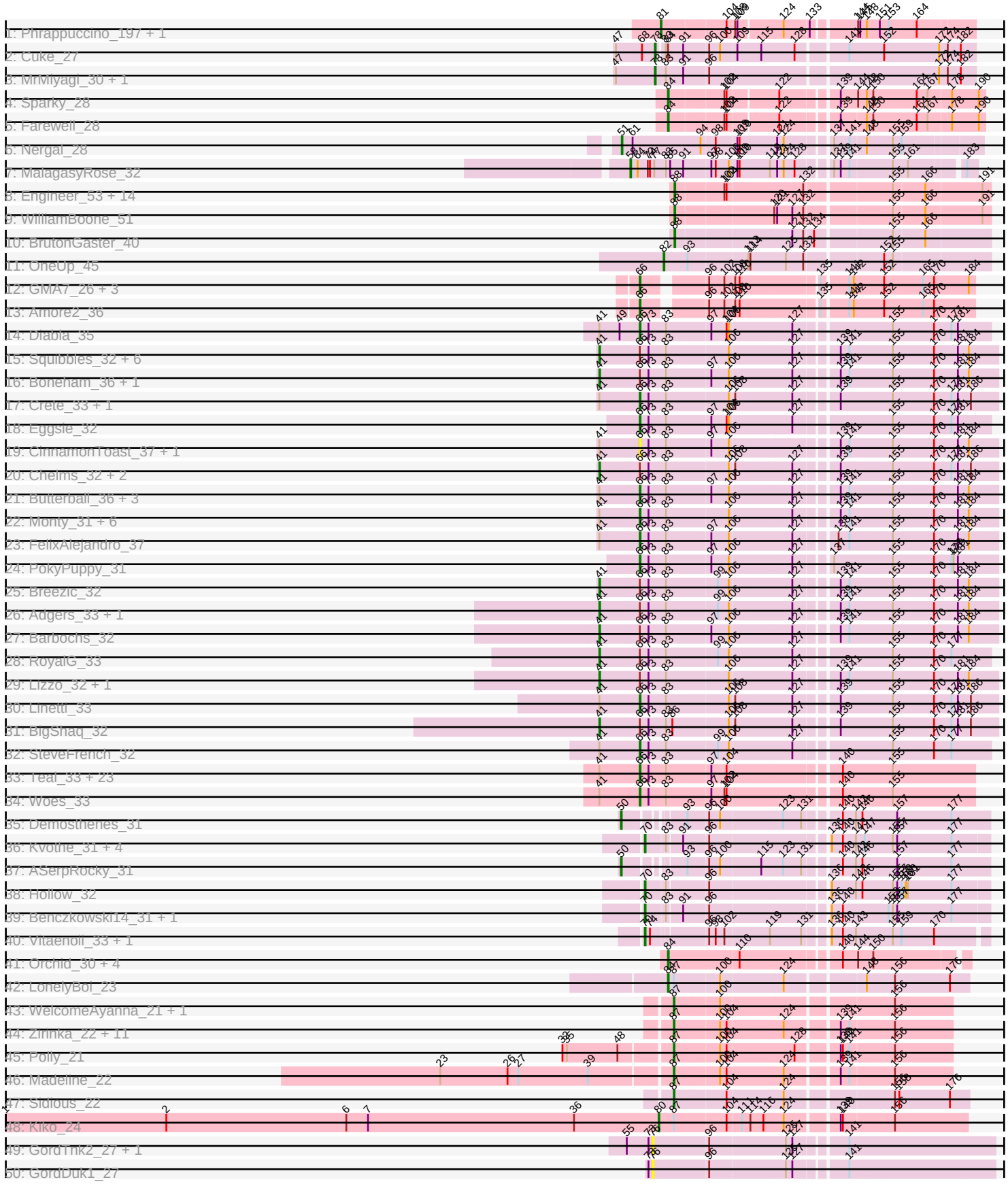
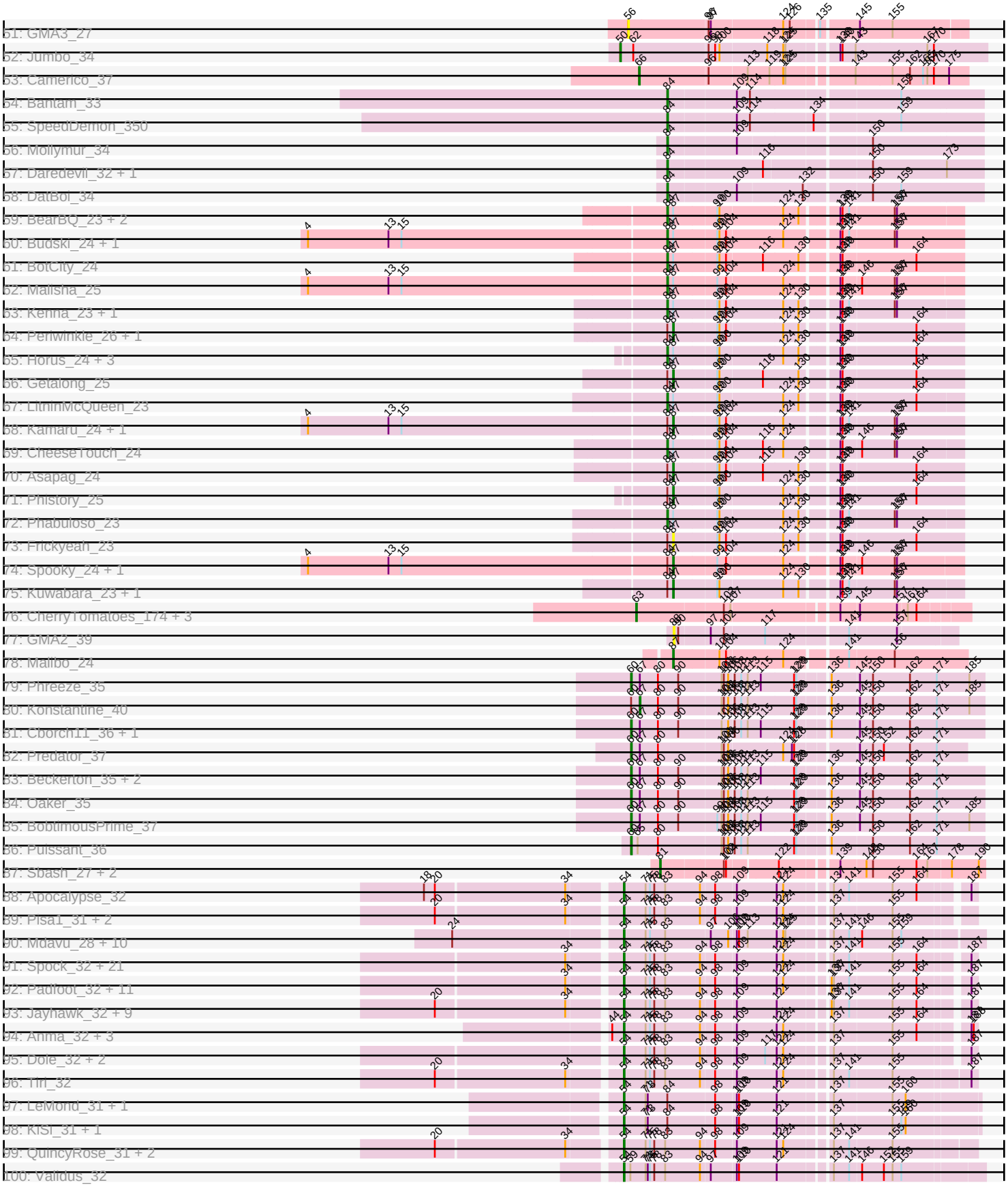
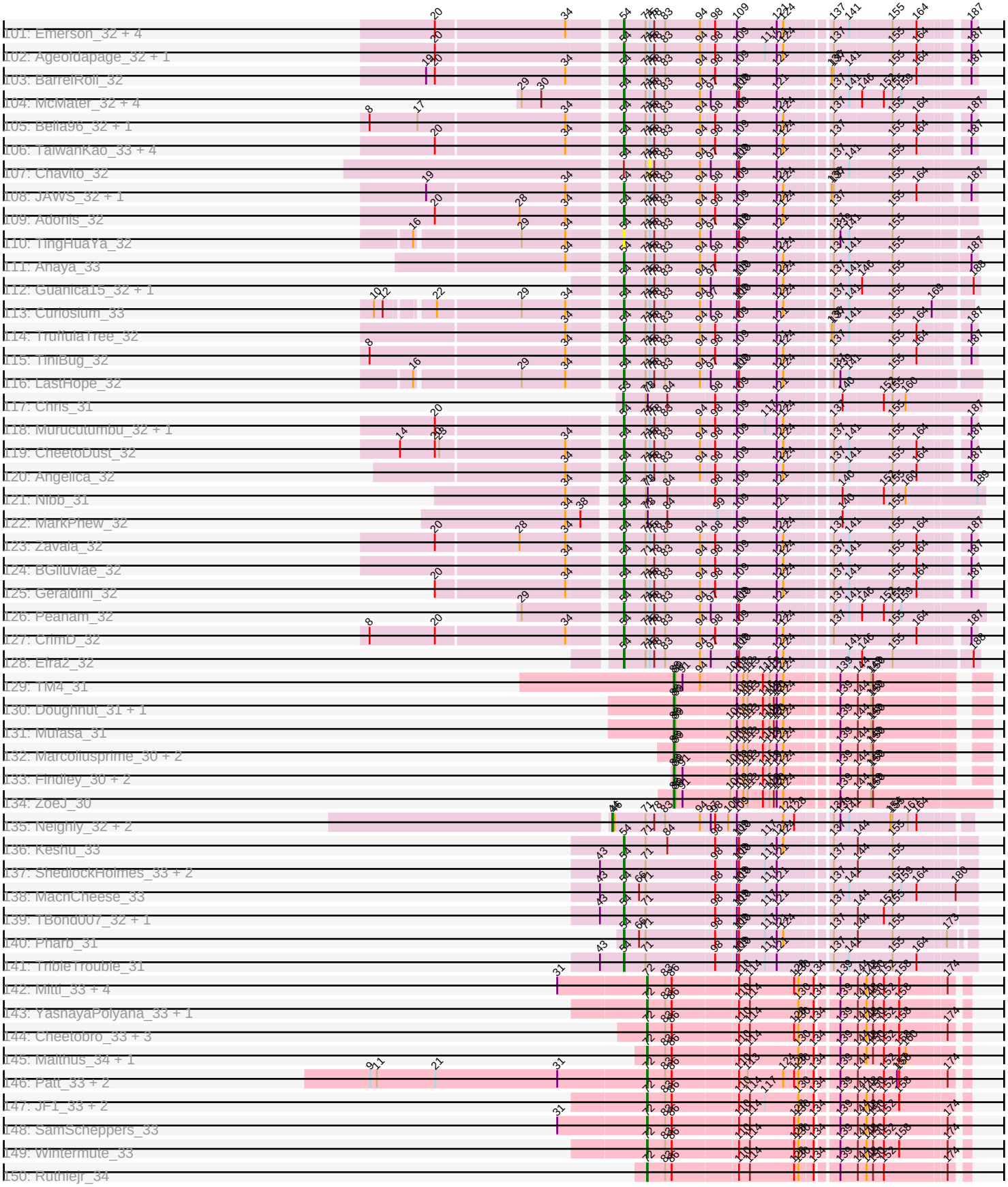
Pham 302976


1: Phrappuccino_197 + 1
2: Cuke_27
3: MrMiyagi_30 + 1
4: Sparky_28
5: Farewell_28
6: Nergal_28
7: MalagasyRose_32
8: Engineer_53 + 14
9: WilliamBoone_51
10: BrutonGaster_40
11: OneUp_45
12: GMA7_26 + 3
13: Amore2_36
14: Diabla_35
15: Squibbles_32 + 6
16: Bonehan_36 + 1
17: Crete_33 + 1
18: Eggsie_32
19: CinnamonToast_37 + 1
20: Chelms_32 + 2
21: Butterball_36 + 3
22: Monty_31 + 6
23: FelixAlejandro_37
24: PokyPuppy_31
25: Breezic_32
26: Adgers_33 + 1
27: Barbochs_32
28: RoyalG_33
29: Lizzo_32 + 1
30: Linetti_33
31: BigShaq_32
32: SteveFrench_32
33: Teal_33 + 23
34: Woes_33
35: Demosthenes_31
36: Kvothe_31 + 4
37: ASerpRocky_31
38: Hollow_32
39: Benczkowski14_31 + 1
40: Vitaeholi_33 + 1
41: Orchid_30 + 4
42: LonelyBoi_23
43: WelcomeAyanna_21 + 1
44: Zinnka_22 + 11
45: Polly_21
46: Madeline_22
47: Sidious_22
48: Kiko_24
49: GordTnk2_27 + 1
50: GordDuk1_27

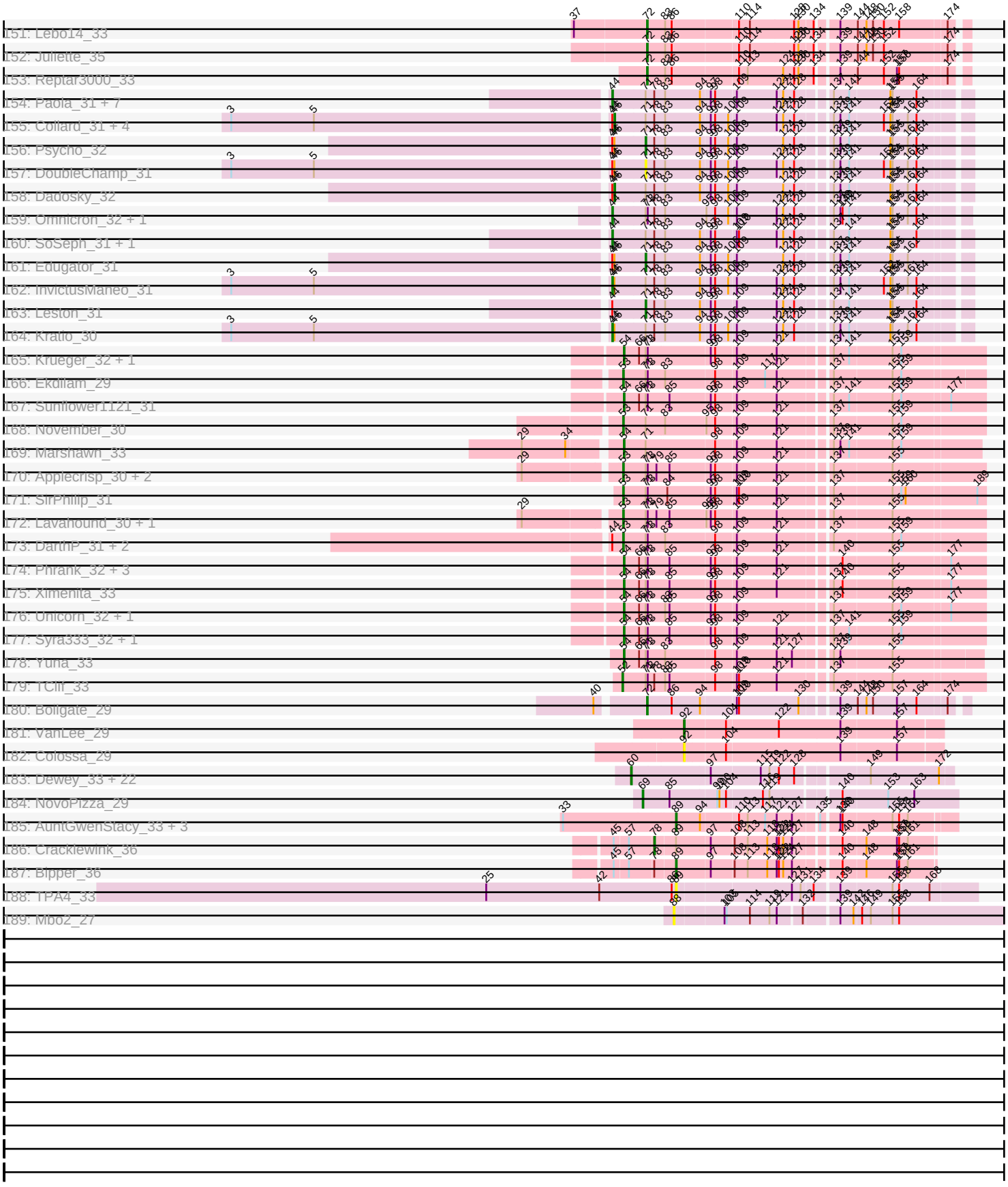
Pham 302976


51: GMA3_27
52: Jumbo_34
53: Camerico_37
54: Bantam_33
55: SpeedDemon_350
56: Mollymur_34
57: Daredevil_32 + 1
58: DatBoi_34
59: BearBQ_23 + 2
60: Budski_24 + 1
61: BotCity_24
62: Malisha_25
63: Kenna_23 + 1
64: Periwinkle_26 + 1
65: Horus_24 + 3
66: Getalong_25
67: LithiniMcQueen_23
68: Kamaru_24 + 1
69: CheeseTouch_24
70: Asapag_24
71: Phistory_25
72: Phabuloso_23
73: Frickyeah_23
74: Spooky_24 + 1
75: Kuwabara_23 + 1
76: CherryTomatoes_174 + 3
77: GMA2_39
78: Malibo_24
79: Phreeze_35
80: Konstantine_40
81: Cborch11_36 + 1
82: Predator_37
83: Beckerton_35 + 2
84: Oaker_35
85: BobtimousPrime_37
86: Puissant_36
87: Sbash_27 + 2
88: Apocalypse_32
89: Pisa1_31 + 2
90: Mdavu_28 + 10
91: Spock_32 + 21
92: Padfoot_32 + 11
93: Jayhawk_32 + 9
94: Anma_32 + 3
95: Dole_32 + 2
96: Tin_32
97: LeMond_31 + 1
98: KISI_31 + 1
99: QuincyRose_31 + 2
100: Validus_32

Pham 302976


I01: Emerson_32 + 4
I02: Ageoldapage_32 + 1
I03: BarrelRoll_32
I04: McMater_32 + 4
I05: Bella96_32 + 1
I06: TaiwanKao_33 + 4
I07: Chavito_32
I08: JAWS_32 + 1
I09: Adonis_32
I10: TingHuaYa_32
I11: Anaya_33
I12: Guanica15_32 + 1
I13: Curiosium_33
I14: TruNuiaTree_32
I15: TiniBug_32
I16: LastHope_32
I17: Chris_31
I18: Mururutumbu_32 + 1
I19: CheetoDust_32
I20: Angelica_32
I21: Nibb_31
I22: MarkPhew_32
I23: Zavala_32
I24: BGluviae_32
I25: Geraldini_32
I26: Peaham_32
I27: ChimD_32
I28: Elra2_32
I29: TM4_31
I30: Doughnut_31 + 1
I31: Mufasa_31
I32: Marcoliusprime_30 + 2
I33: Findley_30 + 2
I34: ZoeJ_30
I35: Neighly_32 + 2
I36: Keshu_33
I37: SherlockHolmes_33 + 2
I38: MachCheese_33
I39: TBond007_32 + 1
I40: Pharb_31
I41: TripleTrouble_31
I42: Mitti_33 + 4
I43: YashayaPolyana_33 + 1
I44: Cheetobro_33 + 3
I45: Malthus_34 + 1
I46: Patt_33 + 2
I47: JF1_33 + 2
I48: SamScheppers_33
I49: Wintermute_33
I50: Ruthiejr_34

Pham 302976


151: Lebo14_33
152: Juliette_35
153: Reptar3000_33
154: Paola_31 + 7
155: Collard_31 + 4
156: Psycho_32
157: DoubleChamp_31
158: Dadosky_32
159: Omnicron_32 + 1
160: SoSeph_31 + 1
161: Edugator_31
162: InvictusManeo_31
163: Leston_31
164: Kratio_30
165: Krueger_32 + 1
166: Ekuliam_29
167: Sunflower1121_31
168: November_30
169: Marshawn_33
170: Applecrisp_30 + 2
171: SirPhilip_31
172: Lavahound_30 + 1
173: DarthP_31 + 2
174: Phrank_32 + 3
175: Ximenita_33
176: Unicorn_32 + 1
177: Syra333_32 + 1
178: Yuna_33
179: TCliff_33
180: Boilgate_29
181: VanLee_29
182: Colossa_29
183: Dewey_33 + 22
184: NovoPizza_29
185: AuntGwenStacy_33 + 3
186: Cracklewink_36
187: Bipper_36
188: TPA4_33
189: Mbo2_27

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 302976 Report

This analysis was run 06/08/26 on database version 649.

Pham number 302976 has 447 members, 40 are drafts.

Phages represented in each track:
• Track 1 : Phrappuccino_197, Settecandela_222
• Track 2 : Cuke_27
• Track 3 : MrMiyagi_30, Fowlmouth_30
• Track 4 : Sparky_28
• Track 5 : Farewell_28
• Track 6 : Nergal_28
• Track 7 : MalagasyRose_32
• Track 8 : Engineer_53, ClubL_51, Aphelion_51, Bachita_53, Norvs_52, Lozinak_52, Abscondus_50, Smoothie_53, Toniann_51, Geeche_50, Miskis_49, Dusty_50, PhinkBoden_51, Cucurbita_53, Culver_51
• Track 9 : WilliamBoone_51
• Track 10 : BrutonGaster_40
• Track 11 : OneUp_45
• Track 12 : GMA7_26, GTE7_26, HayZem_35, Austin_36
• Track 13 : Amore2_36
• Track 14 : Diabla_35
• Track 15 : Squibbles_32, Flakey_32, Hotorobo_32, Gorko_32, Sam12_32, GourdThymes_32, Ekhein_32
• Track 16 : Boneham_36, BirksAndSocks_36
• Track 17 : Crete_33, BenoitCattle_32
• Track 18 : Eggsie_32
• Track 19 : CinnamonToast_37, BillyBobJr_37
• Track 20 : Chelms_32, PierreThree_32, Dakiti_32
• Track 21 : Butterball_36, Jellybones_36, Msay19_37, Poland_37
• Track 22 : Monty_31, Kelzog_32, John316_36, Exiguo_32, RemRem_33, Beaver_36, Worcestershire_32
• Track 23 : FelixAlejandro_37
• Track 24 : PokyPuppy_31
• Track 25 : Breezic_32
• Track 26 : Adgers_33, Sombrero_32
• Track 27 : Barbochs_32
• Track 28 : RoyalG_33
• Track 29 : Lizzo_32, CathyBurgh_32
• Track 30 : Linetti_33
• Track 31 : BigShaq_32
• Track 32 : SteveFrench_32

• Track 33 : Teal_33, Minos_34, Harambe_33, Anamika_33, Berries_33, MrWormie_33, Lidong_33, Guillaume_33, Lahirium_33, Shelley_33, Bianmat_33, Damp_33, Newt_34, Jams_33, Luker_34, Sticker17_33, Hail2Pitt_33, Hello_33, Jormungandr_33, Kaseim_33, Nimi13_33, Charianelly_33, Neoevie_33, GalacticEye_33
• Track 34 : Woes_33
• Track 35 : Demosthenes_31
• Track 36 : Kvothe_31, Niagara_31, Teatealatte_31, Tredge_31, Teech_31
• Track 37 : ASerpRocky_31
• Track 38 : Hollow_32
• Track 39 : Benczkowski14_31, Katyusha_31
• Track 40 : Vitaenoii_33, Philon9_33
• Track 41 : Orchid_30, Gibbles_29, PatrickStar_30, Kampe_30, RobinSparkles_33
• Track 42 : LonelyBoi_23
• Track 43 : WelcomeAyanna_21, ThankyouJordi_21
• Track 44 : Zirinka_22, SushiChef_24, Nymphadora_22, Madavieve_22, Bosnia_22, Eviarto_22, BatStarr_22, TimTam_22, Ohgeesy_22, Bialota_22, Herod_22, Hugley_22
• Track 45 : Polly_21
• Track 46 : Madeline_22
• Track 47 : Sidious_22
• Track 48 : Kiko_24
• Track 49 : GordTnk2_27, Gmala1_27
• Track 50 : GordDuk1_27
• Track 51 : GMA3_27
• Track 52 : Jumbo_34
• Track 53 : Camerico_37
• Track 54 : Bantam_33
• Track 55 : SpeedDemon_350
• Track 56 : Mollymur_34
• Track 57 : Daredevil_32, Towmatter_31
• Track 58 : DatBoi_34
• Track 59 : BearBQ_23, Birdsong_23, MortyNRick_23
• Track 60 : Budski_24, Holliday_24
• Track 61 : BotCity_24
• Track 62 : Malisha_25
• Track 63 : Kenna_23, Lutum_24
• Track 64 : Periwinkle_26, ShawBrad_24
• Track 65 : Horus_24, Crater_22, Leroy_24, Apricot_23
• Track 66 : Getalong_25
• Track 67 : LitninMcQueen_23
• Track 68 : Kamaru_24, Whitney_25
• Track 69 : CheeseTouch_24
• Track 70 : Asapag_24
• Track 71 : Phistory_25
• Track 72 : Phabuloso_23
• Track 73 : Frickyeah_23
• Track 74 : Spooky_24, Squiddly_26
• Track 75 : Kuwabara_23, BENtherdunthat_24
• Track 76 : CherryTomatoes_174, Pupper_173, Skog_5, SCentae_172
• Track 77 : GMA2_39
• Track 78 : Malibo_24
• Track 79 : Phreeze_35

• Track 80 : Konstantine_40
• Track 81 : Cborch11_36, Megatron06_37
• Track 82 : Predator_37
• Track 83 : Beckerton_35, Damien_35, Thumb_35
• Track 84 : Oaker_35
• Track 85 : BobtimousPrime_37
• Track 86 : Puissant_36
• Track 87 : Sbash_27, Stuck_31, IdentityCrisis_27
• Track 88 : Apocalypse_32
• Track 89 : Pisa1_31, Bern_32, Pisa4_31
• Track 90 : Mdavu_28, Teejan_28, Trice_28, Enkosi_28, Amelie_28, Nikao_28, LilPharaoh_28, Biglebops_28, Torres_28, SgtBeansprout_28, Nutello_28
• Track 91 : Spock_32, MacKat_32, Topper_32, Twitch_32, Llorens_32, Sulley_32, Joy99_32, Dalmuri_32, Jeckyll_32, Peel_32, Belladonna_32, CREW_32, AlishaPH_32, Rosmarinus_32, Clipper_32, Lunahalos_32, Inky_32, Deby_32, Capricorn_32, CallaLilly_32, Jarvi_32, YoureAdopted_31
• Track 92 : Padfoot_32, CaseJules_32, Blizzard_32, Homura_32, Durfee_32, BEEST_32, Asayake_32, BaghaKamala_32, Piatt_32, ShiaSurprise_32, Boiiii_32, Hyperbowlee_32
• Track 93 : Jayhawk_32, Slimphazie_32, ActinUp_32, HedwigODU_32, Veliki_32, Atiba_32, Adephagia_32, Tachez_32, Zabiza_32, Rapunzel97_32
• Track 94 : Anma_32, Urkel_32, SamuelLPlaqson_32, DrHayes_32
• Track 95 : Dole_32, Devera_32, Illumine_32
• Track 96 : Tiri_32
• Track 97 : LeMond_31, Oscar_31
• Track 98 : KiSi_31, Scarlett_31
• Track 99 : QuincyRose_31, MeaningOfLife_32, Ganymede_33
• Track 100 : Validus_32
• Track 101 : Emerson_32, Padpat_32, Mynx_32, Beezoo_32, Pokerus_31
• Track 102 : Ageofdapage_32, Stinson_33
• Track 103 : BarrelRoll_32
• Track 104 : McMater_32, Niklas_32, Richo_32, Dartin_32, Shaobing_32
• Track 105 : Bella96_32, DartGoblin_32
• Track 106 : TaiwanKao_33, LindNT_32, Prithvi_32, TreyKay_32, Megsy_32
• Track 107 : Chavito_32
• Track 108 : JAWS_32, Ramen_32
• Track 109 : Adonis_32
• Track 110 : TingHuaYa_32
• Track 111 : Anaya_33
• Track 112 : Guanica15_32, Yunkel11_32
• Track 113 : Curiosium_33
• Track 114 : TruffulaTree_32
• Track 115 : TiniBug_32
• Track 116 : LastHope_32
• Track 117 : Chris_31
• Track 118 : Murucutumbu_32, LaterM_32
• Track 119 : CheetoDust_32
• Track 120 : Angelica_32
• Track 121 : Nibb_31
• Track 122 : MarkPhew_32
• Track 123 : Zavala_32
• Track 124 : BGlluviae_32
• Track 125 : Geraldini_32

• Track 126 : Peanam_32
• Track 127 : CrimD_32
• Track 128 : Efra2_32
• Track 129 : TM4_31
• Track 130 : Doughnut_31, BoostSeason_31
• Track 131 : Mufasa_31
• Track 132 : Marcoliusprime_30, DismalStressor_30, DismalFunk_30
• Track 133 : Findley_30, Strobilo_30, Milly_30
• Track 134 : ZoeJ_30
• Track 135 : Neighly_32, Larva_32, AlleyCat_32
• Track 136 : Keshu_33
• Track 137 : ShedlockHolmes_33, Hurricane_33, Lea83_33
• Track 138 : MacnCheese_33
• Track 139 : TBond007_32, Pixie_32
• Track 140 : Pharb_31
• Track 141 : TribleTrouble_31
• Track 142 : Mitti_33, Eponine_35, OmniCritical_33, Taquito_33, DanSyl44_36
• Track 143 : YasnayaPolyana_33, Fionnbharth_33
• Track 144 : Cheetobro_33, Chancellor_33, Qhanda_34, Slarp_33
• Track 145 : Malthus_34, Kraw_33
• Track 146 : Patt_33, MissDaisy_33, Bobquesha_34
• Track 147 : JF1_33, Y2_33, Y10_33
• Track 148 : SamScheppers_33
• Track 149 : Wintermute_33
• Track 150 : Ruthiejr_34
• Track 151 : Lebo14_33
• Track 152 : Juliette_35
• Track 153 : Reptar3000_33
• Track 154 : Paola_31, Thyatira_31, Feyre_31, OkiRoe_31, Waterfoul_31, Gengar_31, Miryou_31, Guillsminger_31
• Track 155 : Collard_31, BananenDer11_31, ViviJ_30, Agent47_31, LilDirt_30
• Track 156 : Psycho_32
• Track 157 : DoubleChamp_31
• Track 158 : Dadosky_32
• Track 159 : Omnicron_32, Rando14_32
• Track 160 : SoSeph_31, Heftyboy_31
• Track 161 : Edugator_31
• Track 162 : InvictusManeo_31
• Track 163 : Leston_31
• Track 164 : Kratio_30
• Track 165 : Krueger_32, Tigress9_32
• Track 166 : Ekdilam_29
• Track 167 : Sunflower1121_31
• Track 168 : November_30
• Track 169 : Marshawn_33
• Track 170 : Applecrisp_30, Fefferhead_31, Ellie_29
• Track 171 : SirPhilip_31
• Track 172 : Lavahound_30, Amgine_30
• Track 173 : DarthP_31, Hammy_31, Amohnition_31
• Track 174 : Phrank_32, Bryler_32, Tierra_32, Cain_32
• Track 175 : Ximenita_33
• Track 176 : Unicorn_32, PhelpsODU_32
• Track 177 : Syra333_32, Shadow1_31

• Track 178 : Yuna_33
• Track 179 : TClif_33
• Track 180 : Boilgate_29
• Track 181 : VanLee_29
• Track 182 : Colossa_29
• Track 183 : Dewey_33, Forge_33, Hail_33, BloominB_34, OBUpride_34, Luna22_33, Hadrien_34, HH92_33, Wishmaker_33, Amymech_34, Gancho_33, Webster2_34, Luke_34, Amochick_34, Giles_33, LilHazelnut_34, DeepSoil15_34, Kinbote_34, Gravaillia_33, Ubuntu_34, Evanesce_33, Ein37_34, Daegal_35
• Track 184 : NovoPizza_29
• Track 185 : AuntGwenStacy_33, Hilltopfarm_33, Faiyaz_33, Typha_33
• Track 186 : Cracklewink_36
• Track 187 : Bipper_36
• Track 188 : TPA4_33
• Track 189 : Mbo2_27

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

The start number called the most often in the published annotations is 54, it was called in 131 of the 407 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ActinUp_32, Adephagia_32, Adonis_32, Ageofdapage_32, AlishaPH_32, Amelie_28, Anaya_33, Angelica_32, Anma_32, Apocalypse_32, Asayake_32, Atiba_32, BEEST_32, BGlluviae_32, BaghaKamala_32, BarrelRoll_32, Beezoo_32, Bella96_32, Belladonna_32, Bern_32, Biglebops_28, Blizzard_32, Boiiii_32, Bryler_32, CREW_32, Cain_32, CallaLilly_32, Capricorn_32, CaseJules_32, CheetoDust_32, Clipper_32, CrimD_32, Curiosium_33, Dalmuri_32, DartGoblin_32, Dartin_32, Deby_32, Devera_32, Dole_32, DrHayes_32, Durfee_32, Efra2_32, Emerson_32, Enkosi_28, Ganymede_33, Geraldini_32, Guanica15_32, HedwigODU_32, Homura_32, Hurricane_33, Hyperbowlee_32, Illumine_32, Inky_32, JAWS_32, Jarvi_32, Jayhawk_32, Jeckyll_32, Joy99_32, Keshu_33, KiSi_31, Krueger_32, LastHope_32, LaterM_32, LeMond_31, Lea83_33, LilPharaoh_28, LindNT_32, Llorens_32, Lunahalos_32, MacKat_32, MacnCheese_33, MarkPhew_32, Marshawn_33, McMater_32, Mdavu_28, MeaningOfLife_32, Megsy_32, Murucutumbu_32, Mynx_32, Nibb_31, Nikao_28, Niklas_32, Nutello_28, Oscar_31, Padfoot_32, Padpat_32, Peanam_32, Peel_32, Pharb_31, PhelpsODU_32, Phrank_32, Piatt_32, Pisa1_31, Pisa4_31, Pixie_32, Pokerus_31, Prithvi_32, QuincyRose_31, Ramen_32, Rapunzel97_32, Richo_32, Rosmarinus_32, SamuelLPlaqson_32, Scarlett_31, SgtBeansprout_28, Shadow1_31, Shaobing_32, ShedlockHolmes_33, ShiaSurprise_32, Slimphazie_32, Spock_32, Stinson_33, Sulley_32, Sunflower1121_31, Syra333_32, TBond007_32, Tachez_32, TaiwanKao_33, Teejan_28, Tierra_32, Tigress9_32, TingHuaYa_32, TiniBug_32, Tiri_32, Topper_32, Torres_28, TreyKay_32, TribleTrouble_31, Trice_28, TruffulaTree_32, Twitch_32, Unicorn_32, Urkel_32, Validus_32, Veliki_32, Ximenita_33, YoureAdopted_31, Yuna_33, Yunkel11_32, Zabiza_32, Zavala_32,

Genes that have the "Most Annotated" start but do not call it:
• Chavito_32,

Genes that do not have the "Most Annotated" start:
• ASerpRocky_31, Abscondus_50, Adgers_33, Agent47_31, AlleyCat_32, Amgine_30, Amochick_34, Amohnition_31, Amore2_36, Amymech_34, Anamika_33, Aphelion_51, Applecrisp_30, Apricot_23, Asapag_24, AuntGwenStacy_33, Austin_36, BENtherdunthat_24, Bachita_53, BananenDer11_31, Bantam_33, Barbochs_32, BatStarr_22, BearBQ_23, Beaver_36, Beckerton_35, Benczkowski14_31, BenoitCattle_32, Berries_33, Bialota_22, Bianmat_33, BigShaq_32, BillyBobJr_37, Bipper_36, Birdsong_23, BirksAndSocks_36, BloominB_34, Bobquesha_34, BobtimousPrime_37, Boilgate_29, Boneham_36, BoostSeason_31, Bosnia_22, BotCity_24, Breezic_32, BrutonGaster_40, Budski_24, Butterball_36, Camerico_37, CathyBurgh_32, Cborch11_36, Chancellor_33, Charianelly_33, CheeseTouch_24, Cheetobro_33, Chelms_32, CherryTomatoes_174, Chris_31, CinnamonToast_37, ClubL_51, Collard_31, Colossa_29, Cracklewink_36, Crater_22, Crete_33, Cucurbita_53, Cuke_27, Culver_51, Dadosky_32, Daegal_35, Dakiti_32, Damien_35, Damp_33, DanSyl44_36, Daredevil_32, DarthP_31, DatBoi_34, DeepSoil15_34, Demosthenes_31, Dewey_33, Diabla_35, DismalFunk_30, DismalStressor_30, DoubleChamp_31, Doughnut_31, Dusty_50, Edugator_31, Eggsie_32, Ein37_34, Ekdilam_29, Ekhein_32, Ellie_29, Engineer_53, Eponine_35, Evanesce_33, Eviarto_22, Exiguo_32, Faiyaz_33, Farewell_28, Fefferhead_31, FelixAlejandro_37, Feyre_31, Findley_30, Fionnbharth_33, Flakey_32, Forge_33, Fowlmouth_30, Frickyeah_23, GMA2_39, GMA3_27, GMA7_26, GTE7_26, GalacticEye_33, Gancho_33, Geeche_50, Gengar_31, Getalong_25, Gibbles_29, Giles_33, Gmala1_27, GordDuk1_27, GordTnk2_27, Gorko_32, GourdThymes_32, Gravaillia_33, Guillaume_33, Guillsminger_31, HH92_33, Hadrien_34, Hail2Pitt_33, Hail_33, Hammy_31, Harambe_33, HayZem_35, Heftyboy_31, Hello_33, Herod_22, Hilltopfarm_33, Holliday_24, Hollow_32, Horus_24, Hotorobo_32, Hugley_22, IdentityCrisis_27, InvictusManeo_31, JF1_33, Jams_33, Jellybones_36, John316_36, Jormungandr_33, Juliette_35, Jumbo_34, Kamaru_24, Kampe_30, Kaseim_33, Katyusha_31, Kelzog_32, Kenna_23, Kiko_24, Kinbote_34, Konstantine_40, Kratio_30, Kraw_33, Kuwabara_23, Kvothe_31, Lahirium_33, Larva_32, Lavahound_30, Lebo14_33, Leroy_24, Leston_31, Lidong_33, LilDirt_30, LilHazelnut_34, Linetti_33, LitninMcQueen_23, Lizzo_32, LonelyBoi_23, Lozinak_52, Luke_34, Luker_34, Luna22_33, Lutum_24, Madavieve_22, Madeline_22, MalagasyRose_32, Malibo_24, Malisha_25, Malthus_34, Marcoliusprime_30, Mbo2_27, Megatron06_37, Milly_30, Minos_34, Miryou_31, Miskis_49, MissDaisy_33, Mitti_33, Mollymur_34, Monty_31, MortyNRick_23, MrMiyagi_30, MrWormie_33, Msay19_37, Mufasa_31, Neighly_32, Neoevie_33, Nergal_28, Newt_34, Niagara_31, Nimi13_33, Norvs_52, November_30, NovoPizza_29, Nymphadora_22, OBUpride_34, Oaker_35, Ohgeesy_22, OkiRoe_31, OmniCritical_33, Omnicron_32, OneUp_45, Orchid_30, Paola_31, PatrickStar_30, Patt_33, Periwinkle_26, Phabuloso_23, Philon9_33, PhinkBoden_51, Phistory_25, Phrappuccino_197, Phreeze_35, PierreThree_32, PokyPuppy_31, Poland_37, Polly_21, Predator_37, Psycho_32, Puissant_36, Pupper_173, Qhanda_34, Rando14_32, RemRem_33, Reptar3000_33, RobinSparkles_33, RoyalG_33, Ruthiejr_34, SCentae_172, Sam12_32, SamScheppers_33, Sbash_27, Settecandela_222, ShawBrad_24, Shelley_33, Sidious_22, SirPhilip_31, Skog_5, Slarp_33, Smoothie_53, SoSeph_31, Sombrero_32, Sparky_28, SpeedDemon_350, Spooky_24, Squibbles_32, Squiddly_26, SteveFrench_32, Sticker17_33, Strobilo_30, Stuck_31, SushiChef_24, TClif_33, TM4_31, TPA4_33, Taquito_33, Teal_33, Teatealatte_31, Teech_31, ThankyouJordi_21, Thumb_35, Thyatira_31, TimTam_22, Toniann_51, Towmatter_31, Tredge_31, Typha_33, Ubuntu_34, VanLee_29, Vitaenoii_33, ViviJ_30, Waterfoul_31, Webster2_34, WelcomeAyanna_21,

Whitney_25, WilliamBoone_51, Wintermute_33, Wishmaker_33, Woes_33, Worcestershire_32, Y10_33, Y2_33, YasnayaPolyana_33, Zirinka_22, ZoeJ_30,

Summary by start number:

Start 41:
• Found in 64 of 447 (14.3%) of genes in pham
• Manual Annotations of this start: 20 of 407
• Called 31.2% of time when present
• Phage (with cluster) where this start called: Adgers_33 (CS2), Barbochs_32 (CS2), BigShaq_32 (CS2), BirksAndSocks_36 (CS2), Boneham_36 (CS2), Breezic_32 (CS2), CathyBurgh_32 (CS2), Chelms_32 (CS2), Dakiti_32 (CS2), Ekhein_32 (CS2), Flakey_32 (CS2), Gorko_32 (CS2), GourdThymes_32 (CS2), Hotorobo_32 (CS2), Lizzo_32 (CS2), PierreThree_32 (CS2), RoyalG_33 (CS2), Sam12_32 (CS2), Sombrero_32 (CS2), Squibbles_32 (CS2),

Start 44:
• Found in 34 of 447 (7.6%) of genes in pham
• Manual Annotations of this start: 16 of 407
• Called 50.0% of time when present
• Phage (with cluster) where this start called: AlleyCat_32 (K5), Feyre_31 (K5), Gengar_31 (K5), Guillsminger_31 (K5), Heftyboy_31 (K5), InvictusManeo_31 (K5), Kratio_30 (K5), Larva_32 (K5), Miryou_31 (K5), Neighly_32 (K3), OkiRoe_31 (K5), Omnicron_32 (K5), Paola_31 (K5), Rando14_32 (K5), SoSeph_31 (K5), Thyatira_31 (K5), Waterfoul_31 (K5),

Start 46:
• Found in 14 of 447 (3.1%) of genes in pham
• Manual Annotations of this start: 6 of 407
• Called 42.9% of time when present
• Phage (with cluster) where this start called: Agent47_31 (K5), BananenDer11_31 (K5), Collard_31 (K5), Dadosky_32 (K5), LilDirt_30 (K5), ViviJ_30 (K5),

Start 50:
• Found in 3 of 447 (0.7%) of genes in pham
• Manual Annotations of this start: 3 of 407
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ASerpRocky_31 (CS4), Demosthenes_31 (CS4), Jumbo_34 (DF3),

Start 51:
• Found in 1 of 447 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 407
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Nergal_28 (AG),

Start 52:
• Found in 1 of 447 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 407
• Called 100.0% of time when present
• Phage (with cluster) where this start called: TClif_33 (K6),

Start 53:

• Found in 12 of 447 (2.7%) of genes in pham
• Manual Annotations of this start: 12 of 407
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amgine_30 (K6), Amohnition_31 (K6), Applecrisp_30 (K6), Chris_31 (K1), DarthP_31 (K6), Ekdilam_29 (K6), Ellie_29 (K6), Fefferhead_31 (K6), Hammy_31 (K6), Lavahound_30 (K6), November_30 (K6), SirPhilip_31 (K6),

Start 54:
• Found in 142 of 447 (31.8%) of genes in pham
• Manual Annotations of this start: 131 of 407
• Called 99.3% of time when present
• Phage (with cluster) where this start called: ActinUp_32 (K1), Adephagia_32 (K1), Adonis_32 (K1), Ageofdapage_32 (K1), AlishaPH_32 (K1), Amelie_28 (K1), Anaya_33 (K1), Angelica_32 (K1), Anma_32 (K1), Apocalypse_32 (K1), Asayake_32 (K1), Atiba_32 (K1), BEEST_32 (K1), BGlluviae_32 (K1), BaghaKamala_32 (K1), BarrelRoll_32 (K1), Beezoo_32 (K1), Bella96_32 (K1), Belladonna_32 (K1), Bern_32 (K1), Biglebops_28 (K1), Blizzard_32 (K1), Boiiii_32 (K1), Bryler_32 (K6), CREW_32 (K1), Cain_32 (K6), CallaLilly_32 (K1), Capricorn_32 (K1), CaseJules_32 (K1), CheetoDust_32 (K1), Clipper_32 (K1), CrimD_32 (K1), Curiosium_33 (K1), Dalmuri_32 (K1), DartGoblin_32 (K1), Dartin_32 (K1), Deby_32 (K1), Devera_32 (K1), Dole_32 (K1), DrHayes_32 (K1), Durfee_32 (K1), Efra2_32 (K1), Emerson_32 (K1), Enkosi_28 (K1), Ganymede_33 (K1), Geraldini_32 (K1), Guanica15_32 (K1), HedwigODU_32 (K1), Homura_32 (K1), Hurricane_33 (K3), Hyperbowlee_32 (K1), Illumine_32 (K1), Inky_32 (K1), JAWS_32 (K1), Jarvi_32 (K1), Jayhawk_32 (K1), Jeckyll_32 (K1), Joy99_32 (K1), Keshu_33 (K3), KiSi_31 (K1), Krueger_32 (K6), LastHope_32 (K1), LaterM_32 (K1), LeMond_31 (K1), Lea83_33 (K3), LilPharaoh_28 (K1), LindNT_32 (K1), Llorens_32 (K1), Lunahalos_32 (K1), MacKat_32 (K1), MacnCheese_33 (K3), MarkPhew_32 (K1), Marshawn_33 (K6), McMater_32 (K1), Mdavu_28 (K1), MeaningOfLife_32 (K1), Megsy_32 (K1), Murucutumbu_32 (K1), Mynx_32 (K1), Nibb_31 (K1), Nikao_28 (K1), Niklas_32 (K1), Nutello_28 (K1), Oscar_31 (K1), Padfoot_32 (K1), Padpat_32 (K1), Peanam_32 (K1), Peel_32 (K1), Pharb_31 (K3), PhelpsODU_32 (K6), Phrank_32 (K6), Piatt_32 (K1), Pisa1_31 (K1), Pisa4_31 (K1), Pixie_32 (K3), Pokerus_31 (K1), Prithvi_32 (K1), QuincyRose_31 (K1), Ramen_32 (K1), Rapunzel97_32 (K1), Richo_32 (K1), Rosmarinus_32 (K1), SamuelLPlaqson_32 (K1), Scarlett_31 (K1), SgtBeansprout_28 (K1), Shadow1_31 (K6), Shaobing_32 (K1), ShedlockHolmes_33 (K3), ShiaSurprise_32 (K1), Slimphazie_32 (K1), Spock_32 (K1), Stinson_33 (K1), Sulley_32 (K1), Sunflower1121_31 (K6), Syra333_32 (K6), TBond007_32 (K3), Tachez_32 (K1), TaiwanKao_33 (K1), Teejan_28 (K1), Tierra_32 (K6), Tigress9_32 (K6), TingHuaYa_32 (K1), TiniBug_32 (K1), Tiri_32 (K1), Topper_32 (K1), Torres_28 (K1), TreyKay_32 (K1), TribleTrouble_31 (K3), Trice_28 (K1), TruffulaTree_32 (K1), Twitch_32 (K1), Unicorn_32 (K6), Urkel_32 (K1), Validus_32 (K1), Veliki_32 (K1), Ximenita_33 (K6), YoureAdopted_31 (K1), Yuna_33 (K6), Yunkel11_32 (K1), Zabiza_32 (K1), Zavala_32 (K1),

Start 56:
• Found in 1 of 447 (0.2%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GMA3_27 (DF2),

Start 58:

• Found in 1 of 447 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 407
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MalagasyRose_32 (AG),

Start 60:
• Found in 34 of 447 (7.6%) of genes in pham
• Manual Annotations of this start: 32 of 407
• Called 97.1% of time when present
• Phage (with cluster) where this start called: Amochick_34 (Q), Amymech_34 (Q), Beckerton_35 (H1), BloominB_34 (Q), BobtimousPrime_37 (H1), Cborch11_36 (H1), Daegal_35 (Q), Damien_35 (H1), DeepSoil15_34 (Q), Dewey_33 (Q), Ein37_34 (Q), Evanesce_33 (Q), Forge_33 (Q), Gancho_33 (Q), Giles_33 (Q), Gravaillia_33 (Q), HH92_33 (Q), Hadrien_34 (Q), Hail_33 (Q), Kinbote_34 (Q), LilHazelnut_34 (Q), Luke_34 (Q), Luna22_33 (Q), Megatron06_37 (H1), OBUpride_34 (Q), Oaker_35 (H1), Phreeze_35 (H1), Predator_37 (H1), Puissant_36 (H1), Thumb_35 (H1), Ubuntu_34 (Q), Webster2_34 (Q), Wishmaker_33 (Q),

Start 63:
• Found in 4 of 447 (0.9%) of genes in pham
• Manual Annotations of this start: 4 of 407
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CherryTomatoes_174 (DO), Pupper_173 (DO), SCentae_172 (DO), Skog_5 (DO),

Start 66:
• Found in 87 of 447 (19.5%) of genes in pham
• Manual Annotations of this start: 45 of 407
• Called 59.8% of time when present
• Phage (with cluster) where this start called: Amore2_36 (CS1), Anamika_33 (CS3), Austin_36 (CS1), Beaver_36 (CS2), BenoitCattle_32 (CS2), Berries_33 (CS3), Bianmat_33 (CS3), BillyBobJr_37 (CS2), Butterball_36 (CS2), Camerico_37 (DF4), Charianelly_33 (CS3), CinnamonToast_37 (CS2), Crete_33 (CS2), Damp_33 (CS3), Diabla_35 (CS2), Eggsie_32 (CS2), Exiguo_32 (CS2), FelixAlejandro_37 (CS2), GMA7_26 (CS1), GTE7_26 (CS1), GalacticEye_33 (CS3), Guillaume_33 (CS3), Hail2Pitt_33 (CS3), Harambe_33 (CS3), HayZem_35 (CS1), Hello_33 (CS3), Jams_33 (CS3), Jellybones_36 (CS2), John316_36 (CS2), Jormungandr_33 (CS3), Kaseim_33 (CS3), Kelzog_32 (CS2), Lahirium_33 (CS3), Lidong_33 (CS3), Linetti_33 (CS2), Luker_34 (CS3), Minos_34 (CS3), Monty_31 (CS2), MrWormie_33 (CS3), Msay19_37 (CS2), Neoevie_33 (CS3), Newt_34 (CS3), Nimi13_33 (CS3), PokyPuppy_31 (CS2), Poland_37 (CS2), RemRem_33 (CS2), Shelley_33 (CS3), SteveFrench_32 (CS2), Sticker17_33 (CS3), Teal_33 (CS3), Woes_33 (CS3), Worcestershire_32 (CS2),

Start 67:
• Found in 10 of 447 (2.2%) of genes in pham
• Manual Annotations of this start: 1 of 407
• Called 10.0% of time when present
• Phage (with cluster) where this start called: Konstantine_40 (H1),

Start 69:
• Found in 1 of 447 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 407

• Called 100.0% of time when present
• Phage (with cluster) where this start called: NovoPizza_29 (Q),

Start 70:
• Found in 10 of 447 (2.2%) of genes in pham
• Manual Annotations of this start: 10 of 407
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Benczkowski14_31 (CS4), Hollow_32 (CS4), Katyusha_31 (CS4), Kvothe_31 (CS4), Niagara_31 (CS4), Philon9_33 (CS4), Teatealatte_31 (CS4), Teech_31 (CS4), Tredge_31 (CS4), Vitaenoii_33 (CS4),

Start 71:
• Found in 182 of 447 (40.7%) of genes in pham
• Manual Annotations of this start: 3 of 407
• Called 2.2% of time when present
• Phage (with cluster) where this start called: DoubleChamp_31 (K5), Edugator_31 (K5), Leston_31 (K5), Psycho_32 (K5),

Start 72:
• Found in 27 of 447 (6.0%) of genes in pham
• Manual Annotations of this start: 23 of 407
• Called 96.3% of time when present
• Phage (with cluster) where this start called: Bobquesha_34 (K4), Boilgate_29 (K8), Chancellor_33 (K4), Cheetobro_33 (K4), DanSyl44_36 (K4), Eponine_35 (K4), Fionnbharth_33 (K4), JF1_33 (K4), Juliette_35 (K4), Kraw_33 (K4), Lebo14_33 (K4), Malthus_34 (K4), MissDaisy_33 (K4), Mitti_33 (K4), OmniCritical_33 (K4), Patt_33 (K4), Qhanda_34 (K4), Reptar3000_33 (K4), Ruthiejr_34 (K4), SamScheppers_33 (K4), Slarp_33 (K4), Taquito_33 (K4), Wintermute_33 (K4), Y10_33 (K4), Y2_33 (K4), YasnayaPolyana_33 (K4),

Start 75:
• Found in 112 of 447 (25.1%) of genes in pham
• No Manual Annotations of this start.
• Called 0.9% of time when present
• Phage (with cluster) where this start called: Chavito_32 (K1),

Start 76:
• Found in 3 of 447 (0.7%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gmala1_27 (DF1), GordDuk1_27 (DF1), GordTnk2_27 (DF1),

Start 78:
• Found in 135 of 447 (30.2%) of genes in pham
• Manual Annotations of this start: 4 of 407
• Called 3.0% of time when present
• Phage (with cluster) where this start called: Cracklewink_36 (Y), Cuke_27 (AC), Fowlmouth_30 (AC), MrMiyagi_30 (AC),

Start 80:
• Found in 12 of 447 (2.7%) of genes in pham
• Manual Annotations of this start: 1 of 407

• Called 8.3% of time when present
• Phage (with cluster) where this start called: Kiko_24 (DB),

Start 81:
• Found in 5 of 447 (1.1%) of genes in pham
• Manual Annotations of this start: 4 of 407
• Called 100.0% of time when present
• Phage (with cluster) where this start called: IdentityCrisis_27 (AJ), Phrappuccino_197 (AA), Sbash_27 (I2), Settecandela_222 (AA), Stuck_31 (I2),

Start 82:
• Found in 1 of 447 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 407
• Called 100.0% of time when present
• Phage (with cluster) where this start called: OneUp_45 (CQ2),

Start 84:
• Found in 52 of 447 (11.6%) of genes in pham
• Manual Annotations of this start: 30 of 407
• Called 57.7% of time when present
• Phage (with cluster) where this start called: Apricot_23 (DN3), Bantam_33 (DL), BearBQ_23 (DN), Birdsong_23 (DN), BotCity_24 (DN), Budski_24 (DN), CheeseTouch_24 (DN1), Crater_22 (DN3), Daredevil_32 (DL), DatBoi_34 (DL), Farewell_28 (AF), Gibbles_29 (CX), Holliday_24 (DN1), Horus_24 (DN1), Kampe_30 (CX), Kenna_23 (DN1), Leroy_24 (DN1), LitninMcQueen_23 (DN1), LonelyBoi_23 (CY7), Lutum_24 (DN1), Malisha_25 (DN), Mollymur_34 (DL), MortyNRick_23 (DN), Orchid_30 (CX), PatrickStar_30 (CX), Phabuloso_23 (DN1), RobinSparkles_33 (CX), Sparky_28 (AF), SpeedDemon_350 (DL), Towmatter_31 (DL),

Start 87:
• Found in 48 of 447 (10.7%) of genes in pham
• Manual Annotations of this start: 25 of 407
• Called 62.5% of time when present
• Phage (with cluster) where this start called: Asapag_24 (DN1), BENtherdunthat_24 (DN1), BatStarr_22 (CZ1), Bialota_22 (CZ1), Bosnia_22 (CZ1), Eviarto_22 (CZ1), Frickyeah_23 (DN1), Getalong_25 (DN1), Herod_22 (CZ1), Hugley_22 (CZ1), Kamaru_24 (DN1), Kuwabara_23 (DN4), Madavieve_22 (CZ1), Madeline_22 (CZ1), Malibo_24 (DW), Nymphadora_22 (CZ1), Ohgeesy_22 (CZ), Periwinkle_26 (DN1), Phistory_25 (DN1), Polly_21 (CZ1), ShawBrad_24 (DN1), Sidious_22 (CZ7), Spooky_24 (DN2), Squiddly_26 (DN2), SushiChef_24 (CZ), ThankyouJordi_21 (CZ1), TimTam_22 (CZ1), WelcomeAyanna_21 (CZ1), Whitney_25 (DN1), Zirinka_22 (CZ1),

Start 88:
• Found in 30 of 447 (6.7%) of genes in pham
• Manual Annotations of this start: 27 of 407
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Abscondus_50 (CQ1), Aphelion_51 (CQ1), Bachita_53 (CQ1), BoostSeason_31 (K2), BrutonGaster_40 (CQ2), ClubL_51 (CQ1), Cucurbita_53 (CQ1), Culver_51 (CQ1), DismalFunk_30 (K2), DismalStressor_30 (K2), Doughnut_31 (K2), Dusty_50 (CQ1), Engineer_53 (CQ1), Findley_30 (K2), GMA2_39 (DS), Geeche_50 (CQ1), Lozinak_52 (CQ1), Marcoliusprime_30 (K2), Mbo2_27 (singleton), Milly_30 (K2), Miskis_49 (CQ1), Mufasa_31 (K2), Norvs_52 (CQ1), PhinkBoden_51 (CQ1), Smoothie_53 (CQ1),

Strobilo_30 (K2), TM4_31 (K2), Toniann_51 (CQ1), WilliamBoone_51 (CQ1), ZoeJ_30 (K2),

Start 89:
• Found in 18 of 447 (4.0%) of genes in pham
• Manual Annotations of this start: 4 of 407
• Called 33.3% of time when present
• Phage (with cluster) where this start called: AuntGwenStacy_33 (Y), Bipper_36 (Y), Faiyaz_33 (Y), Hilltopfarm_33 (Y), TPA4_33 (singleton), Typha_33 (Y),

Start 92:
• Found in 2 of 447 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 407
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Colossa_29 (KA), VanLee_29 (KA),

Summary by clusters:

There are 43 clusters represented in this pham: DN, DO, singleton, CZ1, DB, CZ7, K3, K2, K1, K6, K5, K4, DW, K8, DS, DL, DF4, I2, DF1, DF3, DF2, DN4, DN1, DN3, DN2, CS4, CQ1, CS1, CS3, CS2, AA, AC, CY7, AG, AF, AJ, Q, CZ, CX, CQ2, Y, KA, H1,

Info for manual annotations of cluster AA:
•Start number 81 was manually annotated 2 times for cluster AA.

Info for manual annotations of cluster AC:
•Start number 78 was manually annotated 3 times for cluster AC.

Info for manual annotations of cluster AF:
•Start number 84 was manually annotated 2 times for cluster AF.

Info for manual annotations of cluster AG:
•Start number 51 was manually annotated 1 time for cluster AG.
•Start number 58 was manually annotated 1 time for cluster AG.

Info for manual annotations of cluster AJ:
•Start number 81 was manually annotated 1 time for cluster AJ.

Info for manual annotations of cluster CQ1:
•Start number 88 was manually annotated 15 times for cluster CQ1.

Info for manual annotations of cluster CQ2:
•Start number 82 was manually annotated 1 time for cluster CQ2.
•Start number 88 was manually annotated 1 time for cluster CQ2.

Info for manual annotations of cluster CS1:
•Start number 66 was manually annotated 3 times for cluster CS1.

Info for manual annotations of cluster CS2:
•Start number 41 was manually annotated 20 times for cluster CS2.
•Start number 66 was manually annotated 16 times for cluster CS2.

Info for manual annotations of cluster CS3:
•Start number 66 was manually annotated 25 times for cluster CS3.

Info for manual annotations of cluster CS4:
•Start number 50 was manually annotated 2 times for cluster CS4.
•Start number 70 was manually annotated 10 times for cluster CS4.

Info for manual annotations of cluster CX:
•Start number 84 was manually annotated 5 times for cluster CX.

Info for manual annotations of cluster CY7:
•Start number 84 was manually annotated 1 time for cluster CY7.

Info for manual annotations of cluster CZ:
•Start number 87 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ1:
•Start number 87 was manually annotated 12 times for cluster CZ1.

Info for manual annotations of cluster CZ7:
•Start number 87 was manually annotated 1 time for cluster CZ7.

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

Info for manual annotations of cluster DF3:
•Start number 50 was manually annotated 1 time for cluster DF3.

Info for manual annotations of cluster DF4:
•Start number 66 was manually annotated 1 time for cluster DF4.

Info for manual annotations of cluster DL:
•Start number 84 was manually annotated 6 times for cluster DL.

Info for manual annotations of cluster DN:
•Start number 84 was manually annotated 6 times for cluster DN.

Info for manual annotations of cluster DN1:
•Start number 84 was manually annotated 8 times for cluster DN1.
•Start number 87 was manually annotated 7 times for cluster DN1.

Info for manual annotations of cluster DN2:
•Start number 87 was manually annotated 2 times for cluster DN2.

Info for manual annotations of cluster DN3:
•Start number 84 was manually annotated 2 times for cluster DN3.

Info for manual annotations of cluster DN4:
•Start number 87 was manually annotated 1 time for cluster DN4.

Info for manual annotations of cluster DO:

•Start number 63 was manually annotated 4 times for cluster DO.

Info for manual annotations of cluster DW:
•Start number 87 was manually annotated 1 time for cluster DW.

Info for manual annotations of cluster H1:
•Start number 60 was manually annotated 10 times for cluster H1.
•Start number 67 was manually annotated 1 time for cluster H1.

Info for manual annotations of cluster I2:
•Start number 81 was manually annotated 1 time for cluster I2.

Info for manual annotations of cluster K1:
•Start number 53 was manually annotated 1 time for cluster K1.
•Start number 54 was manually annotated 108 times for cluster K1.

Info for manual annotations of cluster K2:
•Start number 88 was manually annotated 11 times for cluster K2.

Info for manual annotations of cluster K3:
•Start number 54 was manually annotated 9 times for cluster K3.

Info for manual annotations of cluster K4:
•Start number 72 was manually annotated 22 times for cluster K4.

Info for manual annotations of cluster K5:
•Start number 44 was manually annotated 16 times for cluster K5.
•Start number 46 was manually annotated 6 times for cluster K5.
•Start number 71 was manually annotated 3 times for cluster K5.

Info for manual annotations of cluster K6:
•Start number 52 was manually annotated 1 time for cluster K6.
•Start number 53 was manually annotated 11 times for cluster K6.
•Start number 54 was manually annotated 14 times for cluster K6.

Info for manual annotations of cluster K8:
•Start number 72 was manually annotated 1 time for cluster K8.

Info for manual annotations of cluster KA:
•Start number 92 was manually annotated 1 time for cluster KA.

Info for manual annotations of cluster Q:
•Start number 60 was manually annotated 22 times for cluster Q.
•Start number 69 was manually annotated 1 time for cluster Q.

Info for manual annotations of cluster Y:
•Start number 78 was manually annotated 1 time for cluster Y.
•Start number 89 was manually annotated 4 times for cluster Y.

Gene Information:

Gene: ASerpRocky_31 Start: 39045, Stop: 39497, Start Num: 50
Candidate Starts for ASerpRocky_31:
(Start: 50 @39045 has 3 MA's), (93, 39105), (96, 39132), (100, 39147), (115, 39201), (123, 39231), (131, 39255), (140, 39297), (143, 39315), (146, 39324), (157, 39369), (177, 39444),

Gene: Abscondus_50 Start: 32639, Stop: 33046, Start Num: 88
Candidate Starts for Abscondus_50:
(Start: 88 @32639 has 27 MA's), (102, 32702), (104, 32705), (132, 32807), (155, 32918), (166, 32960), (191, 33035),

Gene: ActinUp_32 Start: 27346, Stop: 27786, Start Num: 54
Candidate Starts for ActinUp_32:
(20, 27109), (34, 27283), (Start: 54 @27346 has 131 MA's), (Start: 71 @27376 has 3 MA's), (75, 27382), (Start: 78 @27388 has 4 MA's), (83, 27400), (94, 27448), (98, 27466), (109, 27493), (121, 27547), (136, 27607), (137, 27610), (141, 27631), (155, 27688), (164, 27721), (187, 27778),

Gene: Adephagia_32 Start: 27343, Stop: 27783, Start Num: 54
Candidate Starts for Adephagia_32:
(20, 27106), (34, 27280), (Start: 54 @27343 has 131 MA's), (Start: 71 @27373 has 3 MA's), (75, 27379), (Start: 78 @27385 has 4 MA's), (83, 27397), (94, 27445), (98, 27463), (109, 27490), (121, 27544), (136, 27604), (137, 27607), (141, 27628), (155, 27685), (164, 27718), (187, 27775),

Gene: Adgers_33 Start: 37508, Stop: 38029, Start Num: 41
Candidate Starts for Adgers_33:
(Start: 41 @37508 has 20 MA's), (Start: 66 @37562 has 45 MA's), (73, 37574), (83, 37595), (99, 37664), (106, 37679), (127, 37763), (139, 37814), (141, 37826), (155, 37886), (170, 37943), (181, 37976), (184, 37991),

Gene: Adonis_32 Start: 27349, Stop: 27798, Start Num: 54
Candidate Starts for Adonis_32:
(20, 27112), (28, 27223), (34, 27286), (Start: 54 @27349 has 131 MA's), (Start: 71 @27379 has 3 MA's), (75, 27385), (Start: 78 @27391 has 4 MA's), (83, 27403), (94, 27451), (98, 27469), (109, 27496), (121, 27550), (124, 27559), (137, 27613), (155, 27691),

Gene: Agent47_31 Start: 27988, Stop: 28437, Start Num: 46
Candidate Starts for Agent47_31:
(3, 27472), (5, 27586), (Start: 44 @27985 has 16 MA's), (Start: 46 @27988 has 6 MA's), (Start: 71 @28030 has 3 MA's), (Start: 78 @28042 has 4 MA's), (83, 28054), (94, 28102), (97, 28114), (98, 28120), (106, 28138), (109, 28147), (121, 28201), (124, 28210), (128, 28225), (137, 28264), (139, 28273), (141, 28285), (152, 28330), (154, 28339), (155, 28342), (161, 28363), (164, 28375),

Gene: Ageofdapage_32 Start: 27286, Stop: 27726, Start Num: 54
Candidate Starts for Ageofdapage_32:
(20, 27049), (Start: 54 @27286 has 131 MA's), (Start: 71 @27316 has 3 MA's), (75, 27322), (Start: 78 @27328 has 4 MA's), (83, 27340), (94, 27388), (98, 27406), (109, 27433), (117, 27472), (121, 27487), (124, 27496), (137, 27550), (155, 27628), (164, 27661), (187, 27718),

Gene: AlishaPH_32 Start: 27336, Stop: 27776, Start Num: 54
Candidate Starts for AlishaPH_32:
(34, 27273), (Start: 54 @27336 has 131 MA's), (Start: 71 @27366 has 3 MA's), (75, 27372), (Start: 78 @27378 has 4 MA's), (83, 27390), (94, 27438), (98, 27456), (109, 27483), (121, 27537), (124, 27546), (137, 27600), (141, 27621), (155, 27678), (164, 27711), (187, 27768),

Gene: AlleyCat_32 Start: 27916, Stop: 28368, Start Num: 44
Candidate Starts for AlleyCat_32:
(Start: 44 @27916 has 16 MA's), (Start: 46 @27919 has 6 MA's), (Start: 71 @27961 has 3 MA's), (Start: 78 @27973 has 4 MA's), (83, 27985), (94, 28033), (97, 28045), (98, 28051), (106, 28069), (109, 28078), (124, 28141), (128, 28156), (137, 28195), (139, 28204), (141, 28216), (154, 28270), (155, 28273), (161, 28294), (164, 28306),

Gene: Amelie_28 Start: 26747, Stop: 27205, Start Num: 54
Candidate Starts for Amelie_28:
(24, 26528), (Start: 54 @26747 has 131 MA's), (Start: 71 @26777 has 3 MA's), (75, 26783), (83, 26801), (97, 26861), (106, 26885), (109, 26894), (110, 26897), (113, 26909), (121, 26948), (124, 26957), (125, 26960), (137, 27011), (141, 27032), (146, 27047), (155, 27089), (159, 27101),

Gene: Amgine_30 Start: 27287, Stop: 27751, Start Num: 53
Candidate Starts for Amgine_30:
(29, 27164), (Start: 53 @27287 has 12 MA's), (Start: 71 @27317 has 3 MA's), (73, 27320), (79, 27332), (85, 27347), (95, 27395), (97, 27401), (98, 27407), (109, 27434), (121, 27488), (137, 27551), (155, 27629),

Gene: Amochick_34 Start: 29602, Stop: 30012, Start Num: 60
Candidate Starts for Amochick_34:
(Start: 60 @29602 has 32 MA's), (97, 29704), (115, 29770), (119, 29782), (122, 29794), (128, 29815), (149, 29902), (172, 29995),

Gene: Amohnition_31 Start: 27721, Stop: 28185, Start Num: 53
Candidate Starts for Amohnition_31:
(Start: 44 @27706 has 16 MA's), (Start: 53 @27721 has 12 MA's), (Start: 71 @27751 has 3 MA's), (73, 27754), (83, 27775), (98, 27841), (109, 27868), (121, 27922), (137, 27985), (155, 28063), (159, 28075),

Gene: Amore2_36 Start: 38215, Stop: 38634, Start Num: 66
Candidate Starts for Amore2_36:
(Start: 66 @38215 has 45 MA's), (96, 38287), (102, 38308), (108, 38320), (110, 38326), (135, 38428), (141, 38461), (142, 38467), (152, 38509), (165, 38563), (170, 38578),

Gene: Amymech_34 Start: 29596, Stop: 30006, Start Num: 60
Candidate Starts for Amymech_34:
(Start: 60 @29596 has 32 MA's), (97, 29698), (115, 29764), (119, 29776), (122, 29788), (128, 29809), (149, 29896), (172, 29989),

Gene: Anamika_33 Start: 39971, Stop: 40408, Start Num: 66
Candidate Starts for Anamika_33:
(Start: 41 @39917 has 20 MA's), (Start: 66 @39971 has 45 MA's), (73, 39983), (83, 40004), (97, 40064), (104, 40085), (140, 40226), (155, 40295),

Gene: Anaya_33 Start: 27362, Stop: 27811, Start Num: 54
Candidate Starts for Anaya_33:
(34, 27299), (Start: 54 @27362 has 131 MA's), (Start: 71 @27392 has 3 MA's), (75, 27398), (Start: 78 @27404 has 4 MA's), (83, 27416), (94, 27464), (98, 27482), (109, 27509), (121, 27563), (124, 27572), (137, 27626), (141, 27647), (155, 27704), (187, 27803),

Gene: Angelica_32 Start: 27293, Stop: 27733, Start Num: 54
Candidate Starts for Angelica_32:

(34, 27230), (Start: 54 @27293 has 131 MA's), (Start: 71 @27323 has 3 MA's), (75, 27329), (Start: 78 @27335 has 4 MA's), (83, 27347), (94, 27395), (98, 27413), (109, 27440), (121, 27494), (124, 27503), (137, 27557), (141, 27578), (155, 27635), (164, 27668), (187, 27725),

Gene: Anma_32 Start: 27266, Stop: 27706, Start Num: 54
Candidate Starts for Anma_32:
(Start: 44 @27251 has 16 MA's), (Start: 54 @27266 has 131 MA's), (Start: 71 @27296 has 3 MA's), (75, 27302), (Start: 78 @27308 has 4 MA's), (83, 27320), (94, 27368), (98, 27386), (109, 27413), (121, 27467), (124, 27476), (137, 27530), (155, 27608), (164, 27641), (187, 27698), (188, 27701),

Gene: Aphelion_51 Start: 32908, Stop: 33315, Start Num: 88
Candidate Starts for Aphelion_51:
(Start: 88 @32908 has 27 MA's), (102, 32971), (104, 32974), (132, 33076), (155, 33187), (166, 33229), (191, 33304),

Gene: Apocalypse_32 Start: 27314, Stop: 27754, Start Num: 54
Candidate Starts for Apocalypse_32:
(18, 27062), (20, 27077), (34, 27251), (Start: 54 @27314 has 131 MA's), (Start: 71 @27344 has 3 MA's), (75, 27350), (Start: 78 @27356 has 4 MA's), (83, 27368), (94, 27416), (98, 27434), (109, 27461), (121, 27515), (124, 27524), (137, 27578), (141, 27599), (155, 27656), (164, 27689), (187, 27746),

Gene: Applecrisp_30 Start: 27709, Stop: 28173, Start Num: 53
Candidate Starts for Applecrisp_30:
(29, 27586), (Start: 53 @27709 has 12 MA's), (Start: 71 @27739 has 3 MA's), (73, 27742), (79, 27754), (85, 27769), (97, 27823), (98, 27829), (109, 27856), (121, 27910), (137, 27973), (155, 28051),

Gene: Apricot_23 Start: 19749, Stop: 20129, Start Num: 84
Candidate Starts for Apricot_23:
(Start: 84 @19749 has 30 MA's), (Start: 87 @19755 has 25 MA's), (99, 19812), (100, 19815), (124, 19899), (130, 19920), (139, 19962), (140, 19965), (164, 20064),

Gene: Asapag_24 Start: 20197, Stop: 20571, Start Num: 87
Candidate Starts for Asapag_24:
(Start: 84 @20191 has 30 MA's), (Start: 87 @20197 has 25 MA's), (99, 20254), (100, 20257), (104, 20266), (116, 20314), (130, 20362), (139, 20404), (140, 20407), (164, 20506),

Gene: Asayake_32 Start: 27377, Stop: 27817, Start Num: 54
Candidate Starts for Asayake_32:
(34, 27314), (Start: 54 @27377 has 131 MA's), (Start: 71 @27407 has 3 MA's), (75, 27413), (Start: 78 @27419 has 4 MA's), (83, 27431), (94, 27479), (98, 27497), (109, 27524), (121, 27578), (124, 27587), (136, 27638), (137, 27641), (141, 27662), (155, 27719), (164, 27752), (187, 27809),

Gene: Atiba_32 Start: 27306, Stop: 27746, Start Num: 54
Candidate Starts for Atiba_32:
(20, 27069), (34, 27243), (Start: 54 @27306 has 131 MA's), (Start: 71 @27336 has 3 MA's), (75, 27342), (Start: 78 @27348 has 4 MA's), (83, 27360), (94, 27408), (98, 27426), (109, 27453), (121, 27507), (136, 27567), (137, 27570), (141, 27591), (155, 27648), (164, 27681), (187, 27738),

Gene: AuntGwenStacy_33 Start: 30335, Stop: 30691, Start Num: 89
Candidate Starts for AuntGwenStacy_33:
(33, 30185), (Start: 89 @30335 has 4 MA's), (94, 30368), (110, 30416), (113, 30428), (117, 30452), (121, 30467), (127, 30488), (135, 30518), (139, 30539), (140, 30542), (155, 30608), (158, 30617),

(161, 30629),

Gene: Austin_36 Start: 38215, Stop: 38634, Start Num: 66
Candidate Starts for Austin_36:
(Start: 66 @38215 has 45 MA's), (96, 38287), (102, 38308), (108, 38320), (110, 38326), (135, 38428), (141, 38461), (142, 38467), (152, 38509), (165, 38563), (170, 38578), (184, 38626),

Gene: BEEST_32 Start: 27377, Stop: 27817, Start Num: 54
Candidate Starts for BEEST_32:
(34, 27314), (Start: 54 @27377 has 131 MA's), (Start: 71 @27407 has 3 MA's), (75, 27413), (Start: 78 @27419 has 4 MA's), (83, 27431), (94, 27479), (98, 27497), (109, 27524), (121, 27578), (124, 27587), (136, 27638), (137, 27641), (141, 27662), (155, 27719), (164, 27752), (187, 27809),

Gene: BENtherdunthat_24 Start: 20197, Stop: 20568, Start Num: 87
Candidate Starts for BENtherdunthat_24:
(Start: 84 @20191 has 30 MA's), (Start: 87 @20197 has 25 MA's), (99, 20254), (100, 20257), (124, 20341), (130, 20362), (139, 20404), (140, 20407), (141, 20416), (156, 20476), (157, 20479),

Gene: BGlluviae_32 Start: 27377, Stop: 27817, Start Num: 54
Candidate Starts for BGlluviae_32:
(34, 27314), (Start: 54 @27377 has 131 MA's), (Start: 71 @27407 has 3 MA's), (Start: 78 @27419 has 4 MA's), (83, 27431), (94, 27479), (98, 27497), (109, 27524), (121, 27578), (124, 27587), (137, 27641), (141, 27662), (155, 27719), (164, 27752), (187, 27809),

Gene: Bachita_53 Start: 33341, Stop: 33748, Start Num: 88
Candidate Starts for Bachita_53:
(Start: 88 @33341 has 27 MA's), (102, 33404), (104, 33407), (132, 33509), (155, 33620), (166, 33662), (191, 33737),

Gene: BaghaKamala_32 Start: 27306, Stop: 27746, Start Num: 54
Candidate Starts for BaghaKamala_32:
(34, 27243), (Start: 54 @27306 has 131 MA's), (Start: 71 @27336 has 3 MA's), (75, 27342), (Start: 78 @27348 has 4 MA's), (83, 27360), (94, 27408), (98, 27426), (109, 27453), (121, 27507), (124, 27516), (136, 27567), (137, 27570), (141, 27591), (155, 27648), (164, 27681), (187, 27738),

Gene: BananenDer11_31 Start: 27949, Stop: 28398, Start Num: 46
Candidate Starts for BananenDer11_31:
(3, 27433), (5, 27547), (Start: 44 @27946 has 16 MA's), (Start: 46 @27949 has 6 MA's), (Start: 71 @27991 has 3 MA's), (Start: 78 @28003 has 4 MA's), (83, 28015), (94, 28063), (97, 28075), (98, 28081), (106, 28099), (109, 28108), (121, 28162), (124, 28171), (128, 28186), (137, 28225), (139, 28234), (141, 28246), (152, 28291), (154, 28300), (155, 28303), (161, 28324), (164, 28336),

Gene: Bantam_33 Start: 30576, Stop: 30989, Start Num: 84
Candidate Starts for Bantam_33:
(Start: 84 @30576 has 30 MA's), (109, 30666), (114, 30684), (159, 30879),

Gene: Barbochs_32 Start: 37346, Stop: 37867, Start Num: 41
Candidate Starts for Barbochs_32:
(Start: 41 @37346 has 20 MA's), (Start: 66 @37400 has 45 MA's), (73, 37412), (83, 37433), (97, 37493), (106, 37517), (127, 37601), (139, 37652), (141, 37664), (155, 37724), (170, 37781), (181, 37814), (184, 37829),

Gene: BarrelRoll_32 Start: 27329, Stop: 27769, Start Num: 54

Candidate Starts for BarrelRoll_32:
(19, 27080), (20, 27092), (34, 27266), (Start: 54 @27329 has 131 MA's), (Start: 71 @27359 has 3 MA's), (75, 27365), (Start: 78 @27371 has 4 MA's), (83, 27383), (94, 27431), (98, 27449), (109, 27476), (121, 27530), (136, 27590), (137, 27593), (141, 27614), (155, 27671), (164, 27704), (187, 27761),

Gene: BatStarr_22 Start: 21074, Stop: 21430, Start Num: 87
Candidate Starts for BatStarr_22:
(Start: 87 @21074 has 25 MA's), (100, 21134), (104, 21143), (124, 21218), (139, 21281), (141, 21293), (156, 21353),

Gene: BearBQ_23 Start: 21031, Stop: 21408, Start Num: 84
Candidate Starts for BearBQ_23:
(Start: 84 @21031 has 30 MA's), (Start: 87 @21037 has 25 MA's), (99, 21094), (100, 21097), (124, 21181), (130, 21202), (139, 21244), (140, 21247), (141, 21256), (156, 21316), (157, 21319),

Gene: Beaver_36 Start: 39448, Stop: 39915, Start Num: 66
Candidate Starts for Beaver_36:
(Start: 41 @39394 has 20 MA's), (Start: 66 @39448 has 45 MA's), (73, 39460), (83, 39481), (106, 39565), (127, 39649), (139, 39700), (141, 39712), (155, 39772), (170, 39829), (181, 39862), (184, 39877),

Gene: Beckerton_35 Start: 32917, Stop: 33378, Start Num: 60
Candidate Starts for Beckerton_35:
(Start: 60 @32917 has 32 MA's), (Start: 67 @32929 has 1 MA's), (Start: 80 @32953 has 1 MA's), (90, 32980), (101, 33037), (102, 33040), (106, 33046), (108, 33052), (111, 33061), (113, 33070), (115, 33088), (128, 33133), (129, 33136), (136, 33172), (145, 33208), (150, 33226), (162, 33277), (171, 33313),

Gene: Beezoo_32 Start: 27354, Stop: 27794, Start Num: 54
Candidate Starts for Beezoo_32:
(20, 27117), (34, 27291), (Start: 54 @27354 has 131 MA's), (Start: 71 @27384 has 3 MA's), (75, 27390), (Start: 78 @27396 has 4 MA's), (83, 27408), (94, 27456), (98, 27474), (109, 27501), (121, 27555), (124, 27564), (137, 27618), (141, 27639), (155, 27696), (164, 27729), (187, 27786),

Gene: Bella96_32 Start: 27247, Stop: 27687, Start Num: 54
Candidate Starts for Bella96_32:
(8, 26920), (17, 26986), (34, 27184), (Start: 54 @27247 has 131 MA's), (Start: 71 @27277 has 3 MA's), (75, 27283), (Start: 78 @27289 has 4 MA's), (83, 27301), (94, 27349), (98, 27367), (109, 27394), (121, 27448), (124, 27457), (137, 27511), (155, 27589), (164, 27622), (187, 27679),

Gene: Belladonna_32 Start: 27377, Stop: 27817, Start Num: 54
Candidate Starts for Belladonna_32:
(34, 27314), (Start: 54 @27377 has 131 MA's), (Start: 71 @27407 has 3 MA's), (75, 27413), (Start: 78 @27419 has 4 MA's), (83, 27431), (94, 27479), (98, 27497), (109, 27524), (121, 27578), (124, 27587), (137, 27641), (141, 27662), (155, 27719), (164, 27752), (187, 27809),

Gene: Benczkowski14_31 Start: 39098, Stop: 39532, Start Num: 70
Candidate Starts for Benczkowski14_31:
(Start: 70 @39098 has 10 MA's), (83, 39119), (91, 39137), (96, 39170), (136, 39320), (140, 39335), (153, 39395), (155, 39401), (157, 39407), (177, 39482),

Gene: BenoitCattle_32 Start: 37503, Stop: 37970, Start Num: 66

Candidate Starts for BenoitCattle_32:
(Start: 41 @37449 has 20 MA's), (Start: 66 @37503 has 45 MA's), (73, 37515), (83, 37536), (106, 37620), (108, 37626), (127, 37704), (139, 37755), (155, 37827), (170, 37884), (177, 37908), (181, 37917), (186, 37935),

Gene: Bern_32 Start: 27286, Stop: 27726, Start Num: 54
Candidate Starts for Bern_32:
(20, 27049), (34, 27223), (Start: 54 @27286 has 131 MA's), (Start: 71 @27316 has 3 MA's), (75, 27322), (Start: 78 @27328 has 4 MA's), (83, 27340), (94, 27388), (98, 27406), (109, 27433), (121, 27487), (124, 27496), (137, 27550), (155, 27628),

Gene: Berries_33 Start: 39941, Stop: 40378, Start Num: 66
Candidate Starts for Berries_33:
(Start: 41 @39887 has 20 MA's), (Start: 66 @39941 has 45 MA's), (73, 39953), (83, 39974), (97, 40034), (104, 40055), (140, 40196), (155, 40265),

Gene: Bialota_22 Start: 21086, Stop: 21442, Start Num: 87
Candidate Starts for Bialota_22:
(Start: 87 @21086 has 25 MA's), (100, 21146), (104, 21155), (124, 21230), (139, 21293), (141, 21305), (156, 21365),

Gene: Bianmat_33 Start: 39981, Stop: 40418, Start Num: 66
Candidate Starts for Bianmat_33:
(Start: 41 @39927 has 20 MA's), (Start: 66 @39981 has 45 MA's), (73, 39993), (83, 40014), (97, 40074), (104, 40095), (140, 40236), (155, 40305),

Gene: BigShaq_32 Start: 37454, Stop: 37975, Start Num: 41
Candidate Starts for BigShaq_32:
(Start: 41 @37454 has 20 MA's), (Start: 66 @37508 has 45 MA's), (73, 37520), (83, 37541), (86, 37550), (106, 37625), (108, 37631), (127, 37709), (139, 37760), (155, 37832), (170, 37889), (177, 37913), (181, 37922), (186, 37940),

Gene: Biglebops_28 Start: 26747, Stop: 27205, Start Num: 54
Candidate Starts for Biglebops_28:
(24, 26528), (Start: 54 @26747 has 131 MA's), (Start: 71 @26777 has 3 MA's), (75, 26783), (83, 26801), (97, 26861), (106, 26885), (109, 26894), (110, 26897), (113, 26909), (121, 26948), (124, 26957), (125, 26960), (137, 27011), (141, 27032), (146, 27047), (155, 27089), (159, 27101),

Gene: BillyBobJr_37 Start: 39479, Stop: 39946, Start Num: 66
Candidate Starts for BillyBobJr_37:
(Start: 41 @39425 has 20 MA's), (Start: 66 @39479 has 45 MA's), (73, 39491), (83, 39512), (97, 39572), (106, 39596), (139, 39731), (141, 39743), (155, 39803), (170, 39860), (181, 39893), (184, 39908),

Gene: Bipper_36 Start: 31123, Stop: 31452, Start Num: 89
Candidate Starts for Bipper_36:
(45, 31051), (57, 31069), (Start: 78 @31099 has 4 MA's), (Start: 89 @31123 has 4 MA's), (97, 31168), (108, 31198), (113, 31216), (118, 31243), (121, 31255), (122, 31258), (124, 31264), (127, 31276), (140, 31330), (148, 31360), (157, 31402), (158, 31405), (161, 31417),

Gene: Birdsong_23 Start: 19924, Stop: 20301, Start Num: 84
Candidate Starts for Birdsong_23:

(Start: 84 @19924 has 30 MA's), (Start: 87 @19930 has 25 MA's), (99, 19987), (100, 19990), (124, 20074), (130, 20095), (139, 20137), (140, 20140), (141, 20149), (156, 20209), (157, 20212),

Gene: BirksAndSocks_36 Start: 39372, Stop: 39893, Start Num: 41
Candidate Starts for BirksAndSocks_36:
(Start: 41 @39372 has 20 MA's), (Start: 66 @39426 has 45 MA's), (73, 39438), (83, 39459), (97, 39519), (106, 39543), (127, 39627), (139, 39678), (141, 39690), (155, 39750), (170, 39807), (181, 39840), (184, 39855),

Gene: Blizzard_32 Start: 27377, Stop: 27817, Start Num: 54
Candidate Starts for Blizzard_32:
(34, 27314), (Start: 54 @27377 has 131 MA's), (Start: 71 @27407 has 3 MA's), (75, 27413), (Start: 78 @27419 has 4 MA's), (83, 27431), (94, 27479), (98, 27497), (109, 27524), (121, 27578), (124, 27587), (136, 27638), (137, 27641), (141, 27662), (155, 27719), (164, 27752), (187, 27809),

Gene: BloominB_34 Start: 29596, Stop: 30006, Start Num: 60
Candidate Starts for BloominB_34:
(Start: 60 @29596 has 32 MA's), (97, 29698), (115, 29764), (119, 29776), (122, 29788), (128, 29809), (149, 29896), (172, 29989),

Gene: Bobquesha_34 Start: 28211, Stop: 28609, Start Num: 72
Candidate Starts for Bobquesha_34:
(9, 27833), (11, 27842), (21, 27923), (31, 28091), (Start: 72 @28211 has 23 MA's), (83, 28232), (86, 28241), (110, 28328), (113, 28340), (124, 28388), (128, 28403), (130, 28409), (134, 28427), (139, 28451), (144, 28472), (152, 28508), (157, 28526), (158, 28529), (174, 28589),

Gene: BobtimousPrime_37 Start: 32837, Stop: 33298, Start Num: 60
Candidate Starts for BobtimousPrime_37:
(Start: 60 @32837 has 32 MA's), (Start: 67 @32849 has 1 MA's), (Start: 80 @32873 has 1 MA's), (90, 32900), (99, 32951), (101, 32957), (102, 32960), (106, 32966), (108, 32972), (111, 32981), (113, 32990), (115, 33008), (128, 33053), (129, 33056), (136, 33092), (145, 33128), (150, 33146), (162, 33197), (171, 33233), (185, 33278),

Gene: Boiiii_32 Start: 27379, Stop: 27819, Start Num: 54
Candidate Starts for Boiiii_32:
(34, 27316), (Start: 54 @27379 has 131 MA's), (Start: 71 @27409 has 3 MA's), (75, 27415), (Start: 78 @27421 has 4 MA's), (83, 27433), (94, 27481), (98, 27499), (109, 27526), (121, 27580), (124, 27589), (136, 27640), (137, 27643), (141, 27664), (155, 27721), (164, 27754), (187, 27811),

Gene: Boilgate_29 Start: 29197, Stop: 29595, Start Num: 72
Candidate Starts for Boilgate_29:
(40, 29137), (Start: 72 @29197 has 23 MA's), (86, 29227), (94, 29266), (109, 29311), (110, 29314), (130, 29395), (139, 29437), (144, 29458), (148, 29470), (150, 29479), (157, 29512), (164, 29539), (174, 29575),

Gene: Boneham_36 Start: 39371, Stop: 39892, Start Num: 41
Candidate Starts for Boneham_36:
(Start: 41 @39371 has 20 MA's), (Start: 66 @39425 has 45 MA's), (73, 39437), (83, 39458), (97, 39518), (106, 39542), (127, 39626), (139, 39677), (141, 39689), (155, 39749), (170, 39806), (181, 39839), (184, 39854),

Gene: BoostSeason_31 Start: 26116, Stop: 26502, Start Num: 88
Candidate Starts for BoostSeason_31:

(Start: 88 @26116 has 27 MA's), (Start: 89 @26119 has 4 MA's), (109, 26197), (112, 26206), (113, 26212), (116, 26233), (119, 26242), (120, 26248), (121, 26251), (124, 26260), (139, 26323), (144, 26344), (149, 26362), (150, 26365),

Gene: Bosnia_22 Start: 21074, Stop: 21430, Start Num: 87
Candidate Starts for Bosnia_22:
(Start: 87 @21074 has 25 MA's), (100, 21134), (104, 21143), (124, 21218), (139, 21281), (141, 21293), (156, 21353),

Gene: BotCity_24 Start: 20189, Stop: 20569, Start Num: 84
Candidate Starts for BotCity_24:
(Start: 84 @20189 has 30 MA's), (Start: 87 @20195 has 25 MA's), (99, 20252), (100, 20255), (104, 20264), (116, 20312), (130, 20360), (139, 20402), (140, 20405), (164, 20504),

Gene: Breezic_32 Start: 37360, Stop: 37881, Start Num: 41
Candidate Starts for Breezic_32:
(Start: 41 @37360 has 20 MA's), (Start: 66 @37414 has 45 MA's), (73, 37426), (83, 37447), (99, 37516), (106, 37531), (127, 37615), (139, 37666), (141, 37678), (155, 37738), (170, 37795), (181, 37828), (184, 37843),

Gene: BrutonGaster_40 Start: 30025, Stop: 30432, Start Num: 88
Candidate Starts for BrutonGaster_40:
(Start: 88 @30025 has 27 MA's), (127, 30178), (132, 30193), (134, 30205), (155, 30304), (166, 30346),

Gene: Bryler_32 Start: 26627, Stop: 27091, Start Num: 54
Candidate Starts for Bryler_32:
(Start: 54 @26627 has 131 MA's), (Start: 66 @26648 has 45 MA's), (Start: 71 @26657 has 3 MA's), (73, 26660), (85, 26687), (97, 26741), (98, 26747), (109, 26774), (121, 26828), (140, 26903), (155, 26969), (177, 27044),

Gene: Budski_24 Start: 20296, Stop: 20676, Start Num: 84
Candidate Starts for Budski_24:
(4, 19807), (13, 19918), (15, 19936), (Start: 84 @20296 has 30 MA's), (Start: 87 @20302 has 25 MA's), (99, 20359), (100, 20362), (104, 20371), (124, 20446), (139, 20509), (140, 20512), (141, 20521), (156, 20581), (157, 20584),

Gene: Butterball_36 Start: 39425, Stop: 39892, Start Num: 66
Candidate Starts for Butterball_36:
(Start: 41 @39371 has 20 MA's), (Start: 66 @39425 has 45 MA's), (73, 39437), (83, 39458), (97, 39518), (106, 39542), (127, 39626), (139, 39677), (141, 39689), (155, 39749), (170, 39806), (181, 39839), (184, 39854),

Gene: CREW_32 Start: 27377, Stop: 27817, Start Num: 54
Candidate Starts for CREW_32:
(34, 27314), (Start: 54 @27377 has 131 MA's), (Start: 71 @27407 has 3 MA's), (75, 27413), (Start: 78 @27419 has 4 MA's), (83, 27431), (94, 27479), (98, 27497), (109, 27524), (121, 27578), (124, 27587), (137, 27641), (141, 27662), (155, 27719), (164, 27752), (187, 27809),

Gene: Cain_32 Start: 26615, Stop: 27079, Start Num: 54
Candidate Starts for Cain_32:
(Start: 54 @26615 has 131 MA's), (Start: 66 @26636 has 45 MA's), (Start: 71 @26645 has 3 MA's), (73, 26648), (85, 26675), (97, 26729), (98, 26735), (109, 26762), (121, 26816), (140, 26891), (155, 26957), (177, 27032),

Gene: CallaLilly_32 Start: 27300, Stop: 27740, Start Num: 54
Candidate Starts for CallaLilly_32:
(34, 27237), (Start: 54 @27300 has 131 MA's), (Start: 71 @27330 has 3 MA's), (75, 27336), (Start: 78 @27342 has 4 MA's), (83, 27354), (94, 27402), (98, 27420), (109, 27447), (121, 27501), (124, 27510), (137, 27564), (141, 27585), (155, 27642), (164, 27675), (187, 27732),

Gene: Camerico_37 Start: 41920, Stop: 42348, Start Num: 66
Candidate Starts for Camerico_37:
(Start: 66 @41920 has 45 MA's), (96, 42013), (113, 42064), (119, 42094), (124, 42112), (125, 42115), (143, 42196), (155, 42244), (162, 42268), (165, 42286), (167, 42292), (170, 42301), (175, 42322),

Gene: Capricorn_32 Start: 27377, Stop: 27817, Start Num: 54
Candidate Starts for Capricorn_32:
(34, 27314), (Start: 54 @27377 has 131 MA's), (Start: 71 @27407 has 3 MA's), (75, 27413), (Start: 78 @27419 has 4 MA's), (83, 27431), (94, 27479), (98, 27497), (109, 27524), (121, 27578), (124, 27587), (137, 27641), (141, 27662), (155, 27719), (164, 27752), (187, 27809),

Gene: CaseJules_32 Start: 27377, Stop: 27817, Start Num: 54
Candidate Starts for CaseJules_32:
(34, 27314), (Start: 54 @27377 has 131 MA's), (Start: 71 @27407 has 3 MA's), (75, 27413), (Start: 78 @27419 has 4 MA's), (83, 27431), (94, 27479), (98, 27497), (109, 27524), (121, 27578), (124, 27587), (136, 27638), (137, 27641), (141, 27662), (155, 27719), (164, 27752), (187, 27809),

Gene: CathyBurgh_32 Start: 38214, Stop: 38735, Start Num: 41
Candidate Starts for CathyBurgh_32:
(Start: 41 @38214 has 20 MA's), (Start: 66 @38268 has 45 MA's), (73, 38280), (83, 38301), (106, 38385), (127, 38469), (139, 38520), (141, 38532), (155, 38592), (170, 38649), (181, 38682), (184, 38697),

Gene: Cborch11_36 Start: 32382, Stop: 32843, Start Num: 60
Candidate Starts for Cborch11_36:
(Start: 60 @32382 has 32 MA's), (Start: 67 @32394 has 1 MA's), (Start: 80 @32418 has 1 MA's), (90, 32445), (101, 32502), (106, 32511), (108, 32517), (111, 32526), (113, 32535), (115, 32553), (128, 32598), (129, 32601), (136, 32637), (145, 32673), (150, 32691), (162, 32742), (171, 32778),

Gene: Chancellor_33 Start: 28471, Stop: 28869, Start Num: 72
Candidate Starts for Chancellor_33:
(Start: 72 @28471 has 23 MA's), (83, 28492), (86, 28501), (110, 28588), (114, 28603), (128, 28663), (130, 28669), (134, 28687), (139, 28711), (144, 28732), (148, 28744), (150, 28753), (152, 28768), (158, 28789), (174, 28849),

Gene: Charianelly_33 Start: 39691, Stop: 40128, Start Num: 66
Candidate Starts for Charianelly_33:
(Start: 41 @39637 has 20 MA's), (Start: 66 @39691 has 45 MA's), (73, 39703), (83, 39724), (97, 39784), (104, 39805), (140, 39946), (155, 40015),

Gene: Chavito_32 Start: 26970, Stop: 27398, Start Num: 75
Candidate Starts for Chavito_32:
(Start: 54 @26934 has 131 MA's), (Start: 71 @26964 has 3 MA's), (75, 26970), (Start: 78 @26976 has 4 MA's), (83, 26988), (94, 27036), (97, 27048), (109, 27081), (110, 27084), (121, 27135), (137, 27198), (141, 27219), (155, 27276),

Gene: CheeseTouch_24 Start: 20185, Stop: 20562, Start Num: 84
Candidate Starts for CheeseTouch_24:
(Start: 84 @20185 has 30 MA's), (Start: 87 @20191 has 25 MA's), (99, 20248), (100, 20251), (104, 20260), (116, 20308), (124, 20335), (139, 20398), (140, 20401), (146, 20425), (156, 20470), (157, 20473),

Gene: CheetoDust_32 Start: 27354, Stop: 27794, Start Num: 54
Candidate Starts for CheetoDust_32:
(14, 27069), (20, 27117), (23, 27123), (34, 27291), (Start: 54 @27354 has 131 MA's), (Start: 71 @27384 has 3 MA's), (75, 27390), (Start: 78 @27396 has 4 MA's), (83, 27408), (94, 27456), (98, 27474), (109, 27501), (121, 27555), (124, 27564), (137, 27618), (141, 27639), (155, 27696), (164, 27729), (187, 27786),

Gene: Cheetobro_33 Start: 28468, Stop: 28866, Start Num: 72
Candidate Starts for Cheetobro_33:
(Start: 72 @28468 has 23 MA's), (83, 28489), (86, 28498), (110, 28585), (114, 28600), (128, 28660), (130, 28666), (134, 28684), (139, 28708), (144, 28729), (148, 28741), (150, 28750), (152, 28765), (158, 28786), (174, 28846),

Gene: Chelms_32 Start: 37457, Stop: 37978, Start Num: 41
Candidate Starts for Chelms_32:
(Start: 41 @37457 has 20 MA's), (Start: 66 @37511 has 45 MA's), (73, 37523), (83, 37544), (106, 37628), (108, 37634), (127, 37712), (139, 37763), (155, 37835), (170, 37892), (177, 37916), (181, 37925), (186, 37943),

Gene: CherryTomatoes_174 Start: 126292, Stop: 126711, Start Num: 63
Candidate Starts for CherryTomatoes_174:
(Start: 63 @126292 has 4 MA's), (102, 126406), (107, 126415), (139, 126547), (145, 126571), (157, 126622), (161, 126634), (164, 126646),

Gene: Chris_31 Start: 26496, Stop: 26951, Start Num: 53
Candidate Starts for Chris_31:
(Start: 53 @26496 has 12 MA's), (Start: 71 @26526 has 3 MA's), (73, 26529), (Start: 84 @26553 has 30 MA's), (98, 26616), (109, 26643), (121, 26697), (140, 26772), (152, 26826), (155, 26838), (160, 26856),

Gene: CinnamonToast_37 Start: 39479, Stop: 39946, Start Num: 66
Candidate Starts for CinnamonToast_37:
(Start: 41 @39425 has 20 MA's), (Start: 66 @39479 has 45 MA's), (73, 39491), (83, 39512), (97, 39572), (106, 39596), (139, 39731), (141, 39743), (155, 39803), (170, 39860), (181, 39893), (184, 39908),

Gene: Clipper_32 Start: 27354, Stop: 27794, Start Num: 54
Candidate Starts for Clipper_32:
(34, 27291), (Start: 54 @27354 has 131 MA's), (Start: 71 @27384 has 3 MA's), (75, 27390), (Start: 78 @27396 has 4 MA's), (83, 27408), (94, 27456), (98, 27474), (109, 27501), (121, 27555), (124, 27564), (137, 27618), (141, 27639), (155, 27696), (164, 27729), (187, 27786),

Gene: ClubL_51 Start: 32830, Stop: 33237, Start Num: 88
Candidate Starts for ClubL_51:
(Start: 88 @32830 has 27 MA's), (102, 32893), (104, 32896), (132, 32998), (155, 33109), (166, 33151), (191, 33226),

Gene: Collard_31 Start: 27949, Stop: 28398, Start Num: 46
Candidate Starts for Collard_31:
(3, 27433), (5, 27547), (Start: 44 @27946 has 16 MA's), (Start: 46 @27949 has 6 MA's), (Start: 71 @27991 has 3 MA's), (Start: 78 @28003 has 4 MA's), (83, 28015), (94, 28063), (97, 28075), (98, 28081), (106, 28099), (109, 28108), (121, 28162), (124, 28171), (128, 28186), (137, 28225), (139, 28234), (141, 28246), (152, 28291), (154, 28300), (155, 28303), (161, 28324), (164, 28336),

Gene: Colossa_29 Start: 25214, Stop: 25555, Start Num: 92
Candidate Starts for Colossa_29:
(Start: 92 @25214 has 1 MA's), (104, 25268), (139, 25421), (157, 25496),

Gene: Cracklewink_36 Start: 31099, Stop: 31452, Start Num: 78
Candidate Starts for Cracklewink_36:
(45, 31051), (57, 31069), (Start: 78 @31099 has 4 MA's), (Start: 89 @31123 has 4 MA's), (97, 31168), (108, 31198), (113, 31216), (118, 31243), (121, 31255), (122, 31258), (124, 31264), (127, 31276), (140, 31330), (148, 31360), (157, 31402), (158, 31405), (161, 31417),

Gene: Crater_22 Start: 19749, Stop: 20129, Start Num: 84
Candidate Starts for Crater_22:
(Start: 84 @19749 has 30 MA's), (Start: 87 @19755 has 25 MA's), (99, 19812), (100, 19815), (124, 19899), (130, 19920), (139, 19962), (140, 19965), (164, 20064),

Gene: Crete_33 Start: 37774, Stop: 38241, Start Num: 66
Candidate Starts for Crete_33:
(Start: 41 @37720 has 20 MA's), (Start: 66 @37774 has 45 MA's), (73, 37786), (83, 37807), (106, 37891), (108, 37897), (127, 37975), (139, 38026), (155, 38098), (170, 38155), (177, 38179), (181, 38188), (186, 38206),

Gene: CrimD_32 Start: 27314, Stop: 27754, Start Num: 54
Candidate Starts for CrimD_32:
(8, 26987), (20, 27077), (34, 27251), (Start: 54 @27314 has 131 MA's), (Start: 71 @27344 has 3 MA's), (75, 27350), (Start: 78 @27356 has 4 MA's), (83, 27368), (94, 27416), (98, 27434), (109, 27461), (121, 27515), (124, 27524), (137, 27578), (155, 27656), (164, 27689), (187, 27746),

Gene: Cucurbita_53 Start: 34200, Stop: 34607, Start Num: 88
Candidate Starts for Cucurbita_53:
(Start: 88 @34200 has 27 MA's), (102, 34263), (104, 34266), (132, 34368), (155, 34479), (166, 34521), (191, 34596),

Gene: Cuke_27 Start: 25711, Stop: 26124, Start Num: 78
Candidate Starts for Cuke_27:
(47, 25657), (68, 25693), (Start: 78 @25711 has 4 MA's), (83, 25720), (Start: 84 @25723 has 30 MA's), (91, 25744), (96, 25777), (100, 25792), (109, 25813), (115, 25846), (128, 25891), (141, 25951), (152, 25999), (172, 26074), (174, 26086), (182, 26104),

Gene: Culver_51 Start: 32639, Stop: 33046, Start Num: 88
Candidate Starts for Culver_51:
(Start: 88 @32639 has 27 MA's), (102, 32702), (104, 32705), (132, 32807), (155, 32918), (166, 32960), (191, 33035),

Gene: Curiosium_33 Start: 27140, Stop: 27580, Start Num: 54
Candidate Starts for Curiosium_33:

(10, 26840), (12, 26852), (22, 26906), (29, 27017), (34, 27077), (Start: 54 @27140 has 131 MA's), (Start: 71 @27170 has 3 MA's), (75, 27176), (Start: 78 @27182 has 4 MA's), (83, 27194), (94, 27242), (97, 27254), (109, 27287), (110, 27290), (121, 27341), (124, 27350), (137, 27404), (141, 27425), (155, 27482), (169, 27536),

Gene: Dadosky_32 Start: 27920, Stop: 28369, Start Num: 46
Candidate Starts for Dadosky_32:
(Start: 44 @27917 has 16 MA's), (Start: 46 @27920 has 6 MA's), (Start: 71 @27962 has 3 MA's), (Start: 78 @27974 has 4 MA's), (83, 27986), (94, 28034), (97, 28046), (98, 28052), (106, 28070), (109, 28079), (124, 28142), (128, 28157), (137, 28196), (139, 28205), (141, 28217), (154, 28271), (155, 28274), (161, 28295), (164, 28307),

Gene: Daegal_35 Start: 29890, Stop: 30300, Start Num: 60
Candidate Starts for Daegal_35:
(Start: 60 @29890 has 32 MA's), (97, 29992), (115, 30058), (119, 30070), (122, 30082), (128, 30103), (149, 30190), (172, 30283),

Gene: Dakiti_32 Start: 38325, Stop: 38846, Start Num: 41
Candidate Starts for Dakiti_32:
(Start: 41 @38325 has 20 MA's), (Start: 66 @38379 has 45 MA's), (73, 38391), (83, 38412), (106, 38496), (108, 38502), (127, 38580), (139, 38631), (155, 38703), (170, 38760), (177, 38784), (181, 38793), (186, 38811),

Gene: Dalmuri_32 Start: 27377, Stop: 27817, Start Num: 54
Candidate Starts for Dalmuri_32:
(34, 27314), (Start: 54 @27377 has 131 MA's), (Start: 71 @27407 has 3 MA's), (75, 27413), (Start: 78 @27419 has 4 MA's), (83, 27431), (94, 27479), (98, 27497), (109, 27524), (121, 27578), (124, 27587), (137, 27641), (141, 27662), (155, 27719), (164, 27752), (187, 27809),

Gene: Damien_35 Start: 32383, Stop: 32844, Start Num: 60
Candidate Starts for Damien_35:
(Start: 60 @32383 has 32 MA's), (Start: 67 @32395 has 1 MA's), (Start: 80 @32419 has 1 MA's), (90, 32446), (101, 32503), (102, 32506), (106, 32512), (108, 32518), (111, 32527), (113, 32536), (115, 32554), (128, 32599), (129, 32602), (136, 32638), (145, 32674), (150, 32692), (162, 32743), (171, 32779),

Gene: Damp_33 Start: 38855, Stop: 39292, Start Num: 66
Candidate Starts for Damp_33:
(Start: 41 @38801 has 20 MA's), (Start: 66 @38855 has 45 MA's), (73, 38867), (83, 38888), (97, 38948), (104, 38969), (140, 39110), (155, 39179),

Gene: DanSyl44_36 Start: 29337, Stop: 29735, Start Num: 72
Candidate Starts for DanSyl44_36:
(31, 29217), (Start: 72 @29337 has 23 MA's), (83, 29358), (86, 29367), (110, 29454), (114, 29469), (128, 29529), (130, 29535), (134, 29553), (139, 29577), (144, 29598), (148, 29610), (150, 29619), (152, 29634), (158, 29655), (174, 29715),

Gene: Daredevil_32 Start: 29087, Stop: 29497, Start Num: 84
Candidate Starts for Daredevil_32:
(Start: 84 @29087 has 30 MA's), (116, 29213), (150, 29348), (173, 29447),

Gene: DartGoblin_32 Start: 27241, Stop: 27681, Start Num: 54
Candidate Starts for DartGoblin_32:

(8, 26914), (17, 26980), (34, 27178), (Start: 54 @27241 has 131 MA's), (Start: 71 @27271 has 3 MA's), (75, 27277), (Start: 78 @27283 has 4 MA's), (83, 27295), (94, 27343), (98, 27361), (109, 27388), (121, 27442), (124, 27451), (137, 27505), (155, 27583), (164, 27616), (187, 27673),

Gene: DarthP_31 Start: 27643, Stop: 28107, Start Num: 53
Candidate Starts for DarthP_31:
(Start: 44 @27628 has 16 MA's), (Start: 53 @27643 has 12 MA's), (Start: 71 @27673 has 3 MA's), (73, 27676), (83, 27697), (98, 27763), (109, 27790), (121, 27844), (137, 27907), (155, 27985), (159, 27997),

Gene: Dartin_32 Start: 26622, Stop: 27086, Start Num: 54
Candidate Starts for Dartin_32:
(29, 26496), (30, 26523), (Start: 54 @26622 has 131 MA's), (Start: 71 @26652 has 3 MA's), (75, 26658), (Start: 78 @26664 has 4 MA's), (83, 26676), (94, 26724), (97, 26736), (109, 26769), (110, 26772), (121, 26823), (137, 26886), (141, 26907), (146, 26922), (152, 26952), (155, 26964), (159, 26976),

Gene: DatBoi_34 Start: 31309, Stop: 31719, Start Num: 84
Candidate Starts for DatBoi_34:
(Start: 84 @31309 has 30 MA's), (109, 31399), (132, 31486), (150, 31570), (159, 31609),

Gene: Deby_32 Start: 27311, Stop: 27751, Start Num: 54
Candidate Starts for Deby_32:
(34, 27248), (Start: 54 @27311 has 131 MA's), (Start: 71 @27341 has 3 MA's), (75, 27347), (Start: 78 @27353 has 4 MA's), (83, 27365), (94, 27413), (98, 27431), (109, 27458), (121, 27512), (124, 27521), (137, 27575), (141, 27596), (155, 27653), (164, 27686), (187, 27743),

Gene: DeepSoil15_34 Start: 29596, Stop: 30006, Start Num: 60
Candidate Starts for DeepSoil15_34:
(Start: 60 @29596 has 32 MA's), (97, 29698), (115, 29764), (119, 29776), (122, 29788), (128, 29809), (149, 29896), (172, 29989),

Gene: Demosthenes_31 Start: 39018, Stop: 39470, Start Num: 50
Candidate Starts for Demosthenes_31:
(Start: 50 @39018 has 3 MA's), (93, 39078), (96, 39105), (100, 39120), (123, 39204), (131, 39228), (140, 39270), (143, 39288), (146, 39297), (157, 39342), (177, 39417),

Gene: Devera_32 Start: 27351, Stop: 27791, Start Num: 54
Candidate Starts for Devera_32:
(Start: 54 @27351 has 131 MA's), (Start: 71 @27381 has 3 MA's), (75, 27387), (Start: 78 @27393 has 4 MA's), (83, 27405), (94, 27453), (98, 27471), (109, 27498), (117, 27537), (121, 27552), (124, 27561), (137, 27615), (155, 27693), (187, 27783),

Gene: Dewey_33 Start: 29596, Stop: 30006, Start Num: 60
Candidate Starts for Dewey_33:
(Start: 60 @29596 has 32 MA's), (97, 29698), (115, 29764), (119, 29776), (122, 29788), (128, 29809), (149, 29896), (172, 29989),

Gene: Diabla_35 Start: 39281, Stop: 39739, Start Num: 66
Candidate Starts for Diabla_35:
(Start: 41 @39227 has 20 MA's), (49, 39254), (Start: 66 @39281 has 45 MA's), (73, 39293), (83, 39314), (97, 39374), (104, 39395), (106, 39398), (127, 39482), (155, 39605), (170, 39662), (177, 39686), (181, 39695),

Gene: DismalFunk_30 Start: 26028, Stop: 26414, Start Num: 88
Candidate Starts for DismalFunk_30:
(Start: 88 @26028 has 27 MA's), (Start: 89 @26031 has 4 MA's), (107, 26103), (109, 26109), (112, 26118), (113, 26124), (116, 26145), (119, 26154), (121, 26163), (124, 26172), (139, 26235), (144, 26256), (149, 26274), (150, 26277),

Gene: DismalStressor_30 Start: 26028, Stop: 26414, Start Num: 88
Candidate Starts for DismalStressor_30:
(Start: 88 @26028 has 27 MA's), (Start: 89 @26031 has 4 MA's), (107, 26103), (109, 26109), (112, 26118), (113, 26124), (116, 26145), (119, 26154), (121, 26163), (124, 26172), (139, 26235), (144, 26256), (149, 26274), (150, 26277),

Gene: Dole_32 Start: 27353, Stop: 27793, Start Num: 54
Candidate Starts for Dole_32:
(Start: 54 @27353 has 131 MA's), (Start: 71 @27383 has 3 MA's), (75, 27389), (Start: 78 @27395 has 4 MA's), (83, 27407), (94, 27455), (98, 27473), (109, 27500), (117, 27539), (121, 27554), (124, 27563), (137, 27617), (155, 27695), (187, 27785),

Gene: DoubleChamp_31 Start: 27991, Stop: 28398, Start Num: 71
Candidate Starts for DoubleChamp_31:
(3, 27433), (5, 27547), (Start: 44 @27946 has 16 MA's), (Start: 46 @27949 has 6 MA's), (Start: 71 @27991 has 3 MA's), (Start: 78 @28003 has 4 MA's), (83, 28015), (94, 28063), (97, 28075), (98, 28081), (106, 28099), (109, 28108), (121, 28162), (124, 28171), (128, 28186), (137, 28225), (139, 28234), (141, 28246), (152, 28291), (154, 28300), (155, 28303), (161, 28324), (164, 28336),

Gene: Doughnut_31 Start: 26109, Stop: 26495, Start Num: 88
Candidate Starts for Doughnut_31:
(Start: 88 @26109 has 27 MA's), (Start: 89 @26112 has 4 MA's), (109, 26190), (112, 26199), (113, 26205), (116, 26226), (119, 26235), (120, 26241), (121, 26244), (124, 26253), (139, 26316), (144, 26337), (149, 26355), (150, 26358),

Gene: DrHayes_32 Start: 27266, Stop: 27706, Start Num: 54
Candidate Starts for DrHayes_32:
(Start: 44 @27251 has 16 MA's), (Start: 54 @27266 has 131 MA's), (Start: 71 @27296 has 3 MA's), (75, 27302), (Start: 78 @27308 has 4 MA's), (83, 27320), (94, 27368), (98, 27386), (109, 27413), (121, 27467), (124, 27476), (137, 27530), (155, 27608), (164, 27641), (187, 27698), (188, 27701),

Gene: Durfee_32 Start: 27377, Stop: 27817, Start Num: 54
Candidate Starts for Durfee_32:
(34, 27314), (Start: 54 @27377 has 131 MA's), (Start: 71 @27407 has 3 MA's), (75, 27413), (Start: 78 @27419 has 4 MA's), (83, 27431), (94, 27479), (98, 27497), (109, 27524), (121, 27578), (124, 27587), (136, 27638), (137, 27641), (141, 27662), (155, 27719), (164, 27752), (187, 27809),

Gene: Dusty_50 Start: 32639, Stop: 33046, Start Num: 88
Candidate Starts for Dusty_50:
(Start: 88 @32639 has 27 MA's), (102, 32702), (104, 32705), (132, 32807), (155, 32918), (166, 32960), (191, 33035),

Gene: Edugator_31 Start: 27961, Stop: 28368, Start Num: 71
Candidate Starts for Edugator_31:
(Start: 44 @27916 has 16 MA's), (Start: 46 @27919 has 6 MA's), (Start: 71 @27961 has 3 MA's), (Start: 78 @27973 has 4 MA's), (83, 27985), (94, 28033), (97, 28045), (98, 28051), (106, 28069), (109,

28078), (124, 28141), (128, 28156), (137, 28195), (139, 28204), (141, 28216), (154, 28270), (155, 28273), (161, 28294),

Gene: Efra2_32 Start: 26582, Stop: 27031, Start Num: 54
Candidate Starts for Efra2_32:
(Start: 54 @26582 has 131 MA's), (Start: 71 @26612 has 3 MA's), (75, 26618), (Start: 78 @26624 has 4 MA's), (83, 26636), (94, 26684), (97, 26696), (109, 26729), (110, 26732), (121, 26783), (124, 26792), (141, 26867), (146, 26882), (155, 26924), (188, 27023),

Gene: Eggsie_32 Start: 37550, Stop: 38008, Start Num: 66
Candidate Starts for Eggsie_32:
(Start: 66 @37550 has 45 MA's), (73, 37562), (83, 37583), (97, 37643), (104, 37664), (106, 37667), (127, 37751), (155, 37874), (170, 37931), (177, 37955), (181, 37964),

Gene: Ein37_34 Start: 29596, Stop: 30006, Start Num: 60
Candidate Starts for Ein37_34:
(Start: 60 @29596 has 32 MA's), (97, 29698), (115, 29764), (119, 29776), (122, 29788), (128, 29809), (149, 29896), (172, 29989),

Gene: Ekdilam_29 Start: 27401, Stop: 27862, Start Num: 53
Candidate Starts for Ekdilam_29:
(Start: 53 @27401 has 12 MA's), (Start: 71 @27431 has 3 MA's), (73, 27434), (83, 27455), (98, 27521), (109, 27548), (117, 27587), (121, 27602), (137, 27665), (155, 27743), (159, 27755),

Gene: Ekhein_32 Start: 37342, Stop: 37863, Start Num: 41
Candidate Starts for Ekhein_32:
(Start: 41 @37342 has 20 MA's), (Start: 66 @37396 has 45 MA's), (73, 37408), (83, 37429), (106, 37513), (127, 37597), (139, 37648), (141, 37660), (155, 37720), (170, 37777), (181, 37810), (184, 37825),

Gene: Ellie_29 Start: 27400, Stop: 27864, Start Num: 53
Candidate Starts for Ellie_29:
(29, 27277), (Start: 53 @27400 has 12 MA's), (Start: 71 @27430 has 3 MA's), (73, 27433), (79, 27445), (85, 27460), (97, 27514), (98, 27520), (109, 27547), (121, 27601), (137, 27664), (155, 27742),

Gene: Emerson_32 Start: 27337, Stop: 27777, Start Num: 54
Candidate Starts for Emerson_32:
(20, 27100), (34, 27274), (Start: 54 @27337 has 131 MA's), (Start: 71 @27367 has 3 MA's), (75, 27373), (Start: 78 @27379 has 4 MA's), (83, 27391), (94, 27439), (98, 27457), (109, 27484), (121, 27538), (124, 27547), (137, 27601), (141, 27622), (155, 27679), (164, 27712), (187, 27769),

Gene: Engineer_53 Start: 33314, Stop: 33721, Start Num: 88
Candidate Starts for Engineer_53:
(Start: 88 @33314 has 27 MA's), (102, 33377), (104, 33380), (132, 33482), (155, 33593), (166, 33635), (191, 33710),

Gene: Enkosi_28 Start: 26747, Stop: 27205, Start Num: 54
Candidate Starts for Enkosi_28:
(24, 26528), (Start: 54 @26747 has 131 MA's), (Start: 71 @26777 has 3 MA's), (75, 26783), (83, 26801), (97, 26861), (106, 26885), (109, 26894), (110, 26897), (113, 26909), (121, 26948), (124, 26957), (125, 26960), (137, 27011), (141, 27032), (146, 27047), (155, 27089), (159, 27101),

Gene: Eponine_35 Start: 29224, Stop: 29622, Start Num: 72

Candidate Starts for Eponine_35:
(31, 29104), (Start: 72 @29224 has 23 MA's), (83, 29245), (86, 29254), (110, 29341), (114, 29356), (128, 29416), (130, 29422), (134, 29440), (139, 29464), (144, 29485), (148, 29497), (150, 29506), (152, 29521), (158, 29542), (174, 29602),

Gene: Evanesce_33 Start: 29596, Stop: 30006, Start Num: 60
Candidate Starts for Evanesce_33:
(Start: 60 @29596 has 32 MA's), (97, 29698), (115, 29764), (119, 29776), (122, 29788), (128, 29809), (149, 29896), (172, 29989),

Gene: Eviarto_22 Start: 21074, Stop: 21430, Start Num: 87
Candidate Starts for Eviarto_22:
(Start: 87 @21074 has 25 MA's), (100, 21134), (104, 21143), (124, 21218), (139, 21281), (141, 21293), (156, 21353),

Gene: Exiguo_32 Start: 37408, Stop: 37875, Start Num: 66
Candidate Starts for Exiguo_32:
(Start: 41 @37354 has 20 MA's), (Start: 66 @37408 has 45 MA's), (73, 37420), (83, 37441), (106, 37525), (127, 37609), (139, 37660), (141, 37672), (155, 37732), (170, 37789), (181, 37822), (184, 37837),

Gene: Faiyaz_33 Start: 30335, Stop: 30691, Start Num: 89
Candidate Starts for Faiyaz_33:
(33, 30185), (Start: 89 @30335 has 4 MA's), (94, 30368), (110, 30416), (113, 30428), (117, 30452), (121, 30467), (127, 30488), (135, 30518), (139, 30539), (140, 30542), (155, 30608), (158, 30617), (161, 30629),

Gene: Farewell_28 Start: 26686, Stop: 27078, Start Num: 84
Candidate Starts for Farewell_28:
(Start: 84 @26686 has 30 MA's), (102, 26752), (104, 26755), (122, 26818), (139, 26887), (148, 26920), (150, 26929), (164, 26989), (167, 27004), (178, 27034), (190, 27070),

Gene: Fefferhead_31 Start: 27600, Stop: 28064, Start Num: 53
Candidate Starts for Fefferhead_31:
(29, 27477), (Start: 53 @27600 has 12 MA's), (Start: 71 @27630 has 3 MA's), (73, 27633), (79, 27645), (85, 27660), (97, 27714), (98, 27720), (109, 27747), (121, 27801), (137, 27864), (155, 27942),

Gene: FelixAlejandro_37 Start: 39623, Stop: 40090, Start Num: 66
Candidate Starts for FelixAlejandro_37:
(Start: 41 @39569 has 20 MA's), (Start: 66 @39623 has 45 MA's), (73, 39635), (83, 39656), (97, 39716), (106, 39740), (127, 39824), (138, 39872), (141, 39887), (155, 39947), (170, 40004), (181, 40037), (184, 40052),

Gene: Feyre_31 Start: 27833, Stop: 28285, Start Num: 44
Candidate Starts for Feyre_31:
(Start: 44 @27833 has 16 MA's), (Start: 71 @27878 has 3 MA's), (Start: 78 @27890 has 4 MA's), (83, 27902), (94, 27950), (97, 27962), (98, 27968), (109, 27995), (121, 28049), (124, 28058), (128, 28073), (137, 28112), (141, 28133), (154, 28187), (155, 28190), (164, 28223),

Gene: Findley_30 Start: 26020, Stop: 26406, Start Num: 88
Candidate Starts for Findley_30:
(Start: 88 @26020 has 27 MA's), (Start: 89 @26023 has 4 MA's), (91, 26032), (107, 26095), (109, 26101), (112, 26110), (113, 26116), (116, 26137), (119, 26146), (121, 26155), (124, 26164), (139,

26227), (144, 26248), (149, 26266), (150, 26269),

Gene: Fionnbharth_33 Start: 28459, Stop: 28857, Start Num: 72
Candidate Starts for Fionnbharth_33:
(Start: 72 @28459 has 23 MA's), (83, 28480), (86, 28489), (110, 28576), (114, 28591), (130, 28657), (134, 28675), (139, 28699), (144, 28720), (148, 28732), (150, 28741), (152, 28756), (158, 28777),

Gene: Flakey_32 Start: 38218, Stop: 38739, Start Num: 41
Candidate Starts for Flakey_32:
(Start: 41 @38218 has 20 MA's), (Start: 66 @38272 has 45 MA's), (73, 38284), (83, 38305), (106, 38389), (127, 38473), (139, 38524), (141, 38536), (155, 38596), (170, 38653), (181, 38686), (184, 38701),

Gene: Forge_33 Start: 29596, Stop: 30006, Start Num: 60
Candidate Starts for Forge_33:
(Start: 60 @29596 has 32 MA's), (97, 29698), (115, 29764), (119, 29776), (122, 29788), (128, 29809), (149, 29896), (172, 29989),

Gene: Fowlmouth_30 Start: 29190, Stop: 29609, Start Num: 78
Candidate Starts for Fowlmouth_30:
(47, 29136), (Start: 78 @29190 has 4 MA's), (83, 29205), (91, 29229), (96, 29262), (172, 29559), (174, 29571), (182, 29589),

Gene: Frickyeah_23 Start: 19960, Stop: 20334, Start Num: 87
Candidate Starts for Frickyeah_23:
(Start: 84 @19954 has 30 MA's), (Start: 87 @19960 has 25 MA's), (99, 20017), (100, 20020), (104, 20029), (124, 20104), (130, 20125), (139, 20167), (140, 20170), (164, 20269),

Gene: GMA2_39 Start: 41812, Stop: 42174, Start Num: 88
Candidate Starts for GMA2_39:
(Start: 88 @41812 has 27 MA's), (90, 41818), (97, 41857), (102, 41875), (117, 41929), (141, 42034), (157, 42097),

Gene: GMA3_27 Start: 36415, Stop: 36849, Start Num: 56
Candidate Starts for GMA3_27:
(56, 36415), (96, 36520), (97, 36523), (124, 36619), (126, 36628), (135, 36661), (145, 36709), (155, 36751),

Gene: GMA7_26 Start: 32429, Stop: 32848, Start Num: 66
Candidate Starts for GMA7_26:
(Start: 66 @32429 has 45 MA's), (96, 32501), (102, 32522), (108, 32534), (110, 32540), (135, 32642), (141, 32675), (142, 32681), (152, 32723), (165, 32777), (170, 32792), (184, 32840),

Gene: GTE7_26 Start: 32460, Stop: 32879, Start Num: 66
Candidate Starts for GTE7_26:
(Start: 66 @32460 has 45 MA's), (96, 32532), (102, 32553), (108, 32565), (110, 32571), (135, 32673), (141, 32706), (142, 32712), (152, 32754), (165, 32808), (170, 32823), (184, 32871),

Gene: GalacticEye_33 Start: 39653, Stop: 40090, Start Num: 66
Candidate Starts for GalacticEye_33:
(Start: 41 @39599 has 20 MA's), (Start: 66 @39653 has 45 MA's), (73, 39665), (83, 39686), (97, 39746), (104, 39767), (140, 39908), (155, 39977),

Gene: Gancho_33 Start: 29319, Stop: 29729, Start Num: 60
Candidate Starts for Gancho_33:
(Start: 60 @29319 has 32 MA's), (97, 29421), (115, 29487), (119, 29499), (122, 29511), (128, 29532), (149, 29619), (172, 29712),

Gene: Ganymede_33 Start: 27357, Stop: 27806, Start Num: 54
Candidate Starts for Ganymede_33:
(20, 27120), (34, 27294), (Start: 54 @27357 has 131 MA's), (Start: 71 @27387 has 3 MA's), (75, 27393), (Start: 78 @27399 has 4 MA's), (83, 27411), (94, 27459), (98, 27477), (109, 27504), (121, 27558), (124, 27567), (137, 27621), (141, 27642), (155, 27699),

Gene: Geeche_50 Start: 32730, Stop: 33137, Start Num: 88
Candidate Starts for Geeche_50:
(Start: 88 @32730 has 27 MA's), (102, 32793), (104, 32796), (132, 32898), (155, 33009), (166, 33051), (191, 33126),

Gene: Gengar_31 Start: 27943, Stop: 28395, Start Num: 44
Candidate Starts for Gengar_31:
(Start: 44 @27943 has 16 MA's), (Start: 71 @27988 has 3 MA's), (Start: 78 @28000 has 4 MA's), (83, 28012), (94, 28060), (97, 28072), (98, 28078), (109, 28105), (121, 28159), (124, 28168), (128, 28183), (137, 28222), (141, 28243), (154, 28297), (155, 28300), (164, 28333),

Gene: Geraldini_32 Start: 27354, Stop: 27794, Start Num: 54
Candidate Starts for Geraldini_32:
(20, 27117), (34, 27291), (Start: 54 @27354 has 131 MA's), (Start: 71 @27384 has 3 MA's), (75, 27390), (Start: 78 @27396 has 4 MA's), (83, 27408), (94, 27456), (98, 27474), (109, 27501), (121, 27555), (124, 27564), (137, 27618), (141, 27639), (155, 27696), (164, 27729), (187, 27786),

Gene: Getalong_25 Start: 20997, Stop: 21371, Start Num: 87
Candidate Starts for Getalong_25:
(Start: 84 @20991 has 30 MA's), (Start: 87 @20997 has 25 MA's), (99, 21054), (100, 21057), (116, 21114), (130, 21162), (139, 21204), (140, 21207), (164, 21306),

Gene: Gibbles_29 Start: 35291, Stop: 35674, Start Num: 84
Candidate Starts for Gibbles_29:
(Start: 84 @35291 has 30 MA's), (110, 35387), (140, 35513), (144, 35531), (150, 35552),

Gene: Giles_33 Start: 29596, Stop: 30006, Start Num: 60
Candidate Starts for Giles_33:
(Start: 60 @29596 has 32 MA's), (97, 29698), (115, 29764), (119, 29776), (122, 29788), (128, 29809), (149, 29896), (172, 29989),

Gene: Gmala1_27 Start: 34646, Stop: 35092, Start Num: 76
Candidate Starts for Gmala1_27:
(55, 34610), (73, 34640), (76, 34646), (96, 34721), (125, 34823), (127, 34832), (141, 34895),

Gene: GordDuk1_27 Start: 34584, Stop: 35030, Start Num: 76
Candidate Starts for GordDuk1_27:
(73, 34578), (76, 34584), (96, 34659), (125, 34761), (127, 34770), (141, 34833),

Gene: GordTnk2_27 Start: 34553, Stop: 34999, Start Num: 76
Candidate Starts for GordTnk2_27:
(55, 34517), (73, 34547), (76, 34553), (96, 34628), (125, 34730), (127, 34739), (141, 34802),

Gene: Gorko_32 Start: 37346, Stop: 37867, Start Num: 41
Candidate Starts for Gorko_32:
(Start: 41 @37346 has 20 MA's), (Start: 66 @37400 has 45 MA's), (73, 37412), (83, 37433), (106, 37517), (127, 37601), (139, 37652), (141, 37664), (155, 37724), (170, 37781), (181, 37814), (184, 37829),

Gene: GourdThymes_32 Start: 38220, Stop: 38741, Start Num: 41
Candidate Starts for GourdThymes_32:
(Start: 41 @38220 has 20 MA's), (Start: 66 @38274 has 45 MA's), (73, 38286), (83, 38307), (106, 38391), (127, 38475), (139, 38526), (141, 38538), (155, 38598), (170, 38655), (181, 38688), (184, 38703),

Gene: Gravaillia_33 Start: 29325, Stop: 29735, Start Num: 60
Candidate Starts for Gravaillia_33:
(Start: 60 @29325 has 32 MA's), (97, 29427), (115, 29493), (119, 29505), (122, 29517), (128, 29538), (149, 29625), (172, 29718),

Gene: Guanica15_32 Start: 26599, Stop: 27048, Start Num: 54
Candidate Starts for Guanica15_32:
(Start: 54 @26599 has 131 MA's), (Start: 71 @26629 has 3 MA's), (75, 26635), (Start: 78 @26641 has 4 MA's), (83, 26653), (94, 26701), (97, 26713), (109, 26746), (110, 26749), (121, 26800), (124, 26809), (137, 26863), (141, 26884), (146, 26899), (155, 26941), (188, 27040),

Gene: Guillaume_33 Start: 39703, Stop: 40140, Start Num: 66
Candidate Starts for Guillaume_33:
(Start: 41 @39649 has 20 MA's), (Start: 66 @39703 has 45 MA's), (73, 39715), (83, 39736), (97, 39796), (104, 39817), (140, 39958), (155, 40027),

Gene: Guillsminger_31 Start: 27915, Stop: 28367, Start Num: 44
Candidate Starts for Guillsminger_31:
(Start: 44 @27915 has 16 MA's), (Start: 71 @27960 has 3 MA's), (Start: 78 @27972 has 4 MA's), (83, 27984), (94, 28032), (97, 28044), (98, 28050), (109, 28077), (121, 28131), (124, 28140), (128, 28155), (137, 28194), (141, 28215), (154, 28269), (155, 28272), (164, 28305),

Gene: HH92_33 Start: 29596, Stop: 30006, Start Num: 60
Candidate Starts for HH92_33:
(Start: 60 @29596 has 32 MA's), (97, 29698), (115, 29764), (119, 29776), (122, 29788), (128, 29809), (149, 29896), (172, 29989),

Gene: Hadrien_34 Start: 29596, Stop: 30006, Start Num: 60
Candidate Starts for Hadrien_34:
(Start: 60 @29596 has 32 MA's), (97, 29698), (115, 29764), (119, 29776), (122, 29788), (128, 29809), (149, 29896), (172, 29989),

Gene: Hail_33 Start: 29596, Stop: 30006, Start Num: 60
Candidate Starts for Hail_33:
(Start: 60 @29596 has 32 MA's), (97, 29698), (115, 29764), (119, 29776), (122, 29788), (128, 29809), (149, 29896), (172, 29989),

Gene: Hail2Pitt_33 Start: 40180, Stop: 40617, Start Num: 66
Candidate Starts for Hail2Pitt_33:

(Start: 41 @40126 has 20 MA's), (Start: 66 @40180 has 45 MA's), (73, 40192), (83, 40213), (97, 40273), (104, 40294), (140, 40435), (155, 40504),

Gene: Hammy_31 Start: 27634, Stop: 28098, Start Num: 53
Candidate Starts for Hammy_31:
(Start: 44 @27619 has 16 MA's), (Start: 53 @27634 has 12 MA's), (Start: 71 @27664 has 3 MA's), (73, 27667), (83, 27688), (98, 27754), (109, 27781), (121, 27835), (137, 27898), (155, 27976), (159, 27988),

Gene: Harambe_33 Start: 39970, Stop: 40407, Start Num: 66
Candidate Starts for Harambe_33:
(Start: 41 @39916 has 20 MA's), (Start: 66 @39970 has 45 MA's), (73, 39982), (83, 40003), (97, 40063), (104, 40084), (140, 40225), (155, 40294),

Gene: HayZem_35 Start: 38212, Stop: 38631, Start Num: 66
Candidate Starts for HayZem_35:
(Start: 66 @38212 has 45 MA's), (96, 38284), (102, 38305), (108, 38317), (110, 38323), (135, 38425), (141, 38458), (142, 38464), (152, 38506), (165, 38560), (170, 38575), (184, 38623),

Gene: HedwigODU_32 Start: 27346, Stop: 27786, Start Num: 54
Candidate Starts for HedwigODU_32:
(20, 27109), (34, 27283), (Start: 54 @27346 has 131 MA's), (Start: 71 @27376 has 3 MA's), (75, 27382), (Start: 78 @27388 has 4 MA's), (83, 27400), (94, 27448), (98, 27466), (109, 27493), (121, 27547), (136, 27607), (137, 27610), (141, 27631), (155, 27688), (164, 27721), (187, 27778),

Gene: Heftyboy_31 Start: 28061, Stop: 28513, Start Num: 44
Candidate Starts for Heftyboy_31:
(Start: 44 @28061 has 16 MA's), (Start: 71 @28106 has 3 MA's), (Start: 78 @28118 has 4 MA's), (83, 28130), (94, 28178), (97, 28190), (98, 28196), (109, 28223), (110, 28226), (121, 28277), (124, 28286), (128, 28301), (137, 28340), (141, 28361), (154, 28415), (155, 28418), (164, 28451),

Gene: Hello_33 Start: 39932, Stop: 40369, Start Num: 66
Candidate Starts for Hello_33:
(Start: 41 @39878 has 20 MA's), (Start: 66 @39932 has 45 MA's), (73, 39944), (83, 39965), (97, 40025), (104, 40046), (140, 40187), (155, 40256),

Gene: Herod_22 Start: 21074, Stop: 21430, Start Num: 87
Candidate Starts for Herod_22:
(Start: 87 @21074 has 25 MA's), (100, 21134), (104, 21143), (124, 21218), (139, 21281), (141, 21293), (156, 21353),

Gene: Hilltopfarm_33 Start: 30365, Stop: 30721, Start Num: 89
Candidate Starts for Hilltopfarm_33:
(33, 30215), (Start: 89 @30365 has 4 MA's), (94, 30398), (110, 30446), (113, 30458), (117, 30482), (121, 30497), (127, 30518), (135, 30548), (139, 30569), (140, 30572), (155, 30638), (158, 30647), (161, 30659),

Gene: Holliday_24 Start: 20296, Stop: 20676, Start Num: 84
Candidate Starts for Holliday_24:
(4, 19807), (13, 19918), (15, 19936), (Start: 84 @20296 has 30 MA's), (Start: 87 @20302 has 25 MA's), (99, 20359), (100, 20362), (104, 20371), (124, 20446), (139, 20509), (140, 20512), (141, 20521), (156, 20581), (157, 20584),

Gene: Hollow_32 Start: 39444, Stop: 39878, Start Num: 70
Candidate Starts for Hollow_32:
(Start: 70 @39444 has 10 MA's), (83, 39465), (96, 39516), (136, 39666), (143, 39699), (146, 39708), (155, 39747), (157, 39753), (159, 39759), (160, 39765), (161, 39768), (177, 39828),

Gene: Homura_32 Start: 27377, Stop: 27817, Start Num: 54
Candidate Starts for Homura_32:
(34, 27314), (Start: 54 @27377 has 131 MA's), (Start: 71 @27407 has 3 MA's), (75, 27413), (Start: 78 @27419 has 4 MA's), (83, 27431), (94, 27479), (98, 27497), (109, 27524), (121, 27578), (124, 27587), (136, 27638), (137, 27641), (141, 27662), (155, 27719), (164, 27752), (187, 27809),

Gene: Horus_24 Start: 20213, Stop: 20593, Start Num: 84
Candidate Starts for Horus_24:
(Start: 84 @20213 has 30 MA's), (Start: 87 @20219 has 25 MA's), (99, 20276), (100, 20279), (124, 20363), (130, 20384), (139, 20426), (140, 20429), (164, 20528),

Gene: Hotorobo_32 Start: 38225, Stop: 38746, Start Num: 41
Candidate Starts for Hotorobo_32:
(Start: 41 @38225 has 20 MA's), (Start: 66 @38279 has 45 MA's), (73, 38291), (83, 38312), (106, 38396), (127, 38480), (139, 38531), (141, 38543), (155, 38603), (170, 38660), (181, 38693), (184, 38708),

Gene: Hugley_22 Start: 21074, Stop: 21430, Start Num: 87
Candidate Starts for Hugley_22:
(Start: 87 @21074 has 25 MA's), (100, 21134), (104, 21143), (124, 21218), (139, 21281), (141, 21293), (156, 21353),

Gene: Hurricane_33 Start: 28195, Stop: 28641, Start Num: 54
Candidate Starts for Hurricane_33:
(43, 28162), (Start: 54 @28195 has 131 MA's), (Start: 71 @28225 has 3 MA's), (98, 28315), (109, 28342), (110, 28345), (117, 28381), (121, 28396), (137, 28459), (144, 28489), (155, 28537),

Gene: Hyperbowlee_32 Start: 27377, Stop: 27817, Start Num: 54
Candidate Starts for Hyperbowlee_32:
(34, 27314), (Start: 54 @27377 has 131 MA's), (Start: 71 @27407 has 3 MA's), (75, 27413), (Start: 78 @27419 has 4 MA's), (83, 27431), (94, 27479), (98, 27497), (109, 27524), (121, 27578), (124, 27587), (136, 27638), (137, 27641), (141, 27662), (155, 27719), (164, 27752), (187, 27809),

Gene: IdentityCrisis_27 Start: 23066, Stop: 23467, Start Num: 81
Candidate Starts for IdentityCrisis_27:
(Start: 81 @23066 has 4 MA's), (102, 23141), (104, 23144), (122, 23207), (139, 23276), (148, 23309), (150, 23318), (164, 23378), (167, 23393), (178, 23423), (190, 23459),

Gene: Illumine_32 Start: 27353, Stop: 27793, Start Num: 54
Candidate Starts for Illumine_32:
(Start: 54 @27353 has 131 MA's), (Start: 71 @27383 has 3 MA's), (75, 27389), (Start: 78 @27395 has 4 MA's), (83, 27407), (94, 27455), (98, 27473), (109, 27500), (117, 27539), (121, 27554), (124, 27563), (137, 27617), (155, 27695), (187, 27785),

Gene: Inky_32 Start: 27377, Stop: 27817, Start Num: 54
Candidate Starts for Inky_32:
(34, 27314), (Start: 54 @27377 has 131 MA's), (Start: 71 @27407 has 3 MA's), (75, 27413), (Start: 78 @27419 has 4 MA's), (83, 27431), (94, 27479), (98, 27497), (109, 27524), (121, 27578), (124, 27587),

(137, 27641), (141, 27662), (155, 27719), (164, 27752), (187, 27809),

Gene: InvictusManeo_31 Start: 27989, Stop: 28441, Start Num: 44
Candidate Starts for InvictusManeo_31:
(3, 27476), (5, 27590), (Start: 44 @27989 has 16 MA's), (Start: 46 @27992 has 6 MA's), (Start: 71 @28034 has 3 MA's), (Start: 78 @28046 has 4 MA's), (83, 28058), (94, 28106), (97, 28118), (98, 28124), (106, 28142), (109, 28151), (121, 28205), (124, 28214), (128, 28229), (137, 28268), (139, 28277), (141, 28289), (152, 28334), (154, 28343), (155, 28346), (161, 28367), (164, 28379),

Gene: JAWS_32 Start: 27331, Stop: 27771, Start Num: 54
Candidate Starts for JAWS_32:
(19, 27082), (34, 27268), (Start: 54 @27331 has 131 MA's), (Start: 71 @27361 has 3 MA's), (75, 27367), (Start: 78 @27373 has 4 MA's), (83, 27385), (94, 27433), (98, 27451), (109, 27478), (121, 27532), (124, 27541), (136, 27592), (137, 27595), (155, 27673), (164, 27706), (187, 27763),

Gene: JF1_33 Start: 28458, Stop: 28856, Start Num: 72
Candidate Starts for JF1_33:
(Start: 72 @28458 has 23 MA's), (83, 28479), (86, 28488), (110, 28575), (114, 28590), (117, 28611), (130, 28656), (134, 28674), (139, 28698), (144, 28719), (148, 28731), (150, 28740), (152, 28755), (158, 28776),

Gene: Jams_33 Start: 39141, Stop: 39578, Start Num: 66
Candidate Starts for Jams_33:
(Start: 41 @39087 has 20 MA's), (Start: 66 @39141 has 45 MA's), (73, 39153), (83, 39174), (97, 39234), (104, 39255), (140, 39396), (155, 39465),

Gene: Jarvi_32 Start: 27377, Stop: 27817, Start Num: 54
Candidate Starts for Jarvi_32:
(34, 27314), (Start: 54 @27377 has 131 MA's), (Start: 71 @27407 has 3 MA's), (75, 27413), (Start: 78 @27419 has 4 MA's), (83, 27431), (94, 27479), (98, 27497), (109, 27524), (121, 27578), (124, 27587), (137, 27641), (141, 27662), (155, 27719), (164, 27752), (187, 27809),

Gene: Jayhawk_32 Start: 27344, Stop: 27784, Start Num: 54
Candidate Starts for Jayhawk_32:
(20, 27107), (34, 27281), (Start: 54 @27344 has 131 MA's), (Start: 71 @27374 has 3 MA's), (75, 27380), (Start: 78 @27386 has 4 MA's), (83, 27398), (94, 27446), (98, 27464), (109, 27491), (121, 27545), (136, 27605), (137, 27608), (141, 27629), (155, 27686), (164, 27719), (187, 27776),

Gene: Jeckyll_32 Start: 27377, Stop: 27817, Start Num: 54
Candidate Starts for Jeckyll_32:
(34, 27314), (Start: 54 @27377 has 131 MA's), (Start: 71 @27407 has 3 MA's), (75, 27413), (Start: 78 @27419 has 4 MA's), (83, 27431), (94, 27479), (98, 27497), (109, 27524), (121, 27578), (124, 27587), (137, 27641), (141, 27662), (155, 27719), (164, 27752), (187, 27809),

Gene: Jellybones_36 Start: 39484, Stop: 39951, Start Num: 66
Candidate Starts for Jellybones_36:
(Start: 41 @39430 has 20 MA's), (Start: 66 @39484 has 45 MA's), (73, 39496), (83, 39517), (97, 39577), (106, 39601), (127, 39685), (139, 39736), (141, 39748), (155, 39808), (170, 39865), (181, 39898), (184, 39913),

Gene: John316_36 Start: 39437, Stop: 39904, Start Num: 66
Candidate Starts for John316_36:

(Start: 41 @39383 has 20 MA's), (Start: 66 @39437 has 45 MA's), (73, 39449), (83, 39470), (106, 39554), (127, 39638), (139, 39689), (141, 39701), (155, 39761), (170, 39818), (181, 39851), (184, 39866),

Gene: Jormungandr_33 Start: 39685, Stop: 40122, Start Num: 66
Candidate Starts for Jormungandr_33:
(Start: 41 @39631 has 20 MA's), (Start: 66 @39685 has 45 MA's), (73, 39697), (83, 39718), (97, 39778), (104, 39799), (140, 39940), (155, 40009),

Gene: Joy99_32 Start: 27306, Stop: 27746, Start Num: 54
Candidate Starts for Joy99_32:
(34, 27243), (Start: 54 @27306 has 131 MA's), (Start: 71 @27336 has 3 MA's), (75, 27342), (Start: 78 @27348 has 4 MA's), (83, 27360), (94, 27408), (98, 27426), (109, 27453), (121, 27507), (124, 27516), (137, 27570), (141, 27591), (155, 27648), (164, 27681), (187, 27738),

Gene: Juliette_35 Start: 28617, Stop: 29015, Start Num: 72
Candidate Starts for Juliette_35:
(Start: 72 @28617 has 23 MA's), (83, 28638), (86, 28647), (110, 28734), (114, 28749), (128, 28809), (130, 28815), (134, 28833), (139, 28857), (144, 28878), (148, 28890), (150, 28899), (152, 28914), (174, 28995),

Gene: Jumbo_34 Start: 40874, Stop: 41350, Start Num: 50
Candidate Starts for Jumbo_34:
(Start: 50 @40874 has 3 MA's), (62, 40892), (96, 40991), (98, 41000), (100, 41006), (118, 41069), (124, 41090), (125, 41093), (139, 41153), (140, 41156), (143, 41174), (167, 41270), (170, 41279),

Gene: Kamaru_24 Start: 20302, Stop: 20676, Start Num: 87
Candidate Starts for Kamaru_24:
(4, 19807), (13, 19918), (15, 19936), (Start: 84 @20296 has 30 MA's), (Start: 87 @20302 has 25 MA's), (99, 20359), (100, 20362), (104, 20371), (124, 20446), (139, 20509), (140, 20512), (141, 20521), (156, 20581), (157, 20584),

Gene: Kampe_30 Start: 35152, Stop: 35535, Start Num: 84
Candidate Starts for Kampe_30:
(Start: 84 @35152 has 30 MA's), (110, 35248), (140, 35374), (144, 35392), (150, 35413),

Gene: Kaseim_33 Start: 39126, Stop: 39563, Start Num: 66
Candidate Starts for Kaseim_33:
(Start: 41 @39072 has 20 MA's), (Start: 66 @39126 has 45 MA's), (73, 39138), (83, 39159), (97, 39219), (104, 39240), (140, 39381), (155, 39450),

Gene: Katyusha_31 Start: 39098, Stop: 39532, Start Num: 70
Candidate Starts for Katyusha_31:
(Start: 70 @39098 has 10 MA's), (83, 39119), (91, 39137), (96, 39170), (136, 39320), (140, 39335), (153, 39395), (155, 39401), (157, 39407), (177, 39482),

Gene: Kelzog_32 Start: 38286, Stop: 38753, Start Num: 66
Candidate Starts for Kelzog_32:
(Start: 41 @38232 has 20 MA's), (Start: 66 @38286 has 45 MA's), (73, 38298), (83, 38319), (106, 38403), (127, 38487), (139, 38538), (141, 38550), (155, 38610), (170, 38667), (181, 38700), (184, 38715),

Gene: Kenna_23 Start: 20192, Stop: 20569, Start Num: 84

Candidate Starts for Kenna_23:
(Start: 84 @20192 has 30 MA's), (Start: 87 @20198 has 25 MA's), (99, 20255), (100, 20258), (104, 20267), (124, 20342), (130, 20363), (139, 20405), (140, 20408), (141, 20417), (156, 20477), (157, 20480),

Gene: Keshu_33 Start: 28183, Stop: 28629, Start Num: 54
Candidate Starts for Keshu_33:
(Start: 54 @28183 has 131 MA's), (Start: 71 @28213 has 3 MA's), (Start: 84 @28240 has 30 MA's), (98, 28303), (109, 28330), (110, 28333), (117, 28369), (121, 28384), (124, 28393), (137, 28447), (144, 28477), (155, 28525),

Gene: KiSi_31 Start: 26374, Stop: 26829, Start Num: 54
Candidate Starts for KiSi_31:
(Start: 54 @26374 has 131 MA's), (Start: 71 @26404 has 3 MA's), (73, 26407), (Start: 84 @26431 has 30 MA's), (98, 26494), (109, 26521), (110, 26524), (121, 26575), (137, 26638), (155, 26716), (159, 26728), (160, 26734),

Gene: Kiko_24 Start: 20229, Stop: 20624, Start Num: 80
Candidate Starts for Kiko_24:
(1, 19326), (2, 19548), (6, 19797), (7, 19827), (36, 20112), (Start: 80 @20229 has 1 MA's), (Start: 87 @20247 has 25 MA's), (104, 20316), (111, 20334), (114, 20346), (116, 20364), (124, 20391), (139, 20454), (140, 20457), (156, 20526),

Gene: Kinbote_34 Start: 29596, Stop: 30006, Start Num: 60
Candidate Starts for Kinbote_34:
(Start: 60 @29596 has 32 MA's), (97, 29698), (115, 29764), (119, 29776), (122, 29788), (128, 29809), (149, 29896), (172, 29989),

Gene: Konstantine_40 Start: 33596, Stop: 34045, Start Num: 67
Candidate Starts for Konstantine_40:
(Start: 60 @33584 has 32 MA's), (Start: 67 @33596 has 1 MA's), (Start: 80 @33620 has 1 MA's), (90, 33647), (101, 33704), (102, 33707), (106, 33713), (108, 33719), (111, 33728), (113, 33737), (128, 33800), (129, 33803), (136, 33839), (145, 33875), (150, 33893), (162, 33944), (171, 33980), (185, 34025),

Gene: Kratio_30 Start: 27620, Stop: 28072, Start Num: 44
Candidate Starts for Kratio_30:
(3, 27107), (5, 27221), (Start: 44 @27620 has 16 MA's), (Start: 46 @27623 has 6 MA's), (Start: 71 @27665 has 3 MA's), (Start: 78 @27677 has 4 MA's), (83, 27689), (94, 27737), (97, 27749), (98, 27755), (106, 27773), (109, 27782), (121, 27836), (124, 27845), (128, 27860), (137, 27899), (139, 27908), (141, 27920), (154, 27974), (155, 27977), (161, 27998), (164, 28010),

Gene: Kraw_33 Start: 28383, Stop: 28781, Start Num: 72
Candidate Starts for Kraw_33:
(Start: 72 @28383 has 23 MA's), (83, 28404), (86, 28413), (110, 28500), (114, 28515), (130, 28581), (134, 28599), (139, 28623), (144, 28644), (148, 28656), (150, 28665), (152, 28680), (158, 28701), (160, 28710),

Gene: Krueger_32 Start: 26494, Stop: 26958, Start Num: 54
Candidate Starts for Krueger_32:
(Start: 54 @26494 has 131 MA's), (Start: 66 @26515 has 45 MA's), (Start: 71 @26524 has 3 MA's), (73, 26527), (97, 26608), (98, 26614), (109, 26641), (121, 26695), (137, 26758), (141, 26779), (155, 26836), (159, 26848),

Gene: Kuwabara_23 Start: 19624, Stop: 19995, Start Num: 87
Candidate Starts for Kuwabara_23:
(Start: 84 @19618 has 30 MA's), (Start: 87 @19624 has 25 MA's), (99, 19681), (100, 19684), (124, 19768), (130, 19789), (139, 19831), (140, 19834), (141, 19843), (156, 19903), (157, 19906),

Gene: Kvothe_31 Start: 38997, Stop: 39431, Start Num: 70
Candidate Starts for Kvothe_31:
(Start: 70 @38997 has 10 MA's), (83, 39018), (91, 39036), (96, 39069), (136, 39219), (140, 39234), (143, 39252), (147, 39264), (155, 39300), (157, 39306), (177, 39381),

Gene: Lahirium_33 Start: 40207, Stop: 40644, Start Num: 66
Candidate Starts for Lahirium_33:
(Start: 41 @40153 has 20 MA's), (Start: 66 @40207 has 45 MA's), (73, 40219), (83, 40240), (97, 40300), (104, 40321), (140, 40462), (155, 40531),

Gene: Larva_32 Start: 27784, Stop: 28236, Start Num: 44
Candidate Starts for Larva_32:
(Start: 44 @27784 has 16 MA's), (Start: 46 @27787 has 6 MA's), (Start: 71 @27829 has 3 MA's), (Start: 78 @27841 has 4 MA's), (83, 27853), (94, 27901), (97, 27913), (98, 27919), (106, 27937), (109, 27946), (124, 28009), (128, 28024), (137, 28063), (139, 28072), (141, 28084), (154, 28138), (155, 28141), (161, 28162), (164, 28174),

Gene: LastHope_32 Start: 26463, Stop: 26915, Start Num: 54
Candidate Starts for LastHope_32:
(16, 26205), (29, 26340), (34, 26400), (Start: 54 @26463 has 131 MA's), (Start: 71 @26493 has 3 MA's), (75, 26499), (Start: 78 @26505 has 4 MA's), (83, 26517), (94, 26565), (97, 26577), (109, 26610), (110, 26613), (121, 26664), (124, 26673), (137, 26727), (139, 26736), (141, 26748), (155, 26805),

Gene: LaterM_32 Start: 27270, Stop: 27710, Start Num: 54
Candidate Starts for LaterM_32:
(20, 27033), (Start: 54 @27270 has 131 MA's), (Start: 71 @27300 has 3 MA's), (75, 27306), (Start: 78 @27312 has 4 MA's), (83, 27324), (94, 27372), (98, 27390), (109, 27417), (117, 27456), (121, 27471), (124, 27480), (137, 27534), (155, 27612), (187, 27702),

Gene: Lavahound_30 Start: 27292, Stop: 27756, Start Num: 53
Candidate Starts for Lavahound_30:
(29, 27169), (Start: 53 @27292 has 12 MA's), (Start: 71 @27322 has 3 MA's), (73, 27325), (79, 27337), (85, 27352), (95, 27400), (97, 27406), (98, 27412), (109, 27439), (121, 27493), (137, 27556), (155, 27634),

Gene: LeMond_31 Start: 26445, Stop: 26900, Start Num: 54
Candidate Starts for LeMond_31:
(Start: 54 @26445 has 131 MA's), (Start: 71 @26475 has 3 MA's), (73, 26478), (Start: 84 @26502 has 30 MA's), (98, 26565), (109, 26592), (110, 26595), (121, 26646), (137, 26709), (155, 26787), (160, 26805),

Gene: Lea83_33 Start: 28253, Stop: 28699, Start Num: 54
Candidate Starts for Lea83_33:
(43, 28220), (Start: 54 @28253 has 131 MA's), (Start: 71 @28283 has 3 MA's), (98, 28373), (109, 28400), (110, 28403), (117, 28439), (121, 28454), (137, 28517), (144, 28547), (155, 28595),

Gene: Lebo14_33 Start: 28472, Stop: 28870, Start Num: 72
Candidate Starts for Lebo14_33:
(37, 28376), (Start: 72 @28472 has 23 MA's), (83, 28493), (86, 28502), (110, 28589), (114, 28604), (128, 28664), (130, 28670), (134, 28688), (139, 28712), (144, 28733), (148, 28745), (150, 28754), (152, 28769), (158, 28790), (174, 28850),

Gene: Leroy_24 Start: 20214, Stop: 20594, Start Num: 84
Candidate Starts for Leroy_24:
(Start: 84 @20214 has 30 MA's), (Start: 87 @20220 has 25 MA's), (99, 20277), (100, 20280), (124, 20364), (130, 20385), (139, 20427), (140, 20430), (164, 20529),

Gene: Leston_31 Start: 28090, Stop: 28497, Start Num: 71
Candidate Starts for Leston_31:
(Start: 44 @28045 has 16 MA's), (Start: 71 @28090 has 3 MA's), (Start: 78 @28102 has 4 MA's), (83, 28114), (94, 28162), (97, 28174), (98, 28180), (109, 28207), (121, 28261), (124, 28270), (128, 28285), (137, 28324), (141, 28345), (154, 28399), (155, 28402), (164, 28435),

Gene: Lidong_33 Start: 39941, Stop: 40378, Start Num: 66
Candidate Starts for Lidong_33:
(Start: 41 @39887 has 20 MA's), (Start: 66 @39941 has 45 MA's), (73, 39953), (83, 39974), (97, 40034), (104, 40055), (140, 40196), (155, 40265),

Gene: LilDirt_30 Start: 27749, Stop: 28198, Start Num: 46
Candidate Starts for LilDirt_30:
(3, 27233), (5, 27347), (Start: 44 @27746 has 16 MA's), (Start: 46 @27749 has 6 MA's), (Start: 71 @27791 has 3 MA's), (Start: 78 @27803 has 4 MA's), (83, 27815), (94, 27863), (97, 27875), (98, 27881), (106, 27899), (109, 27908), (121, 27962), (124, 27971), (128, 27986), (137, 28025), (139, 28034), (141, 28046), (152, 28091), (154, 28100), (155, 28103), (161, 28124), (164, 28136),

Gene: LilHazelnut_34 Start: 29596, Stop: 30006, Start Num: 60
Candidate Starts for LilHazelnut_34:
(Start: 60 @29596 has 32 MA's), (97, 29698), (115, 29764), (119, 29776), (122, 29788), (128, 29809), (149, 29896), (172, 29989),

Gene: LilPharaoh_28 Start: 26747, Stop: 27205, Start Num: 54
Candidate Starts for LilPharaoh_28:
(24, 26528), (Start: 54 @26747 has 131 MA's), (Start: 71 @26777 has 3 MA's), (75, 26783), (83, 26801), (97, 26861), (106, 26885), (109, 26894), (110, 26897), (113, 26909), (121, 26948), (124, 26957), (125, 26960), (137, 27011), (141, 27032), (146, 27047), (155, 27089), (159, 27101),

Gene: LindNT_32 Start: 27310, Stop: 27750, Start Num: 54
Candidate Starts for LindNT_32:
(20, 27073), (34, 27247), (Start: 54 @27310 has 131 MA's), (Start: 71 @27340 has 3 MA's), (75, 27346), (Start: 78 @27352 has 4 MA's), (83, 27364), (94, 27412), (98, 27430), (109, 27457), (121, 27511), (124, 27520), (137, 27574), (155, 27652), (164, 27685), (187, 27742),

Gene: Linetti_33 Start: 38505, Stop: 38972, Start Num: 66
Candidate Starts for Linetti_33:
(Start: 41 @38451 has 20 MA's), (Start: 66 @38505 has 45 MA's), (73, 38517), (83, 38538), (106, 38622), (108, 38628), (127, 38706), (139, 38757), (155, 38829), (170, 38886), (177, 38910), (181, 38919), (186, 38937),

Gene: LitninMcQueen_23 Start: 19948, Stop: 20325, Start Num: 84

Candidate Starts for LitninMcQueen_23:
(Start: 84 @19948 has 30 MA's), (Start: 87 @19954 has 25 MA's), (99, 20011), (100, 20014), (124, 20098), (130, 20119), (139, 20161), (140, 20164), (164, 20263),

Gene: Lizzo_32 Start: 38214, Stop: 38735, Start Num: 41
Candidate Starts for Lizzo_32:
(Start: 41 @38214 has 20 MA's), (Start: 66 @38268 has 45 MA's), (73, 38280), (83, 38301), (106, 38385), (127, 38469), (139, 38520), (141, 38532), (155, 38592), (170, 38649), (181, 38682), (184, 38697),

Gene: Llorens_32 Start: 27377, Stop: 27817, Start Num: 54
Candidate Starts for Llorens_32:
(34, 27314), (Start: 54 @27377 has 131 MA's), (Start: 71 @27407 has 3 MA's), (75, 27413), (Start: 78 @27419 has 4 MA's), (83, 27431), (94, 27479), (98, 27497), (109, 27524), (121, 27578), (124, 27587), (137, 27641), (141, 27662), (155, 27719), (164, 27752), (187, 27809),

Gene: LonelyBoi_23 Start: 20872, Stop: 21258, Start Num: 84
Candidate Starts for LonelyBoi_23:
(Start: 84 @20872 has 30 MA's), (Start: 87 @20878 has 25 MA's), (100, 20938), (124, 21022), (148, 21118), (156, 21157), (176, 21232),

Gene: Lozinak_52 Start: 33369, Stop: 33776, Start Num: 88
Candidate Starts for Lozinak_52:
(Start: 88 @33369 has 27 MA's), (102, 33432), (104, 33435), (132, 33537), (155, 33648), (166, 33690), (191, 33765),

Gene: Luke_34 Start: 29551, Stop: 29961, Start Num: 60
Candidate Starts for Luke_34:
(Start: 60 @29551 has 32 MA's), (97, 29653), (115, 29719), (119, 29731), (122, 29743), (128, 29764), (149, 29851), (172, 29944),

Gene: Luker_34 Start: 40160, Stop: 40597, Start Num: 66
Candidate Starts for Luker_34:
(Start: 41 @40106 has 20 MA's), (Start: 66 @40160 has 45 MA's), (73, 40172), (83, 40193), (97, 40253), (104, 40274), (140, 40415), (155, 40484),

Gene: Luna22_33 Start: 29596, Stop: 30006, Start Num: 60
Candidate Starts for Luna22_33:
(Start: 60 @29596 has 32 MA's), (97, 29698), (115, 29764), (119, 29776), (122, 29788), (128, 29809), (149, 29896), (172, 29989),

Gene: Lunahalos_32 Start: 27377, Stop: 27817, Start Num: 54
Candidate Starts for Lunahalos_32:
(34, 27314), (Start: 54 @27377 has 131 MA's), (Start: 71 @27407 has 3 MA's), (75, 27413), (Start: 78 @27419 has 4 MA's), (83, 27431), (94, 27479), (98, 27497), (109, 27524), (121, 27578), (124, 27587), (137, 27641), (141, 27662), (155, 27719), (164, 27752), (187, 27809),

Gene: Lutum_24 Start: 20192, Stop: 20569, Start Num: 84
Candidate Starts for Lutum_24:
(Start: 84 @20192 has 30 MA's), (Start: 87 @20198 has 25 MA's), (99, 20255), (100, 20258), (104, 20267), (124, 20342), (130, 20363), (139, 20405), (140, 20408), (141, 20417), (156, 20477), (157, 20480),

Gene: MacKat_32 Start: 27354, Stop: 27794, Start Num: 54
Candidate Starts for MacKat_32:
(34, 27291), (Start: 54 @27354 has 131 MA's), (Start: 71 @27384 has 3 MA's), (75, 27390), (Start: 78 @27396 has 4 MA's), (83, 27408), (94, 27456), (98, 27474), (109, 27501), (121, 27555), (124, 27564), (137, 27618), (141, 27639), (155, 27696), (164, 27729), (187, 27786),

Gene: MacnCheese_33 Start: 28230, Stop: 28682, Start Num: 54
Candidate Starts for MacnCheese_33:
(43, 28197), (Start: 54 @28230 has 131 MA's), (Start: 66 @28251 has 45 MA's), (Start: 71 @28260 has 3 MA's), (98, 28350), (109, 28377), (110, 28380), (117, 28416), (121, 28431), (137, 28494), (141, 28515), (155, 28572), (159, 28584), (164, 28605), (180, 28653),

Gene: Madavieve_22 Start: 21354, Stop: 21710, Start Num: 87
Candidate Starts for Madavieve_22:
(Start: 87 @21354 has 25 MA's), (100, 21414), (104, 21423), (124, 21498), (139, 21561), (141, 21573), (156, 21633),

Gene: Madeline_22 Start: 21372, Stop: 21728, Start Num: 87
Candidate Starts for Madeline_22:
(23, 21066), (26, 21159), (27, 21174), (39, 21270), (Start: 87 @21372 has 25 MA's), (100, 21432), (104, 21441), (124, 21516), (139, 21579), (141, 21591), (156, 21651),

Gene: MalagasyRose_32 Start: 26704, Stop: 27135, Start Num: 58
Candidate Starts for MalagasyRose_32:
(Start: 58 @26704 has 1 MA's), (64, 26713), (Start: 72 @26725 has 23 MA's), (74, 26728), (77, 26734), (83, 26746), (85, 26752), (91, 26770), (97, 26806), (98, 26812), (106, 26830), (109, 26839), (110, 26842), (119, 26884), (121, 26893), (124, 26902), (128, 26917), (137, 26956), (139, 26965), (141, 26977), (155, 27034), (161, 27055), (183, 27121),

Gene: Malibo_24 Start: 20256, Stop: 20633, Start Num: 87
Candidate Starts for Malibo_24:
(Start: 87 @20256 has 25 MA's), (100, 20316), (104, 20325), (124, 20400), (141, 20475), (156, 20535),

Gene: Malisha_25 Start: 22077, Stop: 22454, Start Num: 84
Candidate Starts for Malisha_25:
(4, 21588), (13, 21699), (15, 21717), (Start: 84 @22077 has 30 MA's), (Start: 87 @22083 has 25 MA's), (99, 22140), (104, 22152), (124, 22227), (139, 22290), (140, 22293), (146, 22317), (156, 22362), (157, 22365),

Gene: Malthus_34 Start: 28383, Stop: 28781, Start Num: 72
Candidate Starts for Malthus_34:
(Start: 72 @28383 has 23 MA's), (83, 28404), (86, 28413), (110, 28500), (114, 28515), (130, 28581), (134, 28599), (139, 28623), (144, 28644), (148, 28656), (150, 28665), (152, 28680), (158, 28701), (160, 28710),

Gene: Marcoliusprime_30 Start: 26028, Stop: 26414, Start Num: 88
Candidate Starts for Marcoliusprime_30:
(Start: 88 @26028 has 27 MA's), (Start: 89 @26031 has 4 MA's), (107, 26103), (109, 26109), (112, 26118), (113, 26124), (116, 26145), (119, 26154), (121, 26163), (124, 26172), (139, 26235), (144, 26256), (149, 26274), (150, 26277),

Gene: MarkPhew_32 Start: 26343, Stop: 26798, Start Num: 54
Candidate Starts for MarkPhew_32:

(34, 26280), (38, 26298), (Start: 54 @26343 has 131 MA's), (Start: 71 @26373 has 3 MA's), (73, 26376), (Start: 84 @26400 has 30 MA's), (99, 26466), (109, 26490), (121, 26544), (140, 26619), (155, 26685),

Gene: Marshawn_33 Start: 27023, Stop: 27481, Start Num: 54
Candidate Starts for Marshawn_33:
(29, 26900), (34, 26960), (Start: 54 @27023 has 131 MA's), (Start: 71 @27053 has 3 MA's), (98, 27143), (109, 27170), (121, 27224), (137, 27287), (139, 27296), (141, 27308), (155, 27365), (159, 27377),

Gene: Mbo2_27 Start: 28891, Stop: 29355, Start Num: 88
Candidate Starts for Mbo2_27:
(Start: 88 @28891 has 27 MA's), (103, 28954), (105, 28957), (114, 28987), (119, 29014), (121, 29023), (132, 29053), (139, 29095), (142, 29113), (146, 29122), (149, 29134), (155, 29164), (158, 29173),

Gene: McMater_32 Start: 26622, Stop: 27086, Start Num: 54
Candidate Starts for McMater_32:
(29, 26496), (30, 26523), (Start: 54 @26622 has 131 MA's), (Start: 71 @26652 has 3 MA's), (75, 26658), (Start: 78 @26664 has 4 MA's), (83, 26676), (94, 26724), (97, 26736), (109, 26769), (110, 26772), (121, 26823), (137, 26886), (141, 26907), (146, 26922), (152, 26952), (155, 26964), (159, 26976),

Gene: Mdavu_28 Start: 26735, Stop: 27193, Start Num: 54
Candidate Starts for Mdavu_28:
(24, 26516), (Start: 54 @26735 has 131 MA's), (Start: 71 @26765 has 3 MA's), (75, 26771), (83, 26789), (97, 26849), (106, 26873), (109, 26882), (110, 26885), (113, 26897), (121, 26936), (124, 26945), (125, 26948), (137, 26999), (141, 27020), (146, 27035), (155, 27077), (159, 27089),

Gene: MeaningOfLife_32 Start: 27313, Stop: 27762, Start Num: 54
Candidate Starts for MeaningOfLife_32:
(20, 27076), (34, 27250), (Start: 54 @27313 has 131 MA's), (Start: 71 @27343 has 3 MA's), (75, 27349), (Start: 78 @27355 has 4 MA's), (83, 27367), (94, 27415), (98, 27433), (109, 27460), (121, 27514), (124, 27523), (137, 27577), (141, 27598), (155, 27655),

Gene: Megatron06_37 Start: 32916, Stop: 33377, Start Num: 60
Candidate Starts for Megatron06_37:
(Start: 60 @32916 has 32 MA's), (Start: 67 @32928 has 1 MA's), (Start: 80 @32952 has 1 MA's), (90, 32979), (101, 33036), (106, 33045), (108, 33051), (111, 33060), (113, 33069), (115, 33087), (128, 33132), (129, 33135), (136, 33171), (145, 33207), (150, 33225), (162, 33276), (171, 33312),

Gene: Megsy_32 Start: 27313, Stop: 27753, Start Num: 54
Candidate Starts for Megsy_32:
(20, 27076), (34, 27250), (Start: 54 @27313 has 131 MA's), (Start: 71 @27343 has 3 MA's), (75, 27349), (Start: 78 @27355 has 4 MA's), (83, 27367), (94, 27415), (98, 27433), (109, 27460), (121, 27514), (124, 27523), (137, 27577), (155, 27655), (164, 27688), (187, 27745),

Gene: Milly_30 Start: 26001, Stop: 26387, Start Num: 88
Candidate Starts for Milly_30:
(Start: 88 @26001 has 27 MA's), (Start: 89 @26004 has 4 MA's), (91, 26013), (107, 26076), (109, 26082), (112, 26091), (113, 26097), (116, 26118), (119, 26127), (121, 26136), (124, 26145), (139, 26208), (144, 26229), (149, 26247), (150, 26250),

Gene: Minos_34 Start: 39683, Stop: 40120, Start Num: 66

Candidate Starts for Minos_34:
(Start: 41 @39629 has 20 MA's), (Start: 66 @39683 has 45 MA's), (73, 39695), (83, 39716), (97, 39776), (104, 39797), (140, 39938), (155, 40007),

Gene: Miryou_31 Start: 27900, Stop: 28352, Start Num: 44
Candidate Starts for Miryou_31:
(Start: 44 @27900 has 16 MA's), (Start: 71 @27945 has 3 MA's), (Start: 78 @27957 has 4 MA's), (83, 27969), (94, 28017), (97, 28029), (98, 28035), (109, 28062), (121, 28116), (124, 28125), (128, 28140), (137, 28179), (141, 28200), (154, 28254), (155, 28257), (164, 28290),

Gene: Miskis_49 Start: 32674, Stop: 33081, Start Num: 88
Candidate Starts for Miskis_49:
(Start: 88 @32674 has 27 MA's), (102, 32737), (104, 32740), (132, 32842), (155, 32953), (166, 32995), (191, 33070),

Gene: MissDaisy_33 Start: 28226, Stop: 28624, Start Num: 72
Candidate Starts for MissDaisy_33:
(9, 27848), (11, 27857), (21, 27938), (31, 28106), (Start: 72 @28226 has 23 MA's), (83, 28247), (86, 28256), (110, 28343), (113, 28355), (124, 28403), (128, 28418), (130, 28424), (134, 28442), (139, 28466), (144, 28487), (152, 28523), (157, 28541), (158, 28544), (174, 28604),

Gene: Mitti_33 Start: 28384, Stop: 28782, Start Num: 72
Candidate Starts for Mitti_33:
(31, 28264), (Start: 72 @28384 has 23 MA's), (83, 28405), (86, 28414), (110, 28501), (114, 28516), (128, 28576), (130, 28582), (134, 28600), (139, 28624), (144, 28645), (148, 28657), (150, 28666), (152, 28681), (158, 28702), (174, 28762),

Gene: Mollymur_34 Start: 31778, Stop: 32188, Start Num: 84
Candidate Starts for Mollymur_34:
(Start: 84 @31778 has 30 MA's), (109, 31868), (150, 32039),

Gene: Monty_31 Start: 37418, Stop: 37885, Start Num: 66
Candidate Starts for Monty_31:
(Start: 41 @37364 has 20 MA's), (Start: 66 @37418 has 45 MA's), (73, 37430), (83, 37451), (106, 37535), (127, 37619), (139, 37670), (141, 37682), (155, 37742), (170, 37799), (181, 37832), (184, 37847),

Gene: MortyNRick_23 Start: 19924, Stop: 20301, Start Num: 84
Candidate Starts for MortyNRick_23:
(Start: 84 @19924 has 30 MA's), (Start: 87 @19930 has 25 MA's), (99, 19987), (100, 19990), (124, 20074), (130, 20095), (139, 20137), (140, 20140), (141, 20149), (156, 20209), (157, 20212),

Gene: MrMiyagi_30 Start: 29201, Stop: 29620, Start Num: 78
Candidate Starts for MrMiyagi_30:
(47, 29147), (Start: 78 @29201 has 4 MA's), (83, 29216), (91, 29240), (96, 29273), (172, 29570), (174, 29582), (182, 29600),

Gene: MrWormie_33 Start: 38844, Stop: 39281, Start Num: 66
Candidate Starts for MrWormie_33:
(Start: 41 @38790 has 20 MA's), (Start: 66 @38844 has 45 MA's), (73, 38856), (83, 38877), (97, 38937), (104, 38958), (140, 39099), (155, 39168),

Gene: Msay19_37 Start: 39614, Stop: 40081, Start Num: 66

Candidate Starts for Msay19_37:
(Start: 41 @39560 has 20 MA's), (Start: 66 @39614 has 45 MA's), (73, 39626), (83, 39647), (97, 39707), (106, 39731), (127, 39815), (139, 39866), (141, 39878), (155, 39938), (170, 39995), (181, 40028), (184, 40043),

Gene: Mufasa_31 Start: 26109, Stop: 26495, Start Num: 88
Candidate Starts for Mufasa_31:
(Start: 88 @26109 has 27 MA's), (Start: 89 @26112 has 4 MA's), (107, 26184), (109, 26190), (112, 26199), (113, 26205), (116, 26226), (119, 26235), (120, 26241), (121, 26244), (124, 26253), (139, 26316), (144, 26337), (149, 26355), (150, 26358),

Gene: Murucutumbu_32 Start: 27289, Stop: 27729, Start Num: 54
Candidate Starts for Murucutumbu_32:
(20, 27052), (Start: 54 @27289 has 131 MA's), (Start: 71 @27319 has 3 MA's), (75, 27325), (Start: 78 @27331 has 4 MA's), (83, 27343), (94, 27391), (98, 27409), (109, 27436), (117, 27475), (121, 27490), (124, 27499), (137, 27553), (155, 27631), (187, 27721),

Gene: Mynx_32 Start: 27360, Stop: 27800, Start Num: 54
Candidate Starts for Mynx_32:
(20, 27123), (34, 27297), (Start: 54 @27360 has 131 MA's), (Start: 71 @27390 has 3 MA's), (75, 27396), (Start: 78 @27402 has 4 MA's), (83, 27414), (94, 27462), (98, 27480), (109, 27507), (121, 27561), (124, 27570), (137, 27624), (141, 27645), (155, 27702), (164, 27735), (187, 27792),

Gene: Neighly_32 Start: 27783, Stop: 28235, Start Num: 44
Candidate Starts for Neighly_32:
(Start: 44 @27783 has 16 MA's), (Start: 46 @27786 has 6 MA's), (Start: 71 @27828 has 3 MA's), (Start: 78 @27840 has 4 MA's), (83, 27852), (94, 27900), (97, 27912), (98, 27918), (106, 27936), (109, 27945), (124, 28008), (128, 28023), (137, 28062), (139, 28071), (141, 28083), (154, 28137), (155, 28140), (161, 28161), (164, 28173),

Gene: Neoevie_33 Start: 39947, Stop: 40384, Start Num: 66
Candidate Starts for Neoevie_33:
(Start: 41 @39893 has 20 MA's), (Start: 66 @39947 has 45 MA's), (73, 39959), (83, 39980), (97, 40040), (104, 40061), (140, 40202), (155, 40271),

Gene: Nergal_28 Start: 25031, Stop: 25495, Start Num: 51
Candidate Starts for Nergal_28:
(Start: 51 @25031 has 1 MA's), (61, 25046), (94, 25139), (98, 25157), (109, 25184), (110, 25187), (121, 25238), (124, 25247), (137, 25301), (141, 25322), (148, 25343), (155, 25379), (159, 25391),

Gene: Newt_34 Start: 40174, Stop: 40611, Start Num: 66
Candidate Starts for Newt_34:
(Start: 41 @40120 has 20 MA's), (Start: 66 @40174 has 45 MA's), (73, 40186), (83, 40207), (97, 40267), (104, 40288), (140, 40429), (155, 40498),

Gene: Niagara_31 Start: 39055, Stop: 39489, Start Num: 70
Candidate Starts for Niagara_31:
(Start: 70 @39055 has 10 MA's), (83, 39076), (91, 39094), (96, 39127), (136, 39277), (140, 39292), (143, 39310), (147, 39322), (155, 39358), (157, 39364), (177, 39439),

Gene: Nibb_31 Start: 26478, Stop: 26939, Start Num: 54
Candidate Starts for Nibb_31:

(34, 26415), (Start: 54 @26478 has 131 MA's), (Start: 71 @26508 has 3 MA's), (73, 26511), (Start: 84 @26535 has 30 MA's), (98, 26598), (109, 26625), (121, 26679), (140, 26754), (152, 26808), (155, 26820), (160, 26838), (189, 26931),

Gene: Nikao_28 Start: 26747, Stop: 27205, Start Num: 54
Candidate Starts for Nikao_28:
(24, 26528), (Start: 54 @26747 has 131 MA's), (Start: 71 @26777 has 3 MA's), (75, 26783), (83, 26801), (97, 26861), (106, 26885), (109, 26894), (110, 26897), (113, 26909), (121, 26948), (124, 26957), (125, 26960), (137, 27011), (141, 27032), (146, 27047), (155, 27089), (159, 27101),

Gene: Niklas_32 Start: 26625, Stop: 27089, Start Num: 54
Candidate Starts for Niklas_32:
(29, 26499), (30, 26526), (Start: 54 @26625 has 131 MA's), (Start: 71 @26655 has 3 MA's), (75, 26661), (Start: 78 @26667 has 4 MA's), (83, 26679), (94, 26727), (97, 26739), (109, 26772), (110, 26775), (121, 26826), (137, 26889), (141, 26910), (146, 26925), (152, 26955), (155, 26967), (159, 26979),

Gene: Nimi13_33 Start: 39692, Stop: 40129, Start Num: 66
Candidate Starts for Nimi13_33:
(Start: 41 @39638 has 20 MA's), (Start: 66 @39692 has 45 MA's), (73, 39704), (83, 39725), (97, 39785), (104, 39806), (140, 39947), (155, 40016),

Gene: Norvs_52 Start: 32913, Stop: 33320, Start Num: 88
Candidate Starts for Norvs_52:
(Start: 88 @32913 has 27 MA's), (102, 32976), (104, 32979), (132, 33081), (155, 33192), (166, 33234), (191, 33309),

Gene: November_30 Start: 27559, Stop: 28023, Start Num: 53
Candidate Starts for November_30:
(Start: 53 @27559 has 12 MA's), (Start: 71 @27589 has 3 MA's), (83, 27613), (95, 27667), (98, 27679), (109, 27706), (121, 27760), (137, 27823), (155, 27901), (159, 27913),

Gene: NovoPizza_29 Start: 29282, Stop: 29686, Start Num: 69
Candidate Starts for NovoPizza_29:
(Start: 69 @29282 has 1 MA's), (85, 29318), (99, 29378), (100, 29381), (104, 29390), (116, 29438), (119, 29447), (140, 29531), (153, 29591), (163, 29627),

Gene: Nutello_28 Start: 26747, Stop: 27205, Start Num: 54
Candidate Starts for Nutello_28:
(24, 26528), (Start: 54 @26747 has 131 MA's), (Start: 71 @26777 has 3 MA's), (75, 26783), (83, 26801), (97, 26861), (106, 26885), (109, 26894), (110, 26897), (113, 26909), (121, 26948), (124, 26957), (125, 26960), (137, 27011), (141, 27032), (146, 27047), (155, 27089), (159, 27101),

Gene: Nymphadora_22 Start: 21074, Stop: 21430, Start Num: 87
Candidate Starts for Nymphadora_22:
(Start: 87 @21074 has 25 MA's), (100, 21134), (104, 21143), (124, 21218), (139, 21281), (141, 21293), (156, 21353),

Gene: OBUpride_34 Start: 29590, Stop: 30000, Start Num: 60
Candidate Starts for OBUpride_34:
(Start: 60 @29590 has 32 MA's), (97, 29692), (115, 29758), (119, 29770), (122, 29782), (128, 29803), (149, 29890), (172, 29983),

Gene: Oaker_35 Start: 32640, Stop: 33101, Start Num: 60
Candidate Starts for Oaker_35:
(Start: 60 @32640 has 32 MA's), (Start: 67 @32652 has 1 MA's), (Start: 80 @32676 has 1 MA's), (90, 32703), (101, 32760), (102, 32763), (106, 32769), (108, 32775), (111, 32784), (113, 32793), (128, 32856), (129, 32859), (136, 32895), (145, 32931), (150, 32949), (162, 33000), (171, 33036),

Gene: Ohgeesy_22 Start: 20697, Stop: 21053, Start Num: 87
Candidate Starts for Ohgeesy_22:
(Start: 87 @20697 has 25 MA's), (100, 20757), (104, 20766), (124, 20841), (139, 20904), (141, 20916), (156, 20976),

Gene: OkiRoe_31 Start: 27916, Stop: 28368, Start Num: 44
Candidate Starts for OkiRoe_31:
(Start: 44 @27916 has 16 MA's), (Start: 71 @27961 has 3 MA's), (Start: 78 @27973 has 4 MA's), (83, 27985), (94, 28033), (97, 28045), (98, 28051), (109, 28078), (121, 28132), (124, 28141), (128, 28156), (137, 28195), (141, 28216), (154, 28270), (155, 28273), (164, 28306),

Gene: OmniCritical_33 Start: 28368, Stop: 28766, Start Num: 72
Candidate Starts for OmniCritical_33:
(31, 28248), (Start: 72 @28368 has 23 MA's), (83, 28389), (86, 28398), (110, 28485), (114, 28500), (128, 28560), (130, 28566), (134, 28584), (139, 28608), (144, 28629), (148, 28641), (150, 28650), (152, 28665), (158, 28686), (174, 28746),

Gene: Omnicron_32 Start: 26804, Stop: 27253, Start Num: 44
Candidate Starts for Omnicron_32:
(Start: 44 @26804 has 16 MA's), (Start: 71 @26849 has 3 MA's), (73, 26852), (Start: 78 @26861 has 4 MA's), (83, 26873), (95, 26927), (98, 26939), (106, 26957), (109, 26966), (121, 27020), (124, 27029), (128, 27044), (137, 27083), (139, 27092), (140, 27095), (141, 27104), (154, 27158), (155, 27161), (161, 27182), (164, 27194),

Gene: OneUp_45 Start: 30331, Stop: 30756, Start Num: 82
Candidate Starts for OneUp_45:
(Start: 82 @30331 has 1 MA's), (93, 30364), (113, 30442), (114, 30445), (125, 30493), (132, 30517), (152, 30616), (155, 30628),

Gene: Orchid_30 Start: 35152, Stop: 35535, Start Num: 84
Candidate Starts for Orchid_30:
(Start: 84 @35152 has 30 MA's), (110, 35248), (140, 35374), (144, 35392), (150, 35413),

Gene: Oscar_31 Start: 26446, Stop: 26901, Start Num: 54
Candidate Starts for Oscar_31:
(Start: 54 @26446 has 131 MA's), (Start: 71 @26476 has 3 MA's), (73, 26479), (Start: 84 @26503 has 30 MA's), (98, 26566), (109, 26593), (110, 26596), (121, 26647), (137, 26710), (155, 26788), (160, 26806),

Gene: Padfoot_32 Start: 27377, Stop: 27817, Start Num: 54
Candidate Starts for Padfoot_32:
(34, 27314), (Start: 54 @27377 has 131 MA's), (Start: 71 @27407 has 3 MA's), (75, 27413), (Start: 78 @27419 has 4 MA's), (83, 27431), (94, 27479), (98, 27497), (109, 27524), (121, 27578), (124, 27587), (136, 27638), (137, 27641), (141, 27662), (155, 27719), (164, 27752), (187, 27809),

Gene: Padpat_32 Start: 27337, Stop: 27777, Start Num: 54
Candidate Starts for Padpat_32:

(20, 27100), (34, 27274), (Start: 54 @27337 has 131 MA's), (Start: 71 @27367 has 3 MA's), (75, 27373), (Start: 78 @27379 has 4 MA's), (83, 27391), (94, 27439), (98, 27457), (109, 27484), (121, 27538), (124, 27547), (137, 27601), (141, 27622), (155, 27679), (164, 27712), (187, 27769),

Gene: Paola_31 Start: 27915, Stop: 28367, Start Num: 44
Candidate Starts for Paola_31:
(Start: 44 @27915 has 16 MA's), (Start: 71 @27960 has 3 MA's), (Start: 78 @27972 has 4 MA's), (83, 27984), (94, 28032), (97, 28044), (98, 28050), (109, 28077), (121, 28131), (124, 28140), (128, 28155), (137, 28194), (141, 28215), (154, 28269), (155, 28272), (164, 28305),

Gene: PatrickStar_30 Start: 35152, Stop: 35535, Start Num: 84
Candidate Starts for PatrickStar_30:
(Start: 84 @35152 has 30 MA's), (110, 35248), (140, 35374), (144, 35392), (150, 35413),

Gene: Patt_33 Start: 28202, Stop: 28600, Start Num: 72
Candidate Starts for Patt_33:
(9, 27824), (11, 27833), (21, 27914), (31, 28082), (Start: 72 @28202 has 23 MA's), (83, 28223), (86, 28232), (110, 28319), (113, 28331), (124, 28379), (128, 28394), (130, 28400), (134, 28418), (139, 28442), (144, 28463), (152, 28499), (157, 28517), (158, 28520), (174, 28580),

Gene: Peanam_32 Start: 26622, Stop: 27086, Start Num: 54
Candidate Starts for Peanam_32:
(29, 26496), (Start: 54 @26622 has 131 MA's), (Start: 71 @26652 has 3 MA's), (75, 26658), (Start: 78 @26664 has 4 MA's), (83, 26676), (94, 26724), (97, 26736), (109, 26769), (110, 26772), (121, 26823), (137, 26886), (141, 26907), (146, 26922), (152, 26952), (155, 26964), (159, 26976),

Gene: Peel_32 Start: 27377, Stop: 27817, Start Num: 54
Candidate Starts for Peel_32:
(34, 27314), (Start: 54 @27377 has 131 MA's), (Start: 71 @27407 has 3 MA's), (75, 27413), (Start: 78 @27419 has 4 MA's), (83, 27431), (94, 27479), (98, 27497), (109, 27524), (121, 27578), (124, 27587), (137, 27641), (141, 27662), (155, 27719), (164, 27752), (187, 27809),

Gene: Periwinkle_26 Start: 20664, Stop: 21038, Start Num: 87
Candidate Starts for Periwinkle_26:
(Start: 84 @20658 has 30 MA's), (Start: 87 @20664 has 25 MA's), (99, 20721), (100, 20724), (104, 20733), (124, 20808), (130, 20829), (139, 20871), (140, 20874), (164, 20973),

Gene: Phabuloso_23 Start: 19948, Stop: 20325, Start Num: 84
Candidate Starts for Phabuloso_23:
(Start: 84 @19948 has 30 MA's), (Start: 87 @19954 has 25 MA's), (99, 20011), (100, 20014), (124, 20098), (130, 20119), (139, 20161), (140, 20164), (141, 20173), (156, 20233), (157, 20236),

Gene: Pharb_31 Start: 27504, Stop: 27944, Start Num: 54
Candidate Starts for Pharb_31:
(Start: 54 @27504 has 131 MA's), (Start: 66 @27525 has 45 MA's), (Start: 71 @27534 has 3 MA's), (98, 27624), (109, 27651), (110, 27654), (117, 27690), (121, 27705), (124, 27714), (137, 27768), (144, 27798), (155, 27846), (173, 27915),

Gene: PhelpsODU_32 Start: 26653, Stop: 27117, Start Num: 54
Candidate Starts for PhelpsODU_32:
(Start: 54 @26653 has 131 MA's), (Start: 66 @26674 has 45 MA's), (Start: 71 @26683 has 3 MA's), (73, 26686), (83, 26707), (85, 26713), (97, 26767), (98, 26773), (109, 26800), (137, 26917), (155, 26995), (159, 27007), (177, 27070),

Gene: Philon9_33 Start: 40236, Stop: 40667, Start Num: 70
Candidate Starts for Philon9_33:
(Start: 70 @40236 has 10 MA's), (74, 40242), (96, 40311), (98, 40320), (102, 40332), (119, 40392), (131, 40434), (136, 40461), (140, 40476), (143, 40494), (155, 40542), (159, 40554), (170, 40599),

Gene: PhinkBoden_51 Start: 33294, Stop: 33701, Start Num: 88
Candidate Starts for PhinkBoden_51:
(Start: 88 @33294 has 27 MA's), (102, 33357), (104, 33360), (132, 33462), (155, 33573), (166, 33615), (191, 33690),

Gene: Phistory_25 Start: 20985, Stop: 21359, Start Num: 87
Candidate Starts for Phistory_25:
(Start: 84 @20979 has 30 MA's), (Start: 87 @20985 has 25 MA's), (99, 21042), (100, 21045), (124, 21129), (130, 21150), (139, 21192), (140, 21195), (164, 21294),

Gene: Phrank_32 Start: 26603, Stop: 27067, Start Num: 54
Candidate Starts for Phrank_32:
(Start: 54 @26603 has 131 MA's), (Start: 66 @26624 has 45 MA's), (Start: 71 @26633 has 3 MA's), (73, 26636), (85, 26663), (97, 26717), (98, 26723), (109, 26750), (121, 26804), (140, 26879), (155, 26945), (177, 27020),

Gene: Phrappuccino_197 Start: 132691, Stop: 133080, Start Num: 81
Candidate Starts for Phrappuccino_197:
(Start: 81 @132691 has 4 MA's), (104, 132772), (108, 132781), (109, 132784), (124, 132841), (133, 132874), (144, 132925), (145, 132928), (148, 132937), (151, 132955), (153, 132967), (164, 133006),

Gene: Phreeze_35 Start: 32383, Stop: 32844, Start Num: 60
Candidate Starts for Phreeze_35:
(Start: 60 @32383 has 32 MA's), (Start: 67 @32395 has 1 MA's), (Start: 80 @32419 has 1 MA's), (90, 32446), (101, 32503), (102, 32506), (106, 32512), (108, 32518), (111, 32527), (113, 32536), (115, 32554), (128, 32599), (129, 32602), (136, 32638), (145, 32674), (150, 32692), (162, 32743), (171, 32779), (185, 32824),

Gene: Piatt_32 Start: 27377, Stop: 27817, Start Num: 54
Candidate Starts for Piatt_32:
(34, 27314), (Start: 54 @27377 has 131 MA's), (Start: 71 @27407 has 3 MA's), (75, 27413), (Start: 78 @27419 has 4 MA's), (83, 27431), (94, 27479), (98, 27497), (109, 27524), (121, 27578), (124, 27587), (136, 27638), (137, 27641), (141, 27662), (155, 27719), (164, 27752), (187, 27809),

Gene: PierreThree_32 Start: 38322, Stop: 38843, Start Num: 41
Candidate Starts for PierreThree_32:
(Start: 41 @38322 has 20 MA's), (Start: 66 @38376 has 45 MA's), (73, 38388), (83, 38409), (106, 38493), (108, 38499), (127, 38577), (139, 38628), (155, 38700), (170, 38757), (177, 38781), (181, 38790), (186, 38808),

Gene: Pisa1_31 Start: 27372, Stop: 27812, Start Num: 54
Candidate Starts for Pisa1_31:
(20, 27135), (34, 27309), (Start: 54 @27372 has 131 MA's), (Start: 71 @27402 has 3 MA's), (75, 27408), (Start: 78 @27414 has 4 MA's), (83, 27426), (94, 27474), (98, 27492), (109, 27519), (121, 27573), (124, 27582), (137, 27636), (155, 27714),

Gene: Pisa4_31 Start: 27372, Stop: 27812, Start Num: 54

Candidate Starts for Pisa4_31:
(20, 27135), (34, 27309), (Start: 54 @27372 has 131 MA's), (Start: 71 @27402 has 3 MA's), (75, 27408), (Start: 78 @27414 has 4 MA's), (83, 27426), (94, 27474), (98, 27492), (109, 27519), (121, 27573), (124, 27582), (137, 27636), (155, 27714),

Gene: Pixie_32 Start: 27737, Stop: 28183, Start Num: 54
Candidate Starts for Pixie_32:
(43, 27704), (Start: 54 @27737 has 131 MA's), (Start: 71 @27767 has 3 MA's), (98, 27857), (109, 27884), (110, 27887), (117, 27923), (121, 27938), (137, 28001), (144, 28031), (152, 28067), (155, 28079),

Gene: Pokerus_31 Start: 27294, Stop: 27734, Start Num: 54
Candidate Starts for Pokerus_31:
(20, 27057), (34, 27231), (Start: 54 @27294 has 131 MA's), (Start: 71 @27324 has 3 MA's), (75, 27330), (Start: 78 @27336 has 4 MA's), (83, 27348), (94, 27396), (98, 27414), (109, 27441), (121, 27495), (124, 27504), (137, 27558), (141, 27579), (155, 27636), (164, 27669), (187, 27726),

Gene: PokyPuppy_31 Start: 38322, Stop: 38789, Start Num: 66
Candidate Starts for PokyPuppy_31:
(Start: 66 @38322 has 45 MA's), (73, 38334), (83, 38355), (97, 38415), (106, 38439), (127, 38523), (137, 38565), (155, 38646), (170, 38703), (177, 38727), (179, 38730), (181, 38736),

Gene: Poland_37 Start: 39593, Stop: 40060, Start Num: 66
Candidate Starts for Poland_37:
(Start: 41 @39539 has 20 MA's), (Start: 66 @39593 has 45 MA's), (73, 39605), (83, 39626), (97, 39686), (106, 39710), (127, 39794), (139, 39845), (141, 39857), (155, 39917), (170, 39974), (181, 40007), (184, 40022),

Gene: Polly_21 Start: 20514, Stop: 20870, Start Num: 87
Candidate Starts for Polly_21:
(32, 20373), (35, 20379), (48, 20448), (Start: 87 @20514 has 25 MA's), (100, 20574), (104, 20583), (128, 20673), (139, 20721), (140, 20724), (141, 20733), (156, 20793),

Gene: Predator_37 Start: 31599, Stop: 32036, Start Num: 60
Candidate Starts for Predator_37:
(Start: 60 @31599 has 32 MA's), (Start: 67 @31611 has 1 MA's), (Start: 80 @31635 has 1 MA's), (101, 31719), (102, 31722), (106, 31728), (124, 31800), (127, 31812), (128, 31815), (145, 31890), (150, 31908), (152, 31923), (162, 31959), (171, 31995),

Gene: Prithvi_32 Start: 27310, Stop: 27750, Start Num: 54
Candidate Starts for Prithvi_32:
(20, 27073), (34, 27247), (Start: 54 @27310 has 131 MA's), (Start: 71 @27340 has 3 MA's), (75, 27346), (Start: 78 @27352 has 4 MA's), (83, 27364), (94, 27412), (98, 27430), (109, 27457), (121, 27511), (124, 27520), (137, 27574), (155, 27652), (164, 27685), (187, 27742),

Gene: Psycho_32 Start: 27959, Stop: 28366, Start Num: 71
Candidate Starts for Psycho_32:
(Start: 44 @27914 has 16 MA's), (Start: 46 @27917 has 6 MA's), (Start: 71 @27959 has 3 MA's), (Start: 78 @27971 has 4 MA's), (83, 27983), (94, 28031), (97, 28043), (98, 28049), (106, 28067), (109, 28076), (124, 28139), (128, 28154), (137, 28193), (139, 28202), (141, 28214), (154, 28268), (155, 28271), (161, 28292), (164, 28304),

Gene: Puissant_36 Start: 32872, Stop: 33333, Start Num: 60

Candidate Starts for Puissant_36:
(Start: 60 @32872 has 32 MA's), (65, 32881), (Start: 80 @32908 has 1 MA's), (101, 32992), (102, 32995), (106, 33001), (108, 33007), (111, 33016), (113, 33025), (128, 33088), (129, 33091), (136, 33127), (150, 33181), (162, 33232), (171, 33268),

Gene: Pupper_173 Start: 126534, Stop: 126953, Start Num: 63
Candidate Starts for Pupper_173:
(Start: 63 @126534 has 4 MA's), (102, 126648), (107, 126657), (139, 126789), (145, 126813), (157, 126864), (161, 126876), (164, 126888),

Gene: Qhanda_34 Start: 28480, Stop: 28878, Start Num: 72
Candidate Starts for Qhanda_34:
(Start: 72 @28480 has 23 MA's), (83, 28501), (86, 28510), (110, 28597), (114, 28612), (128, 28672), (130, 28678), (134, 28696), (139, 28720), (144, 28741), (148, 28753), (150, 28762), (152, 28777), (158, 28798), (174, 28858),

Gene: QuincyRose_31 Start: 27357, Stop: 27806, Start Num: 54
Candidate Starts for QuincyRose_31:
(20, 27120), (34, 27294), (Start: 54 @27357 has 131 MA's), (Start: 71 @27387 has 3 MA's), (75, 27393), (Start: 78 @27399 has 4 MA's), (83, 27411), (94, 27459), (98, 27477), (109, 27504), (121, 27558), (124, 27567), (137, 27621), (141, 27642), (155, 27699),

Gene: Ramen_32 Start: 27343, Stop: 27783, Start Num: 54
Candidate Starts for Ramen_32:
(19, 27094), (34, 27280), (Start: 54 @27343 has 131 MA's), (Start: 71 @27373 has 3 MA's), (75, 27379), (Start: 78 @27385 has 4 MA's), (83, 27397), (94, 27445), (98, 27463), (109, 27490), (121, 27544), (124, 27553), (136, 27604), (137, 27607), (155, 27685), (164, 27718), (187, 27775),

Gene: Rando14_32 Start: 26763, Stop: 27212, Start Num: 44
Candidate Starts for Rando14_32:
(Start: 44 @26763 has 16 MA's), (Start: 71 @26808 has 3 MA's), (73, 26811), (Start: 78 @26820 has 4 MA's), (83, 26832), (95, 26886), (98, 26898), (106, 26916), (109, 26925), (121, 26979), (124, 26988), (128, 27003), (137, 27042), (139, 27051), (140, 27054), (141, 27063), (154, 27117), (155, 27120), (161, 27141), (164, 27153),

Gene: Rapunzel97_32 Start: 27344, Stop: 27784, Start Num: 54
Candidate Starts for Rapunzel97_32:
(20, 27107), (34, 27281), (Start: 54 @27344 has 131 MA's), (Start: 71 @27374 has 3 MA's), (75, 27380), (Start: 78 @27386 has 4 MA's), (83, 27398), (94, 27446), (98, 27464), (109, 27491), (121, 27545), (136, 27605), (137, 27608), (141, 27629), (155, 27686), (164, 27719), (187, 27776),

Gene: RemRem_33 Start: 37408, Stop: 37875, Start Num: 66
Candidate Starts for RemRem_33:
(Start: 41 @37354 has 20 MA's), (Start: 66 @37408 has 45 MA's), (73, 37420), (83, 37441), (106, 37525), (127, 37609), (139, 37660), (141, 37672), (155, 37732), (170, 37789), (181, 37822), (184, 37837),

Gene: Reptar3000_33 Start: 28193, Stop: 28591, Start Num: 72
Candidate Starts for Reptar3000_33:
(Start: 72 @28193 has 23 MA's), (83, 28214), (86, 28223), (110, 28310), (113, 28322), (124, 28370), (128, 28385), (130, 28391), (134, 28409), (139, 28433), (144, 28454), (152, 28490), (157, 28508), (158, 28511), (174, 28571),

Gene: Richo_32 Start: 26622, Stop: 27086, Start Num: 54
Candidate Starts for Richo_32:
(29, 26496), (30, 26523), (Start: 54 @26622 has 131 MA's), (Start: 71 @26652 has 3 MA's), (75, 26658), (Start: 78 @26664 has 4 MA's), (83, 26676), (94, 26724), (97, 26736), (109, 26769), (110, 26772), (121, 26823), (137, 26886), (141, 26907), (146, 26922), (152, 26952), (155, 26964), (159, 26976),

Gene: RobinSparkles_33 Start: 36069, Stop: 36452, Start Num: 84
Candidate Starts for RobinSparkles_33:
(Start: 84 @36069 has 30 MA's), (110, 36165), (140, 36291), (144, 36309), (150, 36330),

Gene: Rosmarinus_32 Start: 27365, Stop: 27805, Start Num: 54
Candidate Starts for Rosmarinus_32:
(34, 27302), (Start: 54 @27365 has 131 MA's), (Start: 71 @27395 has 3 MA's), (75, 27401), (Start: 78 @27407 has 4 MA's), (83, 27419), (94, 27467), (98, 27485), (109, 27512), (121, 27566), (124, 27575), (137, 27629), (141, 27650), (155, 27707), (164, 27740), (187, 27797),

Gene: RoyalG_33 Start: 37836, Stop: 38348, Start Num: 41
Candidate Starts for RoyalG_33:
(Start: 41 @37836 has 20 MA's), (Start: 66 @37890 has 45 MA's), (73, 37902), (83, 37923), (99, 37992), (106, 38007), (127, 38091), (155, 38214), (170, 38271), (177, 38295),

Gene: Ruthiejr_34 Start: 28349, Stop: 28747, Start Num: 72
Candidate Starts for Ruthiejr_34:
(Start: 72 @28349 has 23 MA's), (83, 28370), (86, 28379), (110, 28466), (114, 28481), (128, 28541), (130, 28547), (134, 28565), (139, 28589), (144, 28610), (148, 28622), (150, 28631), (152, 28646), (174, 28727),

Gene: SCentae_172 Start: 126727, Stop: 127146, Start Num: 63
Candidate Starts for SCentae_172:
(Start: 63 @126727 has 4 MA's), (102, 126841), (107, 126850), (139, 126982), (145, 127006), (157, 127057), (161, 127069), (164, 127081),

Gene: Sam12_32 Start: 37354, Stop: 37875, Start Num: 41
Candidate Starts for Sam12_32:
(Start: 41 @37354 has 20 MA's), (Start: 66 @37408 has 45 MA's), (73, 37420), (83, 37441), (106, 37525), (127, 37609), (139, 37660), (141, 37672), (155, 37732), (170, 37789), (181, 37822), (184, 37837),

Gene: SamScheppers_33 Start: 28862, Stop: 29260, Start Num: 72
Candidate Starts for SamScheppers_33:
(31, 28742), (Start: 72 @28862 has 23 MA's), (83, 28883), (86, 28892), (110, 28979), (114, 28994), (128, 29054), (130, 29060), (134, 29078), (139, 29102), (144, 29123), (148, 29135), (150, 29144), (152, 29159), (174, 29240),

Gene: SamuelLPlaqson_32 Start: 27266, Stop: 27706, Start Num: 54
Candidate Starts for SamuelLPlaqson_32:
(Start: 44 @27251 has 16 MA's), (Start: 54 @27266 has 131 MA's), (Start: 71 @27296 has 3 MA's), (75, 27302), (Start: 78 @27308 has 4 MA's), (83, 27320), (94, 27368), (98, 27386), (109, 27413), (121, 27467), (124, 27476), (137, 27530), (155, 27608), (164, 27641), (187, 27698), (188, 27701),

Gene: Sbash_27 Start: 25423, Stop: 25824, Start Num: 81
Candidate Starts for Sbash_27:

(Start: 81 @25423 has 4 MA's), (102, 25498), (104, 25501), (122, 25564), (139, 25633), (148, 25666), (150, 25675), (164, 25735), (167, 25750), (178, 25780), (190, 25816),

Gene: Scarlett_31 Start: 26447, Stop: 26902, Start Num: 54
Candidate Starts for Scarlett_31:
(Start: 54 @26447 has 131 MA's), (Start: 71 @26477 has 3 MA's), (73, 26480), (Start: 84 @26504 has 30 MA's), (98, 26567), (109, 26594), (110, 26597), (121, 26648), (137, 26711), (155, 26789), (159, 26801), (160, 26807),

Gene: Settecandela_222 Start: 141538, Stop: 141927, Start Num: 81
Candidate Starts for Settecandela_222:
(Start: 81 @141538 has 4 MA's), (104, 141619), (108, 141628), (109, 141631), (124, 141688), (133, 141721), (144, 141772), (145, 141775), (148, 141784), (151, 141802), (153, 141814), (164, 141853),

Gene: SgtBeansprout_28 Start: 26747, Stop: 27205, Start Num: 54
Candidate Starts for SgtBeansprout_28:
(24, 26528), (Start: 54 @26747 has 131 MA's), (Start: 71 @26777 has 3 MA's), (75, 26783), (83, 26801), (97, 26861), (106, 26885), (109, 26894), (110, 26897), (113, 26909), (121, 26948), (124, 26957), (125, 26960), (137, 27011), (141, 27032), (146, 27047), (155, 27089), (159, 27101),

Gene: Shadow1_31 Start: 26476, Stop: 26940, Start Num: 54
Candidate Starts for Shadow1_31:
(Start: 54 @26476 has 131 MA's), (Start: 66 @26497 has 45 MA's), (Start: 71 @26506 has 3 MA's), (73, 26509), (85, 26536), (97, 26590), (98, 26596), (109, 26623), (121, 26677), (137, 26740), (141, 26761), (155, 26818), (159, 26830),

Gene: Shaobing_32 Start: 26622, Stop: 27086, Start Num: 54
Candidate Starts for Shaobing_32:
(29, 26496), (30, 26523), (Start: 54 @26622 has 131 MA's), (Start: 71 @26652 has 3 MA's), (75, 26658), (Start: 78 @26664 has 4 MA's), (83, 26676), (94, 26724), (97, 26736), (109, 26769), (110, 26772), (121, 26823), (137, 26886), (141, 26907), (146, 26922), (152, 26952), (155, 26964), (159, 26976),

Gene: ShawBrad_24 Start: 20207, Stop: 20581, Start Num: 87
Candidate Starts for ShawBrad_24:
(Start: 84 @20201 has 30 MA's), (Start: 87 @20207 has 25 MA's), (99, 20264), (100, 20267), (104, 20276), (124, 20351), (130, 20372), (139, 20414), (140, 20417), (164, 20516),

Gene: ShedlockHolmes_33 Start: 28259, Stop: 28705, Start Num: 54
Candidate Starts for ShedlockHolmes_33:
(43, 28226), (Start: 54 @28259 has 131 MA's), (Start: 71 @28289 has 3 MA's), (98, 28379), (109, 28406), (110, 28409), (117, 28445), (121, 28460), (137, 28523), (144, 28553), (155, 28601),

Gene: Shelley_33 Start: 39168, Stop: 39605, Start Num: 66
Candidate Starts for Shelley_33:
(Start: 41 @39114 has 20 MA's), (Start: 66 @39168 has 45 MA's), (73, 39180), (83, 39201), (97, 39261), (104, 39282), (140, 39423), (155, 39492),

Gene: ShiaSurprise_32 Start: 27377, Stop: 27817, Start Num: 54
Candidate Starts for ShiaSurprise_32:
(34, 27314), (Start: 54 @27377 has 131 MA's), (Start: 71 @27407 has 3 MA's), (75, 27413), (Start: 78 @27419 has 4 MA's), (83, 27431), (94, 27479), (98, 27497), (109, 27524), (121, 27578), (124, 27587), (136, 27638), (137, 27641), (141, 27662), (155, 27719), (164, 27752), (187, 27809),

Gene: Sidious_22 Start: 20529, Stop: 20909, Start Num: 87
Candidate Starts for Sidious_22:
(Start: 87 @20529 has 25 MA's), (104, 20598), (124, 20673), (156, 20808), (158, 20814), (176, 20883),

Gene: SirPhilip_31 Start: 26116, Stop: 26580, Start Num: 53
Candidate Starts for SirPhilip_31:
(Start: 53 @26116 has 12 MA's), (Start: 71 @26146 has 3 MA's), (73, 26149), (Start: 84 @26173 has 30 MA's), (97, 26230), (98, 26236), (109, 26263), (110, 26266), (121, 26317), (137, 26380), (155, 26458), (159, 26470), (160, 26476), (189, 26569),

Gene: Skog_5 Start: 3101, Stop: 3520, Start Num: 63
Candidate Starts for Skog_5:
(Start: 63 @3101 has 4 MA's), (102, 3215), (107, 3224), (139, 3356), (145, 3380), (157, 3431), (161, 3443), (164, 3455),

Gene: Slarp_33 Start: 28471, Stop: 28869, Start Num: 72
Candidate Starts for Slarp_33:
(Start: 72 @28471 has 23 MA's), (83, 28492), (86, 28501), (110, 28588), (114, 28603), (128, 28663), (130, 28669), (134, 28687), (139, 28711), (144, 28732), (148, 28744), (150, 28753), (152, 28768), (158, 28789), (174, 28849),

Gene: Slimphazie_32 Start: 27344, Stop: 27784, Start Num: 54
Candidate Starts for Slimphazie_32:
(20, 27107), (34, 27281), (Start: 54 @27344 has 131 MA's), (Start: 71 @27374 has 3 MA's), (75, 27380), (Start: 78 @27386 has 4 MA's), (83, 27398), (94, 27446), (98, 27464), (109, 27491), (121, 27545), (136, 27605), (137, 27608), (141, 27629), (155, 27686), (164, 27719), (187, 27776),

Gene: Smoothie_53 Start: 33369, Stop: 33776, Start Num: 88
Candidate Starts for Smoothie_53:
(Start: 88 @33369 has 27 MA's), (102, 33432), (104, 33435), (132, 33537), (155, 33648), (166, 33690), (191, 33765),

Gene: SoSeph_31 Start: 28061, Stop: 28513, Start Num: 44
Candidate Starts for SoSeph_31:
(Start: 44 @28061 has 16 MA's), (Start: 71 @28106 has 3 MA's), (Start: 78 @28118 has 4 MA's), (83, 28130), (94, 28178), (97, 28190), (98, 28196), (109, 28223), (110, 28226), (121, 28277), (124, 28286), (128, 28301), (137, 28340), (141, 28361), (154, 28415), (155, 28418), (164, 28451),

Gene: Sombrero_32 Start: 37356, Stop: 37877, Start Num: 41
Candidate Starts for Sombrero_32:
(Start: 41 @37356 has 20 MA's), (Start: 66 @37410 has 45 MA's), (73, 37422), (83, 37443), (99, 37512), (106, 37527), (127, 37611), (139, 37662), (141, 37674), (155, 37734), (170, 37791), (181, 37824), (184, 37839),

Gene: Sparky_28 Start: 26721, Stop: 27113, Start Num: 84
Candidate Starts for Sparky_28:
(Start: 84 @26721 has 30 MA's), (102, 26787), (104, 26790), (122, 26853), (139, 26922), (144, 26943), (148, 26955), (150, 26964), (164, 27024), (167, 27039), (178, 27069), (190, 27105),

Gene: SpeedDemon_350 Start: 32425, Stop: 32838, Start Num: 84
Candidate Starts for SpeedDemon_350:
(Start: 84 @32425 has 30 MA's), (109, 32515), (114, 32533), (134, 32617), (159, 32728),

Gene: Spock_32 Start: 27377, Stop: 27817, Start Num: 54
Candidate Starts for Spock_32:
(34, 27314), (Start: 54 @27377 has 131 MA's), (Start: 71 @27407 has 3 MA's), (75, 27413), (Start: 78 @27419 has 4 MA's), (83, 27431), (94, 27479), (98, 27497), (109, 27524), (121, 27578), (124, 27587), (137, 27641), (141, 27662), (155, 27719), (164, 27752), (187, 27809),

Gene: Spooky_24 Start: 20292, Stop: 20663, Start Num: 87
Candidate Starts for Spooky_24:
(4, 19797), (13, 19908), (15, 19926), (Start: 84 @20286 has 30 MA's), (Start: 87 @20292 has 25 MA's), (99, 20349), (104, 20361), (124, 20436), (139, 20499), (140, 20502), (146, 20526), (156, 20571), (157, 20574),

Gene: Squibbles_32 Start: 38217, Stop: 38738, Start Num: 41
Candidate Starts for Squibbles_32:
(Start: 41 @38217 has 20 MA's), (Start: 66 @38271 has 45 MA's), (73, 38283), (83, 38304), (106, 38388), (127, 38472), (139, 38523), (141, 38535), (155, 38595), (170, 38652), (181, 38685), (184, 38700),

Gene: Squiddly_26 Start: 21704, Stop: 22075, Start Num: 87
Candidate Starts for Squiddly_26:
(4, 21209), (13, 21320), (15, 21338), (Start: 84 @21698 has 30 MA's), (Start: 87 @21704 has 25 MA's), (99, 21761), (104, 21773), (124, 21848), (139, 21911), (140, 21914), (146, 21938), (156, 21983), (157, 21986),

Gene: SteveFrench_32 Start: 38130, Stop: 38588, Start Num: 66
Candidate Starts for SteveFrench_32:
(Start: 41 @38076 has 20 MA's), (Start: 66 @38130 has 45 MA's), (73, 38142), (83, 38163), (99, 38232), (106, 38247), (127, 38331), (155, 38454), (170, 38511), (177, 38535),

Gene: Sticker17_33 Start: 39683, Stop: 40120, Start Num: 66
Candidate Starts for Sticker17_33:
(Start: 41 @39629 has 20 MA's), (Start: 66 @39683 has 45 MA's), (73, 39695), (83, 39716), (97, 39776), (104, 39797), (140, 39938), (155, 40007),

Gene: Stinson_33 Start: 27579, Stop: 28019, Start Num: 54
Candidate Starts for Stinson_33:
(20, 27342), (Start: 54 @27579 has 131 MA's), (Start: 71 @27609 has 3 MA's), (75, 27615), (Start: 78 @27621 has 4 MA's), (83, 27633), (94, 27681), (98, 27699), (109, 27726), (117, 27765), (121, 27780), (124, 27789), (137, 27843), (155, 27921), (164, 27954), (187, 28011),

Gene: Strobilo_30 Start: 26001, Stop: 26387, Start Num: 88
Candidate Starts for Strobilo_30:
(Start: 88 @26001 has 27 MA's), (Start: 89 @26004 has 4 MA's), (91, 26013), (107, 26076), (109, 26082), (112, 26091), (113, 26097), (116, 26118), (119, 26127), (121, 26136), (124, 26145), (139, 26208), (144, 26229), (149, 26247), (150, 26250),

Gene: Stuck_31 Start: 25768, Stop: 26169, Start Num: 81
Candidate Starts for Stuck_31:
(Start: 81 @25768 has 4 MA's), (102, 25843), (104, 25846), (122, 25909), (139, 25978), (148, 26011), (150, 26020), (164, 26080), (167, 26095), (178, 26125), (190, 26161),

Gene: Sulley_32 Start: 27310, Stop: 27750, Start Num: 54

Candidate Starts for Sulley_32:
(34, 27247), (Start: 54 @27310 has 131 MA's), (Start: 71 @27340 has 3 MA's), (75, 27346), (Start: 78 @27352 has 4 MA's), (83, 27364), (94, 27412), (98, 27430), (109, 27457), (121, 27511), (124, 27520), (137, 27574), (141, 27595), (155, 27652), (164, 27685), (187, 27742),

Gene: Sunflower1121_31 Start: 26488, Stop: 26952, Start Num: 54
Candidate Starts for Sunflower1121_31:
(Start: 54 @26488 has 131 MA's), (Start: 66 @26509 has 45 MA's), (Start: 71 @26518 has 3 MA's), (73, 26521), (85, 26548), (97, 26602), (98, 26608), (109, 26635), (121, 26689), (137, 26752), (141, 26773), (155, 26830), (159, 26842), (177, 26905),

Gene: SushiChef_24 Start: 21273, Stop: 21629, Start Num: 87
Candidate Starts for SushiChef_24:
(Start: 87 @21273 has 25 MA's), (100, 21333), (104, 21342), (124, 21417), (139, 21480), (141, 21492), (156, 21552),

Gene: Syra333_32 Start: 26498, Stop: 26962, Start Num: 54
Candidate Starts for Syra333_32:
(Start: 54 @26498 has 131 MA's), (Start: 66 @26519 has 45 MA's), (Start: 71 @26528 has 3 MA's), (73, 26531), (85, 26558), (97, 26612), (98, 26618), (109, 26645), (121, 26699), (137, 26762), (141, 26783), (155, 26840), (159, 26852),

Gene: TBond007_32 Start: 27736, Stop: 28182, Start Num: 54
Candidate Starts for TBond007_32:
(43, 27703), (Start: 54 @27736 has 131 MA's), (Start: 71 @27766 has 3 MA's), (98, 27856), (109, 27883), (110, 27886), (117, 27922), (121, 27937), (137, 28000), (144, 28030), (152, 28066), (155, 28078),

Gene: TClif_33 Start: 27061, Stop: 27525, Start Num: 52
Candidate Starts for TClif_33:
(Start: 52 @27061 has 1 MA's), (Start: 71 @27091 has 3 MA's), (73, 27094), (Start: 78 @27103 has 4 MA's), (83, 27115), (85, 27121), (98, 27181), (109, 27208), (110, 27211), (121, 27262), (137, 27325), (155, 27403),

Gene: TM4_31 Start: 26207, Stop: 26593, Start Num: 88
Candidate Starts for TM4_31:
(Start: 88 @26207 has 27 MA's), (Start: 89 @26210 has 4 MA's), (91, 26219), (94, 26243), (107, 26282), (109, 26288), (112, 26297), (113, 26303), (116, 26324), (119, 26333), (121, 26342), (124, 26351), (139, 26414), (144, 26435), (149, 26453), (150, 26456),

Gene: TPA4_33 Start: 29799, Stop: 30185, Start Num: 89
Candidate Starts for TPA4_33:
(25, 29538), (42, 29694), (86, 29793), (Start: 89 @29799 has 4 MA's), (127, 29949), (131, 29961), (134, 29976), (139, 30006), (155, 30075), (158, 30084), (168, 30123),

Gene: Tachez_32 Start: 27306, Stop: 27746, Start Num: 54
Candidate Starts for Tachez_32:
(20, 27069), (34, 27243), (Start: 54 @27306 has 131 MA's), (Start: 71 @27336 has 3 MA's), (75, 27342), (Start: 78 @27348 has 4 MA's), (83, 27360), (94, 27408), (98, 27426), (109, 27453), (121, 27507), (136, 27567), (137, 27570), (141, 27591), (155, 27648), (164, 27681), (187, 27738),

Gene: TaiwanKao_33 Start: 27310, Stop: 27750, Start Num: 54
Candidate Starts for TaiwanKao_33:

(20, 27073), (34, 27247), (Start: 54 @27310 has 131 MA's), (Start: 71 @27340 has 3 MA's), (75, 27346), (Start: 78 @27352 has 4 MA's), (83, 27364), (94, 27412), (98, 27430), (109, 27457), (121, 27511), (124, 27520), (137, 27574), (155, 27652), (164, 27685), (187, 27742),

Gene: Taquito_33 Start: 28909, Stop: 29307, Start Num: 72
Candidate Starts for Taquito_33:
(31, 28789), (Start: 72 @28909 has 23 MA's), (83, 28930), (86, 28939), (110, 29026), (114, 29041), (128, 29101), (130, 29107), (134, 29125), (139, 29149), (144, 29170), (148, 29182), (150, 29191), (152, 29206), (158, 29227), (174, 29287),

Gene: Teal_33 Start: 40151, Stop: 40588, Start Num: 66
Candidate Starts for Teal_33:
(Start: 41 @40097 has 20 MA's), (Start: 66 @40151 has 45 MA's), (73, 40163), (83, 40184), (97, 40244), (104, 40265), (140, 40406), (155, 40475),

Gene: Teatealatte_31 Start: 39000, Stop: 39434, Start Num: 70
Candidate Starts for Teatealatte_31:
(Start: 70 @39000 has 10 MA's), (83, 39021), (91, 39039), (96, 39072), (136, 39222), (140, 39237), (143, 39255), (147, 39267), (155, 39303), (157, 39309), (177, 39384),

Gene: Teech_31 Start: 38801, Stop: 39235, Start Num: 70
Candidate Starts for Teech_31:
(Start: 70 @38801 has 10 MA's), (83, 38822), (91, 38840), (96, 38873), (136, 39023), (140, 39038), (143, 39056), (147, 39068), (155, 39104), (157, 39110), (177, 39185),

Gene: Teejan_28 Start: 26747, Stop: 27205, Start Num: 54
Candidate Starts for Teejan_28:
(24, 26528), (Start: 54 @26747 has 131 MA's), (Start: 71 @26777 has 3 MA's), (75, 26783), (83, 26801), (97, 26861), (106, 26885), (109, 26894), (110, 26897), (113, 26909), (121, 26948), (124, 26957), (125, 26960), (137, 27011), (141, 27032), (146, 27047), (155, 27089), (159, 27101),

Gene: ThankyouJordi_21 Start: 21049, Stop: 21405, Start Num: 87
Candidate Starts for ThankyouJordi_21:
(Start: 87 @21049 has 25 MA's), (100, 21109), (156, 21328),

Gene: Thumb_35 Start: 32380, Stop: 32841, Start Num: 60
Candidate Starts for Thumb_35:
(Start: 60 @32380 has 32 MA's), (Start: 67 @32392 has 1 MA's), (Start: 80 @32416 has 1 MA's), (90, 32443), (101, 32500), (102, 32503), (106, 32509), (108, 32515), (111, 32524), (113, 32533), (115, 32551), (128, 32596), (129, 32599), (136, 32635), (145, 32671), (150, 32689), (162, 32740), (171, 32776),

Gene: Thyatira_31 Start: 27915, Stop: 28367, Start Num: 44
Candidate Starts for Thyatira_31:
(Start: 44 @27915 has 16 MA's), (Start: 71 @27960 has 3 MA's), (Start: 78 @27972 has 4 MA's), (83, 27984), (94, 28032), (97, 28044), (98, 28050), (109, 28077), (121, 28131), (124, 28140), (128, 28155), (137, 28194), (141, 28215), (154, 28269), (155, 28272), (164, 28305),

Gene: Tierra_32 Start: 27324, Stop: 27788, Start Num: 54
Candidate Starts for Tierra_32:
(Start: 54 @27324 has 131 MA's), (Start: 66 @27345 has 45 MA's), (Start: 71 @27354 has 3 MA's), (73, 27357), (85, 27384), (97, 27438), (98, 27444), (109, 27471), (121, 27525), (140, 27600), (155, 27666), (177, 27741),

Gene: Tigress9_32 Start: 26494, Stop: 26958, Start Num: 54
Candidate Starts for Tigress9_32:
(Start: 54 @26494 has 131 MA's), (Start: 66 @26515 has 45 MA's), (Start: 71 @26524 has 3 MA's), (73, 26527), (97, 26608), (98, 26614), (109, 26641), (121, 26695), (137, 26758), (141, 26779), (155, 26836), (159, 26848),

Gene: TimTam_22 Start: 21074, Stop: 21430, Start Num: 87
Candidate Starts for TimTam_22:
(Start: 87 @21074 has 25 MA's), (100, 21134), (104, 21143), (124, 21218), (139, 21281), (141, 21293), (156, 21353),

Gene: TingHuaYa_32 Start: 26466, Stop: 26918, Start Num: 54
Candidate Starts for TingHuaYa_32:
(16, 26208), (29, 26343), (34, 26403), (Start: 54 @26466 has 131 MA's), (Start: 71 @26496 has 3 MA's), (75, 26502), (Start: 78 @26508 has 4 MA's), (83, 26520), (94, 26568), (97, 26580), (109, 26613), (110, 26616), (121, 26667), (137, 26730), (139, 26739), (141, 26751), (155, 26808),

Gene: TiniBug_32 Start: 27262, Stop: 27702, Start Num: 54
Candidate Starts for TiniBug_32:
(8, 26935), (34, 27199), (Start: 54 @27262 has 131 MA's), (Start: 71 @27292 has 3 MA's), (75, 27298), (Start: 78 @27304 has 4 MA's), (83, 27316), (94, 27364), (98, 27382), (109, 27409), (121, 27463), (124, 27472), (137, 27526), (155, 27604), (164, 27637), (187, 27694),

Gene: Tiri_32 Start: 27349, Stop: 27798, Start Num: 54
Candidate Starts for Tiri_32:
(20, 27112), (34, 27286), (Start: 54 @27349 has 131 MA's), (Start: 71 @27379 has 3 MA's), (75, 27385), (Start: 78 @27391 has 4 MA's), (83, 27403), (94, 27451), (98, 27469), (109, 27496), (121, 27550), (124, 27559), (137, 27613), (141, 27634), (155, 27691), (187, 27790),

Gene: Toniann_51 Start: 32856, Stop: 33263, Start Num: 88
Candidate Starts for Toniann_51:
(Start: 88 @32856 has 27 MA's), (102, 32919), (104, 32922), (132, 33024), (155, 33135), (166, 33177), (191, 33252),

Gene: Topper_32 Start: 27377, Stop: 27817, Start Num: 54
Candidate Starts for Topper_32:
(34, 27314), (Start: 54 @27377 has 131 MA's), (Start: 71 @27407 has 3 MA's), (75, 27413), (Start: 78 @27419 has 4 MA's), (83, 27431), (94, 27479), (98, 27497), (109, 27524), (121, 27578), (124, 27587), (137, 27641), (141, 27662), (155, 27719), (164, 27752), (187, 27809),

Gene: Torres_28 Start: 26747, Stop: 27205, Start Num: 54
Candidate Starts for Torres_28:
(24, 26528), (Start: 54 @26747 has 131 MA's), (Start: 71 @26777 has 3 MA's), (75, 26783), (83, 26801), (97, 26861), (106, 26885), (109, 26894), (110, 26897), (113, 26909), (121, 26948), (124, 26957), (125, 26960), (137, 27011), (141, 27032), (146, 27047), (155, 27089), (159, 27101),

Gene: Towmatter_31 Start: 28924, Stop: 29334, Start Num: 84
Candidate Starts for Towmatter_31:
(Start: 84 @28924 has 30 MA's), (116, 29050), (150, 29185), (173, 29284),

Gene: Tredge_31 Start: 39000, Stop: 39434, Start Num: 70
Candidate Starts for Tredge_31:

(Start: 70 @39000 has 10 MA's), (83, 39021), (91, 39039), (96, 39072), (136, 39222), (140, 39237), (143, 39255), (147, 39267), (155, 39303), (157, 39309), (177, 39384),

Gene: TreyKay_32 Start: 27310, Stop: 27750, Start Num: 54
Candidate Starts for TreyKay_32:
(20, 27073), (34, 27247), (Start: 54 @27310 has 131 MA's), (Start: 71 @27340 has 3 MA's), (75, 27346), (Start: 78 @27352 has 4 MA's), (83, 27364), (94, 27412), (98, 27430), (109, 27457), (121, 27511), (124, 27520), (137, 27574), (155, 27652), (164, 27685), (187, 27742),

Gene: TribleTrouble_31 Start: 27787, Stop: 28239, Start Num: 54
Candidate Starts for TribleTrouble_31:
(43, 27754), (Start: 54 @27787 has 131 MA's), (Start: 71 @27817 has 3 MA's), (98, 27907), (109, 27934), (110, 27937), (117, 27973), (121, 27988), (137, 28051), (141, 28072), (155, 28129), (164, 28162),

Gene: Trice_28 Start: 26747, Stop: 27205, Start Num: 54
Candidate Starts for Trice_28:
(24, 26528), (Start: 54 @26747 has 131 MA's), (Start: 71 @26777 has 3 MA's), (75, 26783), (83, 26801), (97, 26861), (106, 26885), (109, 26894), (110, 26897), (113, 26909), (121, 26948), (124, 26957), (125, 26960), (137, 27011), (141, 27032), (146, 27047), (155, 27089), (159, 27101),

Gene: TruffulaTree_32 Start: 27340, Stop: 27780, Start Num: 54
Candidate Starts for TruffulaTree_32:
(34, 27277), (Start: 54 @27340 has 131 MA's), (Start: 71 @27370 has 3 MA's), (75, 27376), (Start: 78 @27382 has 4 MA's), (83, 27394), (94, 27442), (98, 27460), (109, 27487), (121, 27541), (136, 27601), (137, 27604), (141, 27625), (155, 27682), (164, 27715), (187, 27772),

Gene: Twitch_32 Start: 27377, Stop: 27817, Start Num: 54
Candidate Starts for Twitch_32:
(34, 27314), (Start: 54 @27377 has 131 MA's), (Start: 71 @27407 has 3 MA's), (75, 27413), (Start: 78 @27419 has 4 MA's), (83, 27431), (94, 27479), (98, 27497), (109, 27524), (121, 27578), (124, 27587), (137, 27641), (141, 27662), (155, 27719), (164, 27752), (187, 27809),

Gene: Typha_33 Start: 30335, Stop: 30691, Start Num: 89
Candidate Starts for Typha_33:
(33, 30185), (Start: 89 @30335 has 4 MA's), (94, 30368), (110, 30416), (113, 30428), (117, 30452), (121, 30467), (127, 30488), (135, 30518), (139, 30539), (140, 30542), (155, 30608), (158, 30617), (161, 30629),

Gene: Ubuntu_34 Start: 29596, Stop: 30006, Start Num: 60
Candidate Starts for Ubuntu_34:
(Start: 60 @29596 has 32 MA's), (97, 29698), (115, 29764), (119, 29776), (122, 29788), (128, 29809), (149, 29896), (172, 29989),

Gene: Unicorn_32 Start: 26653, Stop: 27117, Start Num: 54
Candidate Starts for Unicorn_32:
(Start: 54 @26653 has 131 MA's), (Start: 66 @26674 has 45 MA's), (Start: 71 @26683 has 3 MA's), (73, 26686), (83, 26707), (85, 26713), (97, 26767), (98, 26773), (109, 26800), (137, 26917), (155, 26995), (159, 27007), (177, 27070),

Gene: Urkel_32 Start: 27266, Stop: 27706, Start Num: 54
Candidate Starts for Urkel_32:

(Start: 44 @27251 has 16 MA's), (Start: 54 @27266 has 131 MA's), (Start: 71 @27296 has 3 MA's), (75, 27302), (Start: 78 @27308 has 4 MA's), (83, 27320), (94, 27368), (98, 27386), (109, 27413), (121, 27467), (124, 27476), (137, 27530), (155, 27608), (164, 27641), (187, 27698), (188, 27701),

Gene: Validus_32 Start: 26557, Stop: 27018, Start Num: 54
Candidate Starts for Validus_32:
(Start: 54 @26557 has 131 MA's), (59, 26566), (Start: 71 @26587 has 3 MA's), (73, 26590), (75, 26593), (Start: 78 @26599 has 4 MA's), (83, 26611), (94, 26659), (97, 26671), (109, 26704), (110, 26707), (121, 26758), (137, 26821), (141, 26842), (146, 26857), (152, 26887), (155, 26899), (159, 26911),

Gene: VanLee_29 Start: 25243, Stop: 25584, Start Num: 92
Candidate Starts for VanLee_29:
(Start: 92 @25243 has 1 MA's), (104, 25297), (122, 25366), (139, 25450), (157, 25525),

Gene: Veliki_32 Start: 27380, Stop: 27820, Start Num: 54
Candidate Starts for Veliki_32:
(20, 27143), (34, 27317), (Start: 54 @27380 has 131 MA's), (Start: 71 @27410 has 3 MA's), (75, 27416), (Start: 78 @27422 has 4 MA's), (83, 27434), (94, 27482), (98, 27500), (109, 27527), (121, 27581), (136, 27641), (137, 27644), (141, 27665), (155, 27722), (164, 27755), (187, 27812),

Gene: Vitaenoii_33 Start: 40235, Stop: 40666, Start Num: 70
Candidate Starts for Vitaenoii_33:
(Start: 70 @40235 has 10 MA's), (74, 40241), (96, 40310), (98, 40319), (102, 40331), (119, 40391), (131, 40433), (136, 40460), (140, 40475), (143, 40493), (155, 40541), (159, 40553), (170, 40598),

Gene: ViviJ_30 Start: 27749, Stop: 28198, Start Num: 46
Candidate Starts for ViviJ_30:
(3, 27233), (5, 27347), (Start: 44 @27746 has 16 MA's), (Start: 46 @27749 has 6 MA's), (Start: 71 @27791 has 3 MA's), (Start: 78 @27803 has 4 MA's), (83, 27815), (94, 27863), (97, 27875), (98, 27881), (106, 27899), (109, 27908), (121, 27962), (124, 27971), (128, 27986), (137, 28025), (139, 28034), (141, 28046), (152, 28091), (154, 28100), (155, 28103), (161, 28124), (164, 28136),

Gene: Waterfoul_31 Start: 27939, Stop: 28391, Start Num: 44
Candidate Starts for Waterfoul_31:
(Start: 44 @27939 has 16 MA's), (Start: 71 @27984 has 3 MA's), (Start: 78 @27996 has 4 MA's), (83, 28008), (94, 28056), (97, 28068), (98, 28074), (109, 28101), (121, 28155), (124, 28164), (128, 28179), (137, 28218), (141, 28239), (154, 28293), (155, 28296), (164, 28329),

Gene: Webster2_34 Start: 29596, Stop: 30006, Start Num: 60
Candidate Starts for Webster2_34:
(Start: 60 @29596 has 32 MA's), (97, 29698), (115, 29764), (119, 29776), (122, 29788), (128, 29809), (149, 29896), (172, 29989),

Gene: WelcomeAyanna_21 Start: 21049, Stop: 21405, Start Num: 87
Candidate Starts for WelcomeAyanna_21:
(Start: 87 @21049 has 25 MA's), (100, 21109), (156, 21328),

Gene: Whitney_25 Start: 21106, Stop: 21480, Start Num: 87
Candidate Starts for Whitney_25:
(4, 20611), (13, 20722), (15, 20740), (Start: 84 @21100 has 30 MA's), (Start: 87 @21106 has 25 MA's), (99, 21163), (100, 21166), (104, 21175), (124, 21250), (139, 21313), (140, 21316), (141, 21325), (156, 21385), (157, 21388),

Gene: WilliamBoone_51 Start: 32208, Stop: 32615, Start Num: 88
Candidate Starts for WilliamBoone_51:
(Start: 88 @32208 has 27 MA's), (120, 32337), (121, 32340), (127, 32361), (132, 32376), (155, 32487), (166, 32529), (191, 32604),

Gene: Wintermute_33 Start: 28458, Stop: 28856, Start Num: 72
Candidate Starts for Wintermute_33:
(Start: 72 @28458 has 23 MA's), (83, 28479), (86, 28488), (110, 28575), (114, 28590), (128, 28650), (130, 28656), (134, 28674), (139, 28698), (144, 28719), (148, 28731), (150, 28740), (152, 28755), (158, 28776), (174, 28836),

Gene: Wishmaker_33 Start: 29596, Stop: 30006, Start Num: 60
Candidate Starts for Wishmaker_33:
(Start: 60 @29596 has 32 MA's), (97, 29698), (115, 29764), (119, 29776), (122, 29788), (128, 29809), (149, 29896), (172, 29989),

Gene: Woes_33 Start: 40202, Stop: 40639, Start Num: 66
Candidate Starts for Woes_33:
(Start: 41 @40148 has 20 MA's), (Start: 66 @40202 has 45 MA's), (73, 40214), (83, 40235), (97, 40295), (102, 40313), (104, 40316), (140, 40457), (155, 40526),

Gene: Worcestershire_32 Start: 37410, Stop: 37877, Start Num: 66
Candidate Starts for Worcestershire_32:
(Start: 41 @37356 has 20 MA's), (Start: 66 @37410 has 45 MA's), (73, 37422), (83, 37443), (106, 37527), (127, 37611), (139, 37662), (141, 37674), (155, 37734), (170, 37791), (181, 37824), (184, 37839),

Gene: Ximenita_33 Start: 26680, Stop: 27144, Start Num: 54
Candidate Starts for Ximenita_33:
(Start: 54 @26680 has 131 MA's), (Start: 66 @26701 has 45 MA's), (Start: 71 @26710 has 3 MA's), (73, 26713), (85, 26740), (97, 26794), (98, 26800), (109, 26827), (121, 26881), (137, 26944), (140, 26956), (155, 27022), (177, 27097),

Gene: Y10_33 Start: 28458, Stop: 28856, Start Num: 72
Candidate Starts for Y10_33:
(Start: 72 @28458 has 23 MA's), (83, 28479), (86, 28488), (110, 28575), (114, 28590), (117, 28611), (130, 28656), (134, 28674), (139, 28698), (144, 28719), (148, 28731), (150, 28740), (152, 28755), (158, 28776),

Gene: Y2_33 Start: 28458, Stop: 28856, Start Num: 72
Candidate Starts for Y2_33:
(Start: 72 @28458 has 23 MA's), (83, 28479), (86, 28488), (110, 28575), (114, 28590), (117, 28611), (130, 28656), (134, 28674), (139, 28698), (144, 28719), (148, 28731), (150, 28740), (152, 28755), (158, 28776),

Gene: YasnayaPolyana_33 Start: 28459, Stop: 28857, Start Num: 72
Candidate Starts for YasnayaPolyana_33:
(Start: 72 @28459 has 23 MA's), (83, 28480), (86, 28489), (110, 28576), (114, 28591), (130, 28657), (134, 28675), (139, 28699), (144, 28720), (148, 28732), (150, 28741), (152, 28756), (158, 28777),

Gene: YoureAdopted_31 Start: 27313, Stop: 27753, Start Num: 54
Candidate Starts for YoureAdopted_31:

(34, 27250), (Start: 54 @27313 has 131 MA's), (Start: 71 @27343 has 3 MA's), (75, 27349), (Start: 78 @27355 has 4 MA's), (83, 27367), (94, 27415), (98, 27433), (109, 27460), (121, 27514), (124, 27523), (137, 27577), (141, 27598), (155, 27655), (164, 27688), (187, 27745),

Gene: Yuna_33 Start: 27088, Stop: 27546, Start Num: 54
Candidate Starts for Yuna_33:
(Start: 54 @27088 has 131 MA's), (Start: 66 @27109 has 45 MA's), (Start: 71 @27118 has 3 MA's), (73, 27121), (83, 27142), (98, 27208), (109, 27235), (121, 27289), (127, 27310), (137, 27352), (139, 27361), (155, 27430),

Gene: Yunkel11_32 Start: 26598, Stop: 27047, Start Num: 54
Candidate Starts for Yunkel11_32:
(Start: 54 @26598 has 131 MA's), (Start: 71 @26628 has 3 MA's), (75, 26634), (Start: 78 @26640 has 4 MA's), (83, 26652), (94, 26700), (97, 26712), (109, 26745), (110, 26748), (121, 26799), (124, 26808), (137, 26862), (141, 26883), (146, 26898), (155, 26940), (188, 27039),

Gene: Zabiza_32 Start: 27344, Stop: 27784, Start Num: 54
Candidate Starts for Zabiza_32:
(20, 27107), (34, 27281), (Start: 54 @27344 has 131 MA's), (Start: 71 @27374 has 3 MA's), (75, 27380), (Start: 78 @27386 has 4 MA's), (83, 27398), (94, 27446), (98, 27464), (109, 27491), (121, 27545), (136, 27605), (137, 27608), (141, 27629), (155, 27686), (164, 27719), (187, 27776),

Gene: Zavala_32 Start: 27319, Stop: 27759, Start Num: 54
Candidate Starts for Zavala_32:
(20, 27082), (28, 27193), (34, 27256), (Start: 54 @27319 has 131 MA's), (Start: 71 @27349 has 3 MA's), (75, 27355), (Start: 78 @27361 has 4 MA's), (83, 27373), (94, 27421), (98, 27439), (109, 27466), (121, 27520), (124, 27529), (137, 27583), (141, 27604), (155, 27661), (164, 27694), (187, 27751),

Gene: Zirinka_22 Start: 21086, Stop: 21442, Start Num: 87
Candidate Starts for Zirinka_22:
(Start: 87 @21086 has 25 MA's), (100, 21146), (104, 21155), (124, 21230), (139, 21293), (141, 21305), (156, 21365),

Gene: ZoeJ_30 Start: 25982, Stop: 26392, Start Num: 88
Candidate Starts for ZoeJ_30:
(Start: 88 @25982 has 27 MA's), (Start: 89 @25985 has 4 MA's), (91, 25994), (107, 26057), (109, 26063), (112, 26072), (113, 26078), (116, 26099), (119, 26108), (120, 26114), (121, 26117), (124, 26126), (139, 26189), (144, 26210), (149, 26228), (150, 26231),