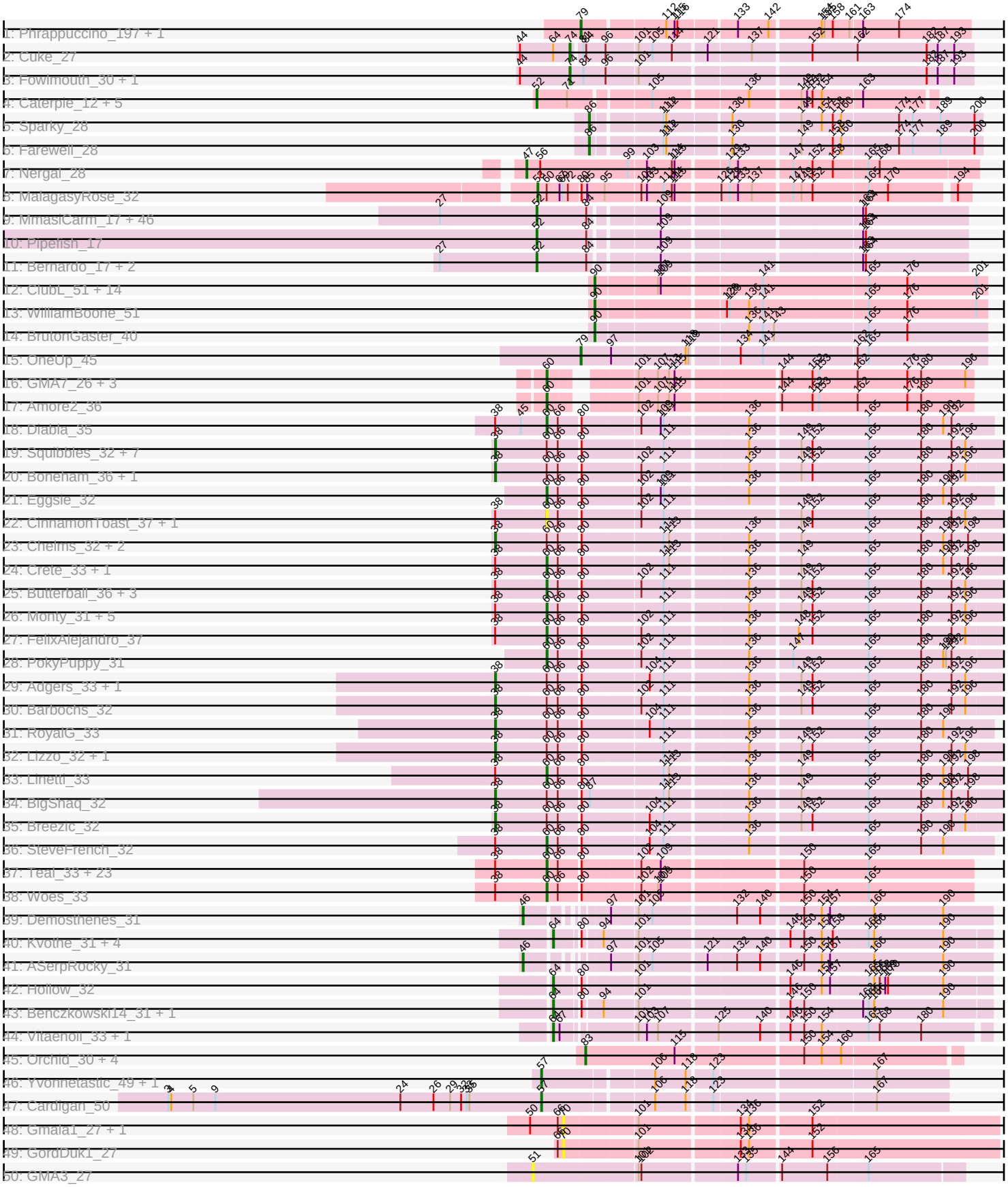
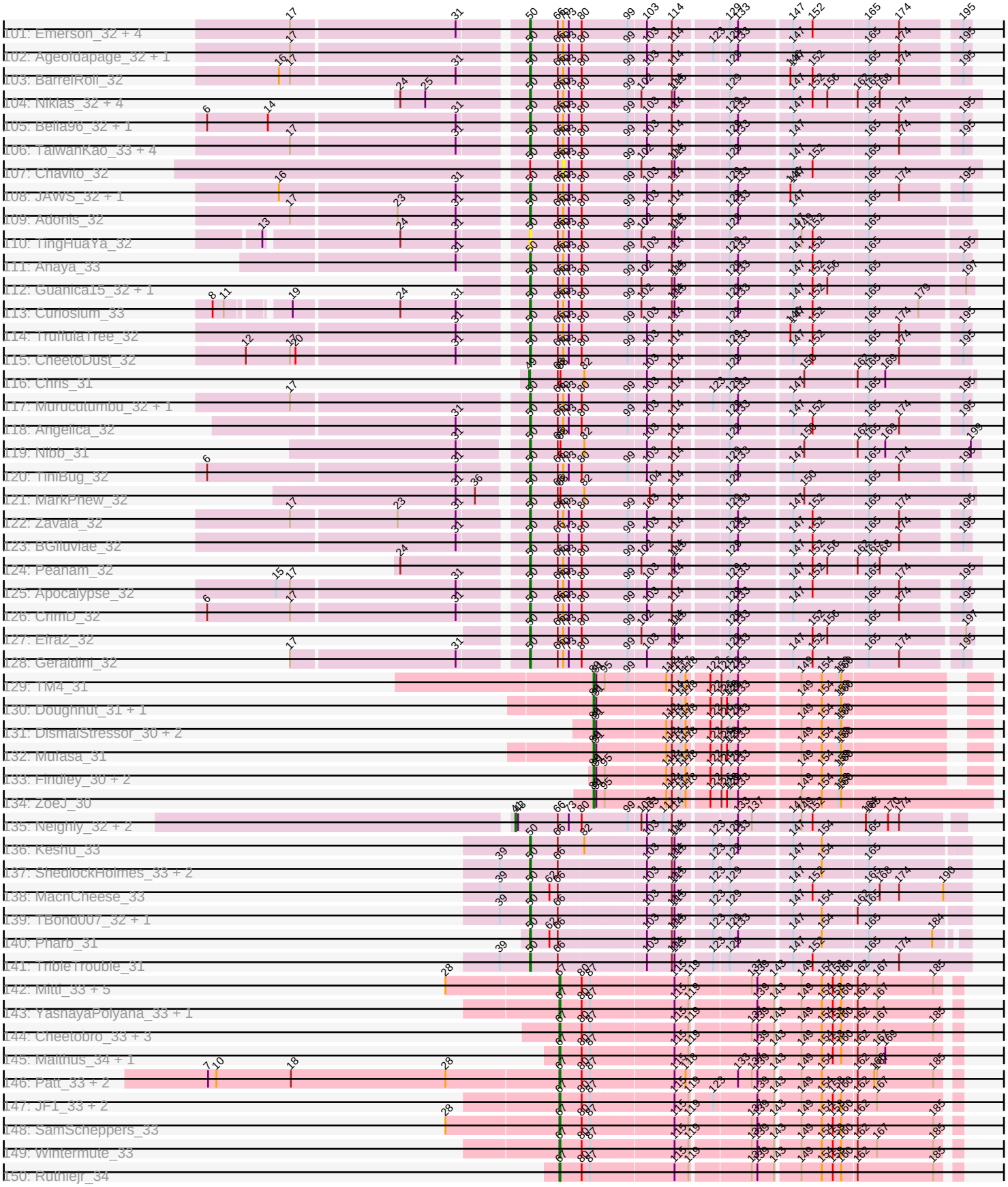
Pham 347080


1: Phrappuccino_197 + 1
2: Cuke_27
3: Fowlmouth_30 + 1
4: Caterpie_12 + 5
5: Sparky_28
6: Farewell_28
7: Nergal_28
8: MalagasyRose_32
9: MmasiCarm_17 + 46
10: Pipefish_17
11: Bernardo_17 + 2
12: ClubL_51 + 14
13: WilliamBoone_51
14: BrutonGaster_40
15: OneUp_45
16: GMA7_26 + 3
17: Amore2_36
18: Diabla_35
19: Squibbles_32 + 7
20: Bonenam_36 + 1
21: Eggsie_32
22: CinnamonToast_37 + 1
23: Cheims_32 + 2
24: Crete_33 + 1
25: Butterball_36 + 3
26: Monty_31 + 5
27: FelixAlejandro_37
28: PokyPuppy_31
29: Adgers_33 + 1
30: Barbochs_32
31: RoyalG_33
32: Lizzo_32 + 1
33: Linetti_33
34: BigShaq_32
35: Breezic_32
36: SteveFrench_32
37: Teal_33 + 23
38: Woes_33
39: Demosthenes_31
40: Kvothe_31 + 4
41: ASerpRocky_31
42: Hollow_32
43: Benczkowski14_31 + 1
44: Vitaenoii_33 + 1
45: Orchid_30 + 4
46: Yvonnetastic_49 + 1
47: Cardigan_50
48: Gmaia1_27 + 1
49: GordDuk1_27
50: GMA3_27

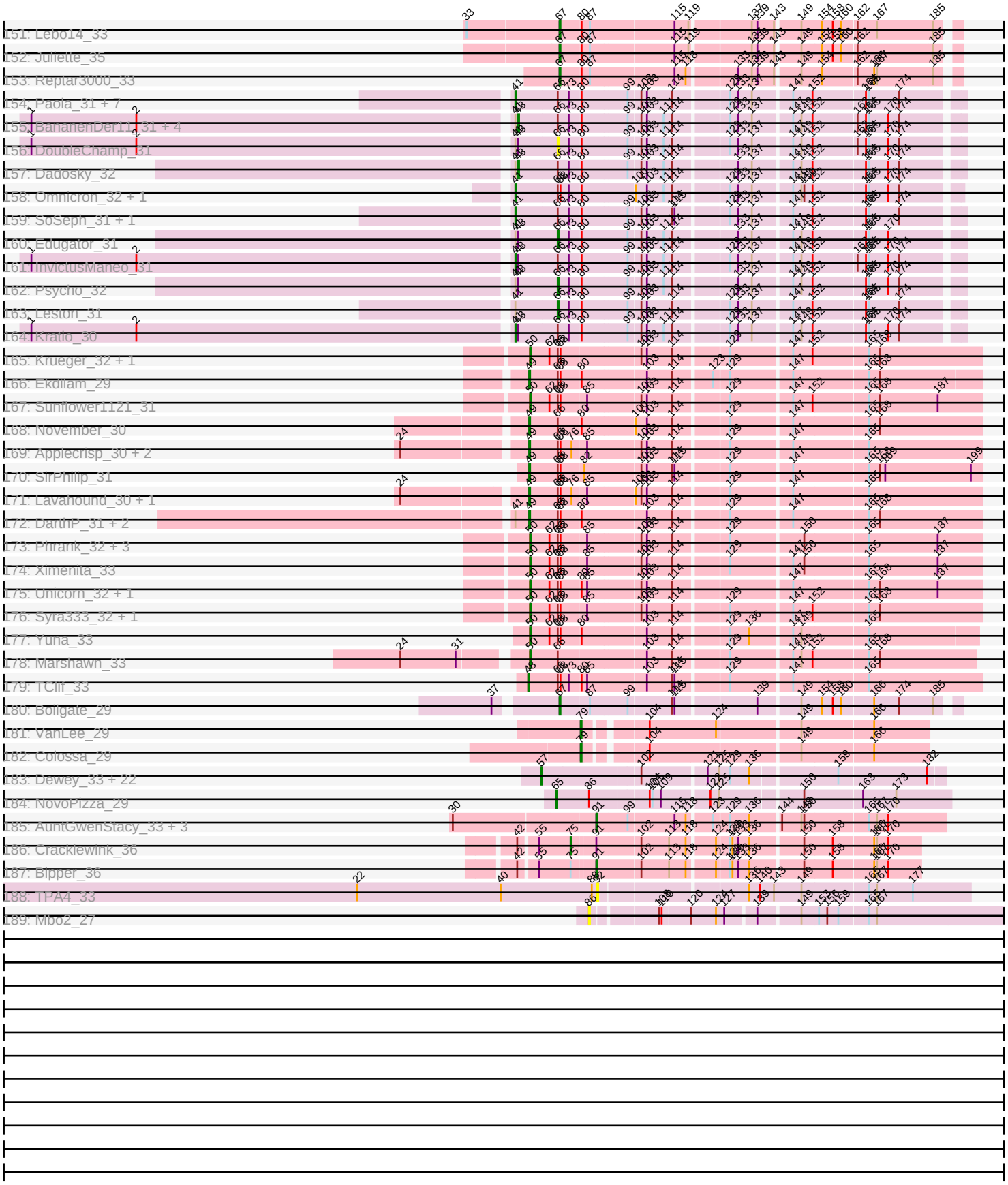
Pham 347080


51: Jumbo_34
52: Camerico_37
53: SpeedDemon_350
54: Mollymur_34
55: Bantam_33
56: DatBoi_34
57: Daredevil_32 + 1
58: CherryTomatoes_174 + 3
59: Wooper_16 + 3
60: Yago84_14 + 2
61: TraderJ_16 + 1
62: Fresco_14 + 3
63: BobRoss2024_13
64: AksarBAY_14
65: CloverMinnie_16
66: Coldpizza_16
67: Coco2012_14 + 2
68: LittleMunchkin_15
69: Manokart_14
70: NHagos_14
71: Yeshua_16
72: Sour_17
73: BigglyBass_13
74: MossRose_16
75: AnarQue_16
76: GMA2_39
77: ObLaDi_31 + 3
78: Morgana_31
79: Phreeze_35
80: Konstantine_40
81: Predator_37
82: Nish23_36 + 2
83: Beckerton_35 + 2
84: Oaker_35
85: BobtimousPrime_37
86: Puissant_36
87: Sbash_27 + 2
88: Pisa1_31 + 3
89: Mdavu_28 + 10
90: Spock_32 + 22
91: Padfoot_32 + 11
92: Jayhawk_32 + 9
93: Anma_32 + 3
94: Dole_32 + 2
95: Tiri_32
96: LeMond_31 + 1
97: KISI_31 + 1
98: QuincyRose_31 + 2
99: Validus_32
100: LastHope_32

Pham 347080


I01: Emerson_32 + 4
I02: Ageoldapage_32 + 1
I03: BarrelRoll_32
I04: Niklas_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: CheetoDust_32
I16: Chris_31
I17: Mururutumbu_32 + 1
I18: Angelica_32
I19: Nibb_31
I20: TiniBug_32
I21: MarkPhew_32
I22: Zavala_32
I23: BGluviae_32
I24: Peanam_32
I25: Apocalypse_32
I26: ChimD_32
I27: Elra2_32
I28: Geraldmi_32
I29: TM4_31
I30: Doughnut_31 + 1
I31: DismalStressor_30 + 2
I32: Mufasa_31
I33: Findley_30 + 2
I34: ZoeJ_30
I35: Neighly_32 + 2
I36: Keshu_33
I37: SherlockHolmes_33 + 2
I38: MacnCheese_33
I39: TBondi007_32 + 1
I40: Pharb_31
I41: TribleTrouble_31
I42: Mitti_33 + 5
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 347080


151: Lebo14_33
152: Juliette_35
153: Reptar3000_33
154: Paola_31 + 7
155: BananenDer11_31 + 4
156: DoubleChamp_31
157: Dadosky_32
158: Omnicron_32 + 1
159: SoSeph_31 + 1
160: Edugator_31
161: InvictusManeo_31
162: Psycho_32
163: Leston_31
164: Kratio_30
165: Krueger_32 + 1
166: Ekuliam_29
167: Sunflower1121_31
168: November_30
169: Applecrisp_30 + 2
170: SirPhilip_31
171: Lavahound_30 + 1
172: DarthP_31 + 2
173: Phrank_32 + 3
174: Ximenita_33
175: Unicorn_32 + 1
176: Syra333_32 + 1
177: Yuna_33
178: Marshawn_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 347080 Report

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

Pham number 347080 has 496 members, 37 are drafts.

Phages represented in each track:
• Track 1 : Phrappuccino_197, Settecandela_222
• Track 2 : Cuke_27
• Track 3 : Fowlmouth_30, MrMiyagi_30
• Track 4 : Caterpie_12, Sejanus_13, Mao1_12, Dori_13, Mask_13, JohnLord_13
• Track 5 : Sparky_28
• Track 6 : Farewell_28
• Track 7 : Nergal_28
• Track 8 : MalagasyRose_32
• Track 9 : MmasiCarm_17, Jackstina_16, Yinz_17, SynergyX_17, GlenHope_18, Chentzyk_16, Audrey_17, Compostia_18, Ben11_16, Neos5_17, Mulaychimus_17, Corofin_17, Briakila_17, Heathcliff_17, Baloo_17, Chalmers_17, SwainyDoc_17, Kronus_16, Halfpint_16, Daisy_17, Athena_18, RomaT_17, Nozo_17, ChaChing_17, Gervas_17, Philly_16, Rita1961_17, Morty007_17, Glubnar_17, Mortcellus_16, Casbah_16, RagingRooster_17, Kamiyu_17, Marley1013_17, OrangeOswald_17, Phlyer_17, Tydolla_17, LestyG_17, TinyTerror_17, Chandler_17, Abinghost_17, Gadjet_18, Deenasa_17, Devonte_17, Obutu_17, Phayeta_17, Shenandoah_17
• Track 10 : Pipefish_17
• Track 11 : Bernardo_17, Yahalom_17, Akoma_17
• Track 12 : ClubL_51, Toniann_51, Aphelion_51, Bachita_53, Norvs_52, Lozinak_52, Abscondus_50, Smoothie_53, Geeche_50, Engineer_53, Miskis_49, Dusty_50, PhinkBoden_51, Cucurbita_53, Culver_51
• Track 13 : WilliamBoone_51
• Track 14 : BrutonGaster_40
• Track 15 : OneUp_45
• Track 16 : GMA7_26, GTE7_26, HayZem_35, Austin_36
• Track 17 : Amore2_36
• Track 18 : Diabla_35
• Track 19 : Squibbles_32, Flakey_32, Gorko_32, GourdThymes_32, Hotorobo_32, Sam12_32, Worcestershire_32, Ekhein_32
• Track 20 : Boneham_36, BirksAndSocks_36
• Track 21 : Eggsie_32
• Track 22 : CinnamonToast_37, BillyBobJr_37
• Track 23 : Chelms_32, PierreThree_32, Dakiti_32
• Track 24 : Crete_33, BenoitCattle_32
• Track 25 : Butterball_36, Jellybones_36, Msay19_37, Poland_37
• Track 26 : Monty_31, Kelzog_32, John316_36, Exiguo_32, RemRem_33, Beaver_36

• Track 27 : FelixAlejandro_37
• Track 28 : PokyPuppy_31
• Track 29 : Adgers_33, Sombrero_32
• Track 30 : Barbochs_32
• Track 31 : RoyalG_33
• Track 32 : Lizzo_32, CathyBurgh_32
• Track 33 : Linetti_33
• Track 34 : BigShaq_32
• Track 35 : Breezic_32
• Track 36 : SteveFrench_32
• Track 37 : 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, Charianelly_33, Jormungandr_33, Kaseim_33, Nimi13_33, Neoevie_33, GalacticEye_33
• Track 38 : Woes_33
• Track 39 : Demosthenes_31
• Track 40 : Kvothe_31, Niagara_31, Teatealatte_31, Tredge_31, Teech_31
• Track 41 : ASerpRocky_31
• Track 42 : Hollow_32
• Track 43 : Benczkowski14_31, Katyusha_31
• Track 44 : Vitaenoii_33, Philon9_33
• Track 45 : Orchid_30, Gibbles_29, PatrickStar_30, Kampe_30, RobinSparkles_33
• Track 46 : Yvonnetastic_49, JonJames_51
• Track 47 : Cardigan_50
• Track 48 : Gmala1_27, GordTnk2_27
• Track 49 : GordDuk1_27
• Track 50 : GMA3_27
• Track 51 : Jumbo_34
• Track 52 : Camerico_37
• Track 53 : SpeedDemon_350
• Track 54 : Mollymur_34
• Track 55 : Bantam_33
• Track 56 : DatBoi_34
• Track 57 : Daredevil_32, Towmatter_31
• Track 58 : CherryTomatoes_174, Pupper_173, Skog_5, SCentae_172
• Track 59 : Wooper_16, Blackpen_16, MakoManhole_16, FelixTres_16
• Track 60 : Yago84_14, AnClar_14, Sisko_14
• Track 61 : TraderJ_16, CaiB_16
• Track 62 : Fresco_14, Axumite_14, Shatter_14, Ligma_14
• Track 63 : BobRoss2024_13
• Track 64 : AksarBAT_14
• Track 65 : CloverMinnie_16
• Track 66 : Coldpizza_16
• Track 67 : Coco2012_14, CharlottesWeb_14, JellyBelly_14
• Track 68 : LittleMunchkin_15
• Track 69 : Mariokart_14
• Track 70 : NHagos_14
• Track 71 : Yeshua_16
• Track 72 : Sour_17
• Track 73 : BiggityBass_13
• Track 74 : MossRose_16
• Track 75 : AnarQue_16

• Track 76 : GMA2_39
• Track 77 : ObLaDi_31, ModicumRichard_31, Aleemily_30, Cafasso_31
• Track 78 : Morgana_31
• Track 79 : Phreeze_35
• Track 80 : Konstantine_40
• Track 81 : Predator_37
• Track 82 : Nish23_36, Cborch11_36, Megatron06_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_27, IdentityCrisis_27
• Track 88 : Pisa1_31, Kheparia_34, Bern_32, Pisa4_31
• Track 89 : Mdavu_28, Teejan_28, Trice_28, Enkosi_28, Amelie_28, Nikao_28, LilPharaoh_28, Biglebops_28, Torres_28, SgtBeansprout_28, Nutello_28
• Track 90 : Spock_32, MacKat_32, Topper_32, Twitch_32, Llorens_32, Joy99_32, Dalmuri_32, Jeckyll_32, Lokum_32, Belladonna_32, Peel_32, CREW_32, AlishaPH_32, Rosmarinus_32, Clipper_32, Lunahalos_32, Sulley_32, Inky_32, Deby_32, Capricorn_32, CallaLilly_32, Jarvi_32, YoureAdopted_31
• Track 91 : Padfoot_32, Asayake_32, CaseJules_32, Blizzard_32, Homura_32, Durfee_32, BEEST_32, ShiaSurprise_32, BaghaKamala_32, Piatt_32, Boiiii_32, Hyperbowlee_32
• Track 92 : Jayhawk_32, Slimphazie_32, ActinUp_32, HedwigODU_32, Veliki_32, Atiba_32, Adephagia_32, Tachez_32, Zabiza_32, Rapunzel97_32
• Track 93 : Anma_32, Urkel_32, SamuelLPlaqson_32, DrHayes_32
• Track 94 : Dole_32, Devera_32, Illumine_32
• Track 95 : Tiri_32
• Track 96 : LeMond_31, Oscar_31
• Track 97 : KiSi_31, Scarlett_31
• Track 98 : QuincyRose_31, MeaningOfLife_32, Ganymede_33
• Track 99 : Validus_32
• Track 100 : LastHope_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 : Niklas_32, McMater_32, Richo_32, Dartin_32, Shaobing_32
• Track 105 : Bella96_32, DartGoblin_32
• Track 106 : TaiwanKao_33, Prithvi_32, LindNT_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 : CheetoDust_32
• Track 116 : Chris_31
• Track 117 : Murucutumbu_32, LaterM_32
• Track 118 : Angelica_32
• Track 119 : Nibb_31
• Track 120 : TiniBug_32
• Track 121 : MarkPhew_32

• Track 122 : Zavala_32
• Track 123 : BGlluviae_32
• Track 124 : Peanam_32
• Track 125 : Apocalypse_32
• Track 126 : CrimD_32
• Track 127 : Efra2_32
• Track 128 : Geraldini_32
• Track 129 : TM4_31
• Track 130 : Doughnut_31, BoostSeason_31
• Track 131 : DismalStressor_30, Marcoliusprime_30, DismalFunk_30
• Track 132 : Mufasa_31
• 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, Lea83_33, Hurricane_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, Nolwazi_34, 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 : BananenDer11_31, Collard_31, ViviJ_30, LilDirt_30, Agent47_31
• Track 156 : DoubleChamp_31
• Track 157 : Dadosky_32
• Track 158 : Omnicron_32, Rando14_32
• Track 159 : SoSeph_31, Heftyboy_31
• Track 160 : Edugator_31
• Track 161 : InvictusManeo_31
• Track 162 : Psycho_32
• 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 : Applecrisp_30, Fefferhead_31, Ellie_29
• Track 170 : SirPhilip_31
• Track 171 : Lavahound_30, Amgine_30
• Track 172 : DarthP_31, Amohnition_31, Hammy_31

• Track 173 : Phrank_32, Bryler_32, Tierra_32, Cain_32
• Track 174 : Ximenita_33
• Track 175 : Unicorn_32, PhelpsODU_32
• Track 176 : Syra333_32, Shadow1_31
• Track 177 : Yuna_33
• Track 178 : Marshawn_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, OBUpride_34, Luna22_33, Hadrien_34, HH92_33, Wishmaker_33, Amymech_34, Gancho_33, Webster2_34, Luke_34, Amochick_34, Giles_33, LilHazelnut_34, Kinbote_34, BloominB_33, Gravaillia_33, Ubuntu_34, Evanesce_33, DeepSoil15_34, 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 50, it was called in 135 of the 459 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, Kheparia_34, KiSi_31, Krueger_32, LastHope_32, LaterM_32, LeMond_31, Lea83_33, LilPharaoh_28, LindNT_32, Llorens_32, Lokum_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, Gmala1_27, GordTnk2_27,

Genes that do not have the "Most Annotated" start:
• ASerpRocky_31, Abinghost_17, Abscondus_50, Adgers_33, Agent47_31, Akoma_17, AksarBAT_14, Aleemily_30, AlleyCat_32, Amgine_30, Amochick_34, Amohnition_31, Amore2_36, Amymech_34, AnClar_14, Anamika_33, AnarQue_16, Aphelion_51, Applecrisp_30, Athena_18, Audrey_17, AuntGwenStacy_33, Austin_36, Axumite_14, Bachita_53, Baloo_17, BananenDer11_31, Bantam_33, Barbochs_32, Beaver_36, Beckerton_35, Ben11_16, Benczkowski14_31, BenoitCattle_32, Bernardo_17, Berries_33, Bianmat_33, BigShaq_32, BiggityBass_13, BillyBobJr_37, Bipper_36, BirksAndSocks_36, Blackpen_16, BloominB_33, BobRoss2024_13, Bobquesha_34, BobtimousPrime_37, Boilgate_29, Boneham_36, BoostSeason_31, Breezic_32, Briakila_17, BrutonGaster_40, Butterball_36, Cafasso_31, CaiB_16, Camerico_37, Cardigan_50, Casbah_16, Caterpie_12, CathyBurgh_32, Cborch11_36, ChaChing_17, Chalmers_17, Chancellor_33, Chandler_17, Charianelly_33, CharlottesWeb_14, Cheetobro_33, Chelms_32, Chentzyk_16, CherryTomatoes_174, Chris_31, CinnamonToast_37, CloverMinnie_16, ClubL_51, Coco2012_14, Coldpizza_16, Collard_31, Colossa_29, Compostia_18, Corofin_17, Cracklewink_36, Crete_33, Cucurbita_53, Cuke_27, Culver_51, Dadosky_32, Daegal_35, Daisy_17, Dakiti_32, Damien_35, Damp_33, DanSyl44_36, Daredevil_32, DarthP_31, DatBoi_34, Deenasa_17, DeepSoil15_34, Demosthenes_31, Devonte_17, Dewey_33, Diabla_35, DismalFunk_30, DismalStressor_30, Dori_13, DoubleChamp_31, Doughnut_31, Dusty_50, Edugator_31, Eggsie_32, Ein37_34, Ekdilam_29, Ekhein_32, Ellie_29, Engineer_53, Eponine_35, Evanesce_33, Exiguo_32, Faiyaz_33, Farewell_28, Fefferhead_31, FelixAlejandro_37, FelixTres_16, Feyre_31, Findley_30, Fionnbharth_33, Flakey_32, Forge_33, Fowlmouth_30, Fresco_14, GMA2_39, GMA3_27, GMA7_26, GTE7_26, Gadjet_18, GalacticEye_33, Gancho_33, Geeche_50, Gengar_31, Gervas_17, Gibbles_29, Giles_33, GlenHope_18, Glubnar_17, GordDuk1_27, Gorko_32, GourdThymes_32, Gravaillia_33, Guillaume_33, Guillsminger_31, HH92_33, Hadrien_34, Hail2Pitt_33, Hail_33, Halfpint_16, Hammy_31, Harambe_33, HayZem_35, Heathcliff_17, Heftyboy_31, Hello_33, Hilltopfarm_33, Hollow_32, Hotorobo_32, IdentityCrisis_27, InvictusManeo_31, JF1_33, Jackstina_16, Jams_33, JellyBelly_14, Jellybones_36, John316_36, JohnLord_13, JonJames_51, Jormungandr_33, Juliette_35, Jumbo_34, Kamiyu_17, Kampe_30, Kaseim_33, Katyusha_31, Kelzog_32, Kinbote_34, Konstantine_40, Kratio_30, Kraw_33, Kronus_16, Kvothe_31, Lahirium_33, Larva_32, Lavahound_30, Lebo14_33, Leston_31, LestyG_17, Lidong_33, Ligma_14, LilDirt_30, LilHazelnut_34, Linetti_33, LittleMunchkin_15, Lizzo_32, Lozinak_52, Luke_34, Luker_34, Luna22_33, MakoManhole_16, MalagasyRose_32, Malthus_34, Mao1_12, Marcoliusprime_30, Mariokart_14, Marley1013_17, Mask_13, Mbo2_27, Megatron06_37, Milly_30, Minos_34, Miryou_31, Miskis_49, MissDaisy_33, Mitti_33, MmasiCarm_17, ModicumRichard_31, Mollymur_34, Monty_31, Morgana_31, Mortcellus_16, Morty007_17, MossRose_16, MrMiyagi_30, MrWormie_33, Msay19_37, Mufasa_31, Mulaychimus_17, NHagos_14, Neighly_32, Neoevie_33, Neos5_17, Nergal_28, Newt_34, Niagara_31, Nimi13_33, Nish23_36, Nolwazi_34, Norvs_52, November_30, NovoPizza_29, Nozo_17, OBUpride_34, Oaker_35, ObLaDi_31, Obutu_17, OkiRoe_31, OmniCritical_33, Omnicron_32, OneUp_45, OrangeOswald_17, Orchid_30, Paola_31, PatrickStar_30, Patt_33, Phayeta_17, Philly_16, Philon9_33, PhinkBoden_51, Phlyer_17, Phrappuccino_197, Phreeze_35, PierreThree_32,

Pipefish_17, PokyPuppy_31, Poland_37, Predator_37, Psycho_32, Puissant_36, Pupper_173, Qhanda_34, RagingRooster_17, Rando14_32, RemRem_33, Reptar3000_33, Rita1961_17, RobinSparkles_33, RomaT_17, RoyalG_33, Ruthiejr_34, SCentae_172, Sam12_32, SamScheppers_33, Sbash_27, Sejanus_13, Settecandela_222, Shatter_14, Shelley_33, Shenandoah_17, SirPhilip_31, Sisko_14, Skog_5, Slarp_33, Smoothie_53, SoSeph_31, Sombrero_32, Sour_17, Sparky_28, SpeedDemon_350, Squibbles_32, SteveFrench_32, Sticker17_33, Strobilo_30, Stuck_27, SwainyDoc_17, SynergyX_17, TClif_33, TM4_31, TPA4_33, Taquito_33, Teal_33, Teatealatte_31, Teech_31, Thumb_35, Thyatira_31, TinyTerror_17, Toniann_51, Towmatter_31, TraderJ_16, Tredge_31, Tydolla_17, Typha_33, Ubuntu_34, VanLee_29, Vitaenoii_33, ViviJ_30, Waterfoul_31, Webster2_34, WilliamBoone_51, Wintermute_33, Wishmaker_33, Woes_33, Wooper_16, Worcestershire_32, Y10_33, Y2_33, Yago84_14, Yahalom_17, YasnayaPolyana_33, Yeshua_16, Yinz_17, Yvonnetastic_49, ZoeJ_30,

Summary by start number:

Start 38:
• Found in 64 of 496 (12.9%) of genes in pham
• Manual Annotations of this start: 21 of 459
• Called 32.8% 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), Worcestershire_32 (CS2),

Start 41:
• Found in 34 of 496 (6.9%) of genes in pham
• Manual Annotations of this start: 16 of 459
• 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 43:
• Found in 14 of 496 (2.8%) of genes in pham
• Manual Annotations of this start: 6 of 459
• 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 46:
• Found in 3 of 496 (0.6%) of genes in pham
• Manual Annotations of this start: 3 of 459
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ASerpRocky_31 (CS4), Demosthenes_31 (CS4), Jumbo_34 (DF3),

Start 47:

• Found in 1 of 496 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 459
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Nergal_28 (AG),

Start 48:
• Found in 1 of 496 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 459
• Called 100.0% of time when present
• Phage (with cluster) where this start called: TClif_33 (K6),

Start 49:
• Found in 12 of 496 (2.4%) of genes in pham
• Manual Annotations of this start: 12 of 459
• 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 50:
• Found in 146 of 496 (29.4%) of genes in pham
• Manual Annotations of this start: 135 of 459
• Called 97.9% 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), Kheparia_34 (K1), 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), Lokum_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 51:
• Found in 1 of 496 (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 52:
• Found in 57 of 496 (11.5%) of genes in pham
• Manual Annotations of this start: 55 of 459
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Abinghost_17 (B3), Akoma_17 (B3), Athena_18 (B3), Audrey_17 (B3), Baloo_17 (B3), Ben11_16 (B3), Bernardo_17 (B3), Briakila_17 (B3), Casbah_16 (B3), Caterpie_12 (AD), ChaChing_17 (B3), Chalmers_17 (B3), Chandler_17 (B3), Chentzyk_16 (B3), Compostia_18 (B3), Corofin_17 (B3), Daisy_17 (B3), Deenasa_17 (B3), Devonte_17 (B3), Dori_13 (AD), Gadjet_18 (B3), Gervas_17 (B3), GlenHope_18 (B3), Glubnar_17 (B3), Halfpint_16 (B3), Heathcliff_17 (B3), Jackstina_16 (B3), JohnLord_13 (AD), Kamiyu_17 (B3), Kronus_16 (B3), LestyG_17 (B3), Mao1_12 (AD), Marley1013_17 (B3), Mask_13 (AD), MmasiCarm_17 (B3), Mortcellus_16 (B3), Morty007_17 (B3), Mulaychimus_17 (B3), Neos5_17 (B3), Nozo_17 (B3), Obutu_17 (B3), OrangeOswald_17 (B3), Phayeta_17 (B3), Philly_16 (B3), Phlyer_17 (B3), Pipefish_17 (B3), RagingRooster_17 (B3), Rita1961_17 (B3), RomaT_17 (B3), Sejanus_13 (AD), Shenandoah_17 (B3), SwainyDoc_17 (B3), SynergyX_17 (B3), TinyTerror_17 (B3), Tydolla_17 (B3), Yahalom_17 (B3), Yinz_17 (B3),

Start 53:
• Found in 1 of 496 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 459
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MalagasyRose_32 (AG),

Start 57:
• Found in 26 of 496 (5.2%) of genes in pham
• Manual Annotations of this start: 26 of 459
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amochick_34 (Q), Amymech_34 (Q), BloominB_33 (Q), Cardigan_50 (DD), Daegal_35 (Q), 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), JonJames_51 (DD), Kinbote_34 (Q), LilHazelnut_34 (Q), Luke_34 (Q), Luna22_33 (Q), OBUpride_34 (Q), Ubuntu_34 (Q), Webster2_34 (Q), Wishmaker_33 (Q), Yvonnetastic_49 (DD),

Start 58:
• Found in 12 of 496 (2.4%) of genes in pham
• Manual Annotations of this start: 10 of 459
• Called 91.7% of time when present
• Phage (with cluster) where this start called: Beckerton_35 (H1), BobtimousPrime_37 (H1), Cborch11_36 (H1), Damien_35 (H1), Megatron06_37 (H1), Nish23_36 (H1),

Oaker_35 (H1), Phreeze_35 (H1), Predator_37 (H1), Puissant_36 (H1), Thumb_35 (H1),

Start 59:
• Found in 10 of 496 (2.0%) of genes in pham
• Manual Annotations of this start: 8 of 459
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AnarQue_16 (DR), Blackpen_16 (DR), CaiB_16 (DR), CloverMinnie_16 (DR), FelixTres_16 (DR), MakoManhole_16 (DR), MossRose_16 (DR), TraderJ_16 (DR), Wooper_16 (DR), Yeshua_16 (DR),

Start 60:
• Found in 73 of 496 (14.7%) of genes in pham
• Manual Annotations of this start: 46 of 459
• Called 69.9% 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),

Start 61:
• Found in 4 of 496 (0.8%) of genes in pham
• Manual Annotations of this start: 4 of 459
• 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 64:
• Found in 22 of 496 (4.4%) of genes in pham
• Manual Annotations of this start: 11 of 459
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Benczkowski14_31 (CS4), Hollow_32 (CS4), Katyusha_31 (CS4), Konstantine_40 (H1), Kvothe_31 (CS4), Niagara_31 (CS4), Philon9_33 (CS4), Teatealatte_31 (CS4), Teech_31 (CS4), Tredge_31 (CS4), Vitaenoii_33 (CS4),

Start 65:
• Found in 1 of 496 (0.2%) of genes in pham
• Manual Annotations of this start: 1 of 459
• Called 100.0% of time when present
• Phage (with cluster) where this start called: NovoPizza_29 (Q),

Start 66:
• Found in 253 of 496 (51.0%) of genes in pham

• Manual Annotations of this start: 3 of 459
• Called 1.6% of time when present
• Phage (with cluster) where this start called: DoubleChamp_31 (K5), Edugator_31 (K5), Leston_31 (K5), Psycho_32 (K5),

Start 67:
• Found in 30 of 496 (6.0%) of genes in pham
• Manual Annotations of this start: 23 of 459
• Called 90.0% 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), Nolwazi_34 (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 70:
• Found in 117 of 496 (23.6%) of genes in pham
• No Manual Annotations of this start.
• Called 3.4% of time when present
• Phage (with cluster) where this start called: Chavito_32 (K1), Gmala1_27 (DF1), GordDuk1_27 (DF1), GordTnk2_27 (DF1),

Start 71:
• Found in 15 of 496 (3.0%) of genes in pham
• Manual Annotations of this start: 7 of 459
• Called 53.3% of time when present
• Phage (with cluster) where this start called: AksarBAT_14 (DR), Aleemily_30 (DZ), Cafasso_31 (DZ), ModicumRichard_31 (DZ), Morgana_31 (DZ), NHagos_14 (DR), ObLaDi_31 (DZ), Sour_17 (DR),

Start 74:
• Found in 14 of 496 (2.8%) of genes in pham
• Manual Annotations of this start: 10 of 459
• Called 92.9% of time when present
• Phage (with cluster) where this start called: AnClar_14 (DR), BiggityBass_13 (DR), BobRoss2024_13 (DR), CharlottesWeb_14 (DR), Coco2012_14 (DR), Cuke_27 (AC), Fowlmouth_30 (AC), JellyBelly_14 (DR), LittleMunchkin_15 (DR), Mariokart_14 (DR), MrMiyagi_30 (AC), Sisko_14 (DR), Yago84_14 (DR),

Start 75:
• Found in 2 of 496 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 459
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Cracklewink_36 (Y),

Start 77:
• Found in 6 of 496 (1.2%) of genes in pham
• Manual Annotations of this start: 1 of 459
• Called 16.7% of time when present
• Phage (with cluster) where this start called: Coldpizza_16 (DR),

Start 79:
• Found in 27 of 496 (5.4%) of genes in pham
• Manual Annotations of this start: 18 of 459
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Axumite_14 (DR), Bantam_33 (DL), Colossa_29 (KA), Daredevil_32 (DL), DatBoi_34 (DL), Fresco_14 (DR), IdentityCrisis_27 (AJ), Ligma_14 (DR), Mollymur_34 (DL), OneUp_45 (CQ2), Phrappuccino_197 (AA), Sbash_27 (I2), Settecandela_222 (AA), Shatter_14 (DR), SpeedDemon_350 (DL), Stuck_27 (I2), Towmatter_31 (DL), VanLee_29 (KA),

Start 83:
• Found in 5 of 496 (1.0%) of genes in pham
• Manual Annotations of this start: 5 of 459
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gibbles_29 (CX), Kampe_30 (CX), Orchid_30 (CX), PatrickStar_30 (CX), RobinSparkles_33 (CX),

Start 86:
• Found in 14 of 496 (2.8%) of genes in pham
• Manual Annotations of this start: 2 of 459
• Called 21.4% of time when present
• Phage (with cluster) where this start called: Farewell_28 (AF), Mbo2_27 (singleton), Sparky_28 (AF),

Start 89:
• Found in 11 of 496 (2.2%) of genes in pham
• Manual Annotations of this start: 11 of 459
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BoostSeason_31 (K2), DismalFunk_30 (K2), DismalStressor_30 (K2), Doughnut_31 (K2), Findley_30 (K2), Marcoliusprime_30 (K2), Milly_30 (K2), Mufasa_31 (K2), Strobilo_30 (K2), TM4_31 (K2), ZoeJ_30 (K2),

Start 90:
• Found in 18 of 496 (3.6%) of genes in pham
• Manual Annotations of this start: 16 of 459
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Abscondus_50 (CQ1), Aphelion_51 (CQ1), Bachita_53 (CQ1), BrutonGaster_40 (CQ2), ClubL_51 (CQ1), Cucurbita_53 (CQ1), Culver_51 (CQ1), Dusty_50 (CQ1), Engineer_53 (CQ1), GMA2_39 (DS), Geeche_50 (CQ1), Lozinak_52 (CQ1), Miskis_49 (CQ1), Norvs_52 (CQ1), PhinkBoden_51 (CQ1), Smoothie_53 (CQ1), Toniann_51 (CQ1), WilliamBoone_51 (CQ1),

Start 91:
• Found in 17 of 496 (3.4%) of genes in pham
• Manual Annotations of this start: 5 of 459
• Called 29.4% of time when present
• Phage (with cluster) where this start called: AuntGwenStacy_33 (Y), Bipper_36 (Y), Faiyaz_33 (Y), Hilltopfarm_33 (Y), Typha_33 (Y),

Start 92:
• Found in 1 of 496 (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: TPA4_33 (singleton),

Summary by clusters:

There are 37 clusters represented in this pham: DO, singleton, DD, DL, K3, K2, K1, DZ, K6, K5, K4, K8, DR, DS, DF4, I2, DF1, DF3, DF2, CS4, CQ1, CS1, CS3, CS2, AA, AC, AD, AG, AF, AJ, Q, CX, CQ2, Y, KA, H1, B3,

Info for manual annotations of cluster AA:
•Start number 79 was manually annotated 2 times for cluster AA.

Info for manual annotations of cluster AC:
•Start number 74 was manually annotated 3 times for cluster AC.

Info for manual annotations of cluster AD:
•Start number 52 was manually annotated 4 times for cluster AD.

Info for manual annotations of cluster AF:
•Start number 86 was manually annotated 2 times for cluster AF.

Info for manual annotations of cluster AG:
•Start number 47 was manually annotated 1 time for cluster AG.
•Start number 53 was manually annotated 1 time for cluster AG.

Info for manual annotations of cluster AJ:
•Start number 79 was manually annotated 1 time for cluster AJ.

Info for manual annotations of cluster B3:
•Start number 52 was manually annotated 51 times for cluster B3.

Info for manual annotations of cluster CQ1:
•Start number 90 was manually annotated 15 times for cluster CQ1.

Info for manual annotations of cluster CQ2:
•Start number 79 was manually annotated 1 time for cluster CQ2.
•Start number 90 was manually annotated 1 time for cluster CQ2.

Info for manual annotations of cluster CS1:
•Start number 60 was manually annotated 3 times for cluster CS1.

Info for manual annotations of cluster CS2:
•Start number 38 was manually annotated 21 times for cluster CS2.
•Start number 60 was manually annotated 17 times for cluster CS2.

Info for manual annotations of cluster CS3:
•Start number 60 was manually annotated 25 times for cluster CS3.

Info for manual annotations of cluster CS4:
•Start number 46 was manually annotated 2 times for cluster CS4.
•Start number 64 was manually annotated 10 times for cluster CS4.

Info for manual annotations of cluster CX:
•Start number 83 was manually annotated 5 times for cluster CX.

Info for manual annotations of cluster DD:
•Start number 57 was manually annotated 3 times for cluster DD.

Info for manual annotations of cluster DF3:
•Start number 46 was manually annotated 1 time for cluster DF3.

Info for manual annotations of cluster DF4:
•Start number 60 was manually annotated 1 time for cluster DF4.

Info for manual annotations of cluster DL:
•Start number 79 was manually annotated 6 times for cluster DL.

Info for manual annotations of cluster DO:
•Start number 61 was manually annotated 4 times for cluster DO.

Info for manual annotations of cluster DR:
•Start number 59 was manually annotated 8 times for cluster DR.
•Start number 71 was manually annotated 2 times for cluster DR.
•Start number 74 was manually annotated 7 times for cluster DR.
•Start number 77 was manually annotated 1 time for cluster DR.
•Start number 79 was manually annotated 4 times for cluster DR.

Info for manual annotations of cluster DZ:
•Start number 71 was manually annotated 5 times for cluster DZ.

Info for manual annotations of cluster H1:
•Start number 58 was manually annotated 10 times for cluster H1.
•Start number 64 was manually annotated 1 time for cluster H1.

Info for manual annotations of cluster I2:
•Start number 79 was manually annotated 2 times for cluster I2.

Info for manual annotations of cluster K1:
•Start number 49 was manually annotated 1 time for cluster K1.
•Start number 50 was manually annotated 112 times for cluster K1.

Info for manual annotations of cluster K2:
•Start number 89 was manually annotated 11 times for cluster K2.

Info for manual annotations of cluster K3:
•Start number 50 was manually annotated 9 times for cluster K3.

Info for manual annotations of cluster K4:
•Start number 67 was manually annotated 22 times for cluster K4.

Info for manual annotations of cluster K5:
•Start number 41 was manually annotated 16 times for cluster K5.

•Start number 43 was manually annotated 6 times for cluster K5.
•Start number 66 was manually annotated 3 times for cluster K5.

Info for manual annotations of cluster K6:
•Start number 48 was manually annotated 1 time for cluster K6.
•Start number 49 was manually annotated 11 times for cluster K6.
•Start number 50 was manually annotated 14 times for cluster K6.

Info for manual annotations of cluster K8:
•Start number 67 was manually annotated 1 time for cluster K8.

Info for manual annotations of cluster KA:
•Start number 79 was manually annotated 2 times for cluster KA.

Info for manual annotations of cluster Q:
•Start number 57 was manually annotated 23 times for cluster Q.
•Start number 65 was manually annotated 1 time for cluster Q.

Info for manual annotations of cluster Y:
•Start number 75 was manually annotated 1 time for cluster Y.
•Start number 91 was manually annotated 5 times for cluster Y.

Gene Information:

Gene: ASerpRocky_31 Start: 39045, Stop: 39497, Start Num: 46
Candidate Starts for ASerpRocky_31:
(Start: 46 @39045 has 3 MA's), (97, 39105), (101, 39132), (105, 39147), (121, 39201), (132, 39231), (140, 39255), (150, 39297), (154, 39315), (157, 39324), (166, 39369), (190, 39444),

Gene: Abinghost_17 Start: 14566, Stop: 15000, Start Num: 52
Candidate Starts for Abinghost_17:
(27, 14461), (Start: 52 @14566 has 55 MA's), (84, 14620), (109, 14686), (163, 14887), (164, 14890),

Gene: Abscondus_50 Start: 32639, Stop: 33046, Start Num: 90
Candidate Starts for Abscondus_50:
(Start: 90 @32639 has 16 MA's), (107, 32702), (109, 32705), (141, 32807), (165, 32918), (176, 32960), (201, 33035),

Gene: ActinUp_32 Start: 27346, Stop: 27786, Start Num: 50
Candidate Starts for ActinUp_32:
(17, 27109), (31, 27283), (Start: 50 @27346 has 135 MA's), (Start: 66 @27376 has 3 MA's), (70, 27382), (73, 27388), (80, 27400), (99, 27448), (103, 27466), (114, 27493), (129, 27547), (146, 27607), (147, 27610), (152, 27631), (165, 27688), (174, 27721), (195, 27778),

Gene: Adephagia_32 Start: 27343, Stop: 27783, Start Num: 50
Candidate Starts for Adephagia_32:
(17, 27106), (31, 27280), (Start: 50 @27343 has 135 MA's), (Start: 66 @27373 has 3 MA's), (70, 27379), (73, 27385), (80, 27397), (99, 27445), (103, 27463), (114, 27490), (129, 27544), (146, 27604), (147, 27607), (152, 27628), (165, 27685), (174, 27718), (195, 27775),

Gene: Adgers_33 Start: 37508, Stop: 38029, Start Num: 38

Candidate Starts for Adgers_33:
(Start: 38 @37508 has 21 MA's), (Start: 60 @37562 has 46 MA's), (Start: 66 @37574 has 3 MA's), (80, 37595), (104, 37664), (111, 37679), (136, 37763), (149, 37814), (152, 37826), (165, 37886), (180, 37943), (192, 37976), (196, 37991),

Gene: Adonis_32 Start: 27349, Stop: 27798, Start Num: 50
Candidate Starts for Adonis_32:
(17, 27112), (23, 27223), (31, 27286), (Start: 50 @27349 has 135 MA's), (Start: 66 @27379 has 3 MA's), (70, 27385), (73, 27391), (80, 27403), (99, 27451), (103, 27469), (114, 27496), (129, 27550), (133, 27559), (147, 27613), (165, 27691),

Gene: Agent47_31 Start: 27988, Stop: 28437, Start Num: 43
Candidate Starts for Agent47_31:
(1, 27472), (2, 27586), (Start: 41 @27985 has 16 MA's), (Start: 43 @27988 has 6 MA's), (Start: 66 @28030 has 3 MA's), (73, 28042), (80, 28054), (99, 28102), (102, 28114), (103, 28120), (111, 28138), (114, 28147), (129, 28201), (133, 28210), (137, 28225), (147, 28264), (149, 28273), (152, 28285), (162, 28330), (164, 28339), (165, 28342), (170, 28363), (174, 28375),

Gene: Ageofdapage_32 Start: 27286, Stop: 27726, Start Num: 50
Candidate Starts for Ageofdapage_32:
(17, 27049), (Start: 50 @27286 has 135 MA's), (Start: 66 @27316 has 3 MA's), (70, 27322), (73, 27328), (80, 27340), (99, 27388), (103, 27406), (114, 27433), (123, 27472), (129, 27487), (133, 27496), (147, 27550), (165, 27628), (174, 27661), (195, 27718),

Gene: Akoma_17 Start: 14566, Stop: 15000, Start Num: 52
Candidate Starts for Akoma_17:
(27, 14461), (Start: 52 @14566 has 55 MA's), (84, 14620), (109, 14686), (163, 14887), (164, 14890),

Gene: AksarBAT_14 Start: 12848, Stop: 13225, Start Num: 71
Candidate Starts for AksarBAT_14:
(Start: 71 @12848 has 7 MA's), (98, 12893), (105, 12929), (109, 12938), (130, 13007), (134, 13016), (136, 13025), (154, 13097), (156, 13103), (167, 13154), (172, 13172),

Gene: Aleemily_30 Start: 26547, Stop: 26906, Start Num: 71
Candidate Starts for Aleemily_30:
(Start: 71 @26547 has 7 MA's), (Start: 77 @26553 has 1 MA's), (112, 26640), (138, 26730), (142, 26742), (156, 26799),

Gene: AlishaPH_32 Start: 27336, Stop: 27776, Start Num: 50
Candidate Starts for AlishaPH_32:
(31, 27273), (Start: 50 @27336 has 135 MA's), (Start: 66 @27366 has 3 MA's), (70, 27372), (73, 27378), (80, 27390), (99, 27438), (103, 27456), (114, 27483), (129, 27537), (133, 27546), (147, 27600), (152, 27621), (165, 27678), (174, 27711), (195, 27768),

Gene: AlleyCat_32 Start: 27916, Stop: 28368, Start Num: 41
Candidate Starts for AlleyCat_32:
(Start: 41 @27916 has 16 MA's), (Start: 43 @27919 has 6 MA's), (Start: 66 @27961 has 3 MA's), (73, 27973), (80, 27985), (99, 28033), (102, 28045), (103, 28051), (111, 28069), (114, 28078), (133, 28141), (137, 28156), (147, 28195), (149, 28204), (152, 28216), (164, 28270), (165, 28273), (170, 28294), (174, 28306),

Gene: Amelie_28 Start: 26747, Stop: 27205, Start Num: 50
Candidate Starts for Amelie_28:

(21, 26528), (Start: 50 @26747 has 135 MA's), (Start: 66 @26777 has 3 MA's), (70, 26783), (80, 26801), (102, 26861), (111, 26885), (114, 26894), (115, 26897), (118, 26909), (129, 26948), (133, 26957), (134, 26960), (147, 27011), (152, 27032), (156, 27047), (165, 27089), (168, 27101),

Gene: Amgine_30 Start: 27287, Stop: 27751, Start Num: 49
Candidate Starts for Amgine_30:
(24, 27164), (Start: 49 @27287 has 12 MA's), (Start: 66 @27317 has 3 MA's), (68, 27320), (76, 27332), (85, 27347), (100, 27395), (102, 27401), (103, 27407), (114, 27434), (129, 27488), (147, 27551), (165, 27629),

Gene: Amochick_34 Start: 29602, Stop: 30012, Start Num: 57
Candidate Starts for Amochick_34:
(Start: 57 @29602 has 26 MA's), (102, 29704), (121, 29770), (125, 29782), (129, 29794), (136, 29815), (159, 29902), (182, 29995),

Gene: Amohnition_31 Start: 27721, Stop: 28185, Start Num: 49
Candidate Starts for Amohnition_31:
(Start: 41 @27706 has 16 MA's), (Start: 49 @27721 has 12 MA's), (Start: 66 @27751 has 3 MA's), (68, 27754), (80, 27775), (103, 27841), (114, 27868), (129, 27922), (147, 27985), (165, 28063), (168, 28075),

Gene: Amore2_36 Start: 38215, Stop: 38634, Start Num: 60
Candidate Starts for Amore2_36:
(Start: 60 @38215 has 46 MA's), (101, 38287), (107, 38308), (113, 38320), (115, 38326), (144, 38428), (152, 38461), (153, 38467), (162, 38509), (176, 38563), (180, 38578),

Gene: Amymech_34 Start: 29596, Stop: 30006, Start Num: 57
Candidate Starts for Amymech_34:
(Start: 57 @29596 has 26 MA's), (102, 29698), (121, 29764), (125, 29776), (129, 29788), (136, 29809), (159, 29896), (182, 29989),

Gene: AnClar_14 Start: 13769, Stop: 14164, Start Num: 74
Candidate Starts for AnClar_14:
(Start: 74 @13769 has 10 MA's), (Start: 79 @13781 has 18 MA's), (98, 13811), (118, 13883), (139, 13952), (154, 14015), (156, 14021), (175, 14099), (178, 14114), (180, 14120),

Gene: Anamika_33 Start: 39971, Stop: 40408, Start Num: 60
Candidate Starts for Anamika_33:
(Start: 38 @39917 has 21 MA's), (Start: 60 @39971 has 46 MA's), (Start: 66 @39983 has 3 MA's), (80, 40004), (102, 40064), (109, 40085), (150, 40226), (165, 40295),

Gene: AnarQue_16 Start: 14378, Stop: 14779, Start Num: 59
Candidate Starts for AnarQue_16:
(Start: 59 @14378 has 8 MA's), (Start: 86 @14426 has 2 MA's), (114, 14504), (145, 14615), (154, 14651), (156, 14657), (167, 14708), (172, 14726), (178, 14750), (186, 14768), (187, 14771),

Gene: Anaya_33 Start: 27362, Stop: 27811, Start Num: 50
Candidate Starts for Anaya_33:
(31, 27299), (Start: 50 @27362 has 135 MA's), (Start: 66 @27392 has 3 MA's), (70, 27398), (73, 27404), (80, 27416), (99, 27464), (103, 27482), (114, 27509), (129, 27563), (133, 27572), (147, 27626), (152, 27647), (165, 27704), (195, 27803),

Gene: Angelica_32 Start: 27293, Stop: 27733, Start Num: 50

Candidate Starts for Angelica_32:
(31, 27230), (Start: 50 @27293 has 135 MA's), (Start: 66 @27323 has 3 MA's), (70, 27329), (73, 27335), (80, 27347), (99, 27395), (103, 27413), (114, 27440), (129, 27494), (133, 27503), (147, 27557), (152, 27578), (165, 27635), (174, 27668), (195, 27725),

Gene: Anma_32 Start: 27266, Stop: 27706, Start Num: 50
Candidate Starts for Anma_32:
(Start: 41 @27251 has 16 MA's), (Start: 50 @27266 has 135 MA's), (Start: 66 @27296 has 3 MA's), (70, 27302), (73, 27308), (80, 27320), (99, 27368), (103, 27386), (114, 27413), (129, 27467), (133, 27476), (147, 27530), (165, 27608), (174, 27641), (195, 27698), (197, 27701),

Gene: Aphelion_51 Start: 32908, Stop: 33315, Start Num: 90
Candidate Starts for Aphelion_51:
(Start: 90 @32908 has 16 MA's), (107, 32971), (109, 32974), (141, 33076), (165, 33187), (176, 33229), (201, 33304),

Gene: Apocalypse_32 Start: 27314, Stop: 27754, Start Num: 50
Candidate Starts for Apocalypse_32:
(15, 27062), (17, 27077), (31, 27251), (Start: 50 @27314 has 135 MA's), (Start: 66 @27344 has 3 MA's), (70, 27350), (73, 27356), (80, 27368), (99, 27416), (103, 27434), (114, 27461), (129, 27515), (133, 27524), (147, 27578), (152, 27599), (165, 27656), (174, 27689), (195, 27746),

Gene: Applecrisp_30 Start: 27709, Stop: 28173, Start Num: 49
Candidate Starts for Applecrisp_30:
(24, 27586), (Start: 49 @27709 has 12 MA's), (Start: 66 @27739 has 3 MA's), (68, 27742), (76, 27754), (85, 27769), (102, 27823), (103, 27829), (114, 27856), (129, 27910), (147, 27973), (165, 28051),

Gene: Asayake_32 Start: 27377, Stop: 27817, Start Num: 50
Candidate Starts for Asayake_32:
(31, 27314), (Start: 50 @27377 has 135 MA's), (Start: 66 @27407 has 3 MA's), (70, 27413), (73, 27419), (80, 27431), (99, 27479), (103, 27497), (114, 27524), (129, 27578), (133, 27587), (146, 27638), (147, 27641), (152, 27662), (165, 27719), (174, 27752), (195, 27809),

Gene: Athena_18 Start: 15329, Stop: 15763, Start Num: 52
Candidate Starts for Athena_18:
(27, 15224), (Start: 52 @15329 has 55 MA's), (84, 15383), (109, 15449), (163, 15650), (164, 15653),

Gene: Atiba_32 Start: 27306, Stop: 27746, Start Num: 50
Candidate Starts for Atiba_32:
(17, 27069), (31, 27243), (Start: 50 @27306 has 135 MA's), (Start: 66 @27336 has 3 MA's), (70, 27342), (73, 27348), (80, 27360), (99, 27408), (103, 27426), (114, 27453), (129, 27507), (146, 27567), (147, 27570), (152, 27591), (165, 27648), (174, 27681), (195, 27738),

Gene: Audrey_17 Start: 14566, Stop: 15000, Start Num: 52
Candidate Starts for Audrey_17:
(27, 14461), (Start: 52 @14566 has 55 MA's), (84, 14620), (109, 14686), (163, 14887), (164, 14890),

Gene: AuntGwenStacy_33 Start: 30335, Stop: 30691, Start Num: 91
Candidate Starts for AuntGwenStacy_33:
(30, 30185), (Start: 91 @30335 has 5 MA's), (99, 30368), (115, 30416), (118, 30428), (123, 30452), (129, 30467), (136, 30488), (144, 30518), (149, 30539), (150, 30542), (165, 30608), (167, 30617), (170, 30629),

Gene: Austin_36 Start: 38215, Stop: 38634, Start Num: 60
Candidate Starts for Austin_36:
(Start: 60 @38215 has 46 MA's), (101, 38287), (107, 38308), (113, 38320), (115, 38326), (144, 38428), (152, 38461), (153, 38467), (162, 38509), (176, 38563), (180, 38578), (196, 38626),

Gene: Axumite_14 Start: 12949, Stop: 13329, Start Num: 79
Candidate Starts for Axumite_14:
(Start: 79 @12949 has 18 MA's), (109, 13024), (118, 13051), (139, 13120), (156, 13189), (160, 13204), (175, 13267), (178, 13282),

Gene: BEEST_32 Start: 27377, Stop: 27817, Start Num: 50
Candidate Starts for BEEST_32:
(31, 27314), (Start: 50 @27377 has 135 MA's), (Start: 66 @27407 has 3 MA's), (70, 27413), (73, 27419), (80, 27431), (99, 27479), (103, 27497), (114, 27524), (129, 27578), (133, 27587), (146, 27638), (147, 27641), (152, 27662), (165, 27719), (174, 27752), (195, 27809),

Gene: BGlluviae_32 Start: 27377, Stop: 27817, Start Num: 50
Candidate Starts for BGlluviae_32:
(31, 27314), (Start: 50 @27377 has 135 MA's), (Start: 66 @27407 has 3 MA's), (73, 27419), (80, 27431), (99, 27479), (103, 27497), (114, 27524), (129, 27578), (133, 27587), (147, 27641), (152, 27662), (165, 27719), (174, 27752), (195, 27809),

Gene: Bachita_53 Start: 33341, Stop: 33748, Start Num: 90
Candidate Starts for Bachita_53:
(Start: 90 @33341 has 16 MA's), (107, 33404), (109, 33407), (141, 33509), (165, 33620), (176, 33662), (201, 33737),

Gene: BaghaKamala_32 Start: 27306, Stop: 27746, Start Num: 50
Candidate Starts for BaghaKamala_32:
(31, 27243), (Start: 50 @27306 has 135 MA's), (Start: 66 @27336 has 3 MA's), (70, 27342), (73, 27348), (80, 27360), (99, 27408), (103, 27426), (114, 27453), (129, 27507), (133, 27516), (146, 27567), (147, 27570), (152, 27591), (165, 27648), (174, 27681), (195, 27738),

Gene: Baloo_17 Start: 14566, Stop: 14997, Start Num: 52
Candidate Starts for Baloo_17:
(27, 14461), (Start: 52 @14566 has 55 MA's), (84, 14620), (109, 14686), (163, 14887), (164, 14890),

Gene: BananenDer11_31 Start: 27949, Stop: 28398, Start Num: 43
Candidate Starts for BananenDer11_31:
(1, 27433), (2, 27547), (Start: 41 @27946 has 16 MA's), (Start: 43 @27949 has 6 MA's), (Start: 66 @27991 has 3 MA's), (73, 28003), (80, 28015), (99, 28063), (102, 28075), (103, 28081), (111, 28099), (114, 28108), (129, 28162), (133, 28171), (137, 28186), (147, 28225), (149, 28234), (152, 28246), (162, 28291), (164, 28300), (165, 28303), (170, 28324), (174, 28336),

Gene: Bantam_33 Start: 30576, Stop: 30989, Start Num: 79
Candidate Starts for Bantam_33:
(Start: 79 @30576 has 18 MA's), (115, 30666), (120, 30684), (168, 30879),

Gene: Barbochs_32 Start: 37346, Stop: 37867, Start Num: 38
Candidate Starts for Barbochs_32:
(Start: 38 @37346 has 21 MA's), (Start: 60 @37400 has 46 MA's), (Start: 66 @37412 has 3 MA's), (80, 37433), (102, 37493), (111, 37517), (136, 37601), (149, 37652), (152, 37664), (165, 37724), (180, 37781), (192, 37814), (196, 37829),

Gene: BarrelRoll_32 Start: 27329, Stop: 27769, Start Num: 50
Candidate Starts for BarrelRoll_32:
(16, 27080), (17, 27092), (31, 27266), (Start: 50 @27329 has 135 MA's), (Start: 66 @27359 has 3 MA's), (70, 27365), (73, 27371), (80, 27383), (99, 27431), (103, 27449), (114, 27476), (129, 27530), (146, 27590), (147, 27593), (152, 27614), (165, 27671), (174, 27704), (195, 27761),

Gene: Beaver_36 Start: 39448, Stop: 39915, Start Num: 60
Candidate Starts for Beaver_36:
(Start: 38 @39394 has 21 MA's), (Start: 60 @39448 has 46 MA's), (Start: 66 @39460 has 3 MA's), (80, 39481), (111, 39565), (136, 39649), (149, 39700), (152, 39712), (165, 39772), (180, 39829), (192, 39862), (196, 39877),

Gene: Beckerton_35 Start: 32917, Stop: 33378, Start Num: 58
Candidate Starts for Beckerton_35:
(Start: 58 @32917 has 10 MA's), (Start: 64 @32929 has 11 MA's), (78, 32953), (93, 32980), (106, 33037), (107, 33040), (111, 33046), (113, 33052), (116, 33061), (118, 33070), (121, 33088), (136, 33133), (137, 33136), (146, 33172), (155, 33208), (160, 33226), (171, 33277), (181, 33313),

Gene: Beezoo_32 Start: 27354, Stop: 27794, Start Num: 50
Candidate Starts for Beezoo_32:
(17, 27117), (31, 27291), (Start: 50 @27354 has 135 MA's), (Start: 66 @27384 has 3 MA's), (70, 27390), (73, 27396), (80, 27408), (99, 27456), (103, 27474), (114, 27501), (129, 27555), (133, 27564), (147, 27618), (152, 27639), (165, 27696), (174, 27729), (195, 27786),

Gene: Bella96_32 Start: 27247, Stop: 27687, Start Num: 50
Candidate Starts for Bella96_32:
(6, 26920), (14, 26986), (31, 27184), (Start: 50 @27247 has 135 MA's), (Start: 66 @27277 has 3 MA's), (70, 27283), (73, 27289), (80, 27301), (99, 27349), (103, 27367), (114, 27394), (129, 27448), (133, 27457), (147, 27511), (165, 27589), (174, 27622), (195, 27679),

Gene: Belladonna_32 Start: 27377, Stop: 27817, Start Num: 50
Candidate Starts for Belladonna_32:
(31, 27314), (Start: 50 @27377 has 135 MA's), (Start: 66 @27407 has 3 MA's), (70, 27413), (73, 27419), (80, 27431), (99, 27479), (103, 27497), (114, 27524), (129, 27578), (133, 27587), (147, 27641), (152, 27662), (165, 27719), (174, 27752), (195, 27809),

Gene: Ben11_16 Start: 14390, Stop: 14824, Start Num: 52
Candidate Starts for Ben11_16:
(27, 14285), (Start: 52 @14390 has 55 MA's), (84, 14444), (109, 14510), (163, 14711), (164, 14714),

Gene: Benczkowski14_31 Start: 39098, Stop: 39532, Start Num: 64
Candidate Starts for Benczkowski14_31:
(Start: 64 @39098 has 11 MA's), (80, 39119), (94, 39137), (101, 39170), (146, 39320), (150, 39335), (163, 39395), (165, 39401), (166, 39407), (190, 39482),

Gene: BenoitCattle_32 Start: 37503, Stop: 37970, Start Num: 60
Candidate Starts for BenoitCattle_32:
(Start: 38 @37449 has 21 MA's), (Start: 60 @37503 has 46 MA's), (Start: 66 @37515 has 3 MA's), (80, 37536), (111, 37620), (113, 37626), (136, 37704), (149, 37755), (165, 37827), (180, 37884), (190, 37908), (192, 37917), (198, 37935),

Gene: Bern_32 Start: 27286, Stop: 27726, Start Num: 50

Candidate Starts for Bern_32:
(17, 27049), (31, 27223), (Start: 50 @27286 has 135 MA's), (Start: 66 @27316 has 3 MA's), (70, 27322), (73, 27328), (80, 27340), (99, 27388), (103, 27406), (114, 27433), (129, 27487), (133, 27496), (147, 27550), (165, 27628),

Gene: Bernardo_17 Start: 14565, Stop: 14999, Start Num: 52
Candidate Starts for Bernardo_17:
(27, 14460), (Start: 52 @14565 has 55 MA's), (84, 14619), (109, 14685), (163, 14886), (164, 14889),

Gene: Berries_33 Start: 39941, Stop: 40378, Start Num: 60
Candidate Starts for Berries_33:
(Start: 38 @39887 has 21 MA's), (Start: 60 @39941 has 46 MA's), (Start: 66 @39953 has 3 MA's), (80, 39974), (102, 40034), (109, 40055), (150, 40196), (165, 40265),

Gene: Bianmat_33 Start: 39981, Stop: 40418, Start Num: 60
Candidate Starts for Bianmat_33:
(Start: 38 @39927 has 21 MA's), (Start: 60 @39981 has 46 MA's), (Start: 66 @39993 has 3 MA's), (80, 40014), (102, 40074), (109, 40095), (150, 40236), (165, 40305),

Gene: BigShaq_32 Start: 37454, Stop: 37975, Start Num: 38
Candidate Starts for BigShaq_32:
(Start: 38 @37454 has 21 MA's), (Start: 60 @37508 has 46 MA's), (Start: 66 @37520 has 3 MA's), (80, 37541), (87, 37550), (111, 37625), (113, 37631), (136, 37709), (149, 37760), (165, 37832), (180, 37889), (190, 37913), (192, 37922), (198, 37940),

Gene: BiggityBass_13 Start: 12863, Stop: 13258, Start Num: 74
Candidate Starts for BiggityBass_13:
(Start: 74 @12863 has 10 MA's), (Start: 79 @12875 has 18 MA's), (98, 12905), (105, 12941), (118, 12977), (139, 13046), (154, 13109), (156, 13115), (175, 13193), (178, 13208), (180, 13214),

Gene: Biglebops_28 Start: 26747, Stop: 27205, Start Num: 50
Candidate Starts for Biglebops_28:
(21, 26528), (Start: 50 @26747 has 135 MA's), (Start: 66 @26777 has 3 MA's), (70, 26783), (80, 26801), (102, 26861), (111, 26885), (114, 26894), (115, 26897), (118, 26909), (129, 26948), (133, 26957), (134, 26960), (147, 27011), (152, 27032), (156, 27047), (165, 27089), (168, 27101),

Gene: BillyBobJr_37 Start: 39479, Stop: 39946, Start Num: 60
Candidate Starts for BillyBobJr_37:
(Start: 38 @39425 has 21 MA's), (Start: 60 @39479 has 46 MA's), (Start: 66 @39491 has 3 MA's), (80, 39512), (102, 39572), (111, 39596), (149, 39731), (152, 39743), (165, 39803), (180, 39860), (192, 39893), (196, 39908),

Gene: Bipper_36 Start: 31123, Stop: 31452, Start Num: 91
Candidate Starts for Bipper_36:
(42, 31051), (55, 31069), (Start: 75 @31099 has 1 MA's), (Start: 91 @31123 has 5 MA's), (102, 31168), (113, 31198), (118, 31216), (124, 31243), (129, 31255), (130, 31258), (133, 31264), (136, 31276), (150, 31330), (158, 31360), (166, 31402), (167, 31405), (170, 31417),

Gene: BirksAndSocks_36 Start: 39372, Stop: 39893, Start Num: 38
Candidate Starts for BirksAndSocks_36:
(Start: 38 @39372 has 21 MA's), (Start: 60 @39426 has 46 MA's), (Start: 66 @39438 has 3 MA's), (80, 39459), (102, 39519), (111, 39543), (136, 39627), (149, 39678), (152, 39690), (165, 39750), (180, 39807), (192, 39840), (196, 39855),

Gene: Blackpen_16 Start: 13795, Stop: 14196, Start Num: 59
Candidate Starts for Blackpen_16:
(Start: 59 @13795 has 8 MA's), (69, 13816), (Start: 86 @13843 has 2 MA's), (114, 13921), (145, 14032), (152, 14059), (154, 14068), (156, 14074), (167, 14125), (172, 14143), (178, 14167), (186, 14185), (187, 14188),

Gene: Blizzard_32 Start: 27377, Stop: 27817, Start Num: 50
Candidate Starts for Blizzard_32:
(31, 27314), (Start: 50 @27377 has 135 MA's), (Start: 66 @27407 has 3 MA's), (70, 27413), (73, 27419), (80, 27431), (99, 27479), (103, 27497), (114, 27524), (129, 27578), (133, 27587), (146, 27638), (147, 27641), (152, 27662), (165, 27719), (174, 27752), (195, 27809),

Gene: BloominB_33 Start: 29596, Stop: 30006, Start Num: 57
Candidate Starts for BloominB_33:
(Start: 57 @29596 has 26 MA's), (102, 29698), (121, 29764), (125, 29776), (129, 29788), (136, 29809), (159, 29896), (182, 29989),

Gene: BobRoss2024_13 Start: 12784, Stop: 13155, Start Num: 74
Candidate Starts for BobRoss2024_13:
(Start: 71 @12781 has 7 MA's), (Start: 74 @12784 has 10 MA's), (133, 12943), (154, 13027), (156, 13033), (160, 13048), (161, 13057), (167, 13084), (178, 13126),

Gene: Bobquesha_34 Start: 28211, Stop: 28609, Start Num: 67
Candidate Starts for Bobquesha_34:
(7, 27833), (10, 27842), (18, 27923), (28, 28091), (Start: 67 @28211 has 23 MA's), (80, 28232), (87, 28241), (115, 28328), (118, 28340), (133, 28388), (137, 28403), (139, 28409), (143, 28427), (149, 28451), (154, 28472), (162, 28508), (166, 28526), (167, 28529), (185, 28589),

Gene: BobtimousPrime_37 Start: 32837, Stop: 33298, Start Num: 58
Candidate Starts for BobtimousPrime_37:
(Start: 58 @32837 has 10 MA's), (Start: 64 @32849 has 11 MA's), (78, 32873), (93, 32900), (104, 32951), (106, 32957), (107, 32960), (111, 32966), (113, 32972), (116, 32981), (118, 32990), (121, 33008), (136, 33053), (137, 33056), (146, 33092), (155, 33128), (160, 33146), (171, 33197), (181, 33233), (196, 33278),

Gene: Boiiii_32 Start: 27379, Stop: 27819, Start Num: 50
Candidate Starts for Boiiii_32:
(31, 27316), (Start: 50 @27379 has 135 MA's), (Start: 66 @27409 has 3 MA's), (70, 27415), (73, 27421), (80, 27433), (99, 27481), (103, 27499), (114, 27526), (129, 27580), (133, 27589), (146, 27640), (147, 27643), (152, 27664), (165, 27721), (174, 27754), (195, 27811),

Gene: Boilgate_29 Start: 29197, Stop: 29595, Start Num: 67
Candidate Starts for Boilgate_29:
(37, 29137), (Start: 67 @29197 has 23 MA's), (87, 29227), (99, 29266), (114, 29311), (115, 29314), (139, 29395), (149, 29437), (154, 29458), (158, 29470), (160, 29479), (166, 29512), (174, 29539), (185, 29575),

Gene: Boneham_36 Start: 39371, Stop: 39892, Start Num: 38
Candidate Starts for Boneham_36:
(Start: 38 @39371 has 21 MA's), (Start: 60 @39425 has 46 MA's), (Start: 66 @39437 has 3 MA's), (80, 39458), (102, 39518), (111, 39542), (136, 39626), (149, 39677), (152, 39689), (165, 39749), (180, 39806), (192, 39839), (196, 39854),

Gene: BoostSeason_31 Start: 26116, Stop: 26502, Start Num: 89
Candidate Starts for BoostSeason_31:
(Start: 89 @26116 has 11 MA's), (Start: 91 @26119 has 5 MA's), (114, 26197), (117, 26206), (118, 26212), (122, 26233), (126, 26242), (128, 26248), (129, 26251), (133, 26260), (149, 26323), (154, 26344), (159, 26362), (160, 26365),

Gene: Breezic_32 Start: 37360, Stop: 37881, Start Num: 38
Candidate Starts for Breezic_32:
(Start: 38 @37360 has 21 MA's), (Start: 60 @37414 has 46 MA's), (Start: 66 @37426 has 3 MA's), (80, 37447), (104, 37516), (111, 37531), (136, 37615), (149, 37666), (152, 37678), (165, 37738), (180, 37795), (192, 37828), (196, 37843),

Gene: Briakila_17 Start: 15331, Stop: 15765, Start Num: 52
Candidate Starts for Briakila_17:
(27, 15226), (Start: 52 @15331 has 55 MA's), (84, 15385), (109, 15451), (163, 15652), (164, 15655),

Gene: BrutonGaster_40 Start: 30025, Stop: 30432, Start Num: 90
Candidate Starts for BrutonGaster_40:
(Start: 90 @30025 has 16 MA's), (136, 30178), (141, 30193), (143, 30205), (165, 30304), (176, 30346),

Gene: Bryler_32 Start: 26627, Stop: 27091, Start Num: 50
Candidate Starts for Bryler_32:
(Start: 50 @26627 has 135 MA's), (62, 26648), (Start: 66 @26657 has 3 MA's), (68, 26660), (85, 26687), (102, 26741), (103, 26747), (114, 26774), (129, 26828), (150, 26903), (165, 26969), (187, 27044),

Gene: Butterball_36 Start: 39425, Stop: 39892, Start Num: 60
Candidate Starts for Butterball_36:
(Start: 38 @39371 has 21 MA's), (Start: 60 @39425 has 46 MA's), (Start: 66 @39437 has 3 MA's), (80, 39458), (102, 39518), (111, 39542), (136, 39626), (149, 39677), (152, 39689), (165, 39749), (180, 39806), (192, 39839), (196, 39854),

Gene: CREW_32 Start: 27377, Stop: 27817, Start Num: 50
Candidate Starts for CREW_32:
(31, 27314), (Start: 50 @27377 has 135 MA's), (Start: 66 @27407 has 3 MA's), (70, 27413), (73, 27419), (80, 27431), (99, 27479), (103, 27497), (114, 27524), (129, 27578), (133, 27587), (147, 27641), (152, 27662), (165, 27719), (174, 27752), (195, 27809),

Gene: Cafasso_31 Start: 27121, Stop: 27480, Start Num: 71
Candidate Starts for Cafasso_31:
(Start: 71 @27121 has 7 MA's), (Start: 77 @27127 has 1 MA's), (112, 27214), (138, 27304), (142, 27316), (156, 27373),

Gene: CaiB_16 Start: 14363, Stop: 14764, Start Num: 59
Candidate Starts for CaiB_16:
(Start: 59 @14363 has 8 MA's), (Start: 86 @14411 has 2 MA's), (114, 14489), (145, 14600), (152, 14627), (154, 14636), (156, 14642), (167, 14693), (172, 14711), (178, 14735), (186, 14753), (187, 14756),

Gene: Cain_32 Start: 26615, Stop: 27079, Start Num: 50
Candidate Starts for Cain_32:

(Start: 50 @26615 has 135 MA's), (62, 26636), (Start: 66 @26645 has 3 MA's), (68, 26648), (85, 26675), (102, 26729), (103, 26735), (114, 26762), (129, 26816), (150, 26891), (165, 26957), (187, 27032),

Gene: CallaLilly_32 Start: 27300, Stop: 27740, Start Num: 50
Candidate Starts for CallaLilly_32:
(31, 27237), (Start: 50 @27300 has 135 MA's), (Start: 66 @27330 has 3 MA's), (70, 27336), (73, 27342), (80, 27354), (99, 27402), (103, 27420), (114, 27447), (129, 27501), (133, 27510), (147, 27564), (152, 27585), (165, 27642), (174, 27675), (195, 27732),

Gene: Camerico_37 Start: 41920, Stop: 42348, Start Num: 60
Candidate Starts for Camerico_37:
(Start: 60 @41920 has 46 MA's), (101, 42013), (118, 42064), (125, 42094), (133, 42112), (134, 42115), (154, 42196), (165, 42244), (171, 42268), (176, 42286), (177, 42292), (180, 42301), (189, 42322),

Gene: Capricorn_32 Start: 27377, Stop: 27817, Start Num: 50
Candidate Starts for Capricorn_32:
(31, 27314), (Start: 50 @27377 has 135 MA's), (Start: 66 @27407 has 3 MA's), (70, 27413), (73, 27419), (80, 27431), (99, 27479), (103, 27497), (114, 27524), (129, 27578), (133, 27587), (147, 27641), (152, 27662), (165, 27719), (174, 27752), (195, 27809),

Gene: Cardigan_50 Start: 36197, Stop: 36607, Start Num: 57
Candidate Starts for Cardigan_50:
(3, 35792), (4, 35795), (5, 35819), (9, 35843), (24, 36044), (26, 36080), (29, 36098), (32, 36110), (33, 36116), (35, 36119), (Start: 57 @36197 has 26 MA's), (106, 36308), (118, 36341), (123, 36365), (167, 36530),

Gene: Casbah_16 Start: 14418, Stop: 14852, Start Num: 52
Candidate Starts for Casbah_16:
(27, 14313), (Start: 52 @14418 has 55 MA's), (84, 14472), (109, 14538), (163, 14739), (164, 14742),

Gene: CaseJules_32 Start: 27377, Stop: 27817, Start Num: 50
Candidate Starts for CaseJules_32:
(31, 27314), (Start: 50 @27377 has 135 MA's), (Start: 66 @27407 has 3 MA's), (70, 27413), (73, 27419), (80, 27431), (99, 27479), (103, 27497), (114, 27524), (129, 27578), (133, 27587), (146, 27638), (147, 27641), (152, 27662), (165, 27719), (174, 27752), (195, 27809),

Gene: Caterpie_12 Start: 11772, Stop: 12167, Start Num: 52
Candidate Starts for Caterpie_12:
(Start: 52 @11772 has 55 MA's), (Start: 71 @11805 has 7 MA's), (105, 11883), (136, 11979), (149, 12030), (151, 12036), (152, 12042), (154, 12051), (163, 12093),

Gene: CathyBurgh_32 Start: 38214, Stop: 38735, Start Num: 38
Candidate Starts for CathyBurgh_32:
(Start: 38 @38214 has 21 MA's), (Start: 60 @38268 has 46 MA's), (Start: 66 @38280 has 3 MA's), (80, 38301), (111, 38385), (136, 38469), (149, 38520), (152, 38532), (165, 38592), (180, 38649), (192, 38682), (196, 38697),

Gene: Cborch11_36 Start: 32382, Stop: 32843, Start Num: 58
Candidate Starts for Cborch11_36:
(Start: 58 @32382 has 10 MA's), (Start: 64 @32394 has 11 MA's), (78, 32418), (93, 32445), (106, 32502), (111, 32511), (113, 32517), (116, 32526), (118, 32535), (121, 32553), (136, 32598), (137, 32601), (146, 32637), (155, 32673), (160, 32691), (171, 32742), (181, 32778),

Gene: ChaChing_17 Start: 14581, Stop: 14964, Start Num: 52
Candidate Starts for ChaChing_17:
(27, 14476), (Start: 52 @14581 has 55 MA's), (84, 14635), (109, 14701), (163, 14902), (164, 14905),

Gene: Chalmers_17 Start: 15374, Stop: 15808, Start Num: 52
Candidate Starts for Chalmers_17:
(27, 15269), (Start: 52 @15374 has 55 MA's), (84, 15428), (109, 15494), (163, 15695), (164, 15698),

Gene: Chancellor_33 Start: 28471, Stop: 28869, Start Num: 67
Candidate Starts for Chancellor_33:
(Start: 67 @28471 has 23 MA's), (80, 28492), (87, 28501), (115, 28588), (119, 28603), (137, 28663), (139, 28669), (143, 28687), (149, 28711), (154, 28732), (158, 28744), (160, 28753), (162, 28768), (167, 28789), (185, 28849),

Gene: Chandler_17 Start: 15340, Stop: 15774, Start Num: 52
Candidate Starts for Chandler_17:
(27, 15235), (Start: 52 @15340 has 55 MA's), (84, 15394), (109, 15460), (163, 15661), (164, 15664),

Gene: Charianelly_33 Start: 39691, Stop: 40128, Start Num: 60
Candidate Starts for Charianelly_33:
(Start: 38 @39637 has 21 MA's), (Start: 60 @39691 has 46 MA's), (Start: 66 @39703 has 3 MA's), (80, 39724), (102, 39784), (109, 39805), (150, 39946), (165, 40015),

Gene: CharlottesWeb_14 Start: 12853, Stop: 13239, Start Num: 74
Candidate Starts for CharlottesWeb_14:
(Start: 74 @12853 has 10 MA's), (Start: 79 @12865 has 18 MA's), (105, 12931), (118, 12967), (139, 13036), (156, 13105), (160, 13120), (183, 13210),

Gene: Chavito_32 Start: 26970, Stop: 27398, Start Num: 70
Candidate Starts for Chavito_32:
(Start: 50 @26934 has 135 MA's), (Start: 66 @26964 has 3 MA's), (70, 26970), (73, 26976), (80, 26988), (99, 27036), (102, 27048), (114, 27081), (115, 27084), (129, 27135), (147, 27198), (152, 27219), (165, 27276),

Gene: CheetoDust_32 Start: 27354, Stop: 27794, Start Num: 50
Candidate Starts for CheetoDust_32:
(12, 27069), (17, 27117), (20, 27123), (31, 27291), (Start: 50 @27354 has 135 MA's), (Start: 66 @27384 has 3 MA's), (70, 27390), (73, 27396), (80, 27408), (99, 27456), (103, 27474), (114, 27501), (129, 27555), (133, 27564), (147, 27618), (152, 27639), (165, 27696), (174, 27729), (195, 27786),

Gene: Cheetobro_33 Start: 28468, Stop: 28866, Start Num: 67
Candidate Starts for Cheetobro_33:
(Start: 67 @28468 has 23 MA's), (80, 28489), (87, 28498), (115, 28585), (119, 28600), (137, 28660), (139, 28666), (143, 28684), (149, 28708), (154, 28729), (158, 28741), (160, 28750), (162, 28765), (167, 28786), (185, 28846),

Gene: Chelms_32 Start: 37457, Stop: 37978, Start Num: 38
Candidate Starts for Chelms_32:
(Start: 38 @37457 has 21 MA's), (Start: 60 @37511 has 46 MA's), (Start: 66 @37523 has 3 MA's), (80, 37544), (111, 37628), (113, 37634), (136, 37712), (149, 37763), (165, 37835), (180, 37892), (190, 37916), (192, 37925), (198, 37943),

Gene: Chentzyk_16 Start: 14436, Stop: 14870, Start Num: 52
Candidate Starts for Chentzyk_16:
(27, 14331), (Start: 52 @14436 has 55 MA's), (84, 14490), (109, 14556), (163, 14757), (164, 14760),

Gene: CherryTomatoes_174 Start: 126292, Stop: 126711, Start Num: 61
Candidate Starts for CherryTomatoes_174:
(Start: 61 @126292 has 4 MA's), (107, 126406), (112, 126415), (149, 126547), (155, 126571), (166, 126622), (169, 126634), (173, 126646),

Gene: Chris_31 Start: 26496, Stop: 26951, Start Num: 49
Candidate Starts for Chris_31:
(Start: 49 @26496 has 12 MA's), (Start: 66 @26526 has 3 MA's), (68, 26529), (82, 26553), (103, 26616), (114, 26643), (129, 26697), (150, 26772), (162, 26826), (165, 26838), (169, 26856),

Gene: CinnamonToast_37 Start: 39479, Stop: 39946, Start Num: 60
Candidate Starts for CinnamonToast_37:
(Start: 38 @39425 has 21 MA's), (Start: 60 @39479 has 46 MA's), (Start: 66 @39491 has 3 MA's), (80, 39512), (102, 39572), (111, 39596), (149, 39731), (152, 39743), (165, 39803), (180, 39860), (192, 39893), (196, 39908),

Gene: Clipper_32 Start: 27354, Stop: 27794, Start Num: 50
Candidate Starts for Clipper_32:
(31, 27291), (Start: 50 @27354 has 135 MA's), (Start: 66 @27384 has 3 MA's), (70, 27390), (73, 27396), (80, 27408), (99, 27456), (103, 27474), (114, 27501), (129, 27555), (133, 27564), (147, 27618), (152, 27639), (165, 27696), (174, 27729), (195, 27786),

Gene: CloverMinnie_16 Start: 14303, Stop: 14704, Start Num: 59
Candidate Starts for CloverMinnie_16:
(28, 14198), (Start: 59 @14303 has 8 MA's), (69, 14324), (Start: 86 @14351 has 2 MA's), (114, 14429), (145, 14540), (152, 14567), (154, 14576), (156, 14582), (167, 14633), (172, 14651), (178, 14675), (186, 14693), (187, 14696),

Gene: ClubL_51 Start: 32830, Stop: 33237, Start Num: 90
Candidate Starts for ClubL_51:
(Start: 90 @32830 has 16 MA's), (107, 32893), (109, 32896), (141, 32998), (165, 33109), (176, 33151), (201, 33226),

Gene: Coco2012_14 Start: 12850, Stop: 13236, Start Num: 74
Candidate Starts for Coco2012_14:
(Start: 74 @12850 has 10 MA's), (Start: 79 @12862 has 18 MA's), (105, 12928), (118, 12964), (139, 13033), (156, 13102), (160, 13117), (183, 13207),

Gene: Coldpizza_16 Start: 14928, Stop: 15302, Start Num: 77
Candidate Starts for Coldpizza_16:
(36, 14823), (Start: 77 @14928 has 1 MA's), (114, 15027), (115, 15030), (145, 15138), (150, 15156), (152, 15165), (154, 15174), (156, 15180), (163, 15216), (167, 15231), (177, 15270),

Gene: Collard_31 Start: 27949, Stop: 28398, Start Num: 43
Candidate Starts for Collard_31:
(1, 27433), (2, 27547), (Start: 41 @27946 has 16 MA's), (Start: 43 @27949 has 6 MA's), (Start: 66 @27991 has 3 MA's), (73, 28003), (80, 28015), (99, 28063), (102, 28075), (103, 28081), (111, 28099), (114, 28108), (129, 28162), (133, 28171), (137, 28186), (147, 28225), (149, 28234), (152, 28246), (162, 28291), (164, 28300), (165, 28303), (170, 28324), (174, 28336),

Gene: Colossa_29 Start: 25214, Stop: 25555, Start Num: 79
Candidate Starts for Colossa_29:
(Start: 79 @25214 has 18 MA's), (104, 25268), (149, 25421), (166, 25496),

Gene: Compostia_18 Start: 14999, Stop: 15433, Start Num: 52
Candidate Starts for Compostia_18:
(27, 14894), (Start: 52 @14999 has 55 MA's), (84, 15053), (109, 15119), (163, 15320), (164, 15323),

Gene: Corofin_17 Start: 14591, Stop: 15025, Start Num: 52
Candidate Starts for Corofin_17:
(27, 14486), (Start: 52 @14591 has 55 MA's), (84, 14645), (109, 14711), (163, 14912), (164, 14915),

Gene: Cracklewink_36 Start: 31099, Stop: 31452, Start Num: 75
Candidate Starts for Cracklewink_36:
(42, 31051), (55, 31069), (Start: 75 @31099 has 1 MA's), (Start: 91 @31123 has 5 MA's), (102, 31168), (113, 31198), (118, 31216), (124, 31243), (129, 31255), (130, 31258), (133, 31264), (136, 31276), (150, 31330), (158, 31360), (166, 31402), (167, 31405), (170, 31417),

Gene: Crete_33 Start: 37774, Stop: 38241, Start Num: 60
Candidate Starts for Crete_33:
(Start: 38 @37720 has 21 MA's), (Start: 60 @37774 has 46 MA's), (Start: 66 @37786 has 3 MA's), (80, 37807), (111, 37891), (113, 37897), (136, 37975), (149, 38026), (165, 38098), (180, 38155), (190, 38179), (192, 38188), (198, 38206),

Gene: CrimD_32 Start: 27314, Stop: 27754, Start Num: 50
Candidate Starts for CrimD_32:
(6, 26987), (17, 27077), (31, 27251), (Start: 50 @27314 has 135 MA's), (Start: 66 @27344 has 3 MA's), (70, 27350), (73, 27356), (80, 27368), (99, 27416), (103, 27434), (114, 27461), (129, 27515), (133, 27524), (147, 27578), (165, 27656), (174, 27689), (195, 27746),

Gene: Cucurbita_53 Start: 34200, Stop: 34607, Start Num: 90
Candidate Starts for Cucurbita_53:
(Start: 90 @34200 has 16 MA's), (107, 34263), (109, 34266), (141, 34368), (165, 34479), (176, 34521), (201, 34596),

Gene: Cuke_27 Start: 25711, Stop: 26124, Start Num: 74
Candidate Starts for Cuke_27:
(44, 25657), (Start: 64 @25693 has 11 MA's), (Start: 74 @25711 has 10 MA's), (81, 25720), (84, 25723), (96, 25744), (101, 25777), (105, 25792), (114, 25813), (121, 25846), (137, 25891), (152, 25951), (162, 25999), (182, 26074), (187, 26086), (193, 26104),

Gene: Culver_51 Start: 32639, Stop: 33046, Start Num: 90
Candidate Starts for Culver_51:
(Start: 90 @32639 has 16 MA's), (107, 32702), (109, 32705), (141, 32807), (165, 32918), (176, 32960), (201, 33035),

Gene: Curiosium_33 Start: 27140, Stop: 27580, Start Num: 50
Candidate Starts for Curiosium_33:
(8, 26840), (11, 26852), (19, 26906), (24, 27017), (31, 27077), (Start: 50 @27140 has 135 MA's), (Start: 66 @27170 has 3 MA's), (70, 27176), (73, 27182), (80, 27194), (99, 27242), (102, 27254), (114, 27287), (115, 27290), (129, 27341), (133, 27350), (147, 27404), (152, 27425), (165, 27482), (179, 27536),

Gene: Dadosky_32 Start: 27920, Stop: 28369, Start Num: 43
Candidate Starts for Dadosky_32:
(Start: 41 @27917 has 16 MA's), (Start: 43 @27920 has 6 MA's), (Start: 66 @27962 has 3 MA's), (73, 27974), (80, 27986), (99, 28034), (102, 28046), (103, 28052), (111, 28070), (114, 28079), (133, 28142), (137, 28157), (147, 28196), (149, 28205), (152, 28217), (164, 28271), (165, 28274), (170, 28295), (174, 28307),

Gene: Daegal_35 Start: 29890, Stop: 30300, Start Num: 57
Candidate Starts for Daegal_35:
(Start: 57 @29890 has 26 MA's), (102, 29992), (121, 30058), (125, 30070), (129, 30082), (136, 30103), (159, 30190), (182, 30283),

Gene: Daisy_17 Start: 14587, Stop: 15021, Start Num: 52
Candidate Starts for Daisy_17:
(27, 14482), (Start: 52 @14587 has 55 MA's), (84, 14641), (109, 14707), (163, 14908), (164, 14911),

Gene: Dakiti_32 Start: 38325, Stop: 38846, Start Num: 38
Candidate Starts for Dakiti_32:
(Start: 38 @38325 has 21 MA's), (Start: 60 @38379 has 46 MA's), (Start: 66 @38391 has 3 MA's), (80, 38412), (111, 38496), (113, 38502), (136, 38580), (149, 38631), (165, 38703), (180, 38760), (190, 38784), (192, 38793), (198, 38811),

Gene: Dalmuri_32 Start: 27377, Stop: 27817, Start Num: 50
Candidate Starts for Dalmuri_32:
(31, 27314), (Start: 50 @27377 has 135 MA's), (Start: 66 @27407 has 3 MA's), (70, 27413), (73, 27419), (80, 27431), (99, 27479), (103, 27497), (114, 27524), (129, 27578), (133, 27587), (147, 27641), (152, 27662), (165, 27719), (174, 27752), (195, 27809),

Gene: Damien_35 Start: 32383, Stop: 32844, Start Num: 58
Candidate Starts for Damien_35:
(Start: 58 @32383 has 10 MA's), (Start: 64 @32395 has 11 MA's), (78, 32419), (93, 32446), (106, 32503), (107, 32506), (111, 32512), (113, 32518), (116, 32527), (118, 32536), (121, 32554), (136, 32599), (137, 32602), (146, 32638), (155, 32674), (160, 32692), (171, 32743), (181, 32779),

Gene: Damp_33 Start: 38855, Stop: 39292, Start Num: 60
Candidate Starts for Damp_33:
(Start: 38 @38801 has 21 MA's), (Start: 60 @38855 has 46 MA's), (Start: 66 @38867 has 3 MA's), (80, 38888), (102, 38948), (109, 38969), (150, 39110), (165, 39179),

Gene: DanSyl44_36 Start: 29337, Stop: 29735, Start Num: 67
Candidate Starts for DanSyl44_36:
(28, 29217), (Start: 67 @29337 has 23 MA's), (80, 29358), (87, 29367), (115, 29454), (119, 29469), (137, 29529), (139, 29535), (143, 29553), (149, 29577), (154, 29598), (158, 29610), (160, 29619), (162, 29634), (167, 29655), (185, 29715),

Gene: Daredevil_32 Start: 29087, Stop: 29497, Start Num: 79
Candidate Starts for Daredevil_32:
(Start: 79 @29087 has 18 MA's), (121, 29213), (160, 29348), (187, 29447),

Gene: DartGoblin_32 Start: 27241, Stop: 27681, Start Num: 50
Candidate Starts for DartGoblin_32:

(6, 26914), (14, 26980), (31, 27178), (Start: 50 @27241 has 135 MA's), (Start: 66 @27271 has 3 MA's), (70, 27277), (73, 27283), (80, 27295), (99, 27343), (103, 27361), (114, 27388), (129, 27442), (133, 27451), (147, 27505), (165, 27583), (174, 27616), (195, 27673),

Gene: DarthP_31 Start: 27643, Stop: 28107, Start Num: 49
Candidate Starts for DarthP_31:
(Start: 41 @27628 has 16 MA's), (Start: 49 @27643 has 12 MA's), (Start: 66 @27673 has 3 MA's), (68, 27676), (80, 27697), (103, 27763), (114, 27790), (129, 27844), (147, 27907), (165, 27985), (168, 27997),

Gene: Dartin_32 Start: 26622, Stop: 27086, Start Num: 50
Candidate Starts for Dartin_32:
(24, 26496), (25, 26523), (Start: 50 @26622 has 135 MA's), (Start: 66 @26652 has 3 MA's), (70, 26658), (73, 26664), (80, 26676), (99, 26724), (102, 26736), (114, 26769), (115, 26772), (129, 26823), (147, 26886), (152, 26907), (156, 26922), (162, 26952), (165, 26964), (168, 26976),

Gene: DatBoi_34 Start: 31309, Stop: 31719, Start Num: 79
Candidate Starts for DatBoi_34:
(Start: 79 @31309 has 18 MA's), (115, 31399), (139, 31486), (160, 31570), (168, 31609),

Gene: Deby_32 Start: 27311, Stop: 27751, Start Num: 50
Candidate Starts for Deby_32:
(31, 27248), (Start: 50 @27311 has 135 MA's), (Start: 66 @27341 has 3 MA's), (70, 27347), (73, 27353), (80, 27365), (99, 27413), (103, 27431), (114, 27458), (129, 27512), (133, 27521), (147, 27575), (152, 27596), (165, 27653), (174, 27686), (195, 27743),

Gene: Deenasa_17 Start: 15329, Stop: 15763, Start Num: 52
Candidate Starts for Deenasa_17:
(27, 15224), (Start: 52 @15329 has 55 MA's), (84, 15383), (109, 15449), (163, 15650), (164, 15653),

Gene: DeepSoil15_34 Start: 29596, Stop: 30006, Start Num: 57
Candidate Starts for DeepSoil15_34:
(Start: 57 @29596 has 26 MA's), (102, 29698), (121, 29764), (125, 29776), (129, 29788), (136, 29809), (159, 29896), (182, 29989),

Gene: Demosthenes_31 Start: 39018, Stop: 39470, Start Num: 46
Candidate Starts for Demosthenes_31:
(Start: 46 @39018 has 3 MA's), (97, 39078), (101, 39105), (105, 39120), (132, 39204), (140, 39228), (150, 39270), (154, 39288), (157, 39297), (166, 39342), (190, 39417),

Gene: Devera_32 Start: 27351, Stop: 27791, Start Num: 50
Candidate Starts for Devera_32:
(Start: 50 @27351 has 135 MA's), (Start: 66 @27381 has 3 MA's), (70, 27387), (73, 27393), (80, 27405), (99, 27453), (103, 27471), (114, 27498), (123, 27537), (129, 27552), (133, 27561), (147, 27615), (165, 27693), (195, 27783),

Gene: Devonte_17 Start: 14566, Stop: 15000, Start Num: 52
Candidate Starts for Devonte_17:
(27, 14461), (Start: 52 @14566 has 55 MA's), (84, 14620), (109, 14686), (163, 14887), (164, 14890),

Gene: Dewey_33 Start: 29596, Stop: 30006, Start Num: 57
Candidate Starts for Dewey_33:

(Start: 57 @29596 has 26 MA's), (102, 29698), (121, 29764), (125, 29776), (129, 29788), (136, 29809), (159, 29896), (182, 29989),

Gene: Diabla_35 Start: 39281, Stop: 39739, Start Num: 60
Candidate Starts for Diabla_35:
(Start: 38 @39227 has 21 MA's), (45, 39254), (Start: 60 @39281 has 46 MA's), (Start: 66 @39293 has 3 MA's), (80, 39314), (102, 39374), (109, 39395), (111, 39398), (136, 39482), (165, 39605), (180, 39662), (190, 39686), (192, 39695),

Gene: DismalFunk_30 Start: 26028, Stop: 26414, Start Num: 89
Candidate Starts for DismalFunk_30:
(Start: 89 @26028 has 11 MA's), (Start: 91 @26031 has 5 MA's), (112, 26103), (114, 26109), (117, 26118), (118, 26124), (122, 26145), (126, 26154), (129, 26163), (133, 26172), (149, 26235), (154, 26256), (159, 26274), (160, 26277),

Gene: DismalStressor_30 Start: 26028, Stop: 26414, Start Num: 89
Candidate Starts for DismalStressor_30:
(Start: 89 @26028 has 11 MA's), (Start: 91 @26031 has 5 MA's), (112, 26103), (114, 26109), (117, 26118), (118, 26124), (122, 26145), (126, 26154), (129, 26163), (133, 26172), (149, 26235), (154, 26256), (159, 26274), (160, 26277),

Gene: Dole_32 Start: 27353, Stop: 27793, Start Num: 50
Candidate Starts for Dole_32:
(Start: 50 @27353 has 135 MA's), (Start: 66 @27383 has 3 MA's), (70, 27389), (73, 27395), (80, 27407), (99, 27455), (103, 27473), (114, 27500), (123, 27539), (129, 27554), (133, 27563), (147, 27617), (165, 27695), (195, 27785),

Gene: Dori_13 Start: 11588, Stop: 11983, Start Num: 52
Candidate Starts for Dori_13:
(Start: 52 @11588 has 55 MA's), (Start: 71 @11621 has 7 MA's), (105, 11699), (136, 11795), (149, 11846), (151, 11852), (152, 11858), (154, 11867), (163, 11909),

Gene: DoubleChamp_31 Start: 27991, Stop: 28398, Start Num: 66
Candidate Starts for DoubleChamp_31:
(1, 27433), (2, 27547), (Start: 41 @27946 has 16 MA's), (Start: 43 @27949 has 6 MA's), (Start: 66 @27991 has 3 MA's), (73, 28003), (80, 28015), (99, 28063), (102, 28075), (103, 28081), (111, 28099), (114, 28108), (129, 28162), (133, 28171), (137, 28186), (147, 28225), (149, 28234), (152, 28246), (162, 28291), (164, 28300), (165, 28303), (170, 28324), (174, 28336),

Gene: Doughnut_31 Start: 26109, Stop: 26495, Start Num: 89
Candidate Starts for Doughnut_31:
(Start: 89 @26109 has 11 MA's), (Start: 91 @26112 has 5 MA's), (114, 26190), (117, 26199), (118, 26205), (122, 26226), (126, 26235), (128, 26241), (129, 26244), (133, 26253), (149, 26316), (154, 26337), (159, 26355), (160, 26358),

Gene: DrHayes_32 Start: 27266, Stop: 27706, Start Num: 50
Candidate Starts for DrHayes_32:
(Start: 41 @27251 has 16 MA's), (Start: 50 @27266 has 135 MA's), (Start: 66 @27296 has 3 MA's), (70, 27302), (73, 27308), (80, 27320), (99, 27368), (103, 27386), (114, 27413), (129, 27467), (133, 27476), (147, 27530), (165, 27608), (174, 27641), (195, 27698), (197, 27701),

Gene: Durfee_32 Start: 27377, Stop: 27817, Start Num: 50
Candidate Starts for Durfee_32:

(31, 27314), (Start: 50 @27377 has 135 MA's), (Start: 66 @27407 has 3 MA's), (70, 27413), (73, 27419), (80, 27431), (99, 27479), (103, 27497), (114, 27524), (129, 27578), (133, 27587), (146, 27638), (147, 27641), (152, 27662), (165, 27719), (174, 27752), (195, 27809),

Gene: Dusty_50 Start: 32639, Stop: 33046, Start Num: 90
Candidate Starts for Dusty_50:
(Start: 90 @32639 has 16 MA's), (107, 32702), (109, 32705), (141, 32807), (165, 32918), (176, 32960), (201, 33035),

Gene: Edugator_31 Start: 27961, Stop: 28368, Start Num: 66
Candidate Starts for Edugator_31:
(Start: 41 @27916 has 16 MA's), (Start: 43 @27919 has 6 MA's), (Start: 66 @27961 has 3 MA's), (73, 27973), (80, 27985), (99, 28033), (102, 28045), (103, 28051), (111, 28069), (114, 28078), (133, 28141), (137, 28156), (147, 28195), (149, 28204), (152, 28216), (164, 28270), (165, 28273), (170, 28294),

Gene: Efra2_32 Start: 26582, Stop: 27031, Start Num: 50
Candidate Starts for Efra2_32:
(Start: 50 @26582 has 135 MA's), (Start: 66 @26612 has 3 MA's), (70, 26618), (73, 26624), (80, 26636), (99, 26684), (102, 26696), (114, 26729), (115, 26732), (129, 26783), (133, 26792), (152, 26867), (156, 26882), (165, 26924), (197, 27023),

Gene: Eggsie_32 Start: 37550, Stop: 38008, Start Num: 60
Candidate Starts for Eggsie_32:
(Start: 60 @37550 has 46 MA's), (Start: 66 @37562 has 3 MA's), (80, 37583), (102, 37643), (109, 37664), (111, 37667), (136, 37751), (165, 37874), (180, 37931), (190, 37955), (192, 37964),

Gene: Ein37_34 Start: 29596, Stop: 30006, Start Num: 57
Candidate Starts for Ein37_34:
(Start: 57 @29596 has 26 MA's), (102, 29698), (121, 29764), (125, 29776), (129, 29788), (136, 29809), (159, 29896), (182, 29989),

Gene: Ekdilam_29 Start: 27401, Stop: 27862, Start Num: 49
Candidate Starts for Ekdilam_29:
(Start: 49 @27401 has 12 MA's), (Start: 66 @27431 has 3 MA's), (68, 27434), (80, 27455), (103, 27521), (114, 27548), (123, 27587), (129, 27602), (147, 27665), (165, 27743), (168, 27755),

Gene: Ekhein_32 Start: 37342, Stop: 37863, Start Num: 38
Candidate Starts for Ekhein_32:
(Start: 38 @37342 has 21 MA's), (Start: 60 @37396 has 46 MA's), (Start: 66 @37408 has 3 MA's), (80, 37429), (111, 37513), (136, 37597), (149, 37648), (152, 37660), (165, 37720), (180, 37777), (192, 37810), (196, 37825),

Gene: Ellie_29 Start: 27400, Stop: 27864, Start Num: 49
Candidate Starts for Ellie_29:
(24, 27277), (Start: 49 @27400 has 12 MA's), (Start: 66 @27430 has 3 MA's), (68, 27433), (76, 27445), (85, 27460), (102, 27514), (103, 27520), (114, 27547), (129, 27601), (147, 27664), (165, 27742),

Gene: Emerson_32 Start: 27337, Stop: 27777, Start Num: 50
Candidate Starts for Emerson_32:
(17, 27100), (31, 27274), (Start: 50 @27337 has 135 MA's), (Start: 66 @27367 has 3 MA's), (70, 27373), (73, 27379), (80, 27391), (99, 27439), (103, 27457), (114, 27484), (129, 27538), (133, 27547), (147, 27601), (152, 27622), (165, 27679), (174, 27712), (195, 27769),

Gene: Engineer_53 Start: 33314, Stop: 33721, Start Num: 90
Candidate Starts for Engineer_53:
(Start: 90 @33314 has 16 MA's), (107, 33377), (109, 33380), (141, 33482), (165, 33593), (176, 33635), (201, 33710),

Gene: Enkosi_28 Start: 26747, Stop: 27205, Start Num: 50
Candidate Starts for Enkosi_28:
(21, 26528), (Start: 50 @26747 has 135 MA's), (Start: 66 @26777 has 3 MA's), (70, 26783), (80, 26801), (102, 26861), (111, 26885), (114, 26894), (115, 26897), (118, 26909), (129, 26948), (133, 26957), (134, 26960), (147, 27011), (152, 27032), (156, 27047), (165, 27089), (168, 27101),

Gene: Eponine_35 Start: 29224, Stop: 29622, Start Num: 67
Candidate Starts for Eponine_35:
(28, 29104), (Start: 67 @29224 has 23 MA's), (80, 29245), (87, 29254), (115, 29341), (119, 29356), (137, 29416), (139, 29422), (143, 29440), (149, 29464), (154, 29485), (158, 29497), (160, 29506), (162, 29521), (167, 29542), (185, 29602),

Gene: Evanesce_33 Start: 29596, Stop: 30006, Start Num: 57
Candidate Starts for Evanesce_33:
(Start: 57 @29596 has 26 MA's), (102, 29698), (121, 29764), (125, 29776), (129, 29788), (136, 29809), (159, 29896), (182, 29989),

Gene: Exiguo_32 Start: 37408, Stop: 37875, Start Num: 60
Candidate Starts for Exiguo_32:
(Start: 38 @37354 has 21 MA's), (Start: 60 @37408 has 46 MA's), (Start: 66 @37420 has 3 MA's), (80, 37441), (111, 37525), (136, 37609), (149, 37660), (152, 37672), (165, 37732), (180, 37789), (192, 37822), (196, 37837),

Gene: Faiyaz_33 Start: 30335, Stop: 30691, Start Num: 91
Candidate Starts for Faiyaz_33:
(30, 30185), (Start: 91 @30335 has 5 MA's), (99, 30368), (115, 30416), (118, 30428), (123, 30452), (129, 30467), (136, 30488), (144, 30518), (149, 30539), (150, 30542), (165, 30608), (167, 30617), (170, 30629),

Gene: Farewell_28 Start: 26686, Stop: 27078, Start Num: 86
Candidate Starts for Farewell_28:
(Start: 86 @26686 has 2 MA's), (111, 26752), (112, 26755), (130, 26818), (149, 26887), (158, 26920), (160, 26929), (174, 26989), (177, 27004), (189, 27034), (200, 27070),

Gene: Fefferhead_31 Start: 27600, Stop: 28064, Start Num: 49
Candidate Starts for Fefferhead_31:
(24, 27477), (Start: 49 @27600 has 12 MA's), (Start: 66 @27630 has 3 MA's), (68, 27633), (76, 27645), (85, 27660), (102, 27714), (103, 27720), (114, 27747), (129, 27801), (147, 27864), (165, 27942),

Gene: FelixAlejandro_37 Start: 39623, Stop: 40090, Start Num: 60
Candidate Starts for FelixAlejandro_37:
(Start: 38 @39569 has 21 MA's), (Start: 60 @39623 has 46 MA's), (Start: 66 @39635 has 3 MA's), (80, 39656), (102, 39716), (111, 39740), (136, 39824), (148, 39872), (152, 39887), (165, 39947), (180, 40004), (192, 40037), (196, 40052),

Gene: FelixTres_16 Start: 14366, Stop: 14767, Start Num: 59
Candidate Starts for FelixTres_16:

(Start: 59 @14366 has 8 MA's), (69, 14387), (Start: 86 @14414 has 2 MA's), (114, 14492), (145, 14603), (152, 14630), (154, 14639), (156, 14645), (167, 14696), (172, 14714), (178, 14738), (186, 14756), (187, 14759),

Gene: Feyre_31 Start: 27833, Stop: 28285, Start Num: 41
Candidate Starts for Feyre_31:
(Start: 41 @27833 has 16 MA's), (Start: 66 @27878 has 3 MA's), (73, 27890), (80, 27902), (99, 27950), (102, 27962), (103, 27968), (114, 27995), (129, 28049), (133, 28058), (137, 28073), (147, 28112), (152, 28133), (164, 28187), (165, 28190), (174, 28223),

Gene: Findley_30 Start: 26020, Stop: 26406, Start Num: 89
Candidate Starts for Findley_30:
(Start: 89 @26020 has 11 MA's), (Start: 91 @26023 has 5 MA's), (95, 26032), (112, 26095), (114, 26101), (117, 26110), (118, 26116), (122, 26137), (126, 26146), (129, 26155), (133, 26164), (149, 26227), (154, 26248), (159, 26266), (160, 26269),

Gene: Fionnbharth_33 Start: 28459, Stop: 28857, Start Num: 67
Candidate Starts for Fionnbharth_33:
(Start: 67 @28459 has 23 MA's), (80, 28480), (87, 28489), (115, 28576), (119, 28591), (139, 28657), (143, 28675), (149, 28699), (154, 28720), (158, 28732), (160, 28741), (162, 28756), (167, 28777),

Gene: Flakey_32 Start: 38218, Stop: 38739, Start Num: 38
Candidate Starts for Flakey_32:
(Start: 38 @38218 has 21 MA's), (Start: 60 @38272 has 46 MA's), (Start: 66 @38284 has 3 MA's), (80, 38305), (111, 38389), (136, 38473), (149, 38524), (152, 38536), (165, 38596), (180, 38653), (192, 38686), (196, 38701),

Gene: Forge_33 Start: 29596, Stop: 30006, Start Num: 57
Candidate Starts for Forge_33:
(Start: 57 @29596 has 26 MA's), (102, 29698), (121, 29764), (125, 29776), (129, 29788), (136, 29809), (159, 29896), (182, 29989),

Gene: Fowlmouth_30 Start: 29190, Stop: 29609, Start Num: 74
Candidate Starts for Fowlmouth_30:
(44, 29136), (Start: 74 @29190 has 10 MA's), (81, 29205), (96, 29229), (101, 29262), (182, 29559), (187, 29571), (193, 29589),

Gene: Fresco_14 Start: 12949, Stop: 13329, Start Num: 79
Candidate Starts for Fresco_14:
(Start: 79 @12949 has 18 MA's), (109, 13024), (118, 13051), (139, 13120), (156, 13189), (160, 13204), (175, 13267), (178, 13282),

Gene: GMA2_39 Start: 41812, Stop: 42174, Start Num: 90
Candidate Starts for GMA2_39:
(Start: 90 @41812 has 16 MA's), (93, 41818), (102, 41857), (107, 41875), (123, 41929), (152, 42034), (166, 42097),

Gene: GMA3_27 Start: 36415, Stop: 36849, Start Num: 51
Candidate Starts for GMA3_27:
(51, 36415), (101, 36520), (102, 36523), (133, 36619), (135, 36628), (144, 36661), (156, 36709), (165, 36751),

Gene: GMA7_26 Start: 32429, Stop: 32848, Start Num: 60

Candidate Starts for GMA7_26:
(Start: 60 @32429 has 46 MA's), (101, 32501), (107, 32522), (113, 32534), (115, 32540), (144, 32642), (152, 32675), (153, 32681), (162, 32723), (176, 32777), (180, 32792), (196, 32840),

Gene: GTE7_26 Start: 32460, Stop: 32879, Start Num: 60
Candidate Starts for GTE7_26:
(Start: 60 @32460 has 46 MA's), (101, 32532), (107, 32553), (113, 32565), (115, 32571), (144, 32673), (152, 32706), (153, 32712), (162, 32754), (176, 32808), (180, 32823), (196, 32871),

Gene: Gadjet_18 Start: 14570, Stop: 15004, Start Num: 52
Candidate Starts for Gadjet_18:
(27, 14465), (Start: 52 @14570 has 55 MA's), (84, 14624), (109, 14690), (163, 14891), (164, 14894),

Gene: GalacticEye_33 Start: 39653, Stop: 40090, Start Num: 60
Candidate Starts for GalacticEye_33:
(Start: 38 @39599 has 21 MA's), (Start: 60 @39653 has 46 MA's), (Start: 66 @39665 has 3 MA's), (80, 39686), (102, 39746), (109, 39767), (150, 39908), (165, 39977),

Gene: Gancho_33 Start: 29319, Stop: 29729, Start Num: 57
Candidate Starts for Gancho_33:
(Start: 57 @29319 has 26 MA's), (102, 29421), (121, 29487), (125, 29499), (129, 29511), (136, 29532), (159, 29619), (182, 29712),

Gene: Ganymede_33 Start: 27357, Stop: 27806, Start Num: 50
Candidate Starts for Ganymede_33:
(17, 27120), (31, 27294), (Start: 50 @27357 has 135 MA's), (Start: 66 @27387 has 3 MA's), (70, 27393), (73, 27399), (80, 27411), (99, 27459), (103, 27477), (114, 27504), (129, 27558), (133, 27567), (147, 27621), (152, 27642), (165, 27699),

Gene: Geeche_50 Start: 32730, Stop: 33137, Start Num: 90
Candidate Starts for Geeche_50:
(Start: 90 @32730 has 16 MA's), (107, 32793), (109, 32796), (141, 32898), (165, 33009), (176, 33051), (201, 33126),

Gene: Gengar_31 Start: 27943, Stop: 28395, Start Num: 41
Candidate Starts for Gengar_31:
(Start: 41 @27943 has 16 MA's), (Start: 66 @27988 has 3 MA's), (73, 28000), (80, 28012), (99, 28060), (102, 28072), (103, 28078), (114, 28105), (129, 28159), (133, 28168), (137, 28183), (147, 28222), (152, 28243), (164, 28297), (165, 28300), (174, 28333),

Gene: Geraldini_32 Start: 27354, Stop: 27794, Start Num: 50
Candidate Starts for Geraldini_32:
(17, 27117), (31, 27291), (Start: 50 @27354 has 135 MA's), (Start: 66 @27384 has 3 MA's), (70, 27390), (73, 27396), (80, 27408), (99, 27456), (103, 27474), (114, 27501), (129, 27555), (133, 27564), (147, 27618), (152, 27639), (165, 27696), (174, 27729), (195, 27786),

Gene: Gervas_17 Start: 14549, Stop: 14983, Start Num: 52
Candidate Starts for Gervas_17:
(27, 14444), (Start: 52 @14549 has 55 MA's), (84, 14603), (109, 14669), (163, 14870), (164, 14873),

Gene: Gibbles_29 Start: 35291, Stop: 35674, Start Num: 83
Candidate Starts for Gibbles_29:
(Start: 83 @35291 has 5 MA's), (115, 35387), (150, 35513), (154, 35531), (160, 35552),

Gene: Giles_33 Start: 29596, Stop: 30006, Start Num: 57
Candidate Starts for Giles_33:
(Start: 57 @29596 has 26 MA's), (102, 29698), (121, 29764), (125, 29776), (129, 29788), (136, 29809), (159, 29896), (182, 29989),

Gene: GlenHope_18 Start: 14556, Stop: 14990, Start Num: 52
Candidate Starts for GlenHope_18:
(27, 14451), (Start: 52 @14556 has 55 MA's), (84, 14610), (109, 14676), (163, 14877), (164, 14880),

Gene: Glubnar_17 Start: 14570, Stop: 15004, Start Num: 52
Candidate Starts for Glubnar_17:
(27, 14465), (Start: 52 @14570 has 55 MA's), (84, 14624), (109, 14690), (163, 14891), (164, 14894),

Gene: Gmala1_27 Start: 34646, Stop: 35092, Start Num: 70
Candidate Starts for Gmala1_27:
(Start: 50 @34610 has 135 MA's), (Start: 66 @34640 has 3 MA's), (70, 34646), (101, 34721), (134, 34823), (136, 34832), (152, 34895),

Gene: GordDuk1_27 Start: 34584, Stop: 35030, Start Num: 70
Candidate Starts for GordDuk1_27:
(Start: 66 @34578 has 3 MA's), (70, 34584), (101, 34659), (134, 34761), (136, 34770), (152, 34833),

Gene: GordTnk2_27 Start: 34553, Stop: 34999, Start Num: 70
Candidate Starts for GordTnk2_27:
(Start: 50 @34517 has 135 MA's), (Start: 66 @34547 has 3 MA's), (70, 34553), (101, 34628), (134, 34730), (136, 34739), (152, 34802),

Gene: Gorko_32 Start: 37346, Stop: 37867, Start Num: 38
Candidate Starts for Gorko_32:
(Start: 38 @37346 has 21 MA's), (Start: 60 @37400 has 46 MA's), (Start: 66 @37412 has 3 MA's), (80, 37433), (111, 37517), (136, 37601), (149, 37652), (152, 37664), (165, 37724), (180, 37781), (192, 37814), (196, 37829),

Gene: GourdThymes_32 Start: 38220, Stop: 38741, Start Num: 38
Candidate Starts for GourdThymes_32:
(Start: 38 @38220 has 21 MA's), (Start: 60 @38274 has 46 MA's), (Start: 66 @38286 has 3 MA's), (80, 38307), (111, 38391), (136, 38475), (149, 38526), (152, 38538), (165, 38598), (180, 38655), (192, 38688), (196, 38703),

Gene: Gravaillia_33 Start: 29325, Stop: 29735, Start Num: 57
Candidate Starts for Gravaillia_33:
(Start: 57 @29325 has 26 MA's), (102, 29427), (121, 29493), (125, 29505), (129, 29517), (136, 29538), (159, 29625), (182, 29718),

Gene: Guanica15_32 Start: 26599, Stop: 27048, Start Num: 50
Candidate Starts for Guanica15_32:
(Start: 50 @26599 has 135 MA's), (Start: 66 @26629 has 3 MA's), (70, 26635), (73, 26641), (80, 26653), (99, 26701), (102, 26713), (114, 26746), (115, 26749), (129, 26800), (133, 26809), (147, 26863), (152, 26884), (156, 26899), (165, 26941), (197, 27040),

Gene: Guillaume_33 Start: 39703, Stop: 40140, Start Num: 60
Candidate Starts for Guillaume_33:

(Start: 38 @39649 has 21 MA's), (Start: 60 @39703 has 46 MA's), (Start: 66 @39715 has 3 MA's), (80, 39736), (102, 39796), (109, 39817), (150, 39958), (165, 40027),

Gene: Guillsminger_31 Start: 27915, Stop: 28367, Start Num: 41
Candidate Starts for Guillsminger_31:
(Start: 41 @27915 has 16 MA's), (Start: 66 @27960 has 3 MA's), (73, 27972), (80, 27984), (99, 28032), (102, 28044), (103, 28050), (114, 28077), (129, 28131), (133, 28140), (137, 28155), (147, 28194), (152, 28215), (164, 28269), (165, 28272), (174, 28305),

Gene: HH92_33 Start: 29596, Stop: 30006, Start Num: 57
Candidate Starts for HH92_33:
(Start: 57 @29596 has 26 MA's), (102, 29698), (121, 29764), (125, 29776), (129, 29788), (136, 29809), (159, 29896), (182, 29989),

Gene: Hadrien_34 Start: 29596, Stop: 30006, Start Num: 57
Candidate Starts for Hadrien_34:
(Start: 57 @29596 has 26 MA's), (102, 29698), (121, 29764), (125, 29776), (129, 29788), (136, 29809), (159, 29896), (182, 29989),

Gene: Hail_33 Start: 29596, Stop: 30006, Start Num: 57
Candidate Starts for Hail_33:
(Start: 57 @29596 has 26 MA's), (102, 29698), (121, 29764), (125, 29776), (129, 29788), (136, 29809), (159, 29896), (182, 29989),

Gene: Hail2Pitt_33 Start: 40180, Stop: 40617, Start Num: 60
Candidate Starts for Hail2Pitt_33:
(Start: 38 @40126 has 21 MA's), (Start: 60 @40180 has 46 MA's), (Start: 66 @40192 has 3 MA's), (80, 40213), (102, 40273), (109, 40294), (150, 40435), (165, 40504),

Gene: Halfpint_16 Start: 14391, Stop: 14825, Start Num: 52
Candidate Starts for Halfpint_16:
(27, 14286), (Start: 52 @14391 has 55 MA's), (84, 14445), (109, 14511), (163, 14712), (164, 14715),

Gene: Hammy_31 Start: 27634, Stop: 28098, Start Num: 49
Candidate Starts for Hammy_31:
(Start: 41 @27619 has 16 MA's), (Start: 49 @27634 has 12 MA's), (Start: 66 @27664 has 3 MA's), (68, 27667), (80, 27688), (103, 27754), (114, 27781), (129, 27835), (147, 27898), (165, 27976), (168, 27988),

Gene: Harambe_33 Start: 39970, Stop: 40407, Start Num: 60
Candidate Starts for Harambe_33:
(Start: 38 @39916 has 21 MA's), (Start: 60 @39970 has 46 MA's), (Start: 66 @39982 has 3 MA's), (80, 40003), (102, 40063), (109, 40084), (150, 40225), (165, 40294),

Gene: HayZem_35 Start: 38212, Stop: 38631, Start Num: 60
Candidate Starts for HayZem_35:
(Start: 60 @38212 has 46 MA's), (101, 38284), (107, 38305), (113, 38317), (115, 38323), (144, 38425), (152, 38458), (153, 38464), (162, 38506), (176, 38560), (180, 38575), (196, 38623),

Gene: Heathcliff_17 Start: 14528, Stop: 14962, Start Num: 52
Candidate Starts for Heathcliff_17:
(27, 14423), (Start: 52 @14528 has 55 MA's), (84, 14582), (109, 14648), (163, 14849), (164, 14852),

Gene: HedwigODU_32 Start: 27346, Stop: 27786, Start Num: 50
Candidate Starts for HedwigODU_32:
(17, 27109), (31, 27283), (Start: 50 @27346 has 135 MA's), (Start: 66 @27376 has 3 MA's), (70, 27382), (73, 27388), (80, 27400), (99, 27448), (103, 27466), (114, 27493), (129, 27547), (146, 27607), (147, 27610), (152, 27631), (165, 27688), (174, 27721), (195, 27778),

Gene: Heftyboy_31 Start: 28061, Stop: 28513, Start Num: 41
Candidate Starts for Heftyboy_31:
(Start: 41 @28061 has 16 MA's), (Start: 66 @28106 has 3 MA's), (73, 28118), (80, 28130), (99, 28178), (102, 28190), (103, 28196), (114, 28223), (115, 28226), (129, 28277), (133, 28286), (137, 28301), (147, 28340), (152, 28361), (164, 28415), (165, 28418), (174, 28451),

Gene: Hello_33 Start: 39932, Stop: 40369, Start Num: 60
Candidate Starts for Hello_33:
(Start: 38 @39878 has 21 MA's), (Start: 60 @39932 has 46 MA's), (Start: 66 @39944 has 3 MA's), (80, 39965), (102, 40025), (109, 40046), (150, 40187), (165, 40256),

Gene: Hilltopfarm_33 Start: 30365, Stop: 30721, Start Num: 91
Candidate Starts for Hilltopfarm_33:
(30, 30215), (Start: 91 @30365 has 5 MA's), (99, 30398), (115, 30446), (118, 30458), (123, 30482), (129, 30497), (136, 30518), (144, 30548), (149, 30569), (150, 30572), (165, 30638), (167, 30647), (170, 30659),

Gene: Hollow_32 Start: 39444, Stop: 39878, Start Num: 64
Candidate Starts for Hollow_32:
(Start: 64 @39444 has 11 MA's), (80, 39465), (101, 39516), (146, 39666), (154, 39699), (157, 39708), (165, 39747), (166, 39753), (168, 39759), (169, 39765), (170, 39768), (190, 39828),

Gene: Homura_32 Start: 27377, Stop: 27817, Start Num: 50
Candidate Starts for Homura_32:
(31, 27314), (Start: 50 @27377 has 135 MA's), (Start: 66 @27407 has 3 MA's), (70, 27413), (73, 27419), (80, 27431), (99, 27479), (103, 27497), (114, 27524), (129, 27578), (133, 27587), (146, 27638), (147, 27641), (152, 27662), (165, 27719), (174, 27752), (195, 27809),

Gene: Hotorobo_32 Start: 38225, Stop: 38746, Start Num: 38
Candidate Starts for Hotorobo_32:
(Start: 38 @38225 has 21 MA's), (Start: 60 @38279 has 46 MA's), (Start: 66 @38291 has 3 MA's), (80, 38312), (111, 38396), (136, 38480), (149, 38531), (152, 38543), (165, 38603), (180, 38660), (192, 38693), (196, 38708),

Gene: Hurricane_33 Start: 28195, Stop: 28641, Start Num: 50
Candidate Starts for Hurricane_33:
(39, 28162), (Start: 50 @28195 has 135 MA's), (Start: 66 @28225 has 3 MA's), (103, 28315), (114, 28342), (115, 28345), (123, 28381), (129, 28396), (147, 28459), (154, 28489), (165, 28537),

Gene: Hyperbowlee_32 Start: 27377, Stop: 27817, Start Num: 50
Candidate Starts for Hyperbowlee_32:
(31, 27314), (Start: 50 @27377 has 135 MA's), (Start: 66 @27407 has 3 MA's), (70, 27413), (73, 27419), (80, 27431), (99, 27479), (103, 27497), (114, 27524), (129, 27578), (133, 27587), (146, 27638), (147, 27641), (152, 27662), (165, 27719), (174, 27752), (195, 27809),

Gene: IdentityCrisis_27 Start: 23066, Stop: 23467, Start Num: 79
Candidate Starts for IdentityCrisis_27:

(Start: 79 @23066 has 18 MA's), (111, 23141), (112, 23144), (130, 23207), (149, 23276), (158, 23309), (160, 23318), (174, 23378), (177, 23393), (189, 23423), (200, 23459),

Gene: Illumine_32 Start: 27353, Stop: 27793, Start Num: 50
Candidate Starts for Illumine_32:
(Start: 50 @27353 has 135 MA's), (Start: 66 @27383 has 3 MA's), (70, 27389), (73, 27395), (80, 27407), (99, 27455), (103, 27473), (114, 27500), (123, 27539), (129, 27554), (133, 27563), (147, 27617), (165, 27695), (195, 27785),

Gene: Inky_32 Start: 27377, Stop: 27817, Start Num: 50
Candidate Starts for Inky_32:
(31, 27314), (Start: 50 @27377 has 135 MA's), (Start: 66 @27407 has 3 MA's), (70, 27413), (73, 27419), (80, 27431), (99, 27479), (103, 27497), (114, 27524), (129, 27578), (133, 27587), (147, 27641), (152, 27662), (165, 27719), (174, 27752), (195, 27809),

Gene: InvictusManeo_31 Start: 27989, Stop: 28441, Start Num: 41
Candidate Starts for InvictusManeo_31:
(1, 27476), (2, 27590), (Start: 41 @27989 has 16 MA's), (Start: 43 @27992 has 6 MA's), (Start: 66 @28034 has 3 MA's), (73, 28046), (80, 28058), (99, 28106), (102, 28118), (103, 28124), (111, 28142), (114, 28151), (129, 28205), (133, 28214), (137, 28229), (147, 28268), (149, 28277), (152, 28289), (162, 28334), (164, 28343), (165, 28346), (170, 28367), (174, 28379),

Gene: JAWS_32 Start: 27331, Stop: 27771, Start Num: 50
Candidate Starts for JAWS_32:
(16, 27082), (31, 27268), (Start: 50 @27331 has 135 MA's), (Start: 66 @27361 has 3 MA's), (70, 27367), (73, 27373), (80, 27385), (99, 27433), (103, 27451), (114, 27478), (129, 27532), (133, 27541), (146, 27592), (147, 27595), (165, 27673), (174, 27706), (195, 27763),

Gene: JF1_33 Start: 28458, Stop: 28856, Start Num: 67
Candidate Starts for JF1_33:
(Start: 67 @28458 has 23 MA's), (80, 28479), (87, 28488), (115, 28575), (119, 28590), (123, 28611), (139, 28656), (143, 28674), (149, 28698), (154, 28719), (158, 28731), (160, 28740), (162, 28755), (167, 28776),

Gene: Jackstina_16 Start: 14492, Stop: 14926, Start Num: 52
Candidate Starts for Jackstina_16:
(27, 14387), (Start: 52 @14492 has 55 MA's), (84, 14546), (109, 14612), (163, 14813), (164, 14816),

Gene: Jams_33 Start: 39141, Stop: 39578, Start Num: 60
Candidate Starts for Jams_33:
(Start: 38 @39087 has 21 MA's), (Start: 60 @39141 has 46 MA's), (Start: 66 @39153 has 3 MA's), (80, 39174), (102, 39234), (109, 39255), (150, 39396), (165, 39465),

Gene: Jarvi_32 Start: 27377, Stop: 27817, Start Num: 50
Candidate Starts for Jarvi_32:
(31, 27314), (Start: 50 @27377 has 135 MA's), (Start: 66 @27407 has 3 MA's), (70, 27413), (73, 27419), (80, 27431), (99, 27479), (103, 27497), (114, 27524), (129, 27578), (133, 27587), (147, 27641), (152, 27662), (165, 27719), (174, 27752), (195, 27809),

Gene: Jayhawk_32 Start: 27344, Stop: 27784, Start Num: 50
Candidate Starts for Jayhawk_32:
(17, 27107), (31, 27281), (Start: 50 @27344 has 135 MA's), (Start: 66 @27374 has 3 MA's), (70, 27380), (73, 27386), (80, 27398), (99, 27446), (103, 27464), (114, 27491), (129, 27545), (146, 27605),

(147, 27608), (152, 27629), (165, 27686), (174, 27719), (195, 27776),

Gene: Jeckyll_32 Start: 27377, Stop: 27817, Start Num: 50
Candidate Starts for Jeckyll_32:
(31, 27314), (Start: 50 @27377 has 135 MA's), (Start: 66 @27407 has 3 MA's), (70, 27413), (73, 27419), (80, 27431), (99, 27479), (103, 27497), (114, 27524), (129, 27578), (133, 27587), (147, 27641), (152, 27662), (165, 27719), (174, 27752), (195, 27809),

Gene: JellyBelly_14 Start: 12853, Stop: 13239, Start Num: 74
Candidate Starts for JellyBelly_14:
(Start: 74 @12853 has 10 MA's), (Start: 79 @12865 has 18 MA's), (105, 12931), (118, 12967), (139, 13036), (156, 13105), (160, 13120), (183, 13210),

Gene: Jellybones_36 Start: 39484, Stop: 39951, Start Num: 60
Candidate Starts for Jellybones_36:
(Start: 38 @39430 has 21 MA's), (Start: 60 @39484 has 46 MA's), (Start: 66 @39496 has 3 MA's), (80, 39517), (102, 39577), (111, 39601), (136, 39685), (149, 39736), (152, 39748), (165, 39808), (180, 39865), (192, 39898), (196, 39913),

Gene: John316_36 Start: 39437, Stop: 39904, Start Num: 60
Candidate Starts for John316_36:
(Start: 38 @39383 has 21 MA's), (Start: 60 @39437 has 46 MA's), (Start: 66 @39449 has 3 MA's), (80, 39470), (111, 39554), (136, 39638), (149, 39689), (152, 39701), (165, 39761), (180, 39818), (192, 39851), (196, 39866),

Gene: JohnLord_13 Start: 11291, Stop: 11686, Start Num: 52
Candidate Starts for JohnLord_13:
(Start: 52 @11291 has 55 MA's), (Start: 71 @11324 has 7 MA's), (105, 11402), (136, 11498), (149, 11549), (151, 11555), (152, 11561), (154, 11570), (163, 11612),

Gene: JonJames_51 Start: 37099, Stop: 37509, Start Num: 57
Candidate Starts for JonJames_51:
(Start: 57 @37099 has 26 MA's), (106, 37210), (118, 37243), (123, 37267), (167, 37432),

Gene: Jormungandr_33 Start: 39685, Stop: 40122, Start Num: 60
Candidate Starts for Jormungandr_33:
(Start: 38 @39631 has 21 MA's), (Start: 60 @39685 has 46 MA's), (Start: 66 @39697 has 3 MA's), (80, 39718), (102, 39778), (109, 39799), (150, 39940), (165, 40009),

Gene: Joy99_32 Start: 27306, Stop: 27746, Start Num: 50
Candidate Starts for Joy99_32:
(31, 27243), (Start: 50 @27306 has 135 MA's), (Start: 66 @27336 has 3 MA's), (70, 27342), (73, 27348), (80, 27360), (99, 27408), (103, 27426), (114, 27453), (129, 27507), (133, 27516), (147, 27570), (152, 27591), (165, 27648), (174, 27681), (195, 27738),

Gene: Juliette_35 Start: 28617, Stop: 29015, Start Num: 67
Candidate Starts for Juliette_35:
(Start: 67 @28617 has 23 MA's), (80, 28638), (87, 28647), (115, 28734), (119, 28749), (137, 28809), (139, 28815), (143, 28833), (149, 28857), (154, 28878), (158, 28890), (160, 28899), (162, 28914), (185, 28995),

Gene: Jumbo_34 Start: 40874, Stop: 41350, Start Num: 46
Candidate Starts for Jumbo_34:

(Start: 46 @40874 has 3 MA's), (55, 40892), (101, 40991), (103, 41000), (105, 41006), (124, 41069), (133, 41090), (134, 41093), (149, 41153), (150, 41156), (154, 41174), (177, 41270), (180, 41279),

Gene: Kamiyu_17 Start: 14537, Stop: 14971, Start Num: 52
Candidate Starts for Kamiyu_17:
(27, 14432), (Start: 52 @14537 has 55 MA's), (84, 14591), (109, 14657), (163, 14858), (164, 14861),

Gene: Kampe_30 Start: 35152, Stop: 35535, Start Num: 83
Candidate Starts for Kampe_30:
(Start: 83 @35152 has 5 MA's), (115, 35248), (150, 35374), (154, 35392), (160, 35413),

Gene: Kaseim_33 Start: 39126, Stop: 39563, Start Num: 60
Candidate Starts for Kaseim_33:
(Start: 38 @39072 has 21 MA's), (Start: 60 @39126 has 46 MA's), (Start: 66 @39138 has 3 MA's), (80, 39159), (102, 39219), (109, 39240), (150, 39381), (165, 39450),

Gene: Katyusha_31 Start: 39098, Stop: 39532, Start Num: 64
Candidate Starts for Katyusha_31:
(Start: 64 @39098 has 11 MA's), (80, 39119), (94, 39137), (101, 39170), (146, 39320), (150, 39335), (163, 39395), (165, 39401), (166, 39407), (190, 39482),

Gene: Kelzog_32 Start: 38286, Stop: 38753, Start Num: 60
Candidate Starts for Kelzog_32:
(Start: 38 @38232 has 21 MA's), (Start: 60 @38286 has 46 MA's), (Start: 66 @38298 has 3 MA's), (80, 38319), (111, 38403), (136, 38487), (149, 38538), (152, 38550), (165, 38610), (180, 38667), (192, 38700), (196, 38715),

Gene: Keshu_33 Start: 28183, Stop: 28629, Start Num: 50
Candidate Starts for Keshu_33:
(Start: 50 @28183 has 135 MA's), (Start: 66 @28213 has 3 MA's), (82, 28240), (103, 28303), (114, 28330), (115, 28333), (123, 28369), (129, 28384), (133, 28393), (147, 28447), (154, 28477), (165, 28525),

Gene: Kheparia_34 Start: 27286, Stop: 27726, Start Num: 50
Candidate Starts for Kheparia_34:
(17, 27049), (31, 27223), (Start: 50 @27286 has 135 MA's), (Start: 66 @27316 has 3 MA's), (70, 27322), (73, 27328), (80, 27340), (99, 27388), (103, 27406), (114, 27433), (129, 27487), (133, 27496), (147, 27550), (165, 27628),

Gene: KiSi_31 Start: 26374, Stop: 26829, Start Num: 50
Candidate Starts for KiSi_31:
(Start: 50 @26374 has 135 MA's), (Start: 66 @26404 has 3 MA's), (68, 26407), (82, 26431), (103, 26494), (114, 26521), (115, 26524), (129, 26575), (147, 26638), (165, 26716), (168, 26728), (169, 26734),

Gene: Kinbote_34 Start: 29596, Stop: 30006, Start Num: 57
Candidate Starts for Kinbote_34:
(Start: 57 @29596 has 26 MA's), (102, 29698), (121, 29764), (125, 29776), (129, 29788), (136, 29809), (159, 29896), (182, 29989),

Gene: Konstantine_40 Start: 33596, Stop: 34045, Start Num: 64
Candidate Starts for Konstantine_40:

(Start: 58 @33584 has 10 MA's), (Start: 64 @33596 has 11 MA's), (78, 33620), (93, 33647), (106, 33704), (107, 33707), (111, 33713), (113, 33719), (116, 33728), (118, 33737), (136, 33800), (137, 33803), (146, 33839), (155, 33875), (160, 33893), (171, 33944), (181, 33980), (196, 34025),

Gene: Kratio_30 Start: 27620, Stop: 28072, Start Num: 41
Candidate Starts for Kratio_30:
(1, 27107), (2, 27221), (Start: 41 @27620 has 16 MA's), (Start: 43 @27623 has 6 MA's), (Start: 66 @27665 has 3 MA's), (73, 27677), (80, 27689), (99, 27737), (102, 27749), (103, 27755), (111, 27773), (114, 27782), (129, 27836), (133, 27845), (137, 27860), (147, 27899), (149, 27908), (152, 27920), (164, 27974), (165, 27977), (170, 27998), (174, 28010),

Gene: Kraw_33 Start: 28383, Stop: 28781, Start Num: 67
Candidate Starts for Kraw_33:
(Start: 67 @28383 has 23 MA's), (80, 28404), (87, 28413), (115, 28500), (119, 28515), (139, 28581), (143, 28599), (149, 28623), (154, 28644), (158, 28656), (160, 28665), (162, 28680), (167, 28701), (169, 28710),

Gene: Kronus_16 Start: 15149, Stop: 15583, Start Num: 52
Candidate Starts for Kronus_16:
(27, 15044), (Start: 52 @15149 has 55 MA's), (84, 15203), (109, 15269), (163, 15470), (164, 15473),

Gene: Krueger_32 Start: 26494, Stop: 26958, Start Num: 50
Candidate Starts for Krueger_32:
(Start: 50 @26494 has 135 MA's), (62, 26515), (Start: 66 @26524 has 3 MA's), (68, 26527), (102, 26608), (103, 26614), (114, 26641), (129, 26695), (147, 26758), (152, 26779), (165, 26836), (168, 26848),

Gene: Kvothe_31 Start: 38997, Stop: 39431, Start Num: 64
Candidate Starts for Kvothe_31:
(Start: 64 @38997 has 11 MA's), (80, 39018), (94, 39036), (101, 39069), (146, 39219), (150, 39234), (154, 39252), (158, 39264), (165, 39300), (166, 39306), (190, 39381),

Gene: Lahirium_33 Start: 40207, Stop: 40644, Start Num: 60
Candidate Starts for Lahirium_33:
(Start: 38 @40153 has 21 MA's), (Start: 60 @40207 has 46 MA's), (Start: 66 @40219 has 3 MA's), (80, 40240), (102, 40300), (109, 40321), (150, 40462), (165, 40531),

Gene: Larva_32 Start: 27784, Stop: 28236, Start Num: 41
Candidate Starts for Larva_32:
(Start: 41 @27784 has 16 MA's), (Start: 43 @27787 has 6 MA's), (Start: 66 @27829 has 3 MA's), (73, 27841), (80, 27853), (99, 27901), (102, 27913), (103, 27919), (111, 27937), (114, 27946), (133, 28009), (137, 28024), (147, 28063), (149, 28072), (152, 28084), (164, 28138), (165, 28141), (170, 28162), (174, 28174),

Gene: LastHope_32 Start: 26463, Stop: 26915, Start Num: 50
Candidate Starts for LastHope_32:
(13, 26205), (24, 26340), (31, 26400), (Start: 50 @26463 has 135 MA's), (Start: 66 @26493 has 3 MA's), (70, 26499), (73, 26505), (80, 26517), (99, 26565), (102, 26577), (114, 26610), (115, 26613), (129, 26664), (133, 26673), (147, 26727), (149, 26736), (152, 26748), (165, 26805),

Gene: LaterM_32 Start: 27270, Stop: 27710, Start Num: 50
Candidate Starts for LaterM_32:

(17, 27033), (Start: 50 @27270 has 135 MA's), (Start: 66 @27300 has 3 MA's), (70, 27306), (73, 27312), (80, 27324), (99, 27372), (103, 27390), (114, 27417), (123, 27456), (129, 27471), (133, 27480), (147, 27534), (165, 27612), (195, 27702),

Gene: Lavahound_30 Start: 27292, Stop: 27756, Start Num: 49
Candidate Starts for Lavahound_30:
(24, 27169), (Start: 49 @27292 has 12 MA's), (Start: 66 @27322 has 3 MA's), (68, 27325), (76, 27337), (85, 27352), (100, 27400), (102, 27406), (103, 27412), (114, 27439), (129, 27493), (147, 27556), (165, 27634),

Gene: LeMond_31 Start: 26445, Stop: 26900, Start Num: 50
Candidate Starts for LeMond_31:
(Start: 50 @26445 has 135 MA's), (Start: 66 @26475 has 3 MA's), (68, 26478), (82, 26502), (103, 26565), (114, 26592), (115, 26595), (129, 26646), (147, 26709), (165, 26787), (169, 26805),

Gene: Lea83_33 Start: 28253, Stop: 28699, Start Num: 50
Candidate Starts for Lea83_33:
(39, 28220), (Start: 50 @28253 has 135 MA's), (Start: 66 @28283 has 3 MA's), (103, 28373), (114, 28400), (115, 28403), (123, 28439), (129, 28454), (147, 28517), (154, 28547), (165, 28595),

Gene: Lebo14_33 Start: 28472, Stop: 28870, Start Num: 67
Candidate Starts for Lebo14_33:
(33, 28376), (Start: 67 @28472 has 23 MA's), (80, 28493), (87, 28502), (115, 28589), (119, 28604), (137, 28664), (139, 28670), (143, 28688), (149, 28712), (154, 28733), (158, 28745), (160, 28754), (162, 28769), (167, 28790), (185, 28850),

Gene: Leston_31 Start: 28090, Stop: 28497, Start Num: 66
Candidate Starts for Leston_31:
(Start: 41 @28045 has 16 MA's), (Start: 66 @28090 has 3 MA's), (73, 28102), (80, 28114), (99, 28162), (102, 28174), (103, 28180), (114, 28207), (129, 28261), (133, 28270), (137, 28285), (147, 28324), (152, 28345), (164, 28399), (165, 28402), (174, 28435),

Gene: LestyG_17 Start: 14570, Stop: 15004, Start Num: 52
Candidate Starts for LestyG_17:
(27, 14465), (Start: 52 @14570 has 55 MA's), (84, 14624), (109, 14690), (163, 14891), (164, 14894),

Gene: Lidong_33 Start: 39941, Stop: 40378, Start Num: 60
Candidate Starts for Lidong_33:
(Start: 38 @39887 has 21 MA's), (Start: 60 @39941 has 46 MA's), (Start: 66 @39953 has 3 MA's), (80, 39974), (102, 40034), (109, 40055), (150, 40196), (165, 40265),

Gene: Ligma_14 Start: 12949, Stop: 13329, Start Num: 79
Candidate Starts for Ligma_14:
(Start: 79 @12949 has 18 MA's), (109, 13024), (118, 13051), (139, 13120), (156, 13189), (160, 13204), (175, 13267), (178, 13282),

Gene: LilDirt_30 Start: 27749, Stop: 28198, Start Num: 43
Candidate Starts for LilDirt_30:
(1, 27233), (2, 27347), (Start: 41 @27746 has 16 MA's), (Start: 43 @27749 has 6 MA's), (Start: 66 @27791 has 3 MA's), (73, 27803), (80, 27815), (99, 27863), (102, 27875), (103, 27881), (111, 27899), (114, 27908), (129, 27962), (133, 27971), (137, 27986), (147, 28025), (149, 28034), (152, 28046), (162, 28091), (164, 28100), (165, 28103), (170, 28124), (174, 28136),

Gene: LilHazelnut_34 Start: 29596, Stop: 30006, Start Num: 57
Candidate Starts for LilHazelnut_34:
(Start: 57 @29596 has 26 MA's), (102, 29698), (121, 29764), (125, 29776), (129, 29788), (136, 29809), (159, 29896), (182, 29989),

Gene: LilPharaoh_28 Start: 26747, Stop: 27205, Start Num: 50
Candidate Starts for LilPharaoh_28:
(21, 26528), (Start: 50 @26747 has 135 MA's), (Start: 66 @26777 has 3 MA's), (70, 26783), (80, 26801), (102, 26861), (111, 26885), (114, 26894), (115, 26897), (118, 26909), (129, 26948), (133, 26957), (134, 26960), (147, 27011), (152, 27032), (156, 27047), (165, 27089), (168, 27101),

Gene: LindNT_32 Start: 27310, Stop: 27750, Start Num: 50
Candidate Starts for LindNT_32:
(17, 27073), (31, 27247), (Start: 50 @27310 has 135 MA's), (Start: 66 @27340 has 3 MA's), (70, 27346), (73, 27352), (80, 27364), (99, 27412), (103, 27430), (114, 27457), (129, 27511), (133, 27520), (147, 27574), (165, 27652), (174, 27685), (195, 27742),

Gene: Linetti_33 Start: 38505, Stop: 38972, Start Num: 60
Candidate Starts for Linetti_33:
(Start: 38 @38451 has 21 MA's), (Start: 60 @38505 has 46 MA's), (Start: 66 @38517 has 3 MA's), (80, 38538), (111, 38622), (113, 38628), (136, 38706), (149, 38757), (165, 38829), (180, 38886), (190, 38910), (192, 38919), (198, 38937),

Gene: LittleMunchkin_15 Start: 14381, Stop: 14770, Start Num: 74
Candidate Starts for LittleMunchkin_15:
(Start: 74 @14381 has 10 MA's), (Start: 79 @14393 has 18 MA's), (98, 14423), (118, 14495), (139, 14564), (154, 14627), (156, 14633), (175, 14711), (178, 14726),

Gene: Lizzo_32 Start: 38214, Stop: 38735, Start Num: 38
Candidate Starts for Lizzo_32:
(Start: 38 @38214 has 21 MA's), (Start: 60 @38268 has 46 MA's), (Start: 66 @38280 has 3 MA's), (80, 38301), (111, 38385), (136, 38469), (149, 38520), (152, 38532), (165, 38592), (180, 38649), (192, 38682), (196, 38697),

Gene: Llorens_32 Start: 27377, Stop: 27817, Start Num: 50
Candidate Starts for Llorens_32:
(31, 27314), (Start: 50 @27377 has 135 MA's), (Start: 66 @27407 has 3 MA's), (70, 27413), (73, 27419), (80, 27431), (99, 27479), (103, 27497), (114, 27524), (129, 27578), (133, 27587), (147, 27641), (152, 27662), (165, 27719), (174, 27752), (195, 27809),

Gene: Lokum_32 Start: 27378, Stop: 27818, Start Num: 50
Candidate Starts for Lokum_32:
(31, 27315), (Start: 50 @27378 has 135 MA's), (Start: 66 @27408 has 3 MA's), (70, 27414), (73, 27420), (80, 27432), (99, 27480), (103, 27498), (114, 27525), (129, 27579), (133, 27588), (147, 27642), (152, 27663), (165, 27720), (174, 27753), (195, 27810),

Gene: Lozinak_52 Start: 33369, Stop: 33776, Start Num: 90
Candidate Starts for Lozinak_52:
(Start: 90 @33369 has 16 MA's), (107, 33432), (109, 33435), (141, 33537), (165, 33648), (176, 33690), (201, 33765),

Gene: Luke_34 Start: 29551, Stop: 29961, Start Num: 57
Candidate Starts for Luke_34:

(Start: 57 @29551 has 26 MA's), (102, 29653), (121, 29719), (125, 29731), (129, 29743), (136, 29764), (159, 29851), (182, 29944),

Gene: Luker_34 Start: 40160, Stop: 40597, Start Num: 60
Candidate Starts for Luker_34:
(Start: 38 @40106 has 21 MA's), (Start: 60 @40160 has 46 MA's), (Start: 66 @40172 has 3 MA's), (80, 40193), (102, 40253), (109, 40274), (150, 40415), (165, 40484),

Gene: Luna22_33 Start: 29596, Stop: 30006, Start Num: 57
Candidate Starts for Luna22_33:
(Start: 57 @29596 has 26 MA's), (102, 29698), (121, 29764), (125, 29776), (129, 29788), (136, 29809), (159, 29896), (182, 29989),

Gene: Lunahalos_32 Start: 27377, Stop: 27817, Start Num: 50
Candidate Starts for Lunahalos_32:
(31, 27314), (Start: 50 @27377 has 135 MA's), (Start: 66 @27407 has 3 MA's), (70, 27413), (73, 27419), (80, 27431), (99, 27479), (103, 27497), (114, 27524), (129, 27578), (133, 27587), (147, 27641), (152, 27662), (165, 27719), (174, 27752), (195, 27809),

Gene: MacKat_32 Start: 27354, Stop: 27794, Start Num: 50
Candidate Starts for MacKat_32:
(31, 27291), (Start: 50 @27354 has 135 MA's), (Start: 66 @27384 has 3 MA's), (70, 27390), (73, 27396), (80, 27408), (99, 27456), (103, 27474), (114, 27501), (129, 27555), (133, 27564), (147, 27618), (152, 27639), (165, 27696), (174, 27729), (195, 27786),

Gene: MacnCheese_33 Start: 28230, Stop: 28682, Start Num: 50
Candidate Starts for MacnCheese_33:
(39, 28197), (Start: 50 @28230 has 135 MA's), (62, 28251), (Start: 66 @28260 has 3 MA's), (103, 28350), (114, 28377), (115, 28380), (123, 28416), (129, 28431), (147, 28494), (152, 28515), (165, 28572), (168, 28584), (174, 28605), (190, 28653),

Gene: MakoManhole_16 Start: 14381, Stop: 14782, Start Num: 59
Candidate Starts for MakoManhole_16:
(Start: 59 @14381 has 8 MA's), (69, 14402), (Start: 86 @14429 has 2 MA's), (114, 14507), (145, 14618), (152, 14645), (154, 14654), (156, 14660), (167, 14711), (172, 14729), (178, 14753), (186, 14771), (187, 14774),

Gene: MalagasyRose_32 Start: 26704, Stop: 27135, Start Num: 53
Candidate Starts for MalagasyRose_32:
(Start: 53 @26704 has 1 MA's), (Start: 60 @26713 has 46 MA's), (Start: 67 @26725 has 23 MA's), (69, 26728), (72, 26734), (80, 26746), (85, 26752), (95, 26770), (102, 26806), (103, 26812), (111, 26830), (114, 26839), (115, 26842), (126, 26884), (129, 26893), (133, 26902), (137, 26917), (147, 26956), (149, 26965), (152, 26977), (165, 27034), (170, 27055), (194, 27121),

Gene: Malthus_34 Start: 28383, Stop: 28781, Start Num: 67
Candidate Starts for Malthus_34:
(Start: 67 @28383 has 23 MA's), (80, 28404), (87, 28413), (115, 28500), (119, 28515), (139, 28581), (143, 28599), (149, 28623), (154, 28644), (158, 28656), (160, 28665), (162, 28680), (167, 28701), (169, 28710),

Gene: Mao1_12 Start: 11984, Stop: 12379, Start Num: 52
Candidate Starts for Mao1_12:

(Start: 52 @11984 has 55 MA's), (Start: 71 @12017 has 7 MA's), (105, 12095), (136, 12191), (149, 12242), (151, 12248), (152, 12254), (154, 12263), (163, 12305),

Gene: Marcoliusprime_30 Start: 26028, Stop: 26414, Start Num: 89
Candidate Starts for Marcoliusprime_30:
(Start: 89 @26028 has 11 MA's), (Start: 91 @26031 has 5 MA's), (112, 26103), (114, 26109), (117, 26118), (118, 26124), (122, 26145), (126, 26154), (129, 26163), (133, 26172), (149, 26235), (154, 26256), (159, 26274), (160, 26277),

Gene: Mariokart_14 Start: 12852, Stop: 13238, Start Num: 74
Candidate Starts for Mariokart_14:
(Start: 74 @12852 has 10 MA's), (Start: 79 @12864 has 18 MA's), (105, 12930), (118, 12966), (136, 13026), (139, 13035), (156, 13104), (160, 13119), (183, 13209),

Gene: MarkPhew_32 Start: 26343, Stop: 26798, Start Num: 50
Candidate Starts for MarkPhew_32:
(31, 26280), (36, 26298), (Start: 50 @26343 has 135 MA's), (Start: 66 @26373 has 3 MA's), (68, 26376), (82, 26400), (104, 26466), (114, 26490), (129, 26544), (150, 26619), (165, 26685),

Gene: Marley1013_17 Start: 15350, Stop: 15784, Start Num: 52
Candidate Starts for Marley1013_17:
(27, 15245), (Start: 52 @15350 has 55 MA's), (84, 15404), (109, 15470), (163, 15671), (164, 15674),

Gene: Marshawn_33 Start: 27023, Stop: 27481, Start Num: 50
Candidate Starts for Marshawn_33:
(24, 26900), (31, 26960), (Start: 50 @27023 has 135 MA's), (Start: 66 @27053 has 3 MA's), (103, 27143), (114, 27170), (129, 27224), (147, 27287), (149, 27296), (152, 27308), (165, 27365), (168, 27377),

Gene: Mask_13 Start: 11985, Stop: 12380, Start Num: 52
Candidate Starts for Mask_13:
(Start: 52 @11985 has 55 MA's), (Start: 71 @12018 has 7 MA's), (105, 12096), (136, 12192), (149, 12243), (151, 12249), (152, 12255), (154, 12264), (163, 12306),

Gene: Mbo2_27 Start: 28891, Stop: 29355, Start Num: 86
Candidate Starts for Mbo2_27:
(Start: 86 @28891 has 2 MA's), (108, 28954), (110, 28957), (120, 28987), (124, 29014), (127, 29023), (139, 29053), (149, 29095), (153, 29113), (156, 29122), (159, 29134), (165, 29164), (167, 29173),

Gene: McMater_32 Start: 26622, Stop: 27086, Start Num: 50
Candidate Starts for McMater_32:
(24, 26496), (25, 26523), (Start: 50 @26622 has 135 MA's), (Start: 66 @26652 has 3 MA's), (70, 26658), (73, 26664), (80, 26676), (99, 26724), (102, 26736), (114, 26769), (115, 26772), (129, 26823), (147, 26886), (152, 26907), (156, 26922), (162, 26952), (165, 26964), (168, 26976),

Gene: Mdavu_28 Start: 26735, Stop: 27193, Start Num: 50
Candidate Starts for Mdavu_28:
(21, 26516), (Start: 50 @26735 has 135 MA's), (Start: 66 @26765 has 3 MA's), (70, 26771), (80, 26789), (102, 26849), (111, 26873), (114, 26882), (115, 26885), (118, 26897), (129, 26936), (133, 26945), (134, 26948), (147, 26999), (152, 27020), (156, 27035), (165, 27077), (168, 27089),

Gene: MeaningOfLife_32 Start: 27313, Stop: 27762, Start Num: 50
Candidate Starts for MeaningOfLife_32:

(17, 27076), (31, 27250), (Start: 50 @27313 has 135 MA's), (Start: 66 @27343 has 3 MA's), (70, 27349), (73, 27355), (80, 27367), (99, 27415), (103, 27433), (114, 27460), (129, 27514), (133, 27523), (147, 27577), (152, 27598), (165, 27655),

Gene: Megatron06_37 Start: 32916, Stop: 33377, Start Num: 58
Candidate Starts for Megatron06_37:
(Start: 58 @32916 has 10 MA's), (Start: 64 @32928 has 11 MA's), (78, 32952), (93, 32979), (106, 33036), (111, 33045), (113, 33051), (116, 33060), (118, 33069), (121, 33087), (136, 33132), (137, 33135), (146, 33171), (155, 33207), (160, 33225), (171, 33276), (181, 33312),

Gene: Megsy_32 Start: 27313, Stop: 27753, Start Num: 50
Candidate Starts for Megsy_32:
(17, 27076), (31, 27250), (Start: 50 @27313 has 135 MA's), (Start: 66 @27343 has 3 MA's), (70, 27349), (73, 27355), (80, 27367), (99, 27415), (103, 27433), (114, 27460), (129, 27514), (133, 27523), (147, 27577), (165, 27655), (174, 27688), (195, 27745),

Gene: Milly_30 Start: 26001, Stop: 26387, Start Num: 89
Candidate Starts for Milly_30:
(Start: 89 @26001 has 11 MA's), (Start: 91 @26004 has 5 MA's), (95, 26013), (112, 26076), (114, 26082), (117, 26091), (118, 26097), (122, 26118), (126, 26127), (129, 26136), (133, 26145), (149, 26208), (154, 26229), (159, 26247), (160, 26250),

Gene: Minos_34 Start: 39683, Stop: 40120, Start Num: 60
Candidate Starts for Minos_34:
(Start: 38 @39629 has 21 MA's), (Start: 60 @39683 has 46 MA's), (Start: 66 @39695 has 3 MA's), (80, 39716), (102, 39776), (109, 39797), (150, 39938), (165, 40007),

Gene: Miryou_31 Start: 27900, Stop: 28352, Start Num: 41
Candidate Starts for Miryou_31:
(Start: 41 @27900 has 16 MA's), (Start: 66 @27945 has 3 MA's), (73, 27957), (80, 27969), (99, 28017), (102, 28029), (103, 28035), (114, 28062), (129, 28116), (133, 28125), (137, 28140), (147, 28179), (152, 28200), (164, 28254), (165, 28257), (174, 28290),

Gene: Miskis_49 Start: 32674, Stop: 33081, Start Num: 90
Candidate Starts for Miskis_49:
(Start: 90 @32674 has 16 MA's), (107, 32737), (109, 32740), (141, 32842), (165, 32953), (176, 32995), (201, 33070),

Gene: MissDaisy_33 Start: 28226, Stop: 28624, Start Num: 67
Candidate Starts for MissDaisy_33:
(7, 27848), (10, 27857), (18, 27938), (28, 28106), (Start: 67 @28226 has 23 MA's), (80, 28247), (87, 28256), (115, 28343), (118, 28355), (133, 28403), (137, 28418), (139, 28424), (143, 28442), (149, 28466), (154, 28487), (162, 28523), (166, 28541), (167, 28544), (185, 28604),

Gene: Mitti_33 Start: 28384, Stop: 28782, Start Num: 67
Candidate Starts for Mitti_33:
(28, 28264), (Start: 67 @28384 has 23 MA's), (80, 28405), (87, 28414), (115, 28501), (119, 28516), (137, 28576), (139, 28582), (143, 28600), (149, 28624), (154, 28645), (158, 28657), (160, 28666), (162, 28681), (167, 28702), (185, 28762),

Gene: MmasiCarm_17 Start: 14563, Stop: 14997, Start Num: 52
Candidate Starts for MmasiCarm_17:
(27, 14458), (Start: 52 @14563 has 55 MA's), (84, 14617), (109, 14683), (163, 14884), (164, 14887),

Gene: ModicumRichard_31 Start: 27120, Stop: 27479, Start Num: 71
Candidate Starts for ModicumRichard_31:
(Start: 71 @27120 has 7 MA's), (Start: 77 @27126 has 1 MA's), (112, 27213), (138, 27303), (142, 27315), (156, 27372),

Gene: Mollymur_34 Start: 31778, Stop: 32188, Start Num: 79
Candidate Starts for Mollymur_34:
(Start: 79 @31778 has 18 MA's), (115, 31868), (160, 32039),

Gene: Monty_31 Start: 37418, Stop: 37885, Start Num: 60
Candidate Starts for Monty_31:
(Start: 38 @37364 has 21 MA's), (Start: 60 @37418 has 46 MA's), (Start: 66 @37430 has 3 MA's), (80, 37451), (111, 37535), (136, 37619), (149, 37670), (152, 37682), (165, 37742), (180, 37799), (192, 37832), (196, 37847),

Gene: Morgana_31 Start: 26876, Stop: 27235, Start Num: 71
Candidate Starts for Morgana_31:
(34, 26768), (Start: 71 @26876 has 7 MA's), (Start: 77 @26882 has 1 MA's), (112, 26969), (138, 27059), (142, 27071), (156, 27128),

Gene: Mortcellus_16 Start: 15204, Stop: 15638, Start Num: 52
Candidate Starts for Mortcellus_16:
(27, 15099), (Start: 52 @15204 has 55 MA's), (84, 15258), (109, 15324), (163, 15525), (164, 15528),

Gene: Morty007_17 Start: 15350, Stop: 15784, Start Num: 52
Candidate Starts for Morty007_17:
(27, 15245), (Start: 52 @15350 has 55 MA's), (84, 15404), (109, 15470), (163, 15671), (164, 15674),

Gene: MossRose_16 Start: 14360, Stop: 14761, Start Num: 59
Candidate Starts for MossRose_16:
(Start: 59 @14360 has 8 MA's), (69, 14381), (Start: 86 @14408 has 2 MA's), (114, 14486), (145, 14597), (152, 14624), (154, 14633), (156, 14639), (172, 14708), (178, 14732), (186, 14750), (187, 14753),

Gene: MrMiyagi_30 Start: 29201, Stop: 29620, Start Num: 74
Candidate Starts for MrMiyagi_30:
(44, 29147), (Start: 74 @29201 has 10 MA's), (81, 29216), (96, 29240), (101, 29273), (182, 29570), (187, 29582), (193, 29600),

Gene: MrWormie_33 Start: 38844, Stop: 39281, Start Num: 60
Candidate Starts for MrWormie_33:
(Start: 38 @38790 has 21 MA's), (Start: 60 @38844 has 46 MA's), (Start: 66 @38856 has 3 MA's), (80, 38877), (102, 38937), (109, 38958), (150, 39099), (165, 39168),

Gene: Msay19_37 Start: 39614, Stop: 40081, Start Num: 60
Candidate Starts for Msay19_37:
(Start: 38 @39560 has 21 MA's), (Start: 60 @39614 has 46 MA's), (Start: 66 @39626 has 3 MA's), (80, 39647), (102, 39707), (111, 39731), (136, 39815), (149, 39866), (152, 39878), (165, 39938), (180, 39995), (192, 40028), (196, 40043),

Gene: Mufasa_31 Start: 26109, Stop: 26495, Start Num: 89
Candidate Starts for Mufasa_31:

(Start: 89 @26109 has 11 MA's), (Start: 91 @26112 has 5 MA's), (112, 26184), (114, 26190), (117, 26199), (118, 26205), (122, 26226), (126, 26235), (128, 26241), (129, 26244), (133, 26253), (149, 26316), (154, 26337), (159, 26355), (160, 26358),

Gene: Mulaychimus_17 Start: 14543, Stop: 14977, Start Num: 52
Candidate Starts for Mulaychimus_17:
(27, 14438), (Start: 52 @14543 has 55 MA's), (84, 14597), (109, 14663), (163, 14864), (164, 14867),

Gene: Murucutumbu_32 Start: 27289, Stop: 27729, Start Num: 50
Candidate Starts for Murucutumbu_32:
(17, 27052), (Start: 50 @27289 has 135 MA's), (Start: 66 @27319 has 3 MA's), (70, 27325), (73, 27331), (80, 27343), (99, 27391), (103, 27409), (114, 27436), (123, 27475), (129, 27490), (133, 27499), (147, 27553), (165, 27631), (195, 27721),

Gene: Mynx_32 Start: 27360, Stop: 27800, Start Num: 50
Candidate Starts for Mynx_32:
(17, 27123), (31, 27297), (Start: 50 @27360 has 135 MA's), (Start: 66 @27390 has 3 MA's), (70, 27396), (73, 27402), (80, 27414), (99, 27462), (103, 27480), (114, 27507), (129, 27561), (133, 27570), (147, 27624), (152, 27645), (165, 27702), (174, 27735), (195, 27792),

Gene: NHagos_14 Start: 12851, Stop: 13228, Start Num: 71
Candidate Starts for NHagos_14:
(Start: 71 @12851 has 7 MA's), (98, 12896), (105, 12932), (109, 12941), (130, 13010), (134, 13019), (154, 13100), (156, 13106), (167, 13157), (172, 13175),

Gene: Neighly_32 Start: 27783, Stop: 28235, Start Num: 41
Candidate Starts for Neighly_32:
(Start: 41 @27783 has 16 MA's), (Start: 43 @27786 has 6 MA's), (Start: 66 @27828 has 3 MA's), (73, 27840), (80, 27852), (99, 27900), (102, 27912), (103, 27918), (111, 27936), (114, 27945), (133, 28008), (137, 28023), (147, 28062), (149, 28071), (152, 28083), (164, 28137), (165, 28140), (170, 28161), (174, 28173),

Gene: Neoevie_33 Start: 39947, Stop: 40384, Start Num: 60
Candidate Starts for Neoevie_33:
(Start: 38 @39893 has 21 MA's), (Start: 60 @39947 has 46 MA's), (Start: 66 @39959 has 3 MA's), (80, 39980), (102, 40040), (109, 40061), (150, 40202), (165, 40271),

Gene: Neos5_17 Start: 15356, Stop: 15790, Start Num: 52
Candidate Starts for Neos5_17:
(27, 15251), (Start: 52 @15356 has 55 MA's), (84, 15410), (109, 15476), (163, 15677), (164, 15680),

Gene: Nergal_28 Start: 25031, Stop: 25495, Start Num: 47
Candidate Starts for Nergal_28:
(Start: 47 @25031 has 1 MA's), (56, 25046), (99, 25139), (103, 25157), (114, 25184), (115, 25187), (129, 25238), (133, 25247), (147, 25301), (152, 25322), (158, 25343), (165, 25379), (168, 25391),

Gene: Newt_34 Start: 40174, Stop: 40611, Start Num: 60
Candidate Starts for Newt_34:
(Start: 38 @40120 has 21 MA's), (Start: 60 @40174 has 46 MA's), (Start: 66 @40186 has 3 MA's), (80, 40207), (102, 40267), (109, 40288), (150, 40429), (165, 40498),

Gene: Niagara_31 Start: 39055, Stop: 39489, Start Num: 64
Candidate Starts for Niagara_31:

(Start: 64 @39055 has 11 MA's), (80, 39076), (94, 39094), (101, 39127), (146, 39277), (150, 39292), (154, 39310), (158, 39322), (165, 39358), (166, 39364), (190, 39439),

Gene: Nibb_31 Start: 26478, Stop: 26939, Start Num: 50
Candidate Starts for Nibb_31:
(31, 26415), (Start: 50 @26478 has 135 MA's), (Start: 66 @26508 has 3 MA's), (68, 26511), (82, 26535), (103, 26598), (114, 26625), (129, 26679), (150, 26754), (162, 26808), (165, 26820), (169, 26838), (199, 26931),

Gene: Nikao_28 Start: 26747, Stop: 27205, Start Num: 50
Candidate Starts for Nikao_28:
(21, 26528), (Start: 50 @26747 has 135 MA's), (Start: 66 @26777 has 3 MA's), (70, 26783), (80, 26801), (102, 26861), (111, 26885), (114, 26894), (115, 26897), (118, 26909), (129, 26948), (133, 26957), (134, 26960), (147, 27011), (152, 27032), (156, 27047), (165, 27089), (168, 27101),

Gene: Niklas_32 Start: 26625, Stop: 27089, Start Num: 50
Candidate Starts for Niklas_32:
(24, 26499), (25, 26526), (Start: 50 @26625 has 135 MA's), (Start: 66 @26655 has 3 MA's), (70, 26661), (73, 26667), (80, 26679), (99, 26727), (102, 26739), (114, 26772), (115, 26775), (129, 26826), (147, 26889), (152, 26910), (156, 26925), (162, 26955), (165, 26967), (168, 26979),

Gene: Nimi13_33 Start: 39692, Stop: 40129, Start Num: 60
Candidate Starts for Nimi13_33:
(Start: 38 @39638 has 21 MA's), (Start: 60 @39692 has 46 MA's), (Start: 66 @39704 has 3 MA's), (80, 39725), (102, 39785), (109, 39806), (150, 39947), (165, 40016),

Gene: Nish23_36 Start: 32382, Stop: 32843, Start Num: 58
Candidate Starts for Nish23_36:
(Start: 58 @32382 has 10 MA's), (Start: 64 @32394 has 11 MA's), (78, 32418), (93, 32445), (106, 32502), (111, 32511), (113, 32517), (116, 32526), (118, 32535), (121, 32553), (136, 32598), (137, 32601), (146, 32637), (155, 32673), (160, 32691), (171, 32742), (181, 32778),

Gene: Nolwazi_34 Start: 28384, Stop: 28782, Start Num: 67
Candidate Starts for Nolwazi_34:
(28, 28264), (Start: 67 @28384 has 23 MA's), (80, 28405), (87, 28414), (115, 28501), (119, 28516), (137, 28576), (139, 28582), (143, 28600), (149, 28624), (154, 28645), (158, 28657), (160, 28666), (162, 28681), (167, 28702), (185, 28762),

Gene: Norvs_52 Start: 32913, Stop: 33320, Start Num: 90
Candidate Starts for Norvs_52:
(Start: 90 @32913 has 16 MA's), (107, 32976), (109, 32979), (141, 33081), (165, 33192), (176, 33234), (201, 33309),

Gene: November_30 Start: 27559, Stop: 28023, Start Num: 49
Candidate Starts for November_30:
(Start: 49 @27559 has 12 MA's), (Start: 66 @27589 has 3 MA's), (80, 27613), (100, 27667), (103, 27679), (114, 27706), (129, 27760), (147, 27823), (165, 27901), (168, 27913),

Gene: NovoPizza_29 Start: 29282, Stop: 29686, Start Num: 65
Candidate Starts for NovoPizza_29:
(Start: 65 @29282 has 1 MA's), (Start: 86 @29318 has 2 MA's), (104, 29378), (105, 29381), (109, 29390), (122, 29438), (125, 29447), (150, 29531), (163, 29591), (173, 29627),

Gene: Nozo_17 Start: 15331, Stop: 15762, Start Num: 52
Candidate Starts for Nozo_17:
(27, 15226), (Start: 52 @15331 has 55 MA's), (84, 15385), (109, 15451), (163, 15652), (164, 15655),

Gene: Nutello_28 Start: 26747, Stop: 27205, Start Num: 50
Candidate Starts for Nutello_28:
(21, 26528), (Start: 50 @26747 has 135 MA's), (Start: 66 @26777 has 3 MA's), (70, 26783), (80, 26801), (102, 26861), (111, 26885), (114, 26894), (115, 26897), (118, 26909), (129, 26948), (133, 26957), (134, 26960), (147, 27011), (152, 27032), (156, 27047), (165, 27089), (168, 27101),

Gene: OBUpride_34 Start: 29590, Stop: 30000, Start Num: 57
Candidate Starts for OBUpride_34:
(Start: 57 @29590 has 26 MA's), (102, 29692), (121, 29758), (125, 29770), (129, 29782), (136, 29803), (159, 29890), (182, 29983),

Gene: Oaker_35 Start: 32640, Stop: 33101, Start Num: 58
Candidate Starts for Oaker_35:
(Start: 58 @32640 has 10 MA's), (Start: 64 @32652 has 11 MA's), (78, 32676), (93, 32703), (106, 32760), (107, 32763), (111, 32769), (113, 32775), (116, 32784), (118, 32793), (136, 32856), (137, 32859), (146, 32895), (155, 32931), (160, 32949), (171, 33000), (181, 33036),

Gene: ObLaDi_31 Start: 27099, Stop: 27458, Start Num: 71
Candidate Starts for ObLaDi_31:
(Start: 71 @27099 has 7 MA's), (Start: 77 @27105 has 1 MA's), (112, 27192), (138, 27282), (142, 27294), (156, 27351),

Gene: Obutu_17 Start: 14561, Stop: 14995, Start Num: 52
Candidate Starts for Obutu_17:
(27, 14456), (Start: 52 @14561 has 55 MA's), (84, 14615), (109, 14681), (163, 14882), (164, 14885),

Gene: OkiRoe_31 Start: 27916, Stop: 28368, Start Num: 41
Candidate Starts for OkiRoe_31:
(Start: 41 @27916 has 16 MA's), (Start: 66 @27961 has 3 MA's), (73, 27973), (80, 27985), (99, 28033), (102, 28045), (103, 28051), (114, 28078), (129, 28132), (133, 28141), (137, 28156), (147, 28195), (152, 28216), (164, 28270), (165, 28273), (174, 28306),

Gene: OmniCritical_33 Start: 28368, Stop: 28766, Start Num: 67
Candidate Starts for OmniCritical_33:
(28, 28248), (Start: 67 @28368 has 23 MA's), (80, 28389), (87, 28398), (115, 28485), (119, 28500), (137, 28560), (139, 28566), (143, 28584), (149, 28608), (154, 28629), (158, 28641), (160, 28650), (162, 28665), (167, 28686), (185, 28746),

Gene: Omnicron_32 Start: 26804, Stop: 27253, Start Num: 41
Candidate Starts for Omnicron_32:
(Start: 41 @26804 has 16 MA's), (Start: 66 @26849 has 3 MA's), (68, 26852), (73, 26861), (80, 26873), (100, 26927), (103, 26939), (111, 26957), (114, 26966), (129, 27020), (133, 27029), (137, 27044), (147, 27083), (149, 27092), (150, 27095), (152, 27104), (164, 27158), (165, 27161), (170, 27182), (174, 27194),

Gene: OneUp_45 Start: 30331, Stop: 30756, Start Num: 79
Candidate Starts for OneUp_45:
(Start: 79 @30331 has 18 MA's), (97, 30364), (118, 30442), (119, 30445), (134, 30493), (141, 30517), (162, 30616), (165, 30628),

Gene: OrangeOswald_17 Start: 14566, Stop: 15000, Start Num: 52
Candidate Starts for OrangeOswald_17:
(27, 14461), (Start: 52 @14566 has 55 MA's), (84, 14620), (109, 14686), (163, 14887), (164, 14890),

Gene: Orchid_30 Start: 35152, Stop: 35535, Start Num: 83
Candidate Starts for Orchid_30:
(Start: 83 @35152 has 5 MA's), (115, 35248), (150, 35374), (154, 35392), (160, 35413),

Gene: Oscar_31 Start: 26446, Stop: 26901, Start Num: 50
Candidate Starts for Oscar_31:
(Start: 50 @26446 has 135 MA's), (Start: 66 @26476 has 3 MA's), (68, 26479), (82, 26503), (103, 26566), (114, 26593), (115, 26596), (129, 26647), (147, 26710), (165, 26788), (169, 26806),

Gene: Padfoot_32 Start: 27377, Stop: 27817, Start Num: 50
Candidate Starts for Padfoot_32:
(31, 27314), (Start: 50 @27377 has 135 MA's), (Start: 66 @27407 has 3 MA's), (70, 27413), (73, 27419), (80, 27431), (99, 27479), (103, 27497), (114, 27524), (129, 27578), (133, 27587), (146, 27638), (147, 27641), (152, 27662), (165, 27719), (174, 27752), (195, 27809),

Gene: Padpat_32 Start: 27337, Stop: 27777, Start Num: 50
Candidate Starts for Padpat_32:
(17, 27100), (31, 27274), (Start: 50 @27337 has 135 MA's), (Start: 66 @27367 has 3 MA's), (70, 27373), (73, 27379), (80, 27391), (99, 27439), (103, 27457), (114, 27484), (129, 27538), (133, 27547), (147, 27601), (152, 27622), (165, 27679), (174, 27712), (195, 27769),

Gene: Paola_31 Start: 27915, Stop: 28367, Start Num: 41
Candidate Starts for Paola_31:
(Start: 41 @27915 has 16 MA's), (Start: 66 @27960 has 3 MA's), (73, 27972), (80, 27984), (99, 28032), (102, 28044), (103, 28050), (114, 28077), (129, 28131), (133, 28140), (137, 28155), (147, 28194), (152, 28215), (164, 28269), (165, 28272), (174, 28305),

Gene: PatrickStar_30 Start: 35152, Stop: 35535, Start Num: 83
Candidate Starts for PatrickStar_30:
(Start: 83 @35152 has 5 MA's), (115, 35248), (150, 35374), (154, 35392), (160, 35413),

Gene: Patt_33 Start: 28202, Stop: 28600, Start Num: 67
Candidate Starts for Patt_33:
(7, 27824), (10, 27833), (18, 27914), (28, 28082), (Start: 67 @28202 has 23 MA's), (80, 28223), (87, 28232), (115, 28319), (118, 28331), (133, 28379), (137, 28394), (139, 28400), (143, 28418), (149, 28442), (154, 28463), (162, 28499), (166, 28517), (167, 28520), (185, 28580),

Gene: Peanam_32 Start: 26622, Stop: 27086, Start Num: 50
Candidate Starts for Peanam_32:
(24, 26496), (Start: 50 @26622 has 135 MA's), (Start: 66 @26652 has 3 MA's), (70, 26658), (73, 26664), (80, 26676), (99, 26724), (102, 26736), (114, 26769), (115, 26772), (129, 26823), (147, 26886), (152, 26907), (156, 26922), (162, 26952), (165, 26964), (168, 26976),

Gene: Peel_32 Start: 27377, Stop: 27817, Start Num: 50
Candidate Starts for Peel_32:
(31, 27314), (Start: 50 @27377 has 135 MA's), (Start: 66 @27407 has 3 MA's), (70, 27413), (73, 27419), (80, 27431), (99, 27479), (103, 27497), (114, 27524), (129, 27578), (133, 27587), (147, 27641), (152, 27662), (165, 27719), (174, 27752), (195, 27809),

Gene: Pharb_31 Start: 27504, Stop: 27944, Start Num: 50
Candidate Starts for Pharb_31:
(Start: 50 @27504 has 135 MA's), (62, 27525), (Start: 66 @27534 has 3 MA's), (103, 27624), (114, 27651), (115, 27654), (123, 27690), (129, 27705), (133, 27714), (147, 27768), (154, 27798), (165, 27846), (184, 27915),

Gene: Phayeta_17 Start: 14442, Stop: 14876, Start Num: 52
Candidate Starts for Phayeta_17:
(27, 14337), (Start: 52 @14442 has 55 MA's), (84, 14496), (109, 14562), (163, 14763), (164, 14766),

Gene: PhelpsODU_32 Start: 26653, Stop: 27117, Start Num: 50
Candidate Starts for PhelpsODU_32:
(Start: 50 @26653 has 135 MA's), (62, 26674), (Start: 66 @26683 has 3 MA's), (68, 26686), (80, 26707), (85, 26713), (102, 26767), (103, 26773), (114, 26800), (147, 26917), (165, 26995), (168, 27007), (187, 27070),

Gene: Philly_16 Start: 14432, Stop: 14866, Start Num: 52
Candidate Starts for Philly_16:
(27, 14327), (Start: 52 @14432 has 55 MA's), (84, 14486), (109, 14552), (163, 14753), (164, 14756),

Gene: Philon9_33 Start: 40236, Stop: 40667, Start Num: 64
Candidate Starts for Philon9_33:
(Start: 64 @40236 has 11 MA's), (Start: 67 @40242 has 23 MA's), (101, 40311), (103, 40320), (107, 40332), (125, 40392), (140, 40434), (146, 40461), (150, 40476), (154, 40494), (165, 40542), (168, 40554), (180, 40599),

Gene: PhinkBoden_51 Start: 33294, Stop: 33701, Start Num: 90
Candidate Starts for PhinkBoden_51:
(Start: 90 @33294 has 16 MA's), (107, 33357), (109, 33360), (141, 33462), (165, 33573), (176, 33615), (201, 33690),

Gene: Phlyer_17 Start: 15300, Stop: 15734, Start Num: 52
Candidate Starts for Phlyer_17:
(27, 15195), (Start: 52 @15300 has 55 MA's), (84, 15354), (109, 15420), (163, 15621), (164, 15624),

Gene: Phrank_32 Start: 26603, Stop: 27067, Start Num: 50
Candidate Starts for Phrank_32:
(Start: 50 @26603 has 135 MA's), (62, 26624), (Start: 66 @26633 has 3 MA's), (68, 26636), (85, 26663), (102, 26717), (103, 26723), (114, 26750), (129, 26804), (150, 26879), (165, 26945), (187, 27020),

Gene: Phrappuccino_197 Start: 132691, Stop: 133080, Start Num: 79
Candidate Starts for Phrappuccino_197:
(Start: 79 @132691 has 18 MA's), (112, 132772), (115, 132781), (116, 132784), (133, 132841), (142, 132874), (154, 132925), (155, 132928), (158, 132937), (161, 132955), (163, 132967), (174, 133006),

Gene: Phreeze_35 Start: 32383, Stop: 32844, Start Num: 58
Candidate Starts for Phreeze_35:
(Start: 58 @32383 has 10 MA's), (Start: 64 @32395 has 11 MA's), (78, 32419), (93, 32446), (106, 32503), (107, 32506), (111, 32512), (113, 32518), (116, 32527), (118, 32536), (121, 32554), (136, 32599), (137, 32602), (146, 32638), (155, 32674), (160, 32692), (171, 32743), (181, 32779), (196, 32824),

Gene: Piatt_32 Start: 27377, Stop: 27817, Start Num: 50
Candidate Starts for Piatt_32:
(31, 27314), (Start: 50 @27377 has 135 MA's), (Start: 66 @27407 has 3 MA's), (70, 27413), (73, 27419), (80, 27431), (99, 27479), (103, 27497), (114, 27524), (129, 27578), (133, 27587), (146, 27638), (147, 27641), (152, 27662), (165, 27719), (174, 27752), (195, 27809),

Gene: PierreThree_32 Start: 38322, Stop: 38843, Start Num: 38
Candidate Starts for PierreThree_32:
(Start: 38 @38322 has 21 MA's), (Start: 60 @38376 has 46 MA's), (Start: 66 @38388 has 3 MA's), (80, 38409), (111, 38493), (113, 38499), (136, 38577), (149, 38628), (165, 38700), (180, 38757), (190, 38781), (192, 38790), (198, 38808),

Gene: Pipefish_17 Start: 15450, Stop: 15884, Start Num: 52
Candidate Starts for Pipefish_17:
(Start: 52 @15450 has 55 MA's), (84, 15504), (109, 15570), (163, 15771), (164, 15774),

Gene: Pisa1_31 Start: 27372, Stop: 27812, Start Num: 50
Candidate Starts for Pisa1_31:
(17, 27135), (31, 27309), (Start: 50 @27372 has 135 MA's), (Start: 66 @27402 has 3 MA's), (70, 27408), (73, 27414), (80, 27426), (99, 27474), (103, 27492), (114, 27519), (129, 27573), (133, 27582), (147, 27636), (165, 27714),

Gene: Pisa4_31 Start: 27372, Stop: 27812, Start Num: 50
Candidate Starts for Pisa4_31:
(17, 27135), (31, 27309), (Start: 50 @27372 has 135 MA's), (Start: 66 @27402 has 3 MA's), (70, 27408), (73, 27414), (80, 27426), (99, 27474), (103, 27492), (114, 27519), (129, 27573), (133, 27582), (147, 27636), (165, 27714),

Gene: Pixie_32 Start: 27737, Stop: 28183, Start Num: 50
Candidate Starts for Pixie_32:
(39, 27704), (Start: 50 @27737 has 135 MA's), (Start: 66 @27767 has 3 MA's), (103, 27857), (114, 27884), (115, 27887), (123, 27923), (129, 27938), (147, 28001), (154, 28031), (162, 28067), (165, 28079),

Gene: Pokerus_31 Start: 27294, Stop: 27734, Start Num: 50
Candidate Starts for Pokerus_31:
(17, 27057), (31, 27231), (Start: 50 @27294 has 135 MA's), (Start: 66 @27324 has 3 MA's), (70, 27330), (73, 27336), (80, 27348), (99, 27396), (103, 27414), (114, 27441), (129, 27495), (133, 27504), (147, 27558), (152, 27579), (165, 27636), (174, 27669), (195, 27726),

Gene: PokyPuppy_31 Start: 38322, Stop: 38789, Start Num: 60
Candidate Starts for PokyPuppy_31:
(Start: 60 @38322 has 46 MA's), (Start: 66 @38334 has 3 MA's), (80, 38355), (102, 38415), (111, 38439), (136, 38523), (147, 38565), (165, 38646), (180, 38703), (190, 38727), (191, 38730), (192, 38736),

Gene: Poland_37 Start: 39593, Stop: 40060, Start Num: 60
Candidate Starts for Poland_37:
(Start: 38 @39539 has 21 MA's), (Start: 60 @39593 has 46 MA's), (Start: 66 @39605 has 3 MA's), (80, 39626), (102, 39686), (111, 39710), (136, 39794), (149, 39845), (152, 39857), (165, 39917), (180, 39974), (192, 40007), (196, 40022),

Gene: Predator_37 Start: 31599, Stop: 32036, Start Num: 58
Candidate Starts for Predator_37:
(Start: 58 @31599 has 10 MA's), (Start: 64 @31611 has 11 MA's), (78, 31635), (106, 31719), (107, 31722), (111, 31728), (131, 31800), (135, 31812), (136, 31815), (155, 31890), (160, 31908), (162, 31923), (171, 31959), (181, 31995),

Gene: Prithvi_32 Start: 27310, Stop: 27750, Start Num: 50
Candidate Starts for Prithvi_32:
(17, 27073), (31, 27247), (Start: 50 @27310 has 135 MA's), (Start: 66 @27340 has 3 MA's), (70, 27346), (73, 27352), (80, 27364), (99, 27412), (103, 27430), (114, 27457), (129, 27511), (133, 27520), (147, 27574), (165, 27652), (174, 27685), (195, 27742),

Gene: Psycho_32 Start: 27959, Stop: 28366, Start Num: 66
Candidate Starts for Psycho_32:
(Start: 41 @27914 has 16 MA's), (Start: 43 @27917 has 6 MA's), (Start: 66 @27959 has 3 MA's), (73, 27971), (80, 27983), (99, 28031), (102, 28043), (103, 28049), (111, 28067), (114, 28076), (133, 28139), (137, 28154), (147, 28193), (149, 28202), (152, 28214), (164, 28268), (165, 28271), (170, 28292), (174, 28304),

Gene: Puissant_36 Start: 32872, Stop: 33333, Start Num: 58
Candidate Starts for Puissant_36:
(Start: 58 @32872 has 10 MA's), (63, 32881), (78, 32908), (106, 32992), (107, 32995), (111, 33001), (113, 33007), (116, 33016), (118, 33025), (136, 33088), (137, 33091), (146, 33127), (160, 33181), (171, 33232), (181, 33268),

Gene: Pupper_173 Start: 126534, Stop: 126953, Start Num: 61
Candidate Starts for Pupper_173:
(Start: 61 @126534 has 4 MA's), (107, 126648), (112, 126657), (149, 126789), (155, 126813), (166, 126864), (169, 126876), (173, 126888),

Gene: Qhanda_34 Start: 28480, Stop: 28878, Start Num: 67
Candidate Starts for Qhanda_34:
(Start: 67 @28480 has 23 MA's), (80, 28501), (87, 28510), (115, 28597), (119, 28612), (137, 28672), (139, 28678), (143, 28696), (149, 28720), (154, 28741), (158, 28753), (160, 28762), (162, 28777), (167, 28798), (185, 28858),

Gene: QuincyRose_31 Start: 27357, Stop: 27806, Start Num: 50
Candidate Starts for QuincyRose_31:
(17, 27120), (31, 27294), (Start: 50 @27357 has 135 MA's), (Start: 66 @27387 has 3 MA's), (70, 27393), (73, 27399), (80, 27411), (99, 27459), (103, 27477), (114, 27504), (129, 27558), (133, 27567), (147, 27621), (152, 27642), (165, 27699),

Gene: RagingRooster_17 Start: 14567, Stop: 15001, Start Num: 52
Candidate Starts for RagingRooster_17:
(27, 14462), (Start: 52 @14567 has 55 MA's), (84, 14621), (109, 14687), (163, 14888), (164, 14891),

Gene: Ramen_32 Start: 27343, Stop: 27783, Start Num: 50
Candidate Starts for Ramen_32:
(16, 27094), (31, 27280), (Start: 50 @27343 has 135 MA's), (Start: 66 @27373 has 3 MA's), (70, 27379), (73, 27385), (80, 27397), (99, 27445), (103, 27463), (114, 27490), (129, 27544), (133, 27553), (146, 27604), (147, 27607), (165, 27685), (174, 27718), (195, 27775),

Gene: Rando14_32 Start: 26763, Stop: 27212, Start Num: 41

Candidate Starts for Rando14_32:
(Start: 41 @26763 has 16 MA's), (Start: 66 @26808 has 3 MA's), (68, 26811), (73, 26820), (80, 26832), (100, 26886), (103, 26898), (111, 26916), (114, 26925), (129, 26979), (133, 26988), (137, 27003), (147, 27042), (149, 27051), (150, 27054), (152, 27063), (164, 27117), (165, 27120), (170, 27141), (174, 27153),

Gene: Rapunzel97_32 Start: 27344, Stop: 27784, Start Num: 50
Candidate Starts for Rapunzel97_32:
(17, 27107), (31, 27281), (Start: 50 @27344 has 135 MA's), (Start: 66 @27374 has 3 MA's), (70, 27380), (73, 27386), (80, 27398), (99, 27446), (103, 27464), (114, 27491), (129, 27545), (146, 27605), (147, 27608), (152, 27629), (165, 27686), (174, 27719), (195, 27776),

Gene: RemRem_33 Start: 37408, Stop: 37875, Start Num: 60
Candidate Starts for RemRem_33:
(Start: 38 @37354 has 21 MA's), (Start: 60 @37408 has 46 MA's), (Start: 66 @37420 has 3 MA's), (80, 37441), (111, 37525), (136, 37609), (149, 37660), (152, 37672), (165, 37732), (180, 37789), (192, 37822), (196, 37837),

Gene: Reptar3000_33 Start: 28193, Stop: 28591, Start Num: 67
Candidate Starts for Reptar3000_33:
(Start: 67 @28193 has 23 MA's), (80, 28214), (87, 28223), (115, 28310), (118, 28322), (133, 28370), (137, 28385), (139, 28391), (143, 28409), (149, 28433), (154, 28454), (162, 28490), (166, 28508), (167, 28511), (185, 28571),

Gene: Richo_32 Start: 26622, Stop: 27086, Start Num: 50
Candidate Starts for Richo_32:
(24, 26496), (25, 26523), (Start: 50 @26622 has 135 MA's), (Start: 66 @26652 has 3 MA's), (70, 26658), (73, 26664), (80, 26676), (99, 26724), (102, 26736), (114, 26769), (115, 26772), (129, 26823), (147, 26886), (152, 26907), (156, 26922), (162, 26952), (165, 26964), (168, 26976),

Gene: Rita1961_17 Start: 14562, Stop: 14996, Start Num: 52
Candidate Starts for Rita1961_17:
(27, 14457), (Start: 52 @14562 has 55 MA's), (84, 14616), (109, 14682), (163, 14883), (164, 14886),

Gene: RobinSparkles_33 Start: 36069, Stop: 36452, Start Num: 83
Candidate Starts for RobinSparkles_33:
(Start: 83 @36069 has 5 MA's), (115, 36165), (150, 36291), (154, 36309), (160, 36330),

Gene: RomaT_17 Start: 15347, Stop: 15781, Start Num: 52
Candidate Starts for RomaT_17:
(27, 15242), (Start: 52 @15347 has 55 MA's), (84, 15401), (109, 15467), (163, 15668), (164, 15671),

Gene: Rosmarinus_32 Start: 27365, Stop: 27805, Start Num: 50
Candidate Starts for Rosmarinus_32:
(31, 27302), (Start: 50 @27365 has 135 MA's), (Start: 66 @27395 has 3 MA's), (70, 27401), (73, 27407), (80, 27419), (99, 27467), (103, 27485), (114, 27512), (129, 27566), (133, 27575), (147, 27629), (152, 27650), (165, 27707), (174, 27740), (195, 27797),

Gene: RoyalG_33 Start: 37836, Stop: 38348, Start Num: 38
Candidate Starts for RoyalG_33:
(Start: 38 @37836 has 21 MA's), (Start: 60 @37890 has 46 MA's), (Start: 66 @37902 has 3 MA's), (80, 37923), (104, 37992), (111, 38007), (136, 38091), (165, 38214), (180, 38271), (190, 38295),

Gene: Ruthiejr_34 Start: 28349, Stop: 28747, Start Num: 67
Candidate Starts for Ruthiejr_34:
(Start: 67 @28349 has 23 MA's), (80, 28370), (87, 28379), (115, 28466), (119, 28481), (137, 28541), (139, 28547), (143, 28565), (149, 28589), (154, 28610), (158, 28622), (160, 28631), (162, 28646), (185, 28727),

Gene: SCentae_172 Start: 126727, Stop: 127146, Start Num: 61
Candidate Starts for SCentae_172:
(Start: 61 @126727 has 4 MA's), (107, 126841), (112, 126850), (149, 126982), (155, 127006), (166, 127057), (169, 127069), (173, 127081),

Gene: Sam12_32 Start: 37354, Stop: 37875, Start Num: 38
Candidate Starts for Sam12_32:
(Start: 38 @37354 has 21 MA's), (Start: 60 @37408 has 46 MA's), (Start: 66 @37420 has 3 MA's), (80, 37441), (111, 37525), (136, 37609), (149, 37660), (152, 37672), (165, 37732), (180, 37789), (192, 37822), (196, 37837),

Gene: SamScheppers_33 Start: 28862, Stop: 29260, Start Num: 67
Candidate Starts for SamScheppers_33:
(28, 28742), (Start: 67 @28862 has 23 MA's), (80, 28883), (87, 28892), (115, 28979), (119, 28994), (137, 29054), (139, 29060), (143, 29078), (149, 29102), (154, 29123), (158, 29135), (160, 29144), (162, 29159), (185, 29240),

Gene: SamuelLPlaqson_32 Start: 27266, Stop: 27706, Start Num: 50
Candidate Starts for SamuelLPlaqson_32:
(Start: 41 @27251 has 16 MA's), (Start: 50 @27266 has 135 MA's), (Start: 66 @27296 has 3 MA's), (70, 27302), (73, 27308), (80, 27320), (99, 27368), (103, 27386), (114, 27413), (129, 27467), (133, 27476), (147, 27530), (165, 27608), (174, 27641), (195, 27698), (197, 27701),

Gene: Sbash_27 Start: 25423, Stop: 25824, Start Num: 79
Candidate Starts for Sbash_27:
(Start: 79 @25423 has 18 MA's), (111, 25498), (112, 25501), (130, 25564), (149, 25633), (158, 25666), (160, 25675), (174, 25735), (177, 25750), (189, 25780), (200, 25816),

Gene: Scarlett_31 Start: 26447, Stop: 26902, Start Num: 50
Candidate Starts for Scarlett_31:
(Start: 50 @26447 has 135 MA's), (Start: 66 @26477 has 3 MA's), (68, 26480), (82, 26504), (103, 26567), (114, 26594), (115, 26597), (129, 26648), (147, 26711), (165, 26789), (168, 26801), (169, 26807),

Gene: Sejanus_13 Start: 12918, Stop: 13313, Start Num: 52
Candidate Starts for Sejanus_13:
(Start: 52 @12918 has 55 MA's), (Start: 71 @12951 has 7 MA's), (105, 13029), (136, 13125), (149, 13176), (151, 13182), (152, 13188), (154, 13197), (163, 13239),

Gene: Settecandela_222 Start: 141538, Stop: 141927, Start Num: 79
Candidate Starts for Settecandela_222:
(Start: 79 @141538 has 18 MA's), (112, 141619), (115, 141628), (116, 141631), (133, 141688), (142, 141721), (154, 141772), (155, 141775), (158, 141784), (161, 141802), (163, 141814), (174, 141853),

Gene: SgtBeansprout_28 Start: 26747, Stop: 27205, Start Num: 50
Candidate Starts for SgtBeansprout_28:

(21, 26528), (Start: 50 @26747 has 135 MA's), (Start: 66 @26777 has 3 MA's), (70, 26783), (80, 26801), (102, 26861), (111, 26885), (114, 26894), (115, 26897), (118, 26909), (129, 26948), (133, 26957), (134, 26960), (147, 27011), (152, 27032), (156, 27047), (165, 27089), (168, 27101),

Gene: Shadow1_31 Start: 26476, Stop: 26940, Start Num: 50
Candidate Starts for Shadow1_31:
(Start: 50 @26476 has 135 MA's), (62, 26497), (Start: 66 @26506 has 3 MA's), (68, 26509), (85, 26536), (102, 26590), (103, 26596), (114, 26623), (129, 26677), (147, 26740), (152, 26761), (165, 26818), (168, 26830),

Gene: Shaobing_32 Start: 26622, Stop: 27086, Start Num: 50
Candidate Starts for Shaobing_32:
(24, 26496), (25, 26523), (Start: 50 @26622 has 135 MA's), (Start: 66 @26652 has 3 MA's), (70, 26658), (73, 26664), (80, 26676), (99, 26724), (102, 26736), (114, 26769), (115, 26772), (129, 26823), (147, 26886), (152, 26907), (156, 26922), (162, 26952), (165, 26964), (168, 26976),

Gene: Shatter_14 Start: 12949, Stop: 13329, Start Num: 79
Candidate Starts for Shatter_14:
(Start: 79 @12949 has 18 MA's), (109, 13024), (118, 13051), (139, 13120), (156, 13189), (160, 13204), (175, 13267), (178, 13282),

Gene: ShedlockHolmes_33 Start: 28259, Stop: 28705, Start Num: 50
Candidate Starts for ShedlockHolmes_33:
(39, 28226), (Start: 50 @28259 has 135 MA's), (Start: 66 @28289 has 3 MA's), (103, 28379), (114, 28406), (115, 28409), (123, 28445), (129, 28460), (147, 28523), (154, 28553), (165, 28601),

Gene: Shelley_33 Start: 39168, Stop: 39605, Start Num: 60
Candidate Starts for Shelley_33:
(Start: 38 @39114 has 21 MA's), (Start: 60 @39168 has 46 MA's), (Start: 66 @39180 has 3 MA's), (80, 39201), (102, 39261), (109, 39282), (150, 39423), (165, 39492),

Gene: Shenandoah_17 Start: 14545, Stop: 14979, Start Num: 52
Candidate Starts for Shenandoah_17:
(27, 14440), (Start: 52 @14545 has 55 MA's), (84, 14599), (109, 14665), (163, 14866), (164, 14869),

Gene: ShiaSurprise_32 Start: 27377, Stop: 27817, Start Num: 50
Candidate Starts for ShiaSurprise_32:
(31, 27314), (Start: 50 @27377 has 135 MA's), (Start: 66 @27407 has 3 MA's), (70, 27413), (73, 27419), (80, 27431), (99, 27479), (103, 27497), (114, 27524), (129, 27578), (133, 27587), (146, 27638), (147, 27641), (152, 27662), (165, 27719), (174, 27752), (195, 27809),

Gene: SirPhilip_31 Start: 26116, Stop: 26580, Start Num: 49
Candidate Starts for SirPhilip_31:
(Start: 49 @26116 has 12 MA's), (Start: 66 @26146 has 3 MA's), (68, 26149), (82, 26173), (102, 26230), (103, 26236), (114, 26263), (115, 26266), (129, 26317), (147, 26380), (165, 26458), (168, 26470), (169, 26476), (199, 26569),

Gene: Sisko_14 Start: 13277, Stop: 13672, Start Num: 74
Candidate Starts for Sisko_14:
(Start: 74 @13277 has 10 MA's), (Start: 79 @13289 has 18 MA's), (98, 13319), (118, 13391), (139, 13460), (154, 13523), (156, 13529), (175, 13607), (178, 13622), (180, 13628),

Gene: Skog_5 Start: 3101, Stop: 3520, Start Num: 61

Candidate Starts for Skog_5:
(Start: 61 @3101 has 4 MA's), (107, 3215), (112, 3224), (149, 3356), (155, 3380), (166, 3431), (169, 3443), (173, 3455),

Gene: Slarp_33 Start: 28471, Stop: 28869, Start Num: 67
Candidate Starts for Slarp_33:
(Start: 67 @28471 has 23 MA's), (80, 28492), (87, 28501), (115, 28588), (119, 28603), (137, 28663), (139, 28669), (143, 28687), (149, 28711), (154, 28732), (158, 28744), (160, 28753), (162, 28768), (167, 28789), (185, 28849),

Gene: Slimphazie_32 Start: 27344, Stop: 27784, Start Num: 50
Candidate Starts for Slimphazie_32:
(17, 27107), (31, 27281), (Start: 50 @27344 has 135 MA's), (Start: 66 @27374 has 3 MA's), (70, 27380), (73, 27386), (80, 27398), (99, 27446), (103, 27464), (114, 27491), (129, 27545), (146, 27605), (147, 27608), (152, 27629), (165, 27686), (174, 27719), (195, 27776),

Gene: Smoothie_53 Start: 33369, Stop: 33776, Start Num: 90
Candidate Starts for Smoothie_53:
(Start: 90 @33369 has 16 MA's), (107, 33432), (109, 33435), (141, 33537), (165, 33648), (176, 33690), (201, 33765),

Gene: SoSeph_31 Start: 28061, Stop: 28513, Start Num: 41
Candidate Starts for SoSeph_31:
(Start: 41 @28061 has 16 MA's), (Start: 66 @28106 has 3 MA's), (73, 28118), (80, 28130), (99, 28178), (102, 28190), (103, 28196), (114, 28223), (115, 28226), (129, 28277), (133, 28286), (137, 28301), (147, 28340), (152, 28361), (164, 28415), (165, 28418), (174, 28451),

Gene: Sombrero_32 Start: 37356, Stop: 37877, Start Num: 38
Candidate Starts for Sombrero_32:
(Start: 38 @37356 has 21 MA's), (Start: 60 @37410 has 46 MA's), (Start: 66 @37422 has 3 MA's), (80, 37443), (104, 37512), (111, 37527), (136, 37611), (149, 37662), (152, 37674), (165, 37734), (180, 37791), (192, 37824), (196, 37839),

Gene: Sour_17 Start: 14711, Stop: 15097, Start Num: 71
Candidate Starts for Sour_17:
(Start: 71 @14711 has 7 MA's), (Start: 74 @14714 has 10 MA's), (105, 14792), (118, 14828), (148, 14936), (154, 14960), (156, 14966), (161, 14990), (167, 15017), (178, 15059), (188, 15080),

Gene: Sparky_28 Start: 26721, Stop: 27113, Start Num: 86
Candidate Starts for Sparky_28:
(Start: 86 @26721 has 2 MA's), (111, 26787), (112, 26790), (130, 26853), (149, 26922), (154, 26943), (158, 26955), (160, 26964), (174, 27024), (177, 27039), (189, 27069), (200, 27105),

Gene: SpeedDemon_350 Start: 32425, Stop: 32838, Start Num: 79
Candidate Starts for SpeedDemon_350:
(Start: 79 @32425 has 18 MA's), (115, 32515), (120, 32533), (142, 32617), (168, 32728),

Gene: Spock_32 Start: 27377, Stop: 27817, Start Num: 50
Candidate Starts for Spock_32:
(31, 27314), (Start: 50 @27377 has 135 MA's), (Start: 66 @27407 has 3 MA's), (70, 27413), (73, 27419), (80, 27431), (99, 27479), (103, 27497), (114, 27524), (129, 27578), (133, 27587), (147, 27641), (152, 27662), (165, 27719), (174, 27752), (195, 27809),

Gene: Squibbles_32 Start: 38217, Stop: 38738, Start Num: 38
Candidate Starts for Squibbles_32:
(Start: 38 @38217 has 21 MA's), (Start: 60 @38271 has 46 MA's), (Start: 66 @38283 has 3 MA's), (80, 38304), (111, 38388), (136, 38472), (149, 38523), (152, 38535), (165, 38595), (180, 38652), (192, 38685), (196, 38700),

Gene: SteveFrench_32 Start: 38130, Stop: 38588, Start Num: 60
Candidate Starts for SteveFrench_32:
(Start: 38 @38076 has 21 MA's), (Start: 60 @38130 has 46 MA's), (Start: 66 @38142 has 3 MA's), (80, 38163), (104, 38232), (111, 38247), (136, 38331), (165, 38454), (180, 38511), (190, 38535),

Gene: Sticker17_33 Start: 39683, Stop: 40120, Start Num: 60
Candidate Starts for Sticker17_33:
(Start: 38 @39629 has 21 MA's), (Start: 60 @39683 has 46 MA's), (Start: 66 @39695 has 3 MA's), (80, 39716), (102, 39776), (109, 39797), (150, 39938), (165, 40007),

Gene: Stinson_33 Start: 27579, Stop: 28019, Start Num: 50
Candidate Starts for Stinson_33:
(17, 27342), (Start: 50 @27579 has 135 MA's), (Start: 66 @27609 has 3 MA's), (70, 27615), (73, 27621), (80, 27633), (99, 27681), (103, 27699), (114, 27726), (123, 27765), (129, 27780), (133, 27789), (147, 27843), (165, 27921), (174, 27954), (195, 28011),

Gene: Strobilo_30 Start: 26001, Stop: 26387, Start Num: 89
Candidate Starts for Strobilo_30:
(Start: 89 @26001 has 11 MA's), (Start: 91 @26004 has 5 MA's), (95, 26013), (112, 26076), (114, 26082), (117, 26091), (118, 26097), (122, 26118), (126, 26127), (129, 26136), (133, 26145), (149, 26208), (154, 26229), (159, 26247), (160, 26250),

Gene: Stuck_27 Start: 25768, Stop: 26169, Start Num: 79
Candidate Starts for Stuck_27:
(Start: 79 @25768 has 18 MA's), (111, 25843), (112, 25846), (130, 25909), (149, 25978), (158, 26011), (160, 26020), (174, 26080), (177, 26095), (189, 26125), (200, 26161),

Gene: Sulley_32 Start: 27310, Stop: 27750, Start Num: 50
Candidate Starts for Sulley_32:
(31, 27247), (Start: 50 @27310 has 135 MA's), (Start: 66 @27340 has 3 MA's), (70, 27346), (73, 27352), (80, 27364), (99, 27412), (103, 27430), (114, 27457), (129, 27511), (133, 27520), (147, 27574), (152, 27595), (165, 27652), (174, 27685), (195, 27742),

Gene: Sunflower1121_31 Start: 26488, Stop: 26952, Start Num: 50
Candidate Starts for Sunflower1121_31:
(Start: 50 @26488 has 135 MA's), (62, 26509), (Start: 66 @26518 has 3 MA's), (68, 26521), (85, 26548), (102, 26602), (103, 26608), (114, 26635), (129, 26689), (147, 26752), (152, 26773), (165, 26830), (168, 26842), (187, 26905),

Gene: SwainyDoc_17 Start: 14564, Stop: 14998, Start Num: 52
Candidate Starts for SwainyDoc_17:
(27, 14459), (Start: 52 @14564 has 55 MA's), (84, 14618), (109, 14684), (163, 14885), (164, 14888),

Gene: SynergyX_17 Start: 14567, Stop: 15001, Start Num: 52
Candidate Starts for SynergyX_17:
(27, 14462), (Start: 52 @14567 has 55 MA's), (84, 14621), (109, 14687), (163, 14888), (164, 14891),

Gene: Syra333_32 Start: 26498, Stop: 26962, Start Num: 50
Candidate Starts for Syra333_32:
(Start: 50 @26498 has 135 MA's), (62, 26519), (Start: 66 @26528 has 3 MA's), (68, 26531), (85, 26558), (102, 26612), (103, 26618), (114, 26645), (129, 26699), (147, 26762), (152, 26783), (165, 26840), (168, 26852),

Gene: TBond007_32 Start: 27736, Stop: 28182, Start Num: 50
Candidate Starts for TBond007_32:
(39, 27703), (Start: 50 @27736 has 135 MA's), (Start: 66 @27766 has 3 MA's), (103, 27856), (114, 27883), (115, 27886), (123, 27922), (129, 27937), (147, 28000), (154, 28030), (162, 28066), (165, 28078),

Gene: TClif_33 Start: 27061, Stop: 27525, Start Num: 48
Candidate Starts for TClif_33:
(Start: 48 @27061 has 1 MA's), (Start: 66 @27091 has 3 MA's), (68, 27094), (73, 27103), (80, 27115), (85, 27121), (103, 27181), (114, 27208), (115, 27211), (129, 27262), (147, 27325), (165, 27403),

Gene: TM4_31 Start: 26207, Stop: 26593, Start Num: 89
Candidate Starts for TM4_31:
(Start: 89 @26207 has 11 MA's), (Start: 91 @26210 has 5 MA's), (95, 26219), (99, 26243), (112, 26282), (114, 26288), (117, 26297), (118, 26303), (122, 26324), (126, 26333), (129, 26342), (133, 26351), (149, 26414), (154, 26435), (159, 26453), (160, 26456),

Gene: TPA4_33 Start: 29799, Stop: 30185, Start Num: 92
Candidate Starts for TPA4_33:
(22, 29538), (40, 29694), (88, 29793), (92, 29799), (136, 29949), (140, 29961), (143, 29976), (149, 30006), (165, 30075), (167, 30084), (177, 30123),

Gene: Tachez_32 Start: 27306, Stop: 27746, Start Num: 50
Candidate Starts for Tachez_32:
(17, 27069), (31, 27243), (Start: 50 @27306 has 135 MA's), (Start: 66 @27336 has 3 MA's), (70, 27342), (73, 27348), (80, 27360), (99, 27408), (103, 27426), (114, 27453), (129, 27507), (146, 27567), (147, 27570), (152, 27591), (165, 27648), (174, 27681), (195, 27738),

Gene: TaiwanKao_33 Start: 27310, Stop: 27750, Start Num: 50
Candidate Starts for TaiwanKao_33:
(17, 27073), (31, 27247), (Start: 50 @27310 has 135 MA's), (Start: 66 @27340 has 3 MA's), (70, 27346), (73, 27352), (80, 27364), (99, 27412), (103, 27430), (114, 27457), (129, 27511), (133, 27520), (147, 27574), (165, 27652), (174, 27685), (195, 27742),

Gene: Taquito_33 Start: 28909, Stop: 29307, Start Num: 67
Candidate Starts for Taquito_33:
(28, 28789), (Start: 67 @28909 has 23 MA's), (80, 28930), (87, 28939), (115, 29026), (119, 29041), (137, 29101), (139, 29107), (143, 29125), (149, 29149), (154, 29170), (158, 29182), (160, 29191), (162, 29206), (167, 29227), (185, 29287),

Gene: Teal_33 Start: 40151, Stop: 40588, Start Num: 60
Candidate Starts for Teal_33:
(Start: 38 @40097 has 21 MA's), (Start: 60 @40151 has 46 MA's), (Start: 66 @40163 has 3 MA's), (80, 40184), (102, 40244), (109, 40265), (150, 40406), (165, 40475),

Gene: Teatealatte_31 Start: 39000, Stop: 39434, Start Num: 64
Candidate Starts for Teatealatte_31:

(Start: 64 @39000 has 11 MA's), (80, 39021), (94, 39039), (101, 39072), (146, 39222), (150, 39237), (154, 39255), (158, 39267), (165, 39303), (166, 39309), (190, 39384),

Gene: Teech_31 Start: 38801, Stop: 39235, Start Num: 64
Candidate Starts for Teech_31:
(Start: 64 @38801 has 11 MA's), (80, 38822), (94, 38840), (101, 38873), (146, 39023), (150, 39038), (154, 39056), (158, 39068), (165, 39104), (166, 39110), (190, 39185),

Gene: Teejan_28 Start: 26747, Stop: 27205, Start Num: 50
Candidate Starts for Teejan_28:
(21, 26528), (Start: 50 @26747 has 135 MA's), (Start: 66 @26777 has 3 MA's), (70, 26783), (80, 26801), (102, 26861), (111, 26885), (114, 26894), (115, 26897), (118, 26909), (129, 26948), (133, 26957), (134, 26960), (147, 27011), (152, 27032), (156, 27047), (165, 27089), (168, 27101),

Gene: Thumb_35 Start: 32380, Stop: 32841, Start Num: 58
Candidate Starts for Thumb_35:
(Start: 58 @32380 has 10 MA's), (Start: 64 @32392 has 11 MA's), (78, 32416), (93, 32443), (106, 32500), (107, 32503), (111, 32509), (113, 32515), (116, 32524), (118, 32533), (121, 32551), (136, 32596), (137, 32599), (146, 32635), (155, 32671), (160, 32689), (171, 32740), (181, 32776),

Gene: Thyatira_31 Start: 27915, Stop: 28367, Start Num: 41
Candidate Starts for Thyatira_31:
(Start: 41 @27915 has 16 MA's), (Start: 66 @27960 has 3 MA's), (73, 27972), (80, 27984), (99, 28032), (102, 28044), (103, 28050), (114, 28077), (129, 28131), (133, 28140), (137, 28155), (147, 28194), (152, 28215), (164, 28269), (165, 28272), (174, 28305),

Gene: Tierra_32 Start: 27324, Stop: 27788, Start Num: 50
Candidate Starts for Tierra_32:
(Start: 50 @27324 has 135 MA's), (62, 27345), (Start: 66 @27354 has 3 MA's), (68, 27357), (85, 27384), (102, 27438), (103, 27444), (114, 27471), (129, 27525), (150, 27600), (165, 27666), (187, 27741),

Gene: Tigress9_32 Start: 26494, Stop: 26958, Start Num: 50
Candidate Starts for Tigress9_32:
(Start: 50 @26494 has 135 MA's), (62, 26515), (Start: 66 @26524 has 3 MA's), (68, 26527), (102, 26608), (103, 26614), (114, 26641), (129, 26695), (147, 26758), (152, 26779), (165, 26836), (168, 26848),

Gene: TingHuaYa_32 Start: 26466, Stop: 26918, Start Num: 50
Candidate Starts for TingHuaYa_32:
(13, 26208), (24, 26343), (31, 26403), (Start: 50 @26466 has 135 MA's), (Start: 66 @26496 has 3 MA's), (70, 26502), (73, 26508), (80, 26520), (99, 26568), (102, 26580), (114, 26613), (115, 26616), (129, 26667), (147, 26730), (149, 26739), (152, 26751), (165, 26808),

Gene: TiniBug_32 Start: 27262, Stop: 27702, Start Num: 50
Candidate Starts for TiniBug_32:
(6, 26935), (31, 27199), (Start: 50 @27262 has 135 MA's), (Start: 66 @27292 has 3 MA's), (70, 27298), (73, 27304), (80, 27316), (99, 27364), (103, 27382), (114, 27409), (129, 27463), (133, 27472), (147, 27526), (165, 27604), (174, 27637), (195, 27694),

Gene: TinyTerror_17 Start: 14566, Stop: 15000, Start Num: 52
Candidate Starts for TinyTerror_17:
(27, 14461), (Start: 52 @14566 has 55 MA's), (84, 14620), (109, 14686), (163, 14887), (164, 14890),

Gene: Tiri_32 Start: 27349, Stop: 27798, Start Num: 50
Candidate Starts for Tiri_32:
(17, 27112), (31, 27286), (Start: 50 @27349 has 135 MA's), (Start: 66 @27379 has 3 MA's), (70, 27385), (73, 27391), (80, 27403), (99, 27451), (103, 27469), (114, 27496), (129, 27550), (133, 27559), (147, 27613), (152, 27634), (165, 27691), (195, 27790),

Gene: Toniann_51 Start: 32856, Stop: 33263, Start Num: 90
Candidate Starts for Toniann_51:
(Start: 90 @32856 has 16 MA's), (107, 32919), (109, 32922), (141, 33024), (165, 33135), (176, 33177), (201, 33252),

Gene: Topper_32 Start: 27377, Stop: 27817, Start Num: 50
Candidate Starts for Topper_32:
(31, 27314), (Start: 50 @27377 has 135 MA's), (Start: 66 @27407 has 3 MA's), (70, 27413), (73, 27419), (80, 27431), (99, 27479), (103, 27497), (114, 27524), (129, 27578), (133, 27587), (147, 27641), (152, 27662), (165, 27719), (174, 27752), (195, 27809),

Gene: Torres_28 Start: 26747, Stop: 27205, Start Num: 50
Candidate Starts for Torres_28:
(21, 26528), (Start: 50 @26747 has 135 MA's), (Start: 66 @26777 has 3 MA's), (70, 26783), (80, 26801), (102, 26861), (111, 26885), (114, 26894), (115, 26897), (118, 26909), (129, 26948), (133, 26957), (134, 26960), (147, 27011), (152, 27032), (156, 27047), (165, 27089), (168, 27101),

Gene: Towmatter_31 Start: 28924, Stop: 29334, Start Num: 79
Candidate Starts for Towmatter_31:
(Start: 79 @28924 has 18 MA's), (121, 29050), (160, 29185), (187, 29284),

Gene: TraderJ_16 Start: 14363, Stop: 14764, Start Num: 59
Candidate Starts for TraderJ_16:
(Start: 59 @14363 has 8 MA's), (Start: 86 @14411 has 2 MA's), (114, 14489), (145, 14600), (152, 14627), (154, 14636), (156, 14642), (167, 14693), (172, 14711), (178, 14735), (186, 14753), (187, 14756),

Gene: Tredge_31 Start: 39000, Stop: 39434, Start Num: 64
Candidate Starts for Tredge_31:
(Start: 64 @39000 has 11 MA's), (80, 39021), (94, 39039), (101, 39072), (146, 39222), (150, 39237), (154, 39255), (158, 39267), (165, 39303), (166, 39309), (190, 39384),

Gene: TreyKay_32 Start: 27310, Stop: 27750, Start Num: 50
Candidate Starts for TreyKay_32:
(17, 27073), (31, 27247), (Start: 50 @27310 has 135 MA's), (Start: 66 @27340 has 3 MA's), (70, 27346), (73, 27352), (80, 27364), (99, 27412), (103, 27430), (114, 27457), (129, 27511), (133, 27520), (147, 27574), (165, 27652), (174, 27685), (195, 27742),

Gene: TribleTrouble_31 Start: 27787, Stop: 28239, Start Num: 50
Candidate Starts for TribleTrouble_31:
(39, 27754), (Start: 50 @27787 has 135 MA's), (Start: 66 @27817 has 3 MA's), (103, 27907), (114, 27934), (115, 27937), (123, 27973), (129, 27988), (147, 28051), (152, 28072), (165, 28129), (174, 28162),

Gene: Trice_28 Start: 26747, Stop: 27205, Start Num: 50
Candidate Starts for Trice_28:

(21, 26528), (Start: 50 @26747 has 135 MA's), (Start: 66 @26777 has 3 MA's), (70, 26783), (80, 26801), (102, 26861), (111, 26885), (114, 26894), (115, 26897), (118, 26909), (129, 26948), (133, 26957), (134, 26960), (147, 27011), (152, 27032), (156, 27047), (165, 27089), (168, 27101),

Gene: TruffulaTree_32 Start: 27340, Stop: 27780, Start Num: 50
Candidate Starts for TruffulaTree_32:
(31, 27277), (Start: 50 @27340 has 135 MA's), (Start: 66 @27370 has 3 MA's), (70, 27376), (73, 27382), (80, 27394), (99, 27442), (103, 27460), (114, 27487), (129, 27541), (146, 27601), (147, 27604), (152, 27625), (165, 27682), (174, 27715), (195, 27772),

Gene: Twitch_32 Start: 27377, Stop: 27817, Start Num: 50
Candidate Starts for Twitch_32:
(31, 27314), (Start: 50 @27377 has 135 MA's), (Start: 66 @27407 has 3 MA's), (70, 27413), (73, 27419), (80, 27431), (99, 27479), (103, 27497), (114, 27524), (129, 27578), (133, 27587), (147, 27641), (152, 27662), (165, 27719), (174, 27752), (195, 27809),

Gene: Tydolla_17 Start: 15304, Stop: 15738, Start Num: 52
Candidate Starts for Tydolla_17:
(27, 15199), (Start: 52 @15304 has 55 MA's), (84, 15358), (109, 15424), (163, 15625), (164, 15628),

Gene: Typha_33 Start: 30335, Stop: 30691, Start Num: 91
Candidate Starts for Typha_33:
(30, 30185), (Start: 91 @30335 has 5 MA's), (99, 30368), (115, 30416), (118, 30428), (123, 30452), (129, 30467), (136, 30488), (144, 30518), (149, 30539), (150, 30542), (165, 30608), (167, 30617), (170, 30629),

Gene: Ubuntu_34 Start: 29596, Stop: 30006, Start Num: 57
Candidate Starts for Ubuntu_34:
(Start: 57 @29596 has 26 MA's), (102, 29698), (121, 29764), (125, 29776), (129, 29788), (136, 29809), (159, 29896), (182, 29989),

Gene: Unicorn_32 Start: 26653, Stop: 27117, Start Num: 50
Candidate Starts for Unicorn_32:
(Start: 50 @26653 has 135 MA's), (62, 26674), (Start: 66 @26683 has 3 MA's), (68, 26686), (80, 26707), (85, 26713), (102, 26767), (103, 26773), (114, 26800), (147, 26917), (165, 26995), (168, 27007), (187, 27070),

Gene: Urkel_32 Start: 27266, Stop: 27706, Start Num: 50
Candidate Starts for Urkel_32:
(Start: 41 @27251 has 16 MA's), (Start: 50 @27266 has 135 MA's), (Start: 66 @27296 has 3 MA's), (70, 27302), (73, 27308), (80, 27320), (99, 27368), (103, 27386), (114, 27413), (129, 27467), (133, 27476), (147, 27530), (165, 27608), (174, 27641), (195, 27698), (197, 27701),

Gene: Validus_32 Start: 26557, Stop: 27018, Start Num: 50
Candidate Starts for Validus_32:
(Start: 50 @26557 has 135 MA's), (54, 26566), (Start: 66 @26587 has 3 MA's), (68, 26590), (70, 26593), (73, 26599), (80, 26611), (99, 26659), (102, 26671), (114, 26704), (115, 26707), (129, 26758), (147, 26821), (152, 26842), (156, 26857), (162, 26887), (165, 26899), (168, 26911),

Gene: VanLee_29 Start: 25243, Stop: 25584, Start Num: 79
Candidate Starts for VanLee_29:
(Start: 79 @25243 has 18 MA's), (104, 25297), (124, 25366), (149, 25450), (166, 25525),

Gene: Veliki_32 Start: 27380, Stop: 27820, Start Num: 50
Candidate Starts for Veliki_32:
(17, 27143), (31, 27317), (Start: 50 @27380 has 135 MA's), (Start: 66 @27410 has 3 MA's), (70, 27416), (73, 27422), (80, 27434), (99, 27482), (103, 27500), (114, 27527), (129, 27581), (146, 27641), (147, 27644), (152, 27665), (165, 27722), (174, 27755), (195, 27812),

Gene: Vitaenoii_33 Start: 40235, Stop: 40666, Start Num: 64
Candidate Starts for Vitaenoii_33:
(Start: 64 @40235 has 11 MA's), (Start: 67 @40241 has 23 MA's), (101, 40310), (103, 40319), (107, 40331), (125, 40391), (140, 40433), (146, 40460), (150, 40475), (154, 40493), (165, 40541), (168, 40553), (180, 40598),

Gene: ViviJ_30 Start: 27749, Stop: 28198, Start Num: 43
Candidate Starts for ViviJ_30:
(1, 27233), (2, 27347), (Start: 41 @27746 has 16 MA's), (Start: 43 @27749 has 6 MA's), (Start: 66 @27791 has 3 MA's), (73, 27803), (80, 27815), (99, 27863), (102, 27875), (103, 27881), (111, 27899), (114, 27908), (129, 27962), (133, 27971), (137, 27986), (147, 28025), (149, 28034), (152, 28046), (162, 28091), (164, 28100), (165, 28103), (170, 28124), (174, 28136),

Gene: Waterfoul_31 Start: 27939, Stop: 28391, Start Num: 41
Candidate Starts for Waterfoul_31:
(Start: 41 @27939 has 16 MA's), (Start: 66 @27984 has 3 MA's), (73, 27996), (80, 28008), (99, 28056), (102, 28068), (103, 28074), (114, 28101), (129, 28155), (133, 28164), (137, 28179), (147, 28218), (152, 28239), (164, 28293), (165, 28296), (174, 28329),

Gene: Webster2_34 Start: 29596, Stop: 30006, Start Num: 57
Candidate Starts for Webster2_34:
(Start: 57 @29596 has 26 MA's), (102, 29698), (121, 29764), (125, 29776), (129, 29788), (136, 29809), (159, 29896), (182, 29989),

Gene: WilliamBoone_51 Start: 32208, Stop: 32615, Start Num: 90
Candidate Starts for WilliamBoone_51:
(Start: 90 @32208 has 16 MA's), (128, 32337), (129, 32340), (136, 32361), (141, 32376), (165, 32487), (176, 32529), (201, 32604),

Gene: Wintermute_33 Start: 28458, Stop: 28856, Start Num: 67
Candidate Starts for Wintermute_33:
(Start: 67 @28458 has 23 MA's), (80, 28479), (87, 28488), (115, 28575), (119, 28590), (137, 28650), (139, 28656), (143, 28674), (149, 28698), (154, 28719), (158, 28731), (160, 28740), (162, 28755), (167, 28776), (185, 28836),

Gene: Wishmaker_33 Start: 29596, Stop: 30006, Start Num: 57
Candidate Starts for Wishmaker_33:
(Start: 57 @29596 has 26 MA's), (102, 29698), (121, 29764), (125, 29776), (129, 29788), (136, 29809), (159, 29896), (182, 29989),

Gene: Woes_33 Start: 40202, Stop: 40639, Start Num: 60
Candidate Starts for Woes_33:
(Start: 38 @40148 has 21 MA's), (Start: 60 @40202 has 46 MA's), (Start: 66 @40214 has 3 MA's), (80, 40235), (102, 40295), (107, 40313), (109, 40316), (150, 40457), (165, 40526),

Gene: Wooper_16 Start: 14369, Stop: 14770, Start Num: 59
Candidate Starts for Wooper_16:

(Start: 59 @14369 has 8 MA's), (69, 14390), (Start: 86 @14417 has 2 MA's), (114, 14495), (145, 14606), (152, 14633), (154, 14642), (156, 14648), (167, 14699), (172, 14717), (178, 14741), (186, 14759), (187, 14762),

Gene: Worcestershire_32 Start: 37356, Stop: 37877, Start Num: 38
Candidate Starts for Worcestershire_32:
(Start: 38 @37356 has 21 MA's), (Start: 60 @37410 has 46 MA's), (Start: 66 @37422 has 3 MA's), (80, 37443), (111, 37527), (136, 37611), (149, 37662), (152, 37674), (165, 37734), (180, 37791), (192, 37824), (196, 37839),

Gene: Ximenita_33 Start: 26680, Stop: 27144, Start Num: 50
Candidate Starts for Ximenita_33:
(Start: 50 @26680 has 135 MA's), (62, 26701), (Start: 66 @26710 has 3 MA's), (68, 26713), (85, 26740), (102, 26794), (103, 26800), (114, 26827), (129, 26881), (147, 26944), (150, 26956), (165, 27022), (187, 27097),

Gene: Y10_33 Start: 28458, Stop: 28856, Start Num: 67
Candidate Starts for Y10_33:
(Start: 67 @28458 has 23 MA's), (80, 28479), (87, 28488), (115, 28575), (119, 28590), (123, 28611), (139, 28656), (143, 28674), (149, 28698), (154, 28719), (158, 28731), (160, 28740), (162, 28755), (167, 28776),

Gene: Y2_33 Start: 28458, Stop: 28856, Start Num: 67
Candidate Starts for Y2_33:
(Start: 67 @28458 has 23 MA's), (80, 28479), (87, 28488), (115, 28575), (119, 28590), (123, 28611), (139, 28656), (143, 28674), (149, 28698), (154, 28719), (158, 28731), (160, 28740), (162, 28755), (167, 28776),

Gene: Yago84_14 Start: 13286, Stop: 13681, Start Num: 74
Candidate Starts for Yago84_14:
(Start: 74 @13286 has 10 MA's), (Start: 79 @13298 has 18 MA's), (98, 13328), (118, 13400), (139, 13469), (154, 13532), (156, 13538), (175, 13616), (178, 13631), (180, 13637),

Gene: Yahalom_17 Start: 14578, Stop: 15012, Start Num: 52
Candidate Starts for Yahalom_17:
(27, 14473), (Start: 52 @14578 has 55 MA's), (84, 14632), (109, 14698), (163, 14899), (164, 14902),

Gene: YasnayaPolyana_33 Start: 28459, Stop: 28857, Start Num: 67
Candidate Starts for YasnayaPolyana_33:
(Start: 67 @28459 has 23 MA's), (80, 28480), (87, 28489), (115, 28576), (119, 28591), (139, 28657), (143, 28675), (149, 28699), (154, 28720), (158, 28732), (160, 28741), (162, 28756), (167, 28777),

Gene: Yeshua_16 Start: 14346, Stop: 14747, Start Num: 59
Candidate Starts for Yeshua_16:
(Start: 59 @14346 has 8 MA's), (Start: 86 @14394 has 2 MA's), (114, 14472), (145, 14583), (154, 14619), (156, 14625), (167, 14676), (172, 14694), (178, 14718), (187, 14739),

Gene: Yinz_17 Start: 14605, Stop: 15039, Start Num: 52
Candidate Starts for Yinz_17:
(27, 14500), (Start: 52 @14605 has 55 MA's), (84, 14659), (109, 14725), (163, 14926), (164, 14929),

Gene: YoureAdopted_31 Start: 27313, Stop: 27753, Start Num: 50
Candidate Starts for YoureAdopted_31:

(31, 27250), (Start: 50 @27313 has 135 MA's), (Start: 66 @27343 has 3 MA's), (70, 27349), (73, 27355), (80, 27367), (99, 27415), (103, 27433), (114, 27460), (129, 27514), (133, 27523), (147, 27577), (152, 27598), (165, 27655), (174, 27688), (195, 27745),

Gene: Yuna_33 Start: 27088, Stop: 27546, Start Num: 50
Candidate Starts for Yuna_33:
(Start: 50 @27088 has 135 MA's), (62, 27109), (Start: 66 @27118 has 3 MA's), (68, 27121), (80, 27142), (103, 27208), (114, 27235), (129, 27289), (136, 27310), (147, 27352), (149, 27361), (165, 27430),

Gene: Yunkel11_32 Start: 26598, Stop: 27047, Start Num: 50
Candidate Starts for Yunkel11_32:
(Start: 50 @26598 has 135 MA's), (Start: 66 @26628 has 3 MA's), (70, 26634), (73, 26640), (80, 26652), (99, 26700), (102, 26712), (114, 26745), (115, 26748), (129, 26799), (133, 26808), (147, 26862), (152, 26883), (156, 26898), (165, 26940), (197, 27039),

Gene: Yvonnetastic_49 Start: 34634, Stop: 35044, Start Num: 57
Candidate Starts for Yvonnetastic_49:
(Start: 57 @34634 has 26 MA's), (106, 34745), (118, 34778), (123, 34802), (167, 34967),

Gene: Zabiza_32 Start: 27344, Stop: 27784, Start Num: 50
Candidate Starts for Zabiza_32:
(17, 27107), (31, 27281), (Start: 50 @27344 has 135 MA's), (Start: 66 @27374 has 3 MA's), (70, 27380), (73, 27386), (80, 27398), (99, 27446), (103, 27464), (114, 27491), (129, 27545), (146, 27605), (147, 27608), (152, 27629), (165, 27686), (174, 27719), (195, 27776),

Gene: Zavala_32 Start: 27319, Stop: 27759, Start Num: 50
Candidate Starts for Zavala_32:
(17, 27082), (23, 27193), (31, 27256), (Start: 50 @27319 has 135 MA's), (Start: 66 @27349 has 3 MA's), (70, 27355), (73, 27361), (80, 27373), (99, 27421), (103, 27439), (114, 27466), (129, 27520), (133, 27529), (147, 27583), (152, 27604), (165, 27661), (174, 27694), (195, 27751),

Gene: ZoeJ_30 Start: 25982, Stop: 26392, Start Num: 89
Candidate Starts for ZoeJ_30:
(Start: 89 @25982 has 11 MA's), (Start: 91 @25985 has 5 MA's), (95, 25994), (112, 26057), (114, 26063), (117, 26072), (118, 26078), (122, 26099), (126, 26108), (128, 26114), (129, 26117), (133, 26126), (149, 26189), (154, 26210), (159, 26228), (160, 26231),