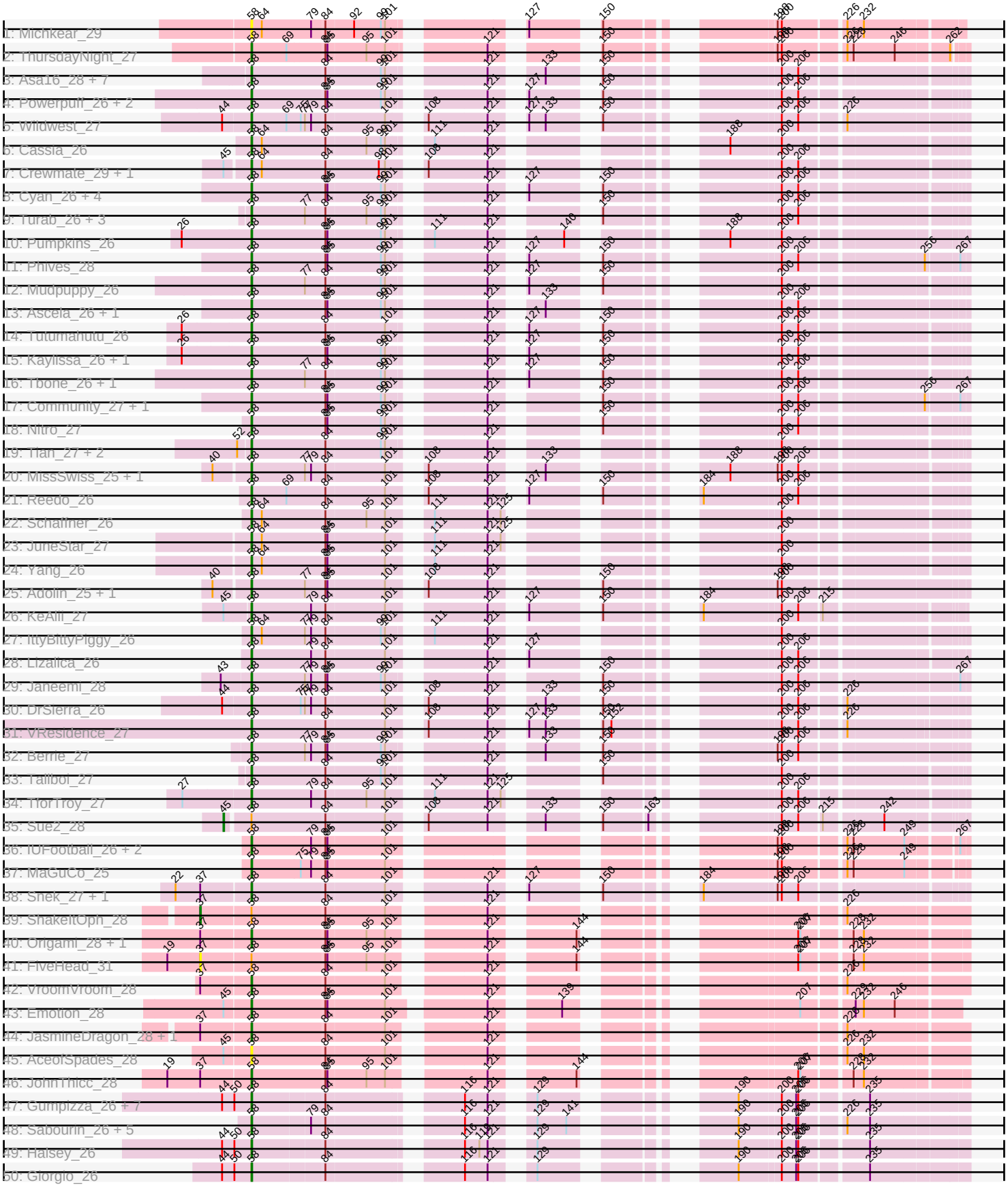
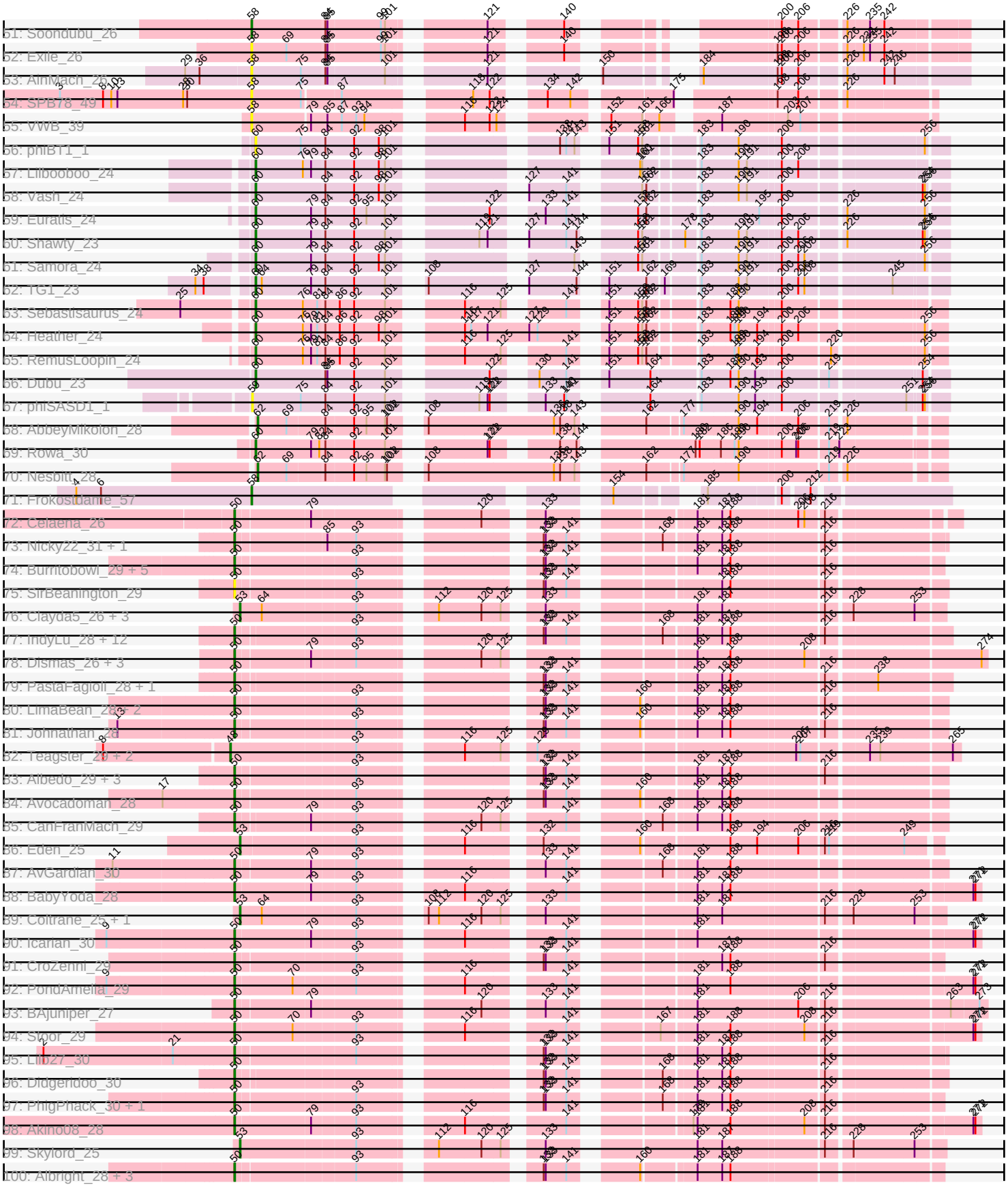
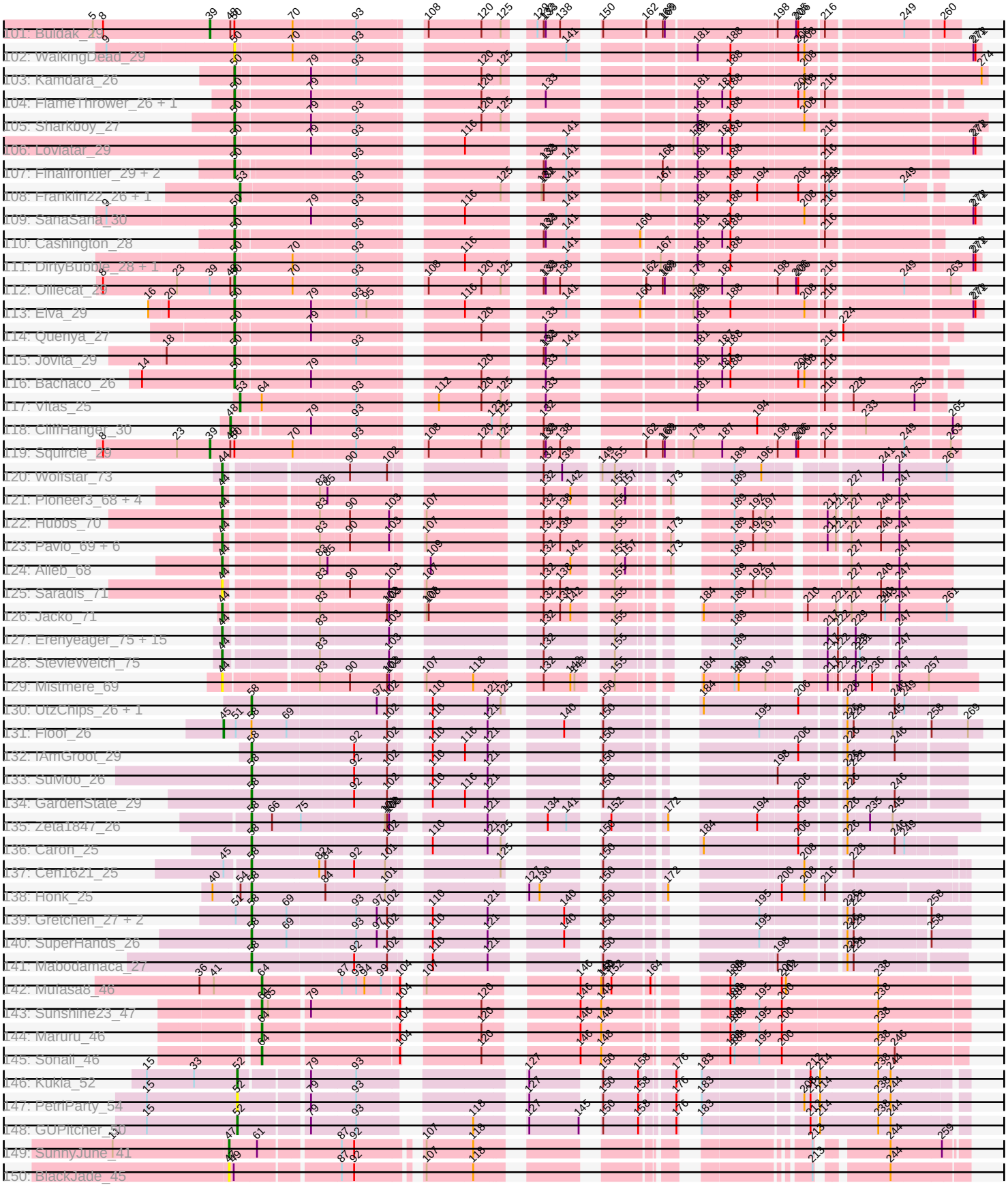
# Pham 347182


1: Michkear_29
2: ThursdayNight_27
3: Asa16_28 + 7
4: Powerpuff_26 + 2
5: Wildwest_27
6: Cassia_26
7: Crewmate_29 + 1
8: Cyan_26 + 4
9: Turab_26 + 3
10: Pumpkins_26
11: Phives_28
12: Mudpuppy_26
13: Ascela_26 + 1
14: Tutumanutu_26
15: Kayliisa_26 + 1
16: Tbone_26 + 1
17: Community_27 + 1
18: Nitro_27
19: Han_27 + 2
20: MissSwiss_25 + 1
21: Reedo_26
22: Schaffner_26
23: JuneStar_27
24: Yang_26
25: Adolin_25 + 1
26: KeAlli_27
27: IttyBittyPiggy_26
28: Lizalica_26
29: Janeemi_28
30: DrSierra_26
31: VResidence_27
32: Bernie_27
33: Tallbol_27
34: ThorTroy_27
35: Sue2_28
36: IUFootball_26 + 2
37: MaGuCo_25
38: Snek_27 + 1
39: SnakeItOph_28
40: Origami_28 + 1
41: FiveHead_31
42: VroomVroom_28
43: Emotion_28
44: JasmineDragon_28 + 1
45: AceofSpades_28
46: JohnThicc_28
47: Gumpizza_26 + 7
48: Sabourin_26 + 5
49: Halsey_26
50: Giorgio_26

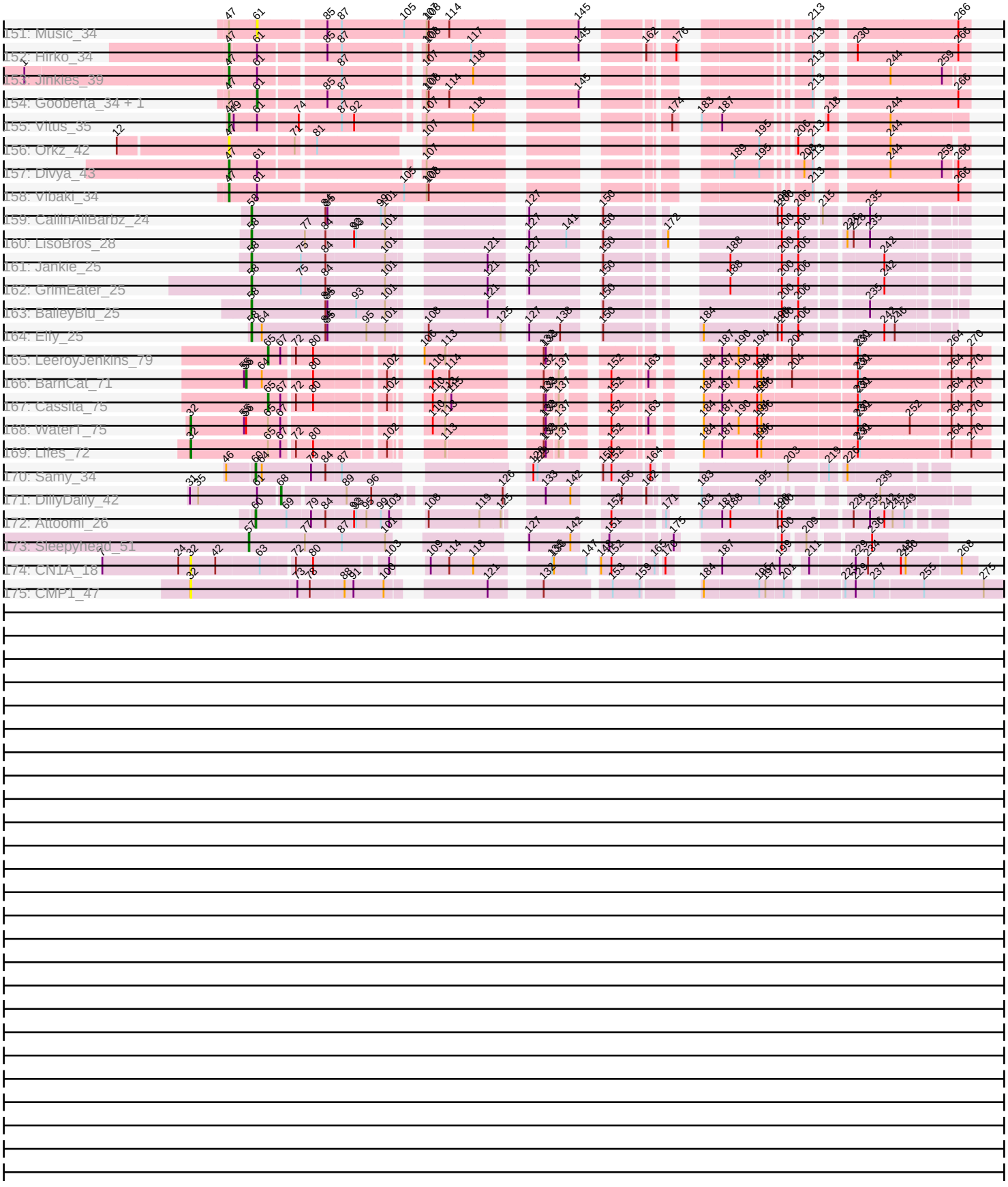
# Pham 347182



# Pham 347182


101: Buldak_29
102: WalkingDead_29
103: Kamdara_26
104: FlameThrower_26 + 1
105: Sharkboy_27
106: Loviatar_29
107: FinalFrontier_29 + 2
108: Franklin22_26 + 1
109: SanaSana_30
110: Cashington_28
111: DirtyBubble_28 + 1
112: Ollecat_27
113: Elva_29
114: Quenya_27
115: Jovita_29
116: Bachaco_26
117: Vitas_25
118: CliffHanger_30
119: Squircle_29
120: Wolfstar_73
121: Pioneer3_68 + 4
122: Hubbs_70
123: Pavlo_69 + 6
124: Alleb_68
125: Saradis_71
126: Jacko_71
127: Erenyeager_75 + 15
128: StevieWelch_75
129: Mistmere_69
130: OtzChips_26 + 1
131: Floof_26
132: IAmGroot_29
133: SuMoo_26
134: GardenState_29
135: Zeta1847_26
136: Caron_25
137: Cen1621_25
138: Honk_25
139: Gretchen_27 + 2
140: SuperHands_26
141: Mabodamaca_27
142: Mufasa8_46
143: Sunshine23_47
144: Maruru_46
145: Sonali_46
146: Kukla_52
147: PetriParty_54
148: GOPitcher_50
149: SunnyJune141
150: BlackJade_45

# Pham 347182


151: Music_34
152: Hirko_34
153: Jinkies_39
154: Goobella_34 + 1
155: Vitus_35
156: Orkz_42
157: Divya_43
158: Vibaki_34
159: CallMeAlBarbz_24
160: LisoBros_28
161: Jankie_25
162: GrimEater_25
163: BalleyBlu_25
164: Elly_25
165: LeeroyJenkins_79
166: BarnCat_71
167: Cassita_75
168: WaterT_75
169: Lilies_72
170: Samy_34
171: DillyDally_42
172: Attoomi_26
173: Sleepyhead0_51
174: CNIA_18
175: CMP1_47

Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

# Pham 347182 Report

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

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 347182 has 288 members, 33 are drafts.

Phages represented in each track:
- Track 1 : Michkear_29
- Track 2 : ThursdayNight_27
- Track 3 : Asa16_28, London_28, Subaru_28, Elezi_28, Skelbel_29, Eraser_28, Jstan_30, Niobe_28
- Track 4 : Powerpuff_26, AGrandiflora_27, YesChef_26
- Track 5 : Wildwest_27
- Track 6 : Cassia_26
- Track 7 : Crewmate_29, ObiToo_28
- Track 8 : Cyan_26, JohnDoe_26, Simpson_28, Flutur_26, Joemato_26
- Track 9 : Turab_26, Amploria_26, Adumb2043_26, AEgle_26
- Track 10 : Pumpkins_26
- Track 11 : Phives_28
- Track 12 : Mudpuppy_26
- Track 13 : Ascela_26, Iter_26
- Track 14 : Tutumahutu_26
- Track 15 : Kaylissa_26, Lego_26
- Track 16 : Tbone_26, Warda_26
- Track 17 : Community_27, Tuck_28
- Track 18 : Nitro_27
- Track 19 : Tian_27, Amyev_27, Pixelle_27
- Track 20 : MissSwiss_25, PandaPo_25
- Track 21 : Reedo_26
- Track 22 : Schaffner_26
- Track 23 : JuneStar_27
- Track 24 : Yang_26
- Track 25 : Adolin_25, DrManhattan_25
- Track 26 : KeAlii_27
- Track 27 : IttyBittyPiggy_26
- Track 28 : Lizalica_26
- Track 29 : Janeemi_28
- Track 30 : DrSierra_26
- Track 31 : VResidence_27
- Track 32 : Berrie_27

• Track 33 : Tallboi_27
• Track 34 : TforTroy_27
• Track 35 : Sue2_28
• Track 36 : IUFootball_26, Liebe_26, Maureen_26
• Track 37 : MaGuCo_25
• Track 38 : Snek_27, Tweety19_27
• Track 39 : ShakeItOph_28
• Track 40 : Origami_28, LadyAstra_28
• Track 41 : FiveHead_31
• Track 42 : VroomVroom_28
• Track 43 : Emotion_28
• Track 44 : JasmineDragon_28, MiniMommy_28
• Track 45 : AceofSpades_28
• Track 46 : JohnThicc_28
• Track 47 : Gumpizza_26, Ashes_26, SpecialK_26, Stuu_26, Moss_26, Beaupre_26, Mysterium_26, RockScotty_26
• Track 48 : Sabourin_26, Donkey_26, Sooty_26, Kalimba_26, Cappuccino_26, Gambol_26
• Track 49 : Halsey_26
• Track 50 : Giorgio_26
• Track 51 : Soondubu_26
• Track 52 : Exile_26
• Track 53 : AinMach_26
• Track 54 : SPB78_49
• Track 55 : VWB_39
• Track 56 : phiBT1_1
• Track 57 : Lilbooboo_24
• Track 58 : Vash_24
• Track 59 : Euratis_24
• Track 60 : Shawty_23
• Track 61 : Samora_24
• Track 62 : TG1_23
• Track 63 : Sebastisaurus_24
• Track 64 : Heather_24
• Track 65 : RemusLoopin_24
• Track 66 : Dubu_23
• Track 67 : phiSASD1_1
• Track 68 : AbbeyMikolon_28
• Track 69 : Rowa_30
• Track 70 : Nesbitt_28
• Track 71 : Frokostdame_57
• Track 72 : Celaena_26
• Track 73 : Nicky22_31, Slay_30
• Track 74 : Burritobowl_29, Kenzers_29, DickRichards_29, Lynlen_29, Arroyo_30, BubbaBear_29
• Track 75 : SirBeanington_29
• Track 76 : Clayda5_26, Rollins_25, Bernstein_25, Armstrong_25
• Track 77 : IndyLu_28, Eula_29, Bengal_29, Phisb_29, Jabb_29, AylexOG_30, MsUbiquitous_29, TukTuk_29, Pecas_29, CupcakePrincess_29, QMacho_30, BabyDaisy_29, SarBear_29
• Track 78 : Dismas_26, Rona_26, ChiliPepper_26, Kieran_26
• Track 79 : PastaFagioli_28, Lahqtemish_28
• Track 80 : LimaBean_28, Abigail_28, Softsoap_28

• Track 81 : Johnathan_28
• Track 82 : Teagster_29, SunnyD_27, Shayna_27
• Track 83 : Albedo_29, AnnaLie_30, Swervy_29, BelmontSKP_30
• Track 84 : Avocadoman_28
• Track 85 : CanFranMach_29
• Track 86 : Eden_25
• Track 87 : AvGardian_30
• Track 88 : BabyYoda_28
• Track 89 : Coltrane_25, Brahms_25
• Track 90 : Icarian_30
• Track 91 : CroZenni_29
• Track 92 : PondAmelia_29
• Track 93 : BAjuniper_27
• Track 94 : Stoor_29
• Track 95 : Lilo27_30
• Track 96 : Didgeridoo_30
• Track 97 : PhigPhack_30, SansAfet_29
• Track 98 : Akino08_28
• Track 99 : Skylord_25
• Track 100 : Albright_28, Doobus_28, Milomuff_29, Solea_30
• Track 101 : Buldak_29
• Track 102 : WalkingDead_29
• Track 103 : Kamdara_26
• Track 104 : FlameThrower_26, Katzastrophic_26
• Track 105 : Sharkboy_27
• Track 106 : Loviatar_29
• Track 107 : Finalfrontier_29, Kate33_28, Grist_29
• Track 108 : Franklin22_26, Gack_25
• Track 109 : SanaSana_30
• Track 110 : Cashington_28
• Track 111 : DirtyBubble_28, Stromboli_28
• Track 112 : Olliecat_29
• Track 113 : Elva_29
• Track 114 : Quenya_27
• Track 115 : Jovita_29
• Track 116 : Bachaco_26
• Track 117 : Vitas_25
• Track 118 : CliffHanger_30
• Track 119 : Squircle_29
• Track 120 : Wolfstar_73
• Track 121 : Pioneer3_68, Tandem_68, OlinDD_68, Platte_68, Hortus1_68
• Track 122 : Hubbs_70
• Track 123 : Pavlo_69, DejaVu_71, PhillyPhilly_69, Roman_72, Solimine_70, Lupine_68, Uterion_73
• Track 124 : Alleb_68
• Track 125 : Saradis_71
• Track 126 : Jacko_71
• Track 127 : Erenyeager_75, Lyell_74, Necrophoxinus_76, Casablancas_75, Issa7_73, Deschain_75, Fork_70, RunningBrook_76, Shroomer_79, DustyDino_78, Welcome_76, ASegato_73, Yuma_73, HollowPurple_75, SteakFry_77, Musetta_74
• Track 128 : StevieWelch_75
• Track 129 : Mistmere_69
• Track 130 : UtzChips_26, Barnstormer_26

• Track 131 : Floof_26
• Track 132 : IAmGroot_29
• Track 133 : SuMoo_26
• Track 134 : GardenState_29
• Track 135 : Zeta1847_26
• Track 136 : Caron_25
• Track 137 : Cen1621_25
• Track 138 : Honk_25
• Track 139 : Gretchen_27, Forester_26, Percival_27
• Track 140 : SuperHands_26
• Track 141 : Mabodamaca_27
• Track 142 : Mufasa8_46
• Track 143 : Sunshine23_47
• Track 144 : Maruru_46
• Track 145 : Sonali_46
• Track 146 : Kukla_52
• Track 147 : PetriParty_54
• Track 148 : GUPitcher_50
• Track 149 : SunnyJune_41
• Track 150 : BlackJade_45
• Track 151 : Music_34
• Track 152 : Hirko_34
• Track 153 : Jinkies_39
• Track 154 : Gooberta_34, GoldDust_34
• Track 155 : Vitus_35
• Track 156 : Orkz_42
• Track 157 : Divya_43
• Track 158 : Vibaki_34
• Track 159 : CallinAllBarbz_24
• Track 160 : LisoBros_28
• Track 161 : Jankie_25
• Track 162 : GrimEater_25
• Track 163 : BaileyBlu_25
• Track 164 : Elfy_25
• Track 165 : LeeroyJenkins_79
• Track 166 : BarnCat_71
• Track 167 : Cassita_75
• Track 168 : WaterT_75
• Track 169 : Lifes_72
• Track 170 : Samy_34
• Track 171 : DillyDally_42
• Track 172 : Attoomi_26
• Track 173 : Sleepyhead_51
• Track 174 : CN1A_18
• Track 175 : CMP1_47

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

The start number called the most often in the published annotations is 58, it was called in 100 of the 255 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AEgle_26, AGrandiflora_27, AceofSpades_28, Adolin_25, Adumb2043_26, AinMach_26, Amploria_26, Amyev_27, Asa16_28, Ascela_26, Ashes_26, BaileyBlu_25, Barnstormer_26, Beaupre_26, Berrie_27, CallinAllBarbz_24, Cappuccino_26, Caron_25, Cassia_26, Cen1621_25, Community_27, Crewmate_29, Cyan_26, Donkey_26, DrManhattan_25, DrSierra_26, Elezi_28, Elfy_25, Emotion_28, Eraser_28, Exile_26, Flutur_26, Forester_26, Frokostdame_57, Gambol_26, GardenState_29, Giorgio_26, Gretchen_27, GrimEater_25, Gumpizza_26, Halsey_26, Honk_25, IAmGroot_29, IUFootball_26, Iter_26, IttyBittyPiggy_26, Janeemi_28, Jankie_25, JasmineDragon_28, Joemato_26, JohnDoe_26, JohnThicc_28, Jstan_30, JuneStar_27, Kalimba_26, Kaylissa_26, KeAlii_27, LadyAstra_28, Lego_26, Liebe_26, LisoBros_28, Lizalica_26, London_28, MaGuCo_25, Mabodamaca_27, Maureen_26, Michkear_29, MiniMommy_28, MissSwiss_25, Moss_26, Mudpuppy_26, Mysterium_26, Niobe_28, Nitro_27, ObiToo_28, Origami_28, PandaPo_25, Percival_27, Phives_28, Pixelle_27, Powerpuff_26, Pumpkins_26, Reedo_26, RockScotty_26, SPB78_49, Sabourin_26, Schaffner_26, Simpson_28, Skelbel_29, Snek_27, Soondubu_26, Sooty_26, SpecialK_26, Stuu_26, SuMoo_26, Subaru_28, SuperHands_26, Tallboi_27, Tbone_26, TforTroy_27, ThursdayNight_27, Tian_27, Tuck_28, Turab_26, Tutumahutu_26, Tweety19_27, UtzChips_26, VResidence_27, VWB_39, VroomVroom_28, Warda_26, Wildwest_27, Yang_26, YesChef_26, Zeta1847_26,

Genes that have the "Most Annotated" start but do not call it:
• FiveHead_31, Floof_26, ShakeItOph_28, Sue2_28,

Genes that do not have the "Most Annotated" start:
• ASegato_73, AbbeyMikolon_28, Abigail_28, Akino08_28, Albedo_29, Albright_28, Alleb_68, AnnaLie_30, Armstrong_25, Arroyo_30, Attoomi_26, AvGardian_30, Avocadoman_28, AylexOG_30, BAjuniper_27, BabyDaisy_29, BabyYoda_28, Bachaco_26, BarnCat_71, BelmontSKP_30, Bengal_29, Bernstein_25, BlackJade_45, Brahms_25, BubbaBear_29, Buldak_29, Burritobowl_29, CMP1_47, CN1A_18, CanFranMach_29, Casablancas_75, Cashington_28, Cassita_75, Celaena_26, ChiliPepper_26, Clayda5_26, CliffHanger_30, Coltrane_25, CroZenni_29, CupcakePrincess_29, DejaVu_71, Deschain_75, DickRichards_29, Didgeridoo_30, DillyDally_42, DirtyBubble_28, Dismas_26, Divya_43, Doobus_28, Dubu_23, DustyDino_78, Eden_25, Elva_29, Erenyeager_75, Eula_29, Euratis_24, Finalfrontier_29, FlameThrower_26, Fork_70, Franklin22_26, GUPitcher_50, Gack_25, GoldDust_34, Gooberta_34, Grist_29, Heather_24, Hirko_34, HollowPurple_75, Hortus1_68, Hubbs_70, Icarian_30, IndyLu_28, Issa7_73, Jabb_29, Jacko_71, Jinkies_39, Johnathan_28, Jovita_29, Kamdara_26, Kate33_28, Katzastrophic_26, Kenzers_29, Kieran_26, Kukla_52, Lahqtemish_28, LeeroyJenkins_79, Lifes_72, Lilbooboo_24, Lilo27_30, LimaBean_28, Loviatar_29, Lupine_68, Lyell_74, Lynlen_29, Maruru_46, Milomuff_29, Mistmere_69, MsUbiquitous_29, Mufasa8_46, Musetta_74, Music_34, Necrophoxinus_76, Nesbitt_28, Nicky22_31, OlinDD_68, Olliecat_29, Orkz_42, PastaFagioli_28, Pavlo_69, Pecas_29, PetriParty_54, PhigPhack_30, PhillyPhilly_69, Phisb_29, Pioneer3_68, Platte_68, PondAmelia_29, QMacho_30, Quenya_27, RemusLoopin_24, Rollins_25, Roman_72, Rona_26, Rowa_30, RunningBrook_76, Samora_24, Samy_34, SanaSana_30, SansAfet_29, SarBear_29, Saradis_71, Sebastisaurus_24, Sharkboy_27, Shawty_23, Shayna_27, Shroomer_79, SirBeanington_29, Skylord_25, Slay_30, Sleepyhead_51, Softsoap_28, Solea_30, Solimine_70, Sonali_46, Squircle_29, SteakFry_77, StevieWelch_75, Stoor_29,

Stromboli_28, SunnyD_27, SunnyJune_41, Sunshine23_47, Swervy_29, TG1_23, Tandem_68, Teagster_29, TukTuk_29, Uterion_73, Vash_24, Vibaki_34, Vitas_25, Vitus_35, WalkingDead_29, WaterT_75, Welcome_76, Wolfstar_73, Yuma_73, phiBT1_1, phiSASD1_1,

**Summary by start number:**

Start 32:
• Found in 4 of 288 ( 1.4% ) of genes in pham
• Manual Annotations of this start: 2 of 255
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CMP1_47 (singleton), CN1A_18 (singleton), Lifes_72 (GB), WaterT_75 (GB),

Start 37:
• Found in 10 of 288 ( 3.5% ) of genes in pham
• Manual Annotations of this start: 1 of 255
• Called 20.0% of time when present
• Phage (with cluster) where this start called: FiveHead_31 (AZ4), ShakeItOph_28 (AZ4),

Start 39:
• Found in 3 of 288 ( 1.0% ) of genes in pham
• Manual Annotations of this start: 2 of 255
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Buldak_29 (EB), Squircle_29 (EB),

Start 44:
• Found in 47 of 288 ( 16.3% ) of genes in pham
• Manual Annotations of this start: 30 of 255
• Called 74.5% of time when present
• Phage (with cluster) where this start called: ASegato_73 (ED2), Alleb_68 (ED1), Casablancas_75 (ED2), DejaVu_71 (ED1), Deschain_75 (ED2), DustyDino_78 (ED2), Erenyeager_75 (ED2), Fork_70 (ED2), HollowPurple_75 (ED2), Hortus1_68 (ED1), Hubbs_70 (ED1), Issa7_73 (ED2), Jacko_71 (ED1), Lupine_68 (ED1), Lyell_74 (ED2), Mistmere_69 (ED3), Musetta_74 (ED2), Necrophoxinus_76 (ED2), OlinDD_68 (ED1), Pavlo_69 (ED1), PhillyPhilly_69 (ED1), Pioneer3_68 (ED1), Platte_68 (ED1), Roman_72 (ED1), RunningBrook_76 (ED2), Saradis_71 (ED1), Shroomer_79 (ED2), Solimine_70 (ED1), SteakFry_77 (ED2), StevieWelch_75 (ED2), Tandem_68 (ED1), Uterion_73 (ED1), Welcome_76 (ED2), Wolfstar_73 (ED), Yuma_73 (ED2),

Start 45:
• Found in 8 of 288 ( 2.8% ) of genes in pham
• Manual Annotations of this start: 2 of 255
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Floof_26 (EH), Sue2_28 (AZ1),

Start 47:
• Found in 11 of 288 ( 3.8% ) of genes in pham
• Manual Annotations of this start: 6 of 255
• Called 72.7% of time when present
• Phage (with cluster) where this start called: BlackJade_45 (FL), Divya_43 (FL), Hirko_34 (FL), Jinkies_39 (FL), Orkz_42 (FL), SunnyJune_41 (FL), Vibaki_34 (FL),

Vitus_35 (FL),

Start 48:
• Found in 7 of 288 ( 2.4% ) of genes in pham
• Manual Annotations of this start: 4 of 255
• Called 57.1% of time when present
• Phage (with cluster) where this start called: CliffHanger_30 (EB), Shayna_27 (EB), SunnyD_27 (EB), Teagster_29 (EB),

Start 50:
• Found in 85 of 288 ( 29.5% ) of genes in pham
• Manual Annotations of this start: 69 of 255
• Called 85.9% of time when present
• Phage (with cluster) where this start called: Abigail_28 (EB), Akino08_28 (EB), Albedo_29 (EB), Albright_28 (EB), AnnaLie_30 (EB), Arroyo_30 (EB), AvGardian_30 (EB), Avocadoman_28 (EB), AylexOG_30 (EB), BAjuniper_27 (EB), BabyDaisy_29 (EB), BabyYoda_28 (EB), Bachaco_26 (EB), BelmontSKP_30 (EB), Bengal_29 (EB), BubbaBear_29 (EB), Burritobowl_29 (EB), CanFranMach_29 (EB), Cashington_28 (EB), Celaena_26 (EB), ChiliPepper_26 (EB), CroZenni_29 (EB), CupcakePrincess_29 (EB), DickRichards_29 (EB), Didgeridoo_30 (EB), DirtyBubble_28 (EB), Dismas_26 (EB), Doobus_28 (EB), Elva_29 (EB), Eula_29 (EB), Finalfrontier_29 (EB), FlameThrower_26 (EB), Grist_29 (EB), Icarian_30 (EB), IndyLu_28 (EB), Jabb_29 (EB), Johnathan_28 (EB), Jovita_29 (EB), Kamdara_26 (EB), Kate33_28 (EB), Katzastrophic_26 (EB), Kenzers_29 (EB), Kieran_26 (EB), Lahqtemish_28 (EB), Lilo27_30 (EB), LimaBean_28 (EB), Loviatar_29 (EB), Lynlen_29 (EB), Milomuff_29 (EB), MsUbiquitous_29 (EB), Nicky22_31 (EB), Olliecat_29 (EB), PastaFagioli_28 (EB), Pecas_29 (EB), PhigPhack_30 (EB), Phisb_29 (EB), PondAmelia_29 (EB), QMacho_30 (EB), Quenya_27 (EB), Rona_26 (EB), SanaSana_30 (EB), SansAfet_29 (EB), SarBear_29 (EB), Sharkboy_27 (EB), SirBeanington_29 (EB), Slay_30 (EB), Softsoap_28 (EB), Solea_30 (EB), Stoor_29 (EB), Stromboli_28 (EB), Swervy_29 (EB), TukTuk_29 (EB), WalkingDead_29 (EB),

Start 52:
• Found in 6 of 288 ( 2.1% ) of genes in pham
• Manual Annotations of this start: 2 of 255
• Called 50.0% of time when present
• Phage (with cluster) where this start called: GUPitcher_50 (FJ), Kukla_52 (FJ), PetriParty_54 (FJ),

Start 53:
• Found in 11 of 288 ( 3.8% ) of genes in pham
• Manual Annotations of this start: 11 of 255
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Armstrong_25 (EB), Bernstein_25 (EB), Brahms_25 (EB), Clayda5_26 (EB), Coltrane_25 (EB), Eden_25 (EB), Franklin22_26 (EB), Gack_25 (EB), Rollins_25 (EB), Skylord_25 (EB), Vitas_25 (EB),

Start 56:
• Found in 2 of 288 ( 0.7% ) of genes in pham
• Manual Annotations of this start: 1 of 255
• Called 50.0% of time when present
• Phage (with cluster) where this start called: BarnCat_71 (GB),

Start 57:
• Found in 1 of 288 ( 0.3% ) of genes in pham
• Manual Annotations of this start: 1 of 255
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Sleepyhead_51 (singleton),

Start 58:
• Found in 119 of 288 ( 41.3% ) of genes in pham
• Manual Annotations of this start: 100 of 255
• Called 96.6% of time when present
• Phage (with cluster) where this start called: AEgle_26 (AZ1), AGrandiflora_27 (AZ1), AceofSpades_28 (AZ4), Adolin_25 (AZ1), Adumb2043_26 (AZ1), AinMach_26 (AZ7), Amploria_26 (AZ1), Amyev_27 (AZ1), Asa16_28 (AZ1), Ascela_26 (AZ1), Ashes_26 (AZ5), BaileyBlu_25 (FP), Barnstormer_26 (EH), Beaupre_26 (AZ5), Berrie_27 (AZ1), CallinAllBarbz_24 (FP), Cappuccino_26 (AZ5), Caron_25 (EH), Cassia_26 (AZ1), Cen1621_25 (EH), Community_27 (AZ1), Crewmate_29 (AZ1), Cyan_26 (AZ1), Donkey_26 (AZ5), DrManhattan_25 (AZ1), DrSierra_26 (AZ1), Elezi_28 (AZ1), Elfy_25 (FP), Emotion_28 (AZ4), Eraser_28 (AZ1), Exile_26 (AZ6), Flutur_26 (AZ), Forester_26 (EH), Frokostdame_57 (CV), Gambol_26 (AZ5), GardenState_29 (EH), Giorgio_26 (AZ5), Gretchen_27 (EH), GrimEater_25 (FP), Gumpizza_26 (AZ5), Halsey_26 (AZ5), Honk_25 (EH), IAmGroot_29 (EH), IUFootball_26 (AZ2), Iter_26 (AZ1), IttyBittyPiggy_26 (AZ1), Janeemi_28 (AZ1), Jankie_25 (FP), JasmineDragon_28 (AZ4), Joemato_26 (AZ1), JohnDoe_26 (AZ1), JohnThicc_28 (AZ4), Jstan_30 (AZ1), JuneStar_27 (AZ1), Kalimba_26 (AZ5), Kaylissa_26 (AZ1), KeAlii_27 (AZ1), LadyAstra_28 (AZ4), Lego_26 (AZ1), Liebe_26 (AZ2), LisoBros_28 (FP), Lizalica_26 (AZ1), London_28 (AZ1), MaGuCo_25 (AZ2), Mabodamaca_27 (EH), Maureen_26 (AZ2), Michkear_29 (AZ), MiniMommy_28 (AZ4), MissSwiss_25 (AZ1), Moss_26 (AZ5), Mudpuppy_26 (AZ1), Mysterium_26 (AZ5), Niobe_28 (AZ1), Nitro_27 (AZ1), ObiToo_28 (AZ1), Origami_28 (AZ4), PandaPo_25 (AZ1), Percival_27 (EH), Phives_28 (AZ1), Pixelle_27 (AZ1), Powerpuff_26 (AZ1), Pumpkins_26 (AZ1), Reedo_26 (AZ1), RockScotty_26 (AZ5), SPB78_49 (BA), Sabourin_26 (AZ5), Schaffner_26 (AZ1), Simpson_28 (AZ1), Skelbel_29 (AZ1), Snek_27 (AZ3), Soondubu_26 (AZ6), Sooty_26 (AZ5), SpecialK_26 (AZ5), Stuu_26 (AZ5), SuMoo_26 (EH), Subaru_28 (AZ1), SuperHands_26 (EH), Tallboi_27 (AZ1), Tbone_26 (AZ1), TforTroy_27 (AZ1), ThursdayNight_27 (AZ), Tian_27 (AZ1), Tuck_28 (AZ1), Turab_26 (AZ1), Tutumahutu_26 (AZ1), Tweety19_27 (AZ3), UtzChips_26 (EH), VResidence_27 (AZ1), VWB_39 (BA), VroomVroom_28 (AZ4), Warda_26 (AZ1), Wildwest_27 (AZ1), Yang_26 (AZ1), YesChef_26 (AZ1), Zeta1847_26 (EH),

Start 59:
• Found in 1 of 288 ( 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: phiSASD1_1 (BJ),

Start 60:
• Found in 14 of 288 ( 4.9% ) of genes in pham
• Manual Annotations of this start: 13 of 255
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Attoomi_26 (singleton), Dubu_23 (BJ), Euratis_24 (BB1), Heather_24 (BB2), Lilbooboo_24 (BB1), RemusLoopin_24 (BB2), Rowa_30 (BL), Samora_24 (BB1), Samy_34 (singleton), Sebastisaurus_24 (BB2),

Shawty_23 (BB1), TG1_23 (BB1), Vash_24 (BB1), phiBT1_1 (BB1),

Start 61:
• Found in 10 of 288 ( 3.5% ) of genes in pham
• Manual Annotations of this start: 2 of 255
• Called 30.0% of time when present
• Phage (with cluster) where this start called: GoldDust_34 (FL), Gooberta_34 (FL), Music_34 (FL),

Start 62:
• Found in 2 of 288 ( 0.7% ) of genes in pham
• Manual Annotations of this start: 2 of 255
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AbbeyMikolon_28 (BL), Nesbitt_28 (BL),

Start 64:
• Found in 23 of 288 ( 8.0% ) of genes in pham
• Manual Annotations of this start: 4 of 255
• Called 17.4% of time when present
• Phage (with cluster) where this start called: Maruru_46 (FG), Mufasa8_46 (FG), Sonali_46 (FG), Sunshine23_47 (FG),

Start 65:
• Found in 5 of 288 ( 1.7% ) of genes in pham
• Manual Annotations of this start: 2 of 255
• Called 40.0% of time when present
• Phage (with cluster) where this start called: Cassita_75 (GB), LeeroyJenkins_79 (GB),

Start 68:
• Found in 1 of 288 ( 0.3% ) of genes in pham
• Manual Annotations of this start: 1 of 255
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DillyDally_42 (singleton),

**Summary by clusters:**

There are 26 clusters represented in this pham: FP, singleton, BA, BL, BJ, ED2, ED3, ED1, FG, FJ, FL, BB2, BB1, EH, ED, EB, GB, AZ, CV, AZ1, AZ2, AZ3, AZ4, AZ5, AZ6, AZ7,

Info for manual annotations of cluster AZ:
•Start number 58 was manually annotated 1 time for cluster AZ.

Info for manual annotations of cluster AZ1:
•Start number 45 was manually annotated 1 time for cluster AZ1.
•Start number 58 was manually annotated 48 times for cluster AZ1.

Info for manual annotations of cluster AZ2:
•Start number 58 was manually annotated 4 times for cluster AZ2.

Info for manual annotations of cluster AZ3:
•Start number 58 was manually annotated 2 times for cluster AZ3.

Info for manual annotations of cluster AZ4:
•Start number 37 was manually annotated 1 time for cluster AZ4.
•Start number 58 was manually annotated 7 times for cluster AZ4.

Info for manual annotations of cluster AZ5:
•Start number 58 was manually annotated 16 times for cluster AZ5.

Info for manual annotations of cluster AZ6:
•Start number 58 was manually annotated 1 time for cluster AZ6.

Info for manual annotations of cluster BB1:
•Start number 60 was manually annotated 6 times for cluster BB1.

Info for manual annotations of cluster BB2:
•Start number 60 was manually annotated 3 times for cluster BB2.

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

Info for manual annotations of cluster BL:
•Start number 60 was manually annotated 1 time for cluster BL.
•Start number 62 was manually annotated 2 times for cluster BL.

Info for manual annotations of cluster CV:
•Start number 58 was manually annotated 1 time for cluster CV.

Info for manual annotations of cluster EB:
•Start number 39 was manually annotated 2 times for cluster EB.
•Start number 48 was manually annotated 4 times for cluster EB.
•Start number 50 was manually annotated 69 times for cluster EB.
•Start number 53 was manually annotated 11 times for cluster EB.

Info for manual annotations of cluster ED:
•Start number 44 was manually annotated 1 time for cluster ED.

Info for manual annotations of cluster ED1:
•Start number 44 was manually annotated 14 times for cluster ED1.

Info for manual annotations of cluster ED2:
•Start number 44 was manually annotated 15 times for cluster ED2.

Info for manual annotations of cluster EH:
•Start number 45 was manually annotated 1 time for cluster EH.
•Start number 58 was manually annotated 14 times for cluster EH.

Info for manual annotations of cluster FG:
•Start number 64 was manually annotated 4 times for cluster FG.

Info for manual annotations of cluster FJ:

•Start number 52 was manually annotated 2 times for cluster FJ.

Info for manual annotations of cluster FL:
•Start number 47 was manually annotated 6 times for cluster FL.
•Start number 61 was manually annotated 2 times for cluster FL.

Info for manual annotations of cluster FP:
•Start number 58 was manually annotated 6 times for cluster FP.

Info for manual annotations of cluster GB:
•Start number 32 was manually annotated 2 times for cluster GB.
•Start number 56 was manually annotated 1 time for cluster GB.
•Start number 65 was manually annotated 2 times for cluster GB.

### *Gene Information:*

Gene: AEgle_26 Start: 21448, Stop: 22278, Start Num: 58
Candidate Starts for AEgle_26:
(Start: 58 @21448 has 100 MA's), (77, 21526), (84, 21553), (95, 21610), (99, 21631), (101, 21637), (121, 21748), (150, 21850), (200, 22042), (206, 22066),

Gene: AGrandiflora_27 Start: 21481, Stop: 22308, Start Num: 58
Candidate Starts for AGrandiflora_27:
(Start: 58 @21481 has 100 MA's), (84, 21586), (85, 21589), (99, 21664), (101, 21670), (121, 21781), (127, 21808), (150, 21883), (200, 22075), (206, 22099),

Gene: ASegato_73 Start: 42743, Stop: 41883, Start Num: 44
Candidate Starts for ASegato_73:
(Start: 44 @42743 has 30 MA's), (83, 42626), (103, 42530), (132, 42374), (155, 42290), (189, 42182), (217, 42071), (222, 42056), (229, 42035), (247, 41978),

Gene: AbbeyMikolon_28 Start: 21726, Stop: 22598, Start Num: 62
Candidate Starts for AbbeyMikolon_28:
(Start: 62 @21726 has 2 MA's), (69, 21768), (84, 21819), (92, 21858), (95, 21876), (101, 21903), (102, 21906), (108, 21933), (136, 22113), (138, 22122), (143, 22143), (162, 22215), (177, 22260), (190, 22335), (194, 22362), (206, 22416), (219, 22455), (226, 22473),

Gene: Abigail_28 Start: 21092, Stop: 21970, Start Num: 50
Candidate Starts for Abigail_28:
(Start: 50 @21092 has 69 MA's), (93, 21254), (132, 21461), (133, 21464), (141, 21494), (160, 21569), (181, 21638), (187, 21674), (188, 21686), (216, 21812),

Gene: AceofSpades_28 Start: 21554, Stop: 22393, Start Num: 58
Candidate Starts for AceofSpades_28:
(Start: 45 @21518 has 2 MA's), (Start: 58 @21554 has 100 MA's), (84, 21659), (101, 21743), (121, 21854), (226, 22229), (232, 22250),

Gene: Adolin_25 Start: 19890, Stop: 20729, Start Num: 58
Candidate Starts for Adolin_25:
(40, 19842), (Start: 58 @19890 has 100 MA's), (77, 19968), (84, 19995), (85, 19998), (101, 20079), (108, 20109), (121, 20193), (150, 20295), (198, 20481), (200, 20487),

Gene: Adumb2043_26 Start: 21447, Stop: 22277, Start Num: 58
Candidate Starts for Adumb2043_26:
(Start: 58 @21447 has 100 MA's), (77, 21525), (84, 21552), (95, 21609), (99, 21630), (101, 21636), (121, 21747), (150, 21849), (200, 22041), (206, 22065),

Gene: AinMach_26 Start: 21970, Stop: 22809, Start Num: 58
Candidate Starts for AinMach_26:
(29, 21880), (36, 21901), (Start: 58 @21970 has 100 MA's), (75, 22042), (84, 22075), (85, 22078), (101, 22159), (121, 22270), (150, 22372), (184, 22456), (198, 22558), (200, 22564), (206, 22588), (226, 22645), (242, 22696), (246, 22711),

Gene: Akino08_28 Start: 22632, Stop: 23558, Start Num: 50
Candidate Starts for Akino08_28:
(Start: 50 @22632 has 69 MA's), (79, 22737), (93, 22797), (116, 22917), (141, 23037), (179, 23175), (181, 23181), (188, 23229), (208, 23331), (216, 23355), (271, 23547), (272, 23550),

Gene: Albedo_29 Start: 21558, Stop: 22436, Start Num: 50
Candidate Starts for Albedo_29:
(Start: 50 @21558 has 69 MA's), (93, 21720), (132, 21927), (133, 21930), (141, 21960), (181, 22104), (187, 22140), (188, 22152), (216, 22278),

Gene: Albright_28 Start: 20850, Stop: 21722, Start Num: 50
Candidate Starts for Albright_28:
(Start: 50 @20850 has 69 MA's), (93, 21012), (132, 21219), (133, 21222), (141, 21252), (160, 21327), (181, 21396), (187, 21432), (188, 21444),

Gene: Alleb_68 Start: 42903, Stop: 42067, Start Num: 44
Candidate Starts for Alleb_68:
(Start: 44 @42903 has 30 MA's), (83, 42789), (85, 42780), (109, 42672), (132, 42540), (142, 42501), (155, 42456), (157, 42441), (173, 42396), (189, 42348), (227, 42210), (247, 42141),

Gene: Amploria_26 Start: 21447, Stop: 22277, Start Num: 58
Candidate Starts for Amploria_26:
(Start: 58 @21447 has 100 MA's), (77, 21525), (84, 21552), (95, 21609), (99, 21630), (101, 21636), (121, 21747), (150, 21849), (200, 22041), (206, 22065),

Gene: Amyev_27 Start: 23372, Stop: 24199, Start Num: 58
Candidate Starts for Amyev_27:
(Start: 52 @23357 has 2 MA's), (Start: 58 @23372 has 100 MA's), (84, 23477), (99, 23555), (101, 23561), (121, 23672), (200, 23966),

Gene: AnnaLie_30 Start: 21841, Stop: 22719, Start Num: 50
Candidate Starts for AnnaLie_30:
(Start: 50 @21841 has 69 MA's), (93, 22003), (132, 22210), (133, 22213), (141, 22243), (181, 22387), (187, 22423), (188, 22435), (216, 22561),

Gene: Armstrong_25 Start: 19307, Stop: 20188, Start Num: 53
Candidate Starts for Armstrong_25:
(Start: 53 @19307 has 11 MA's), (Start: 64 @19337 has 4 MA's), (93, 19466), (112, 19550), (120, 19610), (125, 19637), (133, 19676), (181, 19859), (187, 19895), (216, 20033), (228, 20066), (253, 20150),

Gene: Arroyo_30 Start: 22039, Stop: 22911, Start Num: 50
Candidate Starts for Arroyo_30:
(Start: 50 @22039 has 69 MA's), (93, 22201), (132, 22408), (133, 22411), (141, 22441), (181, 22585), (187, 22621), (188, 22633), (216, 22759),

Gene: Asa16_28 Start: 23617, Stop: 24447, Start Num: 58
Candidate Starts for Asa16_28:
(Start: 58 @23617 has 100 MA's), (84, 23722), (99, 23800), (101, 23806), (121, 23917), (133, 23968), (150, 24019), (200, 24211), (206, 24235),

Gene: Ascela_26 Start: 21460, Stop: 22293, Start Num: 58
Candidate Starts for Ascela_26:
(Start: 58 @21460 has 100 MA's), (84, 21565), (85, 21568), (99, 21643), (101, 21649), (121, 21760), (133, 21811), (200, 22054), (206, 22078),

Gene: Ashes_26 Start: 20152, Stop: 20988, Start Num: 58
Candidate Starts for Ashes_26:
(Start: 44 @20110 has 30 MA's), (Start: 50 @20128 has 69 MA's), (Start: 58 @20152 has 100 MA's), (84, 20251), (116, 20413), (121, 20446), (129, 20485), (190, 20683), (200, 20740), (205, 20761), (206, 20764), (235, 20854),

Gene: Attoomi_26 Start: 21271, Stop: 22065, Start Num: 60
Candidate Starts for Attoomi_26:
(Start: 60 @21271 has 13 MA's), (69, 21316), (79, 21349), (84, 21367), (92, 21406), (93, 21409), (95, 21424), (99, 21445), (103, 21457), (108, 21478), (119, 21550), (125, 21580), (152, 21676), (171, 21739), (183, 21745), (187, 21775), (188, 21787), (198, 21853), (200, 21859), (228, 21949), (235, 21970), (242, 21991), (245, 22003), (249, 22018),

Gene: AvGardian_30 Start: 21901, Stop: 22776, Start Num: 50
Candidate Starts for AvGardian_30:
(11, 21733), (Start: 50 @21901 has 69 MA's), (79, 22003), (93, 22063), (133, 22273), (141, 22303), (168, 22405), (181, 22447), (188, 22495),

Gene: Avocadoman_28 Start: 21034, Stop: 21912, Start Num: 50
Candidate Starts for Avocadoman_28:
(17, 20935), (Start: 50 @21034 has 69 MA's), (93, 21196), (132, 21403), (133, 21406), (141, 21436), (160, 21511), (181, 21580), (187, 21616), (188, 21628),

Gene: AylexOG_30 Start: 21869, Stop: 22747, Start Num: 50
Candidate Starts for AylexOG_30:
(Start: 50 @21869 has 69 MA's), (93, 22031), (132, 22238), (133, 22241), (141, 22271), (168, 22373), (181, 22415), (187, 22451), (188, 22463), (216, 22589),

Gene: BAjuniper_27 Start: 22228, Stop: 23160, Start Num: 50
Candidate Starts for BAjuniper_27:
(Start: 50 @22228 has 69 MA's), (79, 22330), (120, 22534), (133, 22600), (141, 22630), (181, 22774), (206, 22915), (216, 22948), (263, 23110), (273, 23149),

Gene: BabyDaisy_29 Start: 21585, Stop: 22454, Start Num: 50
Candidate Starts for BabyDaisy_29:
(Start: 50 @21585 has 69 MA's), (93, 21744), (132, 21951), (133, 21954), (141, 21984), (168, 22086), (181, 22128), (187, 22164), (188, 22176), (216, 22302),

Gene: BabyYoda_28 Start: 21834, Stop: 22760, Start Num: 50
Candidate Starts for BabyYoda_28:
(Start: 50 @21834 has 69 MA's), (79, 21939), (93, 21999), (116, 22119), (141, 22239), (181, 22383), (187, 22419), (188, 22431), (271, 22749), (272, 22752),

Gene: Bachaco_26 Start: 22486, Stop: 23376, Start Num: 50
Candidate Starts for Bachaco_26:
(14, 22351), (Start: 50 @22486 has 69 MA's), (79, 22588), (120, 22792), (133, 22858), (181, 23032), (187, 23068), (188, 23080), (206, 23173), (208, 23182), (216, 23206),

Gene: BaileyBlu_25 Start: 20669, Stop: 21496, Start Num: 58
Candidate Starts for BaileyBlu_25:
(Start: 58 @20669 has 100 MA's), (84, 20774), (85, 20777), (93, 20816), (101, 20858), (121, 20969), (150, 21071), (200, 21263), (206, 21287), (235, 21374),

Gene: BarnCat_71 Start: 43640, Stop: 42804, Start Num: 56
Candidate Starts for BarnCat_71:
(55, 43643), (Start: 56 @43640 has 1 MA's), (Start: 64 @43619 has 4 MA's), (80, 43553), (102, 43466), (110, 43442), (114, 43421), (132, 43316), (137, 43298), (152, 43250), (163, 43208), (184, 43184), (187, 43160), (190, 43136), (194, 43109), (196, 43103), (204, 43067), (230, 42980), (231, 42977), (264, 42854), (270, 42830),

Gene: Barnstormer_26 Start: 21235, Stop: 22050, Start Num: 58
Candidate Starts for Barnstormer_26:
(Start: 58 @21235 has 100 MA's), (97, 21409), (102, 21424), (110, 21454), (121, 21532), (125, 21550), (150, 21634), (184, 21718), (206, 21850), (226, 21907), (246, 21970), (249, 21982),

Gene: Beaupre_26 Start: 20153, Stop: 20989, Start Num: 58
Candidate Starts for Beaupre_26:
(Start: 44 @20111 has 30 MA's), (Start: 50 @20129 has 69 MA's), (Start: 58 @20153 has 100 MA's), (84, 20252), (116, 20414), (121, 20447), (129, 20486), (190, 20684), (200, 20741), (205, 20762), (206, 20765), (235, 20855),

Gene: BelmontSKP_30 Start: 21841, Stop: 22719, Start Num: 50
Candidate Starts for BelmontSKP_30:
(Start: 50 @21841 has 69 MA's), (93, 22003), (132, 22210), (133, 22213), (141, 22243), (181, 22387), (187, 22423), (188, 22435), (216, 22561),

Gene: Bengal_29 Start: 21427, Stop: 22305, Start Num: 50
Candidate Starts for Bengal_29:
(Start: 50 @21427 has 69 MA's), (93, 21589), (132, 21796), (133, 21799), (141, 21829), (168, 21931), (181, 21973), (187, 22009), (188, 22021), (216, 22147),

Gene: Bernstein_25 Start: 19362, Stop: 20243, Start Num: 53
Candidate Starts for Bernstein_25:
(Start: 53 @19362 has 11 MA's), (Start: 64 @19392 has 4 MA's), (93, 19521), (112, 19605), (120, 19665), (125, 19692), (133, 19731), (181, 19914), (187, 19950), (216, 20088), (228, 20121), (253, 20205),

Gene: Berrie_27 Start: 22583, Stop: 23416, Start Num: 58
Candidate Starts for Berrie_27:
(Start: 58 @22583 has 100 MA's), (77, 22661), (79, 22670), (84, 22688), (85, 22691), (99, 22766), (101, 22772), (121, 22883), (133, 22934), (150, 22985), (198, 23171), (200, 23177), (206, 23201),

Gene: BlackJade_45 Start: 31005, Stop: 31841, Start Num: 47
Candidate Starts for BlackJade_45:
(Start: 47 @31005 has 6 MA's), (49, 31011), (87, 31146), (92, 31164), (107, 31242), (118, 31308), (213, 31653), (244, 31734),

Gene: Brahms_25 Start: 19309, Stop: 20190, Start Num: 53
Candidate Starts for Brahms_25:
(Start: 53 @19309 has 11 MA's), (Start: 64 @19339 has 4 MA's), (93, 19468), (108, 19537), (112, 19552), (120, 19612), (125, 19639), (133, 19678), (181, 19861), (187, 19897), (216, 20035), (228, 20068), (253, 20152),

Gene: BubbaBear_29 Start: 21529, Stop: 22401, Start Num: 50
Candidate Starts for BubbaBear_29:
(Start: 50 @21529 has 69 MA's), (93, 21691), (132, 21898), (133, 21901), (141, 21931), (181, 22075), (187, 22111), (188, 22123), (216, 22249),

Gene: Buldak_29 Start: 20870, Stop: 21808, Start Num: 39
Candidate Starts for Buldak_29:
(5, 20699), (8, 20714), (Start: 39 @20870 has 2 MA's), (Start: 48 @20900 has 4 MA's), (Start: 50 @20906 has 69 MA's), (70, 20990), (93, 21074), (108, 21143), (120, 21218), (125, 21245), (129, 21272), (132, 21281), (133, 21284), (138, 21305), (150, 21335), (162, 21392), (168, 21416), (169, 21419), (198, 21569), (205, 21596), (206, 21599), (216, 21632), (249, 21734), (260, 21785),

Gene: Burritobowl_29 Start: 21596, Stop: 22468, Start Num: 50
Candidate Starts for Burritobowl_29:
(Start: 50 @21596 has 69 MA's), (93, 21758), (132, 21965), (133, 21968), (141, 21998), (181, 22142), (187, 22178), (188, 22190), (216, 22316),

Gene: CMP1_47 Start: 45048, Stop: 44038, Start Num: 32
Candidate Starts for CMP1_47:
(Start: 32 @45048 has 2 MA's), (73, 44898), (78, 44880), (88, 44835), (91, 44823), (100, 44781), (121, 44670), (132, 44619), (153, 44532), (159, 44493), (184, 44445), (195, 44367), (197, 44358), (201, 44334), (225, 44268), (229, 44253), (237, 44226), (255, 44160), (275, 44073),

Gene: CN1A_18 Start: 10315, Stop: 11211, Start Num: 32
Candidate Starts for CN1A_18:
(7, 10186), (24, 10297), (Start: 32 @10315 has 2 MA's), (42, 10351), (63, 10411), (72, 10453), (80, 10477), (103, 10564), (109, 10576), (114, 10603), (118, 10636), (135, 10720), (136, 10723), (147, 10768), (148, 10771), (152, 10786), (165, 10837), (170, 10846), (187, 10882), (199, 10963), (211, 10990), (229, 11047), (234, 11065), (248, 11113), (250, 11119), (268, 11191),

Gene: CallinAllBarbz_24 Start: 20698, Stop: 21528, Start Num: 58
Candidate Starts for CallinAllBarbz_24:
(Start: 58 @20698 has 100 MA's), (84, 20803), (85, 20806), (99, 20881), (101, 20887), (127, 21025), (150, 21100), (198, 21286), (200, 21292), (206, 21316), (215, 21346), (235, 21403),

Gene: CanFranMach_29 Start: 21544, Stop: 22419, Start Num: 50
Candidate Starts for CanFranMach_29:
(Start: 50 @21544 has 69 MA's), (79, 21643), (93, 21703), (120, 21847), (125, 21874), (141, 21943), (168, 22045), (181, 22087), (187, 22123), (188, 22135),

Gene: Cappuccino_26 Start: 20061, Stop: 20897, Start Num: 58

Candidate Starts for Cappuccino_26:
(Start: 58 @20061 has 100 MA's), (79, 20142), (84, 20160), (116, 20322), (121, 20355), (129, 20394), (141, 20436), (190, 20592), (200, 20649), (205, 20670), (206, 20673), (226, 20730), (235, 20763),

Gene: Caron_25 Start: 20308, Stop: 21123, Start Num: 58
Candidate Starts for Caron_25:
(Start: 58 @20308 has 100 MA's), (102, 20497), (110, 20527), (121, 20605), (125, 20623), (150, 20707), (184, 20791), (206, 20923), (226, 20980), (246, 21043), (249, 21055),

Gene: Casablancas_75 Start: 42483, Stop: 41623, Start Num: 44
Candidate Starts for Casablancas_75:
(Start: 44 @42483 has 30 MA's), (83, 42366), (103, 42270), (132, 42114), (155, 42030), (189, 41922), (217, 41811), (222, 41796), (229, 41775), (247, 41718),

Gene: Cashington_28 Start: 20885, Stop: 21757, Start Num: 50
Candidate Starts for Cashington_28:
(Start: 50 @20885 has 69 MA's), (93, 21047), (132, 21254), (133, 21257), (141, 21287), (160, 21362), (181, 21431), (187, 21467), (188, 21479), (216, 21605),

Gene: Cassia_26 Start: 21909, Stop: 22739, Start Num: 58
Candidate Starts for Cassia_26:
(Start: 58 @21909 has 100 MA's), (Start: 64 @21924 has 4 MA's), (84, 22014), (95, 22071), (99, 22092), (101, 22098), (111, 22134), (121, 22209), (188, 22434), (200, 22503),

Gene: Cassita_75 Start: 44392, Stop: 43580, Start Num: 65
Candidate Starts for Cassita_75:
(Start: 65 @44392 has 2 MA's), (67, 44374), (72, 44359), (80, 44335), (102, 44248), (110, 44224), (113, 44206), (115, 44200), (132, 44098), (133, 44095), (137, 44080), (152, 44032), (184, 43966), (187, 43942), (194, 43891), (196, 43885), (230, 43756), (231, 43753), (264, 43630), (270, 43606),

Gene: Celaena_26 Start: 22171, Stop: 23061, Start Num: 50
Candidate Starts for Celaena_26:
(Start: 50 @22171 has 69 MA's), (79, 22273), (120, 22477), (133, 22543), (181, 22717), (187, 22753), (188, 22765), (206, 22858), (208, 22867), (216, 22891),

Gene: Cen1621_25 Start: 19802, Stop: 20638, Start Num: 58
Candidate Starts for Cen1621_25:
(Start: 45 @19769 has 2 MA's), (Start: 58 @19802 has 100 MA's), (82, 19898), (84, 19904), (92, 19943), (101, 19988), (125, 20117), (150, 20201), (208, 20426), (228, 20483),

Gene: ChiliPepper_26 Start: 21822, Stop: 22757, Start Num: 50
Candidate Starts for ChiliPepper_26:
(Start: 50 @21822 has 69 MA's), (79, 21924), (93, 21984), (120, 22128), (125, 22155), (181, 22368), (188, 22416), (208, 22518), (274, 22749),

Gene: Clayda5_26 Start: 19296, Stop: 20177, Start Num: 53
Candidate Starts for Clayda5_26:
(Start: 53 @19296 has 11 MA's), (Start: 64 @19326 has 4 MA's), (93, 19455), (112, 19539), (120, 19599), (125, 19626), (133, 19665), (181, 19848), (187, 19884), (216, 20022), (228, 20055), (253, 20139),

Gene: CliffHanger_30 Start: 20568, Stop: 21461, Start Num: 48
Candidate Starts for CliffHanger_30:

(Start: 48 @20568 has 4 MA's), (79, 20667), (93, 20727), (123, 20886), (125, 20898), (132, 20934), (194, 21198), (233, 21333), (265, 21450),

Gene: Coltrane_25 Start: 19309, Stop: 20190, Start Num: 53
Candidate Starts for Coltrane_25:
(Start: 53 @19309 has 11 MA's), (Start: 64 @19339 has 4 MA's), (93, 19468), (108, 19537), (112, 19552), (120, 19612), (125, 19639), (133, 19678), (181, 19861), (187, 19897), (216, 20035), (228, 20068), (253, 20152),

Gene: Community_27 Start: 23698, Stop: 24531, Start Num: 58
Candidate Starts for Community_27:
(Start: 58 @23698 has 100 MA's), (84, 23803), (85, 23806), (99, 23881), (101, 23887), (121, 23998), (150, 24100), (200, 24292), (206, 24316), (256, 24478), (267, 24520),

Gene: Crewmate_29 Start: 22203, Stop: 23036, Start Num: 58
Candidate Starts for Crewmate_29:
(Start: 45 @22170 has 2 MA's), (Start: 58 @22203 has 100 MA's), (Start: 64 @22218 has 4 MA's), (84, 22308), (98, 22383), (101, 22392), (108, 22422), (121, 22506), (200, 22800), (206, 22824),

Gene: CroZenni_29 Start: 21434, Stop: 22306, Start Num: 50
Candidate Starts for CroZenni_29:
(Start: 50 @21434 has 69 MA's), (93, 21596), (132, 21803), (133, 21806), (141, 21836), (187, 22016), (188, 22028), (216, 22154),

Gene: CupcakePrincess_29 Start: 21556, Stop: 22434, Start Num: 50
Candidate Starts for CupcakePrincess_29:
(Start: 50 @21556 has 69 MA's), (93, 21718), (132, 21925), (133, 21928), (141, 21958), (168, 22060), (181, 22102), (187, 22138), (188, 22150), (216, 22276),

Gene: Cyan_26 Start: 21540, Stop: 22367, Start Num: 58
Candidate Starts for Cyan_26:
(Start: 58 @21540 has 100 MA's), (84, 21645), (85, 21648), (99, 21723), (101, 21729), (121, 21840), (127, 21867), (150, 21942), (200, 22134), (206, 22158),

Gene: DejaVu_71 Start: 42873, Stop: 42037, Start Num: 44
Candidate Starts for DejaVu_71:
(Start: 44 @42873 has 30 MA's), (83, 42759), (90, 42723), (103, 42666), (107, 42648), (132, 42510), (138, 42486), (155, 42426), (173, 42366), (189, 42318), (192, 42291), (197, 42273), (217, 42207), (221, 42195), (227, 42180), (240, 42138), (247, 42111),

Gene: Deschain_75 Start: 43147, Stop: 42287, Start Num: 44
Candidate Starts for Deschain_75:
(Start: 44 @43147 has 30 MA's), (83, 43030), (103, 42934), (132, 42778), (155, 42694), (189, 42586), (217, 42475), (222, 42460), (229, 42439), (247, 42382),

Gene: DickRichards_29 Start: 21925, Stop: 22797, Start Num: 50
Candidate Starts for DickRichards_29:
(Start: 50 @21925 has 69 MA's), (93, 22087), (132, 22294), (133, 22297), (141, 22327), (181, 22471), (187, 22507), (188, 22519), (216, 22645),

Gene: Didgeridoo_30 Start: 21590, Stop: 22465, Start Num: 50
Candidate Starts for Didgeridoo_30:

(Start: 50 @21590 has 69 MA's), (132, 21956), (133, 21959), (141, 21989), (168, 22091), (181, 22133), (187, 22169), (188, 22181), (216, 22307),

Gene: DillyDally_42 Start: 27875, Stop: 28651, Start Num: 68
Candidate Starts for DillyDally_42:
(31, 27755), (35, 27767), (Start: 61 @27848 has 2 MA's), (Start: 68 @27875 has 1 MA's), (89, 27959), (96, 27995), (126, 28160), (133, 28190), (142, 28226), (156, 28268), (162, 28298), (183, 28334), (195, 28415), (239, 28535),

Gene: DirtyBubble_28 Start: 21790, Stop: 22716, Start Num: 50
Candidate Starts for DirtyBubble_28:
(Start: 50 @21790 has 69 MA's), (70, 21871), (93, 21955), (116, 22075), (141, 22195), (167, 22294), (181, 22339), (188, 22387), (271, 22705), (272, 22708),

Gene: Dismas_26 Start: 21810, Stop: 22745, Start Num: 50
Candidate Starts for Dismas_26:
(Start: 50 @21810 has 69 MA's), (79, 21912), (93, 21972), (120, 22116), (125, 22143), (181, 22356), (188, 22404), (208, 22506), (274, 22737),

Gene: Divya_43 Start: 31105, Stop: 31944, Start Num: 47
Candidate Starts for Divya_43:
(Start: 47 @31105 has 6 MA's), (Start: 61 @31144 has 2 MA's), (107, 31345), (189, 31666), (195, 31702), (208, 31744), (213, 31756), (244, 31837), (259, 31909), (266, 31927),

Gene: Donkey_26 Start: 20061, Stop: 20897, Start Num: 58
Candidate Starts for Donkey_26:
(Start: 58 @20061 has 100 MA's), (79, 20142), (84, 20160), (116, 20322), (121, 20355), (129, 20394), (141, 20436), (190, 20592), (200, 20649), (205, 20670), (206, 20673), (226, 20730), (235, 20763),

Gene: Doobus_28 Start: 21201, Stop: 22079, Start Num: 50
Candidate Starts for Doobus_28:
(Start: 50 @21201 has 69 MA's), (93, 21363), (132, 21570), (133, 21573), (141, 21603), (160, 21678), (181, 21747), (187, 21783), (188, 21795),

Gene: DrManhattan_25 Start: 19880, Stop: 20719, Start Num: 58
Candidate Starts for DrManhattan_25:
(40, 19832), (Start: 58 @19880 has 100 MA's), (77, 19958), (84, 19985), (85, 19988), (101, 20069), (108, 20099), (121, 20183), (150, 20285), (198, 20471), (200, 20477),

Gene: DrSierra_26 Start: 20561, Stop: 21397, Start Num: 58
Candidate Starts for DrSierra_26:
(Start: 44 @20522 has 30 MA's), (Start: 58 @20561 has 100 MA's), (75, 20633), (77, 20639), (79, 20648), (84, 20666), (101, 20750), (108, 20780), (121, 20864), (133, 20915), (150, 20966), (200, 21158), (206, 21182), (226, 21239),

Gene: Dubu_23 Start: 19866, Stop: 20717, Start Num: 60
Candidate Starts for Dubu_23:
(Start: 60 @19866 has 13 MA's), (84, 19965), (85, 19968), (92, 20007), (101, 20052), (122, 20166), (130, 20205), (141, 20244), (151, 20274), (164, 20334), (183, 20397), (188, 20436), (190, 20448), (193, 20472), (200, 20505), (219, 20568), (254, 20685),

Gene: DustyDino_78 Start: 43706, Stop: 42846, Start Num: 44
Candidate Starts for DustyDino_78:

(Start: 44 @43706 has 30 MA's), (83, 43589), (103, 43493), (132, 43337), (155, 43253), (189, 43145), (217, 43034), (222, 43019), (229, 42998), (247, 42941),

Gene: Eden_25 Start: 19510, Stop: 20370, Start Num: 53
Candidate Starts for Eden_25:
(Start: 53 @19510 has 11 MA's), (93, 19666), (116, 19786), (132, 19873), (160, 19981), (188, 20098), (194, 20137), (206, 20191), (216, 20224), (219, 20230), (249, 20326),

Gene: Elezi_28 Start: 23618, Stop: 24448, Start Num: 58
Candidate Starts for Elezi_28:
(Start: 58 @23618 has 100 MA's), (84, 23723), (99, 23801), (101, 23807), (121, 23918), (133, 23969), (150, 24020), (200, 24212), (206, 24236),

Gene: Elfy_25 Start: 20830, Stop: 21648, Start Num: 58
Candidate Starts for Elfy_25:
(Start: 58 @20830 has 100 MA's), (Start: 64 @20845 has 4 MA's), (84, 20935), (85, 20938), (95, 20992), (101, 21019), (108, 21046), (125, 21148), (127, 21157), (138, 21202), (150, 21232), (184, 21316), (198, 21418), (200, 21424), (206, 21448), (242, 21556), (246, 21571),

Gene: Elva_29 Start: 21782, Stop: 22714, Start Num: 50
Candidate Starts for Elva_29:
(16, 21662), (20, 21689), (Start: 50 @21782 has 69 MA's), (79, 21887), (93, 21947), (95, 21962), (116, 22067), (141, 22187), (160, 22262), (179, 22325), (181, 22331), (188, 22379), (208, 22481), (216, 22505), (271, 22700), (272, 22703),

Gene: Emotion_28 Start: 22403, Stop: 23242, Start Num: 58
Candidate Starts for Emotion_28:
(Start: 45 @22367 has 2 MA's), (Start: 58 @22403 has 100 MA's), (84, 22508), (85, 22511), (101, 22592), (121, 22712), (139, 22787), (207, 23033), (229, 23099), (232, 23111), (246, 23156),

Gene: Eraser_28 Start: 23624, Stop: 24454, Start Num: 58
Candidate Starts for Eraser_28:
(Start: 58 @23624 has 100 MA's), (84, 23729), (99, 23807), (101, 23813), (121, 23924), (133, 23975), (150, 24026), (200, 24218), (206, 24242),

Gene: Erenyeager_75 Start: 42798, Stop: 41938, Start Num: 44
Candidate Starts for Erenyeager_75:
(Start: 44 @42798 has 30 MA's), (83, 42681), (103, 42585), (132, 42429), (155, 42345), (189, 42237), (217, 42126), (222, 42111), (229, 42090), (247, 42033),

Gene: Eula_29 Start: 21517, Stop: 22395, Start Num: 50
Candidate Starts for Eula_29:
(Start: 50 @21517 has 69 MA's), (93, 21679), (132, 21886), (133, 21889), (141, 21919), (168, 22021), (181, 22063), (187, 22099), (188, 22111), (216, 22237),

Gene: Euratis_24 Start: 19908, Stop: 20756, Start Num: 60
Candidate Starts for Euratis_24:
(Start: 60 @19908 has 13 MA's), (79, 19989), (84, 20007), (92, 20049), (95, 20067), (101, 20094), (122, 20208), (133, 20256), (141, 20286), (158, 20358), (162, 20370), (183, 20430), (195, 20511), (200, 20541), (226, 20622), (256, 20727),

Gene: Exile_26 Start: 23786, Stop: 24622, Start Num: 58
Candidate Starts for Exile_26:

(Start: 58 @23786 has 100 MA's), (69, 23837), (84, 23891), (85, 23894), (99, 23969), (101, 23975), (121, 24086), (140, 24164), (198, 24374), (200, 24380), (206, 24404), (226, 24461), (232, 24482), (235, 24491), (242, 24512),

Gene: Finalfrontier_29 Start: 21954, Stop: 22829, Start Num: 50
Candidate Starts for Finalfrontier_29:
(Start: 50 @21954 has 69 MA's), (93, 22113), (132, 22320), (133, 22323), (141, 22353), (168, 22455), (181, 22497), (188, 22545), (216, 22671),

Gene: FiveHead_31 Start: 21500, Stop: 22405, Start Num: 37
Candidate Starts for FiveHead_31:
(19, 21452), (Start: 37 @21500 has 1 MA's), (Start: 58 @21569 has 100 MA's), (84, 21674), (85, 21677), (95, 21731), (101, 21758), (121, 21869), (144, 21965), (206, 22187), (207, 22190), (228, 22253), (232, 22265),

Gene: FlameThrower_26 Start: 21657, Stop: 22547, Start Num: 50
Candidate Starts for FlameThrower_26:
(Start: 50 @21657 has 69 MA's), (79, 21759), (120, 21963), (133, 22029), (181, 22203), (187, 22239), (188, 22251), (206, 22344), (208, 22353), (216, 22377),

Gene: Floof_26 Start: 21144, Stop: 22037, Start Num: 45
Candidate Starts for Floof_26:
(Start: 45 @21144 has 2 MA's), (51, 21162), (Start: 58 @21183 has 100 MA's), (69, 21234), (102, 21372), (110, 21402), (121, 21480), (140, 21564), (150, 21588), (195, 21753), (226, 21861), (228, 21870), (245, 21921), (258, 21966), (269, 22017),

Gene: Flutur_26 Start: 21771, Stop: 22598, Start Num: 58
Candidate Starts for Flutur_26:
(Start: 58 @21771 has 100 MA's), (84, 21876), (85, 21879), (99, 21954), (101, 21960), (121, 22071), (127, 22098), (150, 22173), (200, 22365), (206, 22389),

Gene: Forester_26 Start: 22852, Stop: 23688, Start Num: 58
Candidate Starts for Forester_26:
(51, 22831), (Start: 58 @22852 has 100 MA's), (69, 22903), (93, 22996), (97, 23026), (102, 23041), (110, 23071), (121, 23149), (140, 23233), (150, 23257), (195, 23422), (226, 23530), (228, 23539), (258, 23635),

Gene: Fork_70 Start: 42453, Stop: 41593, Start Num: 44
Candidate Starts for Fork_70:
(Start: 44 @42453 has 30 MA's), (83, 42336), (103, 42240), (132, 42084), (155, 42000), (189, 41892), (217, 41781), (222, 41766), (229, 41745), (247, 41688),

Gene: Franklin22_26 Start: 19660, Stop: 20520, Start Num: 53
Candidate Starts for Franklin22_26:
(Start: 53 @19660 has 11 MA's), (93, 19816), (125, 19987), (131, 20020), (132, 20023), (141, 20056), (167, 20155), (181, 20200), (188, 20248), (194, 20287), (206, 20341), (216, 20374), (219, 20380), (249, 20476),

Gene: Frokostdame_57 Start: 38508, Stop: 39326, Start Num: 58
Candidate Starts for Frokostdame_57:
(4, 38253), (6, 38289), (Start: 58 @38508 has 100 MA's), (154, 38919), (185, 39009), (200, 39108), (212, 39141),

Gene: GUPitcher_50 Start: 33598, Stop: 34449, Start Num: 52
Candidate Starts for GUPitcher_50:
(15, 33466), (Start: 52 @33598 has 2 MA's), (79, 33688), (93, 33751), (118, 33883), (127, 33931), (145, 34003), (150, 34006), (158, 34057), (176, 34096), (183, 34099), (212, 34240), (214, 34249), (238, 34333), (244, 34351),

Gene: Gack_25 Start: 19547, Stop: 20410, Start Num: 53
Candidate Starts for Gack_25:
(Start: 53 @19547 has 11 MA's), (93, 19703), (125, 19874), (131, 19907), (132, 19910), (141, 19943), (167, 20042), (181, 20087), (188, 20135), (194, 20174), (206, 20228), (216, 20261), (219, 20267), (249, 20363),

Gene: Gambol_26 Start: 20061, Stop: 20897, Start Num: 58
Candidate Starts for Gambol_26:
(Start: 58 @20061 has 100 MA's), (79, 20142), (84, 20160), (116, 20322), (121, 20355), (129, 20394), (141, 20436), (190, 20592), (200, 20649), (205, 20670), (206, 20673), (226, 20730), (235, 20763),

Gene: GardenState_29 Start: 22154, Stop: 22987, Start Num: 58
Candidate Starts for GardenState_29:
(Start: 58 @22154 has 100 MA's), (92, 22295), (102, 22343), (110, 22373), (116, 22418), (121, 22451), (150, 22559), (206, 22775), (226, 22832), (246, 22895),

Gene: Giorgio_26 Start: 20160, Stop: 20996, Start Num: 58
Candidate Starts for Giorgio_26:
(Start: 44 @20118 has 30 MA's), (Start: 50 @20136 has 69 MA's), (Start: 58 @20160 has 100 MA's), (84, 20259), (116, 20421), (121, 20454), (129, 20493), (190, 20691), (200, 20748), (205, 20769), (206, 20772), (235, 20862),

Gene: GoldDust_34 Start: 30378, Stop: 31184, Start Num: 61
Candidate Starts for GoldDust_34:
(Start: 47 @30339 has 6 MA's), (Start: 61 @30378 has 2 MA's), (85, 30462), (87, 30480), (107, 30579), (108, 30582), (114, 30612), (145, 30762), (213, 30990), (266, 31167),

Gene: Gooberta_34 Start: 30377, Stop: 31183, Start Num: 61
Candidate Starts for Gooberta_34:
(Start: 47 @30338 has 6 MA's), (Start: 61 @30377 has 2 MA's), (85, 30461), (87, 30479), (107, 30578), (108, 30581), (114, 30611), (145, 30761), (213, 30989), (266, 31166),

Gene: Gretchen_27 Start: 22546, Stop: 23382, Start Num: 58
Candidate Starts for Gretchen_27:
(51, 22525), (Start: 58 @22546 has 100 MA's), (69, 22597), (93, 22690), (97, 22720), (102, 22735), (110, 22765), (121, 22843), (140, 22927), (150, 22951), (195, 23116), (226, 23224), (228, 23233), (258, 23329),

Gene: GrimEater_25 Start: 21048, Stop: 21878, Start Num: 58
Candidate Starts for GrimEater_25:
(Start: 58 @21048 has 100 MA's), (75, 21120), (84, 21153), (101, 21237), (121, 21348), (127, 21375), (150, 21450), (188, 21573), (200, 21642), (206, 21666), (242, 21774),

Gene: Grist_29 Start: 21409, Stop: 22278, Start Num: 50
Candidate Starts for Grist_29:
(Start: 50 @21409 has 69 MA's), (93, 21568), (132, 21775), (133, 21778), (141, 21808), (168, 21910), (181, 21952), (188, 22000), (216, 22126),

Gene: Gumpizza_26 Start: 20153, Stop: 20989, Start Num: 58
Candidate Starts for Gumpizza_26:
(Start: 44 @20111 has 30 MA's), (Start: 50 @20129 has 69 MA's), (Start: 58 @20153 has 100 MA's), (84, 20252), (116, 20414), (121, 20447), (129, 20486), (190, 20684), (200, 20741), (205, 20762), (206, 20765), (235, 20855),

Gene: Halsey_26 Start: 20157, Stop: 20993, Start Num: 58
Candidate Starts for Halsey_26:
(Start: 44 @20115 has 30 MA's), (Start: 50 @20133 has 69 MA's), (Start: 58 @20157 has 100 MA's), (84, 20256), (116, 20418), (119, 20439), (121, 20451), (129, 20490), (190, 20688), (200, 20745), (205, 20766), (206, 20769), (235, 20859),

Gene: Heather_24 Start: 19550, Stop: 20422, Start Num: 60
Candidate Starts for Heather_24:
(Start: 60 @19550 has 13 MA's), (76, 19619), (79, 19631), (81, 19640), (84, 19649), (86, 19670), (92, 19691), (98, 19727), (101, 19736), (116, 19814), (117, 19823), (121, 19847), (127, 19907), (129, 19919), (151, 19991), (158, 20033), (161, 20039), (162, 20045), (183, 20105), (188, 20144), (189, 20150), (190, 20156), (194, 20183), (200, 20213), (206, 20237), (256, 20396),

Gene: Hirko_34 Start: 30103, Stop: 30942, Start Num: 47
Candidate Starts for Hirko_34:
(Start: 47 @30103 has 6 MA's), (Start: 61 @30139 has 2 MA's), (85, 30223), (87, 30241), (107, 30340), (108, 30343), (117, 30403), (145, 30523), (162, 30583), (176, 30613), (213, 30751), (230, 30784), (266, 30925),

Gene: HollowPurple_75 Start: 43009, Stop: 42149, Start Num: 44
Candidate Starts for HollowPurple_75:
(Start: 44 @43009 has 30 MA's), (83, 42892), (103, 42796), (132, 42640), (155, 42556), (189, 42448), (217, 42337), (222, 42322), (229, 42301), (247, 42244),

Gene: Honk_25 Start: 19520, Stop: 20347, Start Num: 58
Candidate Starts for Honk_25:
(40, 19475), (54, 19508), (Start: 58 @19520 has 100 MA's), (84, 19622), (101, 19706), (127, 19844), (130, 19859), (150, 19919), (172, 19997), (200, 20111), (208, 20144), (216, 20168),

Gene: Hortus1_68 Start: 43079, Stop: 42243, Start Num: 44
Candidate Starts for Hortus1_68:
(Start: 44 @43079 has 30 MA's), (83, 42965), (85, 42956), (132, 42716), (142, 42677), (155, 42632), (157, 42617), (173, 42572), (189, 42524), (227, 42386), (247, 42317),

Gene: Hubbs_70 Start: 43101, Stop: 42265, Start Num: 44
Candidate Starts for Hubbs_70:
(Start: 44 @43101 has 30 MA's), (83, 42987), (90, 42951), (103, 42894), (107, 42876), (132, 42738), (138, 42714), (155, 42654), (189, 42546), (192, 42519), (197, 42501), (217, 42435), (221, 42423), (227, 42408), (240, 42366), (247, 42339),

Gene: IAmGroot_29 Start: 22818, Stop: 23651, Start Num: 58
Candidate Starts for IAmGroot_29:
(Start: 58 @22818 has 100 MA's), (92, 22959), (102, 23007), (110, 23037), (116, 23082), (121, 23115), (150, 23223), (206, 23439), (226, 23496), (246, 23559),

Gene: IUFootball_26 Start: 22078, Stop: 22905, Start Num: 58

Candidate Starts for IUFootball_26:
(Start: 58 @22078 has 100 MA's), (79, 22162), (84, 22180), (85, 22183), (101, 22264), (198, 22666), (200, 22672), (226, 22753), (228, 22762), (249, 22831), (267, 22894),

Gene: Icarian_30 Start: 22263, Stop: 23189, Start Num: 50
Candidate Starts for Icarian_30:
(9, 22083), (Start: 50 @22263 has 69 MA's), (79, 22368), (93, 22428), (116, 22548), (141, 22668), (181, 22812), (271, 23178), (272, 23181),

Gene: IndyLu_28 Start: 21376, Stop: 22257, Start Num: 50
Candidate Starts for IndyLu_28:
(Start: 50 @21376 has 69 MA's), (93, 21535), (132, 21742), (133, 21745), (141, 21775), (168, 21877), (181, 21919), (187, 21955), (188, 21967), (216, 22093),

Gene: Issa7_73 Start: 42460, Stop: 41600, Start Num: 44
Candidate Starts for Issa7_73:
(Start: 44 @42460 has 30 MA's), (83, 42343), (103, 42247), (132, 42091), (155, 42007), (189, 41899), (217, 41788), (222, 41773), (229, 41752), (247, 41695),

Gene: Iter_26 Start: 21460, Stop: 22293, Start Num: 58
Candidate Starts for Iter_26:
(Start: 58 @21460 has 100 MA's), (84, 21565), (85, 21568), (99, 21643), (101, 21649), (121, 21760), (133, 21811), (200, 22054), (206, 22078),

Gene: IttyBittyPiggy_26 Start: 21487, Stop: 22314, Start Num: 58
Candidate Starts for IttyBittyPiggy_26:
(Start: 58 @21487 has 100 MA's), (Start: 64 @21502 has 4 MA's), (77, 21565), (79, 21574), (84, 21592), (99, 21670), (101, 21676), (111, 21712), (121, 21787), (200, 22081),

Gene: Jabb_29 Start: 21556, Stop: 22434, Start Num: 50
Candidate Starts for Jabb_29:
(Start: 50 @21556 has 69 MA's), (93, 21718), (132, 21925), (133, 21928), (141, 21958), (168, 22060), (181, 22102), (187, 22138), (188, 22150), (216, 22276),

Gene: Jacko_71 Start: 42128, Stop: 41289, Start Num: 44
Candidate Starts for Jacko_71:
(Start: 44 @42128 has 30 MA's), (83, 42014), (102, 41921), (103, 41918), (107, 41900), (108, 41897), (132, 41762), (138, 41738), (142, 41723), (155, 41678), (184, 41612), (189, 41570), (210, 41483), (221, 41447), (227, 41432), (240, 41390), (243, 41384), (247, 41363), (261, 41297),

Gene: Janeemi_28 Start: 23727, Stop: 24560, Start Num: 58
Candidate Starts for Janeemi_28:
(43, 23688), (Start: 58 @23727 has 100 MA's), (77, 23805), (79, 23814), (84, 23832), (85, 23835), (99, 23910), (101, 23916), (121, 24027), (150, 24129), (200, 24321), (206, 24345), (267, 24549),

Gene: Jankie_25 Start: 21049, Stop: 21879, Start Num: 58
Candidate Starts for Jankie_25:
(Start: 58 @21049 has 100 MA's), (75, 21121), (84, 21154), (101, 21238), (121, 21349), (127, 21376), (150, 21451), (188, 21574), (200, 21643), (206, 21667), (242, 21775),

Gene: JasmineDragon_28 Start: 21466, Stop: 22305, Start Num: 58
Candidate Starts for JasmineDragon_28:

(Start: 37 @21397 has 1 MA's), (Start: 58 @21466 has 100 MA's), (84, 21571), (101, 21655), (121, 21766), (226, 22141),

Gene: Jinkies_39 Start: 31061, Stop: 31891, Start Num: 47
Candidate Starts for Jinkies_39:
(1, 30770), (Start: 47 @31061 has 6 MA's), (Start: 61 @31100 has 2 MA's), (87, 31202), (107, 31298), (118, 31364), (213, 31709), (244, 31790), (259, 31862),

Gene: Joemato_26 Start: 21540, Stop: 22367, Start Num: 58
Candidate Starts for Joemato_26:
(Start: 58 @21540 has 100 MA's), (84, 21645), (85, 21648), (99, 21723), (101, 21729), (121, 21840), (127, 21867), (150, 21942), (200, 22134), (206, 22158),

Gene: JohnDoe_26 Start: 21535, Stop: 22362, Start Num: 58
Candidate Starts for JohnDoe_26:
(Start: 58 @21535 has 100 MA's), (84, 21640), (85, 21643), (99, 21718), (101, 21724), (121, 21835), (127, 21862), (150, 21937), (200, 22129), (206, 22153),

Gene: JohnThicc_28 Start: 21569, Stop: 22405, Start Num: 58
Candidate Starts for JohnThicc_28:
(19, 21452), (Start: 37 @21500 has 1 MA's), (Start: 58 @21569 has 100 MA's), (84, 21674), (85, 21677), (95, 21731), (101, 21758), (121, 21869), (144, 21965), (206, 22187), (207, 22190), (228, 22253), (232, 22265),

Gene: Johnathan_28 Start: 20974, Stop: 21852, Start Num: 50
Candidate Starts for Johnathan_28:
(13, 20812), (Start: 50 @20974 has 69 MA's), (93, 21136), (132, 21343), (133, 21346), (141, 21376), (160, 21451), (181, 21520), (187, 21556), (188, 21568), (216, 21694),

Gene: Jovita_29 Start: 21620, Stop: 22498, Start Num: 50
Candidate Starts for Jovita_29:
(18, 21527), (Start: 50 @21620 has 69 MA's), (93, 21782), (132, 21989), (133, 21992), (141, 22022), (181, 22166), (187, 22202), (188, 22214), (216, 22340),

Gene: Jstan_30 Start: 23618, Stop: 24448, Start Num: 58
Candidate Starts for Jstan_30:
(Start: 58 @23618 has 100 MA's), (84, 23723), (99, 23801), (101, 23807), (121, 23918), (133, 23969), (150, 24020), (200, 24212), (206, 24236),

Gene: JuneStar_27 Start: 23759, Stop: 24592, Start Num: 58
Candidate Starts for JuneStar_27:
(Start: 58 @23759 has 100 MA's), (Start: 64 @23774 has 4 MA's), (84, 23864), (85, 23867), (101, 23948), (111, 23987), (121, 24062), (125, 24080), (200, 24356),

Gene: Kalimba_26 Start: 20061, Stop: 20897, Start Num: 58
Candidate Starts for Kalimba_26:
(Start: 58 @20061 has 100 MA's), (79, 20142), (84, 20160), (116, 20322), (121, 20355), (129, 20394), (141, 20436), (190, 20592), (200, 20649), (205, 20670), (206, 20673), (226, 20730), (235, 20763),

Gene: Kamdara_26 Start: 21809, Stop: 22744, Start Num: 50
Candidate Starts for Kamdara_26:
(Start: 50 @21809 has 69 MA's), (79, 21911), (93, 21971), (120, 22115), (125, 22142), (188, 22403), (208, 22505), (274, 22736),

Gene: Kate33_28 Start: 21408, Stop: 22277, Start Num: 50
Candidate Starts for Kate33_28:
(Start: 50 @21408 has 69 MA's), (93, 21567), (132, 21774), (133, 21777), (141, 21807), (168, 21909), (181, 21951), (188, 21999), (216, 22125),

Gene: Katzastrophic_26 Start: 21775, Stop: 22665, Start Num: 50
Candidate Starts for Katzastrophic_26:
(Start: 50 @21775 has 69 MA's), (79, 21877), (120, 22081), (133, 22147), (181, 22321), (187, 22357), (188, 22369), (206, 22462), (208, 22471), (216, 22495),

Gene: Kaylissa_26 Start: 21530, Stop: 22357, Start Num: 58
Candidate Starts for Kaylissa_26:
(26, 21434), (Start: 58 @21530 has 100 MA's), (84, 21635), (85, 21638), (99, 21713), (101, 21719), (121, 21830), (127, 21857), (150, 21932), (200, 22124), (206, 22148),

Gene: KeAlii_27 Start: 21676, Stop: 22503, Start Num: 58
Candidate Starts for KeAlii_27:
(Start: 45 @21643 has 2 MA's), (Start: 58 @21676 has 100 MA's), (79, 21763), (84, 21781), (101, 21865), (121, 21979), (127, 22006), (150, 22081), (184, 22165), (200, 22273), (206, 22297), (215, 22327),

Gene: Kenzers_29 Start: 21507, Stop: 22385, Start Num: 50
Candidate Starts for Kenzers_29:
(Start: 50 @21507 has 69 MA's), (93, 21669), (132, 21876), (133, 21879), (141, 21909), (181, 22053), (187, 22089), (188, 22101), (216, 22227),

Gene: Kieran_26 Start: 21813, Stop: 22748, Start Num: 50
Candidate Starts for Kieran_26:
(Start: 50 @21813 has 69 MA's), (79, 21915), (93, 21975), (120, 22119), (125, 22146), (181, 22359), (188, 22407), (208, 22509), (274, 22740),

Gene: Kukla_52 Start: 32835, Stop: 33680, Start Num: 52
Candidate Starts for Kukla_52:
(15, 32703), (33, 32772), (Start: 52 @32835 has 2 MA's), (79, 32919), (93, 32982), (127, 33162), (150, 33237), (158, 33288), (176, 33327), (183, 33330), (212, 33471), (214, 33480), (238, 33564), (244, 33582),

Gene: LadyAstra_28 Start: 21503, Stop: 22339, Start Num: 58
Candidate Starts for LadyAstra_28:
(Start: 37 @21434 has 1 MA's), (Start: 58 @21503 has 100 MA's), (84, 21608), (85, 21611), (95, 21665), (101, 21692), (121, 21803), (144, 21899), (206, 22121), (207, 22124), (228, 22187), (232, 22199),

Gene: Lahqtemish_28 Start: 21427, Stop: 22308, Start Num: 50
Candidate Starts for Lahqtemish_28:
(Start: 50 @21427 has 69 MA's), (132, 21793), (133, 21796), (141, 21826), (181, 21970), (187, 22006), (188, 22018), (216, 22144), (238, 22210),

Gene: LeeroyJenkins_79 Start: 45485, Stop: 44679, Start Num: 65
Candidate Starts for LeeroyJenkins_79:
(Start: 65 @45485 has 2 MA's), (67, 45467), (72, 45452), (80, 45428), (106, 45329), (113, 45299), (132, 45191), (133, 45188), (187, 45035), (190, 45011), (194, 44984), (204, 44942), (230, 44855),

(231, 44852), (264, 44729), (270, 44705),

Gene: Lego_26 Start: 21484, Stop: 22311, Start Num: 58
Candidate Starts for Lego_26:
(26, 21388), (Start: 58 @21484 has 100 MA's), (84, 21589), (85, 21592), (99, 21667), (101, 21673), (121, 21784), (127, 21811), (150, 21886), (200, 22078), (206, 22102),

Gene: Liebe_26 Start: 22078, Stop: 22905, Start Num: 58
Candidate Starts for Liebe_26:
(Start: 58 @22078 has 100 MA's), (79, 22162), (84, 22180), (85, 22183), (101, 22264), (198, 22666), (200, 22672), (226, 22753), (228, 22762), (249, 22831), (267, 22894),

Gene: Lifes_72 Start: 42506, Stop: 41583, Start Num: 32
Candidate Starts for Lifes_72:
(Start: 32 @42506 has 2 MA's), (Start: 65 @42395 has 2 MA's), (67, 42377), (72, 42362), (80, 42338), (102, 42251), (113, 42209), (132, 42101), (133, 42098), (137, 42083), (152, 42035), (184, 41969), (187, 41945), (194, 41894), (196, 41888), (230, 41759), (231, 41756), (264, 41633), (270, 41609),

Gene: Lilbooboo_24 Start: 20133, Stop: 20978, Start Num: 60
Candidate Starts for Lilbooboo_24:
(Start: 60 @20133 has 13 MA's), (76, 20202), (79, 20214), (84, 20232), (92, 20274), (98, 20310), (101, 20319), (160, 20586), (161, 20589), (183, 20655), (190, 20706), (191, 20718), (200, 20763), (206, 20787),

Gene: Lilo27_30 Start: 21595, Stop: 22470, Start Num: 50
Candidate Starts for Lilo27_30:
(2, 21325), (21, 21511), (Start: 50 @21595 has 69 MA's), (93, 21757), (132, 21964), (133, 21967), (141, 21997), (181, 22141), (187, 22177), (188, 22189), (216, 22315),

Gene: LimaBean_28 Start: 20970, Stop: 21848, Start Num: 50
Candidate Starts for LimaBean_28:
(Start: 50 @20970 has 69 MA's), (93, 21132), (132, 21339), (133, 21342), (141, 21372), (160, 21447), (181, 21516), (187, 21552), (188, 21564), (216, 21690),

Gene: LisoBros_28 Start: 23348, Stop: 24178, Start Num: 58
Candidate Starts for LisoBros_28:
(Start: 58 @23348 has 100 MA's), (77, 23426), (84, 23453), (92, 23492), (93, 23495), (101, 23537), (127, 23675), (141, 23729), (150, 23750), (172, 23828), (200, 23942), (206, 23966), (226, 24023), (228, 24032), (235, 24053),

Gene: Lizalica_26 Start: 21527, Stop: 22360, Start Num: 58
Candidate Starts for Lizalica_26:
(Start: 58 @21527 has 100 MA's), (79, 21614), (84, 21632), (101, 21716), (121, 21830), (127, 21857), (200, 22124), (206, 22148),

Gene: London_28 Start: 23618, Stop: 24448, Start Num: 58
Candidate Starts for London_28:
(Start: 58 @23618 has 100 MA's), (84, 23723), (99, 23801), (101, 23807), (121, 23918), (133, 23969), (150, 24020), (200, 24212), (206, 24236),

Gene: Loviatar_29 Start: 22647, Stop: 23573, Start Num: 50
Candidate Starts for Loviatar_29:

(Start: 50 @22647 has 69 MA's), (79, 22752), (93, 22812), (116, 22932), (141, 23052), (179, 23190), (181, 23196), (187, 23232), (188, 23244), (216, 23370), (271, 23562), (272, 23565),

Gene: Lupine_68 Start: 42287, Stop: 41451, Start Num: 44
Candidate Starts for Lupine_68:
(Start: 44 @42287 has 30 MA's), (83, 42173), (90, 42137), (103, 42080), (107, 42062), (132, 41924), (138, 41900), (155, 41840), (173, 41780), (189, 41732), (192, 41705), (197, 41687), (217, 41621), (221, 41609), (227, 41594), (240, 41552), (247, 41525),

Gene: Lyell_74 Start: 42652, Stop: 41792, Start Num: 44
Candidate Starts for Lyell_74:
(Start: 44 @42652 has 30 MA's), (83, 42535), (103, 42439), (132, 42283), (155, 42199), (189, 42091), (217, 41980), (222, 41965), (229, 41944), (247, 41887),

Gene: Lynlen_29 Start: 21507, Stop: 22385, Start Num: 50
Candidate Starts for Lynlen_29:
(Start: 50 @21507 has 69 MA's), (93, 21669), (132, 21876), (133, 21879), (141, 21909), (181, 22053), (187, 22089), (188, 22101), (216, 22227),

Gene: MaGuCo_25 Start: 21194, Stop: 22021, Start Num: 58
Candidate Starts for MaGuCo_25:
(Start: 58 @21194 has 100 MA's), (75, 21263), (79, 21278), (84, 21296), (85, 21299), (101, 21380), (198, 21782), (200, 21788), (226, 21869), (228, 21878), (249, 21947),

Gene: Mabodamaca_27 Start: 21572, Stop: 22405, Start Num: 58
Candidate Starts for Mabodamaca_27:
(Start: 58 @21572 has 100 MA's), (92, 21713), (102, 21761), (110, 21791), (121, 21869), (150, 21977), (198, 22163), (226, 22250), (228, 22259),

Gene: Maruru_46 Start: 36167, Stop: 37042, Start Num: 64
Candidate Starts for Maruru_46:
(Start: 64 @36167 has 4 MA's), (104, 36353), (120, 36437), (146, 36545), (148, 36575), (188, 36707), (189, 36713), (195, 36749), (200, 36782), (238, 36920),

Gene: Maureen_26 Start: 22078, Stop: 22905, Start Num: 58
Candidate Starts for Maureen_26:
(Start: 58 @22078 has 100 MA's), (79, 22162), (84, 22180), (85, 22183), (101, 22264), (198, 22666), (200, 22672), (226, 22753), (228, 22762), (249, 22831), (267, 22894),

Gene: Michkear_29 Start: 23095, Stop: 23925, Start Num: 58
Candidate Starts for Michkear_29:
(Start: 58 @23095 has 100 MA's), (Start: 64 @23110 has 4 MA's), (79, 23182), (84, 23200), (92, 23239), (99, 23278), (101, 23284), (127, 23422), (150, 23497), (198, 23683), (200, 23689), (226, 23770), (232, 23791),

Gene: Milomuff_29 Start: 21335, Stop: 22213, Start Num: 50
Candidate Starts for Milomuff_29:
(Start: 50 @21335 has 69 MA's), (93, 21497), (132, 21704), (133, 21707), (141, 21737), (160, 21812), (181, 21881), (187, 21917), (188, 21929),

Gene: MiniMommy_28 Start: 21467, Stop: 22306, Start Num: 58
Candidate Starts for MiniMommy_28:

(Start: 37 @21398 has 1 MA's), (Start: 58 @21467 has 100 MA's), (84, 21572), (101, 21656), (121, 21767), (226, 22142),

Gene: MissSwiss_25 Start: 19949, Stop: 20782, Start Num: 58
Candidate Starts for MissSwiss_25:
(40, 19901), (Start: 58 @19949 has 100 MA's), (77, 20027), (79, 20036), (84, 20054), (101, 20138), (108, 20168), (121, 20252), (133, 20303), (188, 20477), (198, 20540), (200, 20546), (206, 20570),

Gene: Mistmere_69 Start: 41662, Stop: 40784, Start Num: 44
Candidate Starts for Mistmere_69:
(Start: 44 @41662 has 30 MA's), (83, 41542), (90, 41503), (102, 41449), (103, 41446), (107, 41428), (118, 41362), (132, 41290), (142, 41251), (143, 41245), (155, 41206), (184, 41140), (189, 41098), (190, 41092), (197, 41053), (217, 40987), (222, 40975), (229, 40954), (236, 40930), (247, 40897), (257, 40855),

Gene: Moss_26 Start: 20153, Stop: 20989, Start Num: 58
Candidate Starts for Moss_26:
(Start: 44 @20111 has 30 MA's), (Start: 50 @20129 has 69 MA's), (Start: 58 @20153 has 100 MA's), (84, 20252), (116, 20414), (121, 20447), (129, 20486), (190, 20684), (200, 20741), (205, 20762), (206, 20765), (235, 20855),

Gene: MsUbiquitous_29 Start: 21556, Stop: 22434, Start Num: 50
Candidate Starts for MsUbiquitous_29:
(Start: 50 @21556 has 69 MA's), (93, 21718), (132, 21925), (133, 21928), (141, 21958), (168, 22060), (181, 22102), (187, 22138), (188, 22150), (216, 22276),

Gene: Mudpuppy_26 Start: 21535, Stop: 22362, Start Num: 58
Candidate Starts for Mudpuppy_26:
(Start: 58 @21535 has 100 MA's), (77, 21613), (84, 21640), (99, 21718), (101, 21724), (121, 21835), (127, 21862), (150, 21937), (200, 22129),

Gene: Mufasa8_46 Start: 34303, Stop: 35181, Start Num: 64
Candidate Starts for Mufasa8_46:
(36, 34213), (41, 34234), (Start: 64 @34303 has 4 MA's), (87, 34408), (93, 34429), (94, 34441), (99, 34465), (104, 34489), (107, 34495), (146, 34681), (148, 34711), (150, 34714), (152, 34726), (164, 34777), (188, 34843), (189, 34849), (200, 34918), (202, 34924), (238, 35059),

Gene: Musetta_74 Start: 43173, Stop: 42313, Start Num: 44
Candidate Starts for Musetta_74:
(Start: 44 @43173 has 30 MA's), (83, 43056), (103, 42960), (132, 42804), (155, 42720), (189, 42612), (217, 42501), (222, 42486), (229, 42465), (247, 42408),

Gene: Music_34 Start: 30228, Stop: 31064, Start Num: 61
Candidate Starts for Music_34:
(Start: 47 @30189 has 6 MA's), (Start: 61 @30228 has 2 MA's), (85, 30318), (87, 30336), (105, 30426), (107, 30459), (108, 30462), (114, 30492), (145, 30642), (213, 30870), (266, 31047),

Gene: Mysterium_26 Start: 20153, Stop: 20989, Start Num: 58
Candidate Starts for Mysterium_26:
(Start: 44 @20111 has 30 MA's), (Start: 50 @20129 has 69 MA's), (Start: 58 @20153 has 100 MA's), (84, 20252), (116, 20414), (121, 20447), (129, 20486), (190, 20684), (200, 20741), (205, 20762), (206, 20765), (235, 20855),

Gene: Necrophoxinus_76 Start: 43347, Stop: 42487, Start Num: 44
Candidate Starts for Necrophoxinus_76:
(Start: 44 @43347 has 30 MA's), (83, 43230), (103, 43134), (132, 42978), (155, 42894), (189, 42786), (217, 42675), (222, 42660), (229, 42639), (247, 42582),

Gene: Nesbitt_28 Start: 21736, Stop: 22608, Start Num: 62
Candidate Starts for Nesbitt_28:
(Start: 62 @21736 has 2 MA's), (69, 21778), (84, 21829), (92, 21868), (95, 21886), (101, 21913), (102, 21916), (108, 21943), (136, 22123), (138, 22132), (143, 22153), (162, 22225), (177, 22270), (190, 22345), (219, 22465), (226, 22483),

Gene: Nicky22_31 Start: 22149, Stop: 23024, Start Num: 50
Candidate Starts for Nicky22_31:
(Start: 50 @22149 has 69 MA's), (85, 22272), (93, 22311), (132, 22518), (133, 22521), (141, 22551), (168, 22653), (181, 22695), (187, 22731), (188, 22743), (216, 22869),

Gene: Niobe_28 Start: 23618, Stop: 24448, Start Num: 58
Candidate Starts for Niobe_28:
(Start: 58 @23618 has 100 MA's), (84, 23723), (99, 23801), (101, 23807), (121, 23918), (133, 23969), (150, 24020), (200, 24212), (206, 24236),

Gene: Nitro_27 Start: 22945, Stop: 23772, Start Num: 58
Candidate Starts for Nitro_27:
(Start: 58 @22945 has 100 MA's), (84, 23050), (85, 23053), (99, 23128), (101, 23134), (121, 23245), (150, 23347), (200, 23539), (206, 23563),

Gene: ObiToo_28 Start: 21940, Stop: 22776, Start Num: 58
Candidate Starts for ObiToo_28:
(Start: 45 @21907 has 2 MA's), (Start: 58 @21940 has 100 MA's), (Start: 64 @21955 has 4 MA's), (84, 22045), (98, 22120), (101, 22129), (108, 22159), (121, 22243), (200, 22537), (206, 22561),

Gene: OlinDD_68 Start: 43078, Stop: 42242, Start Num: 44
Candidate Starts for OlinDD_68:
(Start: 44 @43078 has 30 MA's), (83, 42964), (85, 42955), (132, 42715), (142, 42676), (155, 42631), (157, 42616), (173, 42571), (189, 42523), (227, 42385), (247, 42316),

Gene: Olliecat_29 Start: 20886, Stop: 21788, Start Num: 50
Candidate Starts for Olliecat_29:
(8, 20694), (23, 20802), (Start: 39 @20850 has 2 MA's), (Start: 48 @20880 has 4 MA's), (Start: 50 @20886 has 69 MA's), (70, 20970), (93, 21054), (108, 21123), (120, 21198), (125, 21225), (132, 21261), (133, 21264), (138, 21285), (162, 21372), (168, 21396), (169, 21399), (179, 21432), (187, 21474), (198, 21549), (205, 21576), (206, 21579), (216, 21612), (249, 21714), (263, 21774),

Gene: Origami_28 Start: 21503, Stop: 22339, Start Num: 58
Candidate Starts for Origami_28:
(Start: 37 @21434 has 1 MA's), (Start: 58 @21503 has 100 MA's), (84, 21608), (85, 21611), (95, 21665), (101, 21692), (121, 21803), (144, 21899), (206, 22121), (207, 22124), (228, 22187), (232, 22199),

Gene: Orkz_42 Start: 29227, Stop: 30048, Start Num: 47
Candidate Starts for Orkz_42:
(12, 29071), (Start: 47 @29227 has 6 MA's), (71, 29311), (81, 29335), (107, 29455), (195, 29812), (206, 29845), (213, 29866), (244, 29947),

Gene: PandaPo_25 Start: 19949, Stop: 20782, Start Num: 58
Candidate Starts for PandaPo_25:
(40, 19901), (Start: 58 @19949 has 100 MA's), (77, 20027), (79, 20036), (84, 20054), (101, 20138), (108, 20168), (121, 20252), (133, 20303), (188, 20477), (198, 20540), (200, 20546), (206, 20570),

Gene: PastaFagioli_28 Start: 21412, Stop: 22293, Start Num: 50
Candidate Starts for PastaFagioli_28:
(Start: 50 @21412 has 69 MA's), (132, 21778), (133, 21781), (141, 21811), (181, 21955), (187, 21991), (188, 22003), (216, 22129), (238, 22195),

Gene: Pavlo_69 Start: 42932, Stop: 42096, Start Num: 44
Candidate Starts for Pavlo_69:
(Start: 44 @42932 has 30 MA's), (83, 42818), (90, 42782), (103, 42725), (107, 42707), (132, 42569), (138, 42545), (155, 42485), (173, 42425), (189, 42377), (192, 42350), (197, 42332), (217, 42266), (221, 42254), (227, 42239), (240, 42197), (247, 42170),

Gene: Pecas_29 Start: 21517, Stop: 22395, Start Num: 50
Candidate Starts for Pecas_29:
(Start: 50 @21517 has 69 MA's), (93, 21679), (132, 21886), (133, 21889), (141, 21919), (168, 22021), (181, 22063), (187, 22099), (188, 22111), (216, 22237),

Gene: Percival_27 Start: 22377, Stop: 23213, Start Num: 58
Candidate Starts for Percival_27:
(51, 22356), (Start: 58 @22377 has 100 MA's), (69, 22428), (93, 22521), (97, 22551), (102, 22566), (110, 22596), (121, 22674), (140, 22758), (150, 22782), (195, 22947), (226, 23055), (228, 23064), (258, 23160),

Gene: PetriParty_54 Start: 33073, Stop: 33924, Start Num: 52
Candidate Starts for PetriParty_54:
(15, 32941), (Start: 52 @33073 has 2 MA's), (79, 33163), (93, 33226), (127, 33406), (150, 33481), (158, 33532), (176, 33571), (183, 33574), (208, 33706), (212, 33715), (214, 33724), (238, 33808), (244, 33826),

Gene: PhigPhack_30 Start: 21507, Stop: 22379, Start Num: 50
Candidate Starts for PhigPhack_30:
(Start: 50 @21507 has 69 MA's), (93, 21669), (132, 21876), (133, 21879), (141, 21909), (168, 22011), (181, 22053), (187, 22089), (188, 22101), (216, 22227),

Gene: PhillyPhilly_69 Start: 42466, Stop: 41630, Start Num: 44
Candidate Starts for PhillyPhilly_69:
(Start: 44 @42466 has 30 MA's), (83, 42352), (90, 42316), (103, 42259), (107, 42241), (132, 42103), (138, 42079), (155, 42019), (173, 41959), (189, 41911), (192, 41884), (197, 41866), (217, 41800), (221, 41788), (227, 41773), (240, 41731), (247, 41704),

Gene: Phisb_29 Start: 21573, Stop: 22451, Start Num: 50
Candidate Starts for Phisb_29:
(Start: 50 @21573 has 69 MA's), (93, 21735), (132, 21942), (133, 21945), (141, 21975), (168, 22077), (181, 22119), (187, 22155), (188, 22167), (216, 22293),

Gene: Phives_28 Start: 23535, Stop: 24368, Start Num: 58
Candidate Starts for Phives_28:

(Start: 58 @23535 has 100 MA's), (84, 23640), (85, 23643), (99, 23718), (101, 23724), (121, 23835), (127, 23862), (150, 23937), (200, 24129), (206, 24153), (256, 24315), (267, 24357),

Gene: Pioneer3_68 Start: 42900, Stop: 42064, Start Num: 44
Candidate Starts for Pioneer3_68:
(Start: 44 @42900 has 30 MA's), (83, 42786), (85, 42777), (132, 42537), (142, 42498), (155, 42453), (157, 42438), (173, 42393), (189, 42345), (227, 42207), (247, 42138),

Gene: Pixelle_27 Start: 23376, Stop: 24203, Start Num: 58
Candidate Starts for Pixelle_27:
(Start: 52 @23361 has 2 MA's), (Start: 58 @23376 has 100 MA's), (84, 23481), (99, 23559), (101, 23565), (121, 23676), (200, 23970),

Gene: Platte_68 Start: 42871, Stop: 42035, Start Num: 44
Candidate Starts for Platte_68:
(Start: 44 @42871 has 30 MA's), (83, 42757), (85, 42748), (132, 42508), (142, 42469), (155, 42424), (157, 42409), (173, 42364), (189, 42316), (227, 42178), (247, 42109),

Gene: PondAmelia_29 Start: 21829, Stop: 22755, Start Num: 50
Candidate Starts for PondAmelia_29:
(9, 21649), (Start: 50 @21829 has 69 MA's), (70, 21910), (93, 21994), (116, 22114), (141, 22234), (181, 22378), (188, 22426), (271, 22744), (272, 22747),

Gene: Powerpuff_26 Start: 21535, Stop: 22362, Start Num: 58
Candidate Starts for Powerpuff_26:
(Start: 58 @21535 has 100 MA's), (84, 21640), (85, 21643), (99, 21718), (101, 21724), (121, 21835), (127, 21862), (150, 21937), (200, 22129), (206, 22153),

Gene: Pumpkins_26 Start: 22329, Stop: 23159, Start Num: 58
Candidate Starts for Pumpkins_26:
(26, 22233), (Start: 58 @22329 has 100 MA's), (84, 22434), (85, 22437), (99, 22512), (101, 22518), (111, 22554), (121, 22629), (140, 22707), (188, 22854), (200, 22923),

Gene: QMacho_30 Start: 22000, Stop: 22878, Start Num: 50
Candidate Starts for QMacho_30:
(Start: 50 @22000 has 69 MA's), (93, 22162), (132, 22369), (133, 22372), (141, 22402), (168, 22504), (181, 22546), (187, 22582), (188, 22594), (216, 22720),

Gene: Quenya_27 Start: 21668, Stop: 22558, Start Num: 50
Candidate Starts for Quenya_27:
(Start: 50 @21668 has 69 MA's), (79, 21770), (120, 21974), (133, 22040), (181, 22214), (224, 22406),

Gene: Reedo_26 Start: 20112, Stop: 20945, Start Num: 58
Candidate Starts for Reedo_26:
(Start: 58 @20112 has 100 MA's), (69, 20163), (84, 20217), (101, 20301), (108, 20331), (121, 20415), (127, 20442), (150, 20517), (184, 20601), (200, 20709), (206, 20733),

Gene: RemusLoopin_24 Start: 20149, Stop: 20988, Start Num: 60
Candidate Starts for RemusLoopin_24:
(Start: 60 @20149 has 13 MA's), (76, 20218), (79, 20230), (81, 20239), (84, 20248), (86, 20269), (92, 20290), (101, 20335), (116, 20413), (125, 20464), (141, 20527), (151, 20557), (158, 20599), (161, 20605), (162, 20611), (183, 20671), (189, 20716), (190, 20722), (194, 20749), (200, 20779), (220, 20845), (256, 20962),

Gene: RockScotty_26 Start: 20129, Stop: 20965, Start Num: 58
Candidate Starts for RockScotty_26:
(Start: 44 @20087 has 30 MA's), (Start: 50 @20105 has 69 MA's), (Start: 58 @20129 has 100 MA's), (84, 20228), (116, 20390), (121, 20423), (129, 20462), (190, 20660), (200, 20717), (205, 20738), (206, 20741), (235, 20831),

Gene: Rollins_25 Start: 19362, Stop: 20243, Start Num: 53
Candidate Starts for Rollins_25:
(Start: 53 @19362 has 11 MA's), (Start: 64 @19392 has 4 MA's), (93, 19521), (112, 19605), (120, 19665), (125, 19692), (133, 19731), (181, 19914), (187, 19950), (216, 20088), (228, 20121), (253, 20205),

Gene: Roman_72 Start: 43587, Stop: 42751, Start Num: 44
Candidate Starts for Roman_72:
(Start: 44 @43587 has 30 MA's), (83, 43473), (90, 43437), (103, 43380), (107, 43362), (132, 43224), (138, 43200), (155, 43140), (173, 43080), (189, 43032), (192, 43005), (197, 42987), (217, 42921), (221, 42909), (227, 42894), (240, 42852), (247, 42825),

Gene: Rona_26 Start: 21810, Stop: 22745, Start Num: 50
Candidate Starts for Rona_26:
(Start: 50 @21810 has 69 MA's), (79, 21912), (93, 21972), (120, 22116), (125, 22143), (181, 22356), (188, 22404), (208, 22506), (274, 22737),

Gene: Rowa_30 Start: 23093, Stop: 23953, Start Num: 60
Candidate Starts for Rowa_30:
(Start: 60 @23093 has 13 MA's), (79, 23174), (82, 23186), (84, 23192), (92, 23231), (101, 23276), (121, 23387), (122, 23390), (138, 23459), (144, 23483), (180, 23624), (182, 23630), (186, 23660), (189, 23678), (190, 23684), (200, 23741), (205, 23762), (206, 23765), (219, 23804), (223, 23819),

Gene: RunningBrook_76 Start: 43706, Stop: 42846, Start Num: 44
Candidate Starts for RunningBrook_76:
(Start: 44 @43706 has 30 MA's), (83, 43589), (103, 43493), (132, 43337), (155, 43253), (189, 43145), (217, 43034), (222, 43019), (229, 42998), (247, 42941),

Gene: SPB78_49 Start: 33944, Stop: 34774, Start Num: 58
Candidate Starts for SPB78_49:
(3, 33665), (8, 33728), (10, 33740), (13, 33749), (28, 33845), (30, 33851), (Start: 58 @33944 has 100 MA's), (75, 34016), (87, 34067), (118, 34220), (122, 34244), (134, 34292), (142, 34325), (175, 34451), (198, 34568), (206, 34598), (226, 34655),

Gene: Sabourin_26 Start: 20060, Stop: 20896, Start Num: 58
Candidate Starts for Sabourin_26:
(Start: 58 @20060 has 100 MA's), (79, 20141), (84, 20159), (116, 20321), (121, 20354), (129, 20393), (141, 20435), (190, 20591), (200, 20648), (205, 20669), (206, 20672), (226, 20729), (235, 20762),

Gene: Samora_24 Start: 20288, Stop: 21133, Start Num: 60
Candidate Starts for Samora_24:
(Start: 60 @20288 has 13 MA's), (79, 20369), (84, 20387), (92, 20429), (98, 20465), (101, 20474), (143, 20678), (158, 20738), (161, 20744), (183, 20810), (190, 20861), (191, 20873), (200, 20918), (206, 20942), (208, 20951), (256, 21104),

Gene: Samy_34 Start: 26611, Stop: 27414, Start Num: 60

Candidate Starts for Samy_34:
(46, 26575), (Start: 60 @26611 has 13 MA's), (Start: 64 @26620 has 4 MA's), (79, 26692), (84, 26710), (87, 26731), (128, 26944), (129, 26950), (150, 27013), (152, 27025), (164, 27076), (203, 27214), (219, 27268), (226, 27286),

Gene: SanaSana_30 Start: 22297, Stop: 23223, Start Num: 50
Candidate Starts for SanaSana_30:
(9, 22117), (Start: 50 @22297 has 69 MA's), (79, 22402), (93, 22462), (116, 22582), (141, 22702), (181, 22846), (188, 22894), (208, 22996), (216, 23020), (271, 23212), (272, 23215),

Gene: SansAfet_29 Start: 21442, Stop: 22320, Start Num: 50
Candidate Starts for SansAfet_29:
(Start: 50 @21442 has 69 MA's), (93, 21604), (132, 21811), (133, 21814), (141, 21844), (168, 21946), (181, 21988), (187, 22024), (188, 22036), (216, 22162),

Gene: SarBear_29 Start: 21497, Stop: 22372, Start Num: 50
Candidate Starts for SarBear_29:
(Start: 50 @21497 has 69 MA's), (93, 21659), (132, 21866), (133, 21869), (141, 21899), (168, 22001), (181, 22043), (187, 22079), (188, 22091), (216, 22217),

Gene: Saradis_71 Start: 42548, Stop: 41709, Start Num: 44
Candidate Starts for Saradis_71:
(Start: 44 @42548 has 30 MA's), (83, 42434), (90, 42398), (103, 42341), (107, 42323), (132, 42185), (138, 42161), (155, 42101), (189, 41993), (192, 41966), (197, 41948), (227, 41852), (240, 41810), (247, 41783),

Gene: Schaffner_26 Start: 22312, Stop: 23145, Start Num: 58
Candidate Starts for Schaffner_26:
(Start: 58 @22312 has 100 MA's), (Start: 64 @22327 has 4 MA's), (84, 22417), (95, 22474), (101, 22501), (111, 22540), (121, 22615), (125, 22633), (200, 22909),

Gene: Sebastisaurus_24 Start: 19989, Stop: 20828, Start Num: 60
Candidate Starts for Sebastisaurus_24:
(25, 19896), (Start: 60 @19989 has 13 MA's), (76, 20058), (81, 20079), (84, 20088), (86, 20109), (92, 20130), (101, 20175), (116, 20253), (125, 20304), (141, 20367), (151, 20397), (158, 20439), (161, 20445), (162, 20451), (183, 20511), (188, 20550), (190, 20562), (200, 20619),

Gene: ShakeItOph_28 Start: 21397, Stop: 22305, Start Num: 37
Candidate Starts for ShakeItOph_28:
(Start: 37 @21397 has 1 MA's), (Start: 58 @21466 has 100 MA's), (84, 21571), (101, 21655), (121, 21766), (226, 22141),

Gene: Sharkboy_27 Start: 21891, Stop: 22829, Start Num: 50
Candidate Starts for Sharkboy_27:
(Start: 50 @21891 has 69 MA's), (79, 21996), (93, 22056), (120, 22200), (125, 22227), (181, 22440), (188, 22488), (208, 22590),

Gene: Shawty_23 Start: 20354, Stop: 21199, Start Num: 60
Candidate Starts for Shawty_23:
(Start: 60 @20354 has 13 MA's), (79, 20435), (84, 20453), (92, 20495), (101, 20540), (119, 20639), (121, 20651), (127, 20678), (141, 20732), (144, 20747), (158, 20804), (161, 20810), (178, 20861), (183, 20876), (190, 20927), (191, 20939), (200, 20984), (206, 21008), (226, 21065), (254, 21167), (256, 21170),

Gene: Shayna_27 Start: 20808, Stop: 21713, Start Num: 48
Candidate Starts for Shayna_27:
(8, 20631), (Start: 48 @20808 has 4 MA's), (93, 20979), (116, 21099), (125, 21150), (129, 21177), (205, 21501), (207, 21507), (235, 21591), (239, 21606), (265, 21702),

Gene: Shroomer_79 Start: 42943, Stop: 42083, Start Num: 44
Candidate Starts for Shroomer_79:
(Start: 44 @42943 has 30 MA's), (83, 42826), (103, 42730), (132, 42574), (155, 42490), (189, 42382), (217, 42271), (222, 42256), (229, 42235), (247, 42178),

Gene: Simpson_28 Start: 21540, Stop: 22367, Start Num: 58
Candidate Starts for Simpson_28:
(Start: 58 @21540 has 100 MA's), (84, 21645), (85, 21648), (99, 21723), (101, 21729), (121, 21840), (127, 21867), (150, 21942), (200, 22134), (206, 22158),

Gene: SirBeanington_29 Start: 21566, Stop: 22444, Start Num: 50
Candidate Starts for SirBeanington_29:
(Start: 50 @21566 has 69 MA's), (93, 21728), (132, 21935), (133, 21938), (141, 21968), (187, 22148), (188, 22160), (216, 22286),

Gene: Skelbel_29 Start: 23618, Stop: 24448, Start Num: 58
Candidate Starts for Skelbel_29:
(Start: 58 @23618 has 100 MA's), (84, 23723), (99, 23801), (101, 23807), (121, 23918), (133, 23969), (150, 24020), (200, 24212), (206, 24236),

Gene: Skylord_25 Start: 19293, Stop: 20174, Start Num: 53
Candidate Starts for Skylord_25:
(Start: 53 @19293 has 11 MA's), (93, 19452), (112, 19536), (120, 19596), (125, 19623), (133, 19662), (181, 19845), (187, 19881), (216, 20019), (228, 20052), (253, 20136),

Gene: Slay_30 Start: 22145, Stop: 23020, Start Num: 50
Candidate Starts for Slay_30:
(Start: 50 @22145 has 69 MA's), (85, 22268), (93, 22307), (132, 22514), (133, 22517), (141, 22547), (168, 22649), (181, 22691), (187, 22727), (188, 22739), (216, 22865),

Gene: Sleepyhead_51 Start: 34354, Stop: 35169, Start Num: 57
Candidate Starts for Sleepyhead_51:
(Start: 57 @34354 has 1 MA's), (77, 34435), (87, 34486), (101, 34549), (127, 34675), (142, 34735), (151, 34759), (175, 34840), (200, 34960), (209, 34987), (236, 35062),

Gene: Snek_27 Start: 20682, Stop: 21515, Start Num: 58
Candidate Starts for Snek_27:
(22, 20580), (Start: 37 @20616 has 1 MA's), (Start: 58 @20682 has 100 MA's), (84, 20787), (101, 20871), (121, 20985), (127, 21012), (150, 21087), (184, 21171), (198, 21273), (200, 21279), (206, 21303),

Gene: Softsoap_28 Start: 21265, Stop: 22143, Start Num: 50
Candidate Starts for Softsoap_28:
(Start: 50 @21265 has 69 MA's), (93, 21427), (132, 21634), (133, 21637), (141, 21667), (160, 21742), (181, 21811), (187, 21847), (188, 21859), (216, 21985),

Gene: Solea_30 Start: 21335, Stop: 22213, Start Num: 50

Candidate Starts for Solea_30:
(Start: 50 @21335 has 69 MA's), (93, 21497), (132, 21704), (133, 21707), (141, 21737), (160, 21812), (181, 21881), (187, 21917), (188, 21929),

Gene: Solimine_70 Start: 42901, Stop: 42065, Start Num: 44
Candidate Starts for Solimine_70:
(Start: 44 @42901 has 30 MA's), (83, 42787), (90, 42751), (103, 42694), (107, 42676), (132, 42538), (138, 42514), (155, 42454), (173, 42394), (189, 42346), (192, 42319), (197, 42301), (217, 42235), (221, 42223), (227, 42208), (240, 42166), (247, 42139),

Gene: Sonali_46 Start: 36630, Stop: 37502, Start Num: 64
Candidate Starts for Sonali_46:
(Start: 64 @36630 has 4 MA's), (104, 36816), (120, 36900), (146, 37008), (148, 37038), (188, 37170), (189, 37176), (195, 37212), (200, 37245), (238, 37383), (246, 37407),

Gene: Soondubu_26 Start: 23790, Stop: 24626, Start Num: 58
Candidate Starts for Soondubu_26:
(Start: 58 @23790 has 100 MA's), (84, 23895), (85, 23898), (99, 23973), (101, 23979), (121, 24090), (140, 24168), (200, 24384), (206, 24408), (226, 24465), (235, 24495), (242, 24516),

Gene: Sooty_26 Start: 20063, Stop: 20899, Start Num: 58
Candidate Starts for Sooty_26:
(Start: 58 @20063 has 100 MA's), (79, 20144), (84, 20162), (116, 20324), (121, 20357), (129, 20396), (141, 20438), (190, 20594), (200, 20651), (205, 20672), (206, 20675), (226, 20732), (235, 20765),

Gene: SpecialK_26 Start: 20060, Stop: 20896, Start Num: 58
Candidate Starts for SpecialK_26:
(Start: 44 @20018 has 30 MA's), (Start: 50 @20036 has 69 MA's), (Start: 58 @20060 has 100 MA's), (84, 20159), (116, 20321), (121, 20354), (129, 20393), (190, 20591), (200, 20648), (205, 20669), (206, 20672), (235, 20762),

Gene: Squircle_29 Start: 20849, Stop: 21787, Start Num: 39
Candidate Starts for Squircle_29:
(8, 20693), (23, 20801), (Start: 39 @20849 has 2 MA's), (Start: 48 @20879 has 4 MA's), (Start: 50 @20885 has 69 MA's), (70, 20969), (93, 21053), (108, 21122), (120, 21197), (125, 21224), (132, 21260), (133, 21263), (138, 21284), (162, 21371), (168, 21395), (169, 21398), (179, 21431), (187, 21473), (198, 21548), (205, 21575), (206, 21578), (216, 21611), (249, 21713), (263, 21773),

Gene: SteakFry_77 Start: 43009, Stop: 42149, Start Num: 44
Candidate Starts for SteakFry_77:
(Start: 44 @43009 has 30 MA's), (83, 42892), (103, 42796), (132, 42640), (155, 42556), (189, 42448), (217, 42337), (222, 42322), (229, 42301), (247, 42244),

Gene: StevieWelch_75 Start: 42798, Stop: 41938, Start Num: 44
Candidate Starts for StevieWelch_75:
(Start: 44 @42798 has 30 MA's), (83, 42681), (103, 42585), (132, 42429), (155, 42345), (189, 42237), (217, 42126), (222, 42111), (229, 42090), (231, 42084), (247, 42033),

Gene: Stoor_29 Start: 22294, Stop: 23220, Start Num: 50
Candidate Starts for Stoor_29:
(Start: 50 @22294 has 69 MA's), (70, 22375), (93, 22459), (116, 22579), (141, 22699), (167, 22798), (181, 22843), (188, 22891), (208, 22993), (216, 23017), (271, 23209), (272, 23212),

Gene: Stromboli_28 Start: 21831, Stop: 22757, Start Num: 50
Candidate Starts for Stromboli_28:
(Start: 50 @21831 has 69 MA's), (70, 21912), (93, 21996), (116, 22116), (141, 22236), (167, 22335), (181, 22380), (188, 22428), (271, 22746), (272, 22749),

Gene: Stuu_26 Start: 20152, Stop: 20988, Start Num: 58
Candidate Starts for Stuu_26:
(Start: 44 @20110 has 30 MA's), (Start: 50 @20128 has 69 MA's), (Start: 58 @20152 has 100 MA's), (84, 20251), (116, 20413), (121, 20446), (129, 20485), (190, 20683), (200, 20740), (205, 20761), (206, 20764), (235, 20854),

Gene: SuMoo_26 Start: 20527, Stop: 21360, Start Num: 58
Candidate Starts for SuMoo_26:
(Start: 58 @20527 has 100 MA's), (92, 20668), (102, 20716), (110, 20746), (121, 20824), (150, 20932), (198, 21118), (226, 21205), (228, 21214),

Gene: Subaru_28 Start: 23618, Stop: 24448, Start Num: 58
Candidate Starts for Subaru_28:
(Start: 58 @23618 has 100 MA's), (84, 23723), (99, 23801), (101, 23807), (121, 23918), (133, 23969), (150, 24020), (200, 24212), (206, 24236),

Gene: Sue2_28 Start: 22367, Stop: 23227, Start Num: 45
Candidate Starts for Sue2_28:
(Start: 45 @22367 has 2 MA's), (Start: 58 @22397 has 100 MA's), (84, 22502), (101, 22586), (108, 22616), (121, 22700), (133, 22751), (150, 22802), (163, 22862), (200, 22994), (206, 23018), (215, 23048), (242, 23126),

Gene: SunnyD_27 Start: 20850, Stop: 21755, Start Num: 48
Candidate Starts for SunnyD_27:
(8, 20673), (Start: 48 @20850 has 4 MA's), (93, 21021), (116, 21141), (125, 21192), (129, 21219), (205, 21543), (207, 21549), (235, 21633), (239, 21648), (265, 21744),

Gene: SunnyJune_41 Start: 30629, Stop: 31459, Start Num: 47
Candidate Starts for SunnyJune_41:
(11, 30464), (Start: 47 @30629 has 6 MA's), (Start: 61 @30668 has 2 MA's), (87, 30770), (92, 30788), (107, 30866), (118, 30932), (213, 31277), (244, 31358), (259, 31430),

Gene: Sunshine23_47 Start: 36509, Stop: 37384, Start Num: 64
Candidate Starts for Sunshine23_47:
(Start: 64 @36509 has 4 MA's), (Start: 65 @36518 has 2 MA's), (79, 36572), (104, 36695), (120, 36779), (146, 36887), (148, 36917), (188, 37049), (189, 37055), (195, 37091), (200, 37124), (238, 37262),

Gene: SuperHands_26 Start: 22863, Stop: 23699, Start Num: 58
Candidate Starts for SuperHands_26:
(Start: 58 @22863 has 100 MA's), (69, 22914), (93, 23007), (97, 23037), (102, 23052), (110, 23082), (121, 23160), (140, 23244), (150, 23268), (195, 23433), (226, 23541), (228, 23550), (258, 23646),

Gene: Swervy_29 Start: 21497, Stop: 22375, Start Num: 50
Candidate Starts for Swervy_29:
(Start: 50 @21497 has 69 MA's), (93, 21659), (132, 21866), (133, 21869), (141, 21899), (181, 22043), (187, 22079), (188, 22091), (216, 22217),

Gene: TG1_23 Start: 20234, Stop: 21076, Start Num: 60
Candidate Starts for TG1_23:
(34, 20168), (38, 20180), (Start: 60 @20234 has 13 MA's), (Start: 64 @20243 has 4 MA's), (79, 20315), (84, 20333), (92, 20375), (101, 20420), (108, 20447), (127, 20558), (144, 20627), (151, 20642), (162, 20696), (169, 20717), (183, 20756), (190, 20807), (191, 20819), (200, 20864), (206, 20888), (208, 20897), (245, 21008),

Gene: Tallboi_27 Start: 22973, Stop: 23800, Start Num: 58
Candidate Starts for Tallboi_27:
(Start: 58 @22973 has 100 MA's), (84, 23078), (99, 23156), (101, 23162), (121, 23273), (150, 23375), (200, 23567),

Gene: Tandem_68 Start: 42998, Stop: 42162, Start Num: 44
Candidate Starts for Tandem_68:
(Start: 44 @42998 has 30 MA's), (83, 42884), (85, 42875), (132, 42635), (142, 42596), (155, 42551), (157, 42536), (173, 42491), (189, 42443), (227, 42305), (247, 42236),

Gene: Tbone_26 Start: 21559, Stop: 22386, Start Num: 58
Candidate Starts for Tbone_26:
(Start: 58 @21559 has 100 MA's), (77, 21637), (84, 21664), (99, 21742), (101, 21748), (121, 21859), (127, 21886), (150, 21961), (200, 22153), (206, 22177),

Gene: Teagster_29 Start: 21769, Stop: 22674, Start Num: 48
Candidate Starts for Teagster_29:
(8, 21592), (Start: 48 @21769 has 4 MA's), (93, 21940), (116, 22060), (125, 22111), (129, 22138), (205, 22462), (207, 22468), (235, 22552), (239, 22567), (265, 22663),

Gene: TforTroy_27 Start: 22221, Stop: 23054, Start Num: 58
Candidate Starts for TforTroy_27:
(27, 22125), (Start: 58 @22221 has 100 MA's), (79, 22308), (84, 22326), (95, 22383), (101, 22410), (111, 22449), (121, 22524), (125, 22542), (200, 22818), (206, 22842),

Gene: ThursdayNight_27 Start: 21284, Stop: 22108, Start Num: 58
Candidate Starts for ThursdayNight_27:
(Start: 58 @21284 has 100 MA's), (69, 21335), (84, 21386), (85, 21389), (95, 21443), (101, 21470), (121, 21581), (150, 21683), (198, 21869), (200, 21875), (226, 21956), (228, 21965), (246, 22022), (262, 22091),

Gene: Tian_27 Start: 23372, Stop: 24199, Start Num: 58
Candidate Starts for Tian_27:
(Start: 52 @23357 has 2 MA's), (Start: 58 @23372 has 100 MA's), (84, 23477), (99, 23555), (101, 23561), (121, 23672), (200, 23966),

Gene: Tuck_28 Start: 23678, Stop: 24511, Start Num: 58
Candidate Starts for Tuck_28:
(Start: 58 @23678 has 100 MA's), (84, 23783), (85, 23786), (99, 23861), (101, 23867), (121, 23978), (150, 24080), (200, 24272), (206, 24296), (256, 24458), (267, 24500),

Gene: TukTuk_29 Start: 21556, Stop: 22434, Start Num: 50
Candidate Starts for TukTuk_29:
(Start: 50 @21556 has 69 MA's), (93, 21718), (132, 21925), (133, 21928), (141, 21958), (168, 22060), (181, 22102), (187, 22138), (188, 22150), (216, 22276),

Gene: Turab_26 Start: 21447, Stop: 22277, Start Num: 58
Candidate Starts for Turab_26:
(Start: 58 @21447 has 100 MA's), (77, 21525), (84, 21552), (95, 21609), (99, 21630), (101, 21636), (121, 21747), (150, 21849), (200, 22041), (206, 22065),

Gene: Tutumahutu_26 Start: 21534, Stop: 22361, Start Num: 58
Candidate Starts for Tutumahutu_26:
(26, 21438), (Start: 58 @21534 has 100 MA's), (84, 21639), (101, 21723), (121, 21834), (127, 21861), (150, 21936), (200, 22128), (206, 22152),

Gene: Tweety19_27 Start: 20681, Stop: 21514, Start Num: 58
Candidate Starts for Tweety19_27:
(22, 20579), (Start: 37 @20615 has 1 MA's), (Start: 58 @20681 has 100 MA's), (84, 20786), (101, 20870), (121, 20984), (127, 21011), (150, 21086), (184, 21170), (198, 21272), (200, 21278), (206, 21302),

Gene: Uterion_73 Start: 43034, Stop: 42198, Start Num: 44
Candidate Starts for Uterion_73:
(Start: 44 @43034 has 30 MA's), (83, 42920), (90, 42884), (103, 42827), (107, 42809), (132, 42671), (138, 42647), (155, 42587), (173, 42527), (189, 42479), (192, 42452), (197, 42434), (217, 42368), (221, 42356), (227, 42341), (240, 42299), (247, 42272),

Gene: UtzChips_26 Start: 21221, Stop: 22036, Start Num: 58
Candidate Starts for UtzChips_26:
(Start: 58 @21221 has 100 MA's), (97, 21395), (102, 21410), (110, 21440), (121, 21518), (125, 21536), (150, 21620), (184, 21704), (206, 21836), (226, 21893), (246, 21956), (249, 21968),

Gene: VResidence_27 Start: 21676, Stop: 22509, Start Num: 58
Candidate Starts for VResidence_27:
(Start: 58 @21676 has 100 MA's), (84, 21781), (101, 21865), (108, 21895), (121, 21979), (127, 22006), (133, 22030), (150, 22081), (152, 22093), (200, 22273), (206, 22297), (226, 22354),

Gene: VWB_39 Start: 31399, Stop: 32235, Start Num: 58
Candidate Starts for VWB_39:
(Start: 58 @31399 has 100 MA's), (79, 31480), (85, 31504), (87, 31525), (93, 31546), (94, 31558), (116, 31666), (122, 31702), (124, 31711), (152, 31822), (161, 31867), (166, 31888), (187, 31951), (203, 32041), (207, 32059),

Gene: Vash_24 Start: 19933, Stop: 20778, Start Num: 60
Candidate Starts for Vash_24:
(Start: 60 @19933 has 13 MA's), (84, 20032), (92, 20074), (98, 20110), (101, 20119), (127, 20257), (141, 20311), (161, 20389), (162, 20395), (183, 20455), (190, 20506), (191, 20518), (200, 20563), (254, 20746), (256, 20749),

Gene: Vibaki_34 Start: 30213, Stop: 31088, Start Num: 47
Candidate Starts for Vibaki_34:
(Start: 47 @30213 has 6 MA's), (Start: 61 @30252 has 2 MA's), (105, 30450), (107, 30483), (108, 30486), (213, 30894), (266, 31071),

Gene: Vitas_25 Start: 19302, Stop: 20183, Start Num: 53
Candidate Starts for Vitas_25:
(Start: 53 @19302 has 11 MA's), (Start: 64 @19332 has 4 MA's), (93, 19461), (112, 19545), (120, 19605), (125, 19632), (133, 19671), (181, 19854), (216, 20028), (228, 20061), (253, 20145),

Gene: Vitus_35 Start: 28962, Stop: 29801, Start Num: 47
Candidate Starts for Vitus_35:
(Start: 47 @28962 has 6 MA's), (49, 28968), (Start: 61 @29001 has 2 MA's), (74, 29052), (87, 29103), (92, 29121), (107, 29202), (118, 29268), (174, 29469), (183, 29478), (187, 29505), (218, 29619), (244, 29694),

Gene: VroomVroom_28 Start: 21561, Stop: 22400, Start Num: 58
Candidate Starts for VroomVroom_28:
(Start: 37 @21492 has 1 MA's), (Start: 58 @21561 has 100 MA's), (84, 21666), (101, 21750), (121, 21861), (226, 22236),

Gene: WalkingDead_29 Start: 22400, Stop: 23326, Start Num: 50
Candidate Starts for WalkingDead_29:
(9, 22220), (Start: 50 @22400 has 69 MA's), (70, 22481), (93, 22565), (141, 22805), (181, 22949), (188, 22997), (206, 23090), (208, 23099), (271, 23315), (272, 23318),

Gene: Warda_26 Start: 21534, Stop: 22361, Start Num: 58
Candidate Starts for Warda_26:
(Start: 58 @21534 has 100 MA's), (77, 21612), (84, 21639), (99, 21717), (101, 21723), (121, 21834), (127, 21861), (150, 21936), (200, 22128), (206, 22152),

Gene: WaterT_75 Start: 44346, Stop: 43423, Start Num: 32
Candidate Starts for WaterT_75:
(Start: 32 @44346 has 2 MA's), (55, 44268), (Start: 56 @44265 has 1 MA's), (Start: 65 @44235 has 2 MA's), (67, 44217), (110, 44067), (113, 44049), (132, 43941), (133, 43938), (137, 43923), (152, 43875), (163, 43833), (184, 43809), (187, 43785), (190, 43761), (194, 43734), (196, 43728), (230, 43599), (231, 43596), (252, 43527), (264, 43473), (270, 43449),

Gene: Welcome_76 Start: 43158, Stop: 42298, Start Num: 44
Candidate Starts for Welcome_76:
(Start: 44 @43158 has 30 MA's), (83, 43041), (103, 42945), (132, 42789), (155, 42705), (189, 42597), (217, 42486), (222, 42471), (229, 42450), (247, 42393),

Gene: Wildwest_27 Start: 21505, Stop: 22341, Start Num: 58
Candidate Starts for Wildwest_27:
(Start: 44 @21466 has 30 MA's), (Start: 58 @21505 has 100 MA's), (69, 21556), (75, 21577), (77, 21583), (79, 21592), (84, 21610), (101, 21694), (108, 21724), (121, 21808), (127, 21835), (133, 21859), (150, 21910), (200, 22102), (206, 22126), (226, 22183),

Gene: Wolfstar_73 Start: 44392, Stop: 43553, Start Num: 44
Candidate Starts for Wolfstar_73:
(Start: 44 @44392 has 30 MA's), (90, 44239), (102, 44185), (132, 44026), (139, 43999), (149, 43960), (155, 43942), (189, 43834), (196, 43795), (241, 43651), (247, 43627), (261, 43561),

Gene: Yang_26 Start: 21587, Stop: 22423, Start Num: 58
Candidate Starts for Yang_26:
(Start: 58 @21587 has 100 MA's), (Start: 64 @21602 has 4 MA's), (84, 21692), (85, 21695), (101, 21776), (111, 21815), (121, 21890), (200, 22184),

Gene: YesChef_26 Start: 21535, Stop: 22362, Start Num: 58
Candidate Starts for YesChef_26:

(Start: 58 @21535 has 100 MA's), (84, 21640), (85, 21643), (99, 21718), (101, 21724), (121, 21835), (127, 21862), (150, 21937), (200, 22129), (206, 22153),

Gene: Yuma_73 Start: 42667, Stop: 41807, Start Num: 44
Candidate Starts for Yuma_73:
(Start: 44 @42667 has 30 MA's), (83, 42550), (103, 42454), (132, 42298), (155, 42214), (189, 42106), (217, 41995), (222, 41980), (229, 41959), (247, 41902),

Gene: Zeta1847_26 Start: 21229, Stop: 22101, Start Num: 58
Candidate Starts for Zeta1847_26:
(Start: 58 @21229 has 100 MA's), (66, 21259), (75, 21301), (101, 21418), (102, 21421), (103, 21424), (121, 21541), (134, 21595), (141, 21622), (152, 21655), (172, 21721), (194, 21805), (206, 21859), (226, 21916), (235, 21946), (245, 21979),

Gene: phiBT1_1 Start: 20650, Stop: 21495, Start Num: 60
Candidate Starts for phiBT1_1:
(Start: 60 @20650 has 13 MA's), (75, 20716), (84, 20749), (92, 20791), (98, 20827), (101, 20836), (138, 21019), (141, 21028), (143, 21040), (151, 21058), (158, 21100), (161, 21106), (183, 21172), (190, 21223), (200, 21280), (256, 21466),

Gene: phiSASD1_1 Start: 19051, Stop: 19908, Start Num: 59
Candidate Starts for phiSASD1_1:
(59, 19051), (75, 19120), (84, 19153), (92, 19195), (101, 19240), (119, 19339), (121, 19351), (122, 19354), (133, 19402), (140, 19429), (141, 19432), (164, 19522), (183, 19588), (190, 19639), (193, 19663), (200, 19696), (251, 19858), (254, 19876), (256, 19879),