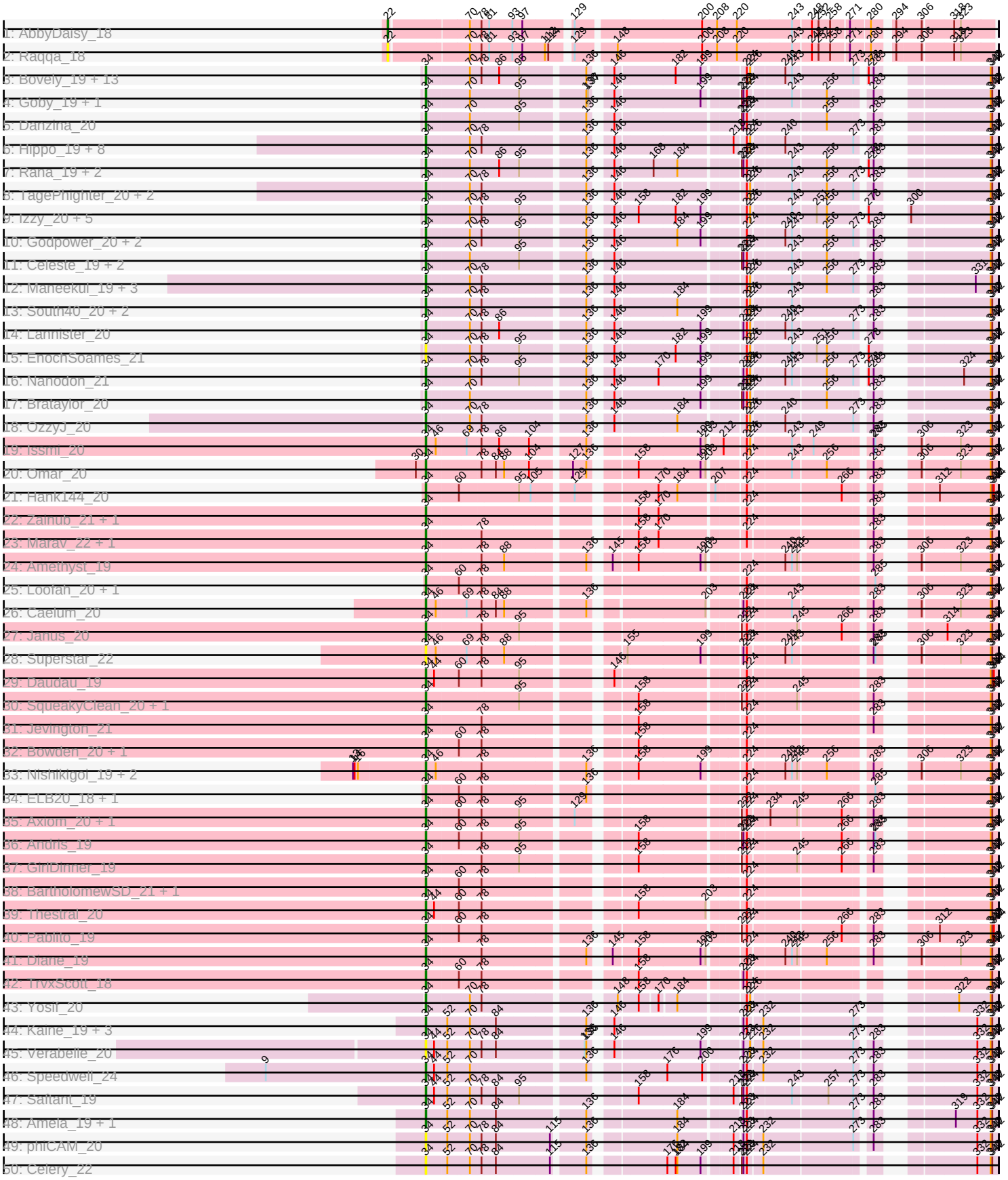
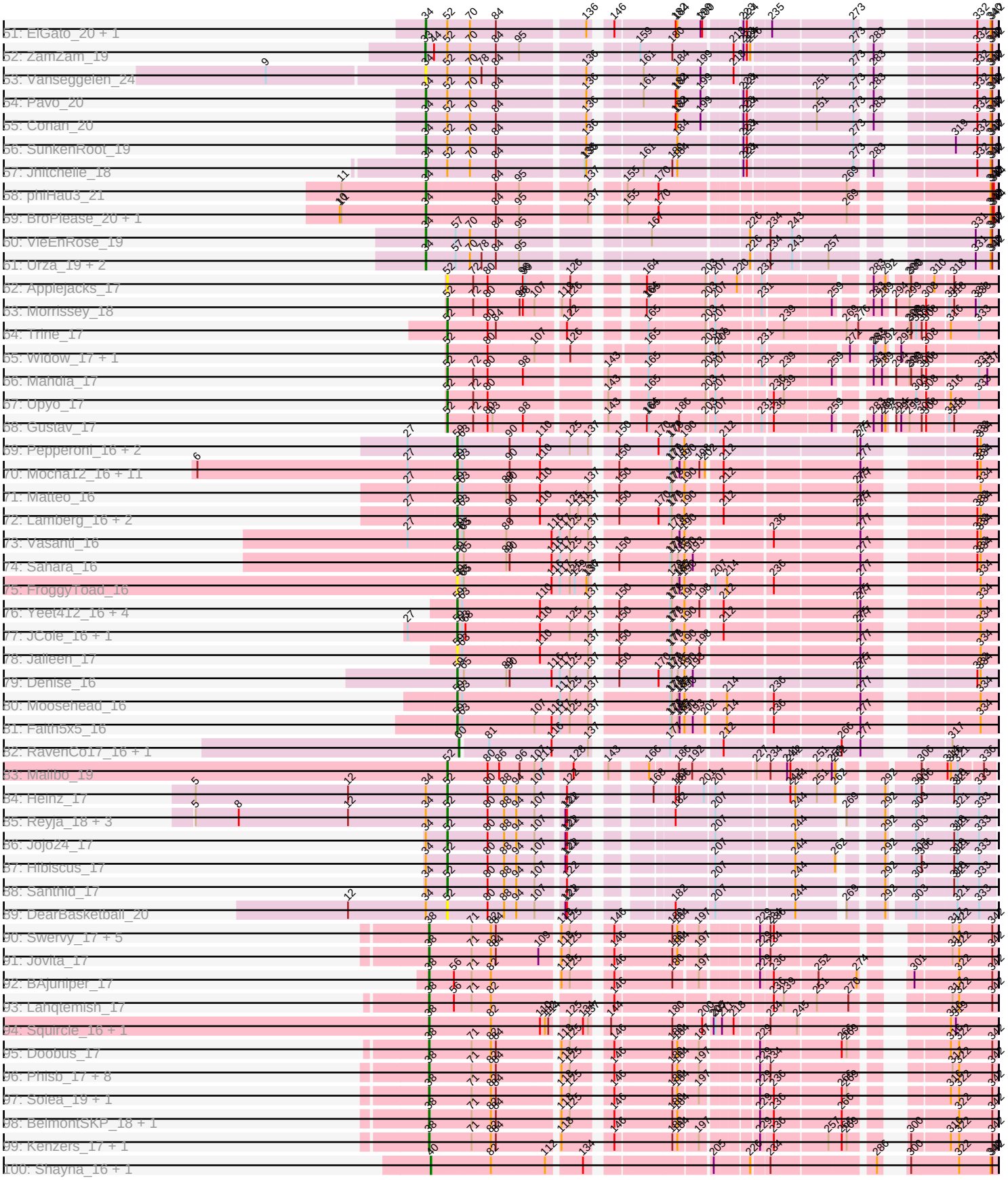
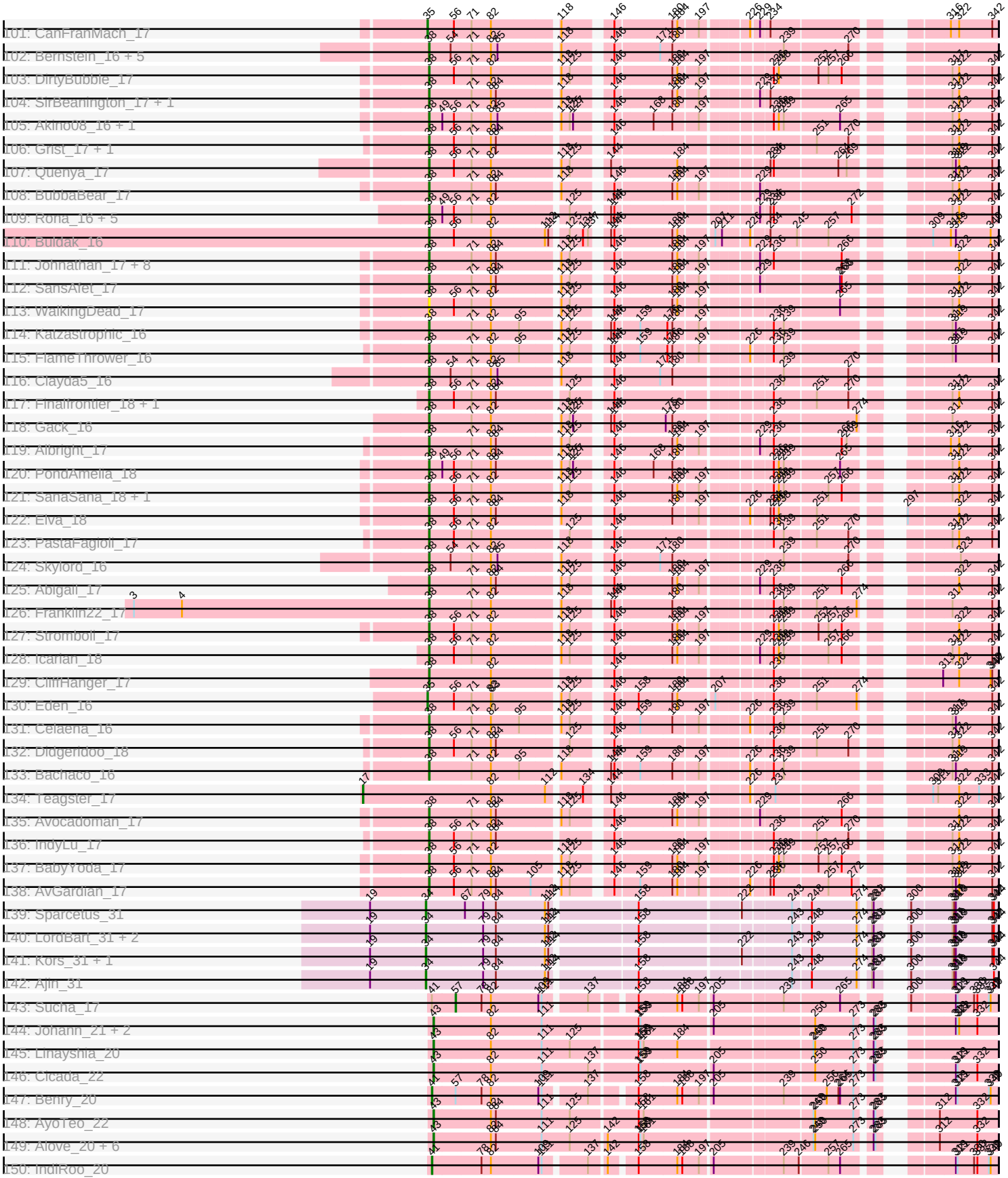
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1: AbbyDaisy_18
2: Raqqa_18
3: Bovely_19 + 13
4: Goby_19 + 1
5: Danzina_20
6: Hippo_19 + 8
7: Rana_19 + 2
8: TagePhighter_20 + 2
9: Izzy_20 + 5
10: Godpower_20 + 2
11: Celeste_19 + 2
12: Maneekui_19 + 3
13: South40_20 + 2
14: Lannister_20
15: EnochSoames_21
16: Nanodon_21
17: Brataylor_20
18: OzzyJ_20
19: Issmi_20
20: Omar_20
21: Hank144_20
22: Zainub_21 + 1
23: Marav_22 + 1
24: Amethyst_19
25: Loofah_20 + 1
26: Caelum_20
27: Janus_20
28: Superstar_22
29: Daudau_19
30: SqueakyClean_20 + 1
31: Jevington_21
32: Bowden_20 + 1
33: Nishikigoi_19 + 2
34: ELB20_18 + 1
35: Axiom_20 + 1
36: Andris_19
37: GinDinner_19
38: BartholomewSD_21 + 1
39: Thestral_20
40: Pablito_19
41: Diane_19
42: TrvxScott_18
43: Yosif_20
44: Kaine_19 + 3
45: Verabelle_20
46: Speedwell_24
47: Saltant_19
48: Amela_19 + 1
49: phiCAM_20
50: Celery_22

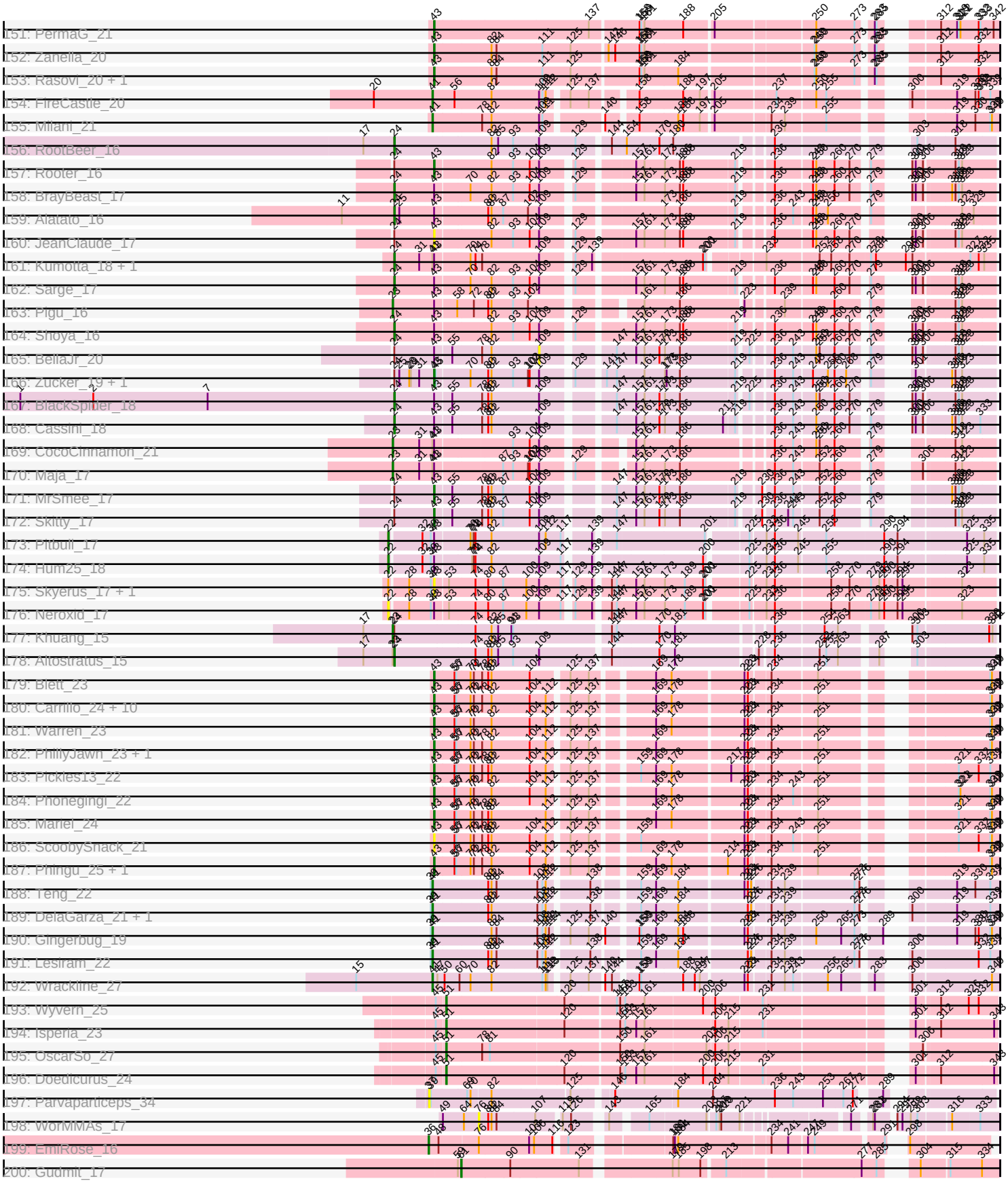
Pham 347130


51: ElGato_20 + 1
52: ZamZam_19
53: Vanseggelen_24
54: Pavo_20
55: Conan_20
56: SunkenRoot_19
57: Jnitchelle_18
58: phiHau3_21
59: BroPlease_20 + 1
60: VieEnRose_19
61: Urza_19 + 2
62: Applejacks_17
63: Morrissey_18
64: Trine_17
65: Widow_17 + 1
66: Mandia_17
67: Upyo_17
68: Gustav_17
69: Pepperoni_16 + 2
70: Mocha12_16 + 11
71: Matteo_16
72: Lamberg_16 + 2
73: Vasanti_16
74: Sahara_16
75: FroggyToad_16
76: Yeet412_16 + 4
77: JCole_16 + 1
78: Jaileen_17
79: Denise_16
80: Moosehead_16
81: Faith5x5_16
82: RavenCo17_16 + 1
83: Malibo_19
84: Heinz_17
85: Reyja_18 + 3
86: Jojo24_17
87: Hibiscus_17
88: Santhid_17
89: DearBasketball_20
90: Swervy_17 + 5
91: Jovita_17
92: BAjuniper_17
93: Lanqtemish_17
94: Squircle_16 + 1
95: Doobus_17
96: Phisb_17 + 8
97: Solea_19 + 1
98: BelmontSKP_18 + 1
99: Kenzers_17 + 1
100: Shayna_16 + 1

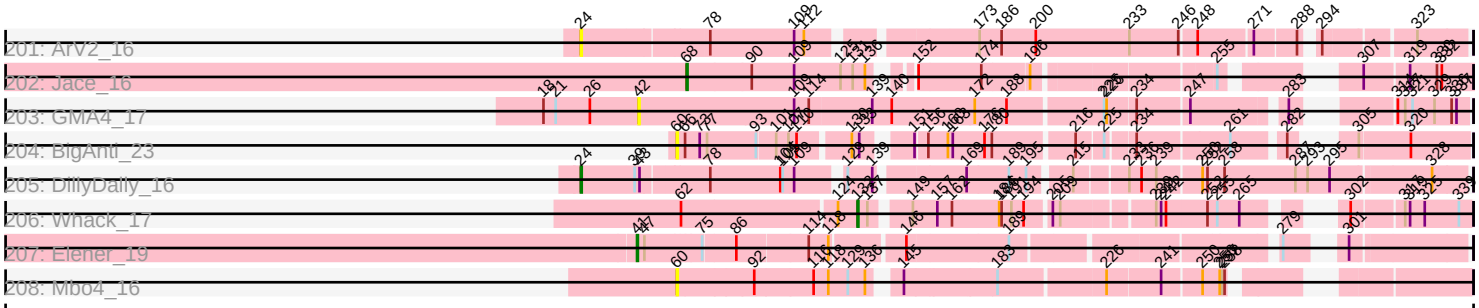
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I01: CanFranMach_17
I02: Bernstein_16 + 5
I03: DirtyBubble_17
I04: SirBeanington_17 + 1
I05: Akino08_16 + 1
I06: Grist_17 + 1
I07: Quenya_17
I08: BubbaBear_17
I09: Rona_16 + 5
I10: Buldak_16
I11: Jonnathan_17 + 8
I12: SansAlet_17
I13: WalkingDead_17
I14: Katzastrophic_16
I15: FlameThrower_16
I16: Clayda5_16
I17: FinalFrontier_18 + 1
I18: Gack_16
I19: Albright_17
I20: PondAmelia_18
I21: SanaSana_18 + 1
I22: Elva_18
I23: PastaFagioli_17
I24: Skylord_16
I25: Abigail_17
I26: Franklin22_17
I27: Stromboli_17
I28: Icarian_18
I29: CliffHanger_17
I30: Eden_16
I31: Celaena_16
I32: Didgeridoo_18
I33: Bachaco_16
I34: Teagster_17
I35: Avocadoman_17
I36: IndyLu_17
I37: BabyYoda_17
I38: AvGardian_17
I39: Sparcetus_31
I40: LordBart_31 + 2
I41: Kors_31 + 1
I42: Ajin_31
I43: Sucha_17
I44: Johann_21 + 2
I45: Linayshia_20
I46: Cicada_22
I47: Benry_20
I48: AyoTeo_22
I49: Alove_20 + 6
I50: IndiRoo_20

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151: PermaG_21
152: Zanella_20
153: Rasovi_20 + 1
154: FireCastle_20
155: Miami_21
156: RootBeer_16
157: Rooter_16
158: BrayBeast_17
159: Alatato_16
160: JeanClaude_17
161: Kumotta_18 + 1
162: Sarge_17
163: Pigu_16
164: Shoya_16
165: BellaJr_20
166: Zucker_19 + 1
167: BlackSpider_18
168: Cassini_18
169: CocoCinnamon_21
170: Maja_17
171: MrSmee_17
172: Skitty_17
173: Pitbull_17
174: Hum25_18
175: Skyerus_17 + 1
176: Neroxid_17
177: Khuang_15
178: Altostratus_15
179: Blett_23
180: Carrillo_24 + 10
181: Warren_23
182: PhillyJawn_23 + 1
183: Pickles13_22
184: Phonegingi_22
185: Mariel_24
186: ScoobySnack_21
187: Phingu_25 + 1
188: Teng_22
189: DelaGarza_21 + 1
190: Gingerbug_19
191: Lesiram_22
192: Wrackline_27
193: Wyvern_25
194: Isperia_23
195: OscarSo_27
196: Doedicurus_24
197: Parvapanticeps_34
198: WorMMAs_17
199: EmiRose_16
200: Gudmit_17

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201: ArV2_16
202: Jace_16
203: GMA4_17
204: BigAnti_23
205: DillyDally_16
206: Whack_17
207: Elener_19
208: Mbo4_16

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 347130 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 347130 has 360 members, 33 are drafts.

Phages represented in each track:
- Track 1 : AbbyDaisy_18
- Track 2 : Raqqa_18
- Track 3 : Bovely_19, BeardedLady_20, Nerdos_19, Ozzie_19, Aaronocolus_19, Unstoppable_19, Hydra_21, SunsetPointe_19, Esperer_19, Indigo_19, Phettuccine_19, Leviticus_19, Caliburn_19, Legacy_19
- Track 4 : Goby_19, Toma_19
- Track 5 : Danzina_20
- Track 6 : Hippo_19, Triste_19, SarahRose_19, Dwayne_19, Whatever_19, Asten_19, Emaanora_21, Werner_19, BarryBee_21
- Track 7 : Rana_19, Nabi_19, Lorelei_19
- Track 8 : TagePhighter_20, Snorlax_19, Chucky_19
- Track 9 : Izzy_20, Eddasa_20, Rusticus_20, BryanRecycles_20, Oliynyk_20, Jash_20
- Track 10 : Godpower_20, Sujidade_20, Lika_19
- Track 11 : Celeste_19, Zemlya_20, Dattran_20
- Track 12 : Maneekul_19, TuanPN_19, Ejemplo_19, Yasdnil_19
- Track 13 : South40_20, RedBear_21, Katalie_20
- Track 14 : Lannister_20
- Track 15 : EnochSoames_21
- Track 16 : Nanodon_21
- Track 17 : Brataylor_20
- Track 18 : OzzyJ_20
- Track 19 : Issmi_20
- Track 20 : Omar_20
- Track 21 : Hank144_20
- Track 22 : Zainub_21, Paolo_21
- Track 23 : Marav_22, Puginator_21
- Track 24 : Amethyst_19
- Track 25 : Loofah_20, Paedore_19
- Track 26 : Caelum_20
- Track 27 : Janus_20
- Track 28 : Superstar_22
- Track 29 : Daudau_19

• Track 30 : SqueakyClean_20, Animus_20
• Track 31 : Jevington_21
• Track 32 : Bowden_20, TinaBelcher_19
• Track 33 : Nishikigoi_19, Tefunt_19, Haizum_19
• Track 34 : ELB20_18, R4_19
• Track 35 : Axiom_20, Triumph_21
• Track 36 : Andris_19
• Track 37 : GirlDinner_19
• Track 38 : BartholomewSD_21, Alvy_21
• Track 39 : Thestral_20
• Track 40 : Pablito_19
• Track 41 : Diane_19
• Track 42 : TrvxScott_18
• Track 43 : Yosif_20
• Track 44 : Kaine_19, Dexers_18, Sudan_19, Alsaber_20
• Track 45 : Verabelle_20
• Track 46 : Speedwell_24
• Track 47 : Saftant_19
• Track 48 : Amela_19, Verse_19
• Track 49 : phiCAM_20
• Track 50 : Celery_22
• Track 51 : ElGato_20, Provolone_20
• Track 52 : ZamZam_19
• Track 53 : Vanseggelen_24
• Track 54 : Pavo_20
• Track 55 : Conan_20
• Track 56 : SunkenRoot_19
• Track 57 : Jhitchelle_18
• Track 58 : phiHau3_21
• Track 59 : BroPlease_20, GreenWeasel_21
• Track 60 : VieEnRose_19
• Track 61 : Urza_19, Itza_19, Celia_19
• Track 62 : Applejacks_17
• Track 63 : Morrissey_18
• Track 64 : Trine_17
• Track 65 : Widow_17, Puppers_17
• Track 66 : Mahdia_17
• Track 67 : Upyo_17
• Track 68 : Gustav_17
• Track 69 : Pepperoni_16, Lton_16, OneDirection_16
• Track 70 : Mocha12_16, TuertoX_16, Cynthia_16, Yinzer_16, Gizermo_16, Clap_16, Haley23_16, GemG_16, Sproutie_16, Savage_16, Ebert_16, Whiteclaw_16
• Track 71 : Matteo_16
• Track 72 : Lamberg_16, Nettuno_16, EdnaMode_16
• Track 73 : Vasanti_16
• Track 74 : Sahara_16
• Track 75 : FroggyToad_16
• Track 76 : Yeet412_16, LordFarquaad_16, Attis_16, SoilAssassin_16, Bjanes7_16
• Track 77 : JCole_16, Pickett_16
• Track 78 : Jalleen_17
• Track 79 : Denise_16
• Track 80 : Moosehead_16
• Track 81 : Faith5x5_16

• Track 82 : RavenCo17_16, Eyre_16
• Track 83 : Malibo_19
• Track 84 : Heinz_17
• Track 85 : Reyja_18, DonkeyMan_17, DinoNuggs_18, Tarzan_17
• Track 86 : Jojo24_17
• Track 87 : Hibiscus_17
• Track 88 : Santhid_17
• Track 89 : DearBasketball_20
• Track 90 : Swervy_17, Slay_17, CupcakePrincess_17, Jabb_17, MsUbiquitous_17, SarBear_17
• Track 91 : Jovita_17
• Track 92 : BAjuniper_17
• Track 93 : Lahqtemish_17
• Track 94 : Squircle_16, Olliecat_16
• Track 95 : Doobus_17
• Track 96 : Phisb_17, TukTuk_17, Pecas_17, Lilo27_17, Eula_17, AylexOG_18, Softsoap_16, QMacho_18, Nicky22_18
• Track 97 : Solea_19, Milomuff_18
• Track 98 : BelmontSKP_18, AnnaLie_18
• Track 99 : Kenzers_17, Lynlen_17
• Track 100 : Shayna_16, SunnyD_16
• Track 101 : CanFranMach_17
• Track 102 : Bernstein_16, Armstrong_16, Coltrane_16, Rollins_16, Vitas_16, Brahms_16
• Track 103 : DirtyBubble_17
• Track 104 : SirBeanington_17, Albedo_17
• Track 105 : Akino08_16, Loviatar_17
• Track 106 : Grist_17, Kate33_17
• Track 107 : Quenya_17
• Track 108 : BubbaBear_17
• Track 109 : Rona_16, Kamdara_16, Sharkboy_16, Kieran_16, ChiliPepper_16, Dismas_16
• Track 110 : Buldak_16
• Track 111 : Johnathan_17, CroZenni_17, Bengal_17, Cashington_17, DickRichards_17, PhigPhack_18, LimaBean_17, Arroyo_18, Burritobowl_17
• Track 112 : SansAfet_17
• Track 113 : WalkingDead_17
• Track 114 : Katzastrophic_16
• Track 115 : FlameThrower_16
• Track 116 : Clayda5_16
• Track 117 : Finalfrontier_18, BabyDaisy_18
• Track 118 : Gack_16
• Track 119 : Albright_17
• Track 120 : PondAmelia_18
• Track 121 : SanaSana_18, Stoor_17
• Track 122 : Elva_18
• Track 123 : PastaFagioli_17
• Track 124 : Skylord_16
• Track 125 : Abigail_17
• Track 126 : Franklin22_17
• Track 127 : Stromboli_17
• Track 128 : Icarian_18
• Track 129 : CliffHanger_17

• Track 130 : Eden_16
• Track 131 : Celaena_16
• Track 132 : Didgeridoo_18
• Track 133 : Bachaco_16
• Track 134 : Teagster_17
• Track 135 : Avocadoman_17
• Track 136 : IndyLu_17
• Track 137 : BabyYoda_17
• Track 138 : AvGardian_17
• Track 139 : Sparcetus_31
• Track 140 : LordBart_31, TinyMiny_31, RikSengupta_31
• Track 141 : Kors_31, Bramble_31
• Track 142 : Ajin_31
• Track 143 : Sucha_17
• Track 144 : Johann_21, Olympi_22, Goodman_21
• Track 145 : Linayshia_20
• Track 146 : Cicada_22
• Track 147 : Benry_20
• Track 148 : AyoTeo_22
• Track 149 : Alove_20, TurboVicky_20, Labella_22, Typher_22, SBlackberry_20, Jera_21, Rootkit7_20
• Track 150 : IndiRoo_20
• Track 151 : PermaG_21
• Track 152 : Zanella_20
• Track 153 : Rasovi_20, Htur_20
• Track 154 : FireCastle_20
• Track 155 : Milani_21
• Track 156 : RootBeer_16
• Track 157 : Rooter_16
• Track 158 : BrayBeast_17
• Track 159 : Alatato_16
• Track 160 : JeanClaude_17
• Track 161 : Kumotta_18, MargaretKali_18
• Track 162 : Sarge_17
• Track 163 : Pigu_16
• Track 164 : Shoya_16
• Track 165 : BellaJr_20
• Track 166 : Zucker_19, Bauer_20
• Track 167 : BlackSpider_18
• Track 168 : Cassini_18
• Track 169 : CocoCinnamon_21
• Track 170 : Maja_17
• Track 171 : MrSmee_17
• Track 172 : Skitty_17
• Track 173 : Pitbull_17
• Track 174 : Hum25_18
• Track 175 : Skyerus_17, Raya_17
• Track 176 : Neroxid_17
• Track 177 : Khuang_15
• Track 178 : Altostratus_15
• Track 179 : Blett_23
• Track 180 : Carrillo_24, Bush_23, MenE_23, Dropshot_22, Losacky_24, NCRodriguez_24, Guzman_24, Appa_22, CookieDog_23, Antuna_23, Violeta_24

• Track 181 : Warren_23
• Track 182 : PhillyJawn_23, Winchester007_24
• Track 183 : Pickles13_22
• Track 184 : Phonegingi_22
• Track 185 : Mariel_24
• Track 186 : ScoobySnack_21
• Track 187 : Phingu_25, Jakelyne_24
• Track 188 : Teng_22
• Track 189 : DelaGarza_21, Sweetums_23
• Track 190 : Gingerbug_19
• Track 191 : Lesiram_22
• Track 192 : Wrackline_27
• Track 193 : Wyvern_25
• Track 194 : Isperia_23
• Track 195 : OscarSo_27
• Track 196 : Doedicurus_24
• Track 197 : Parvaparticeps_34
• Track 198 : WorMMAs_17
• Track 199 : EmiRose_16
• Track 200 : Gudmit_17
• Track 201 : ArV2_16
• Track 202 : Jace_16
• Track 203 : GMA4_17
• Track 204 : BigAnti_23
• Track 205 : DillyDally_16
• Track 206 : Whack_17
• Track 207 : Elener_19
• Track 208 : Mbo4_16

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

The start number called the most often in the published annotations is 34, it was called in 117 of the 327 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aaronocolus_19, Ajin_31, Alsaber_20, Alvy_21, Amela_19, Amethyst_19, Andris_19, Animus_20, Asten_19, Axiom_20, BarryBee_21, BartholomewSD_21, BeardedLady_20, Bovely_19, Bowden_20, Bramble_31, Brataylor_20, BroPlease_20, BryanRecycles_20, Caelum_20, Caliburn_19, Celery_22, Celeste_19, Celia_19, Chucky_19, Conan_20, Danzina_20, Dattran_20, Daudau_19, Dexers_18, Diane_19, Dwayne_19, ELB20_18, Eddasa_20, Ejemplo_19, ElGato_20, Emaanora_21, EnochSoames_21, Esperer_19, GirlDinner_19, Goby_19, Godpower_20, GreenWeasel_21, Haizum_19, Hank144_20, Hippo_19, Hydra_21, Indigo_19, Issmi_20, Itza_19, Izzy_20, Janus_20, Jash_20, Jevington_21, Jhitchelle_18, Kaine_19, Katalie_20, Kors_31, Lannister_20, Legacy_19, Leviticus_19, Lika_19, Loofah_20, LordBart_31, Lorelei_19, Maneekul_19, Marav_22, Nabi_19, Nanodon_21, Nerdos_19, Nishikigoi_19, Oliynyk_20, Omar_20, Ozzie_19, OzzyJ_20, Pablito_19, Paedore_19, Paolo_21, Pavo_20, Phettuccine_19, Provolone_20, Puginator_21, R4_19, Rana_19, RedBear_21, RikSengupta_31, Rusticus_20, Saftant_19, SarahRose_19, Snorlax_19, South40_20, Sparcetus_31, Speedwell_24,

SqueakyClean_20, Sudan_19, Sujidade_20, SunkenRoot_19, SunsetPointe_19, Superstar_22, TagePhighter_20, Tefunt_19, Thestral_20, TinaBelcher_19, TinyMiny_31, Toma_19, Triste_19, Triumph_21, TrvxScott_18, TuanPN_19, Unstoppable_19, Urza_19, Vanseggelen_24, Verabelle_20, Verse_19, VieEnRose_19, Werner_19, Whatever_19, Yasdnil_19, Yosif_20, Zainub_21, Zemlya_20, phiCAM_20, phiHau3_21,

Genes that have the "Most Annotated" start but do not call it:
• DearBasketball_20, DinoNuggs_18, DonkeyMan_17, Heinz_17, Hibiscus_17, Jojo24_17, Reyja_18, Santhid_17, Tarzan_17,

Genes that do not have the "Most Annotated" start:
• AbbyDaisy_18, Abigail_17, Akino08_16, Alatato_16, Albedo_17, Albright_17, Alove_20, Altostratus_15, AnnaLie_18, Antuna_23, Appa_22, Applejacks_17, ArV2_16, Armstrong_16, Arroyo_18, Attis_16, AvGardian_17, Avocadoman_17, AylexOG_18, AyoTeo_22, BAjuniper_17, BabyDaisy_18, BabyYoda_17, Bachaco_16, Bauer_20, BellaJr_20, BelmontSKP_18, Bengal_17, Benry_20, Bernstein_16, BigAnti_23, Bjanes7_16, BlackSpider_18, Blett_23, Brahms_16, BrayBeast_17, BubbaBear_17, Buldak_16, Burritobowl_17, Bush_23, CanFranMach_17, Carrillo_24, Cashington_17, Cassini_18, Celaena_16, ChiliPepper_16, Cicada_22, Clap_16, Clayda5_16, CliffHanger_17, CocoCinnamon_21, Coltrane_16, CookieDog_23, CroZenni_17, CupcakePrincess_17, Cynthia_16, DelaGarza_21, Denise_16, DickRichards_17, Didgeridoo_18, DillyDally_16, DirtyBubble_17, Dismas_16, Doedicurus_24, Doobus_17, Dropshot_22, Ebert_16, Eden_16, EdnaMode_16, Elener_19, Elva_18, EmiRose_16, Eula_17, Eyre_16, Faith5x5_16, Finalfrontier_18, FireCastle_20, FlameThrower_16, Franklin22_17, FroggyToad_16, GMA4_17, Gack_16, GemG_16, Gingerbug_19, Gizermo_16, Goodman_21, Grist_17, Gudmit_17, Gustav_17, Guzman_24, Haley23_16, Htur_20, Hum25_18, Icarian_18, IndiRoo_20, IndyLu_17, Isperia_23, JCole_16, Jabb_17, Jace_16, Jakelyne_24, Jalleen_17, JeanClaude_17, Jera_21, Johann_21, Johnathan_17, Jovita_17, Kamdara_16, Kate33_17, Katzastrophic_16, Kenzers_17, Khuang_15, Kieran_16, Kumotta_18, Labella_22, Lahqtemish_17, Lamberg_16, Lesiram_22, Lilo27_17, LimaBean_17, Linayshia_20, LordFarquaad_16, Losacky_24, Loviatar_17, Lton_16, Lynlen_17, Mahdia_17, Maja_17, Malibo_19, MargaretKali_18, Mariel_24, Matteo_16, Mbo4_16, MenE_23, Milani_21, Milomuff_18, Mocha12_16, Moosehead_16, Morrissey_18, MrSmee_17, MsUbiquitous_17, NCRodriguez_24, Neroxid_17, Nettuno_16, Nicky22_18, Olliecat_16, Olympi_22, OneDirection_16, OscarSo_27, Parvaparticeps_34, PastaFagioli_17, Pecas_17, Pepperoni_16, PermaG_21, PhigPhack_18, PhillyJawn_23, Phingu_25, Phisb_17, Phonegingi_22, Pickett_16, Pickles13_22, Pigu_16, Pitbull_17, PondAmelia_18, Puppers_17, QMacho_18, Quenya_17, Raqqa_18, Rasovi_20, RavenCo17_16, Raya_17, Rollins_16, Rona_16, RootBeer_16, Rooter_16, Rootkit7_20, SBlackberry_20, Sahara_16, SanaSana_18, SansAfet_17, SarBear_17, Sarge_17, Savage_16, ScoobySnack_21, Sharkboy_16, Shayna_16, Shoya_16, SirBeanington_17, Skitty_17, Skyerus_17, Skylord_16, Slay_17, Softsoap_16, SoilAssassin_16, Solea_19, Sproutie_16, Squircle_16, Stoor_17, Stromboli_17, Sucha_17, SunnyD_16, Sweetums_23, Swervy_17, Teagster_17, Teng_22, Trine_17, TuertoX_16, TukTuk_17, TurboVicky_20, Typher_22, Upyo_17, Vasanti_16, Violeta_24, Vitas_16, WalkingDead_17, Warren_23, Whack_17, Whiteclaw_16, Widow_17, Winchester007_24, WorMMAs_17, Wrackline_27, Wyvern_25, Yeet412_16, Yinzer_16, ZamZam_19, Zanella_20, Zucker_19,

Summary by start number:

Start 17:
• Found in 4 of 360 (1.1%) of genes in pham
• Manual Annotations of this start: 1 of 327
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Teagster_17 (EB),

Start 22:
• Found in 7 of 360 (1.9%) of genes in pham
• Manual Annotations of this start: 3 of 327
• Called 71.4% of time when present
• Phage (with cluster) where this start called: AbbyDaisy_18 (AY), Hum25_18 (FQ1), Neroxid_17 (FQ2), Pitbull_17 (FQ1), Raqqa_18 (AY),

Start 23:
• Found in 5 of 360 (1.4%) of genes in pham
• Manual Annotations of this start: 4 of 327
• Called 80.0% of time when present
• Phage (with cluster) where this start called: CocoCinnamon_21 (FO), Khuang_15 (FS), Maja_17 (FO), Pigu_16 (FB),

Start 24:
• Found in 20 of 360 (5.6%) of genes in pham
• Manual Annotations of this start: 11 of 327
• Called 60.0% of time when present
• Phage (with cluster) where this start called: Alatato_16 (FB), Altostratus_15 (FS), ArV2_16 (singleton), BlackSpider_18 (FN), BrayBeast_17 (FB), Cassini_18 (FN), DillyDally_16 (singleton), Kumotta_18 (FB), MargaretKali_18 (FB), RootBeer_16 (FA), Sarge_17 (FB), Shoya_16 (FB),

Start 33:
• Found in 1 of 360 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 327
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ZamZam_19 (BD3),

Start 34:
• Found in 132 of 360 (36.7%) of genes in pham
• Manual Annotations of this start: 117 of 327
• Called 93.2% of time when present
• Phage (with cluster) where this start called: Aaronocolus_19 (BD1), Ajin_31 (EF), Alsaber_20 (BD3), Alvy_21 (BD2), Amela_19 (BD3), Amethyst_19 (BD2), Andris_19 (BD2), Animus_20 (BD2), Asten_19 (BD1), Axiom_20 (BD2), BarryBee_21 (BD1), BartholomewSD_21 (BD2), BeardedLady_20 (BD1), Bovely_19 (BD1), Bowden_20 (BD2), Bramble_31 (EF), Brataylor_20 (BD1), BroPlease_20 (BD4), BryanRecycles_20 (BD1), Caelum_20 (BD2), Caliburn_19 (BD1), Celery_22 (BD3), Celeste_19 (BD1), Celia_19 (BD6), Chucky_19 (BD1), Conan_20 (BD3), Danzina_20 (BD1), Dattran_20 (BD1), Daudau_19 (BD2), Dexers_18 (BD3), Diane_19 (BD2), Dwayne_19 (BD1), ELB20_18 (BD2), Eddasa_20 (BD1), Ejemplo_19 (BD1), ElGato_20 (BD3), Emaanora_21 (BD1), EnochSoames_21 (BD1), Esperer_19 (BD1), GirlDinner_19 (BD2), Goby_19 (BD1), Godpower_20 (BD1), GreenWeasel_21 (BD4), Haizum_19 (BD2), Hank144_20 (BD2), Hippo_19 (BD1), Hydra_21 (BD1), Indigo_19

(BD1), Issmi_20 (BD2), Itza_19 (BD6), Izzy_20 (BD1), Janus_20 (BD2), Jash_20 (BD1), Jevington_21 (BD2), Jhitchelle_18 (BD3), Kaine_19 (BD3), Katalie_20 (BD1), Kors_31 (EF), Lannister_20 (BD1), Legacy_19 (BD1), Leviticus_19 (BD1), Lika_19 (BD1), Loofah_20 (BD2), LordBart_31 (EF), Lorelei_19 (BD1), Maneekul_19 (BD1), Marav_22 (BD2), Nabi_19 (BD1), Nanodon_21 (BD1), Nerdos_19 (BD1), Nishikigoi_19 (BD2), Oliynyk_20 (BD1), Omar_20 (BD2), Ozzie_19 (BD1), OzzyJ_20 (BD1), Pablito_19 (BD2), Paedore_19 (BD2), Paolo_21 (BD2), Pavo_20 (BD3), Phettuccine_19 (BD1), Provolone_20 (BD3), Puginator_21 (BD2), R4_19 (BD2), Rana_19 (BD1), RedBear_21 (BD1), RikSengupta_31 (EF), Rusticus_20 (BD1), Saftant_19 (BD3), SarahRose_19 (BD1), Snorlax_19 (BD1), South40_20 (BD1), Sparcetus_31 (EF), Speedwell_24 (BD3), SqueakyClean_20 (BD2), Sudan_19 (BD3), Sujidade_20 (BD1), SunkenRoot_19 (BD3), SunsetPointe_19 (BD1), Superstar_22 (BD2), TagePhighter_20 (BD1), Tefunt_19 (BD2), Thestral_20 (BD2), TinaBelcher_19 (BD2), TinyMiny_31 (EF), Toma_19 (BD1), Triste_19 (BD1), Triumph_21 (BD2), TrvxScott_18 (BD2), TuanPN_19 (BD1), Unstoppable_19 (BD1), Urza_19 (BD6), Vanseggelen_24 (BD3), Verabelle_20 (BD3), Verse_19 (BD3), VieEnRose_19 (BD6), Werner_19 (BD1), Whatever_19 (BD1), Yasdnil_19 (BD1), Yosif_20 (BD3), Zainub_21 (BD2), Zemlya_20 (BD1), phiCAM_20 (BD3), phiHau3_21 (BD4),

Start 35:
• Found in 2 of 360 (0.6%) of genes in pham
• Manual Annotations of this start: 2 of 327
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CanFranMach_17 (EB), Eden_16 (EB),

Start 36:
• Found in 1 of 360 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 327
• Called 100.0% of time when present
• Phage (with cluster) where this start called: EmiRose_16 (singleton),

Start 37:
• Found in 1 of 360 (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: Parvaparticeps_34 (UNK),

Start 38:
• Found in 85 of 360 (23.6%) of genes in pham
• Manual Annotations of this start: 81 of 327
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Abigail_17 (EB), Akino08_16 (EB), Albedo_17 (EB), Albright_17 (EB), AnnaLie_18 (EB), Armstrong_16 (EB), Arroyo_18 (EB), AvGardian_17 (EB), Avocadoman_17 (EB), AylexOG_18 (EB), BAjuniper_17 (EB), BabyDaisy_18 (EB), BabyYoda_17 (EB), Bachaco_16 (EB), BelmontSKP_18 (EB), Bengal_17 (EB), Bernstein_16 (EB), Brahms_16 (EB), BubbaBear_17 (EB), Buldak_16 (EB), Burritobowl_17 (EB), Cashington_17 (EB), Celaena_16 (EB), ChiliPepper_16 (EB), Clayda5_16 (EB), CliffHanger_17 (EB), Coltrane_16 (EB), CroZenni_17 (EB), CupcakePrincess_17 (EB), DickRichards_17 (EB), Didgeridoo_18 (EB), DirtyBubble_17 (EB), Dismas_16 (EB), Doobus_17 (EB), Elva_18 (EB), Eula_17 (EB), Finalfrontier_18 (EB), FlameThrower_16 (EB), Franklin22_17 (EB), Gack_16 (EB), Grist_17 (EB), Icarian_18 (EB), IndyLu_17 (EB), Jabb_17 (EB), Johnathan_17 (EB), Jovita_17 (EB), Kamdara_16 (EB), Kate33_17 (EB),

Katzastrophic_16 (EB), Kenzers_17 (EB), Kieran_16 (EB), Lahqtemish_17 (EB), Lilo27_17 (EB), LimaBean_17 (EB), Loviatar_17 (EB), Lynlen_17 (EB), Milomuff_18 (EB), MsUbiquitous_17 (EB), Nicky22_18 (EB), Olliecat_16 (EB), PastaFagioli_17 (EB), Pecas_17 (EB), PhigPhack_18 (EB), Phisb_17 (EB), PondAmelia_18 (EB), QMacho_18 (EB), Quenya_17 (EB), Rollins_16 (EB), Rona_16 (EB), SanaSana_18 (EB), SansAfet_17 (EB), SarBear_17 (EB), Sharkboy_16 (EB), SirBeanington_17 (EB), Skylord_16 (EB), Slay_17 (EB), Softsoap_16 (EB), Solea_19 (EB), Squircle_16 (EB), Stoor_17 (EB), Stromboli_17 (EB), Swervy_17 (EB), TukTuk_17 (EB), Vitas_16 (EB), WalkingDead_17 (EB),

Start 40:
• Found in 2 of 360 (0.6%) of genes in pham
• Manual Annotations of this start: 2 of 327
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Shayna_16 (EB), SunnyD_16 (EB),

Start 41:
• Found in 16 of 360 (4.4%) of genes in pham
• Manual Annotations of this start: 11 of 327
• Called 68.8% of time when present
• Phage (with cluster) where this start called: Benry_20 (EJ), DelaGarza_21 (GF), Elener_19 (singleton), FireCastle_20 (EJ), Gingerbug_19 (GF), IndiRoo_20 (EJ), Lesiram_22 (GF), Milani_21 (EJ), Sweetums_23 (GF), Teng_22 (GF), Wrackline_27 (GF),

Start 42:
• Found in 1 of 360 (0.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GMA4_17 (singleton),

Start 43:
• Found in 62 of 360 (17.2%) of genes in pham
• Manual Annotations of this start: 38 of 327
• Called 74.2% of time when present
• Phage (with cluster) where this start called: Alove_20 (EJ), Antuna_23 (GA), Appa_22 (GA), AyoTeo_22 (EJ), Bauer_20 (FN), Blett_23 (GA), Bush_23 (GA), Carrillo_24 (GA), Cicada_22 (EJ), CookieDog_23 (GA), Dropshot_22 (GA), Goodman_21 (EJ), Guzman_24 (GA), Htur_20 (EJ), Jakelyne_24 (GA), JeanClaude_17 (FB), Jera_21 (EJ), Johann_21 (EJ), Labella_22 (EJ), Linayshia_20 (EJ), Losacky_24 (GA), Mariel_24 (GA), MenE_23 (GA), MrSmee_17 (FQ1), NCRodriguez_24 (GA), Olympi_22 (EJ), PermaG_21 (EJ), PhillyJawn_23 (GA), Phingu_25 (GA), Phonegingi_22 (GA), Pickles13_22 (GA), Rasovi_20 (EJ), Raya_17 (FQ2), Rooter_16 (FB), Rootkit7_20 (EJ), SBlackberry_20 (EJ), ScoobySnack_21 (GA), Skitty_17 (FQ1), Skyerus_17 (FQ2), TurboVicky_20 (EJ), Typher_22 (EJ), Violeta_24 (GA), Warren_23 (GA), Winchester007_24 (GA), Zanella_20 (EJ), Zucker_19 (FN),

Start 51:
• Found in 4 of 360 (1.1%) of genes in pham
• Manual Annotations of this start: 4 of 327
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Doedicurus_24 (GJ), Isperia_23 (GJ), OscarSo_27 (GJ), Wyvern_25 (GJ),

Start 52:
• Found in 37 of 360 (10.3%) of genes in pham
• Manual Annotations of this start: 15 of 327
• Called 48.6% of time when present
• Phage (with cluster) where this start called: Applejacks_17 (CD), DearBasketball_20 (DY), DinoNuggs_18 (DY), DonkeyMan_17 (DY), Gustav_17 (CD), Heinz_17 (DY), Hibiscus_17 (DY), Jojo24_17 (DY), Mahdia_17 (CD), Malibo_19 (DW), Morrissey_18 (CD), Puppers_17 (CD), Reyja_18 (DY), Santhid_17 (DY), Tarzan_17 (DY), Trine_17 (CD), Upyo_17 (CD), Widow_17 (CD),

Start 57:
• Found in 27 of 360 (7.5%) of genes in pham
• Manual Annotations of this start: 1 of 327
• Called 3.7% of time when present
• Phage (with cluster) where this start called: Sucha_17 (EJ),

Start 59:
• Found in 34 of 360 (9.4%) of genes in pham
• Manual Annotations of this start: 30 of 327
• Called 97.1% of time when present
• Phage (with cluster) where this start called: Attis_16 (CZ2), Bjanes7_16 (CZ2), Clap_16 (CZ2), Cynthia_16 (CZ2), Denise_16 (CZ5), Ebert_16 (CZ2), EdnaMode_16 (CZ2), Faith5x5_16 (CZ6), FroggyToad_16 (CZ2), GemG_16 (CZ2), Gizermo_16 (CZ2), Haley23_16 (CZ2), JCole_16 (CZ2), Jalleen_17 (CZ2), Lamberg_16 (CZ2), LordFarquaad_16 (CZ2), Lton_16 (CZ), Matteo_16 (CZ2), Mocha12_16 (CZ2), Moosehead_16 (CZ6), Nettuno_16 (CZ2), OneDirection_16 (CZ6), Pepperoni_16 (CZ), Pickett_16 (CZ2), Sahara_16 (CZ2), Savage_16 (CZ2), SoilAssassin_16 (CZ2), Sproutie_16 (CZ2), TuertoX_16 (CZ2), Vasanti_16 (CZ2), Whiteclaw_16 (CZ2), Yeet412_16 (CZ2), Yinzer_16 (CZ2),

Start 60:
• Found in 21 of 360 (5.8%) of genes in pham
• Manual Annotations of this start: 2 of 327
• Called 19.0% of time when present
• Phage (with cluster) where this start called: BigAnti_23 (singleton), Eyre_16 (singleton), Mbo4_16 (singleton), RavenCo17_16 (CZ8),

Start 61:
• Found in 1 of 360 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 327
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gudmit_17 (singleton),

Start 68:
• Found in 3 of 360 (0.8%) of genes in pham
• Manual Annotations of this start: 1 of 327
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Jace_16 (singleton),

Start 76:

• Found in 2 of 360 (0.6%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: WorMMAs_17 (UNK),

Start 109:
• Found in 34 of 360 (9.4%) of genes in pham
• No Manual Annotations of this start.
• Called 2.9% of time when present
• Phage (with cluster) where this start called: BellaJr_20 (FN),

Start 132:
• Found in 1 of 360 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 327
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Whack_17 (singleton),

Summary by clusters:

There are 29 clusters represented in this pham: singleton, FS, CZ2, CZ6, CZ8, CZ5, FA, FB, DY, DW, FN, FO, BD4, BD6, BD1, BD3, BD2, EJ, EF, EB, GF, GA, AY, UNK, GJ, CZ, CD, FQ2, FQ1,

Info for manual annotations of cluster AY:
•Start number 22 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster BD1:
•Start number 34 was manually annotated 55 times for cluster BD1.

Info for manual annotations of cluster BD2:
•Start number 34 was manually annotated 33 times for cluster BD2.

Info for manual annotations of cluster BD3:
•Start number 33 was manually annotated 1 time for cluster BD3.
•Start number 34 was manually annotated 15 times for cluster BD3.

Info for manual annotations of cluster BD4:
•Start number 34 was manually annotated 3 times for cluster BD4.

Info for manual annotations of cluster BD6:
•Start number 34 was manually annotated 4 times for cluster BD6.

Info for manual annotations of cluster CD:
•Start number 52 was manually annotated 7 times for cluster CD.

Info for manual annotations of cluster CZ:
•Start number 59 was manually annotated 2 times for cluster CZ.

Info for manual annotations of cluster CZ2:
•Start number 59 was manually annotated 24 times for cluster CZ2.

Info for manual annotations of cluster CZ5:
•Start number 59 was manually annotated 1 time for cluster CZ5.

Info for manual annotations of cluster CZ6:
•Start number 59 was manually annotated 3 times for cluster CZ6.

Info for manual annotations of cluster CZ8:
•Start number 60 was manually annotated 1 time for cluster CZ8.

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

Info for manual annotations of cluster DY:
•Start number 52 was manually annotated 7 times for cluster DY.

Info for manual annotations of cluster EB:
•Start number 17 was manually annotated 1 time for cluster EB.
•Start number 35 was manually annotated 2 times for cluster EB.
•Start number 38 was manually annotated 81 times for cluster EB.
•Start number 40 was manually annotated 2 times for cluster EB.

Info for manual annotations of cluster EF:
•Start number 34 was manually annotated 7 times for cluster EF.

Info for manual annotations of cluster EJ:
•Start number 41 was manually annotated 4 times for cluster EJ.
•Start number 43 was manually annotated 16 times for cluster EJ.
•Start number 57 was manually annotated 1 time for cluster EJ.

Info for manual annotations of cluster FA:
•Start number 24 was manually annotated 1 time for cluster FA.

Info for manual annotations of cluster FB:
•Start number 23 was manually annotated 1 time for cluster FB.
•Start number 24 was manually annotated 6 times for cluster FB.
•Start number 43 was manually annotated 1 time for cluster FB.

Info for manual annotations of cluster FN:
•Start number 24 was manually annotated 2 times for cluster FN.
•Start number 43 was manually annotated 2 times for cluster FN.

Info for manual annotations of cluster FO:
•Start number 23 was manually annotated 2 times for cluster FO.

Info for manual annotations of cluster FQ1:
•Start number 22 was manually annotated 2 times for cluster FQ1.
•Start number 43 was manually annotated 2 times for cluster FQ1.

Info for manual annotations of cluster FS:
•Start number 23 was manually annotated 1 time for cluster FS.
•Start number 24 was manually annotated 1 time for cluster FS.

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

Info for manual annotations of cluster GF:
•Start number 41 was manually annotated 6 times for cluster GF.

Info for manual annotations of cluster GJ:
•Start number 51 was manually annotated 4 times for cluster GJ.

Gene Information:

Gene: Aaronocolus_19 Start: 14993, Stop: 15850, Start Num: 34
Candidate Starts for Aaronocolus_19:
(Start: 34 @14993 has 117 MA's), (70, 15065), (78, 15083), (86, 15113), (95, 15146), (136, 15251), (146, 15278), (182, 15380), (199, 15425), (224, 15491), (226, 15497), (240, 15551), (243, 15563), (273, 15665), (278, 15677), (283, 15686), (340, 15839), (342, 15842),

Gene: AbbyDaisy_18 Start: 14442, Stop: 15422, Start Num: 22
Candidate Starts for AbbyDaisy_18:
(Start: 22 @14442 has 3 MA's), (70, 14571), (78, 14589), (81, 14601), (93, 14643), (97, 14661), (129, 14736), (200, 14943), (208, 14970), (220, 15006), (243, 15105), (248, 15135), (252, 15147), (258, 15168), (271, 15198), (280, 15231), (294, 15258), (306, 15300), (318, 15351), (323, 15363),

Gene: Abigail_17 Start: 13263, Stop: 14117, Start Num: 38
Candidate Starts for Abigail_17:
(Start: 38 @13263 has 81 MA's), (71, 13338), (82, 13368), (84, 13377), (118, 13476), (125, 13491), (146, 13548), (180, 13644), (184, 13653), (197, 13686), (229, 13770), (236, 13791), (266, 13908), (322, 14049), (342, 14109),

Gene: Ajin_31 Start: 17618, Stop: 18502, Start Num: 34
Candidate Starts for Ajin_31:
(19, 17519), (Start: 34 @17618 has 117 MA's), (79, 17714), (84, 17735), (112, 17819), (114, 17825), (158, 17966), (243, 18215), (248, 18245), (274, 18323), (281, 18335), (283, 18338), (300, 18356), (317, 18422), (318, 18425), (319, 18428), (344, 18497),

Gene: Akino08_16 Start: 13047, Stop: 13904, Start Num: 38
Candidate Starts for Akino08_16:
(Start: 38 @13047 has 81 MA's), (49, 13071), (56, 13092), (71, 13122), (82, 13152), (85, 13164), (118, 13260), (125, 13275), (127, 13281), (146, 13332), (168, 13395), (180, 13428), (197, 13470), (236, 13575), (238, 13584), (239, 13593), (265, 13689), (317, 13824), (322, 13836), (342, 13896),

Gene: Alatato_16 Start: 12479, Stop: 13390, Start Num: 24
Candidate Starts for Alatato_16:
(11, 12392), (Start: 24 @12479 has 11 MA's), (25, 12488), (Start: 43 @12548 has 38 MA's), (80, 12635), (82, 12641), (87, 12662), (102, 12707), (109, 12725), (173, 12914), (186, 12941), (219, 13034), (236, 13079), (243, 13112), (248, 13142), (250, 13148), (256, 13169), (279, 13229), (323, 13331), (329, 13352),

Gene: Albedo_17 Start: 13131, Stop: 13985, Start Num: 38
Candidate Starts for Albedo_17:
(Start: 38 @13131 has 81 MA's), (71, 13206), (82, 13236), (84, 13245), (118, 13344), (146, 13416), (180, 13512), (184, 13521), (197, 13554), (229, 13638), (234, 13653), (317, 13905), (322, 13917),

(342, 13977),

Gene: Albright_17 Start: 13042, Stop: 13896, Start Num: 38
Candidate Starts for Albright_17:
(Start: 38 @13042 has 81 MA's), (71, 13117), (82, 13147), (84, 13156), (118, 13255), (125, 13270), (146, 13327), (180, 13423), (184, 13432), (197, 13465), (229, 13549), (236, 13570), (266, 13687), (269, 13696), (316, 13813), (322, 13828), (342, 13888),

Gene: Alove_20 Start: 15338, Stop: 16231, Start Num: 43
Candidate Starts for Alove_20:
(Start: 43 @15338 has 38 MA's), (82, 15431), (84, 15440), (111, 15518), (125, 15569), (142, 15629), (158, 15683), (159, 15686), (161, 15692), (249, 15974), (250, 15977), (273, 16046), (283, 16067), (285, 16070), (312, 16130), (332, 16196),

Gene: Alsaber_20 Start: 15677, Stop: 16534, Start Num: 34
Candidate Starts for Alsaber_20:
(Start: 34 @15677 has 117 MA's), (Start: 52 @15713 has 15 MA's), (70, 15749), (84, 15791), (136, 15935), (146, 15962), (223, 16169), (224, 16175), (232, 16199), (273, 16349), (332, 16499), (340, 16523), (342, 16526),

Gene: Altostratus_15 Start: 12904, Stop: 13848, Start Num: 24
Candidate Starts for Altostratus_15:
(Start: 17 @12850 has 1 MA's), (Start: 23 @12901 has 4 MA's), (Start: 24 @12904 has 11 MA's), (74, 13045), (80, 13066), (82, 13072), (85, 13084), (93, 13111), (109, 13156), (144, 13273), (170, 13354), (181, 13381), (228, 13516), (236, 13537), (252, 13612), (255, 13624), (263, 13645), (287, 13702), (303, 13720),

Gene: Alvy_21 Start: 15007, Stop: 15861, Start Num: 34
Candidate Starts for Alvy_21:
(Start: 34 @15007 has 117 MA's), (Start: 60 @15061 has 2 MA's), (78, 15097), (224, 15502), (340, 15850), (342, 15853),

Gene: Amela_19 Start: 15969, Stop: 16826, Start Num: 34
Candidate Starts for Amela_19:
(Start: 34 @15969 has 117 MA's), (Start: 52 @16005 has 15 MA's), (70, 16041), (84, 16083), (136, 16227), (184, 16359), (223, 16461), (224, 16467), (273, 16641), (283, 16662), (319, 16752), (332, 16791), (340, 16815), (342, 16818),

Gene: Amethyst_19 Start: 15455, Stop: 16312, Start Num: 34
Candidate Starts for Amethyst_19:
(Start: 34 @15455 has 117 MA's), (78, 15545), (88, 15584), (136, 15713), (145, 15737), (158, 15776), (199, 15887), (203, 15896), (240, 16013), (243, 16025), (245, 16034), (283, 16148), (306, 16184), (323, 16247), (340, 16301), (342, 16304),

Gene: Andris_19 Start: 14711, Stop: 15565, Start Num: 34
Candidate Starts for Andris_19:
(Start: 34 @14711 has 117 MA's), (Start: 60 @14765 has 2 MA's), (78, 14801), (95, 14864), (158, 15032), (222, 15197), (223, 15200), (224, 15206), (266, 15362), (283, 15401), (285, 15404), (340, 15554), (342, 15557),

Gene: Animus_20 Start: 15047, Stop: 15901, Start Num: 34
Candidate Starts for Animus_20:

(Start: 34 @15047 has 117 MA's), (95, 15200), (158, 15368), (222, 15533), (224, 15542), (245, 15623), (283, 15737), (340, 15890), (342, 15893),

Gene: AnnaLie_18 Start: 13450, Stop: 14304, Start Num: 38
Candidate Starts for AnnaLie_18:
(Start: 38 @13450 has 81 MA's), (71, 13525), (82, 13555), (84, 13564), (118, 13663), (125, 13678), (146, 13735), (180, 13831), (184, 13840), (229, 13957), (236, 13978), (266, 14095), (322, 14236), (342, 14296),

Gene: Antuna_23 Start: 13703, Stop: 14563, Start Num: 43
Candidate Starts for Antuna_23:
(Start: 43 @13703 has 38 MA's), (56, 13739), (Start: 57 @13742 has 1 MA's), (70, 13763), (72, 13769), (78, 13781), (82, 13796), (104, 13862), (112, 13889), (125, 13919), (137, 13952), (169, 14045), (178, 14072), (223, 14195), (224, 14201), (234, 14234), (251, 14312), (339, 14549), (340, 14552),

Gene: Appa_22 Start: 13565, Stop: 14425, Start Num: 43
Candidate Starts for Appa_22:
(Start: 43 @13565 has 38 MA's), (56, 13601), (Start: 57 @13604 has 1 MA's), (70, 13625), (72, 13631), (78, 13643), (82, 13658), (104, 13724), (112, 13751), (125, 13781), (137, 13814), (169, 13907), (178, 13934), (223, 14057), (224, 14063), (234, 14096), (251, 14174), (339, 14411), (340, 14414),

Gene: Applejacks_17 Start: 14230, Stop: 15060, Start Num: 52
Candidate Starts for Applejacks_17:
(Start: 52 @14230 has 15 MA's), (72, 14275), (80, 14299), (98, 14362), (99, 14365), (126, 14434), (164, 14530), (203, 14626), (207, 14638), (220, 14677), (231, 14707), (283, 14863), (292, 14884), (299, 14914), (300, 14917), (310, 14953), (318, 14983),

Gene: ArV2_16 Start: 12791, Stop: 13762, Start Num: 24
Candidate Starts for ArV2_16:
(Start: 24 @12791 has 11 MA's), (78, 12935), (109, 13034), (112, 13046), (173, 13220), (186, 13247), (200, 13289), (233, 13403), (246, 13463), (248, 13481), (271, 13544), (288, 13592), (294, 13604), (323, 13703),

Gene: Armstrong_16 Start: 11609, Stop: 12466, Start Num: 38
Candidate Starts for Armstrong_16:
(Start: 38 @11609 has 81 MA's), (54, 11648), (71, 11684), (82, 11714), (85, 11726), (118, 11822), (146, 11894), (171, 11969), (180, 11990), (239, 12158), (270, 12269),

Gene: Arroyo_18 Start: 13651, Stop: 14505, Start Num: 38
Candidate Starts for Arroyo_18:
(Start: 38 @13651 has 81 MA's), (71, 13726), (82, 13756), (84, 13765), (118, 13864), (125, 13879), (146, 13936), (180, 14032), (184, 14041), (197, 14074), (229, 14158), (236, 14179), (266, 14296), (322, 14437), (342, 14497),

Gene: Asten_19 Start: 14959, Stop: 15816, Start Num: 34
Candidate Starts for Asten_19:
(Start: 34 @14959 has 117 MA's), (70, 15031), (78, 15049), (136, 15217), (146, 15244), (218, 15439), (224, 15457), (226, 15463), (240, 15517), (273, 15631), (283, 15652), (340, 15805), (342, 15808),

Gene: Attis_16 Start: 13903, Stop: 14751, Start Num: 59
Candidate Starts for Attis_16:
(Start: 59 @13903 has 30 MA's), (63, 13909), (110, 14044), (137, 14131), (150, 14164), (177, 14251), (179, 14254), (190, 14275), (198, 14299), (212, 14332), (275, 14554), (277, 14560), (334, 14722),

Gene: AvGardian_17 Start: 12793, Stop: 13647, Start Num: 38
Candidate Starts for AvGardian_17:
(Start: 38 @12793 has 81 MA's), (56, 12838), (71, 12868), (82, 12898), (84, 12907), (105, 12967), (118, 13006), (125, 13021), (146, 13078), (159, 13117), (180, 13174), (184, 13183), (197, 13216), (226, 13288), (234, 13315), (236, 13321), (257, 13414), (272, 13456), (317, 13567), (319, 13573), (322, 13579), (342, 13639),

Gene: Avocadoman_17 Start: 13206, Stop: 14060, Start Num: 38
Candidate Starts for Avocadoman_17:
(Start: 38 @13206 has 81 MA's), (71, 13281), (82, 13311), (84, 13320), (118, 13419), (125, 13434), (146, 13491), (180, 13587), (184, 13596), (197, 13629), (229, 13713), (266, 13851), (322, 13992), (342, 14052),

Gene: Axiom_20 Start: 14860, Stop: 15714, Start Num: 34
Candidate Starts for Axiom_20:
(Start: 34 @14860 has 117 MA's), (Start: 60 @14914 has 2 MA's), (78, 14950), (95, 15013), (129, 15097), (222, 15346), (224, 15355), (234, 15388), (245, 15436), (266, 15511), (283, 15550), (340, 15703), (342, 15706),

Gene: AylexOG_18 Start: 13465, Stop: 14319, Start Num: 38
Candidate Starts for AylexOG_18:
(Start: 38 @13465 has 81 MA's), (71, 13540), (82, 13570), (84, 13579), (118, 13678), (125, 13693), (146, 13750), (180, 13846), (184, 13855), (197, 13888), (229, 13972), (234, 13987), (317, 14239), (322, 14251), (342, 14311),

Gene: AyoTeo_22 Start: 15465, Stop: 16358, Start Num: 43
Candidate Starts for AyoTeo_22:
(Start: 43 @15465 has 38 MA's), (82, 15558), (84, 15567), (111, 15645), (125, 15696), (158, 15810), (161, 15819), (249, 16101), (250, 16104), (273, 16173), (283, 16194), (285, 16197), (312, 16257), (332, 16323),

Gene: BAjuniper_17 Start: 12793, Stop: 13644, Start Num: 38
Candidate Starts for BAjuniper_17:
(Start: 38 @12793 has 81 MA's), (56, 12838), (71, 12868), (82, 12898), (118, 13006), (125, 13021), (146, 13078), (180, 13174), (197, 13213), (229, 13297), (236, 13318), (252, 13393), (274, 13462), (301, 13504), (322, 13576), (342, 13636),

Gene: BabyDaisy_18 Start: 13266, Stop: 14120, Start Num: 38
Candidate Starts for BabyDaisy_18:
(Start: 38 @13266 has 81 MA's), (56, 13311), (71, 13341), (82, 13371), (84, 13380), (125, 13494), (146, 13551), (236, 13794), (251, 13866), (270, 13923), (317, 14040), (322, 14052), (342, 14112),

Gene: BabyYoda_17 Start: 13134, Stop: 13988, Start Num: 38
Candidate Starts for BabyYoda_17:
(Start: 38 @13134 has 81 MA's), (56, 13179), (71, 13209), (82, 13239), (118, 13347), (125, 13362), (146, 13419), (180, 13515), (184, 13524), (197, 13557), (236, 13662), (238, 13671), (239, 13680), (252, 13737), (257, 13755), (266, 13779), (317, 13908), (322, 13920), (342, 13980),

Gene: Bachaco_16 Start: 12667, Stop: 13521, Start Num: 38
Candidate Starts for Bachaco_16:
(Start: 38 @12667 has 81 MA's), (71, 12742), (82, 12772), (95, 12820), (118, 12880), (144, 12946), (146, 12952), (159, 12991), (180, 13048), (197, 13090), (226, 13162), (236, 13195), (239, 13213),

(317, 13441), (319, 13447), (342, 13513),

Gene: BarryBee_21 Start: 14969, Stop: 15826, Start Num: 34
Candidate Starts for BarryBee_21:
(Start: 34 @14969 has 117 MA's), (70, 15041), (78, 15059), (136, 15227), (146, 15254), (218, 15449), (224, 15467), (226, 15473), (240, 15527), (273, 15641), (283, 15662), (340, 15815), (342, 15818),

Gene: BartholomewSD_21 Start: 15007, Stop: 15861, Start Num: 34
Candidate Starts for BartholomewSD_21:
(Start: 34 @15007 has 117 MA's), (Start: 60 @15061 has 2 MA's), (78, 15097), (224, 15502), (340, 15850), (342, 15853),

Gene: Bauer_20 Start: 15182, Stop: 16024, Start Num: 43
Candidate Starts for Bauer_20:
(Start: 24 @15113 has 11 MA's), (25, 15122), (28, 15140), (29, 15143), (31, 15158), (Start: 43 @15182 has 38 MA's), (45, 15185), (70, 15239), (80, 15269), (82, 15275), (93, 15314), (102, 15341), (104, 15344), (109, 15359), (129, 15407), (141, 15449), (147, 15467), (161, 15512), (173, 15548), (175, 15551), (186, 15575), (219, 15668), (236, 15713), (243, 15746), (248, 15776), (256, 15803), (260, 15815), (268, 15836), (279, 15863), (301, 15893), (316, 15947), (318, 15953), (323, 15965),

Gene: BeardedLady_20 Start: 15240, Stop: 16097, Start Num: 34
Candidate Starts for BeardedLady_20:
(Start: 34 @15240 has 117 MA's), (70, 15312), (78, 15330), (86, 15360), (95, 15393), (136, 15498), (146, 15525), (182, 15627), (199, 15672), (224, 15738), (226, 15744), (240, 15798), (243, 15810), (273, 15912), (278, 15924), (283, 15933), (340, 16086), (342, 16089),

Gene: BellaJr_20 Start: 16170, Stop: 16835, Start Num: 109
Candidate Starts for BellaJr_20:
(Start: 24 @15924 has 11 MA's), (Start: 43 @15993 has 38 MA's), (55, 16020), (78, 16071), (82, 16086), (109, 16170), (147, 16278), (157, 16308), (161, 16323), (170, 16350), (173, 16359), (186, 16386), (219, 16479), (225, 16494), (236, 16524), (243, 16557), (250, 16593), (252, 16599), (260, 16626), (270, 16653), (279, 16674), (300, 16698), (301, 16704), (306, 16716), (318, 16764), (321, 16770), (323, 16776),

Gene: BelmontSKP_18 Start: 13450, Stop: 14304, Start Num: 38
Candidate Starts for BelmontSKP_18:
(Start: 38 @13450 has 81 MA's), (71, 13525), (82, 13555), (84, 13564), (118, 13663), (125, 13678), (146, 13735), (180, 13831), (184, 13840), (229, 13957), (236, 13978), (266, 14095), (322, 14236), (342, 14296),

Gene: Bengal_17 Start: 13041, Stop: 13895, Start Num: 38
Candidate Starts for Bengal_17:
(Start: 38 @13041 has 81 MA's), (71, 13116), (82, 13146), (84, 13155), (118, 13254), (125, 13269), (146, 13326), (180, 13422), (184, 13431), (197, 13464), (229, 13548), (236, 13569), (266, 13686), (322, 13827), (342, 13887),

Gene: Benry_20 Start: 13807, Stop: 14670, Start Num: 41
Candidate Starts for Benry_20:
(Start: 41 @13807 has 11 MA's), (Start: 57 @13849 has 1 MA's), (78, 13888), (82, 13903), (109, 13984), (111, 13990), (137, 14059), (158, 14125), (184, 14194), (188, 14203), (197, 14233), (205, 14251), (239, 14368), (256, 14437), (264, 14458), (265, 14461), (273, 14485), (319, 14596), (321, 14599), (339, 14656), (340, 14659),

Gene: Bernstein_16 Start: 11669, Stop: 12526, Start Num: 38
Candidate Starts for Bernstein_16:
(Start: 38 @11669 has 81 MA's), (54, 11708), (71, 11744), (82, 11774), (85, 11786), (118, 11882), (146, 11954), (171, 12029), (180, 12050), (239, 12218), (270, 12329),

Gene: BigAnti_23 Start: 21568, Stop: 22392, Start Num: 60
Candidate Starts for BigAnti_23:
(Start: 60 @21568 has 2 MA's), (66, 21577), (73, 21595), (77, 21604), (93, 21664), (101, 21685), (107, 21700), (110, 21709), (130, 21766), (133, 21775), (151, 21820), (156, 21832), (160, 21856), (163, 21862), (176, 21901), (180, 21910), (216, 22003), (225, 22033), (234, 22063), (261, 22171), (282, 22225), (305, 22261), (320, 22321),

Gene: Bjanes7_16 Start: 13903, Stop: 14751, Start Num: 59
Candidate Starts for Bjanes7_16:
(Start: 59 @13903 has 30 MA's), (63, 13909), (110, 14044), (137, 14131), (150, 14164), (177, 14251), (179, 14254), (190, 14275), (198, 14299), (212, 14332), (275, 14554), (277, 14560), (334, 14722),

Gene: BlackSpider_18 Start: 14770, Stop: 15681, Start Num: 24
Candidate Starts for BlackSpider_18:
(1, 14101), (2, 14233), (7, 14440), (Start: 24 @14770 has 11 MA's), (Start: 43 @14839 has 38 MA's), (55, 14866), (78, 14917), (80, 14926), (82, 14932), (109, 15016), (147, 15124), (157, 15154), (161, 15169), (170, 15196), (173, 15205), (186, 15232), (219, 15325), (225, 15340), (236, 15370), (243, 15403), (250, 15439), (252, 15445), (260, 15472), (270, 15499), (300, 15544), (301, 15550), (306, 15562), (318, 15610), (321, 15616), (323, 15622),

Gene: Blett_23 Start: 13718, Stop: 14578, Start Num: 43
Candidate Starts for Blett_23:
(Start: 43 @13718 has 38 MA's), (56, 13754), (Start: 57 @13757 has 1 MA's), (70, 13778), (72, 13784), (78, 13796), (80, 13805), (82, 13811), (104, 13877), (125, 13934), (137, 13967), (169, 14060), (178, 14087), (223, 14210), (224, 14216), (234, 14249), (251, 14327), (339, 14564), (340, 14567),

Gene: Bovely_19 Start: 14999, Stop: 15856, Start Num: 34
Candidate Starts for Bovely_19:
(Start: 34 @14999 has 117 MA's), (70, 15071), (78, 15089), (86, 15119), (95, 15152), (136, 15257), (146, 15284), (182, 15386), (199, 15431), (224, 15497), (226, 15503), (240, 15557), (243, 15569), (273, 15671), (278, 15683), (283, 15692), (340, 15845), (342, 15848),

Gene: Bowden_20 Start: 14939, Stop: 15793, Start Num: 34
Candidate Starts for Bowden_20:
(Start: 34 @14939 has 117 MA's), (Start: 60 @14993 has 2 MA's), (78, 15029), (158, 15260), (224, 15434), (340, 15782), (342, 15785),

Gene: Brahms_16 Start: 11609, Stop: 12466, Start Num: 38
Candidate Starts for Brahms_16:
(Start: 38 @11609 has 81 MA's), (54, 11648), (71, 11684), (82, 11714), (85, 11726), (118, 11822), (146, 11894), (171, 11969), (180, 11990), (239, 12158), (270, 12269),

Gene: Bramble_31 Start: 17584, Stop: 18468, Start Num: 34
Candidate Starts for Bramble_31:
(19, 17485), (Start: 34 @17584 has 117 MA's), (79, 17680), (84, 17701), (112, 17785), (114, 17791), (158, 17932), (222, 18100), (243, 18181), (248, 18211), (274, 18289), (281, 18301), (283, 18304), (300, 18322), (317, 18388), (318, 18391), (319, 18394), (342, 18460), (344, 18463),

Gene: Brataylor_20 Start: 14985, Stop: 15842, Start Num: 34
Candidate Starts for Brataylor_20:
(Start: 34 @14985 has 117 MA's), (70, 15057), (136, 15243), (146, 15270), (199, 15417), (222, 15474), (223, 15477), (224, 15483), (226, 15489), (256, 15612), (283, 15678), (340, 15831), (342, 15834),

Gene: BrayBeast_17 Start: 13162, Stop: 14070, Start Num: 24
Candidate Starts for BrayBeast_17:
(Start: 24 @13162 has 11 MA's), (Start: 43 @13231 has 38 MA's), (70, 13288), (82, 13321), (93, 13360), (104, 13390), (109, 13405), (129, 13453), (157, 13543), (161, 13558), (173, 13594), (186, 13621), (188, 13627), (219, 13714), (236, 13759), (248, 13822), (250, 13828), (260, 13861), (270, 13888), (279, 13909), (300, 13933), (301, 13939), (306, 13951), (316, 13993), (318, 13999), (321, 14005), (323, 14011),

Gene: BroPlease_20 Start: 15689, Stop: 16543, Start Num: 34
Candidate Starts for BroPlease_20:
(10, 15533), (11, 15536), (Start: 34 @15689 has 117 MA's), (84, 15803), (95, 15842), (137, 15950), (155, 15992), (170, 16046), (269, 16349), (340, 16532), (342, 16535), (344, 16538),

Gene: BryanRecycles_20 Start: 15156, Stop: 16013, Start Num: 34
Candidate Starts for BryanRecycles_20:
(Start: 34 @15156 has 117 MA's), (70, 15228), (78, 15246), (95, 15309), (136, 15414), (146, 15441), (158, 15477), (182, 15543), (199, 15588), (224, 15654), (226, 15660), (243, 15726), (251, 15765), (256, 15783), (278, 15840), (300, 15867), (340, 16002), (342, 16005),

Gene: BubbaBear_17 Start: 13131, Stop: 13985, Start Num: 38
Candidate Starts for BubbaBear_17:
(Start: 38 @13131 has 81 MA's), (71, 13206), (82, 13236), (84, 13245), (118, 13344), (146, 13416), (180, 13512), (184, 13521), (197, 13554), (229, 13638), (317, 13905), (322, 13917), (342, 13977),

Gene: Buldak_16 Start: 13043, Stop: 13900, Start Num: 38
Candidate Starts for Buldak_16:
(Start: 38 @13043 has 81 MA's), (56, 13085), (82, 13145), (112, 13238), (114, 13244), (125, 13268), (134, 13292), (137, 13301), (144, 13319), (146, 13325), (180, 13421), (184, 13430), (207, 13484), (211, 13493), (226, 13538), (234, 13565), (245, 13613), (257, 13664), (309, 13787), (316, 13817), (319, 13826), (340, 13889),

Gene: Burritobowl_17 Start: 13209, Stop: 14063, Start Num: 38
Candidate Starts for Burritobowl_17:
(Start: 38 @13209 has 81 MA's), (71, 13284), (82, 13314), (84, 13323), (118, 13422), (125, 13437), (146, 13494), (180, 13590), (184, 13599), (197, 13632), (229, 13716), (236, 13737), (266, 13854), (322, 13995), (342, 14055),

Gene: Bush_23 Start: 13699, Stop: 14559, Start Num: 43
Candidate Starts for Bush_23:
(Start: 43 @13699 has 38 MA's), (56, 13735), (Start: 57 @13738 has 1 MA's), (70, 13759), (72, 13765), (78, 13777), (82, 13792), (104, 13858), (112, 13885), (125, 13915), (137, 13948), (169, 14041), (178, 14068), (223, 14191), (224, 14197), (234, 14230), (251, 14308), (339, 14545), (340, 14548),

Gene: Caelum_20 Start: 15485, Stop: 16339, Start Num: 34
Candidate Starts for Caelum_20:
(Start: 34 @15485 has 117 MA's), (46, 15503), (69, 15551), (78, 15575), (84, 15599), (88, 15614), (136, 15743), (203, 15923), (223, 15974), (224, 15980), (243, 16052), (283, 16175), (306, 16211), (323, 16274), (340, 16328), (342, 16331),

Gene: Caliburn_19 Start: 14973, Stop: 15830, Start Num: 34
Candidate Starts for Caliburn_19:
(Start: 34 @14973 has 117 MA's), (70, 15045), (78, 15063), (86, 15093), (95, 15126), (136, 15231), (146, 15258), (182, 15360), (199, 15405), (224, 15471), (226, 15477), (240, 15531), (243, 15543), (273, 15645), (278, 15657), (283, 15666), (340, 15819), (342, 15822),

Gene: CanFranMach_17 Start: 13135, Stop: 13989, Start Num: 35
Candidate Starts for CanFranMach_17:
(Start: 35 @13135 has 2 MA's), (56, 13180), (71, 13210), (82, 13240), (118, 13348), (146, 13420), (180, 13516), (184, 13525), (197, 13558), (226, 13630), (229, 13642), (234, 13657), (316, 13906), (322, 13921), (342, 13981),

Gene: Carrillo_24 Start: 13672, Stop: 14532, Start Num: 43
Candidate Starts for Carrillo_24:
(Start: 43 @13672 has 38 MA's), (56, 13708), (Start: 57 @13711 has 1 MA's), (70, 13732), (72, 13738), (78, 13750), (82, 13765), (104, 13831), (112, 13858), (125, 13888), (137, 13921), (169, 14014), (178, 14041), (223, 14164), (224, 14170), (234, 14203), (251, 14281), (339, 14518), (340, 14521),

Gene: Cashington_17 Start: 13058, Stop: 13912, Start Num: 38
Candidate Starts for Cashington_17:
(Start: 38 @13058 has 81 MA's), (71, 13133), (82, 13163), (84, 13172), (118, 13271), (125, 13286), (146, 13343), (180, 13439), (184, 13448), (197, 13481), (229, 13565), (236, 13586), (266, 13703), (322, 13844), (342, 13904),

Gene: Cassini_18 Start: 15005, Stop: 15916, Start Num: 24
Candidate Starts for Cassini_18:
(Start: 24 @15005 has 11 MA's), (Start: 43 @15074 has 38 MA's), (55, 15101), (78, 15152), (80, 15161), (82, 15167), (109, 15251), (147, 15359), (157, 15389), (161, 15404), (170, 15431), (173, 15440), (186, 15467), (211, 15545), (219, 15560), (236, 15605), (243, 15638), (250, 15674), (260, 15707), (270, 15734), (279, 15755), (300, 15779), (301, 15785), (306, 15797), (316, 15839), (318, 15845), (321, 15851), (323, 15857), (333, 15890),

Gene: Celaena_16 Start: 12603, Stop: 13457, Start Num: 38
Candidate Starts for Celaena_16:
(Start: 38 @12603 has 81 MA's), (71, 12678), (82, 12708), (95, 12756), (118, 12816), (125, 12831), (146, 12888), (159, 12927), (180, 12984), (197, 13026), (226, 13098), (236, 13131), (239, 13149), (317, 13377), (319, 13383), (342, 13449),

Gene: Celery_22 Start: 15630, Stop: 16484, Start Num: 34
Candidate Starts for Celery_22:
(Start: 34 @15630 has 117 MA's), (Start: 52 @15666 has 15 MA's), (70, 15702), (78, 15720), (84, 15744), (115, 15837), (136, 15888), (176, 16002), (182, 16017), (184, 16020), (199, 16062), (218, 16107), (222, 16116), (223, 16119), (224, 16125), (232, 16149), (332, 16449), (340, 16473), (342, 16476),

Gene: Celeste_19 Start: 14977, Stop: 15834, Start Num: 34
Candidate Starts for Celeste_19:
(Start: 34 @14977 has 117 MA's), (70, 15049), (95, 15130), (136, 15235), (146, 15262), (222, 15466), (223, 15469), (224, 15475), (243, 15547), (256, 15604), (283, 15670), (340, 15823), (342, 15826),

Gene: Celia_19 Start: 15416, Stop: 16273, Start Num: 34
Candidate Starts for Celia_19:

(Start: 34 @15416 has 117 MA's), (Start: 57 @15467 has 1 MA's), (70, 15488), (78, 15506), (84, 15530), (95, 15569), (226, 15920), (234, 15947), (243, 15986), (257, 16046), (331, 16235), (340, 16262), (342, 16265),

Gene: ChiliPepper_16 Start: 12807, Stop: 13661, Start Num: 38
Candidate Starts for ChiliPepper_16:
(Start: 38 @12807 has 81 MA's), (49, 12831), (56, 12852), (71, 12882), (82, 12912), (125, 13035), (144, 13086), (146, 13092), (229, 13314), (234, 13329), (236, 13335), (272, 13470), (317, 13581), (322, 13593), (342, 13653),

Gene: Chucky_19 Start: 14970, Stop: 15827, Start Num: 34
Candidate Starts for Chucky_19:
(Start: 34 @14970 has 117 MA's), (70, 15042), (78, 15060), (136, 15228), (146, 15255), (224, 15468), (226, 15474), (243, 15540), (256, 15597), (273, 15642), (283, 15663), (340, 15816), (342, 15819),

Gene: Cicada_22 Start: 15575, Stop: 16468, Start Num: 43
Candidate Starts for Cicada_22:
(Start: 43 @15575 has 38 MA's), (82, 15668), (111, 15755), (137, 15839), (158, 15920), (159, 15923), (205, 16046), (250, 16214), (273, 16283), (283, 16304), (285, 16307), (319, 16394), (321, 16397), (332, 16433),

Gene: Clap_16 Start: 13910, Stop: 14758, Start Num: 59
Candidate Starts for Clap_16:
(6, 13442), (27, 13823), (Start: 59 @13910 has 30 MA's), (63, 13916), (90, 14000), (110, 14051), (150, 14171), (177, 14258), (179, 14261), (187, 14273), (190, 14282), (198, 14309), (202, 14318), (212, 14339), (277, 14567), (332, 14723), (334, 14729),

Gene: Clayda5_16 Start: 11609, Stop: 12466, Start Num: 38
Candidate Starts for Clayda5_16:
(Start: 38 @11609 has 81 MA's), (54, 11648), (71, 11684), (82, 11714), (85, 11726), (118, 11822), (146, 11894), (171, 11969), (180, 11990), (239, 12158), (270, 12269),

Gene: CliffHanger_17 Start: 12643, Stop: 13500, Start Num: 38
Candidate Starts for CliffHanger_17:
(Start: 38 @12643 has 81 MA's), (82, 12745), (146, 12925), (236, 13171), (313, 13405), (322, 13432), (340, 13489), (342, 13492),

Gene: CocoCinnamon_21 Start: 14814, Stop: 15716, Start Num: 23
Candidate Starts for CocoCinnamon_21:
(Start: 23 @14814 has 4 MA's), (31, 14862), (Start: 41 @14883 has 11 MA's), (Start: 43 @14886 has 38 MA's), (93, 15015), (104, 15045), (109, 15060), (157, 15183), (161, 15198), (186, 15261), (236, 15405), (243, 15438), (250, 15474), (252, 15480), (260, 15507), (279, 15555), (318, 15645), (323, 15657),

Gene: Coltrane_16 Start: 11609, Stop: 12466, Start Num: 38
Candidate Starts for Coltrane_16:
(Start: 38 @11609 has 81 MA's), (54, 11648), (71, 11684), (82, 11714), (85, 11726), (118, 11822), (146, 11894), (171, 11969), (180, 11990), (239, 12158), (270, 12269),

Gene: Conan_20 Start: 15399, Stop: 16256, Start Num: 34
Candidate Starts for Conan_20:
(Start: 34 @15399 has 117 MA's), (Start: 52 @15435 has 15 MA's), (70, 15471), (84, 15513), (136, 15657), (182, 15786), (184, 15789), (199, 15831), (223, 15891), (224, 15897), (251, 16008), (273,

16071), (283, 16092), (332, 16221), (340, 16245), (342, 16248),

Gene: CookieDog_23 Start: 13699, Stop: 14559, Start Num: 43
Candidate Starts for CookieDog_23:
(Start: 43 @13699 has 38 MA's), (56, 13735), (Start: 57 @13738 has 1 MA's), (70, 13759), (72, 13765), (78, 13777), (82, 13792), (104, 13858), (112, 13885), (125, 13915), (137, 13948), (169, 14041), (178, 14068), (223, 14191), (224, 14197), (234, 14230), (251, 14308), (339, 14545), (340, 14548),

Gene: CroZenni_17 Start: 13041, Stop: 13895, Start Num: 38
Candidate Starts for CroZenni_17:
(Start: 38 @13041 has 81 MA's), (71, 13116), (82, 13146), (84, 13155), (118, 13254), (125, 13269), (146, 13326), (180, 13422), (184, 13431), (197, 13464), (229, 13548), (236, 13569), (266, 13686), (322, 13827), (342, 13887),

Gene: CupcakePrincess_17 Start: 13158, Stop: 14012, Start Num: 38
Candidate Starts for CupcakePrincess_17:
(Start: 38 @13158 has 81 MA's), (71, 13233), (82, 13263), (84, 13272), (118, 13371), (125, 13386), (146, 13443), (180, 13539), (184, 13548), (197, 13581), (229, 13665), (234, 13680), (236, 13686), (317, 13932), (322, 13944), (342, 14004),

Gene: Cynthia_16 Start: 13910, Stop: 14758, Start Num: 59
Candidate Starts for Cynthia_16:
(6, 13442), (27, 13823), (Start: 59 @13910 has 30 MA's), (63, 13916), (90, 14000), (110, 14051), (150, 14171), (177, 14258), (179, 14261), (187, 14273), (190, 14282), (198, 14309), (202, 14318), (212, 14339), (277, 14567), (332, 14723), (334, 14729),

Gene: Danzina_20 Start: 15187, Stop: 16044, Start Num: 34
Candidate Starts for Danzina_20:
(Start: 34 @15187 has 117 MA's), (70, 15259), (95, 15340), (136, 15445), (146, 15472), (222, 15676), (223, 15679), (224, 15685), (256, 15814), (283, 15880), (340, 16033), (342, 16036),

Gene: Dattran_20 Start: 14976, Stop: 15833, Start Num: 34
Candidate Starts for Dattran_20:
(Start: 34 @14976 has 117 MA's), (70, 15048), (95, 15129), (136, 15234), (146, 15261), (222, 15465), (223, 15468), (224, 15474), (243, 15546), (256, 15603), (283, 15669), (340, 15822), (342, 15825),

Gene: Daudau_19 Start: 14913, Stop: 15773, Start Num: 34
Candidate Starts for Daudau_19:
(Start: 34 @14913 has 117 MA's), (44, 14928), (Start: 60 @14970 has 2 MA's), (78, 15006), (95, 15069), (146, 15201), (224, 15414), (340, 15762), (342, 15765), (344, 15768),

Gene: DearBasketball_20 Start: 14347, Stop: 15189, Start Num: 52
Candidate Starts for DearBasketball_20:
(12, 14167), (Start: 34 @14308 has 117 MA's), (Start: 52 @14347 has 15 MA's), (80, 14416), (88, 14446), (94, 14467), (107, 14500), (121, 14542), (122, 14545), (182, 14686), (207, 14752), (244, 14884), (269, 14959), (292, 15013), (303, 15055), (321, 15121), (333, 15160),

Gene: DelaGarza_21 Start: 14265, Stop: 15128, Start Num: 41
Candidate Starts for DelaGarza_21:
(39, 14262), (Start: 41 @14265 has 11 MA's), (80, 14355), (82, 14361), (108, 14439), (111, 14448), (112, 14454), (138, 14520), (159, 14586), (169, 14613), (184, 14652), (224, 14769), (226, 14775), (234, 14802), (239, 14826), (273, 14943), (276, 14952), (300, 14982), (319, 15054), (339, 15114),

Gene: Denise_16 Start: 13946, Stop: 14794, Start Num: 59
Candidate Starts for Denise_16:
(Start: 59 @13946 has 30 MA's), (65, 13955), (89, 14030), (90, 14036), (116, 14108), (117, 14123), (125, 14141), (137, 14174), (150, 14207), (170, 14273), (177, 14294), (179, 14297), (185, 14306), (190, 14318), (193, 14333), (275, 14597), (277, 14603), (332, 14759), (334, 14765),

Gene: Dexers_18 Start: 15380, Stop: 16237, Start Num: 34
Candidate Starts for Dexers_18:
(Start: 34 @15380 has 117 MA's), (Start: 52 @15416 has 15 MA's), (70, 15452), (84, 15494), (136, 15638), (146, 15665), (223, 15872), (224, 15878), (232, 15902), (273, 16052), (332, 16202), (340, 16226), (342, 16229),

Gene: Diane_19 Start: 15448, Stop: 16305, Start Num: 34
Candidate Starts for Diane_19:
(Start: 34 @15448 has 117 MA's), (78, 15538), (136, 15706), (145, 15730), (158, 15769), (199, 15880), (203, 15889), (224, 15946), (240, 16006), (243, 16018), (245, 16027), (256, 16075), (283, 16141), (306, 16177), (323, 16240), (340, 16294), (342, 16297),

Gene: DickRichards_17 Start: 13536, Stop: 14390, Start Num: 38
Candidate Starts for DickRichards_17:
(Start: 38 @13536 has 81 MA's), (71, 13611), (82, 13641), (84, 13650), (118, 13749), (125, 13764), (146, 13821), (180, 13917), (184, 13926), (197, 13959), (229, 14043), (236, 14064), (266, 14181), (322, 14322), (342, 14382),

Gene: Didgeridoo_18 Start: 13268, Stop: 14122, Start Num: 38
Candidate Starts for Didgeridoo_18:
(Start: 38 @13268 has 81 MA's), (56, 13313), (71, 13343), (82, 13373), (84, 13382), (125, 13496), (146, 13553), (236, 13796), (251, 13868), (270, 13925), (317, 14042), (322, 14054), (342, 14114),

Gene: DillyDally_16 Start: 13389, Stop: 14372, Start Num: 24
Candidate Starts for DillyDally_16:
(Start: 24 @13389 has 11 MA's), (39, 13452), (Start: 43 @13458 has 38 MA's), (78, 13530), (104, 13614), (105, 13617), (109, 13629), (129, 13677), (139, 13707), (169, 13803), (189, 13854), (195, 13875), (215, 13920), (233, 13977), (236, 13992), (239, 14010), (250, 14061), (252, 14067), (258, 14088), (287, 14175), (293, 14190), (295, 14217), (328, 14331),

Gene: DinoNuggs_18 Start: 14313, Stop: 15155, Start Num: 52
Candidate Starts for DinoNuggs_18:
(5, 13857), (8, 13935), (12, 14133), (Start: 34 @14274 has 117 MA's), (Start: 52 @14313 has 15 MA's), (80, 14382), (88, 14412), (94, 14433), (107, 14466), (121, 14508), (122, 14511), (182, 14652), (207, 14718), (244, 14850), (269, 14925), (292, 14979), (303, 15021), (321, 15087), (333, 15126),

Gene: DirtyBubble_17 Start: 13092, Stop: 13946, Start Num: 38
Candidate Starts for DirtyBubble_17:
(Start: 38 @13092 has 81 MA's), (56, 13137), (71, 13167), (82, 13197), (118, 13305), (125, 13320), (146, 13377), (180, 13473), (184, 13482), (197, 13515), (236, 13620), (238, 13629), (252, 13695), (257, 13713), (266, 13737), (317, 13866), (322, 13878), (342, 13938),

Gene: Dismas_16 Start: 12807, Stop: 13661, Start Num: 38
Candidate Starts for Dismas_16:
(Start: 38 @12807 has 81 MA's), (49, 12831), (56, 12852), (71, 12882), (82, 12912), (125, 13035), (144, 13086), (146, 13092), (229, 13314), (234, 13329), (236, 13335), (272, 13470), (317, 13581), (322, 13593), (342, 13653),

Gene: Doedicurus_24 Start: 15959, Stop: 16837, Start Num: 51
Candidate Starts for Doedicurus_24:
(45, 15944), (Start: 51 @15959 has 4 MA's), (120, 16163), (150, 16256), (153, 16262), (157, 16280), (161, 16295), (200, 16397), (206, 16415), (215, 16439), (231, 16496), (301, 16703), (312, 16739), (343, 16832),

Gene: DonkeyMan_17 Start: 14102, Stop: 14944, Start Num: 52
Candidate Starts for DonkeyMan_17:
(5, 13646), (8, 13724), (12, 13922), (Start: 34 @14063 has 117 MA's), (Start: 52 @14102 has 15 MA's), (80, 14171), (88, 14201), (94, 14222), (107, 14255), (121, 14297), (122, 14300), (182, 14441), (207, 14507), (244, 14639), (269, 14714), (292, 14768), (303, 14810), (321, 14876), (333, 14915),

Gene: Doobus_17 Start: 13393, Stop: 14247, Start Num: 38
Candidate Starts for Doobus_17:
(Start: 38 @13393 has 81 MA's), (71, 13468), (82, 13498), (84, 13507), (118, 13606), (125, 13621), (146, 13678), (180, 13774), (184, 13783), (197, 13816), (229, 13900), (266, 14038), (269, 14047), (316, 14164), (322, 14179), (342, 14239),

Gene: Dropshot_22 Start: 13565, Stop: 14425, Start Num: 43
Candidate Starts for Dropshot_22:
(Start: 43 @13565 has 38 MA's), (56, 13601), (Start: 57 @13604 has 1 MA's), (70, 13625), (72, 13631), (78, 13643), (82, 13658), (104, 13724), (112, 13751), (125, 13781), (137, 13814), (169, 13907), (178, 13934), (223, 14057), (224, 14063), (234, 14096), (251, 14174), (339, 14411), (340, 14414),

Gene: Dwayne_19 Start: 14966, Stop: 15823, Start Num: 34
Candidate Starts for Dwayne_19:
(Start: 34 @14966 has 117 MA's), (70, 15038), (78, 15056), (136, 15224), (146, 15251), (218, 15446), (224, 15464), (226, 15470), (240, 15524), (273, 15638), (283, 15659), (340, 15812), (342, 15815),

Gene: ELB20_18 Start: 15035, Stop: 15892, Start Num: 34
Candidate Starts for ELB20_18:
(Start: 34 @15035 has 117 MA's), (Start: 60 @15089 has 2 MA's), (78, 15125), (136, 15293), (224, 15533), (285, 15731), (340, 15881), (342, 15884),

Gene: Ebert_16 Start: 13910, Stop: 14758, Start Num: 59
Candidate Starts for Ebert_16:
(6, 13442), (27, 13823), (Start: 59 @13910 has 30 MA's), (63, 13916), (90, 14000), (110, 14051), (150, 14171), (177, 14258), (179, 14261), (187, 14273), (190, 14282), (198, 14309), (202, 14318), (212, 14339), (277, 14567), (332, 14723), (334, 14729),

Gene: Eddasa_20 Start: 15156, Stop: 16013, Start Num: 34
Candidate Starts for Eddasa_20:
(Start: 34 @15156 has 117 MA's), (70, 15228), (78, 15246), (95, 15309), (136, 15414), (146, 15441), (158, 15477), (182, 15543), (199, 15588), (224, 15654), (226, 15660), (243, 15726), (251, 15765), (256, 15783), (278, 15840), (300, 15867), (340, 16002), (342, 16005),

Gene: Eden_16 Start: 11733, Stop: 12590, Start Num: 35
Candidate Starts for Eden_16:
(Start: 35 @11733 has 2 MA's), (56, 11778), (71, 11808), (82, 11838), (83, 11841), (118, 11946), (125, 11961), (146, 12018), (158, 12054), (180, 12114), (184, 12123), (207, 12180), (236, 12264), (251, 12336), (274, 12408), (342, 12582),

Gene: EdnaMode_16 Start: 13846, Stop: 14694, Start Num: 59
Candidate Starts for EdnaMode_16:
(27, 13759), (Start: 59 @13846 has 30 MA's), (63, 13852), (90, 13936), (110, 13987), (125, 14041), (131, 14056), (137, 14074), (150, 14107), (170, 14173), (177, 14194), (179, 14197), (190, 14218), (212, 14275), (275, 14497), (277, 14503), (332, 14659), (334, 14665),

Gene: Ejemplo_19 Start: 14966, Stop: 15823, Start Num: 34
Candidate Starts for Ejemplo_19:
(Start: 34 @14966 has 117 MA's), (70, 15038), (78, 15056), (136, 15224), (146, 15251), (224, 15464), (226, 15470), (243, 15536), (256, 15593), (273, 15638), (283, 15659), (331, 15785), (340, 15812), (342, 15815),

Gene: ElGato_20 Start: 15402, Stop: 16259, Start Num: 34
Candidate Starts for ElGato_20:
(Start: 34 @15402 has 117 MA's), (Start: 52 @15438 has 15 MA's), (70, 15474), (84, 15516), (136, 15660), (146, 15687), (182, 15789), (184, 15792), (199, 15834), (200, 15837), (223, 15894), (224, 15900), (235, 15936), (273, 16074), (332, 16224), (340, 16248), (342, 16251),

Gene: Elener_19 Start: 15583, Stop: 16464, Start Num: 41
Candidate Starts for Elener_19:
(Start: 41 @15583 has 11 MA's), (47, 15592), (75, 15658), (86, 15694), (114, 15778), (118, 15802), (146, 15883), (189, 16003), (279, 16288), (301, 16333),

Gene: Elva_18 Start: 13053, Stop: 13907, Start Num: 38
Candidate Starts for Elva_18:
(Start: 38 @13053 has 81 MA's), (56, 13098), (71, 13128), (82, 13158), (84, 13167), (118, 13266), (146, 13338), (180, 13434), (197, 13476), (226, 13548), (234, 13575), (236, 13581), (238, 13590), (251, 13653), (297, 13755), (322, 13839), (342, 13899),

Gene: Emaanora_21 Start: 14969, Stop: 15826, Start Num: 34
Candidate Starts for Emaanora_21:
(Start: 34 @14969 has 117 MA's), (70, 15041), (78, 15059), (136, 15227), (146, 15254), (218, 15449), (224, 15467), (226, 15473), (240, 15527), (273, 15641), (283, 15662), (340, 15815), (342, 15818),

Gene: EmiRose_16 Start: 13050, Stop: 13937, Start Num: 36
Candidate Starts for EmiRose_16:
(Start: 36 @13050 has 1 MA's), (48, 13068), (76, 13137), (103, 13227), (106, 13236), (116, 13269), (123, 13284), (180, 13440), (181, 13443), (184, 13449), (234, 13608), (241, 13638), (247, 13668), (249, 13680), (291, 13794), (298, 13800),

Gene: EnochSoames_21 Start: 15152, Stop: 16009, Start Num: 34
Candidate Starts for EnochSoames_21:
(Start: 34 @15152 has 117 MA's), (70, 15224), (78, 15242), (95, 15305), (136, 15410), (146, 15437), (182, 15539), (199, 15584), (224, 15650), (226, 15656), (243, 15722), (251, 15761), (256, 15779), (278, 15836), (340, 15998), (342, 16001),

Gene: Esperer_19 Start: 14993, Stop: 15850, Start Num: 34
Candidate Starts for Esperer_19:
(Start: 34 @14993 has 117 MA's), (70, 15065), (78, 15083), (86, 15113), (95, 15146), (136, 15251), (146, 15278), (182, 15380), (199, 15425), (224, 15491), (226, 15497), (240, 15551), (243, 15563), (273, 15665), (278, 15677), (283, 15686), (340, 15839), (342, 15842),

Gene: Eula_17 Start: 13119, Stop: 13973, Start Num: 38

Candidate Starts for Eula_17:
(Start: 38 @13119 has 81 MA's), (71, 13194), (82, 13224), (84, 13233), (118, 13332), (125, 13347), (146, 13404), (180, 13500), (184, 13509), (197, 13542), (229, 13626), (234, 13641), (317, 13893), (322, 13905), (342, 13965),

Gene: Eyre_16 Start: 14536, Stop: 15369, Start Num: 60
Candidate Starts for Eyre_16:
(Start: 60 @14536 has 2 MA's), (81, 14578), (116, 14686), (137, 14752), (177, 14872), (212, 14950), (266, 15145), (277, 15178), (317, 15289),

Gene: Faith5x5_16 Start: 13806, Stop: 14654, Start Num: 59
Candidate Starts for Faith5x5_16:
(Start: 59 @13806 has 30 MA's), (63, 13812), (107, 13938), (116, 13968), (117, 13983), (125, 14001), (137, 14034), (177, 14154), (179, 14157), (185, 14166), (187, 14169), (190, 14178), (193, 14193), (202, 14211), (214, 14241), (236, 14313), (277, 14463), (334, 14625),

Gene: Finalfrontier_18 Start: 13632, Stop: 14486, Start Num: 38
Candidate Starts for Finalfrontier_18:
(Start: 38 @13632 has 81 MA's), (56, 13677), (71, 13707), (82, 13737), (84, 13746), (125, 13860), (146, 13917), (236, 14160), (251, 14232), (270, 14289), (317, 14406), (322, 14418), (342, 14478),

Gene: FireCastle_20 Start: 15375, Stop: 16238, Start Num: 41
Candidate Starts for FireCastle_20:
(20, 15270), (Start: 41 @15375 has 11 MA's), (56, 15414), (82, 15471), (109, 15552), (111, 15558), (112, 15564), (125, 15594), (137, 15627), (158, 15693), (188, 15771), (197, 15801), (205, 15819), (237, 15921), (250, 15987), (255, 16002), (300, 16092), (319, 16164), (330, 16197), (332, 16203), (333, 16206), (339, 16224),

Gene: FlameThrower_16 Start: 12491, Stop: 13345, Start Num: 38
Candidate Starts for FlameThrower_16:
(Start: 38 @12491 has 81 MA's), (71, 12566), (82, 12596), (95, 12644), (118, 12704), (125, 12719), (144, 12770), (146, 12776), (159, 12815), (176, 12863), (180, 12872), (197, 12914), (226, 12986), (236, 13019), (239, 13037), (317, 13265), (319, 13271), (342, 13337),

Gene: Franklin22_17 Start: 11912, Stop: 12769, Start Num: 38
Candidate Starts for Franklin22_17:
(3, 11378), (4, 11465), (Start: 38 @11912 has 81 MA's), (71, 11987), (82, 12017), (118, 12125), (144, 12191), (146, 12197), (180, 12293), (236, 12443), (239, 12461), (251, 12515), (274, 12587), (317, 12689), (342, 12761),

Gene: FroggyToad_16 Start: 13856, Stop: 14704, Start Num: 59
Candidate Starts for FroggyToad_16:
(Start: 59 @13856 has 30 MA's), (63, 13862), (65, 13865), (116, 14018), (117, 14033), (125, 14051), (129, 14060), (136, 14081), (137, 14084), (179, 14207), (185, 14216), (187, 14219), (190, 14228), (207, 14270), (214, 14291), (236, 14363), (277, 14513), (334, 14675),

Gene: GMA4_17 Start: 16043, Stop: 16957, Start Num: 42
Candidate Starts for GMA4_17:
(18, 15926), (21, 15941), (26, 15983), (42, 16043), (109, 16232), (114, 16250), (139, 16325), (140, 16349), (172, 16448), (188, 16487), (225, 16598), (226, 16601), (234, 16634), (247, 16694), (283, 16793), (314, 16871), (317, 16880), (321, 16889), (329, 16916), (336, 16937), (337, 16943),

Gene: Gack_16 Start: 11801, Stop: 12658, Start Num: 38

Candidate Starts for Gack_16:
(Start: 38 @11801 has 81 MA's), (71, 11876), (82, 11906), (118, 12014), (125, 12029), (127, 12035), (144, 12080), (146, 12086), (175, 12170), (180, 12182), (236, 12332), (274, 12476), (317, 12578), (342, 12650),

Gene: GemG_16 Start: 13910, Stop: 14758, Start Num: 59
Candidate Starts for GemG_16:
(6, 13442), (27, 13823), (Start: 59 @13910 has 30 MA's), (63, 13916), (90, 14000), (110, 14051), (150, 14171), (177, 14258), (179, 14261), (187, 14273), (190, 14282), (198, 14309), (202, 14318), (212, 14339), (277, 14567), (332, 14723), (334, 14729),

Gene: Gingerbug_19 Start: 13474, Stop: 14337, Start Num: 41
Candidate Starts for Gingerbug_19:
(39, 13471), (Start: 41 @13474 has 11 MA's), (82, 13570), (84, 13579), (108, 13648), (111, 13657), (112, 13663), (114, 13669), (125, 13693), (137, 13726), (140, 13747), (158, 13792), (159, 13795), (169, 13822), (184, 13861), (188, 13870), (223, 13972), (224, 13978), (234, 14011), (239, 14035), (250, 14086), (265, 14128), (273, 14152), (289, 14185), (319, 14263), (330, 14296), (332, 14302), (339, 14323), (340, 14326),

Gene: GirlDinner_19 Start: 14709, Stop: 15563, Start Num: 34
Candidate Starts for GirlDinner_19:
(Start: 34 @14709 has 117 MA's), (78, 14799), (95, 14862), (158, 15030), (222, 15195), (224, 15204), (245, 15285), (266, 15360), (283, 15399), (340, 15552), (342, 15555),

Gene: Gizermo_16 Start: 13910, Stop: 14758, Start Num: 59
Candidate Starts for Gizermo_16:
(6, 13442), (27, 13823), (Start: 59 @13910 has 30 MA's), (63, 13916), (90, 14000), (110, 14051), (150, 14171), (177, 14258), (179, 14261), (187, 14273), (190, 14282), (198, 14309), (202, 14318), (212, 14339), (277, 14567), (332, 14723), (334, 14729),

Gene: Goby_19 Start: 14982, Stop: 15839, Start Num: 34
Candidate Starts for Goby_19:
(Start: 34 @14982 has 117 MA's), (70, 15054), (95, 15135), (136, 15240), (137, 15243), (146, 15267), (199, 15414), (222, 15471), (223, 15474), (224, 15480), (243, 15552), (256, 15609), (283, 15675), (340, 15828), (342, 15831),

Gene: Godpower_20 Start: 14994, Stop: 15851, Start Num: 34
Candidate Starts for Godpower_20:
(Start: 34 @14994 has 117 MA's), (70, 15066), (78, 15084), (95, 15147), (136, 15252), (146, 15279), (184, 15384), (199, 15426), (224, 15492), (240, 15552), (243, 15564), (256, 15621), (273, 15666), (283, 15687), (340, 15840), (342, 15843),

Gene: Goodman_21 Start: 15488, Stop: 16381, Start Num: 43
Candidate Starts for Goodman_21:
(Start: 43 @15488 has 38 MA's), (82, 15581), (111, 15668), (158, 15833), (159, 15836), (205, 15959), (250, 16127), (273, 16196), (283, 16217), (285, 16220), (319, 16307), (321, 16310), (322, 16313), (332, 16346),

Gene: GreenWeasel_21 Start: 15698, Stop: 16552, Start Num: 34
Candidate Starts for GreenWeasel_21:
(10, 15542), (11, 15545), (Start: 34 @15698 has 117 MA's), (84, 15812), (95, 15851), (137, 15959), (155, 16001), (170, 16055), (269, 16358), (340, 16541), (342, 16544), (344, 16547),

Gene: Grist_17 Start: 13090, Stop: 13944, Start Num: 38
Candidate Starts for Grist_17:
(Start: 38 @13090 has 81 MA's), (56, 13135), (71, 13165), (82, 13195), (84, 13204), (146, 13375), (251, 13690), (270, 13747), (317, 13864), (322, 13876), (342, 13936),

Gene: Gudmit_17 Start: 14713, Stop: 15558, Start Num: 61
Candidate Starts for Gudmit_17:
(Start: 59 @14707 has 30 MA's), (Start: 61 @14713 has 1 MA's), (90, 14800), (131, 14920), (179, 15061), (185, 15070), (198, 15106), (213, 15142), (277, 15367), (285, 15394), (304, 15427), (315, 15472), (334, 15529),

Gene: Gustav_17 Start: 14305, Stop: 15132, Start Num: 52
Candidate Starts for Gustav_17:
(Start: 52 @14305 has 15 MA's), (72, 14350), (80, 14374), (83, 14383), (98, 14437), (143, 14554), (164, 14605), (165, 14608), (186, 14653), (203, 14701), (207, 14713), (231, 14782), (236, 14797), (259, 14890), (283, 14938), (289, 14953), (292, 14959), (294, 14965), (295, 14974), (299, 14989), (306, 15010), (308, 15013), (315, 15046), (318, 15055),

Gene: Guzman_24 Start: 13980, Stop: 14840, Start Num: 43
Candidate Starts for Guzman_24:
(Start: 43 @13980 has 38 MA's), (56, 14016), (Start: 57 @14019 has 1 MA's), (70, 14040), (72, 14046), (78, 14058), (82, 14073), (104, 14139), (112, 14166), (125, 14196), (137, 14229), (169, 14322), (178, 14349), (223, 14472), (224, 14478), (234, 14511), (251, 14589), (339, 14826), (340, 14829),

Gene: Haizum_19 Start: 15480, Stop: 16337, Start Num: 34
Candidate Starts for Haizum_19:
(13, 15354), (14, 15357), (16, 15363), (Start: 34 @15480 has 117 MA's), (46, 15498), (78, 15570), (136, 15738), (158, 15801), (199, 15912), (224, 15978), (240, 16038), (243, 16050), (245, 16059), (256, 16107), (283, 16173), (306, 16209), (323, 16272), (340, 16326), (342, 16329),

Gene: Haley23_16 Start: 13910, Stop: 14758, Start Num: 59
Candidate Starts for Haley23_16:
(6, 13442), (27, 13823), (Start: 59 @13910 has 30 MA's), (63, 13916), (90, 14000), (110, 14051), (150, 14171), (177, 14258), (179, 14261), (187, 14273), (190, 14282), (198, 14309), (202, 14318), (212, 14339), (277, 14567), (332, 14723), (334, 14729),

Gene: Hank144_20 Start: 15105, Stop: 15959, Start Num: 34
Candidate Starts for Hank144_20:
(Start: 34 @15105 has 117 MA's), (Start: 60 @15159 has 2 MA's), (95, 15258), (105, 15279), (129, 15342), (170, 15462), (184, 15495), (207, 15555), (224, 15600), (266, 15756), (283, 15795), (312, 15858), (340, 15948), (342, 15951), (344, 15954),

Gene: Heinz_17 Start: 14187, Stop: 15035, Start Num: 52
Candidate Starts for Heinz_17:
(5, 13731), (12, 14007), (Start: 34 @14148 has 117 MA's), (Start: 52 @14187 has 15 MA's), (80, 14256), (88, 14286), (94, 14307), (107, 14340), (122, 14385), (168, 14499), (182, 14532), (186, 14538), (201, 14583), (207, 14598), (242, 14721), (244, 14730), (251, 14769), (262, 14802), (292, 14859), (303, 14901), (306, 14910), (318, 14961), (321, 14967), (333, 15006),

Gene: Hibiscus_17 Start: 14141, Stop: 14983, Start Num: 52
Candidate Starts for Hibiscus_17:
(Start: 34 @14102 has 117 MA's), (Start: 52 @14141 has 15 MA's), (80, 14210), (88, 14240), (94, 14261), (107, 14294), (121, 14336), (122, 14339), (207, 14546), (244, 14678), (262, 14750), (292,

14807), (303, 14849), (306, 14858), (318, 14909), (321, 14915), (333, 14954),

Gene: Hippo_19 Start: 14969, Stop: 15826, Start Num: 34
Candidate Starts for Hippo_19:
(Start: 34 @14969 has 117 MA's), (70, 15041), (78, 15059), (136, 15227), (146, 15254), (218, 15449), (224, 15467), (226, 15473), (240, 15527), (273, 15641), (283, 15662), (340, 15815), (342, 15818),

Gene: Htur_20 Start: 15518, Stop: 16411, Start Num: 43
Candidate Starts for Htur_20:
(Start: 43 @15518 has 38 MA's), (82, 15611), (84, 15620), (111, 15698), (125, 15749), (158, 15863), (159, 15866), (161, 15872), (184, 15932), (249, 16154), (250, 16157), (273, 16226), (283, 16247), (285, 16250), (312, 16310), (332, 16376),

Gene: Hum25_18 Start: 12574, Stop: 13560, Start Num: 22
Candidate Starts for Hum25_18:
(Start: 22 @12574 has 3 MA's), (32, 12628), (39, 12640), (Start: 43 @12646 has 38 MA's), (71, 12706), (72, 12709), (74, 12712), (82, 12736), (109, 12820), (117, 12859), (139, 12898), (200, 13078), (225, 13144), (233, 13168), (236, 13183), (245, 13225), (255, 13270), (290, 13372), (294, 13396), (325, 13510), (335, 13540),

Gene: Hydra_21 Start: 15521, Stop: 16378, Start Num: 34
Candidate Starts for Hydra_21:
(Start: 34 @15521 has 117 MA's), (70, 15593), (78, 15611), (86, 15641), (95, 15674), (136, 15779), (146, 15806), (182, 15908), (199, 15953), (224, 16019), (226, 16025), (240, 16079), (243, 16091), (273, 16193), (278, 16205), (283, 16214), (340, 16367), (342, 16370),

Gene: Icarian_18 Start: 12974, Stop: 13828, Start Num: 38
Candidate Starts for Icarian_18:
(Start: 38 @12974 has 81 MA's), (56, 13019), (71, 13049), (82, 13079), (118, 13187), (125, 13202), (146, 13259), (180, 13355), (184, 13364), (197, 13397), (229, 13481), (236, 13502), (238, 13511), (239, 13520), (257, 13595), (266, 13619), (317, 13748), (322, 13760), (342, 13820),

Gene: IndiRoo_20 Start: 13817, Stop: 14680, Start Num: 41
Candidate Starts for IndiRoo_20:
(Start: 41 @13817 has 11 MA's), (78, 13898), (82, 13913), (109, 13994), (111, 14000), (137, 14069), (142, 14096), (158, 14135), (184, 14204), (188, 14213), (197, 14243), (205, 14261), (239, 14378), (246, 14405), (257, 14450), (265, 14471), (319, 14606), (321, 14609), (330, 14639), (332, 14645), (339, 14666), (340, 14669),

Gene: Indigo_19 Start: 14993, Stop: 15850, Start Num: 34
Candidate Starts for Indigo_19:
(Start: 34 @14993 has 117 MA's), (70, 15065), (78, 15083), (86, 15113), (95, 15146), (136, 15251), (146, 15278), (182, 15380), (199, 15425), (224, 15491), (226, 15497), (240, 15551), (243, 15563), (273, 15665), (278, 15677), (283, 15686), (340, 15839), (342, 15842),

Gene: IndyLu_17 Start: 13090, Stop: 13944, Start Num: 38
Candidate Starts for IndyLu_17:
(Start: 38 @13090 has 81 MA's), (56, 13135), (71, 13165), (82, 13195), (84, 13204), (146, 13375), (236, 13618), (251, 13690), (270, 13747), (317, 13864), (322, 13876), (342, 13936),

Gene: Isperia_23 Start: 15256, Stop: 16134, Start Num: 51
Candidate Starts for Isperia_23:

(45, 15241), (Start: 51 @15256 has 4 MA's), (120, 15460), (150, 15553), (153, 15559), (157, 15577), (161, 15592), (206, 15712), (215, 15736), (231, 15793), (301, 16000), (312, 16036), (343, 16129),

Gene: Issmi_20 Start: 15911, Stop: 16768, Start Num: 34
Candidate Starts for Issmi_20:
(Start: 34 @15911 has 117 MA's), (46, 15929), (69, 15977), (78, 16001), (86, 16031), (104, 16082), (136, 16169), (199, 16343), (203, 16352), (212, 16373), (224, 16409), (226, 16415), (243, 16481), (249, 16514), (283, 16604), (285, 16607), (306, 16640), (323, 16703), (340, 16757), (342, 16760),

Gene: Itza_19 Start: 15339, Stop: 16196, Start Num: 34
Candidate Starts for Itza_19:
(Start: 34 @15339 has 117 MA's), (Start: 57 @15390 has 1 MA's), (70, 15411), (78, 15429), (84, 15453), (95, 15492), (226, 15843), (234, 15870), (243, 15909), (257, 15969), (331, 16158), (340, 16185), (342, 16188),

Gene: Izzy_20 Start: 15203, Stop: 16060, Start Num: 34
Candidate Starts for Izzy_20:
(Start: 34 @15203 has 117 MA's), (70, 15275), (78, 15293), (95, 15356), (136, 15461), (146, 15488), (158, 15524), (182, 15590), (199, 15635), (224, 15701), (226, 15707), (243, 15773), (251, 15812), (256, 15830), (278, 15887), (300, 15914), (340, 16049), (342, 16052),

Gene: JCole_16 Start: 13901, Stop: 14749, Start Num: 59
Candidate Starts for JCole_16:
(27, 13814), (Start: 59 @13901 has 30 MA's), (63, 13907), (Start: 68 @13913 has 1 MA's), (110, 14042), (125, 14096), (137, 14129), (150, 14162), (177, 14249), (179, 14252), (190, 14273), (212, 14330), (275, 14552), (277, 14558), (334, 14720),

Gene: Jabb_17 Start: 13158, Stop: 14012, Start Num: 38
Candidate Starts for Jabb_17:
(Start: 38 @13158 has 81 MA's), (71, 13233), (82, 13263), (84, 13272), (118, 13371), (125, 13386), (146, 13443), (180, 13539), (184, 13548), (197, 13581), (229, 13665), (234, 13680), (236, 13686), (317, 13932), (322, 13944), (342, 14004),

Gene: Jace_16 Start: 13933, Stop: 14742, Start Num: 68
Candidate Starts for Jace_16:
(Start: 68 @13933 has 1 MA's), (90, 14011), (109, 14062), (125, 14119), (131, 14134), (136, 14149), (152, 14176), (174, 14251), (196, 14305), (255, 14503), (307, 14614), (319, 14665), (330, 14698), (332, 14704),

Gene: Jakelyne_24 Start: 13781, Stop: 14641, Start Num: 43
Candidate Starts for Jakelyne_24:
(Start: 43 @13781 has 38 MA's), (56, 13817), (Start: 57 @13820 has 1 MA's), (70, 13841), (72, 13847), (78, 13859), (82, 13874), (104, 13940), (112, 13967), (125, 13997), (137, 14030), (169, 14123), (178, 14150), (214, 14243), (223, 14273), (224, 14279), (234, 14312), (251, 14390), (339, 14627), (340, 14630),

Gene: Jalleen_17 Start: 13903, Stop: 14751, Start Num: 59
Candidate Starts for Jalleen_17:
(Start: 59 @13903 has 30 MA's), (63, 13909), (110, 14044), (137, 14131), (150, 14164), (177, 14251), (179, 14254), (190, 14275), (198, 14299), (277, 14560), (334, 14722),

Gene: Janus_20 Start: 15047, Stop: 15901, Start Num: 34
Candidate Starts for Janus_20:

(Start: 34 @15047 has 117 MA's), (78, 15137), (95, 15200), (222, 15533), (224, 15542), (245, 15623), (266, 15698), (283, 15737), (314, 15812), (340, 15890), (342, 15893),

Gene: Jash_20 Start: 15156, Stop: 16013, Start Num: 34
Candidate Starts for Jash_20:
(Start: 34 @15156 has 117 MA's), (70, 15228), (78, 15246), (95, 15309), (136, 15414), (146, 15441), (158, 15477), (182, 15543), (199, 15588), (224, 15654), (226, 15660), (243, 15726), (251, 15765), (256, 15783), (278, 15840), (300, 15867), (340, 16002), (342, 16005),

Gene: JeanClaude_17 Start: 13138, Stop: 13977, Start Num: 43
Candidate Starts for JeanClaude_17:
(Start: 24 @13069 has 11 MA's), (Start: 43 @13138 has 38 MA's), (82, 13228), (93, 13267), (104, 13297), (109, 13312), (129, 13360), (157, 13450), (161, 13465), (173, 13501), (186, 13528), (188, 13534), (219, 13621), (236, 13666), (248, 13729), (250, 13735), (260, 13768), (270, 13795), (300, 13840), (301, 13846), (306, 13858), (318, 13906), (321, 13912), (323, 13918),

Gene: Jera_21 Start: 14585, Stop: 15478, Start Num: 43
Candidate Starts for Jera_21:
(Start: 43 @14585 has 38 MA's), (82, 14678), (84, 14687), (111, 14765), (125, 14816), (142, 14876), (158, 14930), (159, 14933), (161, 14939), (249, 15221), (250, 15224), (273, 15293), (283, 15314), (285, 15317), (312, 15377), (332, 15443),

Gene: Jevington_21 Start: 15349, Stop: 16206, Start Num: 34
Candidate Starts for Jevington_21:
(Start: 34 @15349 has 117 MA's), (78, 15439), (158, 15670), (224, 15847), (283, 16042), (340, 16195), (342, 16198),

Gene: Jhitchelle_18 Start: 15308, Stop: 16165, Start Num: 34
Candidate Starts for Jhitchelle_18:
(Start: 34 @15308 has 117 MA's), (Start: 52 @15344 has 15 MA's), (70, 15380), (84, 15422), (135, 15563), (136, 15566), (161, 15638), (180, 15689), (184, 15698), (223, 15800), (224, 15806), (273, 15980), (283, 16001), (332, 16130), (340, 16154), (342, 16157),

Gene: Johann_21 Start: 15488, Stop: 16381, Start Num: 43
Candidate Starts for Johann_21:
(Start: 43 @15488 has 38 MA's), (82, 15581), (111, 15668), (158, 15833), (159, 15836), (205, 15959), (250, 16127), (273, 16196), (283, 16217), (285, 16220), (319, 16307), (321, 16310), (322, 16313), (332, 16346),

Gene: Johnathan_17 Start: 13145, Stop: 13999, Start Num: 38
Candidate Starts for Johnathan_17:
(Start: 38 @13145 has 81 MA's), (71, 13220), (82, 13250), (84, 13259), (118, 13358), (125, 13373), (146, 13430), (180, 13526), (184, 13535), (197, 13568), (229, 13652), (236, 13673), (266, 13790), (322, 13931), (342, 13991),

Gene: Jojo24_17 Start: 14138, Stop: 14980, Start Num: 52
Candidate Starts for Jojo24_17:
(Start: 34 @14099 has 117 MA's), (Start: 52 @14138 has 15 MA's), (80, 14207), (88, 14237), (94, 14258), (107, 14291), (121, 14333), (122, 14336), (207, 14543), (244, 14675), (292, 14804), (303, 14846), (318, 14906), (321, 14912), (333, 14951),

Gene: Jovita_17 Start: 13220, Stop: 14074, Start Num: 38
Candidate Starts for Jovita_17:

(Start: 38 @13220 has 81 MA's), (71, 13295), (82, 13325), (84, 13334), (109, 13406), (118, 13433), (125, 13448), (146, 13505), (180, 13601), (184, 13610), (197, 13643), (229, 13727), (234, 13742), (317, 13994), (322, 14006), (342, 14066),

Gene: Kaine_19 Start: 15380, Stop: 16237, Start Num: 34
Candidate Starts for Kaine_19:
(Start: 34 @15380 has 117 MA's), (Start: 52 @15416 has 15 MA's), (70, 15452), (84, 15494), (136, 15638), (146, 15665), (223, 15872), (224, 15878), (232, 15902), (273, 16052), (332, 16202), (340, 16226), (342, 16229),

Gene: Kamdara_16 Start: 12806, Stop: 13660, Start Num: 38
Candidate Starts for Kamdara_16:
(Start: 38 @12806 has 81 MA's), (49, 12830), (56, 12851), (71, 12881), (82, 12911), (125, 13034), (144, 13085), (146, 13091), (229, 13313), (234, 13328), (236, 13334), (272, 13469), (317, 13580), (322, 13592), (342, 13652),

Gene: Katalie_20 Start: 15234, Stop: 16091, Start Num: 34
Candidate Starts for Katalie_20:
(Start: 34 @15234 has 117 MA's), (70, 15306), (78, 15324), (136, 15492), (146, 15519), (184, 15624), (224, 15732), (226, 15738), (243, 15804), (283, 15927), (340, 16080), (342, 16083),

Gene: Kate33_17 Start: 13089, Stop: 13943, Start Num: 38
Candidate Starts for Kate33_17:
(Start: 38 @13089 has 81 MA's), (56, 13134), (71, 13164), (82, 13194), (84, 13203), (146, 13374), (251, 13689), (270, 13746), (317, 13863), (322, 13875), (342, 13935),

Gene: Katzastrophic_16 Start: 12666, Stop: 13520, Start Num: 38
Candidate Starts for Katzastrophic_16:
(Start: 38 @12666 has 81 MA's), (71, 12741), (82, 12771), (95, 12819), (118, 12879), (125, 12894), (144, 12945), (146, 12951), (159, 12990), (176, 13038), (180, 13047), (197, 13089), (236, 13194), (239, 13212), (317, 13440), (319, 13446), (342, 13512),

Gene: Kenzers_17 Start: 13132, Stop: 13986, Start Num: 38
Candidate Starts for Kenzers_17:
(Start: 38 @13132 has 81 MA's), (71, 13207), (82, 13237), (84, 13246), (118, 13345), (146, 13417), (180, 13513), (184, 13522), (197, 13555), (229, 13639), (236, 13660), (257, 13753), (266, 13777), (269, 13786), (300, 13840), (316, 13903), (322, 13918), (342, 13978),

Gene: Khuang_15 Start: 13016, Stop: 13963, Start Num: 23
Candidate Starts for Khuang_15:
(Start: 17 @12965 has 1 MA's), (Start: 23 @13016 has 4 MA's), (Start: 24 @13019 has 11 MA's), (74, 13160), (82, 13187), (85, 13199), (91, 13223), (93, 13226), (144, 13388), (147, 13397), (170, 13469), (181, 13496), (236, 13652), (254, 13736), (263, 13760), (300, 13826), (303, 13835), (338, 13952), (341, 13958),

Gene: Kieran_16 Start: 12810, Stop: 13664, Start Num: 38
Candidate Starts for Kieran_16:
(Start: 38 @12810 has 81 MA's), (49, 12834), (56, 12855), (71, 12885), (82, 12915), (125, 13038), (144, 13089), (146, 13095), (229, 13317), (234, 13332), (236, 13338), (272, 13473), (317, 13584), (322, 13596), (342, 13656),

Gene: Kors_31 Start: 17664, Stop: 18548, Start Num: 34
Candidate Starts for Kors_31:

(19, 17565), (Start: 34 @17664 has 117 MA's), (79, 17760), (84, 17781), (112, 17865), (114, 17871), (158, 18012), (222, 18180), (243, 18261), (248, 18291), (274, 18369), (281, 18381), (283, 18384), (300, 18402), (317, 18468), (318, 18471), (319, 18474), (342, 18540), (344, 18543),

Gene: Kumotta_18 Start: 14074, Stop: 15051, Start Num: 24
Candidate Starts for Kumotta_18:
(Start: 24 @14074 has 11 MA's), (31, 14119), (Start: 41 @14140 has 11 MA's), (Start: 43 @14143 has 38 MA's), (70, 14197), (74, 14206), (78, 14215), (109, 14314), (129, 14362), (139, 14392), (200, 14572), (201, 14575), (233, 14659), (252, 14749), (258, 14770), (270, 14803), (279, 14839), (284, 14848), (296, 14902), (300, 14914), (327, 15007), (332, 15022), (335, 15031),

Gene: Labella_22 Start: 15468, Stop: 16361, Start Num: 43
Candidate Starts for Labella_22:
(Start: 43 @15468 has 38 MA's), (82, 15561), (84, 15570), (111, 15648), (125, 15699), (142, 15759), (158, 15813), (159, 15816), (161, 15822), (249, 16104), (250, 16107), (273, 16176), (283, 16197), (285, 16200), (312, 16260), (332, 16326),

Gene: Lahqtemish_17 Start: 13135, Stop: 13989, Start Num: 38
Candidate Starts for Lahqtemish_17:
(Start: 38 @13135 has 81 MA's), (56, 13180), (71, 13210), (82, 13240), (146, 13420), (236, 13663), (239, 13681), (251, 13735), (270, 13792), (317, 13909), (322, 13921), (342, 13981),

Gene: Lamberg_16 Start: 13846, Stop: 14694, Start Num: 59
Candidate Starts for Lamberg_16:
(27, 13759), (Start: 59 @13846 has 30 MA's), (63, 13852), (90, 13936), (110, 13987), (125, 14041), (131, 14056), (137, 14074), (150, 14107), (170, 14173), (177, 14194), (179, 14197), (190, 14218), (212, 14275), (275, 14497), (277, 14503), (332, 14659), (334, 14665),

Gene: Lannister_20 Start: 15000, Stop: 15857, Start Num: 34
Candidate Starts for Lannister_20:
(Start: 34 @15000 has 117 MA's), (70, 15072), (78, 15090), (86, 15120), (136, 15258), (146, 15285), (199, 15432), (223, 15492), (224, 15498), (226, 15504), (240, 15558), (243, 15570), (273, 15672), (283, 15693), (340, 15846), (342, 15849),

Gene: Legacy_19 Start: 14964, Stop: 15821, Start Num: 34
Candidate Starts for Legacy_19:
(Start: 34 @14964 has 117 MA's), (70, 15036), (78, 15054), (86, 15084), (95, 15117), (136, 15222), (146, 15249), (182, 15351), (199, 15396), (224, 15462), (226, 15468), (240, 15522), (243, 15534), (273, 15636), (278, 15648), (283, 15657), (340, 15810), (342, 15813),

Gene: Lesiram_22 Start: 14235, Stop: 15098, Start Num: 41
Candidate Starts for Lesiram_22:
(39, 14232), (Start: 41 @14235 has 11 MA's), (80, 14325), (82, 14331), (84, 14340), (108, 14409), (111, 14418), (112, 14424), (138, 14490), (159, 14556), (169, 14583), (184, 14622), (224, 14739), (226, 14745), (234, 14772), (239, 14796), (273, 14913), (276, 14922), (300, 14952), (332, 15063), (339, 15084),

Gene: Leviticus_19 Start: 14993, Stop: 15850, Start Num: 34
Candidate Starts for Leviticus_19:
(Start: 34 @14993 has 117 MA's), (70, 15065), (78, 15083), (86, 15113), (95, 15146), (136, 15251), (146, 15278), (182, 15380), (199, 15425), (224, 15491), (226, 15497), (240, 15551), (243, 15563), (273, 15665), (278, 15677), (283, 15686), (340, 15839), (342, 15842),

Gene: Lika_19 Start: 14998, Stop: 15855, Start Num: 34
Candidate Starts for Lika_19:
(Start: 34 @14998 has 117 MA's), (70, 15070), (78, 15088), (95, 15151), (136, 15256), (146, 15283), (184, 15388), (199, 15430), (224, 15496), (240, 15556), (243, 15568), (256, 15625), (273, 15670), (283, 15691), (340, 15844), (342, 15847),

Gene: Lilo27_17 Start: 13092, Stop: 13946, Start Num: 38
Candidate Starts for Lilo27_17:
(Start: 38 @13092 has 81 MA's), (71, 13167), (82, 13197), (84, 13206), (118, 13305), (125, 13320), (146, 13377), (180, 13473), (184, 13482), (197, 13515), (229, 13599), (234, 13614), (317, 13866), (322, 13878), (342, 13938),

Gene: LimaBean_17 Start: 13144, Stop: 13998, Start Num: 38
Candidate Starts for LimaBean_17:
(Start: 38 @13144 has 81 MA's), (71, 13219), (82, 13249), (84, 13258), (118, 13357), (125, 13372), (146, 13429), (180, 13525), (184, 13534), (197, 13567), (229, 13651), (236, 13672), (266, 13789), (322, 13930), (342, 13990),

Gene: Linayshia_20 Start: 15510, Stop: 16403, Start Num: 43
Candidate Starts for Linayshia_20:
(Start: 43 @15510 has 38 MA's), (82, 15603), (111, 15690), (125, 15741), (158, 15855), (159, 15858), (161, 15864), (184, 15924), (249, 16146), (250, 16149), (273, 16218), (283, 16239), (285, 16242),

Gene: Loofah_20 Start: 14964, Stop: 15821, Start Num: 34
Candidate Starts for Loofah_20:
(Start: 34 @14964 has 117 MA's), (Start: 60 @15018 has 2 MA's), (78, 15054), (224, 15462), (285, 15660), (340, 15810), (342, 15813),

Gene: LordBart_31 Start: 17580, Stop: 18464, Start Num: 34
Candidate Starts for LordBart_31:
(19, 17481), (Start: 34 @17580 has 117 MA's), (79, 17676), (84, 17697), (112, 17781), (114, 17787), (158, 17928), (243, 18177), (248, 18207), (274, 18285), (281, 18297), (283, 18300), (300, 18318), (317, 18384), (318, 18387), (319, 18390), (342, 18456), (344, 18459),

Gene: LordFarquaad_16 Start: 13903, Stop: 14751, Start Num: 59
Candidate Starts for LordFarquaad_16:
(Start: 59 @13903 has 30 MA's), (63, 13909), (110, 14044), (137, 14131), (150, 14164), (177, 14251), (179, 14254), (190, 14275), (198, 14299), (212, 14332), (275, 14554), (277, 14560), (334, 14722),

Gene: Lorelei_19 Start: 14967, Stop: 15824, Start Num: 34
Candidate Starts for Lorelei_19:
(Start: 34 @14967 has 117 MA's), (70, 15039), (86, 15087), (95, 15120), (136, 15225), (146, 15252), (168, 15315), (184, 15357), (222, 15456), (223, 15459), (224, 15465), (243, 15537), (256, 15594), (278, 15651), (283, 15660), (340, 15813), (342, 15816),

Gene: Losacky_24 Start: 13845, Stop: 14705, Start Num: 43
Candidate Starts for Losacky_24:
(Start: 43 @13845 has 38 MA's), (56, 13881), (Start: 57 @13884 has 1 MA's), (70, 13905), (72, 13911), (78, 13923), (82, 13938), (104, 14004), (112, 14031), (125, 14061), (137, 14094), (169, 14187), (178, 14214), (223, 14337), (224, 14343), (234, 14376), (251, 14454), (339, 14691), (340, 14694),

Gene: Loviatar_17 Start: 13062, Stop: 13919, Start Num: 38
Candidate Starts for Loviatar_17:

(Start: 38 @13062 has 81 MA's), (49, 13086), (56, 13107), (71, 13137), (82, 13167), (85, 13179), (118, 13275), (125, 13290), (127, 13296), (146, 13347), (168, 13410), (180, 13443), (197, 13485), (236, 13590), (238, 13599), (239, 13608), (265, 13704), (317, 13839), (322, 13851), (342, 13911),

Gene: Lton_16 Start: 13875, Stop: 14723, Start Num: 59
Candidate Starts for Lton_16:
(27, 13788), (Start: 59 @13875 has 30 MA's), (63, 13881), (90, 13965), (110, 14016), (125, 14070), (137, 14103), (150, 14136), (170, 14202), (177, 14223), (179, 14226), (190, 14247), (212, 14304), (275, 14526), (277, 14532), (332, 14688), (334, 14694),

Gene: Lynlen_17 Start: 13132, Stop: 13986, Start Num: 38
Candidate Starts for Lynlen_17:
(Start: 38 @13132 has 81 MA's), (71, 13207), (82, 13237), (84, 13246), (118, 13345), (146, 13417), (180, 13513), (184, 13522), (197, 13555), (229, 13639), (236, 13660), (257, 13753), (266, 13777), (269, 13786), (300, 13840), (316, 13903), (322, 13918), (342, 13978),

Gene: Mahdia_17 Start: 13987, Stop: 14814, Start Num: 52
Candidate Starts for Mahdia_17:
(Start: 52 @13987 has 15 MA's), (72, 14032), (80, 14056), (98, 14119), (143, 14236), (165, 14290), (203, 14383), (207, 14395), (231, 14464), (239, 14497), (259, 14572), (283, 14620), (289, 14635), (294, 14647), (299, 14671), (300, 14674), (306, 14692), (308, 14695), (333, 14782), (337, 14797),

Gene: Maja_17 Start: 13790, Stop: 14692, Start Num: 23
Candidate Starts for Maja_17:
(Start: 23 @13790 has 4 MA's), (31, 13838), (Start: 41 @13859 has 11 MA's), (Start: 43 @13862 has 38 MA's), (87, 13973), (93, 13991), (102, 14018), (104, 14021), (109, 14036), (129, 14084), (157, 14159), (161, 14174), (173, 14210), (186, 14237), (236, 14381), (243, 14414), (252, 14456), (260, 14483), (279, 14531), (306, 14573), (318, 14621), (323, 14633),

Gene: Malibo_19 Start: 15676, Stop: 16518, Start Num: 52
Candidate Starts for Malibo_19:
(Start: 52 @15676 has 15 MA's), (80, 15745), (86, 15766), (96, 15802), (107, 15829), (111, 15841), (128, 15886), (143, 15925), (166, 15979), (186, 16024), (192, 16048), (227, 16153), (234, 16177), (241, 16207), (242, 16213), (251, 16255), (259, 16282), (262, 16288), (306, 16396), (314, 16438), (316, 16444), (321, 16456), (336, 16498),

Gene: Maneekul_19 Start: 14965, Stop: 15822, Start Num: 34
Candidate Starts for Maneekul_19:
(Start: 34 @14965 has 117 MA's), (70, 15037), (78, 15055), (136, 15223), (146, 15250), (224, 15463), (226, 15469), (243, 15535), (256, 15592), (273, 15637), (283, 15658), (331, 15784), (340, 15811), (342, 15814),

Gene: Marav_22 Start: 15699, Stop: 16556, Start Num: 34
Candidate Starts for Marav_22:
(Start: 34 @15699 has 117 MA's), (78, 15789), (158, 16020), (170, 16056), (224, 16197), (283, 16392), (340, 16545), (342, 16548),

Gene: MargaretKali_18 Start: 13709, Stop: 14686, Start Num: 24
Candidate Starts for MargaretKali_18:
(Start: 24 @13709 has 11 MA's), (31, 13754), (Start: 41 @13775 has 11 MA's), (Start: 43 @13778 has 38 MA's), (70, 13832), (74, 13841), (78, 13850), (109, 13949), (129, 13997), (139, 14027), (200, 14207), (201, 14210), (233, 14294), (252, 14384), (258, 14405), (270, 14438), (279, 14474), (284, 14483), (296, 14537), (300, 14549), (327, 14642), (332, 14657), (335, 14666),

Gene: Mariel_24 Start: 14137, Stop: 14997, Start Num: 43
Candidate Starts for Mariel_24:
(Start: 43 @14137 has 38 MA's), (56, 14173), (Start: 57 @14176 has 1 MA's), (70, 14197), (72, 14203), (78, 14215), (80, 14224), (82, 14230), (112, 14323), (125, 14353), (137, 14386), (169, 14479), (178, 14506), (223, 14629), (224, 14635), (234, 14668), (251, 14746), (321, 14926), (339, 14983), (340, 14986),

Gene: Matteo_16 Start: 13846, Stop: 14694, Start Num: 59
Candidate Starts for Matteo_16:
(27, 13759), (Start: 59 @13846 has 30 MA's), (63, 13852), (89, 13930), (90, 13936), (110, 13987), (137, 14074), (150, 14107), (177, 14194), (179, 14197), (190, 14218), (212, 14275), (275, 14497), (277, 14503), (334, 14665),

Gene: Mbo4_16 Start: 14927, Stop: 15760, Start Num: 60
Candidate Starts for Mbo4_16:
(Start: 60 @14927 has 2 MA's), (92, 15017), (116, 15086), (118, 15104), (129, 15128), (136, 15149), (145, 15173), (183, 15278), (226, 15401), (241, 15464), (250, 15509), (256, 15530), (257, 15533), (258, 15536),

Gene: MenE_23 Start: 13833, Stop: 14693, Start Num: 43
Candidate Starts for MenE_23:
(Start: 43 @13833 has 38 MA's), (56, 13869), (Start: 57 @13872 has 1 MA's), (70, 13893), (72, 13899), (78, 13911), (82, 13926), (104, 13992), (112, 14019), (125, 14049), (137, 14082), (169, 14175), (178, 14202), (223, 14325), (224, 14331), (234, 14364), (251, 14442), (339, 14679), (340, 14682),

Gene: Milani_21 Start: 14466, Stop: 15329, Start Num: 41
Candidate Starts for Milani_21:
(Start: 41 @14466 has 11 MA's), (78, 14547), (82, 14562), (109, 14643), (111, 14649), (140, 14739), (158, 14784), (184, 14853), (188, 14862), (197, 14892), (205, 14910), (234, 15003), (239, 15027), (255, 15093), (319, 15255), (330, 15288), (339, 15315), (340, 15318),

Gene: Milomuff_18 Start: 13530, Stop: 14384, Start Num: 38
Candidate Starts for Milomuff_18:
(Start: 38 @13530 has 81 MA's), (71, 13605), (82, 13635), (84, 13644), (118, 13743), (125, 13758), (146, 13815), (180, 13911), (184, 13920), (197, 13953), (229, 14037), (236, 14058), (266, 14175), (269, 14184), (316, 14301), (322, 14316), (342, 14376),

Gene: Mocha12_16 Start: 13910, Stop: 14758, Start Num: 59
Candidate Starts for Mocha12_16:
(6, 13442), (27, 13823), (Start: 59 @13910 has 30 MA's), (63, 13916), (90, 14000), (110, 14051), (150, 14171), (177, 14258), (179, 14261), (187, 14273), (190, 14282), (198, 14309), (202, 14318), (212, 14339), (277, 14567), (332, 14723), (334, 14729),

Gene: Moosehead_16 Start: 13815, Stop: 14663, Start Num: 59
Candidate Starts for Moosehead_16:
(Start: 59 @13815 has 30 MA's), (63, 13821), (117, 13992), (125, 14010), (137, 14043), (177, 14163), (179, 14166), (185, 14175), (187, 14178), (190, 14187), (214, 14250), (236, 14322), (277, 14472), (334, 14634),

Gene: Morrissey_18 Start: 15201, Stop: 16028, Start Num: 52
Candidate Starts for Morrissey_18:

(Start: 52 @15201 has 15 MA's), (72, 15246), (80, 15270), (96, 15327), (98, 15333), (107, 15354), (119, 15390), (126, 15405), (164, 15501), (165, 15504), (203, 15597), (207, 15609), (231, 15678), (259, 15786), (283, 15834), (289, 15849), (294, 15861), (299, 15885), (308, 15909), (315, 15942), (318, 15951), (331, 15990), (333, 15996),

Gene: MrSmee_17 Start: 12921, Stop: 13763, Start Num: 43
Candidate Starts for MrSmee_17:
(Start: 24 @12852 has 11 MA's), (Start: 43 @12921 has 38 MA's), (55, 12948), (78, 12999), (80, 13008), (82, 13014), (87, 13035), (104, 13083), (109, 13098), (147, 13206), (157, 13236), (161, 13251), (170, 13278), (173, 13287), (186, 13314), (219, 13407), (230, 13437), (236, 13452), (243, 13485), (252, 13527), (260, 13554), (279, 13602), (316, 13686), (318, 13692), (321, 13698), (323, 13704),

Gene: MsUbiquitous_17 Start: 13158, Stop: 14012, Start Num: 38
Candidate Starts for MsUbiquitous_17:
(Start: 38 @13158 has 81 MA's), (71, 13233), (82, 13263), (84, 13272), (118, 13371), (125, 13386), (146, 13443), (180, 13539), (184, 13548), (197, 13581), (229, 13665), (234, 13680), (236, 13686), (317, 13932), (322, 13944), (342, 14004),

Gene: NCRodriguez_24 Start: 13894, Stop: 14754, Start Num: 43
Candidate Starts for NCRodriguez_24:
(Start: 43 @13894 has 38 MA's), (56, 13930), (Start: 57 @13933 has 1 MA's), (70, 13954), (72, 13960), (78, 13972), (82, 13987), (104, 14053), (112, 14080), (125, 14110), (137, 14143), (169, 14236), (178, 14263), (223, 14386), (224, 14392), (234, 14425), (251, 14503), (339, 14740), (340, 14743),

Gene: Nabi_19 Start: 14967, Stop: 15824, Start Num: 34
Candidate Starts for Nabi_19:
(Start: 34 @14967 has 117 MA's), (70, 15039), (86, 15087), (95, 15120), (136, 15225), (146, 15252), (168, 15315), (184, 15357), (222, 15456), (223, 15459), (224, 15465), (243, 15537), (256, 15594), (278, 15651), (283, 15660), (340, 15813), (342, 15816),

Gene: Nanodon_21 Start: 15175, Stop: 16032, Start Num: 34
Candidate Starts for Nanodon_21:
(Start: 34 @15175 has 117 MA's), (70, 15247), (78, 15265), (95, 15328), (136, 15433), (146, 15460), (170, 15532), (199, 15607), (223, 15667), (224, 15673), (226, 15679), (240, 15733), (243, 15745), (256, 15802), (273, 15847), (278, 15859), (283, 15868), (324, 15973), (340, 16021), (342, 16024),

Gene: Nerdos_19 Start: 14993, Stop: 15850, Start Num: 34
Candidate Starts for Nerdos_19:
(Start: 34 @14993 has 117 MA's), (70, 15065), (78, 15083), (86, 15113), (95, 15146), (136, 15251), (146, 15278), (182, 15380), (199, 15425), (224, 15491), (226, 15497), (240, 15551), (243, 15563), (273, 15665), (278, 15677), (283, 15686), (340, 15839), (342, 15842),

Gene: Neroxid_17 Start: 12061, Stop: 13044, Start Num: 22
Candidate Starts for Neroxid_17:
(Start: 22 @12061 has 3 MA's), (28, 12091), (39, 12127), (Start: 43 @12133 has 38 MA's), (53, 12154), (74, 12196), (80, 12214), (87, 12241), (100, 12283), (109, 12304), (117, 12343), (129, 12352), (139, 12382), (144, 12403), (147, 12412), (157, 12442), (161, 12457), (173, 12493), (189, 12529), (200, 12562), (201, 12565), (225, 12628), (233, 12652), (236, 12667), (258, 12763), (270, 12796), (279, 12832), (287, 12847), (290, 12856), (294, 12880), (295, 12889), (323, 12985),

Gene: Nettuno_16 Start: 13849, Stop: 14697, Start Num: 59
Candidate Starts for Nettuno_16:

(27, 13762), (Start: 59 @13849 has 30 MA's), (63, 13855), (90, 13939), (110, 13990), (125, 14044), (131, 14059), (137, 14077), (150, 14110), (170, 14176), (177, 14197), (179, 14200), (190, 14221), (212, 14278), (275, 14500), (277, 14506), (332, 14662), (334, 14668),

Gene: Nicky22_18 Start: 13563, Stop: 14417, Start Num: 38
Candidate Starts for Nicky22_18:
(Start: 38 @13563 has 81 MA's), (71, 13638), (82, 13668), (84, 13677), (118, 13776), (125, 13791), (146, 13848), (180, 13944), (184, 13953), (197, 13986), (229, 14070), (234, 14085), (317, 14337), (322, 14349), (342, 14409),

Gene: Nishikigoi_19 Start: 15480, Stop: 16337, Start Num: 34
Candidate Starts for Nishikigoi_19:
(13, 15354), (14, 15357), (16, 15363), (Start: 34 @15480 has 117 MA's), (46, 15498), (78, 15570), (136, 15738), (158, 15801), (199, 15912), (224, 15978), (240, 16038), (243, 16050), (245, 16059), (256, 16107), (283, 16173), (306, 16209), (323, 16272), (340, 16326), (342, 16329),

Gene: Oliynyk_20 Start: 15156, Stop: 16013, Start Num: 34
Candidate Starts for Oliynyk_20:
(Start: 34 @15156 has 117 MA's), (70, 15228), (78, 15246), (95, 15309), (136, 15414), (146, 15441), (158, 15477), (182, 15543), (199, 15588), (224, 15654), (226, 15660), (243, 15726), (251, 15765), (256, 15783), (278, 15840), (300, 15867), (340, 16002), (342, 16005),

Gene: Olliecat_16 Start: 13002, Stop: 13859, Start Num: 38
Candidate Starts for Olliecat_16:
(Start: 38 @13002 has 81 MA's), (82, 13104), (110, 13188), (112, 13197), (114, 13203), (125, 13227), (134, 13251), (137, 13260), (144, 13278), (180, 13380), (200, 13428), (205, 13440), (207, 13443), (211, 13452), (218, 13473), (234, 13524), (245, 13572), (316, 13776), (319, 13785),

Gene: Olympi_22 Start: 15475, Stop: 16368, Start Num: 43
Candidate Starts for Olympi_22:
(Start: 43 @15475 has 38 MA's), (82, 15568), (111, 15655), (158, 15820), (159, 15823), (205, 15946), (250, 16114), (273, 16183), (283, 16204), (285, 16207), (319, 16294), (321, 16297), (322, 16300), (332, 16333),

Gene: Omar_20 Start: 15815, Stop: 16672, Start Num: 34
Candidate Starts for Omar_20:
(30, 15797), (Start: 34 @15815 has 117 MA's), (78, 15905), (84, 15929), (88, 15944), (104, 15986), (127, 16049), (136, 16073), (158, 16136), (199, 16247), (203, 16256), (224, 16313), (243, 16385), (256, 16442), (283, 16508), (306, 16544), (323, 16607), (340, 16661), (342, 16664),

Gene: OneDirection_16 Start: 13816, Stop: 14664, Start Num: 59
Candidate Starts for OneDirection_16:
(27, 13729), (Start: 59 @13816 has 30 MA's), (63, 13822), (90, 13906), (110, 13957), (125, 14011), (137, 14044), (150, 14077), (170, 14143), (177, 14164), (179, 14167), (190, 14188), (212, 14245), (275, 14467), (277, 14473), (332, 14629), (334, 14635),

Gene: OscarSo_27 Start: 17801, Stop: 18682, Start Num: 51
Candidate Starts for OscarSo_27:
(45, 17786), (Start: 51 @17801 has 4 MA's), (78, 17864), (81, 17876), (150, 18098), (161, 18137), (203, 18245), (206, 18257), (215, 18281), (306, 18560),

Gene: Ozzie_19 Start: 14973, Stop: 15830, Start Num: 34
Candidate Starts for Ozzie_19:

(Start: 34 @14973 has 117 MA's), (70, 15045), (78, 15063), (86, 15093), (95, 15126), (136, 15231), (146, 15258), (182, 15360), (199, 15405), (224, 15471), (226, 15477), (240, 15531), (243, 15543), (273, 15645), (278, 15657), (283, 15666), (340, 15819), (342, 15822),

Gene: OzzyJ_20 Start: 14960, Stop: 15817, Start Num: 34
Candidate Starts for OzzyJ_20:
(Start: 34 @14960 has 117 MA's), (70, 15032), (78, 15050), (136, 15218), (146, 15245), (184, 15350), (224, 15458), (226, 15464), (240, 15518), (273, 15632), (283, 15653), (340, 15806), (342, 15809),

Gene: Pablito_19 Start: 14808, Stop: 15662, Start Num: 34
Candidate Starts for Pablito_19:
(Start: 34 @14808 has 117 MA's), (Start: 60 @14862 has 2 MA's), (78, 14898), (222, 15294), (224, 15303), (266, 15459), (283, 15498), (312, 15561), (340, 15651), (342, 15654), (344, 15657),

Gene: Paedore_19 Start: 14964, Stop: 15821, Start Num: 34
Candidate Starts for Paedore_19:
(Start: 34 @14964 has 117 MA's), (Start: 60 @15018 has 2 MA's), (78, 15054), (224, 15462), (285, 15660), (340, 15810), (342, 15813),

Gene: Paolo_21 Start: 15362, Stop: 16219, Start Num: 34
Candidate Starts for Paolo_21:
(Start: 34 @15362 has 117 MA's), (158, 15683), (170, 15719), (224, 15860), (283, 16055), (340, 16208), (342, 16211),

Gene: Parvaparticeps_34 Start: 24373, Stop: 23477, Start Num: 37
Candidate Starts for Parvaparticeps_34:
(37, 24373), (39, 24370), (69, 24310), (70, 24304), (82, 24274), (125, 24139), (146, 24079), (184, 23974), (204, 23911), (236, 23800), (243, 23767), (253, 23716), (267, 23680), (272, 23665), (289, 23632),

Gene: PastaFagioli_17 Start: 13123, Stop: 13977, Start Num: 38
Candidate Starts for PastaFagioli_17:
(Start: 38 @13123 has 81 MA's), (56, 13168), (71, 13198), (82, 13228), (125, 13351), (146, 13408), (236, 13651), (239, 13669), (251, 13723), (270, 13780), (317, 13897), (322, 13909), (342, 13969),

Gene: Pavo_20 Start: 15672, Stop: 16529, Start Num: 34
Candidate Starts for Pavo_20:
(Start: 34 @15672 has 117 MA's), (Start: 52 @15708 has 15 MA's), (70, 15744), (84, 15786), (136, 15930), (161, 16002), (182, 16059), (184, 16062), (199, 16104), (223, 16164), (224, 16170), (251, 16281), (273, 16344), (283, 16365), (332, 16494), (340, 16518), (342, 16521),

Gene: Pecas_17 Start: 13119, Stop: 13973, Start Num: 38
Candidate Starts for Pecas_17:
(Start: 38 @13119 has 81 MA's), (71, 13194), (82, 13224), (84, 13233), (118, 13332), (125, 13347), (146, 13404), (180, 13500), (184, 13509), (197, 13542), (229, 13626), (234, 13641), (317, 13893), (322, 13905), (342, 13965),

Gene: Pepperoni_16 Start: 14166, Stop: 15014, Start Num: 59
Candidate Starts for Pepperoni_16:
(27, 14079), (Start: 59 @14166 has 30 MA's), (63, 14172), (90, 14256), (110, 14307), (125, 14361), (137, 14394), (150, 14427), (170, 14493), (177, 14514), (179, 14517), (190, 14538), (212, 14595), (275, 14817), (277, 14823), (332, 14979), (334, 14985),

Gene: PermaG_21 Start: 15549, Stop: 16442, Start Num: 43
Candidate Starts for PermaG_21:
(Start: 43 @15549 has 38 MA's), (137, 15813), (158, 15894), (159, 15897), (161, 15903), (188, 15972), (205, 16020), (250, 16188), (273, 16257), (283, 16278), (285, 16281), (312, 16341), (319, 16368), (321, 16371), (322, 16374), (332, 16407), (333, 16410), (342, 16434),

Gene: Phettuccine_19 Start: 14993, Stop: 15850, Start Num: 34
Candidate Starts for Phettuccine_19:
(Start: 34 @14993 has 117 MA's), (70, 15065), (78, 15083), (86, 15113), (95, 15146), (136, 15251), (146, 15278), (182, 15380), (199, 15425), (224, 15491), (226, 15497), (240, 15551), (243, 15563), (273, 15665), (278, 15677), (283, 15686), (340, 15839), (342, 15842),

Gene: PhigPhack_18 Start: 13118, Stop: 13972, Start Num: 38
Candidate Starts for PhigPhack_18:
(Start: 38 @13118 has 81 MA's), (71, 13193), (82, 13223), (84, 13232), (118, 13331), (125, 13346), (146, 13403), (180, 13499), (184, 13508), (197, 13541), (229, 13625), (236, 13646), (266, 13763), (322, 13904), (342, 13964),

Gene: PhillyJawn_23 Start: 13565, Stop: 14425, Start Num: 43
Candidate Starts for PhillyJawn_23:
(Start: 43 @13565 has 38 MA's), (56, 13601), (Start: 57 @13604 has 1 MA's), (70, 13625), (72, 13631), (78, 13643), (82, 13658), (104, 13724), (112, 13751), (125, 13781), (137, 13814), (169, 13907), (223, 14057), (224, 14063), (234, 14096), (251, 14174), (339, 14411), (340, 14414),

Gene: Phingu_25 Start: 13784, Stop: 14644, Start Num: 43
Candidate Starts for Phingu_25:
(Start: 43 @13784 has 38 MA's), (56, 13820), (Start: 57 @13823 has 1 MA's), (70, 13844), (72, 13850), (78, 13862), (82, 13877), (104, 13943), (112, 13970), (125, 14000), (137, 14033), (169, 14126), (178, 14153), (214, 14246), (223, 14276), (224, 14282), (234, 14315), (251, 14393), (339, 14630), (340, 14633),

Gene: Phisb_17 Start: 13132, Stop: 13986, Start Num: 38
Candidate Starts for Phisb_17:
(Start: 38 @13132 has 81 MA's), (71, 13207), (82, 13237), (84, 13246), (118, 13345), (125, 13360), (146, 13417), (180, 13513), (184, 13522), (197, 13555), (229, 13639), (234, 13654), (317, 13906), (322, 13918), (342, 13978),

Gene: Phonegingi_22 Start: 13626, Stop: 14486, Start Num: 43
Candidate Starts for Phonegingi_22:
(Start: 43 @13626 has 38 MA's), (56, 13662), (Start: 57 @13665 has 1 MA's), (70, 13686), (72, 13692), (82, 13719), (104, 13785), (112, 13812), (125, 13842), (137, 13875), (169, 13968), (178, 13995), (223, 14118), (224, 14124), (234, 14157), (243, 14196), (251, 14235), (321, 14415), (322, 14418), (339, 14472), (340, 14475),

Gene: Pickett_16 Start: 13834, Stop: 14682, Start Num: 59
Candidate Starts for Pickett_16:
(27, 13747), (Start: 59 @13834 has 30 MA's), (63, 13840), (Start: 68 @13846 has 1 MA's), (110, 13975), (125, 14029), (137, 14062), (150, 14095), (177, 14182), (179, 14185), (190, 14206), (212, 14263), (275, 14485), (277, 14491), (334, 14653),

Gene: Pickles13_22 Start: 13990, Stop: 14850, Start Num: 43
Candidate Starts for Pickles13_22:

(Start: 43 @13990 has 38 MA's), (56, 14026), (Start: 57 @14029 has 1 MA's), (70, 14050), (72, 14056), (78, 14068), (80, 14077), (82, 14083), (104, 14149), (112, 14176), (125, 14206), (137, 14239), (159, 14305), (169, 14332), (178, 14359), (217, 14458), (223, 14482), (224, 14488), (234, 14521), (251, 14599), (321, 14779), (332, 14815), (339, 14836),

Gene: Pigu_16 Start: 12876, Stop: 13781, Start Num: 23
Candidate Starts for Pigu_16:
(Start: 23 @12876 has 4 MA's), (Start: 43 @12948 has 38 MA's), (58, 12984), (72, 13011), (80, 13035), (82, 13041), (93, 13080), (102, 13107), (161, 13263), (186, 13326), (223, 13431), (239, 13488), (260, 13572), (279, 13620), (318, 13710), (321, 13716), (323, 13722),

Gene: Pitbull_17 Start: 12204, Stop: 13190, Start Num: 22
Candidate Starts for Pitbull_17:
(Start: 22 @12204 has 3 MA's), (32, 12258), (39, 12270), (Start: 43 @12276 has 38 MA's), (70, 12333), (71, 12336), (72, 12339), (74, 12342), (82, 12366), (109, 12450), (112, 12462), (117, 12489), (139, 12528), (147, 12558), (201, 12711), (225, 12774), (233, 12798), (236, 12813), (245, 12855), (255, 12900), (290, 13002), (294, 13026), (325, 13140), (335, 13170),

Gene: PondAmelia_18 Start: 13114, Stop: 13971, Start Num: 38
Candidate Starts for PondAmelia_18:
(Start: 38 @13114 has 81 MA's), (49, 13138), (56, 13159), (71, 13189), (82, 13219), (84, 13228), (118, 13327), (125, 13342), (127, 13348), (146, 13399), (168, 13462), (180, 13495), (236, 13642), (238, 13651), (239, 13660), (265, 13756), (317, 13891), (322, 13903), (342, 13963),

Gene: Provolone_20 Start: 15402, Stop: 16259, Start Num: 34
Candidate Starts for Provolone_20:
(Start: 34 @15402 has 117 MA's), (Start: 52 @15438 has 15 MA's), (70, 15474), (84, 15516), (136, 15660), (146, 15687), (182, 15789), (184, 15792), (199, 15834), (200, 15837), (223, 15894), (224, 15900), (235, 15936), (273, 16074), (332, 16224), (340, 16248), (342, 16251),

Gene: Puginator_21 Start: 15407, Stop: 16264, Start Num: 34
Candidate Starts for Puginator_21:
(Start: 34 @15407 has 117 MA's), (78, 15497), (158, 15728), (170, 15764), (224, 15905), (283, 16100), (340, 16253), (342, 16256),

Gene: Puppers_17 Start: 14309, Stop: 15142, Start Num: 52
Candidate Starts for Puppers_17:
(Start: 52 @14309 has 15 MA's), (80, 14378), (107, 14462), (126, 14513), (165, 14621), (203, 14714), (207, 14726), (209, 14732), (231, 14798), (271, 14924), (283, 14951), (285, 14954), (292, 14972), (295, 14987), (308, 15026),

Gene: QMacho_18 Start: 13602, Stop: 14456, Start Num: 38
Candidate Starts for QMacho_18:
(Start: 38 @13602 has 81 MA's), (71, 13677), (82, 13707), (84, 13716), (118, 13815), (125, 13830), (146, 13887), (180, 13983), (184, 13992), (197, 14025), (229, 14109), (234, 14124), (317, 14376), (322, 14388), (342, 14448),

Gene: Quenya_17 Start: 12664, Stop: 13518, Start Num: 38
Candidate Starts for Quenya_17:
(Start: 38 @12664 has 81 MA's), (56, 12709), (71, 12739), (82, 12769), (118, 12877), (125, 12892), (144, 12943), (184, 13054), (234, 13186), (236, 13192), (264, 13303), (269, 13318), (317, 13438), (319, 13444), (322, 13450), (342, 13510),

Gene: R4_19 Start: 15046, Stop: 15903, Start Num: 34
Candidate Starts for R4_19:
(Start: 34 @15046 has 117 MA's), (Start: 60 @15100 has 2 MA's), (78, 15136), (136, 15304), (224, 15544), (285, 15742), (340, 15892), (342, 15895),

Gene: Rana_19 Start: 14967, Stop: 15824, Start Num: 34
Candidate Starts for Rana_19:
(Start: 34 @14967 has 117 MA's), (70, 15039), (86, 15087), (95, 15120), (136, 15225), (146, 15252), (168, 15315), (184, 15357), (222, 15456), (223, 15459), (224, 15465), (243, 15537), (256, 15594), (278, 15651), (283, 15660), (340, 15813), (342, 15816),

Gene: Raqqa_18 Start: 14740, Stop: 15720, Start Num: 22
Candidate Starts for Raqqa_18:
(Start: 22 @14740 has 3 MA's), (70, 14869), (78, 14887), (81, 14899), (93, 14941), (97, 14959), (112, 14998), (114, 15004), (129, 15034), (148, 15097), (200, 15241), (208, 15268), (220, 15304), (243, 15403), (248, 15433), (252, 15445), (258, 15466), (271, 15496), (280, 15529), (294, 15556), (306, 15598), (318, 15649), (323, 15661),

Gene: Rasovi_20 Start: 15518, Stop: 16411, Start Num: 43
Candidate Starts for Rasovi_20:
(Start: 43 @15518 has 38 MA's), (82, 15611), (84, 15620), (111, 15698), (125, 15749), (158, 15863), (159, 15866), (161, 15872), (184, 15932), (249, 16154), (250, 16157), (273, 16226), (283, 16247), (285, 16250), (312, 16310), (332, 16376),

Gene: RavenCo17_16 Start: 14717, Stop: 15550, Start Num: 60
Candidate Starts for RavenCo17_16:
(Start: 60 @14717 has 2 MA's), (81, 14759), (116, 14867), (137, 14933), (177, 15053), (212, 15131), (266, 15326), (277, 15359), (317, 15470),

Gene: Raya_17 Start: 12133, Stop: 13044, Start Num: 43
Candidate Starts for Raya_17:
(Start: 22 @12061 has 3 MA's), (28, 12091), (39, 12127), (Start: 43 @12133 has 38 MA's), (53, 12154), (74, 12196), (80, 12214), (87, 12241), (100, 12283), (109, 12304), (117, 12343), (129, 12352), (139, 12382), (144, 12403), (147, 12412), (157, 12442), (161, 12457), (173, 12493), (189, 12529), (200, 12562), (201, 12565), (225, 12628), (233, 12652), (236, 12667), (258, 12763), (270, 12796), (279, 12832), (287, 12847), (290, 12856), (294, 12880), (295, 12889), (323, 12985),

Gene: RedBear_21 Start: 15234, Stop: 16091, Start Num: 34
Candidate Starts for RedBear_21:
(Start: 34 @15234 has 117 MA's), (70, 15306), (78, 15324), (136, 15492), (146, 15519), (184, 15624), (224, 15732), (226, 15738), (243, 15804), (283, 15927), (340, 16080), (342, 16083),

Gene: Reyja_18 Start: 14313, Stop: 15155, Start Num: 52
Candidate Starts for Reyja_18:
(5, 13857), (8, 13935), (12, 14133), (Start: 34 @14274 has 117 MA's), (Start: 52 @14313 has 15 MA's), (80, 14382), (88, 14412), (94, 14433), (107, 14466), (121, 14508), (122, 14511), (182, 14652), (207, 14718), (244, 14850), (269, 14925), (292, 14979), (303, 15021), (321, 15087), (333, 15126),

Gene: RikSengupta_31 Start: 17701, Stop: 18585, Start Num: 34
Candidate Starts for RikSengupta_31:
(19, 17602), (Start: 34 @17701 has 117 MA's), (79, 17797), (84, 17818), (112, 17902), (114, 17908), (158, 18049), (243, 18298), (248, 18328), (274, 18406), (281, 18418), (283, 18421), (300, 18439), (317, 18505), (318, 18508), (319, 18511), (342, 18577), (344, 18580),

Gene: Rollins_16 Start: 11669, Stop: 12526, Start Num: 38
Candidate Starts for Rollins_16:
(Start: 38 @11669 has 81 MA's), (54, 11708), (71, 11744), (82, 11774), (85, 11786), (118, 11882), (146, 11954), (171, 12029), (180, 12050), (239, 12218), (270, 12329),

Gene: Rona_16 Start: 12807, Stop: 13661, Start Num: 38
Candidate Starts for Rona_16:
(Start: 38 @12807 has 81 MA's), (49, 12831), (56, 12852), (71, 12882), (82, 12912), (125, 13035), (144, 13086), (146, 13092), (229, 13314), (234, 13329), (236, 13335), (272, 13470), (317, 13581), (322, 13593), (342, 13653),

Gene: RootBeer_16 Start: 13240, Stop: 14184, Start Num: 24
Candidate Starts for RootBeer_16:
(Start: 17 @13192 has 1 MA's), (Start: 24 @13240 has 11 MA's), (82, 13408), (85, 13420), (93, 13447), (109, 13492), (129, 13558), (144, 13609), (154, 13633), (170, 13690), (180, 13714), (236, 13873), (303, 14056), (318, 14113),

Gene: Rooter_16 Start: 12775, Stop: 13614, Start Num: 43
Candidate Starts for Rooter_16:
(Start: 24 @12706 has 11 MA's), (Start: 43 @12775 has 38 MA's), (82, 12865), (93, 12904), (104, 12934), (109, 12949), (129, 12997), (157, 13087), (161, 13102), (173, 13138), (186, 13165), (188, 13171), (219, 13258), (236, 13303), (248, 13366), (250, 13372), (260, 13405), (270, 13432), (279, 13453), (300, 13477), (301, 13483), (306, 13495), (318, 13543), (321, 13549), (323, 13555),

Gene: Rootkit7_20 Start: 15338, Stop: 16231, Start Num: 43
Candidate Starts for Rootkit7_20:
(Start: 43 @15338 has 38 MA's), (82, 15431), (84, 15440), (111, 15518), (125, 15569), (142, 15629), (158, 15683), (159, 15686), (161, 15692), (249, 15974), (250, 15977), (273, 16046), (283, 16067), (285, 16070), (312, 16130), (332, 16196),

Gene: Rusticus_20 Start: 15156, Stop: 16013, Start Num: 34
Candidate Starts for Rusticus_20:
(Start: 34 @15156 has 117 MA's), (70, 15228), (78, 15246), (95, 15309), (136, 15414), (146, 15441), (158, 15477), (182, 15543), (199, 15588), (224, 15654), (226, 15660), (243, 15726), (251, 15765), (256, 15783), (278, 15840), (300, 15867), (340, 16002), (342, 16005),

Gene: SBlackberry_20 Start: 15344, Stop: 16237, Start Num: 43
Candidate Starts for SBlackberry_20:
(Start: 43 @15344 has 38 MA's), (82, 15437), (84, 15446), (111, 15524), (125, 15575), (142, 15635), (158, 15689), (159, 15692), (161, 15698), (249, 15980), (250, 15983), (273, 16052), (283, 16073), (285, 16076), (312, 16136), (332, 16202),

Gene: Saftant_19 Start: 15950, Stop: 16807, Start Num: 34
Candidate Starts for Saftant_19:
(Start: 34 @15950 has 117 MA's), (44, 15965), (Start: 52 @15986 has 15 MA's), (70, 16022), (78, 16040), (84, 16064), (95, 16103), (158, 16271), (218, 16430), (222, 16439), (223, 16442), (224, 16448), (243, 16520), (257, 16580), (273, 16622), (283, 16643), (332, 16772), (340, 16796), (342, 16799),

Gene: Sahara_16 Start: 13936, Stop: 14784, Start Num: 59
Candidate Starts for Sahara_16:

(Start: 59 @13936 has 30 MA's), (65, 13945), (89, 14020), (90, 14026), (116, 14098), (117, 14113), (125, 14131), (137, 14164), (150, 14197), (177, 14284), (179, 14287), (185, 14296), (190, 14308), (193, 14323), (277, 14593), (332, 14749), (334, 14755),

Gene: SanaSana_18 Start: 13004, Stop: 13858, Start Num: 38
Candidate Starts for SanaSana_18:
(Start: 38 @13004 has 81 MA's), (56, 13049), (71, 13079), (82, 13109), (118, 13217), (125, 13232), (146, 13289), (180, 13385), (184, 13394), (197, 13427), (236, 13532), (238, 13541), (239, 13550), (257, 13625), (266, 13649), (317, 13778), (322, 13790), (342, 13850),

Gene: SansAfet_17 Start: 13052, Stop: 13906, Start Num: 38
Candidate Starts for SansAfet_17:
(Start: 38 @13052 has 81 MA's), (71, 13127), (82, 13157), (84, 13166), (118, 13265), (125, 13280), (146, 13337), (180, 13433), (184, 13442), (197, 13475), (229, 13559), (265, 13694), (266, 13697), (322, 13838), (342, 13898),

Gene: Santhid_17 Start: 14146, Stop: 14988, Start Num: 52
Candidate Starts for Santhid_17:
(Start: 34 @14107 has 117 MA's), (Start: 52 @14146 has 15 MA's), (80, 14215), (88, 14245), (94, 14266), (107, 14299), (122, 14344), (207, 14551), (244, 14683), (292, 14812), (303, 14854), (318, 14914), (321, 14920), (333, 14959),

Gene: SarBear_17 Start: 13097, Stop: 13951, Start Num: 38
Candidate Starts for SarBear_17:
(Start: 38 @13097 has 81 MA's), (71, 13172), (82, 13202), (84, 13211), (118, 13310), (125, 13325), (146, 13382), (180, 13478), (184, 13487), (197, 13520), (229, 13604), (234, 13619), (236, 13625), (317, 13871), (322, 13883), (342, 13943),

Gene: SarahRose_19 Start: 14966, Stop: 15823, Start Num: 34
Candidate Starts for SarahRose_19:
(Start: 34 @14966 has 117 MA's), (70, 15038), (78, 15056), (136, 15224), (146, 15251), (218, 15446), (224, 15464), (226, 15470), (240, 15524), (273, 15638), (283, 15659), (340, 15812), (342, 15815),

Gene: Sarge_17 Start: 13073, Stop: 13981, Start Num: 24
Candidate Starts for Sarge_17:
(Start: 24 @13073 has 11 MA's), (Start: 43 @13142 has 38 MA's), (70, 13199), (82, 13232), (93, 13271), (104, 13301), (109, 13316), (129, 13364), (157, 13454), (161, 13469), (173, 13505), (186, 13532), (188, 13538), (219, 13625), (236, 13670), (248, 13733), (250, 13739), (260, 13772), (270, 13799), (279, 13820), (300, 13844), (301, 13850), (306, 13862), (318, 13910), (321, 13916), (323, 13922),

Gene: Savage_16 Start: 13910, Stop: 14758, Start Num: 59
Candidate Starts for Savage_16:
(6, 13442), (27, 13823), (Start: 59 @13910 has 30 MA's), (63, 13916), (90, 14000), (110, 14051), (150, 14171), (177, 14258), (179, 14261), (187, 14273), (190, 14282), (198, 14309), (202, 14318), (212, 14339), (277, 14567), (332, 14723), (334, 14729),

Gene: ScoobySnack_21 Start: 13694, Stop: 14554, Start Num: 43
Candidate Starts for ScoobySnack_21:
(Start: 43 @13694 has 38 MA's), (56, 13730), (Start: 57 @13733 has 1 MA's), (70, 13754), (72, 13760), (78, 13772), (80, 13781), (82, 13787), (104, 13853), (112, 13880), (125, 13910), (137, 13943), (159, 14009), (223, 14186), (224, 14192), (234, 14225), (243, 14264), (251, 14303), (321, 14483), (332, 14519), (339, 14540), (340, 14543),

Gene: Sharkboy_16 Start: 12806, Stop: 13660, Start Num: 38
Candidate Starts for Sharkboy_16:
(Start: 38 @12806 has 81 MA's), (49, 12830), (56, 12851), (71, 12881), (82, 12911), (125, 13034), (144, 13085), (146, 13091), (229, 13313), (234, 13328), (236, 13334), (272, 13469), (317, 13580), (322, 13592), (342, 13652),

Gene: Shayna_16 Start: 12861, Stop: 13715, Start Num: 40
Candidate Starts for Shayna_16:
(Start: 40 @12861 has 2 MA's), (82, 12960), (112, 13053), (134, 13107), (205, 13296), (226, 13353), (234, 13380), (286, 13548), (300, 13563), (322, 13647), (340, 13704), (342, 13707),

Gene: Shoya_16 Start: 12709, Stop: 13617, Start Num: 24
Candidate Starts for Shoya_16:
(Start: 24 @12709 has 11 MA's), (Start: 43 @12778 has 38 MA's), (82, 12868), (93, 12907), (104, 12937), (109, 12952), (129, 13000), (157, 13090), (161, 13105), (173, 13141), (186, 13168), (188, 13174), (219, 13261), (236, 13306), (248, 13369), (250, 13375), (260, 13408), (270, 13435), (279, 13456), (300, 13480), (301, 13486), (306, 13498), (318, 13546), (321, 13552), (323, 13558),

Gene: SirBeanington_17 Start: 13139, Stop: 13993, Start Num: 38
Candidate Starts for SirBeanington_17:
(Start: 38 @13139 has 81 MA's), (71, 13214), (82, 13244), (84, 13253), (118, 13352), (146, 13424), (180, 13520), (184, 13529), (197, 13562), (229, 13646), (234, 13661), (317, 13913), (322, 13925), (342, 13985),

Gene: Skitty_17 Start: 12921, Stop: 13763, Start Num: 43
Candidate Starts for Skitty_17:
(Start: 24 @12852 has 11 MA's), (Start: 43 @12921 has 38 MA's), (55, 12948), (78, 12999), (80, 13008), (82, 13014), (87, 13035), (104, 13083), (109, 13098), (147, 13206), (157, 13236), (161, 13251), (170, 13278), (173, 13287), (186, 13314), (219, 13407), (230, 13437), (236, 13452), (241, 13476), (243, 13485), (252, 13527), (260, 13554), (279, 13602), (318, 13692), (321, 13698), (323, 13704),

Gene: Skyerus_17 Start: 12133, Stop: 13044, Start Num: 43
Candidate Starts for Skyerus_17:
(Start: 22 @12061 has 3 MA's), (28, 12091), (39, 12127), (Start: 43 @12133 has 38 MA's), (53, 12154), (74, 12196), (80, 12214), (87, 12241), (100, 12283), (109, 12304), (117, 12343), (129, 12352), (139, 12382), (144, 12403), (147, 12412), (157, 12442), (161, 12457), (173, 12493), (189, 12529), (200, 12562), (201, 12565), (225, 12628), (233, 12652), (236, 12667), (258, 12763), (270, 12796), (279, 12832), (287, 12847), (290, 12856), (294, 12880), (295, 12889), (323, 12985),

Gene: Skylord_16 Start: 11609, Stop: 12466, Start Num: 38
Candidate Starts for Skylord_16:
(Start: 38 @11609 has 81 MA's), (54, 11648), (71, 11684), (82, 11714), (85, 11726), (118, 11822), (146, 11894), (171, 11969), (180, 11990), (239, 12158), (270, 12269), (323, 12401),

Gene: Slay_17 Start: 13639, Stop: 14493, Start Num: 38
Candidate Starts for Slay_17:
(Start: 38 @13639 has 81 MA's), (71, 13714), (82, 13744), (84, 13753), (118, 13852), (125, 13867), (146, 13924), (180, 14020), (184, 14029), (197, 14062), (229, 14146), (234, 14161), (236, 14167), (317, 14413), (322, 14425), (342, 14485),

Gene: Snorlax_19 Start: 14969, Stop: 15826, Start Num: 34

Candidate Starts for Snorlax_19:
(Start: 34 @14969 has 117 MA's), (70, 15041), (78, 15059), (136, 15227), (146, 15254), (224, 15467), (226, 15473), (243, 15539), (256, 15596), (273, 15641), (283, 15662), (340, 15815), (342, 15818),

Gene: Softsoap_16 Start: 12873, Stop: 13727, Start Num: 38
Candidate Starts for Softsoap_16:
(Start: 38 @12873 has 81 MA's), (71, 12948), (82, 12978), (84, 12987), (118, 13086), (125, 13101), (146, 13158), (180, 13254), (184, 13263), (197, 13296), (229, 13380), (234, 13395), (317, 13647), (322, 13659), (342, 13719),

Gene: SoilAssassin_16 Start: 13903, Stop: 14751, Start Num: 59
Candidate Starts for SoilAssassin_16:
(Start: 59 @13903 has 30 MA's), (63, 13909), (110, 14044), (137, 14131), (150, 14164), (177, 14251), (179, 14254), (190, 14275), (198, 14299), (212, 14332), (275, 14554), (277, 14560), (334, 14722),

Gene: Solea_19 Start: 13530, Stop: 14384, Start Num: 38
Candidate Starts for Solea_19:
(Start: 38 @13530 has 81 MA's), (71, 13605), (82, 13635), (84, 13644), (118, 13743), (125, 13758), (146, 13815), (180, 13911), (184, 13920), (197, 13953), (229, 14037), (236, 14058), (266, 14175), (269, 14184), (316, 14301), (322, 14316), (342, 14376),

Gene: South40_20 Start: 15234, Stop: 16091, Start Num: 34
Candidate Starts for South40_20:
(Start: 34 @15234 has 117 MA's), (70, 15306), (78, 15324), (136, 15492), (146, 15519), (184, 15624), (224, 15732), (226, 15738), (243, 15804), (283, 15927), (340, 16080), (342, 16083),

Gene: Sparcetus_31 Start: 17580, Stop: 18464, Start Num: 34
Candidate Starts for Sparcetus_31:
(19, 17481), (Start: 34 @17580 has 117 MA's), (67, 17646), (79, 17676), (84, 17697), (112, 17781), (114, 17787), (158, 17928), (222, 18096), (243, 18177), (248, 18207), (274, 18285), (281, 18297), (283, 18300), (300, 18318), (317, 18384), (318, 18387), (319, 18390), (342, 18456), (344, 18459),

Gene: Speedwell_24 Start: 17695, Stop: 18552, Start Num: 34
Candidate Starts for Speedwell_24:
(9, 17407), (Start: 34 @17695 has 117 MA's), (44, 17710), (Start: 52 @17731 has 15 MA's), (70, 17767), (136, 17953), (176, 18067), (200, 18130), (223, 18187), (224, 18193), (232, 18217), (273, 18367), (283, 18388), (332, 18517), (340, 18541), (342, 18544),

Gene: Sproutie_16 Start: 13910, Stop: 14758, Start Num: 59
Candidate Starts for Sproutie_16:
(6, 13442), (27, 13823), (Start: 59 @13910 has 30 MA's), (63, 13916), (90, 14000), (110, 14051), (150, 14171), (177, 14258), (179, 14261), (187, 14273), (190, 14282), (198, 14309), (202, 14318), (212, 14339), (277, 14567), (332, 14723), (334, 14729),

Gene: SqueakyClean_20 Start: 14973, Stop: 15827, Start Num: 34
Candidate Starts for SqueakyClean_20:
(Start: 34 @14973 has 117 MA's), (95, 15126), (158, 15294), (222, 15459), (224, 15468), (245, 15549), (283, 15663), (340, 15816), (342, 15819),

Gene: Squircle_16 Start: 13001, Stop: 13858, Start Num: 38
Candidate Starts for Squircle_16:
(Start: 38 @13001 has 81 MA's), (82, 13103), (110, 13187), (112, 13196), (114, 13202), (125, 13226), (134, 13250), (137, 13259), (144, 13277), (180, 13379), (200, 13427), (205, 13439), (207, 13442),

(211, 13451), (218, 13472), (234, 13523), (245, 13571), (316, 13775), (319, 13784),

Gene: Stoor_17 Start: 13001, Stop: 13855, Start Num: 38
Candidate Starts for Stoor_17:
(Start: 38 @13001 has 81 MA's), (56, 13046), (71, 13076), (82, 13106), (118, 13214), (125, 13229), (146, 13286), (180, 13382), (184, 13391), (197, 13424), (236, 13529), (238, 13538), (239, 13547), (257, 13622), (266, 13646), (317, 13775), (322, 13787), (342, 13847),

Gene: Stromboli_17 Start: 13132, Stop: 13986, Start Num: 38
Candidate Starts for Stromboli_17:
(Start: 38 @13132 has 81 MA's), (56, 13177), (71, 13207), (82, 13237), (118, 13345), (125, 13360), (146, 13417), (180, 13513), (184, 13522), (197, 13555), (236, 13660), (238, 13669), (239, 13678), (252, 13735), (257, 13753), (266, 13777), (322, 13918), (342, 13978),

Gene: Sucha_17 Start: 12846, Stop: 13667, Start Num: 57
Candidate Starts for Sucha_17:
(Start: 41 @12804 has 11 MA's), (Start: 57 @12846 has 1 MA's), (78, 12885), (82, 12900), (109, 12981), (111, 12987), (137, 13056), (158, 13122), (184, 13191), (188, 13200), (197, 13230), (205, 13248), (239, 13365), (265, 13458), (300, 13521), (319, 13593), (321, 13596), (330, 13626), (332, 13632), (339, 13653), (340, 13656),

Gene: Sudan_19 Start: 15667, Stop: 16524, Start Num: 34
Candidate Starts for Sudan_19:
(Start: 34 @15667 has 117 MA's), (Start: 52 @15703 has 15 MA's), (70, 15739), (84, 15781), (136, 15925), (146, 15952), (223, 16159), (224, 16165), (232, 16189), (273, 16339), (332, 16489), (340, 16513), (342, 16516),

Gene: Sujidade_20 Start: 15274, Stop: 16131, Start Num: 34
Candidate Starts for Sujidade_20:
(Start: 34 @15274 has 117 MA's), (70, 15346), (78, 15364), (95, 15427), (136, 15532), (146, 15559), (184, 15664), (199, 15706), (224, 15772), (240, 15832), (243, 15844), (256, 15901), (273, 15946), (283, 15967), (340, 16120), (342, 16123),

Gene: SunkenRoot_19 Start: 15962, Stop: 16819, Start Num: 34
Candidate Starts for SunkenRoot_19:
(Start: 34 @15962 has 117 MA's), (Start: 52 @15998 has 15 MA's), (70, 16034), (84, 16076), (136, 16220), (184, 16352), (223, 16454), (224, 16460), (273, 16634), (319, 16745), (332, 16784), (340, 16808), (342, 16811),

Gene: SunnyD_16 Start: 12861, Stop: 13715, Start Num: 40
Candidate Starts for SunnyD_16:
(Start: 40 @12861 has 2 MA's), (82, 12960), (112, 13053), (134, 13107), (205, 13296), (226, 13353), (234, 13380), (286, 13548), (300, 13563), (322, 13647), (340, 13704), (342, 13707),

Gene: SunsetPointe_19 Start: 14983, Stop: 15840, Start Num: 34
Candidate Starts for SunsetPointe_19:
(Start: 34 @14983 has 117 MA's), (70, 15055), (78, 15073), (86, 15103), (95, 15136), (136, 15241), (146, 15268), (182, 15370), (199, 15415), (224, 15481), (226, 15487), (240, 15541), (243, 15553), (273, 15655), (278, 15667), (283, 15676), (340, 15829), (342, 15832),

Gene: Superstar_22 Start: 16683, Stop: 17540, Start Num: 34
Candidate Starts for Superstar_22:

(Start: 34 @16683 has 117 MA's), (46, 16701), (69, 16749), (78, 16773), (88, 16812), (155, 16986), (199, 17115), (223, 17175), (224, 17181), (240, 17241), (243, 17253), (283, 17376), (285, 17379), (306, 17412), (323, 17475), (340, 17529), (342, 17532),

Gene: Sweetums_23 Start: 14346, Stop: 15209, Start Num: 41
Candidate Starts for Sweetums_23:
(39, 14343), (Start: 41 @14346 has 11 MA's), (80, 14436), (82, 14442), (108, 14520), (111, 14529), (112, 14535), (138, 14601), (159, 14667), (169, 14694), (184, 14733), (224, 14850), (226, 14856), (234, 14883), (239, 14907), (273, 15024), (276, 15033), (300, 15063), (319, 15135), (339, 15195),

Gene: Swervy_17 Start: 13097, Stop: 13951, Start Num: 38
Candidate Starts for Swervy_17:
(Start: 38 @13097 has 81 MA's), (71, 13172), (82, 13202), (84, 13211), (118, 13310), (125, 13325), (146, 13382), (180, 13478), (184, 13487), (197, 13520), (229, 13604), (234, 13619), (236, 13625), (317, 13871), (322, 13883), (342, 13943),

Gene: TagePhighter_20 Start: 14969, Stop: 15826, Start Num: 34
Candidate Starts for TagePhighter_20:
(Start: 34 @14969 has 117 MA's), (70, 15041), (78, 15059), (136, 15227), (146, 15254), (224, 15467), (226, 15473), (243, 15539), (256, 15596), (273, 15641), (283, 15662), (340, 15815), (342, 15818),

Gene: Tarzan_17 Start: 14116, Stop: 14958, Start Num: 52
Candidate Starts for Tarzan_17:
(5, 13660), (8, 13738), (12, 13936), (Start: 34 @14077 has 117 MA's), (Start: 52 @14116 has 15 MA's), (80, 14185), (88, 14215), (94, 14236), (107, 14269), (121, 14311), (122, 14314), (182, 14455), (207, 14521), (244, 14653), (269, 14728), (292, 14782), (303, 14824), (321, 14890), (333, 14929),

Gene: Teagster_17 Start: 14372, Stop: 15349, Start Num: 17
Candidate Starts for Teagster_17:
(Start: 17 @14372 has 1 MA's), (82, 14594), (112, 14687), (134, 14741), (144, 14768), (226, 14987), (237, 15023), (309, 15236), (311, 15245), (322, 15281), (333, 15317), (342, 15341),

Gene: Tefunt_19 Start: 15480, Stop: 16337, Start Num: 34
Candidate Starts for Tefunt_19:
(13, 15354), (14, 15357), (16, 15363), (Start: 34 @15480 has 117 MA's), (46, 15498), (78, 15570), (136, 15738), (158, 15801), (199, 15912), (224, 15978), (240, 16038), (243, 16050), (245, 16059), (256, 16107), (283, 16173), (306, 16209), (323, 16272), (340, 16326), (342, 16329),

Gene: Teng_22 Start: 14262, Stop: 15125, Start Num: 41
Candidate Starts for Teng_22:
(39, 14259), (Start: 41 @14262 has 11 MA's), (80, 14352), (82, 14358), (84, 14367), (108, 14436), (111, 14445), (112, 14451), (138, 14517), (159, 14583), (169, 14610), (184, 14649), (223, 14760), (224, 14766), (226, 14772), (234, 14799), (239, 14823), (273, 14940), (276, 14949), (319, 15051), (330, 15084), (339, 15111),

Gene: Thestral_20 Start: 14942, Stop: 15796, Start Num: 34
Candidate Starts for Thestral_20:
(Start: 34 @14942 has 117 MA's), (44, 14957), (Start: 60 @14996 has 2 MA's), (78, 15032), (158, 15263), (203, 15383), (224, 15437), (340, 15785), (342, 15788),

Gene: TinaBelcher_19 Start: 14890, Stop: 15744, Start Num: 34
Candidate Starts for TinaBelcher_19:

(Start: 34 @14890 has 117 MA's), (Start: 60 @14944 has 2 MA's), (78, 14980), (158, 15211), (224, 15385), (340, 15733), (342, 15736),

Gene: TinyMiny_31 Start: 17599, Stop: 18483, Start Num: 34
Candidate Starts for TinyMiny_31:
(19, 17500), (Start: 34 @17599 has 117 MA's), (79, 17695), (84, 17716), (112, 17800), (114, 17806), (158, 17947), (243, 18196), (248, 18226), (274, 18304), (281, 18316), (283, 18319), (300, 18337), (317, 18403), (318, 18406), (319, 18409), (342, 18475), (344, 18478),

Gene: Toma_19 Start: 14982, Stop: 15839, Start Num: 34
Candidate Starts for Toma_19:
(Start: 34 @14982 has 117 MA's), (70, 15054), (95, 15135), (136, 15240), (137, 15243), (146, 15267), (199, 15414), (222, 15471), (223, 15474), (224, 15480), (243, 15552), (256, 15609), (283, 15675), (340, 15828), (342, 15831),

Gene: Trine_17 Start: 13911, Stop: 14768, Start Num: 52
Candidate Starts for Trine_17:
(Start: 52 @13911 has 15 MA's), (80, 13980), (84, 13995), (122, 14109), (165, 14214), (203, 14307), (207, 14319), (239, 14421), (269, 14523), (276, 14544), (299, 14622), (300, 14625), (303, 14634), (306, 14643), (308, 14646), (316, 14685), (333, 14736),

Gene: Triste_19 Start: 14960, Stop: 15817, Start Num: 34
Candidate Starts for Triste_19:
(Start: 34 @14960 has 117 MA's), (70, 15032), (78, 15050), (136, 15218), (146, 15245), (218, 15440), (224, 15458), (226, 15464), (240, 15518), (273, 15632), (283, 15653), (340, 15806), (342, 15809),

Gene: Triumph_21 Start: 14890, Stop: 15744, Start Num: 34
Candidate Starts for Triumph_21:
(Start: 34 @14890 has 117 MA's), (Start: 60 @14944 has 2 MA's), (78, 14980), (95, 15043), (129, 15127), (222, 15376), (224, 15385), (234, 15418), (245, 15466), (266, 15541), (283, 15580), (340, 15733), (342, 15736),

Gene: TrvxScott_18 Start: 14892, Stop: 15746, Start Num: 34
Candidate Starts for TrvxScott_18:
(Start: 34 @14892 has 117 MA's), (Start: 60 @14946 has 2 MA's), (78, 14982), (158, 15213), (223, 15381), (224, 15387), (340, 15735), (342, 15738),

Gene: TuanPN_19 Start: 14966, Stop: 15823, Start Num: 34
Candidate Starts for TuanPN_19:
(Start: 34 @14966 has 117 MA's), (70, 15038), (78, 15056), (136, 15224), (146, 15251), (224, 15464), (226, 15470), (243, 15536), (256, 15593), (273, 15638), (283, 15659), (331, 15785), (340, 15812), (342, 15815),

Gene: TuertoX_16 Start: 13910, Stop: 14758, Start Num: 59
Candidate Starts for TuertoX_16:
(6, 13442), (27, 13823), (Start: 59 @13910 has 30 MA's), (63, 13916), (90, 14000), (110, 14051), (150, 14171), (177, 14258), (179, 14261), (187, 14273), (190, 14282), (198, 14309), (202, 14318), (212, 14339), (277, 14567), (332, 14723), (334, 14729),

Gene: TukTuk_17 Start: 13155, Stop: 14009, Start Num: 38
Candidate Starts for TukTuk_17:
(Start: 38 @13155 has 81 MA's), (71, 13230), (82, 13260), (84, 13269), (118, 13368), (125, 13383), (146, 13440), (180, 13536), (184, 13545), (197, 13578), (229, 13662), (234, 13677), (317, 13929),

(322, 13941), (342, 14001),

Gene: TurboVicky_20 Start: 15338, Stop: 16231, Start Num: 43
Candidate Starts for TurboVicky_20:
(Start: 43 @15338 has 38 MA's), (82, 15431), (84, 15440), (111, 15518), (125, 15569), (142, 15629), (158, 15683), (159, 15686), (161, 15692), (249, 15974), (250, 15977), (273, 16046), (283, 16067), (285, 16070), (312, 16130), (332, 16196),

Gene: Typher_22 Start: 15468, Stop: 16361, Start Num: 43
Candidate Starts for Typher_22:
(Start: 43 @15468 has 38 MA's), (82, 15561), (84, 15570), (111, 15648), (125, 15699), (142, 15759), (158, 15813), (159, 15816), (161, 15822), (249, 16104), (250, 16107), (273, 16176), (283, 16197), (285, 16200), (312, 16260), (332, 16326),

Gene: Unstoppable_19 Start: 14984, Stop: 15841, Start Num: 34
Candidate Starts for Unstoppable_19:
(Start: 34 @14984 has 117 MA's), (70, 15056), (78, 15074), (86, 15104), (95, 15137), (136, 15242), (146, 15269), (182, 15371), (199, 15416), (224, 15482), (226, 15488), (240, 15542), (243, 15554), (273, 15656), (278, 15668), (283, 15677), (340, 15830), (342, 15833),

Gene: Upyo_17 Start: 14116, Stop: 14946, Start Num: 52
Candidate Starts for Upyo_17:
(Start: 52 @14116 has 15 MA's), (72, 14161), (80, 14185), (143, 14365), (165, 14419), (203, 14512), (207, 14524), (236, 14608), (239, 14626), (303, 14812), (308, 14824), (316, 14863), (333, 14914),

Gene: Urza_19 Start: 15351, Stop: 16208, Start Num: 34
Candidate Starts for Urza_19:
(Start: 34 @15351 has 117 MA's), (Start: 57 @15402 has 1 MA's), (70, 15423), (78, 15441), (84, 15465), (95, 15504), (226, 15855), (234, 15882), (243, 15921), (257, 15981), (331, 16170), (340, 16197), (342, 16200),

Gene: Vanseggelen_24 Start: 15333, Stop: 16190, Start Num: 34
Candidate Starts for Vanseggelen_24:
(9, 15054), (Start: 34 @15333 has 117 MA's), (Start: 52 @15369 has 15 MA's), (70, 15405), (78, 15423), (84, 15447), (136, 15591), (161, 15663), (184, 15723), (199, 15765), (218, 15813), (273, 16005), (283, 16026), (332, 16155), (340, 16179), (342, 16182),

Gene: Vasanti_16 Start: 13856, Stop: 14704, Start Num: 59
Candidate Starts for Vasanti_16:
(27, 13769), (Start: 59 @13856 has 30 MA's), (63, 13862), (65, 13865), (89, 13940), (116, 14018), (117, 14033), (125, 14051), (137, 14084), (179, 14207), (187, 14219), (190, 14228), (236, 14363), (277, 14513), (332, 14669), (334, 14675),

Gene: Verabelle_20 Start: 15664, Stop: 16521, Start Num: 34
Candidate Starts for Verabelle_20:
(Start: 34 @15664 has 117 MA's), (44, 15679), (Start: 52 @15700 has 15 MA's), (70, 15736), (78, 15754), (84, 15778), (135, 15919), (136, 15922), (146, 15949), (199, 16096), (223, 16156), (226, 16168), (232, 16186), (273, 16336), (283, 16357), (332, 16486), (340, 16510), (342, 16513),

Gene: Verse_19 Start: 15963, Stop: 16820, Start Num: 34
Candidate Starts for Verse_19:
(Start: 34 @15963 has 117 MA's), (Start: 52 @15999 has 15 MA's), (70, 16035), (84, 16077), (136, 16221), (184, 16353), (223, 16455), (224, 16461), (273, 16635), (283, 16656), (319, 16746), (332,

16785), (340, 16809), (342, 16812),

Gene: VieEnRose_19 Start: 15417, Stop: 16274, Start Num: 34
Candidate Starts for VieEnRose_19:
(Start: 34 @15417 has 117 MA's), (Start: 57 @15468 has 1 MA's), (70, 15489), (84, 15531), (95, 15570), (167, 15762), (226, 15921), (234, 15948), (243, 15987), (331, 16236), (340, 16263), (342, 16266),

Gene: Violeta_24 Start: 13663, Stop: 14523, Start Num: 43
Candidate Starts for Violeta_24:
(Start: 43 @13663 has 38 MA's), (56, 13699), (Start: 57 @13702 has 1 MA's), (70, 13723), (72, 13729), (78, 13741), (82, 13756), (104, 13822), (112, 13849), (125, 13879), (137, 13912), (169, 14005), (178, 14032), (223, 14155), (224, 14161), (234, 14194), (251, 14272), (339, 14509), (340, 14512),

Gene: Vitas_16 Start: 11609, Stop: 12466, Start Num: 38
Candidate Starts for Vitas_16:
(Start: 38 @11609 has 81 MA's), (54, 11648), (71, 11684), (82, 11714), (85, 11726), (118, 11822), (146, 11894), (171, 11969), (180, 11990), (239, 12158), (270, 12269),

Gene: WalkingDead_17 Start: 13121, Stop: 13978, Start Num: 38
Candidate Starts for WalkingDead_17:
(Start: 38 @13121 has 81 MA's), (56, 13166), (71, 13196), (82, 13226), (118, 13334), (125, 13349), (146, 13406), (180, 13502), (184, 13511), (197, 13544), (265, 13763), (317, 13898), (322, 13910), (342, 13970),

Gene: Warren_23 Start: 13763, Stop: 14623, Start Num: 43
Candidate Starts for Warren_23:
(Start: 43 @13763 has 38 MA's), (56, 13799), (Start: 57 @13802 has 1 MA's), (70, 13823), (72, 13829), (82, 13856), (104, 13922), (112, 13949), (125, 13979), (137, 14012), (169, 14105), (178, 14132), (223, 14255), (224, 14261), (234, 14294), (251, 14372), (339, 14609), (340, 14612),

Gene: Werner_19 Start: 14970, Stop: 15827, Start Num: 34
Candidate Starts for Werner_19:
(Start: 34 @14970 has 117 MA's), (70, 15042), (78, 15060), (136, 15228), (146, 15255), (218, 15450), (224, 15468), (226, 15474), (240, 15528), (273, 15642), (283, 15663), (340, 15816), (342, 15819),

Gene: Whack_17 Start: 16453, Stop: 17082, Start Num: 132
Candidate Starts for Whack_17:
(62, 16246), (124, 16429), (Start: 132 @16453 has 1 MA's), (137, 16465), (149, 16504), (157, 16534), (162, 16552), (184, 16609), (186, 16612), (191, 16624), (194, 16639), (205, 16666), (209, 16675), (239, 16777), (241, 16783), (242, 16789), (252, 16837), (255, 16849), (265, 16876), (302, 16948), (317, 17002), (319, 17008), (325, 17026), (339, 17068),

Gene: Whatever_19 Start: 14970, Stop: 15827, Start Num: 34
Candidate Starts for Whatever_19:
(Start: 34 @14970 has 117 MA's), (70, 15042), (78, 15060), (136, 15228), (146, 15255), (218, 15450), (224, 15468), (226, 15474), (240, 15528), (273, 15642), (283, 15663), (340, 15816), (342, 15819),

Gene: Whiteclaw_16 Start: 13910, Stop: 14758, Start Num: 59
Candidate Starts for Whiteclaw_16:
(6, 13442), (27, 13823), (Start: 59 @13910 has 30 MA's), (63, 13916), (90, 14000), (110, 14051), (150, 14171), (177, 14258), (179, 14261), (187, 14273), (190, 14282), (198, 14309), (202, 14318), (212, 14339), (277, 14567), (332, 14723), (334, 14729),

Gene: Widow_17 Start: 14300, Stop: 15133, Start Num: 52
Candidate Starts for Widow_17:
(Start: 52 @14300 has 15 MA's), (80, 14369), (107, 14453), (126, 14504), (165, 14612), (203, 14705), (207, 14717), (209, 14723), (231, 14789), (271, 14915), (283, 14942), (285, 14945), (292, 14963), (295, 14978), (308, 15017),

Gene: Winchester007_24 Start: 13706, Stop: 14566, Start Num: 43
Candidate Starts for Winchester007_24:
(Start: 43 @13706 has 38 MA's), (56, 13742), (Start: 57 @13745 has 1 MA's), (70, 13766), (72, 13772), (78, 13784), (82, 13799), (104, 13865), (112, 13892), (125, 13922), (137, 13955), (169, 14048), (223, 14198), (224, 14204), (234, 14237), (251, 14315), (339, 14552), (340, 14555),

Gene: WorMMAs_17 Start: 13807, Stop: 14580, Start Num: 76
Candidate Starts for WorMMAs_17:
(49, 13744), (64, 13780), (76, 13807), (80, 13822), (82, 13828), (84, 13837), (107, 13906), (119, 13942), (126, 13957), (143, 14002), (165, 14056), (203, 14149), (207, 14161), (209, 14167), (210, 14170), (221, 14203), (271, 14359), (281, 14383), (283, 14386), (294, 14413), (295, 14422), (299, 14437), (303, 14449), (316, 14500), (333, 14548),

Gene: Wrackline_27 Start: 15094, Stop: 15957, Start Num: 41
Candidate Starts for Wrackline_27:
(15, 14956), (Start: 41 @15094 has 11 MA's), (47, 15103), (50, 15115), (Start: 60 @15139 has 2 MA's), (70, 15157), (82, 15190), (111, 15277), (112, 15283), (113, 15286), (125, 15313), (137, 15346), (140, 15367), (144, 15379), (158, 15412), (159, 15415), (188, 15490), (194, 15511), (197, 15520), (223, 15592), (224, 15598), (234, 15631), (239, 15655), (243, 15670), (256, 15724), (265, 15748), (283, 15793), (300, 15811), (340, 15946),

Gene: Wyvern_25 Start: 16066, Stop: 16947, Start Num: 51
Candidate Starts for Wyvern_25:
(45, 16051), (Start: 51 @16066 has 4 MA's), (120, 16273), (147, 16360), (150, 16366), (153, 16372), (161, 16405), (200, 16507), (206, 16525), (231, 16606), (301, 16813), (312, 16849), (326, 16897), (332, 16915),

Gene: Yasdnil_19 Start: 14962, Stop: 15819, Start Num: 34
Candidate Starts for Yasdnil_19:
(Start: 34 @14962 has 117 MA's), (70, 15034), (78, 15052), (136, 15220), (146, 15247), (224, 15460), (226, 15466), (243, 15532), (256, 15589), (273, 15634), (283, 15655), (331, 15781), (340, 15808), (342, 15811),

Gene: Yeet412_16 Start: 13903, Stop: 14751, Start Num: 59
Candidate Starts for Yeet412_16:
(Start: 59 @13903 has 30 MA's), (63, 13909), (110, 14044), (137, 14131), (150, 14164), (177, 14251), (179, 14254), (190, 14275), (198, 14299), (212, 14332), (275, 14554), (277, 14560), (334, 14722),

Gene: Yinzer_16 Start: 13910, Stop: 14758, Start Num: 59
Candidate Starts for Yinzer_16:
(6, 13442), (27, 13823), (Start: 59 @13910 has 30 MA's), (63, 13916), (90, 14000), (110, 14051), (150, 14171), (177, 14258), (179, 14261), (187, 14273), (190, 14282), (198, 14309), (202, 14318), (212, 14339), (277, 14567), (332, 14723), (334, 14729),

Gene: Yosif_20 Start: 15949, Stop: 16794, Start Num: 34
Candidate Starts for Yosif_20:

(Start: 34 @15949 has 117 MA's), (70, 16021), (78, 16039), (148, 16240), (158, 16270), (170, 16300), (184, 16327), (224, 16435), (226, 16441), (322, 16726), (340, 16783), (342, 16786),

Gene: Zainub_21 Start: 15320, Stop: 16177, Start Num: 34
Candidate Starts for Zainub_21:
(Start: 34 @15320 has 117 MA's), (158, 15641), (170, 15677), (224, 15818), (283, 16013), (340, 16166), (342, 16169),

Gene: ZamZam_19 Start: 15956, Stop: 16813, Start Num: 33
Candidate Starts for ZamZam_19:
(Start: 33 @15956 has 1 MA's), (44, 15971), (Start: 52 @15992 has 15 MA's), (70, 16028), (84, 16070), (95, 16109), (159, 16280), (180, 16337), (218, 16436), (223, 16448), (224, 16454), (226, 16460), (273, 16628), (283, 16649), (332, 16778), (340, 16802), (342, 16805),

Gene: Zanella_20 Start: 15341, Stop: 16234, Start Num: 43
Candidate Starts for Zanella_20:
(Start: 43 @15341 has 38 MA's), (82, 15434), (84, 15443), (111, 15521), (125, 15572), (142, 15632), (146, 15644), (158, 15686), (159, 15689), (161, 15695), (249, 15977), (250, 15980), (273, 16049), (283, 16070), (285, 16073), (312, 16133), (332, 16199),

Gene: Zemlya_20 Start: 14993, Stop: 15850, Start Num: 34
Candidate Starts for Zemlya_20:
(Start: 34 @14993 has 117 MA's), (70, 15065), (95, 15146), (136, 15251), (146, 15278), (222, 15482), (223, 15485), (224, 15491), (243, 15563), (256, 15620), (283, 15686), (340, 15839), (342, 15842),

Gene: Zucker_19 Start: 14495, Stop: 15337, Start Num: 43
Candidate Starts for Zucker_19:
(Start: 24 @14426 has 11 MA's), (25, 14435), (28, 14453), (29, 14456), (31, 14471), (Start: 43 @14495 has 38 MA's), (45, 14498), (70, 14552), (80, 14582), (82, 14588), (93, 14627), (102, 14654), (104, 14657), (109, 14672), (129, 14720), (141, 14762), (147, 14780), (161, 14825), (173, 14861), (175, 14864), (186, 14888), (219, 14981), (236, 15026), (243, 15059), (248, 15089), (256, 15116), (260, 15128), (268, 15149), (279, 15176), (301, 15206), (316, 15260), (318, 15266), (323, 15278),

Gene: phiCAM_20 Start: 17629, Stop: 18483, Start Num: 34
Candidate Starts for phiCAM_20:
(Start: 34 @17629 has 117 MA's), (Start: 52 @17665 has 15 MA's), (70, 17701), (78, 17719), (84, 17743), (115, 17836), (136, 17887), (184, 18019), (218, 18106), (223, 18118), (224, 18124), (232, 18148), (273, 18298), (283, 18319), (332, 18448), (340, 18472), (342, 18475),

Gene: phiHau3_21 Start: 15666, Stop: 16520, Start Num: 34
Candidate Starts for phiHau3_21:
(11, 15513), (Start: 34 @15666 has 117 MA's), (84, 15780), (95, 15819), (137, 15927), (155, 15969), (170, 16023), (269, 16326), (340, 16509), (342, 16512), (344, 16515),