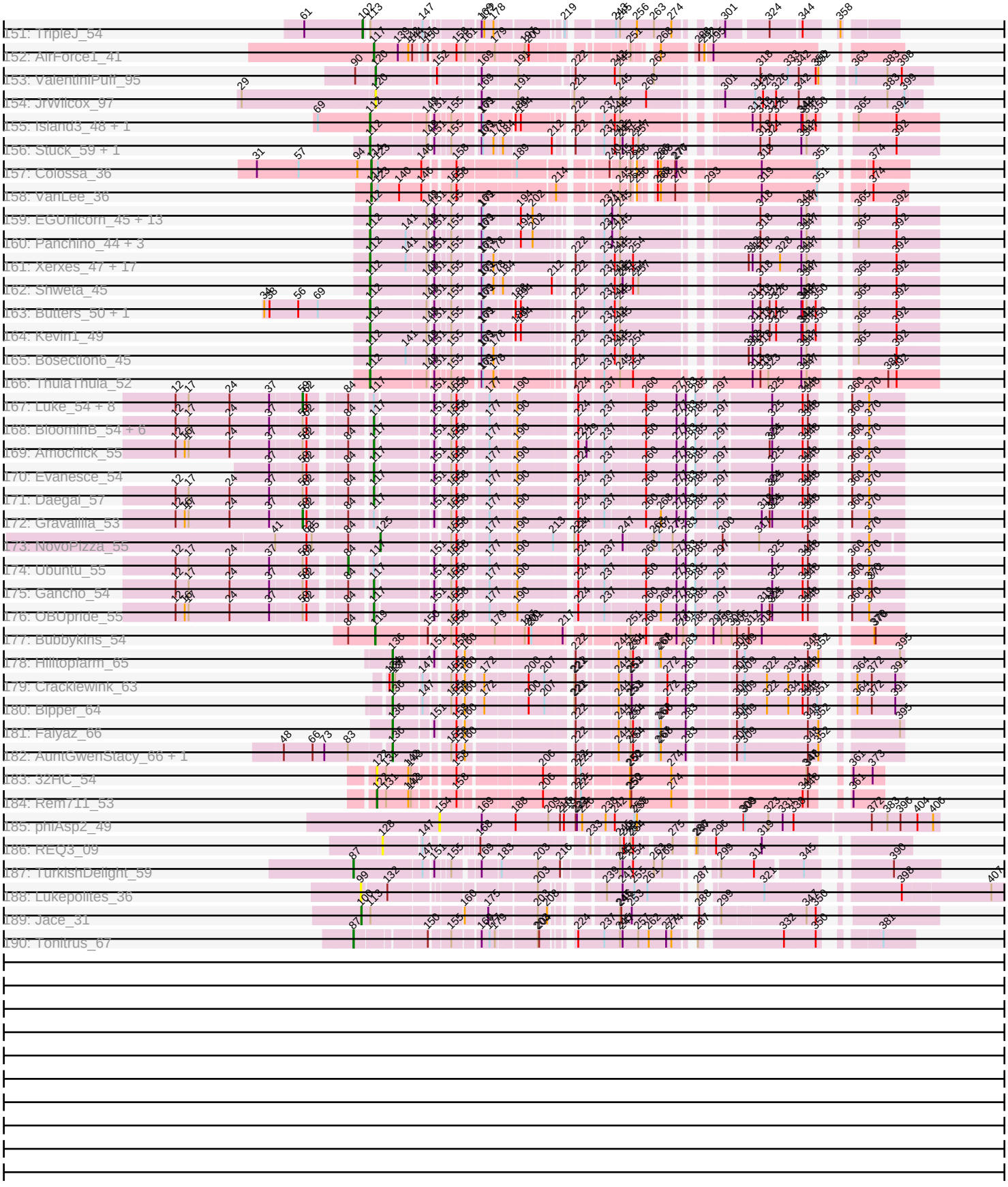
Pham 347140


51: William_60
52: Samba_57 + 1
53: Walrus_56 + 1
54: Archis_60
55: Jalamman_61
56: CheeseSpider_62
57: Barco_56 + 1
58: KappaFarmDelta_59 + 1
59: OlgaThurman_55
60: CaptainKirk2_58 + 2
61: Murg_58
62: Mellie_56
63: JuJu_64
64: MissRona_59 + 3
65: Utz_50
66: Lysidious_59
67: PhrostedPhlake_59
68: Wocket_58
69: PrincePatrick_57
70: Melba_56 + 1
71: Fenry_56
72: Begonia_56 + 1
73: Fairaxidum_59
74: Zarboonamra_57
75: ZiggyZoo_58
76: TimTam_59 + 3
77: Vasanti_54
78: Cardigan_99
79: Yvonnetastic_98
80: JonJames_100
81: Tangerine_47
82: ChadMasterC_49
83: Bizzy_48
84: Geodirt_47 + 9
85: Brandonk123_50 + 5
86: Stultus_47 + 6
87: Saronaya_47 + 2
88: Sedona_48
89: Derg_43
90: Kroos_48 + 4
91: Baddon_47
92: Bibwit_46
93: Kewpiedoll_48
94: Kwobi_49
95: YorkOnyx_48
96: Brawn1_45 + 1
97: Gaea_47
98: Ashertheman_48
99: Sanjuju_47 + 1
100: Ribeye_48

Pham 347140


I01: RiverRaider_49
I02: Baumdotcom_46 + 1
I03: Barsten_49
I04: Rolo_48
I05: Flatwoods_48
I06: Shivanishola_48
I07: McKinley_50
I08: Leonard_47 + 1
I09: Alli7_45 + 2
I10: MelBins_48
I11: Phauci_40
I12: Belphegor_48
I13: EMoore_45
I14: GYE6_45
I15: Chickadee_45 + 1
I16: Tiamocell_46
I17: Twonio_43
I18: RoadKill_43 + 1
I19: Dexdert_46
I20: Scioto_51 + 3
I21: Delrey21_50 + 3
I22: Zitch_53
I23: ViaConiectus_50
I24: Tardus_52
I25: APunk_51
I26: Pumpkiney_51
I27: BigHunkinEater_53
I28: Lilbeanie_51
I29: SpeedDemon_960
I30: DatBoi_91
I31: Mollymur_95
I32: Daredevil_85 + 1
I33: Bantam_95
I34: ArchiDore_54
I35: ObLaDi_39
I36: ModicumRichard_39 + 1
I37: Morgana_39
I38: Bran_40
I39: Taotie_97
I40: MicyPS_78
I41: PSonyx_99
I42: Gallop_56
I43: Bumble_34
I44: Bolt007_37
I45: Circuit_34
I46: CalWood4100_39 + 1
I47: Nandito_37
I48: Prairie_36 + 1
I49: Altadena_36
I50: DreamEater_50

Pham 347140


151: TripleJ_54
152: AirForce1_41
153: ValentiniPuff_95
154: JrWilcox_97
155: Island3_48 + 1
156: Stuck_59 + 1
157: Colossa_36
158: VanLee_36
159: EGOnicorn_45 + 13
160: Panchino_44 + 3
161: Xerxes_47 + 17
162: Shweta_45
163: Butters_50 + 1
164: Kevin1_49
165: Bosection6_45
166: ThulaThula_52
167: Luke_54 + 8
168: BloomInB_54 + 6
169: Amochick_55
170: Evanesce_54
171: Daegal_57
172: Gravalilla_53
173: NovoPizza_55
174: Ubuntu_55
175: Gancho_54
176: OBUpride_55
177: Bubbykins_54
178: Hilltoplarm_65
179: Cracklewink_63
180: Bipper_64
181: Faiyaz_66
182: AuntGwenStacy_66 + 1
183: 32HC_54
184: Rem711_53
185: phiAsp2_49
186: REQ3_09
187: TurkishDelight_59
188: Lukepolites_36
189: Jace_31
190: Tonitrus_67

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 347140 Report

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

Pham number 347140 has 344 members, 30 are drafts.

Phages represented in each track:
• Track 1 : Dori_63, Mask_63
• Track 2 : JustASigh_52
• Track 3 : Weirdo19_53
• Track 4 : EastWest_35
• Track 5 : Jawnski_32
• Track 6 : Franzy_32
• Track 7 : Beans_32
• Track 8 : Brent_32
• Track 9 : King2_32
• Track 10 : Piccoletto_32, NathanVaag_32
• Track 11 : BossLady_34, TaeYoung_34, Grekaycon_34, Martha_34
• Track 12 : Wyborn_35
• Track 13 : StevieBAY_34, GravityBall_34
• Track 14 : BigDome_34, BarretLemon_34, Timinator_34, LeeroyJ_34
• Track 15 : Sicarius2_35
• Track 16 : Jordan_34, Zartrosa_34
• Track 17 : Pippa_34
• Track 18 : Sonny_34
• Track 19 : Shade_34
• Track 20 : JKerns_34
• Track 21 : Nostromo_33
• Track 22 : Abba_35
• Track 23 : Chocolat_46, Linus_46, EdgarPoe_46, Conboy_46, PrincessTrina_46
• Track 24 : Mordred_46, RosiePosie_46, Tophat_46, Kabreeze_46, HumptyDumpty_46, Chipper1996_460, JaNo_46
• Track 25 : DrYang_47
• Track 26 : JayCookie_46, Scavito_46
• Track 27 : Chubster_46, MoyaNatalis_46
• Track 28 : Lymara_46
• Track 29 : ArV1_039
• Track 30 : KBurrousTX_46
• Track 31 : Colucci_46
• Track 32 : PFR1_35, PFR2_37
• Track 33 : Clawz_83
• Track 34 : Makar_85
• Track 35 : DonTron_82, Sting_81, ColdSoup_85, Jollymon_82, Amo99_85, Soos_78, Grumio_83, Purplicious_82

• Track 36 : KingstonB_81, Stillion_82
• Track 37 : PhinkBoden_87, Bachita_89, Cucurbita_89, Engineer_89
• Track 38 : Dusty_85, Abscondus_87
• Track 39 : Norvs_88, Smoothie_89, ClubL_87
• Track 40 : Culver_89
• Track 41 : Aphelion_87, Lozinak_88, Miskis_80, Toniann_88
• Track 42 : Geeche_86
• Track 43 : WilliamBoone_87
• Track 44 : BrutonGaster_71
• Track 45 : OneUp_78
• Track 46 : Guacamole_55, JasperJr_55
• Track 47 : PCoral7_58, Toast_58
• Track 48 : Blino_60, CarolAnn_59, Soilmate_62
• Track 49 : Wisp_55
• Track 50 : Petra_55
• Track 51 : William_60
• Track 52 : Samba_57, Hitter_58
• Track 53 : Walrus_56, Pipp_60
• Track 54 : Archis_60
• Track 55 : Jalammah_61
• Track 56 : CheeseSpider_62
• Track 57 : Barco_56, Zilla_56
• Track 58 : KappaFarmDelta_59, Obliviate_54
• Track 59 : UmaThurman_55
• Track 60 : CaptainKirk2_58, MintFen_58, Delian_61
• Track 61 : Murp_58
• Track 62 : Mellie_56
• Track 63 : JuJu_64
• Track 64 : MissRona_59, Blueberry_58, Gambino_61, Azula_59
• Track 65 : Utz_50
• Track 66 : Lysidious_59
• Track 67 : PhrostedPhlake_59
• Track 68 : Wocket_58
• Track 69 : PrincePatrick_57
• Track 70 : Melba_56, BlingBling_54
• Track 71 : Fenry_56
• Track 72 : Begonia_56, Malachai_56
• Track 73 : Fairfaxidum_59
• Track 74 : Zarbodnamra_57
• Track 75 : ZiggyZoo_58
• Track 76 : TimTam_59, Eviarto_59, Nymphadora_59, BatStarr_58
• Track 77 : Vasanti_54
• Track 78 : Cardigan_99
• Track 79 : Yvonnetastic_98
• Track 80 : JonJames_100
• Track 81 : Tangerine_47
• Track 82 : ChadMasterC_49
• Track 83 : Bizzy_48
• Track 84 : Geodirt_47, Fosterous_46, Love_52, Kamashten_46, Tangent_49, MoontowerMania_48, Charming_49, Vivi2_51, Thing3_46, FuegoCuervo_51
• Track 85 : Brandonk123_50, McCrothy_48, Paries_51, BobBob_46, Galadriel_48, Nordenberg_43

• Track 86 : Stultus_47, Angelicage_46, Affeca_46, Keitabear_48, Lennon_48, Sitar_48, Ailee_45
• Track 87 : Saronaya_47, JKSyngboy_45, Gustavo_47
• Track 88 : Sedona_48
• Track 89 : Derg_43
• Track 90 : Kroos_48, SchottB_46, Stichling_45, StorminNorm_47, Tycho_47
• Track 91 : Baddon_47
• Track 92 : Bibwit_46
• Track 93 : Kewpiedoll_48
• Track 94 : Kwobi_49
• Track 95 : YorkOnyx_48
• Track 96 : Brawn1_45, Jabberwocky_47
• Track 97 : Gaea_47
• Track 98 : Ashertheman_48
• Track 99 : Sanjuju_47, Fitzgerald_47
• Track 100 : Ribeye_48
• Track 101 : RiverRaider_49
• Track 102 : Baumdotcom_46, LilHam_45
• Track 103 : Barsten_49
• Track 104 : Rofo_48
• Track 105 : Flatwoods_48
• Track 106 : Shivanishola_48
• Track 107 : McKinley_50
• Track 108 : Leonard_47, Phinally_47
• Track 109 : Ali17_45, Hans_49, Inspectinfecti_48
• Track 110 : MelBins_48
• Track 111 : Phauci_40
• Track 112 : Belphegor_48
• Track 113 : EMoore_45
• Track 114 : GTE6_45
• Track 115 : Chickadee_45, Kwekel_45
• Track 116 : Tiamoceli_46
• Track 117 : Twonlo_43
• Track 118 : RoadKill_43, EdmundFerry_44
• Track 119 : Dexdert_46
• Track 120 : Scioto_51, Abblin_50, Sampson_50, Natkenzie_50
• Track 121 : Delrey21_50, DoctorFroggo_50, Zipp_51, Verity_50
• Track 122 : Zitch_53
• Track 123 : ViaConlectus_50
• Track 124 : Tardus_52
• Track 125 : APunk_51
• Track 126 : Pumpkiney_51
• Track 127 : BigHunkinEater_53
• Track 128 : Lilbeanie_51
• Track 129 : SpeedDemon_960
• Track 130 : DatBoi_91
• Track 131 : Mollymur_95
• Track 132 : Daredevil_85, Towmatter_84
• Track 133 : Bantam_95
• Track 134 : ArchiDore_54
• Track 135 : ObLaDi_39
• Track 136 : ModicumRichard_39, Aleemily_38, Cafasso_39
• Track 137 : Morgana_39

• Track 138 : Bran_40
• Track 139 : Taotie_97
• Track 140 : MicyPS_78
• Track 141 : PSonyx_99
• Track 142 : Gallop_56
• Track 143 : Bumble_34
• Track 144 : Bolt007_37
• Track 145 : Circuit_34
• Track 146 : CalWood4100_39, Lilmac1015_39
• Track 147 : Nandito_37
• Track 148 : Prairie_36, Klevey_37
• Track 149 : Altadena_36
• Track 150 : DreamEater_50
• Track 151 : TripleJ_54
• Track 152 : AirForce1_41
• Track 153 : ValentiniPuff_95
• Track 154 : JrWilcox_97
• Track 155 : Island3_48, Brujita_48
• Track 156 : Stuck_59, Bluvara_52
• Track 157 : Colossa_36
• Track 158 : VanLee_36
• Track 159 : EGUnicorn_45, Spinach_51, BabeRuth_52, ShrimpFriedEgg_51, Redi_51, PhancyPhin_51, Rebel_43, Nenae_51, Purgamenstris_51, Raymond7_45, Impisi_52, Hanako_51, Andies_44, Phrann_48
• Track 160 : Panchino_44, Jamie19_45, SpongeBob_45, Snekmaggedon_45
• Track 161 : Xerxes_47, Tortoise12_46, Pipsqueaks_47, Smurph_47, Tapioca_49, Carcharodon_47, Tessdabest_48, Parmesanjohn_47, Scitech_44, Silvafighter_48, Schnauzer_48, Fulbright_46, Melville_50, Magsby_47, Phloss_45, Gex_47, Chewbacca_49, Duplicity_47
• Track 162 : Shweta_45
• Track 163 : Butters_50, Rubeelu_50
• Track 164 : Kevin1_49
• Track 165 : Bosection6_45
• Track 166 : ThulaThula_52
• Track 167 : Luke_54, Wishmaker_52, Kinbote_54, Dewey_52, Hail_52, Giles_52, Forge_52, Luna22_52, Hadrien_54
• Track 168 : BloominB_54, Ein37_55, Amymech_55, HH92_54, Webster2_55, LilHazelnut_55, DeepSoil15_55
• Track 169 : Amochick_55
• Track 170 : Evanesce_54
• Track 171 : Daegal_57
• Track 172 : Gravaillia_53
• Track 173 : NovoPizza_55
• Track 174 : Ubuntu_55
• Track 175 : Gancho_54
• Track 176 : OBUpride_55
• Track 177 : Bubbykins_54
• Track 178 : Hilltopfarm_65
• Track 179 : Cracklewink_63
• Track 180 : Bipper_64
• Track 181 : Faiyaz_66
• Track 182 : AuntGwenStacy_66, Typha_65
• Track 183 : 32HC_54

• Track 184 : Rem711_53
• Track 185 : phiAsp2_49
• Track 186 : REQ3_09
• Track 187 : TurkishDelight_59
• Track 188 : Lukepolites_36
• Track 189 : Jace_31
• Track 190 : Tonitrus_67

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

The start number called the most often in the published annotations is 100, it was called in 60 of the 314 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Affeca_46, Ailee_45, Angelicage_46, Ashertheman_48, Baddon_47, Barsten_49, Baumdotcom_46, Bibwit_46, Bizzy_48, BobBob_46, Brandonk123_50, Brawn1_45, ChadMasterC_49, Charming_49, Chickadee_45, Derg_43, Dexdert_46, EdmundFerry_44, Fitzgerald_47, Flatwoods_48, Fosterous_46, FuegoCuervo_51, GTE6_45, Gaea_47, Galadriel_48, Geodirt_47, Gustavo_47, JKSyngboy_45, Jabberwocky_47, Jace_31, Kamashten_46, Keitabear_48, Kewpiedoll_48, Kroos_48, Kwekel_45, Kwobi_49, Lennon_48, LilHam_45, Love_52, McCrothy_48, McKinley_50, MoontowerMania_48, Nordenberg_43, Paries_51, Ribeye_48, RiverRaider_49, RoadKill_43, Sanjuju_47, Saronaya_47, SchottB_46, Sedona_48, Shivanishola_48, Sitar_48, Stichling_45, StorminNorm_47, Stultus_47, Tangent_49, Tangerine_47, Thing3_46, Tiamoceli_46, Twonlo_43, Tycho_47, Vivi2_51, YorkOnyx_48,

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

Genes that do not have the "Most Annotated" start:
• 32HC_54, APunk_51, Abba_35, Abblin_50, Abscondus_87, AirForce1_41, Aleemily_38, Ali17_45, Altadena_36, Amo99_85, Amochick_55, Amymech_55, Andies_44, Aphelion_87, ArV1_039, ArchiDore_54, Archis_60, AuntGwenStacy_66, Azula_59, BabeRuth_52, Bachita_89, Bantam_95, Barco_56, BarretLemon_34, BatStarr_58, Beans_32, Begonia_56, Belphegor_48, BigDome_34, BigHunkinEater_53, Bipper_64, BlingBling_54, Blino_60, BloominB_54, Blueberry_58, Bluvara_52, Bolt007_37, Bosection6_45, BossLady_34, Bran_40, Brent_32, Brujita_48, BrutonGaster_71, Bubbykins_54, Bumble_34, Butters_50, Cafasso_39, CalWood4100_39, CaptainKirk2_58, Carcharodon_47, Cardigan_99, CarolAnn_59, CheeseSpider_62, Chewbacca_49, Chipper1996_460, Chocolat_46, Chubster_46, Circuit_34, Clawz_83, ClubL_87, ColdSoup_85, Colossa_36, Colucci_46, Conboy_46, Cracklewink_63, Cucurbita_89, Culver_89, Daegal_57, Daredevil_85, DatBoi_91, DeepSoil15_55, Delian_61, Delrey21_50, Dewey_52, DoctorFroggo_50, DonTron_82, Dori_63, DrYang_47, DreamEater_50, Duplicity_47, Dusty_85, EGUnicorn_45, EMoore_45, EastWest_35, EdgarPoe_46, Ein37_55, Engineer_89, Evanesce_54, Eviarto_59, Fairfaxidum_59, Faiyaz_66, Fenry_56, Forge_52, Franzy_32, Fulbright_46, Gallop_56, Gambino_61, Gancho_54, Geeche_86, Gex_47, Giles_52, Gravaillia_53, GravityBall_34, Grekaycon_34, Grumio_83, Guacamole_55, HH92_54, Hadrien_54, Hail_52, Hanako_51, Hans_49,

Hilltopfarm_65, Hitter_58, HumptyDumpty_46, Impisi_52, Inspectinfecti_48, Island3_48, JKerns_34, JaNo_46, Jalammah_61, Jamie19_45, JasperJr_55, Jawnski_32, JayCookie_46, Jollymon_82, JonJames_100, Jordan_34, JrWilcox_97, JuJu_64, JustASigh_52, KBurrousTX_46, Kabreeze_46, KappaFarmDelta_59, Kevin1_49, Kinbote_54, King2_32, KingstonB_81, Klevey_37, LeeroyJ_34, Leonard_47, LilHazelnut_55, Lilbeanie_51, Lilmac1015_39, Linus_46, Lozinak_88, Luke_54, Lukepolites_36, Luna22_52, Lymara_46, Lysidious_59, Magsby_47, Makar_85, Malachai_56, Martha_34, Mask_63, MelBins_48, Melba_56, Mellie_56, Melville_50, MicyPS_78, MintFen_58, Miskis_80, MissRona_59, ModicumRichard_39, Mollymur_95, Mordred_46, Morgana_39, MoyaNatalis_46, Murp_58, Nandito_37, NathanVaag_32, Natkenzie_50, Nenae_51, Norvs_88, Nostromo_33, NovoPizza_55, Nymphadora_59, OBUpride_55, ObLaDi_39, Obliviate_54, OneUp_78, PCoral7_58, PFR1_35, PFR2_37, PSonyx_99, Panchino_44, Parmesanjohn_47, Petra_55, PhancyPhin_51, Phauci_40, Phinally_47, PhinkBoden_87, Phloss_45, Phrann_48, PhrostedPhlake_59, Piccoletto_32, Pipp_60, Pippa_34, Pipsqueaks_47, Prairie_36, PrincePatrick_57, PrincessTrina_46, Pumpkiney_51, Purgamenstris_51, Purplicious_82, REQ3_09, Raymond7_45, Rebel_43, Redi_51, Rem711_53, Rofo_48, RosiePosie_46, Rubeelu_50, Samba_57, Sampson_50, Scavito_46, Schnauzer_48, Scioto_51, Scitech_44, Shade_34, ShrimpFriedEgg_51, Shweta_45, Sicarius2_35, Silvafighter_48, Smoothie_89, Smurph_47, Snekmaggedon_45, Soilmate_62, Sonny_34, Soos_78, SpeedDemon_960, Spinach_51, SpongeBob_45, StevieBAY_34, Stillion_82, Sting_81, Stuck_59, TaeYoung_34, Taotie_97, Tapioca_49, Tardus_52, Tessdabest_48, ThulaThula_52, TimTam_59, Timinator_34, Toast_58, Toniann_88, Tonitrus_67, Tophat_46, Tortoise12_46, Towmatter_84, TripleJ_54, TurkishDelight_59, Typha_65, Ubuntu_55, UmaThurman_55, Utz_50, ValentiniPuff_95, VanLee_36, Vasanti_54, Verity_50, ViaConlectus_50, Walrus_56, Webster2_55, Weirdo19_53, WilliamBoone_87, William_60, Wishmaker_52, Wisp_55, Wocket_58, Wyborn_35, Xerxes_47, Yvonnetastic_98, Zarbodnamra_57, Zartrosa_34, ZiggyZoo_58, Zilla_56, Zipp_51, Zitch_53, phiAsp2_49,

Summary by start number:

Start 32:
• Found in 1 of 344 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 314
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Rofo_48 (DE1),

Start 59:
• Found in 23 of 344 (6.7%) of genes in pham
• Manual Annotations of this start: 10 of 314
• Called 43.5% of time when present
• Phage (with cluster) where this start called: Dewey_52 (Q), Forge_52 (Q), Giles_52 (Q), Gravaillia_53 (Q), Hadrien_54 (Q), Hail_52 (Q), Kinbote_54 (Q), Luke_54 (Q), Luna22_52 (Q), Wishmaker_52 (Q),

Start 84:
• Found in 25 of 344 (7.3%) of genes in pham
• Manual Annotations of this start: 1 of 314
• Called 4.0% of time when present
• Phage (with cluster) where this start called: Ubuntu_55 (Q),

Start 87:
• Found in 2 of 344 (0.6%) of genes in pham
• Manual Annotations of this start: 2 of 314
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Tonitrus_67 (singleton), TurkishDelight_59 (singleton),

Start 88:
• Found in 1 of 344 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 314
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Lilbeanie_51 (DE5),

Start 96:
• Found in 30 of 344 (8.7%) of genes in pham
• No Manual Annotations of this start.
• Called 3.3% of time when present
• Phage (with cluster) where this start called: Makar_85 (CP),

Start 97:
• Found in 29 of 344 (8.4%) of genes in pham
• Manual Annotations of this start: 16 of 314
• Called 55.2% of time when present
• Phage (with cluster) where this start called: Ali17_45 (DE2), Bachita_89 (CQ1), Belphegor_48 (DE2), ClubL_87 (CQ1), Cucurbita_89 (CQ1), EMoore_45 (DE2), Engineer_89 (CQ1), Hans_49 (DE2), Inspectinfecti_48 (DE2), Leonard_47 (DE2), MelBins_48 (DE2), Norvs_88 (CQ1), Phauci_40 (DE2), Phinally_47 (DE2), PhinkBoden_87 (CQ1), Smoothie_89 (CQ1),

Start 99:
• Found in 17 of 344 (4.9%) of genes in pham
• Manual Annotations of this start: 8 of 314
• Called 58.8% of time when present
• Phage (with cluster) where this start called: Abscondus_87 (CQ1), Aphelion_87 (CQ1), Culver_89 (CQ1), Dusty_85 (CQ1), Geeche_86 (CQ1), Lozinak_88 (CQ1), Lukepolites_36 (singleton), Miskis_80 (CQ1), Toniann_88 (CQ1), WilliamBoone_87 (CQ1),

Start 100:
• Found in 64 of 344 (18.6%) of genes in pham
• Manual Annotations of this start: 60 of 314
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Affeca_46 (DE1), Ailee_45 (DE1), Angelicage_46 (DE1), Ashertheman_48 (DE1), Baddon_47 (DE1), Barsten_49 (DE1), Baumdotcom_46 (DE1), Bibwit_46 (DE1), Bizzy_48 (DE1), BobBob_46 (DE1), Brandonk123_50 (DE1), Brawn1_45 (DE1), ChadMasterC_49 (DE1), Charming_49 (DE1), Chickadee_45 (DE3), Derg_43 (DE1), Dexdert_46 (DE3), EdmundFerry_44 (DE3), Fitzgerald_47 (DE1), Flatwoods_48 (DE1), Fosterous_46 (DE1), FuegoCuervo_51 (DE1), GTE6_45 (DE3), Gaea_47 (DE1), Galadriel_48 (DE1), Geodirt_47 (DE1), Gustavo_47 (DE1), JKSyngboy_45 (DE1), Jabberwocky_47 (DE1), Jace_31 (singleton), Kamashten_46 (DE1), Keitabear_48 (DE1), Kewpiedoll_48 (DE1), Kroos_48 (DE1), Kwekel_45 (DE3), Kwobi_49 (DE1), Lennon_48 (DE1), LilHam_45 (DE1), Love_52 (DE1), McCrothy_48 (DE1), McKinley_50 (DE1),

MoontowerMania_48 (DE1), Nordenberg_43 (DE1), Paries_51 (DE1), Ribeye_48 (DE1), RiverRaider_49 (DE1), RoadKill_43 (DE3), Sanjuju_47 (DE1), Saronaya_47 (DE1), SchottB_46 (DE1), Sedona_48 (DE1), Shivanishola_48 (DE1), Sitar_48 (DE1), Stichling_45 (DE1), StorminNorm_47 (DE1), Stultus_47 (DE1), Tangent_49 (DE1), Tangerine_47 (DE1), Thing3_46 (DE1), Tiamoceli_46 (DE3), Twonlo_43 (DE3), Tycho_47 (DE1), Vivi2_51 (DE1), YorkOnyx_48 (DE1),

Start 101:
• Found in 2 of 344 (0.6%) of genes in pham
• Manual Annotations of this start: 2 of 314
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BrutonGaster_71 (CQ2), OneUp_78 (CQ2),

Start 102:
• Found in 23 of 344 (6.7%) of genes in pham
• Manual Annotations of this start: 16 of 314
• Called 95.7% of time when present
• Phage (with cluster) where this start called: Altadena_36 (FH), Amo99_85 (CP), Bolt007_37 (FH), Bumble_34 (FH), CalWood4100_39 (FH), Circuit_34 (FH), Clawz_83 (CP), ColdSoup_85 (CP), DonTron_82 (CP), DreamEater_50 (FJ), Grumio_83 (CP), Jollymon_82 (CP), KingstonB_81 (CP), Klevey_37 (FH), Lilmac1015_39 (FH), Nandito_37 (FH), Prairie_36 (FH), Purplicious_82 (CP), Soos_78 (CP), Stillion_82 (CP), Sting_81 (CP), TripleJ_54 (FJ),

Start 103:
• Found in 3 of 344 (0.9%) of genes in pham
• Manual Annotations of this start: 3 of 314
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cardigan_99 (DD), JonJames_100 (DD), Yvonnetastic_98 (DD),

Start 105:
• Found in 16 of 344 (4.7%) of genes in pham
• Manual Annotations of this start: 15 of 314
• Called 100.0% of time when present
• Phage (with cluster) where this start called: APunk_51 (DE4), Abblin_50 (DE4), BigHunkinEater_53 (DE4), Delrey21_50 (DE4), DoctorFroggo_50 (DE4), Natkenzie_50 (DE4), Pumpkiney_51 (DE4), Sampson_50 (DE4), Scioto_51 (DE4), Sicarius2_35 (AO2), Tardus_52 (DE4), Verity_50 (DE4), ViaConlectus_50 (DE4), Wyborn_35 (AO2), Zipp_51 (DE4), Zitch_53 (DE4),

Start 109:
• Found in 8 of 344 (2.3%) of genes in pham
• Manual Annotations of this start: 6 of 314
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Bantam_95 (DL), Daredevil_85 (DL), DatBoi_91 (DL), Mollymur_95 (DL), SpeedDemon_960 (DL), Towmatter_84 (DL),

Start 111:
• Found in 5 of 344 (1.5%) of genes in pham
• Manual Annotations of this start: 5 of 314
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Aleemily_38 (DZ), Cafasso_39 (DZ), ModicumRichard_39 (DZ), Morgana_39 (DZ), ObLaDi_39 (DZ),

Start 112:
• Found in 50 of 344 (14.5%) of genes in pham
• Manual Annotations of this start: 44 of 314
• Called 96.0% of time when present
• Phage (with cluster) where this start called: Andies_44 (N), BabeRuth_52 (N), Bluvara_52 (I3), Bosection6_45 (N), Brujita_48 (I1), Butters_50 (N), Carcharodon_47 (N), Chewbacca_49 (N), Dori_63 (AD), Duplicity_47 (N), EGUnicorn_45 (N), Fulbright_46 (N), Gex_47 (N), Hanako_51 (N), Impisi_52 (N), Island3_48 (I1), Jamie19_45 (N), Kevin1_49 (N), Magsby_47 (N), Mask_63 (AD), Melville_50 (N), Nenae_51 (N), Panchino_44 (N), Parmesanjohn_47 (N), PhancyPhin_51 (N), Phloss_45 (N), Phrann_48 (N), Pipsqueaks_47 (N), Purgamenstris_51 (N), Raymond7_45 (N), Rebel_43 (N), Redi_51 (N), Rubeelu_50 (N), Schnauzer_48 (N), Scitech_44 (N), ShrimpFriedEgg_51 (N), Shweta_45 (N), Silvafighter_48 (N), Smurph_47 (N), Snekmaggedon_45 (N), Spinach_51 (N), SpongeBob_45 (N), Stuck_59 (I2), Tapioca_49 (N), Tessdabest_48 (N), ThulaThula_52 (P5), Tortoise12_46 (N), Xerxes_47 (N),

Start 114:
• Found in 2 of 344 (0.6%) of genes in pham
• Manual Annotations of this start: 2 of 314
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Colossa_36 (KA), VanLee_36 (KA),

Start 115:
• Found in 26 of 344 (7.6%) of genes in pham
• Manual Annotations of this start: 26 of 314
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Abba_35 (AO3), BarretLemon_34 (AO2), Beans_32 (AO1), BigDome_34 (AO2), BossLady_34 (AO2), Brent_32 (AO1), EastWest_35 (AO), Franzy_32 (AO1), GravityBall_34 (AO2), Grekaycon_34 (AO2), JKerns_34 (AO2), Jawnski_32 (AO1), Jordan_34 (AO2), King2_32 (AO1), LeeroyJ_34 (AO2), Martha_34 (AO2), NathanVaag_32 (AO1), Nostromo_33 (AO3), Piccoletto_32 (AO1), Pippa_34 (AO2), Shade_34 (AO2), Sonny_34 (AO2), StevieBAY_34 (AO2), TaeYoung_34 (AO2), Timinator_34 (AO2), Zartrosa_34 (AO2),

Start 117:
• Found in 26 of 344 (7.6%) of genes in pham
• Manual Annotations of this start: 14 of 314
• Called 57.7% of time when present
• Phage (with cluster) where this start called: AirForce1_41 (FL), Amochick_55 (Q), Amymech_55 (Q), BloominB_54 (Q), Daegal_57 (Q), DeepSoil15_55 (Q), Ein37_55 (Q), Evanesce_54 (Q), Gancho_54 (Q), HH92_54 (Q), JustASigh_52 (AH), LilHazelnut_55 (Q), OBUpride_55 (Q), Webster2_55 (Q), Weirdo19_53 (AH),

Start 119:
• Found in 26 of 344 (7.6%) of genes in pham
• Manual Annotations of this start: 20 of 314
• Called 84.6% of time when present
• Phage (with cluster) where this start called: ArV1_039 (AR), Bubbykins_54 (UNK), Chipper1996_460 (AR), Chocolat_46 (AR), Chubster_46 (AR), Colucci_46 (AR),

Conboy_46 (AR), DrYang_47 (AR), EdgarPoe_46 (AR), HumptyDumpty_46 (AR), JaNo_46 (AR), JayCookie_46 (AR), KBurrousTX_46 (AR), Kabreeze_46 (AR), Linus_46 (AR), Lymara_46 (AR), Mordred_46 (AR), MoyaNatalis_46 (AR), PrincessTrina_46 (AR), RosiePosie_46 (AR), Scavito_46 (AR), Tophat_46 (AR),

Start 120:
• Found in 2 of 344 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 314
• Called 100.0% of time when present
• Phage (with cluster) where this start called: JrWilcox_97 (GL), ValentiniPuff_95 (GL),

Start 121:
• Found in 1 of 344 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 314
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bran_40 (EP),

Start 122:
• Found in 2 of 344 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 314
• Called 100.0% of time when present
• Phage (with cluster) where this start called: 32HC_54 (Z), Rem711_53 (Z),

Start 124:
• Found in 3 of 344 (0.9%) of genes in pham
• No Manual Annotations of this start.
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Taotie_97 (EQ),

Start 125:
• Found in 3 of 344 (0.9%) of genes in pham
• Manual Annotations of this start: 1 of 314
• Called 33.3% of time when present
• Phage (with cluster) where this start called: NovoPizza_55 (Q),

Start 128:
• Found in 1 of 344 (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: REQ3_09 (singleton),

Start 129:
• Found in 3 of 344 (0.9%) of genes in pham
• Manual Annotations of this start: 2 of 314
• Called 66.7% of time when present
• Phage (with cluster) where this start called: MicyPS_78 (EQ), PSonyx_99 (EQ),

Start 130:
• Found in 11 of 344 (3.2%) of genes in pham
• Manual Annotations of this start: 11 of 314
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Begonia_56 (CV), CheeseSpider_62 (CV), JuJu_64 (CV), KappaFarmDelta_59 (CV), Malachai_56 (CV), Obliviate_54

(CV), Petra_55 (CV), PhrostedPhlake_59 (CV), UmaThurman_55 (CV), Wisp_55 (CV), ZiggyZoo_58 (CV),

Start 131:
• Found in 40 of 344 (11.6%) of genes in pham
• Manual Annotations of this start: 37 of 314
• Called 95.0% of time when present
• Phage (with cluster) where this start called: ArchiDore_54 (DW), Archis_60 (CV), Azula_59 (CV), Barco_56 (CV), BatStarr_58 (CZ1), BlingBling_54 (CV), Blino_60 (CV), Blueberry_58 (CV), CaptainKirk2_58 (CV), CarolAnn_59 (CV), Delian_61 (CV), Eviarto_59 (CZ1), Fairfaxidum_59 (CV), Fenry_56 (CV), Gambino_61 (CV), Guacamole_55 (CV), Hitter_58 (CV), Jalammah_61 (CV), JasperJr_55 (CV), Melba_56 (CV), MintFen_58 (CV), MissRona_59 (CV), Murp_58 (CV), Nymphadora_59 (CZ1), PCoral7_58 (CV), Pipp_60 (CV), PrincePatrick_57 (CV), Samba_57 (CV), Soilmate_62 (CV), TimTam_59 (CZ1), Toast_58 (CV), Utz_50 (CV), Vasanti_54 (CZ2), Walrus_56 (CV), William_60 (CV), Wocket_58 (CV), Zarbodnamra_57 (CV), Zilla_56 (CV),

Start 135:
• Found in 1 of 344 (0.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gallop_56 (ES),

Start 136:
• Found in 57 of 344 (16.6%) of genes in pham
• Manual Annotations of this start: 8 of 314
• Called 14.0% of time when present
• Phage (with cluster) where this start called: AuntGwenStacy_66 (Y), Bipper_64 (Y), Cracklewink_63 (Y), Faiyaz_66 (Y), Hilltopfarm_65 (Y), Lysidious_59 (CV), Mellie_56 (CV), Typha_65 (Y),

Start 138:
• Found in 2 of 344 (0.6%) 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_35 (BX), PFR2_37 (BX),

Start 154:
• Found in 1 of 344 (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: phiAsp2_49 (singleton),

Summary by clusters:

There are 41 clusters represented in this pham: DL, CZ2, DD, CZ1, singleton, DZ, DW, FH, UNK, FJ, BX, Z, I1, FL, I3, I2, EP, GL, CQ2, CQ1, AD, P5, AH, AO, N, Q, AR, AO3, AO2, AO1, Y, CP, EQ, CV, ES, KA, DE1, DE2, DE3, DE4, DE5,

Info for manual annotations of cluster AD:
•Start number 112 was manually annotated 2 times for cluster AD.

Info for manual annotations of cluster AH:
•Start number 117 was manually annotated 1 time for cluster AH.

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

Info for manual annotations of cluster AO1:
•Start number 115 was manually annotated 7 times for cluster AO1.

Info for manual annotations of cluster AO2:
•Start number 105 was manually annotated 2 times for cluster AO2.
•Start number 115 was manually annotated 16 times for cluster AO2.

Info for manual annotations of cluster AO3:
•Start number 115 was manually annotated 2 times for cluster AO3.

Info for manual annotations of cluster AR:
•Start number 119 was manually annotated 19 times for cluster AR.

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

Info for manual annotations of cluster CQ1:
•Start number 97 was manually annotated 7 times for cluster CQ1.
•Start number 99 was manually annotated 8 times for cluster CQ1.

Info for manual annotations of cluster CQ2:
•Start number 101 was manually annotated 2 times for cluster CQ2.

Info for manual annotations of cluster CV:
•Start number 130 was manually annotated 11 times for cluster CV.
•Start number 131 was manually annotated 31 times for cluster CV.
•Start number 136 was manually annotated 2 times for cluster CV.

Info for manual annotations of cluster CZ1:
•Start number 131 was manually annotated 4 times for cluster CZ1.

Info for manual annotations of cluster CZ2:
•Start number 131 was manually annotated 1 time for cluster CZ2.

Info for manual annotations of cluster DD:
•Start number 103 was manually annotated 3 times for cluster DD.

Info for manual annotations of cluster DE1:
•Start number 32 was manually annotated 1 time for cluster DE1.
•Start number 100 was manually annotated 52 times for cluster DE1.

Info for manual annotations of cluster DE2:
•Start number 97 was manually annotated 9 times for cluster DE2.

Info for manual annotations of cluster DE3:
•Start number 100 was manually annotated 7 times for cluster DE3.

Info for manual annotations of cluster DE4:
•Start number 105 was manually annotated 13 times for cluster DE4.

Info for manual annotations of cluster DE5:
•Start number 88 was manually annotated 1 time for cluster DE5.

Info for manual annotations of cluster DL:
•Start number 109 was manually annotated 6 times for cluster DL.

Info for manual annotations of cluster DW:
•Start number 131 was manually annotated 1 time for cluster DW.

Info for manual annotations of cluster DZ:
•Start number 111 was manually annotated 5 times for cluster DZ.

Info for manual annotations of cluster EP:
•Start number 121 was manually annotated 1 time for cluster EP.

Info for manual annotations of cluster EQ:
•Start number 129 was manually annotated 2 times for cluster EQ.

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

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

Info for manual annotations of cluster FL:
•Start number 117 was manually annotated 1 time for cluster FL.

Info for manual annotations of cluster GL:
•Start number 120 was manually annotated 1 time for cluster GL.

Info for manual annotations of cluster I1:
•Start number 112 was manually annotated 2 times for cluster I1.

Info for manual annotations of cluster I2:
•Start number 112 was manually annotated 1 time for cluster I2.

Info for manual annotations of cluster KA:
•Start number 114 was manually annotated 2 times for cluster KA.

Info for manual annotations of cluster N:
•Start number 112 was manually annotated 38 times for cluster N.

Info for manual annotations of cluster P5:
•Start number 112 was manually annotated 1 time for cluster P5.

Info for manual annotations of cluster Q:
•Start number 59 was manually annotated 10 times for cluster Q.

•Start number 84 was manually annotated 1 time for cluster Q.
•Start number 117 was manually annotated 12 times for cluster Q.
•Start number 125 was manually annotated 1 time for cluster Q.

Info for manual annotations of cluster UNK:
•Start number 119 was manually annotated 1 time for cluster UNK.

Info for manual annotations of cluster Y:
•Start number 136 was manually annotated 6 times for cluster Y.

Info for manual annotations of cluster Z:
•Start number 122 was manually annotated 1 time for cluster Z.

Gene Information:

Gene: 32HC_54 Start: 36687, Stop: 37607, Start Num: 122
Candidate Starts for 32HC_54:
(Start: 122 @36687 has 1 MA's), (Start: 131 @36705 has 37 MA's), (142, 36756), (143, 36762), (158, 36837), (206, 37002), (222, 37050), (225, 37062), (250, 37152), (252, 37155), (274, 37233), (347, 37500), (348, 37503), (361, 37539), (373, 37581),

Gene: APunk_51 Start: 41866, Stop: 43041, Start Num: 105
Candidate Starts for APunk_51:
(Start: 105 @41866 has 15 MA's), (126, 41905), (149, 41998), (151, 42007), (155, 42040), (156, 42046), (164, 42082), (169, 42097), (181, 42130), (183, 42136), (208, 42229), (210, 42238), (247, 42373), (256, 42406), (257, 42409), (259, 42421), (261, 42427), (277, 42490), (284, 42520), (324, 42691), (345, 42766), (363, 42850), (383, 42922), (386, 42928), (405, 43009),

Gene: Abba_35 Start: 27714, Stop: 28745, Start Num: 115
Candidate Starts for Abba_35:
(Start: 115 @27714 has 26 MA's), (150, 27831), (163, 27897), (169, 27915), (179, 27945), (187, 27969), (188, 27975), (203, 28023), (245, 28155), (299, 28317), (305, 28341), (323, 28416), (327, 28437), (360, 28542), (393, 28635), (405, 28701),

Gene: Abblin_50 Start: 42409, Stop: 43563, Start Num: 105
Candidate Starts for Abblin_50:
(Start: 105 @42409 has 15 MA's), (126, 42448), (149, 42541), (151, 42550), (155, 42583), (156, 42589), (164, 42625), (169, 42640), (181, 42673), (183, 42679), (208, 42772), (256, 42928), (259, 42943), (277, 43012), (280, 43024), (284, 43042), (324, 43213), (345, 43288), (363, 43372), (383, 43444), (386, 43450), (405, 43531),

Gene: Abscondus_87 Start: 53597, Stop: 54637, Start Num: 99
Candidate Starts for Abscondus_87:
(Start: 97 @53594 has 16 MA's), (Start: 99 @53597 has 8 MA's), (150, 53744), (155, 53777), (166, 53828), (195, 53927), (202, 53948), (206, 53972), (247, 54101), (251, 54113), (295, 54239), (309, 54302), (319, 54341), (337, 54410), (341, 54422), (352, 54470), (368, 54503), (371, 54521), (402, 54620),

Gene: Affeca_46 Start: 40965, Stop: 42128, Start Num: 100
Candidate Starts for Affeca_46:

(Start: 100 @40965 has 60 MA's), (126, 41004), (149, 41097), (155, 41139), (156, 41145), (169, 41196), (181, 41229), (203, 41304), (208, 41325), (247, 41448), (256, 41481), (261, 41502), (280, 41577), (313, 41715), (345, 41829), (353, 41877), (355, 41892), (367, 41952), (386, 42018), (392, 42033), (401, 42051),

Gene: Ailee_45 Start: 40558, Stop: 41721, Start Num: 100
Candidate Starts for Ailee_45:
(Start: 100 @40558 has 60 MA's), (126, 40597), (149, 40690), (155, 40732), (156, 40738), (169, 40789), (181, 40822), (203, 40897), (208, 40918), (247, 41041), (256, 41074), (261, 41095), (280, 41170), (313, 41308), (345, 41422), (353, 41470), (355, 41485), (367, 41545), (386, 41611), (392, 41626), (401, 41644),

Gene: AirForce1_41 Start: 30261, Stop: 31193, Start Num: 117
Candidate Starts for AirForce1_41:
(Start: 117 @30261 has 14 MA's), (139, 30315), (142, 30339), (144, 30348), (147, 30363), (150, 30375), (158, 30420), (161, 30432), (179, 30489), (197, 30543), (200, 30549), (251, 30714), (268, 30750), (288, 30816), (292, 30828), (295, 30840),

Gene: Aleemily_38 Start: 31779, Stop: 32792, Start Num: 111
Candidate Starts for Aleemily_38:
(Start: 111 @31779 has 5 MA's), (139, 31842), (148, 31899), (150, 31905), (158, 31950), (179, 32022), (214, 32142), (222, 32169), (251, 32262), (256, 32268), (260, 32283), (266, 32292), (268, 32298), (319, 32496), (321, 32502), (329, 32538), (351, 32622), (380, 32694), (401, 32748),

Gene: Ali17_45 Start: 39857, Stop: 41008, Start Num: 97
Candidate Starts for Ali17_45:
(Start: 97 @39857 has 16 MA's), (139, 39941), (149, 39998), (151, 40007), (155, 40040), (156, 40046), (169, 40094), (183, 40133), (193, 40163), (199, 40181), (200, 40184), (202, 40193), (245, 40343), (247, 40349), (256, 40382), (261, 40403), (277, 40466), (303, 40580), (312, 40622), (313, 40628), (350, 40766), (392, 40910), (405, 40976),

Gene: Altadena_36 Start: 26934, Stop: 28001, Start Num: 102
Candidate Starts for Altadena_36:
(1, 26163), (2, 26193), (3, 26196), (Start: 102 @26934 has 16 MA's), (169, 27156), (177, 27174), (185, 27201), (203, 27264),

Gene: Amo99_85 Start: 52756, Stop: 53769, Start Num: 102
Candidate Starts for Amo99_85:
(53, 52594), (71, 52663), (96, 52747), (Start: 102 @52756 has 16 MA's), (159, 52942), (169, 52981), (177, 52999), (203, 53092), (230, 53161), (247, 53242), (258, 53281), (272, 53341), (287, 53377), (289, 53383), (302, 53416), (316, 53482), (332, 53539), (400, 53746),

Gene: Amochick_55 Start: 38924, Stop: 39895, Start Num: 117
Candidate Starts for Amochick_55:
(12, 38531), (16, 38552), (17, 38561), (24, 38654), (37, 38738), (Start: 59 @38804 has 10 MA's), (62, 38813), (Start: 84 @38882 has 1 MA's), (Start: 117 @38924 has 14 MA's), (151, 39035), (155, 39062), (158, 39074), (177, 39131), (190, 39182), (224, 39293), (229, 39311), (237, 39341), (260, 39422), (277, 39488), (283, 39506), (285, 39509), (297, 39551), (324, 39659), (325, 39665), (344, 39734), (348, 39746), (360, 39779), (370, 39818),

Gene: Amymech_55 Start: 38900, Stop: 39871, Start Num: 117
Candidate Starts for Amymech_55:

(12, 38507), (17, 38537), (24, 38630), (37, 38714), (Start: 59 @38780 has 10 MA's), (62, 38789), (Start: 84 @38858 has 1 MA's), (Start: 117 @38900 has 14 MA's), (151, 39011), (155, 39038), (158, 39050), (177, 39107), (190, 39158), (224, 39269), (237, 39317), (260, 39398), (277, 39464), (283, 39482), (285, 39485), (297, 39527), (325, 39641), (344, 39710), (348, 39722), (360, 39755), (370, 39794),

Gene: Andies_44 Start: 31627, Stop: 32637, Start Num: 112
Candidate Starts for Andies_44:
(Start: 112 @31627 has 44 MA's), (149, 31741), (151, 31750), (155, 31777), (169, 31828), (171, 31831), (194, 31897), (202, 31924), (237, 32032), (241, 32050), (245, 32068), (318, 32317), (343, 32407), (347, 32419), (365, 32467), (392, 32548),

Gene: Angelicage_46 Start: 41383, Stop: 42546, Start Num: 100
Candidate Starts for Angelicage_46:
(Start: 100 @41383 has 60 MA's), (126, 41422), (149, 41515), (155, 41557), (156, 41563), (169, 41614), (181, 41647), (203, 41722), (208, 41743), (247, 41866), (256, 41899), (261, 41920), (280, 41995), (313, 42133), (345, 42247), (353, 42295), (355, 42310), (367, 42370), (386, 42436), (392, 42451), (401, 42469),

Gene: Aphelion_87 Start: 54219, Stop: 55259, Start Num: 99
Candidate Starts for Aphelion_87:
(Start: 97 @54216 has 16 MA's), (Start: 99 @54219 has 8 MA's), (150, 54366), (155, 54399), (166, 54450), (195, 54549), (202, 54570), (206, 54594), (247, 54723), (251, 54735), (295, 54861), (309, 54924), (319, 54963), (337, 55032), (341, 55044), (352, 55092), (368, 55125), (389, 55194), (402, 55242),

Gene: ArV1_039 Start: 34906, Stop: 35859, Start Num: 119
Candidate Starts for ArV1_039:
(Start: 119 @34906 has 20 MA's), (142, 34981), (150, 35017), (155, 35050), (158, 35062), (186, 35155), (197, 35185), (200, 35191), (209, 35236), (213, 35245), (220, 35269), (240, 35329), (251, 35365), (264, 35404), (268, 35416), (285, 35473), (295, 35506), (321, 35620), (338, 35686), (348, 35719), (368, 35770), (388, 35833), (391, 35842),

Gene: ArchiDore_54 Start: 40092, Stop: 41021, Start Num: 131
Candidate Starts for ArchiDore_54:
(8, 39528), (9, 39531), (35, 39831), (40, 39846), (44, 39861), (46, 39867), (52, 39885), (67, 39939), (73, 39963), (89, 40029), (95, 40035), (Start: 131 @40092 has 37 MA's), (Start: 136 @40107 has 8 MA's), (143, 40149), (144, 40152), (151, 40185), (155, 40212), (158, 40224), (224, 40449), (240, 40500), (247, 40524), (268, 40578), (288, 40644), (294, 40665), (309, 40734), (312, 40743), (348, 40875),

Gene: Archis_60 Start: 37454, Stop: 38383, Start Num: 131
Candidate Starts for Archis_60:
(Start: 131 @37454 has 37 MA's), (Start: 136 @37469 has 8 MA's), (144, 37514), (151, 37547), (155, 37574), (158, 37586), (224, 37811), (240, 37862), (247, 37886), (268, 37940), (288, 38006), (294, 38027), (306, 38078), (312, 38105), (320, 38135), (348, 38237),

Gene: Ashertheman_48 Start: 41154, Stop: 42287, Start Num: 100
Candidate Starts for Ashertheman_48:
(74, 41085), (Start: 100 @41154 has 60 MA's), (126, 41199), (149, 41292), (155, 41334), (156, 41340), (169, 41391), (181, 41424), (183, 41430), (208, 41520), (247, 41643), (256, 41676), (280, 41772), (313, 41910), (345, 42024), (350, 42051), (367, 42111), (386, 42177), (401, 42210),

Gene: AuntGwenStacy_66 Start: 45547, Stop: 46461, Start Num: 136
Candidate Starts for AuntGwenStacy_66:
(48, 45319), (66, 45385), (73, 45412), (83, 45466), (Start: 136 @45547 has 8 MA's), (155, 45652), (158, 45664), (160, 45676), (222, 45877), (244, 45949), (251, 45970), (254, 45976), (267, 46009), (268, 46012), (283, 46066), (306, 46147), (309, 46165), (348, 46306), (352, 46330),

Gene: Azula_59 Start: 39736, Stop: 40665, Start Num: 131
Candidate Starts for Azula_59:
(Start: 131 @39736 has 37 MA's), (Start: 136 @39751 has 8 MA's), (144, 39796), (155, 39856), (158, 39868), (197, 40003), (224, 40093), (240, 40144), (247, 40168), (249, 40171), (268, 40222), (288, 40288), (294, 40309), (306, 40360), (309, 40378), (348, 40519), (364, 40564), (376, 40603), (390, 40642),

Gene: BabeRuth_52 Start: 33348, Stop: 34358, Start Num: 112
Candidate Starts for BabeRuth_52:
(Start: 112 @33348 has 44 MA's), (149, 33462), (151, 33471), (155, 33498), (169, 33549), (171, 33552), (194, 33618), (202, 33645), (237, 33753), (241, 33771), (245, 33789), (318, 34038), (343, 34128), (347, 34140), (365, 34188), (392, 34269),

Gene: Bachita_89 Start: 54642, Stop: 55685, Start Num: 97
Candidate Starts for Bachita_89:
(Start: 97 @54642 has 16 MA's), (Start: 99 @54645 has 8 MA's), (150, 54792), (155, 54825), (166, 54876), (195, 54975), (202, 54996), (206, 55020), (247, 55149), (251, 55161), (266, 55191), (295, 55287), (297, 55296), (309, 55350), (319, 55389), (337, 55458), (352, 55518), (368, 55551), (371, 55569), (402, 55668),

Gene: Baddon_47 Start: 41688, Stop: 42815, Start Num: 100
Candidate Starts for Baddon_47:
(74, 41619), (Start: 100 @41688 has 60 MA's), (126, 41727), (149, 41820), (155, 41862), (156, 41868), (169, 41919), (183, 41958), (208, 42048), (237, 42129), (256, 42204), (261, 42225), (270, 42258), (277, 42288), (280, 42300), (313, 42438), (345, 42552), (350, 42579), (367, 42639), (386, 42705), (401, 42738),

Gene: Bantam_95 Start: 64152, Stop: 63124, Start Num: 109
Candidate Starts for Bantam_95:
(Start: 109 @64152 has 6 MA's), (166, 63930), (196, 63825), (205, 63783), (211, 63762), (228, 63708), (248, 63642), (254, 63627), (255, 63624), (256, 63618), (268, 63597), (275, 63570), (287, 63534), (295, 63507), (306, 63462), (314, 63423), (326, 63372), (328, 63363), (341, 63324), (344, 63312), (364, 63246),

Gene: Barco_56 Start: 37010, Stop: 37939, Start Num: 131
Candidate Starts for Barco_56:
(96, 36959), (104, 36971), (Start: 131 @37010 has 37 MA's), (Start: 136 @37025 has 8 MA's), (143, 37067), (144, 37070), (155, 37130), (158, 37142), (224, 37367), (240, 37418), (247, 37442), (268, 37496), (273, 37514), (288, 37562), (294, 37583), (306, 37634), (312, 37661), (320, 37691), (348, 37793),

Gene: BarretLemon_34 Start: 28805, Stop: 29824, Start Num: 115
Candidate Starts for BarretLemon_34:
(Start: 115 @28805 has 26 MA's), (150, 28922), (169, 29006), (173, 29018), (179, 29036), (191, 29072), (245, 29246), (247, 29252), (262, 29309), (272, 29348), (287, 29384), (291, 29396), (299, 29408), (365, 29651), (403, 29771),

Gene: Barsten_49 Start: 41538, Stop: 42665, Start Num: 100
Candidate Starts for Barsten_49:
(Start: 100 @41538 has 60 MA's), (126, 41577), (149, 41670), (155, 41712), (156, 41718), (169, 41769), (181, 41802), (203, 41877), (208, 41898), (237, 41979), (247, 42021), (256, 42054), (261, 42075), (280, 42150), (313, 42288), (345, 42402), (350, 42429), (367, 42489), (386, 42555), (392, 42570), (401, 42588),

Gene: BatStarr_58 Start: 41291, Stop: 42220, Start Num: 131
Candidate Starts for BatStarr_58:
(44, 41057), (46, 41063), (52, 41081), (67, 41135), (73, 41159), (92, 41231), (96, 41234), (Start: 97 @41237 has 16 MA's), (Start: 131 @41291 has 37 MA's), (Start: 136 @41306 has 8 MA's), (143, 41348), (144, 41351), (155, 41411), (158, 41423), (224, 41648), (240, 41699), (247, 41723), (268, 41777), (273, 41795), (288, 41843), (294, 41864), (306, 41915), (309, 41933), (312, 41942), (348, 42074),

Gene: Baumdotcom_46 Start: 40560, Stop: 41684, Start Num: 100
Candidate Starts for Baumdotcom_46:
(74, 40491), (Start: 100 @40560 has 60 MA's), (126, 40596), (149, 40689), (155, 40731), (156, 40737), (169, 40788), (183, 40827), (208, 40917), (256, 41073), (261, 41094), (270, 41127), (280, 41169), (313, 41307), (345, 41421), (350, 41448), (367, 41508), (386, 41574), (401, 41607),

Gene: Beans_32 Start: 28492, Stop: 29520, Start Num: 115
Candidate Starts for Beans_32:
(Start: 115 @28492 has 26 MA's), (150, 28609), (163, 28675), (169, 28693), (179, 28723), (245, 28933), (262, 28996), (287, 29071), (291, 29083), (299, 29095), (341, 29260), (365, 29338),

Gene: Begonia_56 Start: 39249, Stop: 40178, Start Num: 130
Candidate Starts for Begonia_56:
(55, 39057), (67, 39099), (73, 39123), (91, 39195), (Start: 130 @39249 has 11 MA's), (Start: 136 @39264 has 8 MA's), (143, 39306), (144, 39309), (155, 39369), (158, 39381), (224, 39606), (240, 39657), (247, 39681), (268, 39735), (288, 39801), (294, 39822), (306, 39873), (312, 39900), (320, 39930), (348, 40032),

Gene: Belphegor_48 Start: 41897, Stop: 43045, Start Num: 97
Candidate Starts for Belphegor_48:
(75, 41861), (Start: 97 @41897 has 16 MA's), (139, 41978), (151, 42044), (155, 42077), (156, 42083), (169, 42131), (177, 42149), (181, 42164), (183, 42170), (193, 42200), (199, 42218), (200, 42221), (208, 42263), (245, 42380), (247, 42386), (256, 42419), (261, 42440), (303, 42617), (312, 42659), (313, 42665), (383, 42926), (386, 42932), (405, 43013),

Gene: Bibwit_46 Start: 40244, Stop: 41377, Start Num: 100
Candidate Starts for Bibwit_46:
(10, 39749), (74, 40175), (Start: 100 @40244 has 60 MA's), (149, 40382), (155, 40424), (156, 40430), (169, 40481), (181, 40514), (183, 40520), (208, 40610), (256, 40766), (261, 40787), (280, 40862), (313, 41000), (345, 41114), (350, 41141), (363, 41189), (367, 41201), (386, 41267), (392, 41282), (401, 41300),

Gene: BigDome_34 Start: 28797, Stop: 29816, Start Num: 115
Candidate Starts for BigDome_34:
(Start: 115 @28797 has 26 MA's), (150, 28914), (169, 28998), (173, 29010), (179, 29028), (191, 29064), (245, 29238), (247, 29244), (262, 29301), (272, 29340), (287, 29376), (291, 29388), (299, 29400), (365, 29643), (403, 29763),

Gene: BigHunkinEater_53 Start: 41644, Stop: 42819, Start Num: 105
Candidate Starts for BigHunkinEater_53:
(Start: 105 @41644 has 15 MA's), (126, 41683), (149, 41776), (151, 41785), (155, 41818), (156, 41824), (169, 41875), (181, 41908), (183, 41914), (208, 42007), (210, 42016), (247, 42151), (256, 42184), (259, 42199), (277, 42268), (284, 42298), (324, 42469), (345, 42544), (363, 42628), (383, 42700), (386, 42706), (392, 42721), (405, 42787),

Gene: Bipper_64 Start: 44977, Stop: 45906, Start Num: 136
Candidate Starts for Bipper_64:
(Start: 136 @44977 has 8 MA's), (147, 45037), (155, 45082), (158, 45094), (160, 45106), (172, 45139), (200, 45226), (207, 45262), (221, 45304), (222, 45307), (244, 45379), (251, 45400), (253, 45403), (272, 45463), (283, 45502), (306, 45583), (309, 45601), (322, 45652), (334, 45700), (344, 45733), (348, 45745), (351, 45766), (364, 45799), (372, 45832), (391, 45886),

Gene: Bizzy_48 Start: 40845, Stop: 41972, Start Num: 100
Candidate Starts for Bizzy_48:
(74, 40776), (Start: 100 @40845 has 60 MA's), (126, 40884), (149, 40977), (155, 41019), (156, 41025), (169, 41076), (183, 41115), (208, 41205), (237, 41286), (256, 41361), (261, 41382), (270, 41415), (280, 41457), (313, 41595), (345, 41709), (350, 41736), (367, 41796), (386, 41862), (401, 41895),

Gene: BlingBling_54 Start: 37467, Stop: 38396, Start Num: 131
Candidate Starts for BlingBling_54:
(Start: 131 @37467 has 37 MA's), (Start: 136 @37482 has 8 MA's), (144, 37527), (151, 37560), (155, 37587), (158, 37599), (224, 37824), (247, 37899), (268, 37953), (288, 38019), (294, 38040), (306, 38091), (312, 38118), (320, 38148), (348, 38250),

Gene: Blino_60 Start: 42431, Stop: 43360, Start Num: 131
Candidate Starts for Blino_60:
(65, 42269), (77, 42317), (82, 42350), (Start: 131 @42431 has 37 MA's), (Start: 136 @42446 has 8 MA's), (143, 42488), (144, 42491), (151, 42524), (155, 42551), (158, 42563), (224, 42788), (240, 42839), (247, 42863), (268, 42917), (273, 42935), (288, 42983), (294, 43004), (306, 43055), (312, 43082), (348, 43214),

Gene: BloominB_54 Start: 38900, Stop: 39871, Start Num: 117
Candidate Starts for BloominB_54:
(12, 38507), (17, 38537), (24, 38630), (37, 38714), (Start: 59 @38780 has 10 MA's), (62, 38789), (Start: 84 @38858 has 1 MA's), (Start: 117 @38900 has 14 MA's), (151, 39011), (155, 39038), (158, 39050), (177, 39107), (190, 39158), (224, 39269), (237, 39317), (260, 39398), (277, 39464), (283, 39482), (285, 39485), (297, 39527), (325, 39641), (344, 39710), (348, 39722), (360, 39755), (370, 39794),

Gene: Blueberry_58 Start: 39736, Stop: 40665, Start Num: 131
Candidate Starts for Blueberry_58:
(Start: 131 @39736 has 37 MA's), (Start: 136 @39751 has 8 MA's), (144, 39796), (155, 39856), (158, 39868), (197, 40003), (224, 40093), (240, 40144), (247, 40168), (249, 40171), (268, 40222), (288, 40288), (294, 40309), (306, 40360), (309, 40378), (348, 40519), (364, 40564), (376, 40603), (390, 40642),

Gene: Bluvara_52 Start: 37027, Stop: 38037, Start Num: 112
Candidate Starts for Bluvara_52:
(Start: 112 @37027 has 44 MA's), (149, 37141), (151, 37150), (155, 37177), (169, 37228), (171, 37231), (178, 37255), (184, 37270), (212, 37363), (222, 37381), (237, 37432), (242, 37456), (245, 37468), (247, 37474), (254, 37498), (257, 37510), (318, 37717), (324, 37738), (343, 37807), (347,

37819), (392, 37948),

Gene: BobBob_46 Start: 40656, Stop: 41780, Start Num: 100
Candidate Starts for BobBob_46:
(80, 40617), (Start: 100 @40656 has 60 MA's), (126, 40692), (149, 40785), (155, 40827), (156, 40833), (169, 40884), (181, 40917), (203, 40992), (208, 41013), (247, 41136), (256, 41169), (261, 41190), (280, 41265), (313, 41403), (345, 41517), (350, 41544), (367, 41604), (386, 41670), (392, 41685), (401, 41703),

Gene: Bolt007_37 Start: 29435, Stop: 30487, Start Num: 102
Candidate Starts for Bolt007_37:
(Start: 102 @29435 has 16 MA's), (169, 29645), (177, 29663), (203, 29753), (313, 30122),

Gene: Bosection6_45 Start: 31093, Stop: 32103, Start Num: 112
Candidate Starts for Bosection6_45:
(Start: 112 @31093 has 44 MA's), (141, 31168), (149, 31207), (151, 31216), (155, 31243), (169, 31294), (171, 31297), (178, 31321), (222, 31447), (237, 31498), (242, 31522), (245, 31534), (254, 31564), (312, 31756), (313, 31765), (318, 31783), (343, 31873), (347, 31885), (365, 31933), (392, 32014),

Gene: BossLady_34 Start: 28774, Stop: 29793, Start Num: 115
Candidate Starts for BossLady_34:
(Start: 115 @28774 has 26 MA's), (169, 28975), (173, 28987), (179, 29005), (188, 29035), (191, 29041), (245, 29215), (247, 29221), (262, 29278), (287, 29353), (299, 29377), (301, 29386), (319, 29464), (339, 29536), (341, 29542), (401, 29719),

Gene: Bran_40 Start: 30480, Stop: 31427, Start Num: 121
Candidate Starts for Bran_40:
(74, 30363), (76, 30366), (85, 30420), (Start: 121 @30480 has 1 MA's), (155, 30621), (157, 30630), (167, 30663), (177, 30693), (197, 30759), (199, 30765), (212, 30813), (215, 30822), (227, 30861), (232, 30876), (241, 30918), (242, 30924), (251, 30954), (265, 30987), (277, 31032), (280, 31041), (322, 31185), (360, 31311), (382, 31383), (387, 31398), (394, 31416),

Gene: Brandonk123_50 Start: 41790, Stop: 42914, Start Num: 100
Candidate Starts for Brandonk123_50:
(80, 41751), (Start: 100 @41790 has 60 MA's), (126, 41826), (149, 41919), (155, 41961), (156, 41967), (169, 42018), (181, 42051), (203, 42126), (208, 42147), (247, 42270), (256, 42303), (261, 42324), (280, 42399), (313, 42537), (345, 42651), (350, 42678), (367, 42738), (386, 42804), (392, 42819), (401, 42837),

Gene: Brawn1_45 Start: 40865, Stop: 42028, Start Num: 100
Candidate Starts for Brawn1_45:
(Start: 100 @40865 has 60 MA's), (126, 40904), (149, 40997), (155, 41039), (156, 41045), (169, 41096), (181, 41129), (203, 41204), (208, 41225), (237, 41306), (247, 41348), (256, 41381), (261, 41402), (280, 41477), (313, 41615), (345, 41729), (353, 41777), (355, 41792), (367, 41852), (386, 41918), (392, 41933), (401, 41951),

Gene: Brent_32 Start: 28455, Stop: 29483, Start Num: 115
Candidate Starts for Brent_32:
(Start: 115 @28455 has 26 MA's), (163, 28638), (169, 28656), (179, 28686), (185, 28701), (242, 28884), (245, 28896), (287, 29034), (291, 29046), (299, 29058), (319, 29145), (341, 29223), (351, 29265), (361, 29289), (365, 29301),

Gene: Brujita_48 Start: 33774, Stop: 34781, Start Num: 112
Candidate Starts for Brujita_48:
(69, 33654), (Start: 112 @33774 has 44 MA's), (149, 33885), (151, 33894), (155, 33921), (169, 33972), (171, 33975), (188, 34032), (194, 34041), (222, 34125), (237, 34176), (242, 34200), (245, 34212), (313, 34443), (318, 34461), (324, 34482), (326, 34497), (343, 34551), (344, 34554), (347, 34563), (350, 34581), (365, 34611), (392, 34692),

Gene: BrutonGaster_71 Start: 49921, Stop: 50958, Start Num: 101
Candidate Starts for BrutonGaster_71:
(Start: 101 @49921 has 2 MA's), (166, 50146), (174, 50173), (247, 50416), (251, 50428), (289, 50533), (295, 50554), (309, 50617), (349, 50776), (368, 50818), (379, 50854), (385, 50878), (389, 50887), (402, 50935),

Gene: Bubbykins_54 Start: 41419, Stop: 42384, Start Num: 119
Candidate Starts for Bubbykins_54:
(Start: 84 @41359 has 1 MA's), (Start: 119 @41419 has 20 MA's), (150, 41530), (155, 41563), (158, 41575), (179, 41647), (197, 41707), (200, 41713), (201, 41719), (217, 41785), (251, 41887), (260, 41917), (277, 41974), (281, 41986), (285, 41995), (295, 42028), (299, 42046), (305, 42070), (306, 42082), (312, 42109), (319, 42136), (376, 42319), (378, 42322),

Gene: Bumble_34 Start: 26999, Stop: 28066, Start Num: 102
Candidate Starts for Bumble_34:
(92, 26987), (Start: 102 @26999 has 16 MA's), (169, 27221), (177, 27239), (203, 27329),

Gene: Butters_50 Start: 33050, Stop: 34057, Start Num: 112
Candidate Starts for Butters_50:
(34, 32807), (38, 32819), (56, 32885), (69, 32930), (Start: 112 @33050 has 44 MA's), (149, 33161), (151, 33170), (155, 33197), (169, 33248), (171, 33251), (188, 33308), (194, 33317), (222, 33401), (237, 33452), (242, 33476), (245, 33488), (313, 33719), (318, 33737), (324, 33758), (326, 33773), (343, 33827), (344, 33830), (347, 33839), (350, 33857), (365, 33887), (392, 33968),

Gene: Cafasso_39 Start: 32353, Stop: 33366, Start Num: 111
Candidate Starts for Cafasso_39:
(Start: 111 @32353 has 5 MA's), (139, 32416), (148, 32473), (150, 32479), (158, 32524), (179, 32596), (214, 32716), (222, 32743), (251, 32836), (256, 32842), (260, 32857), (266, 32866), (268, 32872), (319, 33070), (321, 33076), (329, 33112), (351, 33196), (380, 33268), (401, 33322),

Gene: CalWood4100_39 Start: 28926, Stop: 29978, Start Num: 102
Candidate Starts for CalWood4100_39:
(Start: 102 @28926 has 16 MA's), (169, 29136), (177, 29154), (203, 29244), (271, 29481), (272, 29484),

Gene: CaptainKirk2_58 Start: 37249, Stop: 38178, Start Num: 131
Candidate Starts for CaptainKirk2_58:
(4, 36475), (37, 37000), (67, 37099), (96, 37198), (104, 37210), (Start: 131 @37249 has 37 MA's), (Start: 136 @37264 has 8 MA's), (144, 37309), (155, 37369), (158, 37381), (224, 37606), (240, 37657), (247, 37681), (268, 37735), (288, 37801), (294, 37822), (306, 37873), (312, 37900), (320, 37930), (348, 38032),

Gene: Carcharodon_47 Start: 32442, Stop: 33452, Start Num: 112
Candidate Starts for Carcharodon_47:
(Start: 112 @32442 has 44 MA's), (141, 32517), (149, 32556), (151, 32565), (155, 32592), (169, 32643), (171, 32646), (178, 32670), (222, 32796), (237, 32847), (242, 32871), (245, 32883), (254,

32913), (312, 33105), (313, 33114), (318, 33132), (328, 33174), (343, 33222), (347, 33234), (392, 33363),

Gene: Cardigan_99 Start: 59943, Stop: 60962, Start Num: 103
Candidate Starts for Cardigan_99:
(Start: 103 @59943 has 3 MA's), (133, 59997), (134, 60000), (174, 60195), (202, 60288), (205, 60309), (206, 60312), (275, 60513), (277, 60522), (285, 60543), (309, 60639), (317, 60672), (325, 60702), (335, 60744), (341, 60759), (348, 60783), (350, 60801), (368, 60837), (379, 60873),

Gene: CarolAnn_59 Start: 42430, Stop: 43359, Start Num: 131
Candidate Starts for CarolAnn_59:
(65, 42268), (77, 42316), (82, 42349), (Start: 131 @42430 has 37 MA's), (Start: 136 @42445 has 8 MA's), (143, 42487), (144, 42490), (151, 42523), (155, 42550), (158, 42562), (224, 42787), (240, 42838), (247, 42862), (268, 42916), (273, 42934), (288, 42982), (294, 43003), (306, 43054), (312, 43081), (348, 43213),

Gene: ChadMasterC_49 Start: 42937, Stop: 44064, Start Num: 100
Candidate Starts for ChadMasterC_49:
(Start: 100 @42937 has 60 MA's), (126, 42976), (149, 43069), (155, 43111), (156, 43117), (169, 43168), (181, 43201), (203, 43276), (208, 43297), (247, 43420), (256, 43453), (261, 43474), (280, 43549), (313, 43687), (345, 43801), (367, 43888), (386, 43954), (392, 43969), (401, 43987),

Gene: Charming_49 Start: 41293, Stop: 42420, Start Num: 100
Candidate Starts for Charming_49:
(Start: 100 @41293 has 60 MA's), (126, 41332), (149, 41425), (155, 41467), (156, 41473), (169, 41524), (181, 41557), (203, 41632), (208, 41653), (247, 41776), (256, 41809), (261, 41830), (280, 41905), (313, 42043), (345, 42157), (350, 42184), (367, 42244), (386, 42310), (392, 42325), (401, 42343),

Gene: CheeseSpider_62 Start: 38516, Stop: 39445, Start Num: 130
Candidate Starts for CheeseSpider_62:
(33, 38249), (37, 38264), (44, 38285), (51, 38303), (64, 38357), (Start: 130 @38516 has 11 MA's), (Start: 136 @38531 has 8 MA's), (144, 38576), (151, 38609), (155, 38636), (158, 38648), (197, 38783), (224, 38873), (240, 38924), (247, 38948), (249, 38951), (268, 39002), (288, 39068), (294, 39089), (306, 39140), (348, 39299), (364, 39344),

Gene: Chewbacca_49 Start: 32442, Stop: 33452, Start Num: 112
Candidate Starts for Chewbacca_49:
(Start: 112 @32442 has 44 MA's), (141, 32517), (149, 32556), (151, 32565), (155, 32592), (169, 32643), (171, 32646), (178, 32670), (222, 32796), (237, 32847), (242, 32871), (245, 32883), (254, 32913), (312, 33105), (313, 33114), (318, 33132), (328, 33174), (343, 33222), (347, 33234), (392, 33363),

Gene: Chickadee_45 Start: 37929, Stop: 39083, Start Num: 100
Candidate Starts for Chickadee_45:
(Start: 100 @37929 has 60 MA's), (149, 38058), (155, 38100), (156, 38106), (169, 38157), (208, 38286), (212, 38292), (237, 38370), (247, 38412), (256, 38445), (261, 38466), (312, 38685), (324, 38730), (330, 38754), (337, 38778), (350, 38829), (367, 38898), (369, 38910), (381, 38949), (383, 38958), (386, 38964), (392, 38979), (398, 38988), (405, 39045),

Gene: Chipper1996_460 Start: 36472, Stop: 37425, Start Num: 119
Candidate Starts for Chipper1996_460:

(Start: 119 @36472 has 20 MA's), (150, 36583), (155, 36616), (158, 36628), (186, 36721), (192, 36739), (197, 36751), (200, 36757), (209, 36802), (216, 36823), (220, 36835), (240, 36895), (242, 36901), (251, 36931), (264, 36970), (268, 36982), (285, 37039), (295, 37072), (319, 37180), (338, 37252), (348, 37285), (368, 37336), (388, 37399), (391, 37408),

Gene: Chocolat_46 Start: 36464, Stop: 37417, Start Num: 119
Candidate Starts for Chocolat_46:
(Start: 119 @36464 has 20 MA's), (150, 36575), (155, 36608), (158, 36620), (186, 36713), (192, 36731), (197, 36743), (200, 36749), (209, 36794), (216, 36815), (220, 36827), (240, 36887), (251, 36923), (264, 36962), (268, 36974), (285, 37031), (295, 37064), (305, 37106), (319, 37172), (321, 37178), (338, 37244), (348, 37277), (368, 37328), (391, 37400),

Gene: Chubster_46 Start: 36384, Stop: 37337, Start Num: 119
Candidate Starts for Chubster_46:
(Start: 119 @36384 has 20 MA's), (150, 36495), (155, 36528), (158, 36540), (186, 36633), (192, 36651), (197, 36663), (200, 36669), (209, 36714), (216, 36735), (220, 36747), (240, 36807), (242, 36813), (251, 36843), (264, 36882), (268, 36894), (285, 36951), (295, 36984), (305, 37026), (319, 37092), (321, 37098), (338, 37164), (348, 37197), (368, 37248), (391, 37320),

Gene: Circuit_34 Start: 27961, Stop: 29031, Start Num: 102
Candidate Starts for Circuit_34:
(92, 27946), (Start: 102 @27961 has 16 MA's), (169, 28186), (177, 28204), (203, 28294),

Gene: Clawz_83 Start: 52842, Stop: 53858, Start Num: 102
Candidate Starts for Clawz_83:
(14, 52431), (36, 52623), (53, 52680), (71, 52749), (96, 52833), (Start: 102 @52842 has 16 MA's), (159, 53031), (169, 53070), (177, 53088), (203, 53181), (246, 53328), (272, 53430), (287, 53466), (311, 53550), (332, 53628), (333, 53637), (347, 53679), (400, 53835),

Gene: ClubL_87 Start: 53329, Stop: 54372, Start Num: 97
Candidate Starts for ClubL_87:
(Start: 97 @53329 has 16 MA's), (Start: 99 @53332 has 8 MA's), (150, 53479), (155, 53512), (166, 53563), (195, 53662), (202, 53683), (206, 53707), (247, 53836), (251, 53848), (295, 53974), (309, 54037), (319, 54076), (337, 54145), (341, 54157), (352, 54205), (368, 54238), (389, 54307), (402, 54355),

Gene: ColdSoup_85 Start: 52837, Stop: 53850, Start Num: 102
Candidate Starts for ColdSoup_85:
(53, 52675), (71, 52744), (96, 52828), (Start: 102 @52837 has 16 MA's), (159, 53023), (169, 53062), (177, 53080), (203, 53173), (230, 53242), (247, 53323), (258, 53362), (272, 53422), (287, 53458), (289, 53464), (302, 53497), (316, 53563), (332, 53620), (400, 53827),

Gene: Colossa_36 Start: 29351, Stop: 30301, Start Num: 114
Candidate Starts for Colossa_36:
(31, 29090), (57, 29186), (94, 29321), (Start: 114 @29351 has 2 MA's), (123, 29366), (146, 29462), (158, 29519), (189, 29633), (240, 29786), (245, 29804), (251, 29822), (256, 29828), (266, 29852), (268, 29858), (276, 29891), (277, 29894), (319, 30056), (351, 30182), (374, 30230),

Gene: Colucci_46 Start: 36185, Stop: 37138, Start Num: 119
Candidate Starts for Colucci_46:
(Start: 119 @36185 has 20 MA's), (142, 36260), (150, 36296), (155, 36329), (158, 36341), (186, 36434), (197, 36464), (200, 36470), (209, 36515), (216, 36536), (251, 36644), (264, 36683), (268, 36695), (285, 36752), (295, 36785), (319, 36893), (348, 36998), (368, 37049), (388, 37112), (391,

37121),

Gene: Conboy_46 Start: 36612, Stop: 37565, Start Num: 119
Candidate Starts for Conboy_46:
(Start: 119 @36612 has 20 MA's), (150, 36723), (155, 36756), (158, 36768), (186, 36861), (192, 36879), (197, 36891), (200, 36897), (209, 36942), (216, 36963), (220, 36975), (240, 37035), (251, 37071), (264, 37110), (268, 37122), (285, 37179), (295, 37212), (305, 37254), (319, 37320), (321, 37326), (338, 37392), (348, 37425), (368, 37476), (391, 37548),

Gene: Cracklewink_63 Start: 44011, Stop: 44940, Start Num: 136
Candidate Starts for Cracklewink_63:
(134, 44005), (Start: 136 @44011 has 8 MA's), (137, 44017), (147, 44071), (155, 44116), (158, 44128), (160, 44140), (172, 44173), (200, 44260), (207, 44296), (221, 44338), (222, 44341), (244, 44413), (251, 44434), (253, 44437), (272, 44497), (283, 44536), (306, 44617), (309, 44635), (322, 44686), (334, 44734), (344, 44767), (348, 44779), (364, 44833), (372, 44866), (391, 44920),

Gene: Cucurbita_89 Start: 55149, Stop: 56192, Start Num: 97
Candidate Starts for Cucurbita_89:
(Start: 97 @55149 has 16 MA's), (Start: 99 @55152 has 8 MA's), (150, 55299), (155, 55332), (166, 55383), (195, 55482), (202, 55503), (206, 55527), (247, 55656), (251, 55668), (266, 55698), (295, 55794), (297, 55803), (309, 55857), (319, 55896), (337, 55965), (352, 56025), (368, 56058), (371, 56076), (402, 56175),

Gene: Culver_89 Start: 53256, Stop: 54293, Start Num: 99
Candidate Starts for Culver_89:
(Start: 97 @53253 has 16 MA's), (Start: 99 @53256 has 8 MA's), (124, 53298), (151, 53409), (155, 53436), (166, 53487), (195, 53586), (202, 53607), (206, 53631), (247, 53760), (251, 53772), (277, 53844), (295, 53898), (309, 53961), (337, 54069), (349, 54120), (352, 54129), (368, 54159), (397, 54246), (402, 54276),

Gene: Daegal_57 Start: 39484, Stop: 40455, Start Num: 117
Candidate Starts for Daegal_57:
(12, 39091), (17, 39121), (24, 39214), (37, 39298), (Start: 59 @39364 has 10 MA's), (62, 39373), (Start: 84 @39442 has 1 MA's), (Start: 117 @39484 has 14 MA's), (151, 39595), (155, 39622), (158, 39634), (177, 39691), (190, 39742), (224, 39853), (237, 39901), (260, 39982), (277, 40048), (283, 40066), (285, 40069), (297, 40111), (324, 40219), (325, 40225), (344, 40294), (348, 40306), (360, 40339), (370, 40378),

Gene: Daredevil_85 Start: 59811, Stop: 58786, Start Num: 109
Candidate Starts for Daredevil_85:
(Start: 109 @59811 has 6 MA's), (Start: 119 @59796 has 20 MA's), (133, 59769), (166, 59598), (196, 59496), (205, 59454), (211, 59433), (247, 59316), (254, 59298), (255, 59295), (264, 59280), (266, 59274), (268, 59268), (295, 59178), (309, 59115), (312, 59106), (316, 59088), (328, 59034), (341, 58995),

Gene: DatBoi_91 Start: 63297, Stop: 62272, Start Num: 109
Candidate Starts for DatBoi_91:
(58, 63447), (81, 63360), (Start: 109 @63297 has 6 MA's), (149, 63171), (165, 63081), (166, 63078), (170, 63063), (196, 62973), (205, 62931), (211, 62910), (248, 62790), (254, 62775), (255, 62772), (256, 62766), (268, 62745), (275, 62718), (287, 62682), (295, 62655), (306, 62610), (314, 62571), (326, 62520), (341, 62472), (344, 62460), (364, 62394),

Gene: DeepSoil15_55 Start: 38900, Stop: 39871, Start Num: 117

Candidate Starts for DeepSoil15_55:
(12, 38507), (17, 38537), (24, 38630), (37, 38714), (Start: 59 @38780 has 10 MA's), (62, 38789), (Start: 84 @38858 has 1 MA's), (Start: 117 @38900 has 14 MA's), (151, 39011), (155, 39038), (158, 39050), (177, 39107), (190, 39158), (224, 39269), (237, 39317), (260, 39398), (277, 39464), (283, 39482), (285, 39485), (297, 39527), (325, 39641), (344, 39710), (348, 39722), (360, 39755), (370, 39794),

Gene: Delian_61 Start: 37247, Stop: 38176, Start Num: 131
Candidate Starts for Delian_61:
(4, 36473), (37, 36998), (67, 37097), (96, 37196), (104, 37208), (Start: 131 @37247 has 37 MA's), (Start: 136 @37262 has 8 MA's), (144, 37307), (155, 37367), (158, 37379), (224, 37604), (240, 37655), (247, 37679), (268, 37733), (288, 37799), (294, 37820), (306, 37871), (312, 37898), (320, 37928), (348, 38030),

Gene: Delrey21_50 Start: 43180, Stop: 44334, Start Num: 105
Candidate Starts for Delrey21_50:
(Start: 105 @43180 has 15 MA's), (126, 43219), (149, 43312), (151, 43321), (155, 43354), (156, 43360), (169, 43411), (181, 43444), (183, 43450), (208, 43543), (247, 43666), (256, 43699), (259, 43714), (261, 43720), (277, 43783), (280, 43795), (284, 43813), (324, 43984), (363, 44143), (386, 44221), (405, 44302),

Gene: Derg_43 Start: 40440, Stop: 41564, Start Num: 100
Candidate Starts for Derg_43:
(74, 40371), (Start: 100 @40440 has 60 MA's), (126, 40476), (149, 40569), (155, 40611), (156, 40617), (169, 40668), (183, 40707), (208, 40797), (237, 40878), (256, 40953), (261, 40974), (270, 41007), (280, 41049), (313, 41187), (345, 41301), (350, 41328), (367, 41388), (386, 41454), (401, 41487),

Gene: Dewey_52 Start: 38780, Stop: 39871, Start Num: 59
Candidate Starts for Dewey_52:
(12, 38507), (17, 38537), (24, 38630), (37, 38714), (Start: 59 @38780 has 10 MA's), (62, 38789), (Start: 84 @38858 has 1 MA's), (Start: 117 @38900 has 14 MA's), (151, 39011), (155, 39038), (158, 39050), (177, 39107), (190, 39158), (224, 39269), (237, 39317), (260, 39398), (277, 39464), (283, 39482), (285, 39485), (297, 39527), (325, 39641), (344, 39710), (348, 39722), (360, 39755), (370, 39794),

Gene: Dexdert_46 Start: 38194, Stop: 39375, Start Num: 100
Candidate Starts for Dexdert_46:
(25, 37912), (72, 38119), (Start: 100 @38194 has 60 MA's), (149, 38326), (151, 38335), (155, 38368), (156, 38374), (169, 38425), (208, 38554), (247, 38680), (256, 38713), (261, 38734), (280, 38809), (285, 38839), (312, 38953), (324, 38998), (337, 39046), (345, 39073), (356, 39136), (363, 39184), (367, 39196), (369, 39208), (383, 39256), (386, 39262), (405, 39343),

Gene: DoctorFroggo_50 Start: 43180, Stop: 44334, Start Num: 105
Candidate Starts for DoctorFroggo_50:
(Start: 105 @43180 has 15 MA's), (126, 43219), (149, 43312), (151, 43321), (155, 43354), (156, 43360), (169, 43411), (181, 43444), (183, 43450), (208, 43543), (247, 43666), (256, 43699), (259, 43714), (261, 43720), (277, 43783), (280, 43795), (284, 43813), (324, 43984), (363, 44143), (386, 44221), (405, 44302),

Gene: DonTron_82 Start: 52715, Stop: 53728, Start Num: 102
Candidate Starts for DonTron_82:
(53, 52553), (71, 52622), (96, 52706), (Start: 102 @52715 has 16 MA's), (159, 52901), (169, 52940), (177, 52958), (203, 53051), (230, 53120), (247, 53201), (258, 53240), (272, 53300), (287, 53336),

(289, 53342), (302, 53375), (316, 53441), (332, 53498), (400, 53705),

Gene: Dori_63 Start: 49123, Stop: 50127, Start Num: 112
Candidate Starts for Dori_63:
(Start: 112 @49123 has 44 MA's), (151, 49246), (155, 49273), (169, 49324), (171, 49327), (178, 49351), (222, 49477), (237, 49528), (242, 49552), (245, 49564), (247, 49570), (254, 49594), (257, 49606), (312, 49786), (313, 49795), (321, 49816), (324, 49828), (342, 49891), (344, 49900), (365, 49957), (384, 50023), (392, 50038),

Gene: DrYang_47 Start: 38532, Stop: 39488, Start Num: 119
Candidate Starts for DrYang_47:
(Start: 119 @38532 has 20 MA's), (142, 38607), (150, 38643), (155, 38676), (158, 38688), (186, 38781), (190, 38796), (197, 38811), (200, 38817), (209, 38862), (216, 38883), (220, 38895), (247, 38979), (251, 38991), (264, 39030), (295, 39132), (297, 39141), (312, 39213), (319, 39240), (336, 39306), (343, 39330), (344, 39333), (346, 39339), (348, 39345), (364, 39384), (376, 39423), (391, 39468),

Gene: DreamEater_50 Start: 33476, Stop: 34402, Start Num: 102
Candidate Starts for DreamEater_50:
(61, 33344), (Start: 102 @33476 has 16 MA's), (113, 33482), (147, 33590), (169, 33686), (172, 33692), (178, 33713), (219, 33833), (243, 33920), (245, 33929), (256, 33968), (263, 34007), (274, 34046), (304, 34118), (344, 34253), (358, 34298),

Gene: Duplicity_47 Start: 32451, Stop: 33461, Start Num: 112
Candidate Starts for Duplicity_47:
(Start: 112 @32451 has 44 MA's), (141, 32526), (149, 32565), (151, 32574), (155, 32601), (169, 32652), (171, 32655), (178, 32679), (222, 32805), (237, 32856), (242, 32880), (245, 32892), (254, 32922), (312, 33114), (313, 33123), (318, 33141), (328, 33183), (343, 33231), (347, 33243), (392, 33372),

Gene: Dusty_85 Start: 52844, Stop: 53884, Start Num: 99
Candidate Starts for Dusty_85:
(Start: 97 @52841 has 16 MA's), (Start: 99 @52844 has 8 MA's), (150, 52991), (155, 53024), (166, 53075), (195, 53174), (202, 53195), (206, 53219), (247, 53348), (251, 53360), (295, 53486), (309, 53549), (319, 53588), (337, 53657), (341, 53669), (352, 53717), (368, 53750), (371, 53768), (402, 53867),

Gene: EGUnicorn_45 Start: 31139, Stop: 32149, Start Num: 112
Candidate Starts for EGUnicorn_45:
(Start: 112 @31139 has 44 MA's), (149, 31253), (151, 31262), (155, 31289), (169, 31340), (171, 31343), (194, 31409), (202, 31436), (237, 31544), (241, 31562), (245, 31580), (318, 31829), (343, 31919), (347, 31931), (365, 31979), (392, 32060),

Gene: EMoore_45 Start: 41058, Stop: 42209, Start Num: 97
Candidate Starts for EMoore_45:
(7, 40575), (14, 40695), (21, 40773), (27, 40815), (28, 40824), (Start: 97 @41058 has 16 MA's), (151, 41208), (155, 41241), (156, 41247), (169, 41295), (183, 41334), (193, 41364), (199, 41382), (200, 41385), (202, 41394), (208, 41427), (245, 41544), (247, 41550), (256, 41583), (261, 41604), (303, 41781), (312, 41823), (313, 41829), (363, 42018), (386, 42096),

Gene: EastWest_35 Start: 28014, Stop: 29039, Start Num: 115
Candidate Starts for EastWest_35:

(Start: 115 @28014 has 26 MA's), (150, 28131), (152, 28137), (169, 28215), (179, 28245), (185, 28260), (242, 28443), (245, 28455), (255, 28488), (299, 28617), (351, 28824), (361, 28848), (378, 28893), (403, 28980),

Gene: EdgarPoe_46 Start: 36612, Stop: 37565, Start Num: 119
Candidate Starts for EdgarPoe_46:
(Start: 119 @36612 has 20 MA's), (150, 36723), (155, 36756), (158, 36768), (186, 36861), (192, 36879), (197, 36891), (200, 36897), (209, 36942), (216, 36963), (220, 36975), (240, 37035), (251, 37071), (264, 37110), (268, 37122), (285, 37179), (295, 37212), (305, 37254), (319, 37320), (321, 37326), (338, 37392), (348, 37425), (368, 37476), (391, 37548),

Gene: EdmundFerry_44 Start: 37970, Stop: 39154, Start Num: 100
Candidate Starts for EdmundFerry_44:
(54, 37829), (Start: 100 @37970 has 60 MA's), (149, 38099), (155, 38141), (156, 38147), (169, 38198), (208, 38327), (247, 38453), (256, 38486), (261, 38507), (312, 38726), (324, 38771), (330, 38795), (337, 38819), (350, 38870), (354, 38897), (367, 38969), (369, 38981), (381, 39020), (383, 39029), (386, 39035), (392, 39050), (398, 39059), (405, 39116),

Gene: Ein37_55 Start: 38900, Stop: 39871, Start Num: 117
Candidate Starts for Ein37_55:
(12, 38507), (17, 38537), (24, 38630), (37, 38714), (Start: 59 @38780 has 10 MA's), (62, 38789), (Start: 84 @38858 has 1 MA's), (Start: 117 @38900 has 14 MA's), (151, 39011), (155, 39038), (158, 39050), (177, 39107), (190, 39158), (224, 39269), (237, 39317), (260, 39398), (277, 39464), (283, 39482), (285, 39485), (297, 39527), (325, 39641), (344, 39710), (348, 39722), (360, 39755), (370, 39794),

Gene: Engineer_89 Start: 54615, Stop: 55658, Start Num: 97
Candidate Starts for Engineer_89:
(Start: 97 @54615 has 16 MA's), (Start: 99 @54618 has 8 MA's), (150, 54765), (155, 54798), (166, 54849), (195, 54948), (202, 54969), (206, 54993), (247, 55122), (251, 55134), (266, 55164), (295, 55260), (297, 55269), (309, 55323), (319, 55362), (337, 55431), (352, 55491), (368, 55524), (371, 55542), (402, 55641),

Gene: Evanesce_54 Start: 38900, Stop: 39871, Start Num: 117
Candidate Starts for Evanesce_54:
(37, 38714), (Start: 59 @38780 has 10 MA's), (62, 38789), (Start: 84 @38858 has 1 MA's), (Start: 117 @38900 has 14 MA's), (151, 39011), (155, 39038), (158, 39050), (177, 39107), (190, 39158), (224, 39269), (237, 39317), (260, 39398), (277, 39464), (283, 39482), (285, 39485), (297, 39527), (325, 39641), (344, 39710), (348, 39722), (360, 39755), (370, 39794),

Gene: Eviarto_59 Start: 41266, Stop: 42195, Start Num: 131
Candidate Starts for Eviarto_59:
(44, 41032), (46, 41038), (52, 41056), (67, 41110), (73, 41134), (92, 41206), (96, 41209), (Start: 97 @41212 has 16 MA's), (Start: 131 @41266 has 37 MA's), (Start: 136 @41281 has 8 MA's), (143, 41323), (144, 41326), (155, 41386), (158, 41398), (224, 41623), (240, 41674), (247, 41698), (268, 41752), (273, 41770), (288, 41818), (294, 41839), (306, 41890), (309, 41908), (312, 41917), (348, 42049),

Gene: Fairfaxidum_59 Start: 39599, Stop: 40528, Start Num: 131
Candidate Starts for Fairfaxidum_59:
(33, 39335), (52, 39395), (63, 39440), (70, 39464), (91, 39545), (Start: 131 @39599 has 37 MA's), (Start: 136 @39614 has 8 MA's), (143, 39656), (144, 39659), (155, 39719), (158, 39731), (190, 39851), (224, 39956), (268, 40085), (288, 40151), (294, 40172), (306, 40223), (309, 40241), (320, 40280),

(344, 40370), (348, 40382), (372, 40460),

Gene: Faiyaz_66 Start: 45550, Stop: 46464, Start Num: 136
Candidate Starts for Faiyaz_66:
(Start: 136 @45550 has 8 MA's), (151, 45628), (158, 45667), (160, 45679), (222, 45880), (244, 45952), (251, 45973), (254, 45979), (267, 46012), (268, 46015), (283, 46069), (306, 46150), (309, 46168), (348, 46309), (352, 46333), (395, 46456),

Gene: Fenry_56 Start: 38757, Stop: 39686, Start Num: 131
Candidate Starts for Fenry_56:
(Start: 131 @38757 has 37 MA's), (Start: 136 @38772 has 8 MA's), (144, 38817), (155, 38877), (158, 38889), (224, 39114), (240, 39165), (247, 39189), (268, 39243), (288, 39309), (294, 39330), (306, 39381), (309, 39399), (348, 39540),

Gene: Fitzgerald_47 Start: 42195, Stop: 43319, Start Num: 100
Candidate Starts for Fitzgerald_47:
(Start: 100 @42195 has 60 MA's), (126, 42231), (149, 42324), (155, 42366), (156, 42372), (169, 42423), (181, 42456), (203, 42531), (208, 42552), (237, 42633), (247, 42675), (256, 42708), (261, 42729), (280, 42804), (313, 42942), (345, 43056), (367, 43143), (386, 43209), (392, 43224), (401, 43242),

Gene: Flatwoods_48 Start: 40789, Stop: 41913, Start Num: 100
Candidate Starts for Flatwoods_48:
(74, 40720), (Start: 100 @40789 has 60 MA's), (126, 40825), (149, 40918), (155, 40960), (156, 40966), (169, 41017), (183, 41056), (208, 41146), (237, 41227), (256, 41302), (261, 41323), (280, 41398), (313, 41536), (345, 41650), (350, 41677), (367, 41737), (386, 41803), (401, 41836),

Gene: Forge_52 Start: 38780, Stop: 39871, Start Num: 59
Candidate Starts for Forge_52:
(12, 38507), (17, 38537), (24, 38630), (37, 38714), (Start: 59 @38780 has 10 MA's), (62, 38789), (Start: 84 @38858 has 1 MA's), (Start: 117 @38900 has 14 MA's), (151, 39011), (155, 39038), (158, 39050), (177, 39107), (190, 39158), (224, 39269), (237, 39317), (260, 39398), (277, 39464), (283, 39482), (285, 39485), (297, 39527), (325, 39641), (344, 39710), (348, 39722), (360, 39755), (370, 39794),

Gene: Fosterous_46 Start: 40754, Stop: 41881, Start Num: 100
Candidate Starts for Fosterous_46:
(Start: 100 @40754 has 60 MA's), (126, 40793), (149, 40886), (155, 40928), (156, 40934), (169, 40985), (181, 41018), (203, 41093), (208, 41114), (247, 41237), (256, 41270), (261, 41291), (280, 41366), (313, 41504), (345, 41618), (350, 41645), (367, 41705), (386, 41771), (392, 41786), (401, 41804),

Gene: Franzy_32 Start: 28454, Stop: 29482, Start Num: 115
Candidate Starts for Franzy_32:
(Start: 115 @28454 has 26 MA's), (163, 28637), (169, 28655), (179, 28685), (185, 28700), (242, 28883), (245, 28895), (287, 29033), (291, 29045), (299, 29057), (319, 29144), (351, 29264), (361, 29288), (365, 29300),

Gene: FuegoCuervo_51 Start: 40622, Stop: 41746, Start Num: 100
Candidate Starts for FuegoCuervo_51:
(Start: 100 @40622 has 60 MA's), (126, 40661), (149, 40754), (155, 40796), (156, 40802), (169, 40853), (181, 40886), (203, 40961), (208, 40982), (247, 41105), (256, 41138), (261, 41159), (280, 41234), (313, 41372), (345, 41486), (350, 41513), (367, 41573), (386, 41639), (392, 41654), (401,

41672),

Gene: Fulbright_46 Start: 31531, Stop: 32541, Start Num: 112
Candidate Starts for Fulbright_46:
(Start: 112 @31531 has 44 MA's), (141, 31606), (149, 31645), (151, 31654), (155, 31681), (169, 31732), (171, 31735), (178, 31759), (222, 31885), (237, 31936), (242, 31960), (245, 31972), (254, 32002), (312, 32194), (313, 32203), (318, 32221), (328, 32263), (343, 32311), (347, 32323), (392, 32452),

Gene: GTE6_45 Start: 38462, Stop: 39616, Start Num: 100
Candidate Starts for GTE6_45:
(54, 38321), (Start: 100 @38462 has 60 MA's), (149, 38591), (155, 38633), (156, 38639), (169, 38690), (208, 38819), (212, 38825), (247, 38945), (256, 38978), (261, 38999), (285, 39104), (312, 39218), (324, 39263), (330, 39287), (337, 39311), (367, 39431), (369, 39443), (381, 39482), (383, 39491), (386, 39497), (392, 39512), (398, 39521), (405, 39578),

Gene: Gaea_47 Start: 40432, Stop: 41565, Start Num: 100
Candidate Starts for Gaea_47:
(74, 40363), (Start: 100 @40432 has 60 MA's), (149, 40570), (155, 40612), (156, 40618), (169, 40669), (181, 40702), (183, 40708), (208, 40798), (256, 40954), (261, 40975), (280, 41050), (313, 41188), (345, 41302), (350, 41329), (367, 41389), (386, 41455), (392, 41470), (401, 41488),

Gene: Galadriel_48 Start: 41561, Stop: 42682, Start Num: 100
Candidate Starts for Galadriel_48:
(80, 41522), (Start: 100 @41561 has 60 MA's), (126, 41597), (149, 41690), (155, 41732), (156, 41738), (169, 41789), (181, 41822), (203, 41897), (208, 41918), (247, 42041), (256, 42074), (261, 42095), (280, 42170), (313, 42308), (345, 42422), (350, 42449), (367, 42509), (386, 42575), (392, 42590), (401, 42608),

Gene: Gallop_56 Start: 38562, Stop: 39530, Start Num: 135
Candidate Starts for Gallop_56:
(135, 38562), (145, 38619), (148, 38643), (156, 38691), (158, 38697), (175, 38754), (180, 38772), (231, 38937), (237, 38958), (240, 38970), (242, 38982), (245, 38994), (278, 39120), (290, 39150), (307, 39228), (310, 39243), (357, 39414), (362, 39426), (369, 39453),

Gene: Gambino_61 Start: 39736, Stop: 40665, Start Num: 131
Candidate Starts for Gambino_61:
(Start: 131 @39736 has 37 MA's), (Start: 136 @39751 has 8 MA's), (144, 39796), (155, 39856), (158, 39868), (197, 40003), (224, 40093), (240, 40144), (247, 40168), (249, 40171), (268, 40222), (288, 40288), (294, 40309), (306, 40360), (309, 40378), (348, 40519), (364, 40564), (376, 40603), (390, 40642),

Gene: Gancho_54 Start: 38623, Stop: 39594, Start Num: 117
Candidate Starts for Gancho_54:
(12, 38230), (17, 38260), (24, 38353), (37, 38437), (Start: 59 @38503 has 10 MA's), (62, 38512), (Start: 84 @38581 has 1 MA's), (Start: 117 @38623 has 14 MA's), (151, 38734), (155, 38761), (158, 38773), (177, 38830), (190, 38881), (224, 38992), (237, 39040), (260, 39121), (277, 39187), (283, 39205), (285, 39208), (297, 39250), (325, 39364), (344, 39433), (348, 39445), (360, 39478), (370, 39517), (372, 39523),

Gene: Geeche_86 Start: 53681, Stop: 54721, Start Num: 99
Candidate Starts for Geeche_86:

(Start: 97 @53678 has 16 MA's), (Start: 99 @53681 has 8 MA's), (150, 53828), (155, 53861), (166, 53912), (195, 54011), (202, 54032), (206, 54056), (247, 54185), (251, 54197), (295, 54323), (309, 54386), (319, 54425), (337, 54494), (352, 54554), (368, 54587), (371, 54605), (402, 54704),

Gene: Geodirt_47 Start: 42173, Stop: 43297, Start Num: 100
Candidate Starts for Geodirt_47:
(Start: 100 @42173 has 60 MA's), (126, 42212), (149, 42305), (155, 42347), (156, 42353), (169, 42404), (181, 42437), (203, 42512), (208, 42533), (247, 42656), (256, 42689), (261, 42710), (280, 42785), (313, 42923), (345, 43037), (350, 43064), (367, 43124), (386, 43190), (392, 43205), (401, 43223),

Gene: Gex_47 Start: 32458, Stop: 33468, Start Num: 112
Candidate Starts for Gex_47:
(Start: 112 @32458 has 44 MA's), (141, 32533), (149, 32572), (151, 32581), (155, 32608), (169, 32659), (171, 32662), (178, 32686), (222, 32812), (237, 32863), (242, 32887), (245, 32899), (254, 32929), (312, 33121), (313, 33130), (318, 33148), (328, 33190), (343, 33238), (347, 33250), (392, 33379),

Gene: Giles_52 Start: 38780, Stop: 39871, Start Num: 59
Candidate Starts for Giles_52:
(12, 38507), (17, 38537), (24, 38630), (37, 38714), (Start: 59 @38780 has 10 MA's), (62, 38789), (Start: 84 @38858 has 1 MA's), (Start: 117 @38900 has 14 MA's), (151, 39011), (155, 39038), (158, 39050), (177, 39107), (190, 39158), (224, 39269), (237, 39317), (260, 39398), (277, 39464), (283, 39482), (285, 39485), (297, 39527), (325, 39641), (344, 39710), (348, 39722), (360, 39755), (370, 39794),

Gene: Gravaillia_53 Start: 38794, Stop: 39885, Start Num: 59
Candidate Starts for Gravaillia_53:
(12, 38521), (16, 38542), (17, 38551), (24, 38644), (37, 38728), (Start: 59 @38794 has 10 MA's), (62, 38803), (Start: 84 @38872 has 1 MA's), (Start: 117 @38914 has 14 MA's), (151, 39025), (155, 39052), (158, 39064), (177, 39121), (190, 39172), (224, 39283), (237, 39331), (260, 39412), (268, 39442), (277, 39478), (283, 39496), (285, 39499), (297, 39541), (319, 39631), (324, 39649), (325, 39655), (344, 39724), (348, 39736), (360, 39769), (370, 39808),

Gene: GravityBall_34 Start: 28804, Stop: 29823, Start Num: 115
Candidate Starts for GravityBall_34:
(Start: 115 @28804 has 26 MA's), (150, 28921), (169, 29005), (173, 29017), (179, 29035), (191, 29071), (245, 29245), (247, 29251), (262, 29308), (272, 29347), (287, 29383), (291, 29395), (299, 29407), (365, 29650),

Gene: Grekaycon_34 Start: 28720, Stop: 29739, Start Num: 115
Candidate Starts for Grekaycon_34:
(Start: 115 @28720 has 26 MA's), (169, 28921), (173, 28933), (179, 28951), (188, 28981), (191, 28987), (245, 29161), (247, 29167), (262, 29224), (287, 29299), (299, 29323), (301, 29332), (319, 29410), (339, 29482), (341, 29488), (401, 29665),

Gene: Grumio_83 Start: 52315, Stop: 53328, Start Num: 102
Candidate Starts for Grumio_83:
(53, 52153), (71, 52222), (96, 52306), (Start: 102 @52315 has 16 MA's), (159, 52501), (169, 52540), (177, 52558), (203, 52651), (230, 52720), (247, 52801), (258, 52840), (272, 52900), (287, 52936), (289, 52942), (302, 52975), (316, 53041), (332, 53098), (400, 53305),

Gene: Guacamole_55 Start: 37476, Stop: 38405, Start Num: 131

Candidate Starts for Guacamole_55:
(91, 37422), (96, 37425), (104, 37437), (Start: 131 @37476 has 37 MA's), (Start: 136 @37491 has 8 MA's), (143, 37533), (144, 37536), (151, 37569), (155, 37596), (158, 37608), (224, 37833), (240, 37884), (247, 37908), (268, 37962), (288, 38028), (294, 38049), (306, 38100), (312, 38127), (320, 38157), (348, 38259),

Gene: Gustavo_47 Start: 40605, Stop: 41738, Start Num: 100
Candidate Starts for Gustavo_47:
(74, 40536), (Start: 100 @40605 has 60 MA's), (149, 40743), (155, 40785), (156, 40791), (169, 40842), (181, 40875), (183, 40881), (184, 40884), (208, 40971), (256, 41127), (261, 41148), (280, 41223), (313, 41361), (345, 41475), (350, 41502), (367, 41562), (386, 41628), (392, 41643), (401, 41661),

Gene: HH92_54 Start: 38900, Stop: 39871, Start Num: 117
Candidate Starts for HH92_54:
(12, 38507), (17, 38537), (24, 38630), (37, 38714), (Start: 59 @38780 has 10 MA's), (62, 38789), (Start: 84 @38858 has 1 MA's), (Start: 117 @38900 has 14 MA's), (151, 39011), (155, 39038), (158, 39050), (177, 39107), (190, 39158), (224, 39269), (237, 39317), (260, 39398), (277, 39464), (283, 39482), (285, 39485), (297, 39527), (325, 39641), (344, 39710), (348, 39722), (360, 39755), (370, 39794),

Gene: Hadrien_54 Start: 38780, Stop: 39871, Start Num: 59
Candidate Starts for Hadrien_54:
(12, 38507), (17, 38537), (24, 38630), (37, 38714), (Start: 59 @38780 has 10 MA's), (62, 38789), (Start: 84 @38858 has 1 MA's), (Start: 117 @38900 has 14 MA's), (151, 39011), (155, 39038), (158, 39050), (177, 39107), (190, 39158), (224, 39269), (237, 39317), (260, 39398), (277, 39464), (283, 39482), (285, 39485), (297, 39527), (325, 39641), (344, 39710), (348, 39722), (360, 39755), (370, 39794),

Gene: Hail_52 Start: 38780, Stop: 39871, Start Num: 59
Candidate Starts for Hail_52:
(12, 38507), (17, 38537), (24, 38630), (37, 38714), (Start: 59 @38780 has 10 MA's), (62, 38789), (Start: 84 @38858 has 1 MA's), (Start: 117 @38900 has 14 MA's), (151, 39011), (155, 39038), (158, 39050), (177, 39107), (190, 39158), (224, 39269), (237, 39317), (260, 39398), (277, 39464), (283, 39482), (285, 39485), (297, 39527), (325, 39641), (344, 39710), (348, 39722), (360, 39755), (370, 39794),

Gene: Hanako_51 Start: 33348, Stop: 34358, Start Num: 112
Candidate Starts for Hanako_51:
(Start: 112 @33348 has 44 MA's), (149, 33462), (151, 33471), (155, 33498), (169, 33549), (171, 33552), (194, 33618), (202, 33645), (237, 33753), (241, 33771), (245, 33789), (318, 34038), (343, 34128), (347, 34140), (365, 34188), (392, 34269),

Gene: Hans_49 Start: 40497, Stop: 41648, Start Num: 97
Candidate Starts for Hans_49:
(Start: 97 @40497 has 16 MA's), (139, 40581), (149, 40638), (151, 40647), (155, 40680), (156, 40686), (169, 40734), (183, 40773), (193, 40803), (199, 40821), (200, 40824), (202, 40833), (245, 40983), (247, 40989), (256, 41022), (261, 41043), (277, 41106), (303, 41220), (312, 41262), (313, 41268), (350, 41406), (392, 41550), (405, 41616),

Gene: Hilltopfarm_65 Start: 45250, Stop: 46164, Start Num: 136
Candidate Starts for Hilltopfarm_65:
(Start: 136 @45250 has 8 MA's), (151, 45328), (158, 45367), (160, 45379), (222, 45580), (244, 45652), (251, 45673), (254, 45679), (267, 45712), (268, 45715), (283, 45769), (306, 45850), (309, 45868),

(348, 46009), (352, 46033), (395, 46156),

Gene: Hitter_58 Start: 37052, Stop: 37981, Start Num: 131
Candidate Starts for Hitter_58:
(96, 37001), (104, 37013), (Start: 131 @37052 has 37 MA's), (Start: 136 @37067 has 8 MA's), (143, 37109), (144, 37112), (155, 37172), (158, 37184), (224, 37409), (240, 37460), (247, 37484), (268, 37538), (288, 37604), (294, 37625), (306, 37676), (312, 37703), (320, 37733), (348, 37835),

Gene: HumptyDumpty_46 Start: 36470, Stop: 37423, Start Num: 119
Candidate Starts for HumptyDumpty_46:
(Start: 119 @36470 has 20 MA's), (150, 36581), (155, 36614), (158, 36626), (186, 36719), (192, 36737), (197, 36749), (200, 36755), (209, 36800), (216, 36821), (220, 36833), (240, 36893), (242, 36899), (251, 36929), (264, 36968), (268, 36980), (285, 37037), (295, 37070), (319, 37178), (338, 37250), (348, 37283), (368, 37334), (388, 37397), (391, 37406),

Gene: Impisi_52 Start: 33145, Stop: 34155, Start Num: 112
Candidate Starts for Impisi_52:
(Start: 112 @33145 has 44 MA's), (149, 33259), (151, 33268), (155, 33295), (169, 33346), (171, 33349), (194, 33415), (202, 33442), (237, 33550), (241, 33568), (245, 33586), (318, 33835), (343, 33925), (347, 33937), (365, 33985), (392, 34066),

Gene: Inspectinfecti_48 Start: 40943, Stop: 42094, Start Num: 97
Candidate Starts for Inspectinfecti_48:
(Start: 97 @40943 has 16 MA's), (139, 41027), (149, 41084), (151, 41093), (155, 41126), (156, 41132), (169, 41180), (183, 41219), (193, 41249), (199, 41267), (200, 41270), (202, 41279), (245, 41429), (247, 41435), (256, 41468), (261, 41489), (277, 41552), (303, 41666), (312, 41708), (313, 41714), (350, 41852), (392, 41996), (405, 42062),

Gene: Island3_48 Start: 33774, Stop: 34781, Start Num: 112
Candidate Starts for Island3_48:
(69, 33654), (Start: 112 @33774 has 44 MA's), (149, 33885), (151, 33894), (155, 33921), (169, 33972), (171, 33975), (188, 34032), (194, 34041), (222, 34125), (237, 34176), (242, 34200), (245, 34212), (313, 34443), (318, 34461), (324, 34482), (326, 34497), (343, 34551), (344, 34554), (347, 34563), (350, 34581), (365, 34611), (392, 34692),

Gene: JKSyngboy_45 Start: 41204, Stop: 42337, Start Num: 100
Candidate Starts for JKSyngboy_45:
(74, 41135), (Start: 100 @41204 has 60 MA's), (149, 41342), (155, 41384), (156, 41390), (169, 41441), (181, 41474), (183, 41480), (184, 41483), (208, 41570), (256, 41726), (261, 41747), (280, 41822), (313, 41960), (345, 42074), (350, 42101), (367, 42161), (386, 42227), (392, 42242), (401, 42260),

Gene: JKerns_34 Start: 28666, Stop: 29685, Start Num: 115
Candidate Starts for JKerns_34:
(Start: 115 @28666 has 26 MA's), (169, 28867), (173, 28879), (179, 28897), (188, 28927), (237, 29071), (245, 29107), (247, 29113), (262, 29170), (287, 29245), (299, 29269), (339, 29428), (341, 29434), (401, 29611), (403, 29632), (405, 29659),

Gene: JaNo_46 Start: 36470, Stop: 37423, Start Num: 119
Candidate Starts for JaNo_46:
(Start: 119 @36470 has 20 MA's), (150, 36581), (155, 36614), (158, 36626), (186, 36719), (192, 36737), (197, 36749), (200, 36755), (209, 36800), (216, 36821), (220, 36833), (240, 36893), (242, 36899), (251, 36929), (264, 36968), (268, 36980), (285, 37037), (295, 37070), (319, 37178), (338, 37250), (348, 37283), (368, 37334), (388, 37397), (391, 37406),

Gene: Jabberwocky_47 Start: 42599, Stop: 43762, Start Num: 100
Candidate Starts for Jabberwocky_47:
(Start: 100 @42599 has 60 MA's), (126, 42638), (149, 42731), (155, 42773), (156, 42779), (169, 42830), (181, 42863), (203, 42938), (208, 42959), (237, 43040), (247, 43082), (256, 43115), (261, 43136), (280, 43211), (313, 43349), (345, 43463), (353, 43511), (355, 43526), (367, 43586), (386, 43652), (392, 43667), (401, 43685),

Gene: Jace_31 Start: 25322, Stop: 26353, Start Num: 100
Candidate Starts for Jace_31:
(Start: 100 @25322 has 60 MA's), (113, 25343), (160, 25523), (175, 25571), (203, 25664), (208, 25685), (245, 25793), (246, 25796), (253, 25820), (288, 25934), (299, 25955), (347, 26132), (350, 26150),

Gene: Jalammah_61 Start: 40055, Stop: 40984, Start Num: 131
Candidate Starts for Jalammah_61:
(91, 40001), (96, 40004), (104, 40016), (Start: 131 @40055 has 37 MA's), (Start: 136 @40070 has 8 MA's), (143, 40112), (144, 40115), (151, 40148), (155, 40175), (158, 40187), (197, 40322), (224, 40412), (247, 40487), (268, 40541), (288, 40607), (294, 40628), (306, 40679), (312, 40706), (320, 40736), (348, 40838),

Gene: Jamie19_45 Start: 31639, Stop: 32649, Start Num: 112
Candidate Starts for Jamie19_45:
(Start: 112 @31639 has 44 MA's), (141, 31714), (149, 31753), (151, 31762), (155, 31789), (169, 31840), (171, 31843), (194, 31909), (202, 31936), (237, 32044), (241, 32062), (245, 32080), (318, 32329), (343, 32419), (347, 32431), (365, 32479), (392, 32560),

Gene: JasperJr_55 Start: 37476, Stop: 38405, Start Num: 131
Candidate Starts for JasperJr_55:
(91, 37422), (96, 37425), (104, 37437), (Start: 131 @37476 has 37 MA's), (Start: 136 @37491 has 8 MA's), (143, 37533), (144, 37536), (151, 37569), (155, 37596), (158, 37608), (224, 37833), (240, 37884), (247, 37908), (268, 37962), (288, 38028), (294, 38049), (306, 38100), (312, 38127), (320, 38157), (348, 38259),

Gene: Jawnski_32 Start: 28461, Stop: 29489, Start Num: 115
Candidate Starts for Jawnski_32:
(Start: 115 @28461 has 26 MA's), (150, 28578), (163, 28644), (169, 28662), (179, 28692), (188, 28722), (245, 28902), (262, 28965), (287, 29040), (291, 29052), (299, 29064), (341, 29229), (365, 29307),

Gene: JayCookie_46 Start: 36606, Stop: 37559, Start Num: 119
Candidate Starts for JayCookie_46:
(Start: 119 @36606 has 20 MA's), (150, 36717), (155, 36750), (158, 36762), (186, 36855), (192, 36873), (197, 36885), (200, 36891), (209, 36936), (216, 36957), (220, 36969), (240, 37029), (242, 37035), (251, 37065), (264, 37104), (268, 37116), (285, 37173), (295, 37206), (319, 37314), (338, 37386), (348, 37419), (368, 37470), (388, 37533), (391, 37542),

Gene: Jollymon_82 Start: 52837, Stop: 53850, Start Num: 102
Candidate Starts for Jollymon_82:
(53, 52675), (71, 52744), (96, 52828), (Start: 102 @52837 has 16 MA's), (159, 53023), (169, 53062), (177, 53080), (203, 53173), (230, 53242), (247, 53323), (258, 53362), (272, 53422), (287, 53458), (289, 53464), (302, 53497), (316, 53563), (332, 53620), (400, 53827),

Gene: JonJames_100 Start: 60136, Stop: 61155, Start Num: 103
Candidate Starts for JonJames_100:
(Start: 103 @60136 has 3 MA's), (133, 60190), (134, 60193), (174, 60388), (176, 60391), (202, 60481), (205, 60502), (206, 60505), (275, 60706), (277, 60715), (285, 60736), (309, 60832), (317, 60865), (325, 60895), (335, 60937), (341, 60952), (348, 60976), (350, 60994), (368, 61030), (379, 61066),

Gene: Jordan_34 Start: 28716, Stop: 29735, Start Num: 115
Candidate Starts for Jordan_34:
(Start: 115 @28716 has 26 MA's), (169, 28917), (173, 28929), (179, 28947), (188, 28977), (245, 29157), (247, 29163), (262, 29220), (287, 29295), (299, 29319), (319, 29406), (339, 29478), (341, 29484), (401, 29661),

Gene: JrWilcox_97 Start: 53551, Stop: 54615, Start Num: 120
Candidate Starts for JrWilcox_97:
(29, 53251), (Start: 120 @53551 has 1 MA's), (169, 53749), (191, 53824), (221, 53944), (245, 54049), (260, 54106), (301, 54220), (315, 54289), (320, 54307), (326, 54337), (342, 54385), (383, 54541), (399, 54580),

Gene: JuJu_64 Start: 41181, Stop: 42110, Start Num: 130
Candidate Starts for JuJu_64:
(55, 40989), (67, 41031), (73, 41055), (91, 41127), (Start: 130 @41181 has 11 MA's), (Start: 136 @41196 has 8 MA's), (143, 41238), (144, 41241), (151, 41274), (155, 41301), (158, 41313), (224, 41538), (240, 41589), (247, 41613), (268, 41667), (273, 41685), (288, 41733), (294, 41754), (306, 41805), (312, 41832), (348, 41964),

Gene: JustASigh_52 Start: 36846, Stop: 37820, Start Num: 117
Candidate Starts for JustASigh_52:
(Start: 117 @36846 has 14 MA's), (Start: 129 @36867 has 2 MA's), (158, 37020), (160, 37032), (197, 37143), (206, 37185), (214, 37209), (234, 37272), (247, 37323), (251, 37335), (309, 37530), (320, 37572), (348, 37674), (351, 37695),

Gene: KBurrousTX_46 Start: 37722, Stop: 38675, Start Num: 119
Candidate Starts for KBurrousTX_46:
(Start: 119 @37722 has 20 MA's), (142, 37797), (150, 37833), (155, 37866), (158, 37878), (186, 37971), (190, 37986), (192, 37989), (197, 38001), (200, 38007), (209, 38052), (216, 38073), (220, 38085), (240, 38145), (251, 38181), (268, 38232), (285, 38289), (295, 38322), (297, 38331), (319, 38430), (343, 38520), (348, 38535), (368, 38586), (391, 38658),

Gene: Kabreeze_46 Start: 36470, Stop: 37423, Start Num: 119
Candidate Starts for Kabreeze_46:
(Start: 119 @36470 has 20 MA's), (150, 36581), (155, 36614), (158, 36626), (186, 36719), (192, 36737), (197, 36749), (200, 36755), (209, 36800), (216, 36821), (220, 36833), (240, 36893), (242, 36899), (251, 36929), (264, 36968), (268, 36980), (285, 37037), (295, 37070), (319, 37178), (338, 37250), (348, 37283), (368, 37334), (388, 37397), (391, 37406),

Gene: Kamashten_46 Start: 40534, Stop: 41661, Start Num: 100
Candidate Starts for Kamashten_46:
(Start: 100 @40534 has 60 MA's), (126, 40573), (149, 40666), (155, 40708), (156, 40714), (169, 40765), (181, 40798), (203, 40873), (208, 40894), (247, 41017), (256, 41050), (261, 41071), (280, 41146), (313, 41284), (345, 41398), (350, 41425), (367, 41485), (386, 41551), (392, 41566), (401, 41584),

Gene: KappaFarmDelta_59 Start: 37409, Stop: 38338, Start Num: 130

Candidate Starts for KappaFarmDelta_59:
(Start: 130 @37409 has 11 MA's), (Start: 136 @37424 has 8 MA's), (143, 37466), (144, 37469), (155, 37529), (158, 37541), (224, 37766), (240, 37817), (247, 37841), (268, 37895), (288, 37961), (294, 37982), (306, 38033), (312, 38060), (320, 38090), (348, 38192),

Gene: Keitabear_48 Start: 42189, Stop: 43352, Start Num: 100
Candidate Starts for Keitabear_48:
(Start: 100 @42189 has 60 MA's), (126, 42228), (149, 42321), (155, 42363), (156, 42369), (169, 42420), (181, 42453), (203, 42528), (208, 42549), (247, 42672), (256, 42705), (261, 42726), (280, 42801), (313, 42939), (345, 43053), (353, 43101), (355, 43116), (367, 43176), (386, 43242), (392, 43257), (401, 43275),

Gene: Kevin1_49 Start: 32486, Stop: 33493, Start Num: 112
Candidate Starts for Kevin1_49:
(Start: 112 @32486 has 44 MA's), (149, 32597), (151, 32606), (155, 32633), (169, 32684), (171, 32687), (188, 32744), (194, 32753), (222, 32837), (237, 32888), (242, 32912), (245, 32924), (313, 33155), (318, 33173), (324, 33194), (326, 33209), (343, 33263), (344, 33266), (347, 33275), (350, 33293), (365, 33323), (392, 33404),

Gene: Kewpiedoll_48 Start: 41475, Stop: 42602, Start Num: 100
Candidate Starts for Kewpiedoll_48:
(Start: 100 @41475 has 60 MA's), (126, 41514), (149, 41607), (156, 41655), (169, 41706), (181, 41739), (203, 41814), (208, 41835), (247, 41958), (256, 41991), (261, 42012), (280, 42087), (313, 42225), (345, 42339), (350, 42366), (367, 42426), (386, 42492), (392, 42507), (401, 42525),

Gene: Kinbote_54 Start: 38780, Stop: 39871, Start Num: 59
Candidate Starts for Kinbote_54:
(12, 38507), (17, 38537), (24, 38630), (37, 38714), (Start: 59 @38780 has 10 MA's), (62, 38789), (Start: 84 @38858 has 1 MA's), (Start: 117 @38900 has 14 MA's), (151, 39011), (155, 39038), (158, 39050), (177, 39107), (190, 39158), (224, 39269), (237, 39317), (260, 39398), (277, 39464), (283, 39482), (285, 39485), (297, 39527), (325, 39641), (344, 39710), (348, 39722), (360, 39755), (370, 39794),

Gene: King2_32 Start: 28450, Stop: 29478, Start Num: 115
Candidate Starts for King2_32:
(Start: 115 @28450 has 26 MA's), (163, 28633), (169, 28651), (179, 28681), (185, 28696), (242, 28879), (245, 28891), (291, 29041), (299, 29053), (341, 29218), (351, 29260), (365, 29296),

Gene: KingstonB_81 Start: 52248, Stop: 53261, Start Num: 102
Candidate Starts for KingstonB_81:
(53, 52086), (96, 52239), (Start: 102 @52248 has 16 MA's), (159, 52434), (169, 52473), (177, 52491), (203, 52584), (230, 52653), (247, 52734), (258, 52773), (272, 52833), (287, 52869), (289, 52875), (302, 52908), (316, 52974), (332, 53031), (400, 53238),

Gene: Klevey_37 Start: 28353, Stop: 29405, Start Num: 102
Candidate Starts for Klevey_37:
(Start: 102 @28353 has 16 MA's), (169, 28563), (177, 28581), (203, 28671), (271, 28908), (272, 28911),

Gene: Kroos_48 Start: 41345, Stop: 42472, Start Num: 100
Candidate Starts for Kroos_48:
(74, 41276), (Start: 100 @41345 has 60 MA's), (126, 41384), (149, 41477), (155, 41519), (156, 41525), (169, 41576), (183, 41615), (208, 41705), (256, 41861), (261, 41882), (270, 41915), (280, 41957),

(313, 42095), (345, 42209), (350, 42236), (367, 42296), (386, 42362), (401, 42395),

Gene: Kwekel_45 Start: 37890, Stop: 39044, Start Num: 100
Candidate Starts for Kwekel_45:
(Start: 100 @37890 has 60 MA's), (149, 38019), (155, 38061), (156, 38067), (169, 38118), (208, 38247), (212, 38253), (237, 38331), (247, 38373), (256, 38406), (261, 38427), (312, 38646), (324, 38691), (330, 38715), (337, 38739), (350, 38790), (367, 38859), (369, 38871), (381, 38910), (383, 38919), (386, 38925), (392, 38940), (398, 38949), (405, 39006),

Gene: Kwobi_49 Start: 41331, Stop: 42458, Start Num: 100
Candidate Starts for Kwobi_49:
(74, 41262), (Start: 100 @41331 has 60 MA's), (126, 41370), (149, 41463), (155, 41505), (156, 41511), (169, 41562), (183, 41601), (208, 41691), (256, 41847), (261, 41868), (270, 41901), (280, 41943), (313, 42081), (345, 42195), (360, 42261), (363, 42270), (367, 42282), (386, 42348), (392, 42363), (401, 42381),

Gene: LeeroyJ_34 Start: 28804, Stop: 29823, Start Num: 115
Candidate Starts for LeeroyJ_34:
(Start: 115 @28804 has 26 MA's), (150, 28921), (169, 29005), (173, 29017), (179, 29035), (191, 29071), (245, 29245), (247, 29251), (262, 29308), (272, 29347), (287, 29383), (291, 29395), (299, 29407), (365, 29650), (403, 29770),

Gene: Lennon_48 Start: 42278, Stop: 43441, Start Num: 100
Candidate Starts for Lennon_48:
(Start: 100 @42278 has 60 MA's), (126, 42317), (149, 42410), (155, 42452), (156, 42458), (169, 42509), (181, 42542), (203, 42617), (208, 42638), (247, 42761), (256, 42794), (261, 42815), (280, 42890), (313, 43028), (345, 43142), (353, 43190), (355, 43205), (367, 43265), (386, 43331), (392, 43346), (401, 43364),

Gene: Leonard_47 Start: 40587, Stop: 41741, Start Num: 97
Candidate Starts for Leonard_47:
(Start: 97 @40587 has 16 MA's), (108, 40602), (139, 40671), (149, 40728), (151, 40737), (155, 40770), (156, 40776), (169, 40824), (183, 40863), (193, 40893), (199, 40911), (200, 40914), (202, 40923), (235, 41031), (245, 41076), (247, 41082), (256, 41115), (261, 41136), (277, 41199), (303, 41313), (312, 41355), (313, 41361), (350, 41499), (392, 41643), (405, 41709),

Gene: LilHam_45 Start: 39953, Stop: 41077, Start Num: 100
Candidate Starts for LilHam_45:
(74, 39884), (Start: 100 @39953 has 60 MA's), (126, 39989), (149, 40082), (155, 40124), (156, 40130), (169, 40181), (183, 40220), (208, 40310), (256, 40466), (261, 40487), (270, 40520), (280, 40562), (313, 40700), (345, 40814), (350, 40841), (367, 40901), (386, 40967), (401, 41000),

Gene: LilHazelnut_55 Start: 38900, Stop: 39871, Start Num: 117
Candidate Starts for LilHazelnut_55:
(12, 38507), (17, 38537), (24, 38630), (37, 38714), (Start: 59 @38780 has 10 MA's), (62, 38789), (Start: 84 @38858 has 1 MA's), (Start: 117 @38900 has 14 MA's), (151, 39011), (155, 39038), (158, 39050), (177, 39107), (190, 39158), (224, 39269), (237, 39317), (260, 39398), (277, 39464), (283, 39482), (285, 39485), (297, 39527), (325, 39641), (344, 39710), (348, 39722), (360, 39755), (370, 39794),

Gene: Lilbeanie_51 Start: 37513, Stop: 38625, Start Num: 88
Candidate Starts for Lilbeanie_51:

(Start: 88 @37513 has 1 MA's), (106, 37537), (151, 37675), (160, 37723), (169, 37753), (177, 37771), (198, 37837), (199, 37840), (203, 37864), (241, 37981), (247, 38005), (254, 38029), (284, 38137), (303, 38179), (365, 38395), (386, 38467), (400, 38497), (405, 38548),

Gene: Lilmac1015_39 Start: 28926, Stop: 29978, Start Num: 102
Candidate Starts for Lilmac1015_39:
(Start: 102 @28926 has 16 MA's), (169, 29136), (177, 29154), (203, 29244), (271, 29481), (272, 29484),

Gene: Linus_46 Start: 36603, Stop: 37556, Start Num: 119
Candidate Starts for Linus_46:
(Start: 119 @36603 has 20 MA's), (150, 36714), (155, 36747), (158, 36759), (186, 36852), (192, 36870), (197, 36882), (200, 36888), (209, 36933), (216, 36954), (220, 36966), (240, 37026), (251, 37062), (264, 37101), (268, 37113), (285, 37170), (295, 37203), (305, 37245), (319, 37311), (321, 37317), (338, 37383), (348, 37416), (368, 37467), (391, 37539),

Gene: Love_52 Start: 42726, Stop: 43853, Start Num: 100
Candidate Starts for Love_52:
(Start: 100 @42726 has 60 MA's), (126, 42765), (149, 42858), (155, 42900), (156, 42906), (169, 42957), (181, 42990), (203, 43065), (208, 43086), (247, 43209), (256, 43242), (261, 43263), (280, 43338), (313, 43476), (345, 43590), (350, 43617), (367, 43677), (386, 43743), (392, 43758), (401, 43776),

Gene: Lozinak_88 Start: 54455, Stop: 55495, Start Num: 99
Candidate Starts for Lozinak_88:
(Start: 97 @54452 has 16 MA's), (Start: 99 @54455 has 8 MA's), (150, 54602), (155, 54635), (166, 54686), (195, 54785), (202, 54806), (206, 54830), (247, 54959), (251, 54971), (295, 55097), (309, 55160), (319, 55199), (337, 55268), (341, 55280), (352, 55328), (368, 55361), (389, 55430), (402, 55478),

Gene: Luke_54 Start: 38735, Stop: 39826, Start Num: 59
Candidate Starts for Luke_54:
(12, 38462), (17, 38492), (24, 38585), (37, 38669), (Start: 59 @38735 has 10 MA's), (62, 38744), (Start: 84 @38813 has 1 MA's), (Start: 117 @38855 has 14 MA's), (151, 38966), (155, 38993), (158, 39005), (177, 39062), (190, 39113), (224, 39224), (237, 39272), (260, 39353), (277, 39419), (283, 39437), (285, 39440), (297, 39482), (325, 39596), (344, 39665), (348, 39677), (360, 39710), (370, 39749),

Gene: Lukepolites_36 Start: 28340, Stop: 29587, Start Num: 99
Candidate Starts for Lukepolites_36:
(Start: 99 @28340 has 8 MA's), (132, 28394), (203, 28667), (239, 28769), (247, 28805), (255, 28832), (261, 28862), (287, 28937), (321, 29060), (398, 29315), (407, 29510),

Gene: Luna22_52 Start: 38764, Stop: 39855, Start Num: 59
Candidate Starts for Luna22_52:
(12, 38491), (17, 38521), (24, 38614), (37, 38698), (Start: 59 @38764 has 10 MA's), (62, 38773), (Start: 84 @38842 has 1 MA's), (Start: 117 @38884 has 14 MA's), (151, 38995), (155, 39022), (158, 39034), (177, 39091), (190, 39142), (224, 39253), (237, 39301), (260, 39382), (277, 39448), (283, 39466), (285, 39469), (297, 39511), (325, 39625), (344, 39694), (348, 39706), (360, 39739), (370, 39778),

Gene: Lymara_46 Start: 36430, Stop: 37383, Start Num: 119
Candidate Starts for Lymara_46:

(116, 36424), (Start: 119 @36430 has 20 MA's), (142, 36505), (144, 36514), (150, 36541), (155, 36574), (158, 36586), (186, 36679), (197, 36709), (200, 36715), (209, 36760), (216, 36781), (236, 36835), (240, 36853), (242, 36859), (251, 36889), (264, 36928), (268, 36940), (285, 36997), (295, 37030), (305, 37072), (312, 37111), (319, 37138), (338, 37210), (348, 37243), (368, 37294), (391, 37366),

Gene: Lysidious_59 Start: 39422, Stop: 40312, Start Num: 136
Candidate Starts for Lysidious_59:
(11, 38894), (45, 39173), (73, 39272), (Start: 112 @39371 has 44 MA's), (Start: 119 @39383 has 20 MA's), (Start: 136 @39422 has 8 MA's), (142, 39458), (158, 39539), (197, 39662), (247, 39827), (251, 39839), (267, 39878), (268, 39881), (269, 39884), (347, 40175), (348, 40178), (388, 40289), (393, 40298),

Gene: Magsby_47 Start: 32459, Stop: 33469, Start Num: 112
Candidate Starts for Magsby_47:
(Start: 112 @32459 has 44 MA's), (141, 32534), (149, 32573), (151, 32582), (155, 32609), (169, 32660), (171, 32663), (178, 32687), (222, 32813), (237, 32864), (242, 32888), (245, 32900), (254, 32930), (312, 33122), (313, 33131), (318, 33149), (328, 33191), (343, 33239), (347, 33251), (392, 33380),

Gene: Makar_85 Start: 52565, Stop: 53590, Start Num: 96
Candidate Starts for Makar_85:
(14, 52163), (36, 52355), (53, 52412), (71, 52481), (96, 52565), (Start: 102 @52574 has 16 MA's), (159, 52763), (169, 52802), (177, 52820), (203, 52913), (246, 53060), (272, 53162), (287, 53198), (311, 53282), (332, 53360), (333, 53369), (347, 53411), (400, 53567),

Gene: Malachai_56 Start: 39249, Stop: 40178, Start Num: 130
Candidate Starts for Malachai_56:
(55, 39057), (67, 39099), (73, 39123), (91, 39195), (Start: 130 @39249 has 11 MA's), (Start: 136 @39264 has 8 MA's), (143, 39306), (144, 39309), (155, 39369), (158, 39381), (224, 39606), (240, 39657), (247, 39681), (268, 39735), (288, 39801), (294, 39822), (306, 39873), (312, 39900), (320, 39930), (348, 40032),

Gene: Martha_34 Start: 28721, Stop: 29740, Start Num: 115
Candidate Starts for Martha_34:
(Start: 115 @28721 has 26 MA's), (169, 28922), (173, 28934), (179, 28952), (188, 28982), (191, 28988), (245, 29162), (247, 29168), (262, 29225), (287, 29300), (299, 29324), (301, 29333), (319, 29411), (339, 29483), (341, 29489), (401, 29666),

Gene: Mask_63 Start: 49866, Stop: 50870, Start Num: 112
Candidate Starts for Mask_63:
(Start: 112 @49866 has 44 MA's), (151, 49989), (155, 50016), (169, 50067), (171, 50070), (178, 50094), (222, 50220), (237, 50271), (242, 50295), (245, 50307), (247, 50313), (254, 50337), (257, 50349), (312, 50529), (313, 50538), (321, 50559), (324, 50571), (342, 50634), (344, 50643), (365, 50700), (384, 50766), (392, 50781),

Gene: McCrothy_48 Start: 41885, Stop: 43006, Start Num: 100
Candidate Starts for McCrothy_48:
(80, 41846), (Start: 100 @41885 has 60 MA's), (126, 41921), (149, 42014), (155, 42056), (156, 42062), (169, 42113), (181, 42146), (203, 42221), (208, 42242), (247, 42365), (256, 42398), (261, 42419), (280, 42494), (313, 42632), (345, 42746), (350, 42773), (367, 42833), (386, 42899), (392, 42914), (401, 42932),

Gene: McKinley_50 Start: 42099, Stop: 43259, Start Num: 100
Candidate Starts for McKinley_50:
(Start: 100 @42099 has 60 MA's), (126, 42138), (149, 42231), (155, 42273), (156, 42279), (169, 42330), (181, 42363), (203, 42438), (208, 42459), (247, 42582), (256, 42615), (261, 42636), (280, 42711), (313, 42849), (345, 42963), (355, 43026), (367, 43086), (386, 43152), (392, 43167), (401, 43185),

Gene: MelBins_48 Start: 40737, Stop: 41921, Start Num: 97
Candidate Starts for MelBins_48:
(Start: 97 @40737 has 16 MA's), (139, 40821), (151, 40887), (155, 40920), (156, 40926), (169, 40974), (183, 41013), (193, 41043), (199, 41061), (200, 41064), (202, 41073), (245, 41223), (247, 41229), (256, 41262), (261, 41283), (277, 41346), (303, 41460), (312, 41502), (350, 41646), (353, 41667), (355, 41682), (392, 41823), (405, 41889),

Gene: Melba_56 Start: 37292, Stop: 38221, Start Num: 131
Candidate Starts for Melba_56:
(Start: 131 @37292 has 37 MA's), (Start: 136 @37307 has 8 MA's), (144, 37352), (151, 37385), (155, 37412), (158, 37424), (224, 37649), (247, 37724), (268, 37778), (288, 37844), (294, 37865), (306, 37916), (312, 37943), (320, 37973), (348, 38075),

Gene: Mellie_56 Start: 37432, Stop: 38322, Start Num: 136
Candidate Starts for Mellie_56:
(6, 36670), (45, 37183), (73, 37282), (Start: 112 @37381 has 44 MA's), (Start: 119 @37393 has 20 MA's), (Start: 136 @37432 has 8 MA's), (142, 37468), (158, 37549), (197, 37672), (247, 37837), (251, 37849), (267, 37888), (321, 38089), (344, 38176), (347, 38185), (348, 38188), (377, 38266), (388, 38299), (393, 38308),

Gene: Melville_50 Start: 32443, Stop: 33453, Start Num: 112
Candidate Starts for Melville_50:
(Start: 112 @32443 has 44 MA's), (141, 32518), (149, 32557), (151, 32566), (155, 32593), (169, 32644), (171, 32647), (178, 32671), (222, 32797), (237, 32848), (242, 32872), (245, 32884), (254, 32914), (312, 33106), (313, 33115), (318, 33133), (328, 33175), (343, 33223), (347, 33235), (392, 33364),

Gene: MicyPS_78 Start: 50576, Stop: 49539, Start Num: 129
Candidate Starts for MicyPS_78:
(Start: 129 @50576 has 2 MA's), (158, 50414), (168, 50369), (273, 50000), (275, 49991), (366, 49652), (375, 49622),

Gene: MintFen_58 Start: 37863, Stop: 38792, Start Num: 131
Candidate Starts for MintFen_58:
(4, 37089), (37, 37614), (67, 37713), (96, 37812), (104, 37824), (Start: 131 @37863 has 37 MA's), (Start: 136 @37878 has 8 MA's), (144, 37923), (155, 37983), (158, 37995), (224, 38220), (240, 38271), (247, 38295), (268, 38349), (288, 38415), (294, 38436), (306, 38487), (312, 38514), (320, 38544), (348, 38646),

Gene: Miskis_80 Start: 52360, Stop: 53400, Start Num: 99
Candidate Starts for Miskis_80:
(Start: 97 @52357 has 16 MA's), (Start: 99 @52360 has 8 MA's), (150, 52507), (155, 52540), (166, 52591), (195, 52690), (202, 52711), (206, 52735), (247, 52864), (251, 52876), (295, 53002), (309, 53065), (319, 53104), (337, 53173), (341, 53185), (352, 53233), (368, 53266), (389, 53335), (402, 53383),

Gene: MissRona_59 Start: 39737, Stop: 40666, Start Num: 131
Candidate Starts for MissRona_59:
(Start: 131 @39737 has 37 MA's), (Start: 136 @39752 has 8 MA's), (144, 39797), (155, 39857), (158, 39869), (197, 40004), (224, 40094), (240, 40145), (247, 40169), (249, 40172), (268, 40223), (288, 40289), (294, 40310), (306, 40361), (309, 40379), (348, 40520), (364, 40565), (376, 40604), (390, 40643),

Gene: ModicumRichard_39 Start: 32352, Stop: 33365, Start Num: 111
Candidate Starts for ModicumRichard_39:
(Start: 111 @32352 has 5 MA's), (139, 32415), (148, 32472), (150, 32478), (158, 32523), (179, 32595), (214, 32715), (222, 32742), (251, 32835), (256, 32841), (260, 32856), (266, 32865), (268, 32871), (319, 33069), (321, 33075), (329, 33111), (351, 33195), (380, 33267), (401, 33321),

Gene: Mollymur_95 Start: 64969, Stop: 63935, Start Num: 109
Candidate Starts for Mollymur_95:
(107, 64975), (Start: 109 @64969 has 6 MA's), (149, 64843), (162, 64768), (165, 64753), (166, 64750), (188, 64663), (196, 64645), (205, 64603), (247, 64465), (255, 64444), (266, 64423), (268, 64417), (295, 64327), (306, 64282), (309, 64264), (316, 64237), (324, 64207), (328, 64183), (341, 64144), (344, 64132),

Gene: MoontowerMania_48 Start: 41934, Stop: 43061, Start Num: 100
Candidate Starts for MoontowerMania_48:
(Start: 100 @41934 has 60 MA's), (126, 41973), (149, 42066), (155, 42108), (156, 42114), (169, 42165), (181, 42198), (203, 42273), (208, 42294), (247, 42417), (256, 42450), (261, 42471), (280, 42546), (313, 42684), (345, 42798), (350, 42825), (367, 42885), (386, 42951), (392, 42966), (401, 42984),

Gene: Mordred_46 Start: 36470, Stop: 37423, Start Num: 119
Candidate Starts for Mordred_46:
(Start: 119 @36470 has 20 MA's), (150, 36581), (155, 36614), (158, 36626), (186, 36719), (192, 36737), (197, 36749), (200, 36755), (209, 36800), (216, 36821), (220, 36833), (240, 36893), (242, 36899), (251, 36929), (264, 36968), (268, 36980), (285, 37037), (295, 37070), (319, 37178), (338, 37250), (348, 37283), (368, 37334), (388, 37397), (391, 37406),

Gene: Morgana_39 Start: 32303, Stop: 33316, Start Num: 111
Candidate Starts for Morgana_39:
(13, 31865), (18, 31892), (19, 31895), (20, 31931), (42, 32096), (57, 32144), (98, 32285), (Start: 111 @32303 has 5 MA's), (148, 32423), (150, 32429), (158, 32474), (214, 32666), (251, 32786), (256, 32792), (260, 32807), (268, 32822), (319, 33020), (321, 33026), (329, 33062), (345, 33116), (351, 33146), (380, 33218), (397, 33260), (401, 33272),

Gene: MoyaNatalis_46 Start: 36463, Stop: 37416, Start Num: 119
Candidate Starts for MoyaNatalis_46:
(Start: 119 @36463 has 20 MA's), (150, 36574), (155, 36607), (158, 36619), (186, 36712), (192, 36730), (197, 36742), (200, 36748), (209, 36793), (216, 36814), (220, 36826), (240, 36886), (242, 36892), (251, 36922), (264, 36961), (268, 36973), (285, 37030), (295, 37063), (305, 37105), (319, 37171), (321, 37177), (338, 37243), (348, 37276), (368, 37327), (391, 37399),

Gene: Murp_58 Start: 40682, Stop: 41611, Start Num: 131
Candidate Starts for Murp_58:
(82, 40601), (Start: 131 @40682 has 37 MA's), (Start: 136 @40697 has 8 MA's), (143, 40739), (144, 40742), (151, 40775), (155, 40802), (158, 40814), (224, 41039), (240, 41090), (268, 41168), (288, 41234), (294, 41255), (306, 41306), (312, 41333), (320, 41363), (348, 41465),

Gene: Nandito_37 Start: 28626, Stop: 29672, Start Num: 102
Candidate Starts for Nandito_37:
(Start: 102 @28626 has 16 MA's), (169, 28836), (177, 28854), (203, 28944), (313, 29313),

Gene: NathanVaag_32 Start: 28464, Stop: 29492, Start Num: 115
Candidate Starts for NathanVaag_32:
(Start: 115 @28464 has 26 MA's), (150, 28581), (163, 28647), (169, 28665), (179, 28695), (188, 28725), (245, 28905), (262, 28968), (299, 29067), (341, 29232), (365, 29310),

Gene: Natkenzie_50 Start: 42409, Stop: 43563, Start Num: 105
Candidate Starts for Natkenzie_50:
(Start: 105 @42409 has 15 MA's), (126, 42448), (149, 42541), (151, 42550), (155, 42583), (156, 42589), (164, 42625), (169, 42640), (181, 42673), (183, 42679), (208, 42772), (256, 42928), (259, 42943), (277, 43012), (280, 43024), (284, 43042), (324, 43213), (345, 43288), (363, 43372), (383, 43444), (386, 43450), (405, 43531),

Gene: Nenae_51 Start: 33350, Stop: 34360, Start Num: 112
Candidate Starts for Nenae_51:
(Start: 112 @33350 has 44 MA's), (149, 33464), (151, 33473), (155, 33500), (169, 33551), (171, 33554), (194, 33620), (202, 33647), (237, 33755), (241, 33773), (245, 33791), (318, 34040), (343, 34130), (347, 34142), (365, 34190), (392, 34271),

Gene: Nordenberg_43 Start: 40917, Stop: 42038, Start Num: 100
Candidate Starts for Nordenberg_43:
(80, 40878), (Start: 100 @40917 has 60 MA's), (126, 40953), (149, 41046), (155, 41088), (156, 41094), (169, 41145), (181, 41178), (203, 41253), (208, 41274), (247, 41397), (256, 41430), (261, 41451), (280, 41526), (313, 41664), (345, 41778), (350, 41805), (367, 41865), (386, 41931), (392, 41946), (401, 41964),

Gene: Norvs_88 Start: 53861, Stop: 54904, Start Num: 97
Candidate Starts for Norvs_88:
(Start: 97 @53861 has 16 MA's), (Start: 99 @53864 has 8 MA's), (150, 54011), (155, 54044), (166, 54095), (195, 54194), (202, 54215), (206, 54239), (247, 54368), (251, 54380), (295, 54506), (309, 54569), (319, 54608), (337, 54677), (341, 54689), (352, 54737), (368, 54770), (389, 54839), (402, 54887),

Gene: Nostromo_33 Start: 27783, Stop: 28817, Start Num: 115
Candidate Starts for Nostromo_33:
(43, 27585), (Start: 115 @27783 has 26 MA's), (150, 27900), (155, 27933), (163, 27966), (169, 27984), (179, 28014), (187, 28038), (203, 28092), (245, 28224), (287, 28362), (299, 28386), (301, 28395), (340, 28545), (388, 28689), (393, 28704), (405, 28770),

Gene: NovoPizza_55 Start: 39554, Stop: 40510, Start Num: 125
Candidate Starts for NovoPizza_55:
(41, 39314), (62, 39386), (65, 39398), (Start: 84 @39482 has 1 MA's), (Start: 125 @39554 has 1 MA's), (155, 39686), (158, 39698), (177, 39755), (190, 39806), (213, 39884), (221, 39908), (224, 39917), (247, 40004), (263, 40061), (267, 40073), (275, 40103), (283, 40130), (300, 40187), (317, 40262), (348, 40373), (370, 40445),

Gene: Nymphadora_59 Start: 41290, Stop: 42219, Start Num: 131
Candidate Starts for Nymphadora_59:

(44, 41056), (46, 41062), (52, 41080), (67, 41134), (73, 41158), (92, 41230), (96, 41233), (Start: 97 @41236 has 16 MA's), (Start: 131 @41290 has 37 MA's), (Start: 136 @41305 has 8 MA's), (143, 41347), (144, 41350), (155, 41410), (158, 41422), (224, 41647), (240, 41698), (247, 41722), (268, 41776), (273, 41794), (288, 41842), (294, 41863), (306, 41914), (309, 41932), (312, 41941), (348, 42073),

Gene: OBUpride_55 Start: 38914, Stop: 39885, Start Num: 117
Candidate Starts for OBUpride_55:
(12, 38521), (16, 38542), (17, 38551), (24, 38644), (37, 38728), (Start: 59 @38794 has 10 MA's), (62, 38803), (Start: 84 @38872 has 1 MA's), (Start: 117 @38914 has 14 MA's), (151, 39025), (155, 39052), (158, 39064), (177, 39121), (190, 39172), (224, 39283), (237, 39331), (260, 39412), (268, 39442), (277, 39478), (283, 39496), (285, 39499), (297, 39541), (319, 39631), (324, 39649), (325, 39655), (344, 39724), (348, 39736), (360, 39769), (370, 39808),

Gene: ObLaDi_39 Start: 32337, Stop: 33350, Start Num: 111
Candidate Starts for ObLaDi_39:
(78, 32259), (93, 32310), (Start: 111 @32337 has 5 MA's), (127, 32364), (148, 32457), (150, 32463), (158, 32508), (214, 32700), (251, 32820), (256, 32826), (260, 32841), (266, 32850), (268, 32856), (321, 33060), (329, 33096), (351, 33180), (380, 33252), (397, 33294), (401, 33306),

Gene: Obliviate_54 Start: 35860, Stop: 36789, Start Num: 130
Candidate Starts for Obliviate_54:
(Start: 130 @35860 has 11 MA's), (Start: 136 @35875 has 8 MA's), (143, 35917), (144, 35920), (155, 35980), (158, 35992), (224, 36217), (240, 36268), (247, 36292), (268, 36346), (288, 36412), (294, 36433), (306, 36484), (312, 36511), (320, 36541), (348, 36643),

Gene: OneUp_78 Start: 51739, Stop: 52776, Start Num: 101
Candidate Starts for OneUp_78:
(Start: 101 @51739 has 2 MA's), (166, 51964), (247, 52234), (251, 52246), (289, 52351), (295, 52372), (314, 52456), (368, 52636), (379, 52672), (385, 52696), (402, 52753),

Gene: PCoral7_58 Start: 39007, Stop: 39936, Start Num: 131
Candidate Starts for PCoral7_58:
(52, 38803), (63, 38848), (70, 38872), (91, 38953), (Start: 131 @39007 has 37 MA's), (Start: 136 @39022 has 8 MA's), (143, 39064), (144, 39067), (150, 39094), (155, 39127), (158, 39139), (224, 39364), (240, 39415), (247, 39439), (268, 39493), (288, 39559), (294, 39580), (306, 39631), (309, 39649), (348, 39790), (372, 39868),

Gene: PFR1_35 Start: 26634, Stop: 27539, Start Num: 138
Candidate Starts for PFR1_35:
(Start: 109 @26565 has 6 MA's), (Start: 125 @26595 has 1 MA's), (138, 26634), (149, 26697), (150, 26700), (160, 26757), (240, 27015), (255, 27060), (268, 27087), (279, 27129), (292, 27168), (308, 27243), (312, 27255), (324, 27300), (326, 27315), (331, 27330), (338, 27354), (348, 27387),

Gene: PFR2_37 Start: 28203, Stop: 29108, Start Num: 138
Candidate Starts for PFR2_37:
(Start: 109 @28134 has 6 MA's), (Start: 125 @28164 has 1 MA's), (138, 28203), (149, 28266), (150, 28269), (160, 28326), (240, 28584), (255, 28629), (268, 28656), (279, 28698), (292, 28737), (308, 28812), (312, 28824), (324, 28869), (326, 28884), (331, 28899), (338, 28923), (348, 28956),

Gene: PSonyx_99 Start: 55351, Stop: 54314, Start Num: 129
Candidate Starts for PSonyx_99:

(Start: 129 @55351 has 2 MA's), (158, 55189), (168, 55144), (182, 55105), (247, 54847), (275, 54766), (366, 54427),

Gene: Panchino_44 Start: 32985, Stop: 33995, Start Num: 112
Candidate Starts for Panchino_44:
(Start: 112 @32985 has 44 MA's), (141, 33060), (149, 33099), (151, 33108), (155, 33135), (169, 33186), (171, 33189), (194, 33255), (202, 33282), (237, 33390), (241, 33408), (245, 33426), (318, 33675), (343, 33765), (347, 33777), (365, 33825), (392, 33906),

Gene: Paries_51 Start: 42388, Stop: 43509, Start Num: 100
Candidate Starts for Paries_51:
(80, 42349), (Start: 100 @42388 has 60 MA's), (126, 42424), (149, 42517), (155, 42559), (156, 42565), (169, 42616), (181, 42649), (203, 42724), (208, 42745), (247, 42868), (256, 42901), (261, 42922), (280, 42997), (313, 43135), (345, 43249), (350, 43276), (367, 43336), (386, 43402), (392, 43417), (401, 43435),

Gene: Parmesanjohn_47 Start: 32462, Stop: 33472, Start Num: 112
Candidate Starts for Parmesanjohn_47:
(Start: 112 @32462 has 44 MA's), (141, 32537), (149, 32576), (151, 32585), (155, 32612), (169, 32663), (171, 32666), (178, 32690), (222, 32816), (237, 32867), (242, 32891), (245, 32903), (254, 32933), (312, 33125), (313, 33134), (318, 33152), (328, 33194), (343, 33242), (347, 33254), (392, 33383),

Gene: Petra_55 Start: 36512, Stop: 37441, Start Num: 130
Candidate Starts for Petra_55:
(Start: 130 @36512 has 11 MA's), (Start: 136 @36527 has 8 MA's), (143, 36569), (144, 36572), (151, 36605), (155, 36632), (158, 36644), (224, 36869), (247, 36944), (268, 36998), (288, 37064), (294, 37085), (306, 37136), (312, 37163), (320, 37193), (348, 37295),

Gene: PhancyPhin_51 Start: 33344, Stop: 34354, Start Num: 112
Candidate Starts for PhancyPhin_51:
(Start: 112 @33344 has 44 MA's), (149, 33458), (151, 33467), (155, 33494), (169, 33545), (171, 33548), (194, 33614), (202, 33641), (237, 33749), (241, 33767), (245, 33785), (318, 34034), (343, 34124), (347, 34136), (365, 34184), (392, 34265),

Gene: Phauci_40 Start: 37439, Stop: 38590, Start Num: 97
Candidate Starts for Phauci_40:
(Start: 97 @37439 has 16 MA's), (139, 37523), (151, 37589), (155, 37622), (156, 37628), (169, 37676), (183, 37715), (193, 37745), (196, 37754), (199, 37763), (200, 37766), (202, 37775), (245, 37925), (247, 37931), (256, 37964), (261, 37985), (277, 38048), (303, 38162), (312, 38204), (392, 38492), (405, 38558),

Gene: Phinally_47 Start: 40584, Stop: 41738, Start Num: 97
Candidate Starts for Phinally_47:
(Start: 97 @40584 has 16 MA's), (108, 40599), (139, 40668), (149, 40725), (151, 40734), (155, 40767), (156, 40773), (169, 40821), (183, 40860), (193, 40890), (199, 40908), (200, 40911), (202, 40920), (235, 41028), (245, 41073), (247, 41079), (256, 41112), (261, 41133), (277, 41196), (303, 41310), (312, 41352), (313, 41358), (350, 41496), (392, 41640), (405, 41706),

Gene: PhinkBoden_87 Start: 54243, Stop: 55286, Start Num: 97
Candidate Starts for PhinkBoden_87:
(Start: 97 @54243 has 16 MA's), (Start: 99 @54246 has 8 MA's), (150, 54393), (155, 54426), (166, 54477), (195, 54576), (202, 54597), (206, 54621), (247, 54750), (251, 54762), (266, 54792), (295,

54888), (297, 54897), (309, 54951), (319, 54990), (337, 55059), (352, 55119), (368, 55152), (371, 55170), (402, 55269),

Gene: Phloss_45 Start: 31869, Stop: 32879, Start Num: 112
Candidate Starts for Phloss_45:
(Start: 112 @31869 has 44 MA's), (141, 31944), (149, 31983), (151, 31992), (155, 32019), (169, 32070), (171, 32073), (178, 32097), (222, 32223), (237, 32274), (242, 32298), (245, 32310), (254, 32340), (312, 32532), (313, 32541), (318, 32559), (328, 32601), (343, 32649), (347, 32661), (392, 32790),

Gene: Phrann_48 Start: 33627, Stop: 34637, Start Num: 112
Candidate Starts for Phrann_48:
(Start: 112 @33627 has 44 MA's), (149, 33741), (151, 33750), (155, 33777), (169, 33828), (171, 33831), (194, 33897), (202, 33924), (237, 34032), (241, 34050), (245, 34068), (318, 34317), (343, 34407), (347, 34419), (365, 34467), (392, 34548),

Gene: PhrostedPhlake_59 Start: 37294, Stop: 38223, Start Num: 130
Candidate Starts for PhrostedPhlake_59:
(Start: 130 @37294 has 11 MA's), (Start: 136 @37309 has 8 MA's), (144, 37354), (151, 37387), (155, 37414), (158, 37426), (197, 37561), (224, 37651), (240, 37702), (247, 37726), (249, 37729), (268, 37780), (288, 37846), (294, 37867), (306, 37918), (309, 37936), (348, 38077), (364, 38122), (390, 38200),

Gene: Piccoletto_32 Start: 28465, Stop: 29493, Start Num: 115
Candidate Starts for Piccoletto_32:
(Start: 115 @28465 has 26 MA's), (150, 28582), (163, 28648), (169, 28666), (179, 28696), (188, 28726), (245, 28906), (262, 28969), (299, 29068), (341, 29233), (365, 29311),

Gene: Pipp_60 Start: 38559, Stop: 39488, Start Num: 131
Candidate Starts for Pipp_60:
(96, 38508), (104, 38520), (Start: 131 @38559 has 37 MA's), (Start: 136 @38574 has 8 MA's), (144, 38619), (155, 38679), (158, 38691), (197, 38826), (224, 38916), (240, 38967), (247, 38991), (268, 39045), (283, 39099), (288, 39111), (294, 39132), (306, 39183), (312, 39210), (320, 39240), (348, 39342),

Gene: Pippa_34 Start: 28845, Stop: 29864, Start Num: 115
Candidate Starts for Pippa_34:
(Start: 115 @28845 has 26 MA's), (169, 29046), (173, 29058), (179, 29076), (191, 29112), (237, 29250), (245, 29286), (262, 29349), (287, 29424), (299, 29448), (301, 29457), (401, 29790), (403, 29811), (405, 29838),

Gene: Pipsqueaks_47 Start: 32439, Stop: 33449, Start Num: 112
Candidate Starts for Pipsqueaks_47:
(Start: 112 @32439 has 44 MA's), (141, 32514), (149, 32553), (151, 32562), (155, 32589), (169, 32640), (171, 32643), (178, 32667), (222, 32793), (237, 32844), (242, 32868), (245, 32880), (254, 32910), (312, 33102), (313, 33111), (318, 33129), (328, 33171), (343, 33219), (347, 33231), (392, 33360),

Gene: Prairie_36 Start: 28272, Stop: 29321, Start Num: 102
Candidate Starts for Prairie_36:
(Start: 102 @28272 has 16 MA's), (169, 28482), (177, 28500), (203, 28590), (271, 28827), (272, 28830),

Gene: PrincePatrick_57 Start: 37356, Stop: 38285, Start Num: 131
Candidate Starts for PrincePatrick_57:
(52, 37152), (63, 37197), (70, 37221), (91, 37302), (Start: 131 @37356 has 37 MA's), (Start: 136 @37371 has 8 MA's), (143, 37413), (144, 37416), (150, 37443), (155, 37476), (158, 37488), (190, 37608), (224, 37713), (247, 37788), (268, 37842), (288, 37908), (294, 37929), (298, 37944), (306, 37980), (309, 37998), (312, 38007), (323, 38049), (337, 38103), (344, 38127), (348, 38139),

Gene: PrincessTrina_46 Start: 36606, Stop: 37559, Start Num: 119
Candidate Starts for PrincessTrina_46:
(Start: 119 @36606 has 20 MA's), (150, 36717), (155, 36750), (158, 36762), (186, 36855), (192, 36873), (197, 36885), (200, 36891), (209, 36936), (216, 36957), (220, 36969), (240, 37029), (251, 37065), (264, 37104), (268, 37116), (285, 37173), (295, 37206), (305, 37248), (319, 37314), (321, 37320), (338, 37386), (348, 37419), (368, 37470), (391, 37542),

Gene: Pumpkiney_51 Start: 39724, Stop: 40899, Start Num: 105
Candidate Starts for Pumpkiney_51:
(Start: 105 @39724 has 15 MA's), (110, 39736), (126, 39763), (149, 39856), (151, 39865), (155, 39898), (156, 39904), (164, 39940), (169, 39955), (181, 39988), (183, 39994), (208, 40087), (210, 40096), (247, 40231), (256, 40264), (259, 40279), (261, 40285), (277, 40348), (284, 40378), (324, 40549), (345, 40624), (363, 40708), (383, 40780), (386, 40786), (392, 40801), (405, 40867),

Gene: Purgamenstris_51 Start: 33348, Stop: 34358, Start Num: 112
Candidate Starts for Purgamenstris_51:
(Start: 112 @33348 has 44 MA's), (149, 33462), (151, 33471), (155, 33498), (169, 33549), (171, 33552), (194, 33618), (202, 33645), (237, 33753), (241, 33771), (245, 33789), (318, 34038), (343, 34128), (347, 34140), (365, 34188), (392, 34269),

Gene: Purplicious_82 Start: 52080, Stop: 53093, Start Num: 102
Candidate Starts for Purplicious_82:
(53, 51918), (71, 51987), (96, 52071), (Start: 102 @52080 has 16 MA's), (159, 52266), (169, 52305), (177, 52323), (203, 52416), (230, 52485), (247, 52566), (258, 52605), (272, 52665), (287, 52701), (289, 52707), (302, 52740), (316, 52806), (332, 52863), (400, 53070),

Gene: REQ3_09 Start: 3808, Stop: 4743, Start Num: 128
Candidate Starts for REQ3_09:
(128, 3808), (147, 3889), (168, 3982), (233, 4180), (245, 4219), (248, 4228), (251, 4237), (254, 4243), (275, 4312), (286, 4345), (287, 4348), (296, 4381), (319, 4480),

Gene: Raymond7_45 Start: 33136, Stop: 34146, Start Num: 112
Candidate Starts for Raymond7_45:
(Start: 112 @33136 has 44 MA's), (149, 33250), (151, 33259), (155, 33286), (169, 33337), (171, 33340), (194, 33406), (202, 33433), (237, 33541), (241, 33559), (245, 33577), (318, 33826), (343, 33916), (347, 33928), (365, 33976), (392, 34057),

Gene: Rebel_43 Start: 29478, Stop: 30488, Start Num: 112
Candidate Starts for Rebel_43:
(Start: 112 @29478 has 44 MA's), (149, 29592), (151, 29601), (155, 29628), (169, 29679), (171, 29682), (194, 29748), (202, 29775), (237, 29883), (241, 29901), (245, 29919), (318, 30168), (343, 30258), (347, 30270), (365, 30318), (392, 30399),

Gene: Redi_51 Start: 33347, Stop: 34357, Start Num: 112
Candidate Starts for Redi_51:

(Start: 112 @33347 has 44 MA's), (149, 33461), (151, 33470), (155, 33497), (169, 33548), (171, 33551), (194, 33617), (202, 33644), (237, 33752), (241, 33770), (245, 33788), (318, 34037), (343, 34127), (347, 34139), (365, 34187), (392, 34268),

Gene: Rem711_53 Start: 36671, Stop: 37591, Start Num: 122
Candidate Starts for Rem711_53:
(Start: 122 @36671 has 1 MA's), (Start: 131 @36689 has 37 MA's), (142, 36740), (143, 36746), (158, 36821), (206, 36986), (222, 37034), (225, 37046), (250, 37136), (252, 37139), (274, 37217), (344, 37475), (348, 37487), (361, 37523),

Gene: Ribeye_48 Start: 41766, Stop: 42890, Start Num: 100
Candidate Starts for Ribeye_48:
(74, 41697), (Start: 100 @41766 has 60 MA's), (126, 41802), (149, 41895), (155, 41937), (156, 41943), (169, 41994), (183, 42033), (208, 42123), (256, 42279), (261, 42300), (270, 42333), (280, 42375), (313, 42513), (345, 42627), (350, 42654), (367, 42714), (386, 42780), (401, 42813),

Gene: RiverRaider_49 Start: 40177, Stop: 41307, Start Num: 100
Candidate Starts for RiverRaider_49:
(Start: 100 @40177 has 60 MA's), (149, 40315), (151, 40324), (155, 40357), (156, 40363), (169, 40414), (181, 40447), (183, 40453), (196, 40489), (208, 40543), (247, 40666), (256, 40699), (261, 40720), (280, 40795), (313, 40933), (326, 40987), (345, 41047), (363, 41122), (368, 41137), (383, 41194), (386, 41200), (401, 41233),

Gene: RoadKill_43 Start: 37465, Stop: 38649, Start Num: 100
Candidate Starts for RoadKill_43:
(54, 37324), (Start: 100 @37465 has 60 MA's), (149, 37594), (155, 37636), (156, 37642), (169, 37693), (208, 37822), (247, 37948), (256, 37981), (261, 38002), (312, 38221), (324, 38266), (330, 38290), (337, 38314), (350, 38365), (354, 38392), (367, 38464), (369, 38476), (381, 38515), (383, 38524), (386, 38530), (392, 38545), (398, 38554), (405, 38611),

Gene: Rofo_48 Start: 41463, Stop: 42809, Start Num: 32
Candidate Starts for Rofo_48:
(5, 40968), (23, 41394), (Start: 32 @41463 has 1 MA's), (49, 41526), (60, 41565), (68, 41592), (126, 41721), (149, 41814), (155, 41856), (156, 41862), (169, 41913), (181, 41946), (203, 42021), (208, 42042), (247, 42165), (256, 42198), (261, 42219), (280, 42294), (313, 42432), (345, 42546), (350, 42573), (367, 42633), (386, 42699), (392, 42714), (401, 42732),

Gene: RosiePosie_46 Start: 36473, Stop: 37426, Start Num: 119
Candidate Starts for RosiePosie_46:
(Start: 119 @36473 has 20 MA's), (150, 36584), (155, 36617), (158, 36629), (186, 36722), (192, 36740), (197, 36752), (200, 36758), (209, 36803), (216, 36824), (220, 36836), (240, 36896), (242, 36902), (251, 36932), (264, 36971), (268, 36983), (285, 37040), (295, 37073), (319, 37181), (338, 37253), (348, 37286), (368, 37337), (388, 37400), (391, 37409),

Gene: Rubeelu_50 Start: 33050, Stop: 34057, Start Num: 112
Candidate Starts for Rubeelu_50:
(34, 32807), (38, 32819), (56, 32885), (69, 32930), (Start: 112 @33050 has 44 MA's), (149, 33161), (151, 33170), (155, 33197), (169, 33248), (171, 33251), (188, 33308), (194, 33317), (222, 33401), (237, 33452), (242, 33476), (245, 33488), (313, 33719), (318, 33737), (324, 33758), (326, 33773), (343, 33827), (344, 33830), (347, 33839), (350, 33857), (365, 33887), (392, 33968),

Gene: Samba_57 Start: 40085, Stop: 41014, Start Num: 131
Candidate Starts for Samba_57:

(96, 40034), (104, 40046), (Start: 131 @40085 has 37 MA's), (Start: 136 @40100 has 8 MA's), (143, 40142), (144, 40145), (155, 40205), (158, 40217), (224, 40442), (240, 40493), (247, 40517), (268, 40571), (288, 40637), (294, 40658), (306, 40709), (312, 40736), (320, 40766), (348, 40868),

Gene: Sampson_50 Start: 42354, Stop: 43508, Start Num: 105
Candidate Starts for Sampson_50:
(Start: 105 @42354 has 15 MA's), (126, 42393), (149, 42486), (151, 42495), (155, 42528), (156, 42534), (164, 42570), (169, 42585), (181, 42618), (183, 42624), (208, 42717), (256, 42873), (259, 42888), (277, 42957), (280, 42969), (284, 42987), (324, 43158), (345, 43233), (363, 43317), (383, 43389), (386, 43395), (405, 43476),

Gene: Sanjuju_47 Start: 42328, Stop: 43452, Start Num: 100
Candidate Starts for Sanjuju_47:
(Start: 100 @42328 has 60 MA's), (126, 42364), (149, 42457), (155, 42499), (156, 42505), (169, 42556), (181, 42589), (203, 42664), (208, 42685), (237, 42766), (247, 42808), (256, 42841), (261, 42862), (280, 42937), (313, 43075), (345, 43189), (367, 43276), (386, 43342), (392, 43357), (401, 43375),

Gene: Saronaya_47 Start: 40605, Stop: 41738, Start Num: 100
Candidate Starts for Saronaya_47:
(74, 40536), (Start: 100 @40605 has 60 MA's), (149, 40743), (155, 40785), (156, 40791), (169, 40842), (181, 40875), (183, 40881), (184, 40884), (208, 40971), (256, 41127), (261, 41148), (280, 41223), (313, 41361), (345, 41475), (350, 41502), (367, 41562), (386, 41628), (392, 41643), (401, 41661),

Gene: Scavito_46 Start: 36471, Stop: 37424, Start Num: 119
Candidate Starts for Scavito_46:
(Start: 119 @36471 has 20 MA's), (150, 36582), (155, 36615), (158, 36627), (186, 36720), (192, 36738), (197, 36750), (200, 36756), (209, 36801), (216, 36822), (220, 36834), (240, 36894), (242, 36900), (251, 36930), (264, 36969), (268, 36981), (285, 37038), (295, 37071), (319, 37179), (338, 37251), (348, 37284), (368, 37335), (388, 37398), (391, 37407),

Gene: Schnauzer_48 Start: 32462, Stop: 33472, Start Num: 112
Candidate Starts for Schnauzer_48:
(Start: 112 @32462 has 44 MA's), (141, 32537), (149, 32576), (151, 32585), (155, 32612), (169, 32663), (171, 32666), (178, 32690), (222, 32816), (237, 32867), (242, 32891), (245, 32903), (254, 32933), (312, 33125), (313, 33134), (318, 33152), (328, 33194), (343, 33242), (347, 33254), (392, 33383),

Gene: SchottB_46 Start: 41605, Stop: 42732, Start Num: 100
Candidate Starts for SchottB_46:
(74, 41536), (Start: 100 @41605 has 60 MA's), (126, 41644), (149, 41737), (155, 41779), (156, 41785), (169, 41836), (183, 41875), (208, 41965), (256, 42121), (261, 42142), (270, 42175), (280, 42217), (313, 42355), (345, 42469), (350, 42496), (367, 42556), (386, 42622), (401, 42655),

Gene: Scioto_51 Start: 42410, Stop: 43564, Start Num: 105
Candidate Starts for Scioto_51:
(Start: 105 @42410 has 15 MA's), (126, 42449), (149, 42542), (151, 42551), (155, 42584), (156, 42590), (164, 42626), (169, 42641), (181, 42674), (183, 42680), (208, 42773), (256, 42929), (259, 42944), (277, 43013), (280, 43025), (284, 43043), (324, 43214), (345, 43289), (363, 43373), (383, 43445), (386, 43451), (405, 43532),

Gene: Scitech_44 Start: 30478, Stop: 31488, Start Num: 112
Candidate Starts for Scitech_44:

(Start: 112 @30478 has 44 MA's), (141, 30553), (149, 30592), (151, 30601), (155, 30628), (169, 30679), (171, 30682), (178, 30706), (222, 30832), (237, 30883), (242, 30907), (245, 30919), (254, 30949), (312, 31141), (313, 31150), (318, 31168), (328, 31210), (343, 31258), (347, 31270), (392, 31399),

Gene: Sedona_48 Start: 41923, Stop: 43047, Start Num: 100
Candidate Starts for Sedona_48:
(80, 41884), (Start: 100 @41923 has 60 MA's), (126, 41959), (149, 42052), (155, 42094), (156, 42100), (169, 42151), (181, 42184), (203, 42259), (208, 42280), (247, 42403), (256, 42436), (261, 42457), (280, 42532), (313, 42670), (345, 42784), (367, 42871), (386, 42937), (392, 42952), (401, 42970),

Gene: Shade_34 Start: 28686, Stop: 29714, Start Num: 115
Candidate Starts for Shade_34:
(Start: 115 @28686 has 26 MA's), (132, 28722), (169, 28887), (179, 28917), (185, 28932), (198, 28968), (242, 29115), (245, 29127), (256, 29166), (287, 29265), (299, 29289), (301, 29298), (305, 29313), (341, 29454), (351, 29496),

Gene: Shivanishola_48 Start: 40593, Stop: 41753, Start Num: 100
Candidate Starts for Shivanishola_48:
(80, 40554), (Start: 100 @40593 has 60 MA's), (126, 40629), (149, 40722), (155, 40764), (156, 40770), (169, 40821), (181, 40854), (203, 40929), (208, 40950), (247, 41073), (256, 41106), (261, 41127), (280, 41202), (313, 41340), (345, 41454), (353, 41502), (355, 41517), (367, 41577), (386, 41643), (392, 41658), (401, 41676),

Gene: ShrimpFriedEgg_51 Start: 33347, Stop: 34357, Start Num: 112
Candidate Starts for ShrimpFriedEgg_51:
(Start: 112 @33347 has 44 MA's), (149, 33461), (151, 33470), (155, 33497), (169, 33548), (171, 33551), (194, 33617), (202, 33644), (237, 33752), (241, 33770), (245, 33788), (318, 34037), (343, 34127), (347, 34139), (365, 34187), (392, 34268),

Gene: Shweta_45 Start: 31406, Stop: 32416, Start Num: 112
Candidate Starts for Shweta_45:
(Start: 112 @31406 has 44 MA's), (149, 31520), (151, 31529), (155, 31556), (169, 31607), (171, 31610), (178, 31634), (184, 31649), (212, 31742), (222, 31760), (237, 31811), (242, 31835), (245, 31847), (247, 31853), (254, 31877), (257, 31889), (318, 32096), (343, 32186), (347, 32198), (365, 32246), (392, 32327),

Gene: Sicarius2_35 Start: 28313, Stop: 29347, Start Num: 105
Candidate Starts for Sicarius2_35:
(Start: 105 @28313 has 15 MA's), (118, 28322), (132, 28352), (169, 28520), (179, 28550), (185, 28565), (226, 28685), (242, 28748), (245, 28760), (254, 28790), (287, 28898), (299, 28922), (305, 28946), (339, 29081), (341, 29087), (361, 29153), (365, 29165),

Gene: Silvafighter_48 Start: 32435, Stop: 33445, Start Num: 112
Candidate Starts for Silvafighter_48:
(Start: 112 @32435 has 44 MA's), (141, 32510), (149, 32549), (151, 32558), (155, 32585), (169, 32636), (171, 32639), (178, 32663), (222, 32789), (237, 32840), (242, 32864), (245, 32876), (254, 32906), (312, 33098), (313, 33107), (318, 33125), (328, 33167), (343, 33215), (347, 33227), (392, 33356),

Gene: Sitar_48 Start: 42278, Stop: 43441, Start Num: 100
Candidate Starts for Sitar_48:

(Start: 100 @42278 has 60 MA's), (126, 42317), (149, 42410), (155, 42452), (156, 42458), (169, 42509), (181, 42542), (203, 42617), (208, 42638), (247, 42761), (256, 42794), (261, 42815), (280, 42890), (313, 43028), (345, 43142), (353, 43190), (355, 43205), (367, 43265), (386, 43331), (392, 43346), (401, 43364),

Gene: Smoothie_89 Start: 54452, Stop: 55495, Start Num: 97
Candidate Starts for Smoothie_89:
(Start: 97 @54452 has 16 MA's), (Start: 99 @54455 has 8 MA's), (150, 54602), (155, 54635), (166, 54686), (195, 54785), (202, 54806), (206, 54830), (247, 54959), (251, 54971), (295, 55097), (309, 55160), (319, 55199), (337, 55268), (341, 55280), (352, 55328), (368, 55361), (389, 55430), (402, 55478),

Gene: Smurph_47 Start: 32462, Stop: 33472, Start Num: 112
Candidate Starts for Smurph_47:
(Start: 112 @32462 has 44 MA's), (141, 32537), (149, 32576), (151, 32585), (155, 32612), (169, 32663), (171, 32666), (178, 32690), (222, 32816), (237, 32867), (242, 32891), (245, 32903), (254, 32933), (312, 33125), (313, 33134), (318, 33152), (328, 33194), (343, 33242), (347, 33254), (392, 33383),

Gene: Snekmaggedon_45 Start: 31639, Stop: 32649, Start Num: 112
Candidate Starts for Snekmaggedon_45:
(Start: 112 @31639 has 44 MA's), (141, 31714), (149, 31753), (151, 31762), (155, 31789), (169, 31840), (171, 31843), (194, 31909), (202, 31936), (237, 32044), (241, 32062), (245, 32080), (318, 32329), (343, 32419), (347, 32431), (365, 32479), (392, 32560),

Gene: Soilmate_62 Start: 42430, Stop: 43359, Start Num: 131
Candidate Starts for Soilmate_62:
(65, 42268), (77, 42316), (82, 42349), (Start: 131 @42430 has 37 MA's), (Start: 136 @42445 has 8 MA's), (143, 42487), (144, 42490), (151, 42523), (155, 42550), (158, 42562), (224, 42787), (240, 42838), (247, 42862), (268, 42916), (273, 42934), (288, 42982), (294, 43003), (306, 43054), (312, 43081), (348, 43213),

Gene: Sonny_34 Start: 28716, Stop: 29744, Start Num: 115
Candidate Starts for Sonny_34:
(Start: 115 @28716 has 26 MA's), (132, 28752), (169, 28917), (179, 28947), (185, 28962), (242, 29145), (245, 29157), (256, 29196), (287, 29295), (299, 29319), (301, 29328), (305, 29343), (327, 29442), (341, 29484),

Gene: Soos_78 Start: 52041, Stop: 53054, Start Num: 102
Candidate Starts for Soos_78:
(53, 51879), (71, 51948), (96, 52032), (Start: 102 @52041 has 16 MA's), (159, 52227), (169, 52266), (177, 52284), (203, 52377), (230, 52446), (247, 52527), (258, 52566), (272, 52626), (287, 52662), (289, 52668), (302, 52701), (316, 52767), (332, 52824), (400, 53031),

Gene: SpeedDemon_960 Start: 66064, Stop: 65045, Start Num: 109
Candidate Starts for SpeedDemon_960:
(Start: 109 @66064 has 6 MA's), (133, 66022), (150, 65935), (166, 65851), (196, 65746), (205, 65704), (211, 65683), (228, 65629), (248, 65563), (254, 65548), (255, 65545), (256, 65539), (268, 65518), (275, 65491), (287, 65455), (295, 65428), (306, 65383), (314, 65344), (326, 65293), (328, 65284), (341, 65245), (344, 65233), (364, 65167),

Gene: Spinach_51 Start: 33347, Stop: 34357, Start Num: 112
Candidate Starts for Spinach_51:

(Start: 112 @33347 has 44 MA's), (149, 33461), (151, 33470), (155, 33497), (169, 33548), (171, 33551), (194, 33617), (202, 33644), (237, 33752), (241, 33770), (245, 33788), (318, 34037), (343, 34127), (347, 34139), (365, 34187), (392, 34268),

Gene: SpongeBob_45 Start: 31639, Stop: 32649, Start Num: 112
Candidate Starts for SpongeBob_45:
(Start: 112 @31639 has 44 MA's), (141, 31714), (149, 31753), (151, 31762), (155, 31789), (169, 31840), (171, 31843), (194, 31909), (202, 31936), (237, 32044), (241, 32062), (245, 32080), (318, 32329), (343, 32419), (347, 32431), (365, 32479), (392, 32560),

Gene: StevieBAY_34 Start: 28804, Stop: 29823, Start Num: 115
Candidate Starts for StevieBAY_34:
(Start: 115 @28804 has 26 MA's), (150, 28921), (169, 29005), (173, 29017), (179, 29035), (191, 29071), (245, 29245), (247, 29251), (262, 29308), (272, 29347), (287, 29383), (291, 29395), (299, 29407), (365, 29650),

Gene: Stichling_45 Start: 40125, Stop: 41252, Start Num: 100
Candidate Starts for Stichling_45:
(74, 40056), (Start: 100 @40125 has 60 MA's), (126, 40164), (149, 40257), (155, 40299), (156, 40305), (169, 40356), (183, 40395), (208, 40485), (256, 40641), (261, 40662), (270, 40695), (280, 40737), (313, 40875), (345, 40989), (350, 41016), (367, 41076), (386, 41142), (401, 41175),

Gene: Stillion_82 Start: 52962, Stop: 53975, Start Num: 102
Candidate Starts for Stillion_82:
(53, 52800), (96, 52953), (Start: 102 @52962 has 16 MA's), (159, 53148), (169, 53187), (177, 53205), (203, 53298), (230, 53367), (247, 53448), (258, 53487), (272, 53547), (287, 53583), (289, 53589), (302, 53622), (316, 53688), (332, 53745), (400, 53952),

Gene: Sting_81 Start: 52480, Stop: 53493, Start Num: 102
Candidate Starts for Sting_81:
(53, 52318), (71, 52387), (96, 52471), (Start: 102 @52480 has 16 MA's), (159, 52666), (169, 52705), (177, 52723), (203, 52816), (230, 52885), (247, 52966), (258, 53005), (272, 53065), (287, 53101), (289, 53107), (302, 53140), (316, 53206), (332, 53263), (400, 53470),

Gene: StorminNorm_47 Start: 40696, Stop: 41823, Start Num: 100
Candidate Starts for StorminNorm_47:
(74, 40627), (Start: 100 @40696 has 60 MA's), (126, 40735), (149, 40828), (155, 40870), (156, 40876), (169, 40927), (183, 40966), (208, 41056), (256, 41212), (261, 41233), (270, 41266), (280, 41308), (313, 41446), (345, 41560), (350, 41587), (367, 41647), (386, 41713), (401, 41746),

Gene: Stuck_59 Start: 41880, Stop: 42890, Start Num: 112
Candidate Starts for Stuck_59:
(Start: 112 @41880 has 44 MA's), (149, 41994), (151, 42003), (155, 42030), (169, 42081), (171, 42084), (178, 42108), (184, 42123), (212, 42216), (222, 42234), (237, 42285), (242, 42309), (245, 42321), (247, 42327), (254, 42351), (257, 42363), (318, 42570), (324, 42591), (343, 42660), (347, 42672), (392, 42801),

Gene: Stultus_47 Start: 41231, Stop: 42394, Start Num: 100
Candidate Starts for Stultus_47:
(Start: 100 @41231 has 60 MA's), (126, 41270), (149, 41363), (155, 41405), (156, 41411), (169, 41462), (181, 41495), (203, 41570), (208, 41591), (247, 41714), (256, 41747), (261, 41768), (280, 41843), (313, 41981), (345, 42095), (353, 42143), (355, 42158), (367, 42218), (386, 42284), (392, 42299), (401, 42317),

Gene: TaeYoung_34 Start: 28721, Stop: 29740, Start Num: 115
Candidate Starts for TaeYoung_34:
(Start: 115 @28721 has 26 MA's), (169, 28922), (173, 28934), (179, 28952), (188, 28982), (191, 28988), (245, 29162), (247, 29168), (262, 29225), (287, 29300), (299, 29324), (301, 29333), (319, 29411), (339, 29483), (341, 29489), (401, 29666),

Gene: Tangent_49 Start: 41305, Stop: 42432, Start Num: 100
Candidate Starts for Tangent_49:
(Start: 100 @41305 has 60 MA's), (126, 41344), (149, 41437), (155, 41479), (156, 41485), (169, 41536), (181, 41569), (203, 41644), (208, 41665), (247, 41788), (256, 41821), (261, 41842), (280, 41917), (313, 42055), (345, 42169), (350, 42196), (367, 42256), (386, 42322), (392, 42337), (401, 42355),

Gene: Tangerine_47 Start: 40477, Stop: 41601, Start Num: 100
Candidate Starts for Tangerine_47:
(74, 40408), (Start: 100 @40477 has 60 MA's), (126, 40513), (149, 40606), (155, 40648), (156, 40654), (169, 40705), (183, 40744), (208, 40834), (237, 40915), (256, 40990), (261, 41011), (280, 41086), (313, 41224), (345, 41338), (350, 41365), (360, 41404), (367, 41425), (386, 41491), (401, 41524),

Gene: Taotie_97 Start: 52561, Stop: 51515, Start Num: 124
Candidate Starts for Taotie_97:
(124, 52561), (158, 52390), (168, 52345), (247, 52048), (275, 51967), (282, 51940), (283, 51937), (366, 51628),

Gene: Tapioca_49 Start: 32428, Stop: 33438, Start Num: 112
Candidate Starts for Tapioca_49:
(Start: 112 @32428 has 44 MA's), (141, 32503), (149, 32542), (151, 32551), (155, 32578), (169, 32629), (171, 32632), (178, 32656), (222, 32782), (237, 32833), (242, 32857), (245, 32869), (254, 32899), (312, 33091), (313, 33100), (318, 33118), (328, 33160), (343, 33208), (347, 33220), (392, 33349),

Gene: Tardus_52 Start: 42085, Stop: 43260, Start Num: 105
Candidate Starts for Tardus_52:
(Start: 105 @42085 has 15 MA's), (126, 42124), (149, 42217), (151, 42226), (155, 42259), (156, 42265), (169, 42316), (181, 42349), (183, 42355), (208, 42448), (210, 42457), (247, 42592), (256, 42625), (259, 42640), (261, 42646), (277, 42709), (284, 42739), (324, 42910), (345, 42985), (363, 43069), (383, 43141), (386, 43147), (405, 43228),

Gene: Tessdabest_48 Start: 32459, Stop: 33469, Start Num: 112
Candidate Starts for Tessdabest_48:
(Start: 112 @32459 has 44 MA's), (141, 32534), (149, 32573), (151, 32582), (155, 32609), (169, 32660), (171, 32663), (178, 32687), (222, 32813), (237, 32864), (242, 32888), (245, 32900), (254, 32930), (312, 33122), (313, 33131), (318, 33149), (328, 33191), (343, 33239), (347, 33251), (392, 33380),

Gene: Thing3_46 Start: 40534, Stop: 41661, Start Num: 100
Candidate Starts for Thing3_46:
(Start: 100 @40534 has 60 MA's), (126, 40573), (149, 40666), (155, 40708), (156, 40714), (169, 40765), (181, 40798), (203, 40873), (208, 40894), (247, 41017), (256, 41050), (261, 41071), (280, 41146), (313, 41284), (345, 41398), (350, 41425), (367, 41485), (386, 41551), (392, 41566), (401, 41584),

Gene: ThulaThula_52 Start: 36104, Stop: 37114, Start Num: 112
Candidate Starts for ThulaThula_52:
(Start: 112 @36104 has 44 MA's), (149, 36218), (151, 36227), (155, 36254), (169, 36305), (171, 36308), (178, 36332), (222, 36458), (237, 36509), (245, 36545), (254, 36575), (313, 36776), (318, 36794), (323, 36812), (343, 36884), (347, 36896), (384, 37010), (392, 37025),

Gene: Tiamoceli_46 Start: 38786, Stop: 39940, Start Num: 100
Candidate Starts for Tiamoceli_46:
(54, 38645), (Start: 100 @38786 has 60 MA's), (149, 38915), (155, 38957), (156, 38963), (169, 39014), (208, 39143), (212, 39149), (237, 39227), (247, 39269), (256, 39302), (261, 39323), (312, 39542), (324, 39587), (330, 39611), (337, 39635), (350, 39686), (367, 39755), (369, 39767), (381, 39806), (383, 39815), (386, 39821), (392, 39836), (398, 39845), (405, 39902),

Gene: TimTam_59 Start: 41290, Stop: 42219, Start Num: 131
Candidate Starts for TimTam_59:
(44, 41056), (46, 41062), (52, 41080), (67, 41134), (73, 41158), (92, 41230), (96, 41233), (Start: 97 @41236 has 16 MA's), (Start: 131 @41290 has 37 MA's), (Start: 136 @41305 has 8 MA's), (143, 41347), (144, 41350), (155, 41410), (158, 41422), (224, 41647), (240, 41698), (247, 41722), (268, 41776), (273, 41794), (288, 41842), (294, 41863), (306, 41914), (309, 41932), (312, 41941), (348, 42073),

Gene: Timinator_34 Start: 28804, Stop: 29823, Start Num: 115
Candidate Starts for Timinator_34:
(Start: 115 @28804 has 26 MA's), (150, 28921), (169, 29005), (173, 29017), (179, 29035), (191, 29071), (245, 29245), (247, 29251), (262, 29308), (272, 29347), (287, 29383), (291, 29395), (299, 29407), (365, 29650), (403, 29770),

Gene: Toast_58 Start: 39007, Stop: 39936, Start Num: 131
Candidate Starts for Toast_58:
(52, 38803), (63, 38848), (70, 38872), (91, 38953), (Start: 131 @39007 has 37 MA's), (Start: 136 @39022 has 8 MA's), (143, 39064), (144, 39067), (150, 39094), (155, 39127), (158, 39139), (224, 39364), (240, 39415), (247, 39439), (268, 39493), (288, 39559), (294, 39580), (306, 39631), (309, 39649), (348, 39790), (372, 39868),

Gene: Toniann_88 Start: 53807, Stop: 54847, Start Num: 99
Candidate Starts for Toniann_88:
(Start: 97 @53804 has 16 MA's), (Start: 99 @53807 has 8 MA's), (150, 53954), (155, 53987), (166, 54038), (195, 54137), (202, 54158), (206, 54182), (247, 54311), (251, 54323), (295, 54449), (309, 54512), (319, 54551), (337, 54620), (341, 54632), (352, 54680), (368, 54713), (389, 54782), (402, 54830),

Gene: Tonitrus_67 Start: 48810, Stop: 49829, Start Num: 87
Candidate Starts for Tonitrus_67:
(Start: 87 @48810 has 2 MA's), (150, 48945), (155, 48984), (169, 49038), (177, 49056), (179, 49068), (203, 49146), (204, 49149), (224, 49194), (237, 49254), (245, 49287), (247, 49293), (257, 49329), (262, 49353), (271, 49389), (274, 49401), (287, 49428), (332, 49596), (350, 49668), (381, 49758),

Gene: Tophat_46 Start: 36472, Stop: 37425, Start Num: 119
Candidate Starts for Tophat_46:
(Start: 119 @36472 has 20 MA's), (150, 36583), (155, 36616), (158, 36628), (186, 36721), (192, 36739), (197, 36751), (200, 36757), (209, 36802), (216, 36823), (220, 36835), (240, 36895), (242, 36901), (251, 36931), (264, 36970), (268, 36982), (285, 37039), (295, 37072), (319, 37180), (338, 37252), (348, 37285), (368, 37336), (388, 37399), (391, 37408),

Gene: Tortoise12_46 Start: 31145, Stop: 32155, Start Num: 112
Candidate Starts for Tortoise12_46:
(Start: 112 @31145 has 44 MA's), (141, 31220), (149, 31259), (151, 31268), (155, 31295), (169, 31346), (171, 31349), (178, 31373), (222, 31499), (237, 31550), (242, 31574), (245, 31586), (254, 31616), (312, 31808), (313, 31817), (318, 31835), (328, 31877), (343, 31925), (347, 31937), (392, 32066),

Gene: Towmatter_84 Start: 59893, Stop: 58868, Start Num: 109
Candidate Starts for Towmatter_84:
(Start: 109 @59893 has 6 MA's), (Start: 119 @59878 has 20 MA's), (133, 59851), (166, 59680), (196, 59578), (205, 59536), (211, 59515), (247, 59398), (254, 59380), (255, 59377), (264, 59362), (266, 59356), (268, 59350), (295, 59260), (309, 59197), (312, 59188), (316, 59170), (328, 59116), (341, 59077),

Gene: TripleJ_54 Start: 32997, Stop: 33923, Start Num: 102
Candidate Starts for TripleJ_54:
(61, 32865), (Start: 102 @32997 has 16 MA's), (113, 33003), (147, 33111), (169, 33207), (172, 33213), (178, 33234), (219, 33354), (243, 33441), (245, 33450), (256, 33489), (263, 33528), (274, 33567), (301, 33627), (324, 33711), (344, 33774), (358, 33819),

Gene: TurkishDelight_59 Start: 49631, Stop: 50719, Start Num: 87
Candidate Starts for TurkishDelight_59:
(Start: 87 @49631 has 2 MA's), (147, 49781), (151, 49799), (155, 49826), (169, 49874), (183, 49913), (203, 49991), (216, 50042), (245, 50150), (247, 50156), (254, 50180), (263, 50222), (269, 50240), (299, 50312), (314, 50384), (345, 50483), (390, 50621),

Gene: Twonlo_43 Start: 37416, Stop: 38570, Start Num: 100
Candidate Starts for Twonlo_43:
(54, 37275), (Start: 100 @37416 has 60 MA's), (149, 37545), (155, 37587), (156, 37593), (169, 37644), (208, 37773), (247, 37899), (256, 37932), (261, 37953), (312, 38172), (324, 38217), (330, 38241), (337, 38265), (350, 38316), (367, 38385), (369, 38397), (381, 38436), (383, 38445), (386, 38451), (392, 38466), (398, 38475), (405, 38532),

Gene: Tycho_47 Start: 40564, Stop: 41691, Start Num: 100
Candidate Starts for Tycho_47:
(74, 40495), (Start: 100 @40564 has 60 MA's), (126, 40603), (149, 40696), (155, 40738), (156, 40744), (169, 40795), (183, 40834), (208, 40924), (256, 41080), (261, 41101), (270, 41134), (280, 41176), (313, 41314), (345, 41428), (350, 41455), (367, 41515), (386, 41581), (401, 41614),

Gene: Typha_65 Start: 45547, Stop: 46461, Start Num: 136
Candidate Starts for Typha_65:
(48, 45319), (66, 45385), (73, 45412), (83, 45466), (Start: 136 @45547 has 8 MA's), (155, 45652), (158, 45664), (160, 45676), (222, 45877), (244, 45949), (251, 45970), (254, 45976), (267, 46009), (268, 46012), (283, 46066), (306, 46147), (309, 46165), (348, 46306), (352, 46330),

Gene: Ubuntu_55 Start: 38858, Stop: 39871, Start Num: 84
Candidate Starts for Ubuntu_55:
(12, 38507), (17, 38537), (24, 38630), (37, 38714), (Start: 59 @38780 has 10 MA's), (62, 38789), (Start: 84 @38858 has 1 MA's), (Start: 117 @38900 has 14 MA's), (151, 39011), (155, 39038), (158, 39050), (177, 39107), (190, 39158), (224, 39269), (237, 39317), (260, 39398), (277, 39464), (283, 39482), (285, 39485), (297, 39527), (325, 39641), (344, 39710), (348, 39722), (360, 39755), (370, 39794),

Gene: UmaThurman_55 Start: 38004, Stop: 38933, Start Num: 130
Candidate Starts for UmaThurman_55:
(27, 37677), (44, 37776), (51, 37794), (55, 37812), (67, 37854), (73, 37878), (86, 37941), (91, 37950), (Start: 130 @38004 has 11 MA's), (Start: 136 @38019 has 8 MA's), (143, 38061), (144, 38064), (151, 38097), (155, 38124), (158, 38136), (224, 38361), (240, 38412), (247, 38436), (268, 38490), (273, 38508), (283, 38544), (288, 38556), (294, 38577), (306, 38628), (312, 38655), (348, 38787),

Gene: Utz_50 Start: 37832, Stop: 38761, Start Num: 131
Candidate Starts for Utz_50:
(Start: 131 @37832 has 37 MA's), (Start: 136 @37847 has 8 MA's), (144, 37892), (151, 37925), (155, 37952), (158, 37964), (224, 38189), (247, 38264), (268, 38318), (273, 38336), (283, 38372), (288, 38384), (294, 38405), (305, 38444), (306, 38456), (312, 38483), (320, 38513), (348, 38615),

Gene: ValentiniPuff_95 Start: 54258, Stop: 55337, Start Num: 120
Candidate Starts for ValentiniPuff_95:
(90, 54216), (Start: 120 @54258 has 1 MA's), (152, 54375), (169, 54453), (191, 54528), (222, 54639), (242, 54729), (245, 54741), (263, 54813), (318, 54993), (333, 55053), (342, 55077), (350, 55116), (352, 55122), (363, 55161), (383, 55233), (398, 55266),

Gene: VanLee_36 Start: 29374, Stop: 30321, Start Num: 114
Candidate Starts for VanLee_36:
(Start: 114 @29374 has 2 MA's), (123, 29389), (140, 29437), (146, 29485), (155, 29530), (158, 29542), (214, 29725), (245, 29827), (251, 29845), (256, 29851), (266, 29875), (268, 29881), (276, 29914), (293, 29962), (319, 30079), (351, 30205), (374, 30253),

Gene: Vasanti_54 Start: 35775, Stop: 36704, Start Num: 131
Candidate Starts for Vasanti_54:
(35, 35514), (40, 35529), (44, 35544), (46, 35550), (52, 35568), (67, 35622), (73, 35646), (89, 35712), (95, 35718), (Start: 131 @35775 has 37 MA's), (Start: 136 @35790 has 8 MA's), (143, 35832), (144, 35835), (151, 35868), (155, 35895), (158, 35907), (224, 36132), (247, 36207), (268, 36261), (283, 36315), (288, 36327), (306, 36399), (309, 36417), (312, 36426), (348, 36558),

Gene: Verity_50 Start: 43180, Stop: 44334, Start Num: 105
Candidate Starts for Verity_50:
(Start: 105 @43180 has 15 MA's), (126, 43219), (149, 43312), (151, 43321), (155, 43354), (156, 43360), (169, 43411), (181, 43444), (183, 43450), (208, 43543), (247, 43666), (256, 43699), (259, 43714), (261, 43720), (277, 43783), (280, 43795), (284, 43813), (324, 43984), (363, 44143), (386, 44221), (405, 44302),

Gene: ViaConlectus_50 Start: 41038, Stop: 42213, Start Num: 105
Candidate Starts for ViaConlectus_50:
(Start: 105 @41038 has 15 MA's), (110, 41050), (126, 41077), (149, 41170), (151, 41179), (155, 41212), (156, 41218), (164, 41254), (169, 41269), (181, 41302), (183, 41308), (208, 41401), (210, 41410), (247, 41545), (256, 41578), (257, 41581), (259, 41593), (261, 41599), (277, 41662), (284, 41692), (324, 41863), (345, 41938), (363, 42022), (383, 42094), (386, 42100), (392, 42115),

Gene: Vivi2_51 Start: 42332, Stop: 43459, Start Num: 100
Candidate Starts for Vivi2_51:
(Start: 100 @42332 has 60 MA's), (126, 42371), (149, 42464), (155, 42506), (156, 42512), (169, 42563), (181, 42596), (203, 42671), (208, 42692), (247, 42815), (256, 42848), (261, 42869), (280, 42944), (313, 43082), (345, 43196), (350, 43223), (367, 43283), (386, 43349), (392, 43364), (401, 43382),

Gene: Walrus_56 Start: 37367, Stop: 38296, Start Num: 131
Candidate Starts for Walrus_56:
(96, 37316), (104, 37328), (Start: 131 @37367 has 37 MA's), (Start: 136 @37382 has 8 MA's), (144, 37427), (155, 37487), (158, 37499), (197, 37634), (224, 37724), (240, 37775), (247, 37799), (268, 37853), (283, 37907), (288, 37919), (294, 37940), (306, 37991), (312, 38018), (320, 38048), (348, 38150),

Gene: Webster2_55 Start: 38900, Stop: 39871, Start Num: 117
Candidate Starts for Webster2_55:
(12, 38507), (17, 38537), (24, 38630), (37, 38714), (Start: 59 @38780 has 10 MA's), (62, 38789), (Start: 84 @38858 has 1 MA's), (Start: 117 @38900 has 14 MA's), (151, 39011), (155, 39038), (158, 39050), (177, 39107), (190, 39158), (224, 39269), (237, 39317), (260, 39398), (277, 39464), (283, 39482), (285, 39485), (297, 39527), (325, 39641), (344, 39710), (348, 39722), (360, 39755), (370, 39794),

Gene: Weirdo19_53 Start: 37220, Stop: 38188, Start Num: 117
Candidate Starts for Weirdo19_53:
(15, 36836), (22, 36932), (26, 36953), (30, 36989), (39, 37019), (47, 37043), (50, 37052), (79, 37148), (Start: 117 @37220 has 14 MA's), (153, 37352), (158, 37391), (197, 37514), (215, 37583), (225, 37616), (247, 37694), (251, 37706), (268, 37748), (269, 37751), (309, 37901), (312, 37910), (340, 38018), (348, 38045), (359, 38075),

Gene: William_60 Start: 39682, Stop: 40611, Start Num: 131
Candidate Starts for William_60:
(91, 39628), (Start: 131 @39682 has 37 MA's), (Start: 136 @39697 has 8 MA's), (143, 39739), (144, 39742), (151, 39775), (155, 39802), (158, 39814), (224, 40039), (247, 40114), (268, 40168), (288, 40234), (294, 40255), (306, 40306), (309, 40324), (320, 40363), (344, 40453), (348, 40465), (372, 40543),

Gene: WilliamBoone_87 Start: 52559, Stop: 53599, Start Num: 99
Candidate Starts for WilliamBoone_87:
(Start: 97 @52556 has 16 MA's), (Start: 99 @52559 has 8 MA's), (124, 52601), (151, 52712), (155, 52739), (166, 52790), (195, 52889), (202, 52910), (206, 52934), (251, 53075), (277, 53147), (288, 53177), (295, 53201), (309, 53264), (319, 53303), (321, 53309), (337, 53372), (341, 53384), (352, 53432), (368, 53465), (371, 53483), (402, 53582),

Gene: Wishmaker_52 Start: 38780, Stop: 39871, Start Num: 59
Candidate Starts for Wishmaker_52:
(12, 38507), (17, 38537), (24, 38630), (37, 38714), (Start: 59 @38780 has 10 MA's), (62, 38789), (Start: 84 @38858 has 1 MA's), (Start: 117 @38900 has 14 MA's), (151, 39011), (155, 39038), (158, 39050), (177, 39107), (190, 39158), (224, 39269), (237, 39317), (260, 39398), (277, 39464), (283, 39482), (285, 39485), (297, 39527), (325, 39641), (344, 39710), (348, 39722), (360, 39755), (370, 39794),

Gene: Wisp_55 Start: 38275, Stop: 39204, Start Num: 130
Candidate Starts for Wisp_55:
(86, 38212), (Start: 130 @38275 has 11 MA's), (Start: 136 @38290 has 8 MA's), (143, 38332), (144, 38335), (151, 38368), (155, 38395), (158, 38407), (224, 38632), (240, 38683), (247, 38707), (268, 38761), (288, 38827), (294, 38848), (306, 38899), (312, 38926), (320, 38956), (348, 39058),

Gene: Wocket_58 Start: 37849, Stop: 38778, Start Num: 131
Candidate Starts for Wocket_58:

(96, 37798), (104, 37810), (Start: 131 @37849 has 37 MA's), (Start: 136 @37864 has 8 MA's), (143, 37906), (144, 37909), (151, 37942), (155, 37969), (158, 37981), (224, 38206), (247, 38281), (268, 38335), (288, 38401), (294, 38422), (312, 38500), (320, 38530), (348, 38632),

Gene: Wyborn_35 Start: 28951, Stop: 29985, Start Num: 105
Candidate Starts for Wyborn_35:
(Start: 105 @28951 has 15 MA's), (118, 28960), (132, 28990), (169, 29158), (179, 29188), (185, 29203), (242, 29386), (245, 29398), (254, 29428), (287, 29536), (299, 29560), (305, 29584), (339, 29719), (341, 29725), (361, 29791), (365, 29803),

Gene: Xerxes_47 Start: 32459, Stop: 33469, Start Num: 112
Candidate Starts for Xerxes_47:
(Start: 112 @32459 has 44 MA's), (141, 32534), (149, 32573), (151, 32582), (155, 32609), (169, 32660), (171, 32663), (178, 32687), (222, 32813), (237, 32864), (242, 32888), (245, 32900), (254, 32930), (312, 33122), (313, 33131), (318, 33149), (328, 33191), (343, 33239), (347, 33251), (392, 33380),

Gene: YorkOnyx_48 Start: 40821, Stop: 41948, Start Num: 100
Candidate Starts for YorkOnyx_48:
(74, 40752), (Start: 100 @40821 has 60 MA's), (126, 40860), (149, 40953), (155, 40995), (156, 41001), (169, 41052), (183, 41091), (208, 41181), (256, 41337), (261, 41358), (270, 41391), (280, 41433), (313, 41571), (325, 41616), (345, 41685), (363, 41760), (367, 41772), (386, 41838), (392, 41853), (401, 41871),

Gene: Yvonnetastic_98 Start: 57678, Stop: 58697, Start Num: 103
Candidate Starts for Yvonnetastic_98:
(Start: 103 @57678 has 3 MA's), (133, 57732), (134, 57735), (148, 57813), (174, 57930), (202, 58023), (205, 58044), (206, 58047), (275, 58248), (277, 58257), (285, 58278), (309, 58374), (317, 58407), (325, 58437), (335, 58479), (341, 58494), (348, 58518), (350, 58536), (368, 58572), (379, 58608),

Gene: Zarbodnamra_57 Start: 37271, Stop: 38200, Start Num: 131
Candidate Starts for Zarbodnamra_57:
(96, 37220), (104, 37232), (Start: 131 @37271 has 37 MA's), (Start: 136 @37286 has 8 MA's), (143, 37328), (144, 37331), (151, 37364), (155, 37391), (158, 37403), (224, 37628), (240, 37679), (247, 37703), (268, 37757), (273, 37775), (283, 37811), (288, 37823), (294, 37844), (306, 37895), (312, 37922), (348, 38054),

Gene: Zartrosa_34 Start: 28629, Stop: 29648, Start Num: 115
Candidate Starts for Zartrosa_34:
(Start: 115 @28629 has 26 MA's), (169, 28830), (173, 28842), (179, 28860), (188, 28890), (245, 29070), (247, 29076), (262, 29133), (287, 29208), (299, 29232), (319, 29319), (339, 29391), (341, 29397), (401, 29574),

Gene: ZiggyZoo_58 Start: 39325, Stop: 40254, Start Num: 130
Candidate Starts for ZiggyZoo_58:
(55, 39133), (67, 39175), (73, 39199), (91, 39271), (Start: 130 @39325 has 11 MA's), (Start: 136 @39340 has 8 MA's), (143, 39382), (144, 39385), (155, 39445), (158, 39457), (224, 39682), (240, 39733), (247, 39757), (268, 39811), (283, 39865), (288, 39877), (294, 39898), (306, 39949), (312, 39976), (348, 40108),

Gene: Zilla_56 Start: 37027, Stop: 37956, Start Num: 131
Candidate Starts for Zilla_56:

(96, 36976), (104, 36988), (Start: 131 @37027 has 37 MA's), (Start: 136 @37042 has 8 MA's), (143, 37084), (144, 37087), (155, 37147), (158, 37159), (224, 37384), (240, 37435), (247, 37459), (268, 37513), (273, 37531), (288, 37579), (294, 37600), (306, 37651), (312, 37678), (320, 37708), (348, 37810),

Gene: Zipp_51 Start: 43095, Stop: 44249, Start Num: 105
Candidate Starts for Zipp_51:
(Start: 105 @43095 has 15 MA's), (126, 43134), (149, 43227), (151, 43236), (155, 43269), (156, 43275), (169, 43326), (181, 43359), (183, 43365), (208, 43458), (247, 43581), (256, 43614), (259, 43629), (261, 43635), (277, 43698), (280, 43710), (284, 43728), (324, 43899), (363, 44058), (386, 44136), (405, 44217),

Gene: Zitch_53 Start: 41194, Stop: 42369, Start Num: 105
Candidate Starts for Zitch_53:
(Start: 105 @41194 has 15 MA's), (110, 41206), (126, 41233), (149, 41326), (151, 41335), (155, 41368), (156, 41374), (169, 41425), (181, 41458), (183, 41464), (208, 41557), (210, 41566), (247, 41701), (256, 41734), (259, 41749), (261, 41755), (277, 41818), (284, 41848), (324, 42019), (345, 42094), (363, 42178), (383, 42250), (386, 42256), (405, 42337),

Gene: phiAsp2_49 Start: 37965, Stop: 39083, Start Num: 154
Candidate Starts for phiAsp2_49:
(154, 37965), (169, 38061), (188, 38139), (209, 38214), (216, 38241), (218, 38250), (222, 38277), (223, 38280), (226, 38292), (238, 38346), (242, 38367), (255, 38412), (256, 38418), (308, 38643), (309, 38646), (323, 38700), (331, 38733), (338, 38757), (372, 38928), (383, 38964), (396, 38994), (404, 39033), (406, 39069),