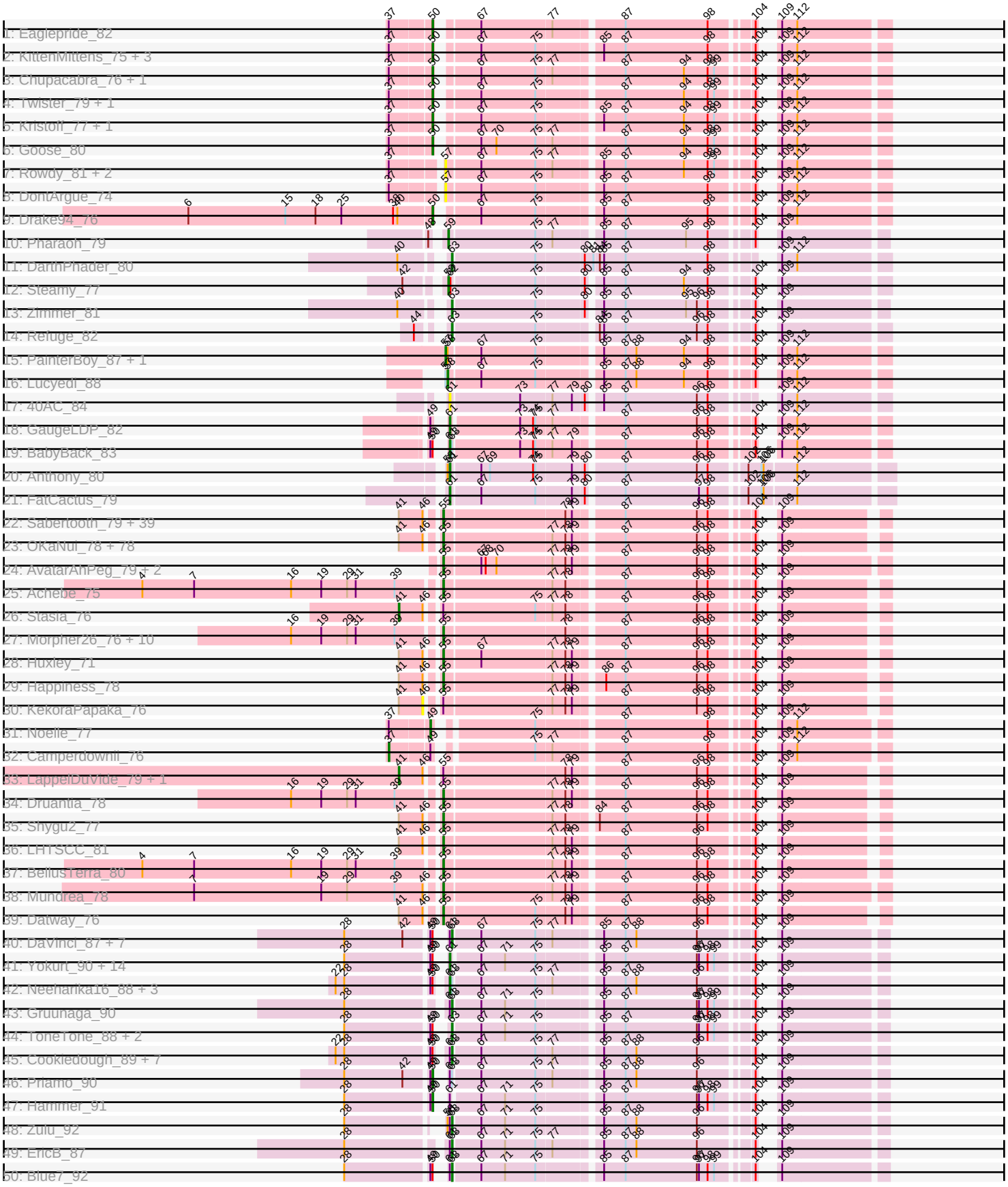
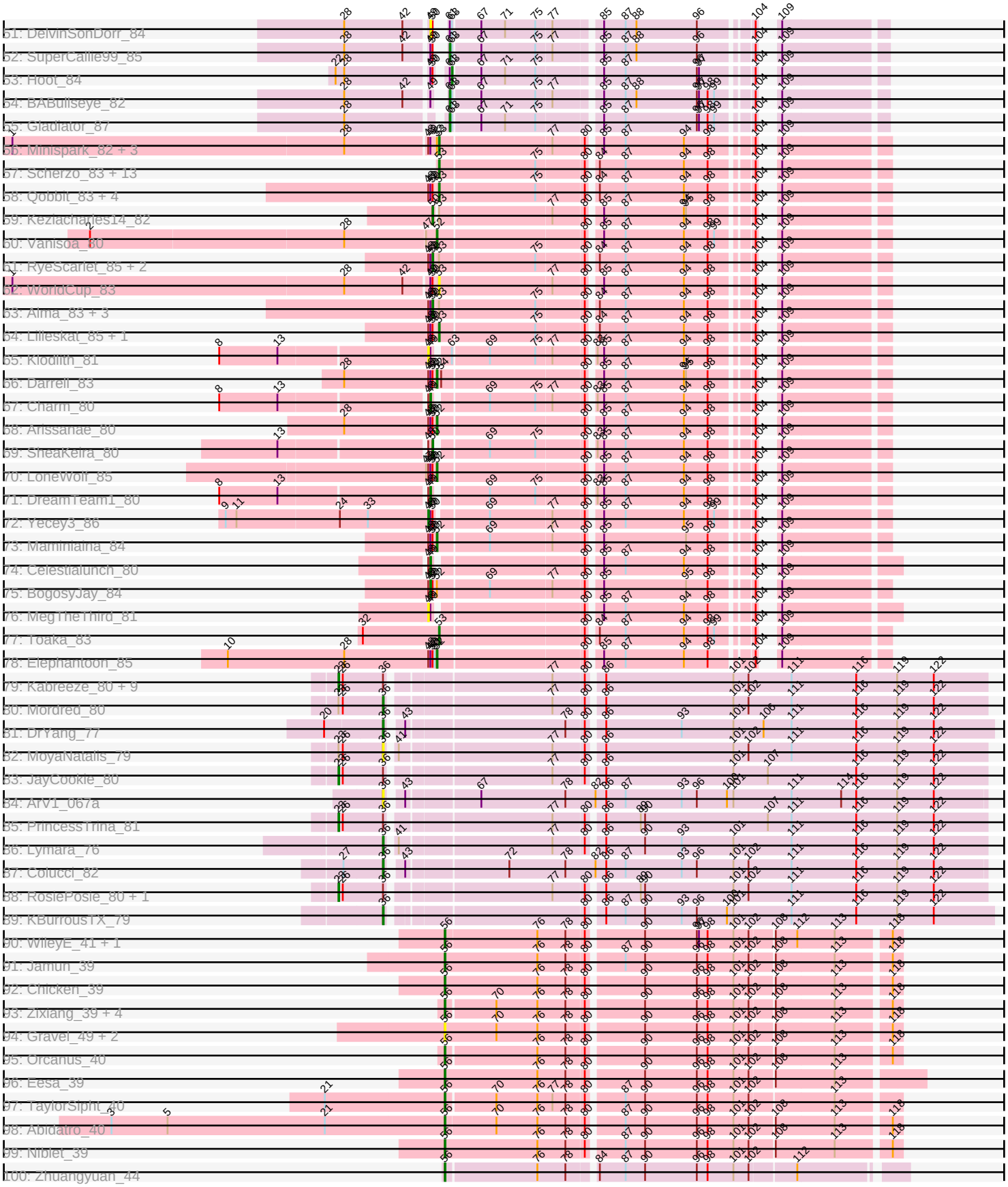
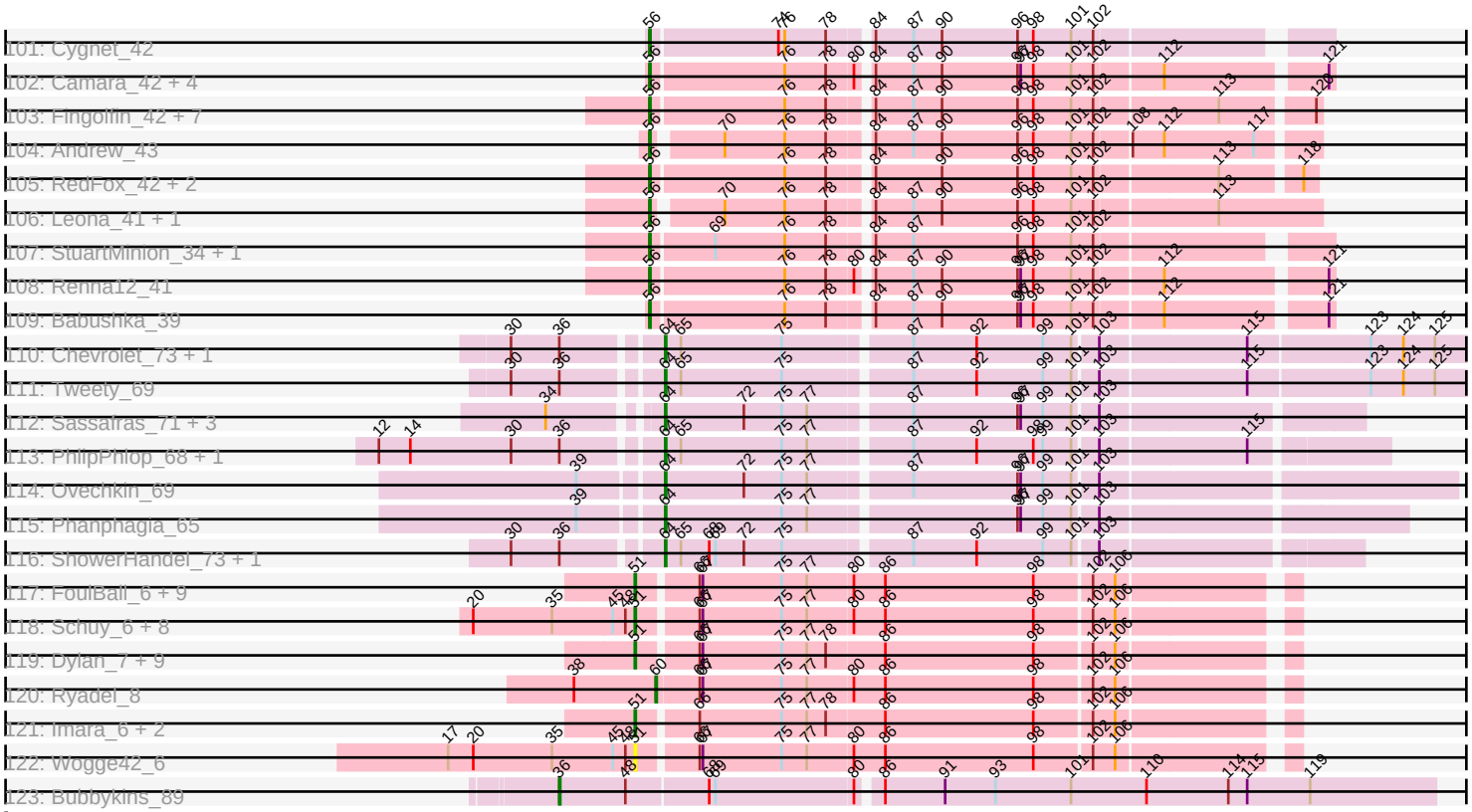
# Pham 347121


1: Eaglepride_82
2: KittenMittens_75 + 3
3: Chupacabra_76 + 1
4: Twister_79 + 1
5: Kristoh_77 + 1
6: Goose_80
7: Rowdy_81 + 2
8: DontArgue_74
9: Drake94_76
10: Pharaoh_79
11: DarthPhader_80
12: Steamy_77
13: Zimmer_81
14: Refuge_82
15: PainterBoy_87 + 1
16: Lucyedi_88
17: 40AC_84
18: GaugeLDP_82
19: BabyBack_83
20: Anthony_80
21: FatCactus_79
22: Sabertooth_79 + 39
23: OKaNui_78 + 78
24: AvatarAhPeg_79 + 2
25: Achebe_75
26: Stasia_76
27: Morpher26_76 + 10
28: Huxley_71
29: Happiness_78
30: KekoraPapaka_76
31: Noelle_77
32: Camperdownii_76
33: LappelDuVide_79 + 1
34: Druantia_78
35: Shygu2_77
36: LHTSCC_81
37: BellusTerra_80
38: Mundrea_78
39: Datway_76
40: DaVinci_87 + 7
41: Yokuri_90 + 14
42: Neehanka16_88 + 3
43: Gruunaga_90
44: ToneTone_88 + 2
45: Cookiedough_89 + 7
46: Priamo_90
47: Hammer_91
48: Zulu_92
49: EricB_87
50: Blue7_92

# Pham 347121


51: DelvinSonDorr_84
52: SuperCallie99_85
53: Hoot_84
54: BABullseye_82
55: Gladiator_87
56: Minispark_82 + 3
57: Scherzo_83 + 13
58: Qobbit_83 + 4
59: KezlachaRes14_82
60: Vanisoa_80
61: RyeScarlet_85 + 2
62: WorldCup_83
63: Alma_83 + 3
64: Lileskat_85 + 1
65: Klodilth_81
66: Darrell_83
67: Charm_80
68: Arissanae_80
69: Sheakeira_80
70: LoneWolf_85
71: DreamTeam1_80
72: Yecey3_86
73: Mamimiaina_84
74: Celestialunch_80
75: BogosyJay_84
76: MegTheThird_81
77: Toaka_83
78: Elephantoon_85
79: Kabreeze_80 + 9
80: Mordred_80
81: DrYang_77
82: MoyaNatalis_79
83: JayCookie_80
84: ArV1_067a
85: PrincessTrina_81
86: Lymara_76
87: Colucci_82
88: RosiePosie_80 + 1
89: KBurrousTX_79
90: WileyE_41 + 1
91: Jamun_39
92: Chicken_39
93: Zixiang_39 + 4
94: Gravel_49 + 2
95: Orcanus_40
96: Eesa_39
97: TaylorSipht_40
98: Abidatro_40
99: Niblet_39
100: Zhuangyuan_44

# Pham 347121


101: Cygnet_42
102: Camara_42 + 4
103: Fingolfin_42 + 7
104: Andrew_43
105: RedFox_42 + 2
106: Leona_41 + 1
107: StuartMinion_34 + 1
108: Renna12_41
109: Babushka_39
110: Chevrolet_73 + 1
111: Tweety_69
112: Sassafras_71 + 3
113: PhilipPhlop_68 + 1
114: Ovechkin_69
115: Phanphagia_65
116: ShowerHandel_73 + 1
117: FoulBall_6 + 9
118: Schuy_6 + 8
119: Dylan_7 + 9
120: Ryadel_8
121: Imara_6 + 2
122: Wogge42_6
123: Bubbykins_89

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 347121 Report

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

Pham number 347121 has 387 members, 32 are drafts.

Phages represented in each track:
• Track 1 : Eaglepride_82
• Track 2 : KittenMittens_75, Poompha_76, Severus_77, PeaceMeal1_76
• Track 3 : Chupacabra_76, OKCentral2016_78
• Track 4 : Twister_79, WalterMcMickey_78
• Track 5 : Kristoff_77, Rebeuca_80
• Track 6 : Goose_80
• Track 7 : Rowdy_81, Shapes_81, DustyMartin_81
• Track 8 : DontArgue_74
• Track 9 : Drake94_76
• Track 10 : Pharaoh_79
• Track 11 : DarthPhader_80
• Track 12 : Steamy_77
• Track 13 : Zimmer_81
• Track 14 : Refuge_82
• Track 15 : PainterBoy_87, EagleEye_89
• Track 16 : Lucyedi_88
• Track 17 : 40AC_84
• Track 18 : GaugeLDP_82
• Track 19 : BabyBack_83
• Track 20 : Anthony_80
• Track 21 : FatCactus_79
• Track 22 : Sabertooth_79, Rocksand_76, Millski_78, Cintron_79, Bartimeaus_79, Pumbaa_79, Lorenzo_79, YoSam321_79, Skadoosh_76, TinaFeyge_77, Albee_79, Junimo_75, TiroTheta9_78, Jaykayelowell_76, Polymorphads_80, Abdiel_78, Broseidon_79, Buckaroo_75, Thanksgivukkah_78, Baby16_79, Holli_78, Flux_80, Sparxx_80, Roosevelt_77, Nyxis_78, Florean_79, Pipcraft_75, Xena_75, Eros_79, MeeZee_78, Blackmoor_78, Northrop_76, Deano_76, Connomayer_79, HamSlice_75, Citius_79, Morrow_81, Lunsford_79, Medusa_78, Annyong_78
• Track 23 : OKaNui_78, Eurydice_80, Clarenza_78, JoongJeon_78, Mazhar510_79, Burger_77, Iracema64_79, LochMonster_80, Houdini22_78, Avle17_79, Melvin_81, Bruiser_78, Wander_79, Relief_78, SenorClean_80, SteMason_79, Ruin_79, RockieBear_79, Phelipe_80, Nemo27_78, Bombshell_79, Eris_78, Kampy_78, Obama12_80, Kingmustik0402_79, Romney_78, PeterPeter_79, Nebs_80, SheldonCooper_79, Cocoaberry_79, Alberto7_80, Cerulean_81, CentreCat_79, Kyee_79, Scamp_79, Lemur_79, Tinybot_78, LittleB_79, Chaph_79, Phighter1804_79, Kratark_78, DirtyDunning_78, Caelakin_77, Skipitt_78, Iceman_77, Phacado_79, ChampagnePapi_82, Spino_78, LittleGuy_79, Dhanush_79,

Taquarus_78, Commander_77, JetBlade_80, Rosa24_75, Sultana_79, Kremtemulon_76, Ohfah_80, Maverick_78, Eagle_78, Maxo_81, Koan_76, NorthStar_76, Eapen_79, Shaka_77, Peaches_77, KFPoly_78, Palestino_78, BangNhom_76, ICleared_78, Wilbur_79, TroyPia_80, Arturo_76, TygerBlood_79, Ulysses_78, Koreni_78, Gadost_79, NotAPhaseMom_78, Phontbonne_79, Funston_78
• Track 24 : AvatarAhPeg_79, Stink_79, Miramae_79
• Track 25 : Achebe_75
• Track 26 : Stasia_76
• Track 27 : Morpher26_76, Wile_75, AbbysRanger_76, Perplexer_76, Katalie136_76, Backyardigan_74, Badger_75, Wizard007_76, Bumblebee11_75, Cici_76, PetiteSangsue_76
• Track 28 : Huxley_71
• Track 29 : Happiness_78
• Track 30 : KekoraPapaka_76
• Track 31 : Noelle_77
• Track 32 : Camperdownii_76
• Track 33 : LappelDuVide_79, BubbleTrouble_78
• Track 34 : Druantia_78
• Track 35 : Shygu2_77
• Track 36 : LHTSCC_81
• Track 37 : BellusTerra_80
• Track 38 : Mundrea_78
• Track 39 : Datway_76
• Track 40 : DaVinci_87, McFly_89, Kazan_90, Chartreuse_88, Candra_90, Isiphiwo_85, VohminGhazi_89, SmellyB_89
• Track 41 : Yokurt_90, Indra_94, Rifter_91, Wiks_90, Koko_92, Artemis2UCLA_90, Temprado_92, CloudWang3_91, Hexamo_90, Jeffabunny_79, Roksolana_91, Zaka_91, BennyP_91, Helmet_93, Garak_92
• Track 42 : Neeharika16_88, Pmask_88, Jordennis_87, Dorothea_89
• Track 43 : Gruunaga_90
• Track 44 : ToneTone_88, BlessJoy_91, Tucker_91
• Track 45 : Cookiedough_89, Polyphemus_82, SuperAwesome_89, GreedyLawyer_82, Newrala_88, Imbriano_90, JewelBug_81, Kipper29_89
• Track 46 : Priamo_90
• Track 47 : Hammer_91
• Track 48 : Zulu_92
• Track 49 : EricB_87
• Track 50 : Blue7_92
• Track 51 : DelvinSonDorr_84
• Track 52 : SuperCallie99_85
• Track 53 : Hoot_84
• Track 54 : BABullseye_82
• Track 55 : Gladiator_87
• Track 56 : Minispark_82, Bellris_84, CogOmlette_82, Rahalelujah_84
• Track 57 : Scherzo_83, Fayely_83, Tubs_85, Sachima_85, Pioneer_85, Phaeder_85, Aliter_78, Beemo_85, Phonnegut_85, Myxus_85, HortumSL17_86, Onglai_84, Jiawan_85, Catalina_87
• Track 58 : Qobbit_83, Spouty_83, ExplosioNervosa_83, Conquerage_83, Priya_83
• Track 59 : Keziacharles14_82
• Track 60 : Vanisoa_80
• Track 61 : RyeScarlet_85, Holex_85, Hanray_85
• Track 62 : WorldCup_83

• Track 63 : Alma_83, Eidsmoe_83, Ayanochan_82, EmyBug_82
• Track 64 : Lilleskat_85, EdogawaKiddo_85
• Track 65 : Klodlith_81
• Track 66 : Darrell_83
• Track 67 : Charm_80
• Track 68 : Arissanae_80
• Track 69 : SheaKeira_80
• Track 70 : LoneWolf_85
• Track 71 : DreamTeam1_80
• Track 72 : Yecey3_86
• Track 73 : Maminiaina_84
• Track 74 : Celestialunch_80
• Track 75 : BogosyJay_84
• Track 76 : MegTheThird_81
• Track 77 : Toaka_83
• Track 78 : Elephantoon_85
• Track 79 : Kabreeze_80, Tophat_81, Conboy_78, JaNo_79, Scavito_81, Linus_80, Chipper1996_810, HumptyDumpty_80, Chocolat_80, Chubster_81
• Track 80 : Mordred_80
• Track 81 : DrYang_77
• Track 82 : MoyaNatalis_79
• Track 83 : JayCookie_80
• Track 84 : ArV1_067a
• Track 85 : PrincessTrina_81
• Track 86 : Lymara_76
• Track 87 : Colucci_82
• Track 88 : RosiePosie_80, EdgarPoe_79
• Track 89 : KBurrousTX_79
• Track 90 : WileyE_41, Chickaboom_41
• Track 91 : Jamun_39
• Track 92 : Chicken_39
• Track 93 : Zixiang_39, Amanises_42, KendraB23_50, Shen_37, Toad24_42
• Track 94 : Gravel_49, Pelletreau_49, Westrich_48
• Track 95 : Orcanus_40
• Track 96 : Eesa_39
• Track 97 : TaylorSipht_40
• Track 98 : Abidatro_40
• Track 99 : Niblet_39
• Track 100 : Zhuangyuan_44
• Track 101 : Cygnet_42
• Track 102 : Camara_42, Amphitrite_42, AdoptaAdorbs_41, Glotell_43, KHumphrey_42
• Track 103 : Fingolfin_42, Oppalora_41, HamCheese_42, Laphuphu24k_40, DanHam62_42, AmiCi24_41, Juno112_41, Atlantica_42
• Track 104 : Andrew_43
• Track 105 : RedFox_42, PhluffyCoco_42, Rattail_42
• Track 106 : Leona_41, Azaz_42
• Track 107 : StuartMinion_34, AlexMinion_42
• Track 108 : Renna12_41
• Track 109 : Babushka_39
• Track 110 : Chevrolet_73, ArcusAngelus_70
• Track 111 : Tweety_69
• Track 112 : Sassafras_71, Dorothy_71, Inventum_68, RedBird_71

• Track 113 : PhlipPhlop_68, EmiMonkey_66
• Track 114 : Ovechkin_69
• Track 115 : Phanphagia_65
• Track 116 : ShowerHandel_73, ByChance_63
• Track 117 : FoulBall_6, Idergollasper_6, Famílton_7, YoyoKar_6, SchoolBus_6, Zebo_6, KingPhillip3_6, JangDynasty_6, Blessica_6, Catdawg_6
• Track 118 : Schuy_6, Vorrps_6, MadKillah_6, Mori_6, Krili_6, Alkhayr_6, NiebruSaylor_6, Murai_6, Shida_6
• Track 119 : Dylan_7, Smooch_7, Zakhe101_7, Firecracker_6, Corndog_7, Ashwin_7, TelAviv_6, Bora_6, YungJamal_7, Wildflower_6
• Track 120 : Ryadel_8
• Track 121 : Imara_6, Winget_6, Vagabond_6
• Track 122 : Wogge42_6
• Track 123 : Bubbykins_89

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

The start number called the most often in the published annotations is 55, it was called in 136 of the 355 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AbbysRanger_76, Abdiel_78, Achebe_75, Albee_79, Alberto7_80, Annyong_78, Arturo_76, AvatarAhPeg_79, Avle17_79, Baby16_79, Backyardigan_74, Badger_75, BangNhom_76, Bartimeaus_79, BellusTerra_80, Blackmoor_78, Bombshell_79, Broseidon_79, Bruiser_78, Buckaroo_75, Bumblebee11_75, Burger_77, Caelakin_77, CentreCat_79, Cerulean_81, ChampagnePapi_82, Chaph_79, Cici_76, Cintron_79, Citius_79, Clarenza_78, Cocoaberry_79, Commander_77, Connomayer_79, Datway_76, Deano_76, Dhanush_79, DirtyDunning_78, Druantia_78, Eagle_78, Eapen_79, Eris_78, Eros_79, Eurydice_80, Florean_79, Flux_80, Funston_78, Gadost_79, HamSlice_75, Happiness_78, Holli_78, Houdini22_78, Huxley_71, ICleared_78, Iceman_77, Iracema64_79, Jaykayelowell_76, JetBlade_80, JoongJeon_78, Junimo_75, KFPoly_78, Kampy_78, Katalie136_76, Kingmustik0402_79, Koan_76, Koreni_78, Kratark_78, Kremtemulon_76, Kyee_79, LHTSCC_81, Lemur_79, LittleB_79, LittleGuy_79, LochMonster_80, Lorenzo_79, Lunsford_79, Maverick_78, Maxo_81, Mazhar510_79, Medusa_78, MeeZee_78, Melvin_81, Millski_78, Miramae_79, Morpher26_76, Morrow_81, Mundrea_78, Nebs_80, Nemo27_78, NorthStar_76, Northrop_76, NotAPhaseMom_78, Nyxis_78, OKaNui_78, Obama12_80, Ohfah_80, Palestino_78, Peaches_77, Perplexer_76, PeterPeter_79, PetiteSangsue_76, Phacado_79, Phelipe_80, Phighter1804_79, Phontbonne_79, Pipcraft_75, Polymorphads_80, Pumbaa_79, Relief_78, RockieBear_79, Rocksand_76, Romney_78, Roosevelt_77, Rosa24_75, Ruin_79, Sabertooth_79, Scamp_79, SenorClean_80, Shaka_77, SheldonCooper_79, Shygu2_77, Skadoosh_76, Skipitt_78, Sparxx_80, Spino_78, SteMason_79, Stink_79, Sultana_79, Taquarus_78, Thanksgivukkah_78, TinaFeyge_77, Tinybot_78, TiroTheta9_78, TroyPia_80, TygerBlood_79, Ulysses_78, Wander_79, Wilbur_79, Wile_75, Wizard007_76, Xena_75, YoSam321_79,

Genes that have the "Most Annotated" start but do not call it:
• BubbleTrouble_78, KekoraPapaka_76, LappelDuVide_79, Stasia_76,

Genes that do not have the "Most Annotated" start:
• 40AC_84, Abidatro_40, AdoptaAdorbs_41, AlexMinion_42, Aliter_78, Alkhayr_6, Alma_83, Amanises_42, AmiCi24_41, Amphitrite_42, Andrew_43, Anthony_80, ArV1_067a, ArcusAngelus_70, Arissanae_80, Artemis2UCLA_90, Ashwin_7, Atlantica_42, Ayanochan_82, Azaz_42, BABullseye_82, Babushka_39, BabyBack_83, Beemo_85, Bellris_84, BennyP_91, BlessJoy_91, Blessica_6, Blue7_92, BogosyJay_84, Bora_6, Bubbykins_89, ByChance_63, Camara_42, Camperdownii_76, Candra_90, Catalina_87, Catdawg_6, Celestialunch_80, Charm_80, Chartreuse_88, Chevrolet_73, Chickaboom_41, Chicken_39, Chipper1996_810, Chocolat_80, Chubster_81, Chupacabra_76, CloudWang3_91, CogOmlette_82, Colucci_82, Conboy_78, Conquerage_83, Cookiedough_89, Corndog_7, Cygnet_42, DaVinci_87, DanHam62_42, Darrell_83, DarthPhader_80, DelvinSonDorr_84, DontArgue_74, Dorothea_89, Dorothy_71, DrYang_77, Drake94_76, DreamTeam1_80, DustyMartin_81, Dylan_7, EagleEye_89, Eaglepride_82, EdgarPoe_79, EdogawaKiddo_85, Eesa_39, Eidsmoe_83, Elephantoon_85, EmiMonkey_66, EmyBug_82, EricB_87, ExplosioNervosa_83, Familton_7, FatCactus_79, Fayely_83, Fingolfin_42, Firecracker_6, FoulBall_6, Garak_92, GaugeLDP_82, Gladiator_87, Glotell_43, Goose_80, Gravel_49, GreedyLawyer_82, Gruunaga_90, HamCheese_42, Hammer_91, Hanray_85, Helmet_93, Hexamo_90, Holex_85, Hoot_84, HortumSL17_86, HumptyDumpty_80, Idergollasper_6, Imara_6, Imbriano_90, Indra_94, Inventum_68, Isiphiwo_85, JaNo_79, Jamun_39, JangDynasty_6, JayCookie_80, Jeffabunny_79, JewelBug_81, Jiawan_85, Jordennis_87, Juno112_41, KBurrousTX_79, KHumphrey_42, Kabreeze_80, Kazan_90, KendraB23_50, Keziacharles14_82, KingPhillip3_6, Kipper29_89, KittenMittens_75, Klodlith_81, Koko_92, Krili_6, Kristoff_77, Laphuphu24k_40, Leona_41, Lilleskat_85, Linus_80, LoneWolf_85, Lucyedi_88, Lymara_76, MadKillah_6, Maminiaina_84, McFly_89, MegTheThird_81, Minispark_82, Mordred_80, Mori_6, MoyaNatalis_79, Murai_6, Myxus_85, Neeharika16_88, Newrala_88, Niblet_39, NiebruSaylor_6, Noelle_77, OKCentral2016_78, Onglai_84, Oppalora_41, Orcanus_40, Ovechkin_69, PainterBoy_87, PeaceMeal1_76, Pelletreau_49, Phaeder_85, Phanphagia_65, Pharaoh_79, PhlipPhlop_68, PhluffyCoco_42, Phonnegut_85, Pioneer_85, Pmask_88, Polyphemus_82, Poompha_76, Priamo_90, PrincessTrina_81, Priya_83, Qobbit_83, Rahalelujah_84, Rattail_42, Rebeuca_80, RedBird_71, RedFox_42, Refuge_82, Renna12_41, Rifter_91, Roksolana_91, RosiePosie_80, Rowdy_81, Ryadel_8, RyeScarlet_85, Sachima_85, Sassafras_71, Scavito_81, Scherzo_83, SchoolBus_6, Schuy_6, Severus_77, Shapes_81, SheaKeira_80, Shen_37, Shida_6, ShowerHandel_73, SmellyB_89, Smooch_7, Spouty_83, Steamy_77, StuartMinion_34, SuperAwesome_89, SuperCallie99_85, TaylorSipht_40, TelAviv_6, Temprado_92, Toad24_42, Toaka_83, ToneTone_88, Tophat_81, Tubs_85, Tucker_91, Tweety_69, Twister_79, Vagabond_6, Vanisoa_80, VohminGhazi_89, Vorrps_6, WalterMcMickey_78, Westrich_48, Wiks_90, Wildflower_6, WileyE_41, Winget_6, Wogge42_6, WorldCup_83, Yecey3_86, Yokurt_90, YoyoKar_6, YungJamal_7, Zaka_91, Zakhe101_7, Zebo_6, Zhuangyuan_44, Zimmer_81, Zixiang_39, Zulu_92,

**Summary by start number:**

Start 23:
• Found in 16 of 387 ( 4.1% ) of genes in pham
• Manual Annotations of this start: 14 of 355
• Called 87.5% of time when present

• Phage (with cluster) where this start called: Chipper1996_810 (AR), Chocolat_80 (AR), Chubster_81 (AR), Conboy_78 (AR), EdgarPoe_79 (AR), HumptyDumpty_80 (AR), JaNo_79 (AR), JayCookie_80 (AR), Kabreeze_80 (AR), Linus_80 (AR), PrincessTrina_81 (AR), RosiePosie_80 (AR), Scavito_81 (AR), Tophat_81 (AR),

Start 36:
• Found in 29 of 387 ( 7.5% ) of genes in pham
• Manual Annotations of this start: 6 of 355
• Called 27.6% of time when present
• Phage (with cluster) where this start called: ArV1_067a (AR), Bubbykins_89 (UNK), Colucci_82 (AR), DrYang_77 (AR), KBurrousTX_79 (AR), Lymara_76 (AR), Mordred_80 (AR), MoyaNatalis_79 (AR),

Start 37:
• Found in 18 of 387 ( 4.7% ) of genes in pham
• Manual Annotations of this start: 1 of 355
• Called 5.6% of time when present
• Phage (with cluster) where this start called: Camperdownii_76 (A4),

Start 41:
• Found in 130 of 387 ( 33.6% ) of genes in pham
• Manual Annotations of this start: 3 of 355
• Called 2.3% of time when present
• Phage (with cluster) where this start called: BubbleTrouble_78 (A4), LappelDuVide_79 (A4), Stasia_76 (A4),

Start 46:
• Found in 129 of 387 ( 33.3% ) of genes in pham
• No Manual Annotations of this start.
• Called 0.8% of time when present
• Phage (with cluster) where this start called: KekoraPapaka_76 (A4),

Start 48:
• Found in 43 of 387 ( 11.1% ) of genes in pham
• Manual Annotations of this start: 1 of 355
• Called 7.0% of time when present
• Phage (with cluster) where this start called: Klodlith_81 (A9), MegTheThird_81 (A9), Yecey3_86 (A9),

Start 49:
• Found in 80 of 387 ( 20.7% ) of genes in pham
• Manual Annotations of this start: 5 of 355
• Called 7.5% of time when present
• Phage (with cluster) where this start called: BogosyJay_84 (A9), Celestialunch_80 (A9), Charm_80 (A9), DelvinSonDorr_84 (A6), DreamTeam1_80 (A9), Noelle_77 (A4),

Start 50:
• Found in 82 of 387 ( 21.2% ) of genes in pham
• Manual Annotations of this start: 24 of 355
• Called 29.3% of time when present
• Phage (with cluster) where this start called: Alma_83 (A9), Ayanochan_82 (A9), Chupacabra_76 (A10), Drake94_76 (A10), Eaglepride_82 (A10), Eidsmoe_83 (A9),

EmyBug_82 (A9), Goose_80 (A10), Hammer_91 (A6), Hanray_85 (A9), Holex_85 (A9), Keziacharles14_82 (A9), KittenMittens_75 (A10), Kristoff_77 (A10), OKCentral2016_78 (A10), PeaceMeal1_76 (A10), Poompha_76 (A10), Priamo_90 (A6), Rebeuca_80 (A10), RyeScarlet_85 (A9), Severus_77 (A10), SheaKeira_80 (A9), Twister_79 (A10), WalterMcMickey_78 (A10),

Start 51:
• Found in 34 of 387 ( 8.8% ) of genes in pham
• Manual Annotations of this start: 31 of 355
• Called 97.1% of time when present
• Phage (with cluster) where this start called: Alkhayr_6 (O), Ashwin_7 (O), Blessica_6 (O), Bora_6 (O), Catdawg_6 (O), Corndog_7 (O), Dylan_7 (O), Familton_7 (O), Firecracker_6 (O), FoulBall_6 (O), Idergollasper_6 (O), Imara_6 (O), JangDynasty_6 (O), KingPhillip3_6 (O), Krili_6 (O), MadKillah_6 (O), Mori_6 (O), Murai_6 (O), NiebruSaylor_6 (O), SchoolBus_6 (O), Schuy_6 (O), Shida_6 (O), Smooch_7 (O), TelAviv_6 (O), Vagabond_6 (O), Vorrps_6 (O), Wildflower_6 (O), Winget_6 (O), Wogge42_6 (O), YoyoKar_6 (O), YungJamal_7 (O), Zakhe101_7 (O), Zebo_6 (O),

Start 52:
• Found in 11 of 387 ( 2.8% ) of genes in pham
• Manual Annotations of this start: 6 of 355
• Called 54.5% of time when present
• Phage (with cluster) where this start called: Arissanae_80 (A9), Darrell_83 (A9), Elephantoon_85 (A9), LoneWolf_85 (A9), Maminiaina_84 (A9), Vanisoa_80 (A9),

Start 53:
• Found in 35 of 387 ( 9.0% ) of genes in pham
• Manual Annotations of this start: 24 of 355
• Called 77.1% of time when present
• Phage (with cluster) where this start called: Aliter_78 (A9), Beemo_85 (A9), Bellris_84 (A9), Catalina_87 (A9), CogOmlette_82 (A9), Conquerage_83 (A9), EdogawaKiddo_85 (A9), ExplosioNervosa_83 (A9), Fayely_83 (A9), HortumSL17_86 (A9), Jiawan_85 (A9), Lilleskat_85 (A9), Minispark_82 (A9), Myxus_85 (A9), Onglai_84 (A9), Phaeder_85 (A9), Phonnegut_85 (A9), Pioneer_85 (A9), Priya_83 (A9), Qobbit_83 (A9), Rahalelujah_84 (A9), Sachima_85 (A9), Scherzo_83 (A9), Spouty_83 (A9), Toaka_83 (A9), Tubs_85 (A9), WorldCup_83 (A9),

Start 55:
• Found in 146 of 387 ( 37.7% ) of genes in pham
• Manual Annotations of this start: 136 of 355
• Called 97.3% of time when present
• Phage (with cluster) where this start called: AbbysRanger_76 (A4), Abdiel_78 (A4), Achebe_75 (A4), Albee_79 (A4), Alberto7_80 (A4), Annyong_78 (A4), Arturo_76 (A4), AvatarAhPeg_79 (A4), Avle17_79 (A4), Baby16_79 (A4), Backyardigan_74 (A4), Badger_75 (A4), BangNhom_76 (A4), Bartimeaus_79 (A4), BellusTerra_80 (A4), Blackmoor_78 (A4), Bombshell_79 (A4), Broseidon_79 (A4), Bruiser_78 (A4), Buckaroo_75 (A4), Bumblebee11_75 (A4), Burger_77 (A4), Caelakin_77 (A4), CentreCat_79 (A4), Cerulean_81 (A4), ChampagnePapi_82 (A4), Chaph_79 (A4), Cici_76 (A4), Cintron_79 (A4), Citius_79 (A4), Clarenza_78 (A4), Cocoaberry_79 (A4), Commander_77 (A4), Connomayer_79 (A4), Datway_76 (A4), Deano_76 (A4), Dhanush_79 (A4), DirtyDunning_78 (A4), Druantia_78 (A4), Eagle_78 (A4), Eapen_79 (A4), Eris_78 (A4), Eros_79 (A4), Eurydice_80 (A4), Florean_79 (A4), Flux_80 (A4), Funston_78 (A4), Gadost_79 (A4), HamSlice_75 (A4), Happiness_78

(A4), Holli_78 (A4), Houdini22_78 (A4), Huxley_71 (A4), ICleared_78 (A4), Iceman_77 (A4), Iracema64_79 (A4), Jaykayelowell_76 (A4), JetBlade_80 (A4), JoongJeon_78 (A4), Junimo_75 (A4), KFPoly_78 (A4), Kampy_78 (A4), Katalie136_76 (A4), Kingmustik0402_79 (A4), Koan_76 (A4), Koreni_78 (A4), Kratark_78 (A4), Kremtemulon_76 (A4), Kyee_79 (A4), LHTSCC_81 (A4), Lemur_79 (A4), LittleB_79 (A4), LittleGuy_79 (A4), LochMonster_80 (A4), Lorenzo_79 (A4), Lunsford_79 (A4), Maverick_78 (A4), Maxo_81 (A4), Mazhar510_79 (A4), Medusa_78 (A4), MeeZee_78 (A4), Melvin_81 (A4), Millski_78 (A4), Miramae_79 (A4), Morpher26_76 (A4), Morrow_81 (A4), Mundrea_78 (A4), Nebs_80 (A4), Nemo27_78 (A4), NorthStar_76 (A4), Northrop_76 (A4), NotAPhaseMom_78 (A4), Nyxis_78 (A4), OKaNui_78 (A4), Obama12_80 (A4), Ohfah_80 (A4), Palestino_78 (A4), Peaches_77 (A4), Perplexer_76 (A4), PeterPeter_79 (A4), PetiteSangsue_76 (A4), Phacado_79 (A4), Phelipe_80 (A4), Phighter1804_79 (A4), Phontbonne_79 (A4), Pipcraft_75 (A4), Polymorphads_80 (A4), Pumbaa_79 (A4), Relief_78 (A4), RockieBear_79 (A4), Rocksand_76 (A4), Romney_78 (A4), Roosevelt_77 (A4), Rosa24_75 (A4), Ruin_79 (A4), Sabertooth_79 (A4), Scamp_79 (A4), SenorClean_80 (A4), Shaka_77 (A4), SheldonCooper_79 (A4), Shygu2_77 (A4), Skadoosh_76 (A4), Skipitt_78 (A4), Sparxx_80 (A4), Spino_78 (A4), SteMason_79 (A4), Stink_79 (A4), Sultana_79 (A4), Taquarus_78 (A4), Thanksgivukkah_78 (A4), TinaFeyge_77 (A4), Tinybot_78 (A4), TiroTheta9_78 (A4), TroyPia_80 (A4), TygerBlood_79 (A4), Ulysses_78 (A4), Wander_79 (A4), Wilbur_79 (A4), Wile_75 (A4), Wizard007_76 (A4), Xena_75 (A4), YoSam321_79 (A4),

Start 56:
• Found in 42 of 387 ( 10.9% ) of genes in pham
• Manual Annotations of this start: 34 of 355
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Abidatro_40 (AS1), AdoptaAdorbs_41 (AS3), AlexMinion_42 (AS3), Amanises_42 (AS1), AmiCi24_41 (AS3), Amphitrite_42 (AS3), Andrew_43 (AS3), Atlantica_42 (AS3), Azaz_42 (AS3), Babushka_39 (AS3), Camara_42 (AS3), Chickaboom_41 (AS1), Chicken_39 (AS1), Cygnet_42 (AS2), DanHam62_42 (AS3), Eesa_39 (AS1), Fingolfin_42 (AS3), Glotell_43 (AS3), Gravel_49 (AS1), HamCheese_42 (AS3), Jamun_39 (AS1), Juno112_41 (AS3), KHumphrey_42 (AS3), KendraB23_50 (AS1), Laphuphu24k_40 (AS3), Leona_41 (AS3), Niblet_39 (AS1), Oppalora_41 (AS3), Orcanus_40 (AS1), Pelletreau_49 (AS1), PhluffyCoco_42 (AS3), Rattail_42 (AS3), RedFox_42 (AS3), Renna12_41 (AS3), Shen_37 (AS1), StuartMinion_34 (AS3), TaylorSipht_40 (AS1), Toad24_42 (AS1), Westrich_48 (AS1), WileyE_41 (AS1), Zhuangyuan_44 (AS2), Zixiang_39 (AS1),

Start 57:
• Found in 7 of 387 ( 1.8% ) of genes in pham
• Manual Annotations of this start: 2 of 355
• Called 85.7% of time when present
• Phage (with cluster) where this start called: DontArgue_74 (A10), DustyMartin_81 (A10), EagleEye_89 (A16), PainterBoy_87 (A16), Rowdy_81 (A10), Shapes_81 (A10),

Start 58:
• Found in 5 of 387 ( 1.3% ) of genes in pham
• Manual Annotations of this start: 1 of 355
• Called 20.0% of time when present
• Phage (with cluster) where this start called: Lucyedi_88 (A16),

Start 59:
• Found in 2 of 387 ( 0.5% ) of genes in pham
• Manual Annotations of this start: 2 of 355
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Pharaoh_79 (A12), Steamy_77 (A12),

Start 60:
• Found in 1 of 387 ( 0.3% ) of genes in pham
• Manual Annotations of this start: 1 of 355
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ryadel_8 (O),

Start 61:
• Found in 51 of 387 ( 13.2% ) of genes in pham
• Manual Annotations of this start: 25 of 355
• Called 52.9% of time when present
• Phage (with cluster) where this start called: 40AC_84 (A17), Anthony_80 (A20), Artemis2UCLA_90 (A6), BABullseye_82 (A6), BabyBack_83 (A2), BennyP_91 (A6), CloudWang3_91 (A6), Dorothea_89 (A6), FatCactus_79 (A20), Garak_92 (A6), GaugeLDP_82 (A2), Gladiator_87 (A6), Helmet_93 (A6), Hexamo_90 (A6), Indra_94 (A6), Jeffabunny_79 (A6), Jordennis_87 (A6), Koko_92 (A6), Neeharika16_88 (A6), Pmask_88 (A6), Rifter_91 (A6), Roksolana_91 (A6), SuperCallie99_85 (A6), Temprado_92 (A6), Wiks_90 (A6), Yokurt_90 (A6), Zaka_91 (A6),

Start 63:
• Found in 38 of 387 ( 9.8% ) of genes in pham
• Manual Annotations of this start: 27 of 355
• Called 71.1% of time when present
• Phage (with cluster) where this start called: BlessJoy_91 (A6), Blue7_92 (A6), Candra_90 (A6), Chartreuse_88 (A6), Cookiedough_89 (A6), DaVinci_87 (A6), DarthPhader_80 (A12), EricB_87 (A6), GreedyLawyer_82 (A6), Gruunaga_90 (A6), Hoot_84 (A6), Imbriano_90 (A6), Isiphiwo_85 (A6), JewelBug_81 (A6), Kazan_90 (A6), Kipper29_89 (A6), McFly_89 (A6), Newrala_88 (A6), Polyphemus_82 (A6), Refuge_82 (A12), SmellyB_89 (A6), SuperAwesome_89 (A6), ToneTone_88 (A6), Tucker_91 (A6), VohminGhazi_89 (A6), Zimmer_81 (A12), Zulu_92 (A6),

Start 64:
• Found in 13 of 387 ( 3.4% ) of genes in pham
• Manual Annotations of this start: 12 of 355
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ArcusAngelus_70 (F1), ByChance_63 (F1), Chevrolet_73 (F1), Dorothy_71 (F1), EmiMonkey_66 (F1), Inventum_68 (F1), Ovechkin_69 (F1), Phanphagia_65 (F1), PhlipPhlop_68 (F1), RedBird_71 (F1), Sassafras_71 (F1), ShowerHandel_73 (F1), Tweety_69 (F1),

**Summary by clusters:**

There are 16 clusters represented in this pham: A20, AS3, AS1, A16, A10, A12, A17, O, F1, AR, A4, A6, A9, UNK, A2, AS2,

Info for manual annotations of cluster A10:
•Start number 50 was manually annotated 13 times for cluster A10.

Info for manual annotations of cluster A12:
•Start number 59 was manually annotated 2 times for cluster A12.
•Start number 63 was manually annotated 3 times for cluster A12.

Info for manual annotations of cluster A16:
•Start number 57 was manually annotated 2 times for cluster A16.
•Start number 58 was manually annotated 1 time for cluster A16.

Info for manual annotations of cluster A2:
•Start number 61 was manually annotated 2 times for cluster A2.

Info for manual annotations of cluster A20:
•Start number 61 was manually annotated 2 times for cluster A20.

Info for manual annotations of cluster A4:
•Start number 37 was manually annotated 1 time for cluster A4.
•Start number 41 was manually annotated 3 times for cluster A4.
•Start number 49 was manually annotated 1 time for cluster A4.
•Start number 55 was manually annotated 136 times for cluster A4.

Info for manual annotations of cluster A6:
•Start number 50 was manually annotated 2 times for cluster A6.
•Start number 61 was manually annotated 21 times for cluster A6.
•Start number 63 was manually annotated 24 times for cluster A6.

Info for manual annotations of cluster A9:
•Start number 48 was manually annotated 1 time for cluster A9.
•Start number 49 was manually annotated 4 times for cluster A9.
•Start number 50 was manually annotated 9 times for cluster A9.
•Start number 52 was manually annotated 6 times for cluster A9.
•Start number 53 was manually annotated 24 times for cluster A9.

Info for manual annotations of cluster AR:
•Start number 23 was manually annotated 14 times for cluster AR.
•Start number 36 was manually annotated 5 times for cluster AR.

Info for manual annotations of cluster AS1:
•Start number 56 was manually annotated 13 times for cluster AS1.

Info for manual annotations of cluster AS2:
•Start number 56 was manually annotated 2 times for cluster AS2.

Info for manual annotations of cluster AS3:
•Start number 56 was manually annotated 19 times for cluster AS3.

Info for manual annotations of cluster F1:
•Start number 64 was manually annotated 12 times for cluster F1.

Info for manual annotations of cluster O:
•Start number 51 was manually annotated 31 times for cluster O.
•Start number 60 was manually annotated 1 time for cluster O.

Info for manual annotations of cluster UNK:
•Start number 36 was manually annotated 1 time for cluster UNK.

### *Gene Information:*

Gene: 40AC_84 Start: 49609, Stop: 49076, Start Num: 61
Candidate Starts for 40AC_84:
(Start: 61 @49609 has 25 MA's), (73, 49516), (77, 49474), (79, 49447), (80, 49432), (85, 49417), (87, 49387), (96, 49288), (98, 49273), (109, 49216), (112, 49195),

Gene: AbbysRanger_76 Start: 47071, Stop: 46538, Start Num: 55
Candidate Starts for AbbysRanger_76:
(16, 47266), (19, 47224), (29, 47188), (31, 47176), (39, 47122), (Start: 55 @47071 has 136 MA's), (78, 46909), (87, 46840), (96, 46741), (98, 46726), (104, 46678), (109, 46669),

Gene: Abdiel_78 Start: 47271, Stop: 46738, Start Num: 55
Candidate Starts for Abdiel_78:
(Start: 41 @47316 has 3 MA's), (46, 47283), (Start: 55 @47271 has 136 MA's), (78, 47109), (79, 47100), (87, 47040), (96, 46941), (98, 46926), (104, 46878), (109, 46869),

Gene: Abidatro_40 Start: 27123, Stop: 27719, Start Num: 56
Candidate Starts for Abidatro_40:
(3, 26661), (5, 26739), (21, 26958), (Start: 56 @27123 has 34 MA's), (70, 27192), (76, 27249), (78, 27288), (80, 27312), (87, 27357), (90, 27384), (96, 27456), (98, 27471), (101, 27507), (102, 27528), (108, 27558), (113, 27639), (118, 27708),

Gene: Achebe_75 Start: 47050, Stop: 46517, Start Num: 55
Candidate Starts for Achebe_75:
(4, 47452), (7, 47380), (16, 47245), (19, 47203), (29, 47167), (31, 47155), (39, 47101), (Start: 55 @47050 has 136 MA's), (77, 46906), (78, 46888), (87, 46819), (96, 46720), (98, 46705), (104, 46657), (109, 46648),

Gene: AdoptaAdorbs_41 Start: 26809, Stop: 27417, Start Num: 56
Candidate Starts for AdoptaAdorbs_41:
(Start: 56 @26809 has 34 MA's), (76, 26932), (78, 26971), (80, 26995), (84, 27004), (87, 27040), (90, 27067), (96, 27139), (97, 27142), (98, 27154), (101, 27190), (102, 27211), (112, 27271), (121, 27412),

Gene: Albee_79 Start: 47259, Stop: 46726, Start Num: 55
Candidate Starts for Albee_79:
(Start: 41 @47304 has 3 MA's), (46, 47271), (Start: 55 @47259 has 136 MA's), (78, 47097), (79, 47088), (87, 47028), (96, 46929), (98, 46914), (104, 46866), (109, 46857),

Gene: Alberto7_80 Start: 47596, Stop: 47063, Start Num: 55
Candidate Starts for Alberto7_80:
(Start: 41 @47641 has 3 MA's), (46, 47608), (Start: 55 @47596 has 136 MA's), (77, 47452), (78, 47434), (79, 47425), (87, 47365), (96, 47266), (98, 47251), (104, 47203), (109, 47194),

Gene: AlexMinion_42 Start: 26975, Stop: 27574, Start Num: 56
Candidate Starts for AlexMinion_42:
(Start: 56 @26975 has 34 MA's), (69, 27032), (76, 27098), (78, 27137), (84, 27170), (87, 27206), (96, 27305), (98, 27320), (101, 27356), (102, 27377),

Gene: Aliter_78 Start: 44452, Stop: 43904, Start Num: 53
Candidate Starts for Aliter_78:
(Start: 53 @44452 has 24 MA's), (75, 44323), (80, 44260), (84, 44251), (87, 44215), (94, 44134), (98, 44101), (104, 44053), (109, 44044),

Gene: Alkhayr_6 Start: 2237, Stop: 1647, Start Num: 51
Candidate Starts for Alkhayr_6:
(20, 2390), (35, 2315), (45, 2258), (Start: 48 @2246 has 1 MA's), (Start: 51 @2237 has 31 MA's), (66, 2186), (67, 2183), (75, 2108), (77, 2084), (80, 2042), (86, 2012), (98, 1871), (102, 1820), (106, 1799),

Gene: Alma_83 Start: 47302, Stop: 46748, Start Num: 50
Candidate Starts for Alma_83:
(Start: 48 @47308 has 1 MA's), (Start: 49 @47305 has 5 MA's), (Start: 50 @47302 has 24 MA's), (Start: 53 @47296 has 24 MA's), (75, 47167), (80, 47104), (84, 47095), (87, 47059), (94, 46978), (98, 46945), (104, 46897), (109, 46888),

Gene: Amanises_42 Start: 28188, Stop: 28781, Start Num: 56
Candidate Starts for Amanises_42:
(Start: 56 @28188 has 34 MA's), (70, 28254), (76, 28311), (78, 28350), (80, 28374), (90, 28446), (96, 28518), (98, 28533), (101, 28569), (102, 28590), (108, 28620), (113, 28701), (118, 28770),

Gene: AmiCi24_41 Start: 26807, Stop: 27406, Start Num: 56
Candidate Starts for AmiCi24_41:
(Start: 56 @26807 has 34 MA's), (76, 26930), (78, 26969), (84, 27002), (87, 27038), (90, 27065), (96, 27137), (98, 27152), (101, 27188), (102, 27209), (113, 27320), (120, 27401),

Gene: Amphitrite_42 Start: 26808, Stop: 27416, Start Num: 56
Candidate Starts for Amphitrite_42:
(Start: 56 @26808 has 34 MA's), (76, 26931), (78, 26970), (80, 26994), (84, 27003), (87, 27039), (90, 27066), (96, 27138), (97, 27141), (98, 27153), (101, 27189), (102, 27210), (112, 27270), (121, 27411),

Gene: Andrew_43 Start: 26701, Stop: 27291, Start Num: 56
Candidate Starts for Andrew_43:
(Start: 56 @26701 has 34 MA's), (70, 26758), (76, 26815), (78, 26854), (84, 26887), (87, 26923), (90, 26950), (96, 27022), (98, 27037), (101, 27073), (102, 27094), (108, 27124), (112, 27154), (117, 27238),

Gene: Annyong_78 Start: 47304, Stop: 46771, Start Num: 55
Candidate Starts for Annyong_78:
(Start: 41 @47349 has 3 MA's), (46, 47316), (Start: 55 @47304 has 136 MA's), (78, 47142), (79, 47133), (87, 47073), (96, 46974), (98, 46959), (104, 46911), (109, 46902),

Gene: Anthony_80 Start: 47872, Stop: 47306, Start Num: 61
Candidate Starts for Anthony_80:
(Start: 58 @47875 has 1 MA's), (Start: 61 @47872 has 25 MA's), (67, 47833), (69, 47821), (74, 47761), (75, 47758), (79, 47710), (80, 47695), (87, 47650), (96, 47551), (98, 47536), (102, 47494), (105, 47476), (106, 47473), (112, 47431),

Gene: ArV1_067a Start: 51241, Stop: 52050, Start Num: 36
Candidate Starts for ArV1_067a:
(Start: 36 @51241 has 6 MA's), (43, 51256), (67, 51349), (78, 51466), (82, 51508), (86, 51523), (87, 51550), (93, 51628), (96, 51649), (100, 51691), (101, 51700), (111, 51781), (114, 51850), (116,

51871), (119, 51928), (122, 51979),

Gene: ArcusAngelus_70 Start: 43403, Stop: 44188, Start Num: 64
Candidate Starts for ArcusAngelus_70:
(30, 43280), (Start: 36 @43322 has 6 MA's), (Start: 64 @43403 has 12 MA's), (65, 43418), (75, 43514), (87, 43625), (92, 43685), (99, 43748), (101, 43775), (103, 43796), (115, 43931), (123, 44042), (124, 44072), (125, 44102),

Gene: Arissanae_80 Start: 47191, Stop: 46640, Start Num: 52
Candidate Starts for Arissanae_80:
(28, 47317), (Start: 48 @47200 has 1 MA's), (Start: 49 @47197 has 5 MA's), (Start: 50 @47194 has 24 MA's), (Start: 52 @47191 has 6 MA's), (80, 46996), (85, 46981), (87, 46951), (94, 46870), (98, 46837), (104, 46789), (109, 46780),

Gene: Artemis2UCLA_90 Start: 47554, Stop: 47027, Start Num: 61
Candidate Starts for Artemis2UCLA_90:
(28, 47671), (Start: 49 @47560 has 5 MA's), (Start: 50 @47557 has 24 MA's), (Start: 61 @47554 has 25 MA's), (67, 47518), (71, 47485), (75, 47443), (85, 47365), (87, 47335), (96, 47236), (97, 47233), (98, 47221), (99, 47212), (104, 47173), (109, 47164),

Gene: Arturo_76 Start: 47387, Stop: 46854, Start Num: 55
Candidate Starts for Arturo_76:
(Start: 41 @47432 has 3 MA's), (46, 47399), (Start: 55 @47387 has 136 MA's), (77, 47243), (78, 47225), (79, 47216), (87, 47156), (96, 47057), (98, 47042), (104, 46994), (109, 46985),

Gene: Ashwin_7 Start: 2541, Stop: 1951, Start Num: 51
Candidate Starts for Ashwin_7:
(Start: 51 @2541 has 31 MA's), (66, 2490), (67, 2487), (75, 2412), (77, 2388), (78, 2370), (86, 2316), (98, 2175), (102, 2124), (106, 2103),

Gene: Atlantica_42 Start: 26809, Stop: 27408, Start Num: 56
Candidate Starts for Atlantica_42:
(Start: 56 @26809 has 34 MA's), (76, 26932), (78, 26971), (84, 27004), (87, 27040), (90, 27067), (96, 27139), (98, 27154), (101, 27190), (102, 27211), (113, 27322), (120, 27403),

Gene: AvatarAhPeg_79 Start: 47420, Stop: 46878, Start Num: 55
Candidate Starts for AvatarAhPeg_79:
(Start: 55 @47420 has 136 MA's), (67, 47372), (68, 47366), (70, 47351), (77, 47276), (78, 47258), (79, 47249), (87, 47189), (96, 47090), (98, 47075), (104, 47027), (109, 47018),

Gene: Avle17_79 Start: 47253, Stop: 46720, Start Num: 55
Candidate Starts for Avle17_79:
(Start: 41 @47298 has 3 MA's), (46, 47265), (Start: 55 @47253 has 136 MA's), (77, 47109), (78, 47091), (79, 47082), (87, 47022), (96, 46923), (98, 46908), (104, 46860), (109, 46851),

Gene: Ayanochan_82 Start: 47085, Stop: 46531, Start Num: 50
Candidate Starts for Ayanochan_82:
(Start: 48 @47091 has 1 MA's), (Start: 49 @47088 has 5 MA's), (Start: 50 @47085 has 24 MA's), (Start: 53 @47079 has 24 MA's), (75, 46950), (80, 46887), (84, 46878), (87, 46842), (94, 46761), (98, 46728), (104, 46680), (109, 46671),

Gene: Azaz_42 Start: 26884, Stop: 27486, Start Num: 56
Candidate Starts for Azaz_42:

(Start: 56 @26884 has 34 MA's), (70, 26941), (76, 26998), (78, 27037), (84, 27070), (87, 27106), (90, 27133), (96, 27205), (98, 27220), (101, 27256), (102, 27277), (113, 27388),

Gene: BABullseye_82 Start: 45889, Stop: 45359, Start Num: 61
Candidate Starts for BABullseye_82:
(28, 46006), (42, 45925), (Start: 49 @45895 has 5 MA's), (Start: 61 @45889 has 25 MA's), (Start: 63 @45886 has 27 MA's), (67, 45850), (75, 45775), (77, 45754), (85, 45697), (87, 45667), (88, 45652), (96, 45568), (97, 45565), (98, 45553), (99, 45544), (104, 45505), (109, 45496),

Gene: Babushka_39 Start: 26742, Stop: 27350, Start Num: 56
Candidate Starts for Babushka_39:
(Start: 56 @26742 has 34 MA's), (76, 26865), (78, 26904), (84, 26937), (87, 26973), (90, 27000), (96, 27072), (97, 27075), (98, 27087), (101, 27123), (102, 27144), (112, 27204), (121, 27345),

Gene: Baby16_79 Start: 47270, Stop: 46737, Start Num: 55
Candidate Starts for Baby16_79:
(Start: 41 @47315 has 3 MA's), (46, 47282), (Start: 55 @47270 has 136 MA's), (78, 47108), (79, 47099), (87, 47039), (96, 46940), (98, 46925), (104, 46877), (109, 46868),

Gene: BabyBack_83 Start: 49524, Stop: 48991, Start Num: 61
Candidate Starts for BabyBack_83:
(Start: 49 @49530 has 5 MA's), (Start: 50 @49527 has 24 MA's), (Start: 61 @49524 has 25 MA's), (Start: 63 @49521 has 27 MA's), (73, 49431), (74, 49413), (75, 49410), (77, 49389), (79, 49362), (87, 49302), (96, 49203), (98, 49188), (104, 49140), (109, 49131), (112, 49110),

Gene: Backyardigan_74 Start: 47087, Stop: 46554, Start Num: 55
Candidate Starts for Backyardigan_74:
(16, 47282), (19, 47240), (29, 47204), (31, 47192), (39, 47138), (Start: 55 @47087 has 136 MA's), (78, 46925), (87, 46856), (96, 46757), (98, 46742), (104, 46694), (109, 46685),

Gene: Badger_75 Start: 47053, Stop: 46520, Start Num: 55
Candidate Starts for Badger_75:
(16, 47248), (19, 47206), (29, 47170), (31, 47158), (39, 47104), (Start: 55 @47053 has 136 MA's), (78, 46891), (87, 46822), (96, 46723), (98, 46708), (104, 46660), (109, 46651),

Gene: BangNhom_76 Start: 47696, Stop: 47163, Start Num: 55
Candidate Starts for BangNhom_76:
(Start: 41 @47741 has 3 MA's), (46, 47708), (Start: 55 @47696 has 136 MA's), (77, 47552), (78, 47534), (79, 47525), (87, 47465), (96, 47366), (98, 47351), (104, 47303), (109, 47294),

Gene: Bartimeaus_79 Start: 47261, Stop: 46728, Start Num: 55
Candidate Starts for Bartimeaus_79:
(Start: 41 @47306 has 3 MA's), (46, 47273), (Start: 55 @47261 has 136 MA's), (78, 47099), (79, 47090), (87, 47030), (96, 46931), (98, 46916), (104, 46868), (109, 46859),

Gene: Beemo_85 Start: 47289, Stop: 46741, Start Num: 53
Candidate Starts for Beemo_85:
(Start: 53 @47289 has 24 MA's), (75, 47160), (80, 47097), (84, 47088), (87, 47052), (94, 46971), (98, 46938), (104, 46890), (109, 46881),

Gene: Bellris_84 Start: 46814, Stop: 46266, Start Num: 53
Candidate Starts for Bellris_84:

(1, 47396), (28, 46937), (Start: 48 @46826 has 1 MA's), (Start: 49 @46823 has 5 MA's), (Start: 52 @46817 has 6 MA's), (Start: 53 @46814 has 24 MA's), (77, 46664), (80, 46622), (85, 46607), (87, 46577), (94, 46496), (98, 46463), (104, 46415), (109, 46406),

Gene: BellusTerra_80 Start: 47300, Stop: 46767, Start Num: 55
Candidate Starts for BellusTerra_80:
(4, 47702), (7, 47630), (16, 47495), (19, 47453), (29, 47417), (31, 47405), (39, 47351), (Start: 55 @47300 has 136 MA's), (77, 47156), (78, 47138), (79, 47129), (87, 47069), (96, 46970), (98, 46955), (104, 46907), (109, 46898),

Gene: BennyP_91 Start: 47731, Stop: 47204, Start Num: 61
Candidate Starts for BennyP_91:
(28, 47848), (Start: 49 @47737 has 5 MA's), (Start: 50 @47734 has 24 MA's), (Start: 61 @47731 has 25 MA's), (67, 47695), (71, 47662), (75, 47620), (85, 47542), (87, 47512), (96, 47413), (97, 47410), (98, 47398), (99, 47389), (104, 47350), (109, 47341),

Gene: Blackmoor_78 Start: 47261, Stop: 46728, Start Num: 55
Candidate Starts for Blackmoor_78:
(Start: 41 @47306 has 3 MA's), (46, 47273), (Start: 55 @47261 has 136 MA's), (78, 47099), (79, 47090), (87, 47030), (96, 46931), (98, 46916), (104, 46868), (109, 46859),

Gene: BlessJoy_91 Start: 48075, Stop: 47548, Start Num: 63
Candidate Starts for BlessJoy_91:
(28, 48195), (Start: 49 @48084 has 5 MA's), (Start: 50 @48081 has 24 MA's), (Start: 63 @48075 has 27 MA's), (67, 48039), (71, 48006), (75, 47964), (85, 47886), (87, 47856), (96, 47757), (97, 47754), (98, 47742), (99, 47733), (104, 47694), (109, 47685),

Gene: Blessica_6 Start: 2096, Stop: 1506, Start Num: 51
Candidate Starts for Blessica_6:
(Start: 51 @2096 has 31 MA's), (66, 2045), (67, 2042), (75, 1967), (77, 1943), (80, 1901), (86, 1871), (98, 1730), (102, 1679), (106, 1658),

Gene: Blue7_92 Start: 47785, Stop: 47258, Start Num: 63
Candidate Starts for Blue7_92:
(28, 47905), (Start: 49 @47794 has 5 MA's), (Start: 50 @47791 has 24 MA's), (Start: 61 @47788 has 25 MA's), (Start: 63 @47785 has 27 MA's), (67, 47749), (71, 47716), (75, 47674), (85, 47596), (87, 47566), (96, 47467), (97, 47464), (98, 47452), (99, 47443), (104, 47404), (109, 47395),

Gene: BogosyJay_84 Start: 47353, Stop: 46796, Start Num: 49
Candidate Starts for BogosyJay_84:
(Start: 48 @47356 has 1 MA's), (Start: 49 @47353 has 5 MA's), (Start: 50 @47350 has 24 MA's), (Start: 52 @47347 has 6 MA's), (69, 47278), (77, 47194), (80, 47152), (85, 47137), (95, 47023), (98, 46993), (104, 46945), (109, 46936),

Gene: Bombshell_79 Start: 47256, Stop: 46723, Start Num: 55
Candidate Starts for Bombshell_79:
(Start: 41 @47301 has 3 MA's), (46, 47268), (Start: 55 @47256 has 136 MA's), (77, 47112), (78, 47094), (79, 47085), (87, 47025), (96, 46926), (98, 46911), (104, 46863), (109, 46854),

Gene: Bora_6 Start: 2231, Stop: 1641, Start Num: 51
Candidate Starts for Bora_6:
(Start: 51 @2231 has 31 MA's), (66, 2180), (67, 2177), (75, 2102), (77, 2078), (78, 2060), (86, 2006), (98, 1865), (102, 1814), (106, 1793),

Gene: Broseidon_79 Start: 47262, Stop: 46729, Start Num: 55
Candidate Starts for Broseidon_79:
(Start: 41 @47307 has 3 MA's), (46, 47274), (Start: 55 @47262 has 136 MA's), (78, 47100), (79, 47091), (87, 47031), (96, 46932), (98, 46917), (104, 46869), (109, 46860),

Gene: Bruiser_78 Start: 47259, Stop: 46726, Start Num: 55
Candidate Starts for Bruiser_78:
(Start: 41 @47304 has 3 MA's), (46, 47271), (Start: 55 @47259 has 136 MA's), (77, 47115), (78, 47097), (79, 47088), (87, 47028), (96, 46929), (98, 46914), (104, 46866), (109, 46857),

Gene: BubbleTrouble_78 Start: 47331, Stop: 46753, Start Num: 41
Candidate Starts for BubbleTrouble_78:
(Start: 41 @47331 has 3 MA's), (46, 47298), (Start: 55 @47286 has 136 MA's), (78, 47124), (79, 47115), (87, 47055), (96, 46956), (98, 46941), (104, 46893), (109, 46884),

Gene: Bubbykins_89 Start: 54746, Stop: 55561, Start Num: 36
Candidate Starts for Bubbykins_89:
(Start: 36 @54746 has 6 MA's), (Start: 48 @54809 has 1 MA's), (68, 54884), (69, 54890), (80, 55019), (86, 55037), (91, 55094), (93, 55142), (101, 55214), (110, 55286), (114, 55364), (115, 55382), (119, 55442),

Gene: Buckaroo_75 Start: 47263, Stop: 46730, Start Num: 55
Candidate Starts for Buckaroo_75:
(Start: 41 @47308 has 3 MA's), (46, 47275), (Start: 55 @47263 has 136 MA's), (78, 47101), (79, 47092), (87, 47032), (96, 46933), (98, 46918), (104, 46870), (109, 46861),

Gene: Bumblebee11_75 Start: 47053, Stop: 46520, Start Num: 55
Candidate Starts for Bumblebee11_75:
(16, 47248), (19, 47206), (29, 47170), (31, 47158), (39, 47104), (Start: 55 @47053 has 136 MA's), (78, 46891), (87, 46822), (96, 46723), (98, 46708), (104, 46660), (109, 46651),

Gene: Burger_77 Start: 47259, Stop: 46726, Start Num: 55
Candidate Starts for Burger_77:
(Start: 41 @47304 has 3 MA's), (46, 47271), (Start: 55 @47259 has 136 MA's), (77, 47115), (78, 47097), (79, 47088), (87, 47028), (96, 46929), (98, 46914), (104, 46866), (109, 46857),

Gene: ByChance_63 Start: 41432, Stop: 42055, Start Num: 64
Candidate Starts for ByChance_63:
(30, 41309), (Start: 36 @41351 has 6 MA's), (Start: 64 @41432 has 12 MA's), (65, 41447), (68, 41474), (69, 41480), (72, 41507), (75, 41543), (87, 41654), (92, 41714), (99, 41777), (101, 41804), (103, 41825),

Gene: Caelakin_77 Start: 47259, Stop: 46726, Start Num: 55
Candidate Starts for Caelakin_77:
(Start: 41 @47304 has 3 MA's), (46, 47271), (Start: 55 @47259 has 136 MA's), (77, 47115), (78, 47097), (79, 47088), (87, 47028), (96, 46929), (98, 46914), (104, 46866), (109, 46857),

Gene: Camara_42 Start: 26811, Stop: 27419, Start Num: 56
Candidate Starts for Camara_42:
(Start: 56 @26811 has 34 MA's), (76, 26934), (78, 26973), (80, 26997), (84, 27006), (87, 27042), (90, 27069), (96, 27141), (97, 27144), (98, 27156), (101, 27192), (102, 27213), (112, 27273), (121, 27414),

Gene: Camperdownii_76 Start: 46729, Stop: 46142, Start Num: 37
Candidate Starts for Camperdownii_76:
(Start: 37 @46729 has 1 MA's), (Start: 49 @46678 has 5 MA's), (75, 46561), (77, 46540), (87, 46453), (98, 46339), (104, 46291), (109, 46282), (112, 46261),

Gene: Candra_90 Start: 47590, Stop: 47063, Start Num: 63
Candidate Starts for Candra_90:
(28, 47710), (42, 47629), (Start: 49 @47599 has 5 MA's), (Start: 50 @47596 has 24 MA's), (Start: 61 @47593 has 25 MA's), (Start: 63 @47590 has 27 MA's), (67, 47554), (75, 47479), (77, 47458), (85, 47401), (87, 47371), (88, 47356), (96, 47272), (104, 47209), (109, 47200),

Gene: Catalina_87 Start: 47399, Stop: 46851, Start Num: 53
Candidate Starts for Catalina_87:
(Start: 53 @47399 has 24 MA's), (75, 47270), (80, 47207), (84, 47198), (87, 47162), (94, 47081), (98, 47048), (104, 47000), (109, 46991),

Gene: Catdawg_6 Start: 2146, Stop: 1556, Start Num: 51
Candidate Starts for Catdawg_6:
(Start: 51 @2146 has 31 MA's), (66, 2095), (67, 2092), (75, 2017), (77, 1993), (80, 1951), (86, 1921), (98, 1780), (102, 1729), (106, 1708),

Gene: Celestialunch_80 Start: 46591, Stop: 46028, Start Num: 49
Candidate Starts for Celestialunch_80:
(Start: 48 @46594 has 1 MA's), (Start: 49 @46591 has 5 MA's), (80, 46399), (85, 46384), (87, 46354), (94, 46273), (98, 46240), (104, 46192), (109, 46183),

Gene: CentreCat_79 Start: 47299, Stop: 46766, Start Num: 55
Candidate Starts for CentreCat_79:
(Start: 41 @47344 has 3 MA's), (46, 47311), (Start: 55 @47299 has 136 MA's), (77, 47155), (78, 47137), (79, 47128), (87, 47068), (96, 46969), (98, 46954), (104, 46906), (109, 46897),

Gene: Cerulean_81 Start: 47697, Stop: 47164, Start Num: 55
Candidate Starts for Cerulean_81:
(Start: 41 @47742 has 3 MA's), (46, 47709), (Start: 55 @47697 has 136 MA's), (77, 47553), (78, 47535), (79, 47526), (87, 47466), (96, 47367), (98, 47352), (104, 47304), (109, 47295),

Gene: ChampagnePapi_82 Start: 47699, Stop: 47166, Start Num: 55
Candidate Starts for ChampagnePapi_82:
(Start: 41 @47744 has 3 MA's), (46, 47711), (Start: 55 @47699 has 136 MA's), (77, 47555), (78, 47537), (79, 47528), (87, 47468), (96, 47369), (98, 47354), (104, 47306), (109, 47297),

Gene: Chaph_79 Start: 47270, Stop: 46737, Start Num: 55
Candidate Starts for Chaph_79:
(Start: 41 @47315 has 3 MA's), (46, 47282), (Start: 55 @47270 has 136 MA's), (77, 47126), (78, 47108), (79, 47099), (87, 47039), (96, 46940), (98, 46925), (104, 46877), (109, 46868),

Gene: Charm_80 Start: 46735, Stop: 46187, Start Num: 49
Candidate Starts for Charm_80:
(8, 47011), (13, 46930), (Start: 48 @46738 has 1 MA's), (Start: 49 @46735 has 5 MA's), (69, 46669), (75, 46606), (77, 46585), (80, 46543), (83, 46537), (85, 46528), (87, 46498), (94, 46417), (98, 46384), (104, 46336), (109, 46327),

Gene: Chartreuse_88 Start: 46891, Stop: 46364, Start Num: 63

Candidate Starts for Chartreuse_88:
(28, 47011), (42, 46930), (Start: 49 @46900 has 5 MA's), (Start: 50 @46897 has 24 MA's), (Start: 61 @46894 has 25 MA's), (Start: 63 @46891 has 27 MA's), (67, 46855), (75, 46780), (77, 46759), (85, 46702), (87, 46672), (88, 46657), (96, 46573), (104, 46510), (109, 46501),

Gene: Chevrolet_73 Start: 43404, Stop: 44189, Start Num: 64
Candidate Starts for Chevrolet_73:
(30, 43281), (Start: 36 @43323 has 6 MA's), (Start: 64 @43404 has 12 MA's), (65, 43419), (75, 43515), (87, 43626), (92, 43686), (99, 43749), (101, 43776), (103, 43797), (115, 43932), (123, 44043), (124, 44073), (125, 44103),

Gene: Chickaboom_41 Start: 27140, Stop: 27736, Start Num: 56
Candidate Starts for Chickaboom_41:
(Start: 56 @27140 has 34 MA's), (76, 27266), (78, 27305), (80, 27329), (90, 27401), (96, 27473), (97, 27476), (98, 27488), (101, 27524), (102, 27545), (108, 27575), (112, 27605), (113, 27656), (118, 27725),

Gene: Chicken_39 Start: 27483, Stop: 28082, Start Num: 56
Candidate Starts for Chicken_39:
(Start: 56 @27483 has 34 MA's), (76, 27612), (78, 27651), (80, 27675), (90, 27747), (96, 27819), (98, 27834), (101, 27870), (102, 27891), (108, 27921), (113, 28002), (118, 28071),

Gene: Chipper1996_810 Start: 52032, Stop: 52889, Start Num: 23
Candidate Starts for Chipper1996_810:
(Start: 23 @52032 has 14 MA's), (26, 52035), (Start: 36 @52089 has 6 MA's), (77, 52299), (80, 52341), (86, 52359), (101, 52536), (102, 52557), (111, 52617), (116, 52707), (119, 52764), (122, 52815),

Gene: Chocolat_80 Start: 51739, Stop: 52596, Start Num: 23
Candidate Starts for Chocolat_80:
(Start: 23 @51739 has 14 MA's), (26, 51742), (Start: 36 @51796 has 6 MA's), (77, 52006), (80, 52048), (86, 52066), (101, 52243), (102, 52264), (111, 52324), (116, 52414), (119, 52471), (122, 52522),

Gene: Chubster_81 Start: 52433, Stop: 53287, Start Num: 23
Candidate Starts for Chubster_81:
(Start: 23 @52433 has 14 MA's), (26, 52436), (Start: 36 @52490 has 6 MA's), (77, 52700), (80, 52742), (86, 52760), (101, 52937), (102, 52958), (111, 53018), (116, 53108), (119, 53165), (122, 53216),

Gene: Chupacabra_76 Start: 47045, Stop: 46506, Start Num: 50
Candidate Starts for Chupacabra_76:
(Start: 37 @47099 has 1 MA's), (Start: 50 @47045 has 24 MA's), (67, 47000), (75, 46925), (77, 46904), (87, 46817), (94, 46736), (98, 46703), (99, 46694), (104, 46655), (109, 46646), (112, 46625),

Gene: Cici_76 Start: 47066, Stop: 46533, Start Num: 55
Candidate Starts for Cici_76:
(16, 47261), (19, 47219), (29, 47183), (31, 47171), (39, 47117), (Start: 55 @47066 has 136 MA's), (78, 46904), (87, 46835), (96, 46736), (98, 46721), (104, 46673), (109, 46664),

Gene: Cintron_79 Start: 47375, Stop: 46842, Start Num: 55
Candidate Starts for Cintron_79:
(Start: 41 @47420 has 3 MA's), (46, 47387), (Start: 55 @47375 has 136 MA's), (78, 47213), (79, 47204), (87, 47144), (96, 47045), (98, 47030), (104, 46982), (109, 46973),

Gene: Citius_79 Start: 47280, Stop: 46747, Start Num: 55

Candidate Starts for Citius_79:
(Start: 41 @47325 has 3 MA's), (46, 47292), (Start: 55 @47280 has 136 MA's), (78, 47118), (79, 47109), (87, 47049), (96, 46950), (98, 46935), (104, 46887), (109, 46878),

Gene: Clarenza_78 Start: 47256, Stop: 46723, Start Num: 55
Candidate Starts for Clarenza_78:
(Start: 41 @47301 has 3 MA's), (46, 47268), (Start: 55 @47256 has 136 MA's), (77, 47112), (78, 47094), (79, 47085), (87, 47025), (96, 46926), (98, 46911), (104, 46863), (109, 46854),

Gene: CloudWang3_91 Start: 48083, Stop: 47556, Start Num: 61
Candidate Starts for CloudWang3_91:
(28, 48200), (Start: 49 @48089 has 5 MA's), (Start: 50 @48086 has 24 MA's), (Start: 61 @48083 has 25 MA's), (67, 48047), (71, 48014), (75, 47972), (85, 47894), (87, 47864), (96, 47765), (97, 47762), (98, 47750), (99, 47741), (104, 47702), (109, 47693),

Gene: Cocoaberry_79 Start: 47260, Stop: 46727, Start Num: 55
Candidate Starts for Cocoaberry_79:
(Start: 41 @47305 has 3 MA's), (46, 47272), (Start: 55 @47260 has 136 MA's), (77, 47116), (78, 47098), (79, 47089), (87, 47029), (96, 46930), (98, 46915), (104, 46867), (109, 46858),

Gene: CogOmlette_82 Start: 46811, Stop: 46263, Start Num: 53
Candidate Starts for CogOmlette_82:
(1, 47393), (28, 46934), (Start: 48 @46823 has 1 MA's), (Start: 49 @46820 has 5 MA's), (Start: 52 @46814 has 6 MA's), (Start: 53 @46811 has 24 MA's), (77, 46661), (80, 46619), (85, 46604), (87, 46574), (94, 46493), (98, 46460), (104, 46412), (109, 46403),

Gene: Colucci_82 Start: 52514, Stop: 53323, Start Num: 36
Candidate Starts for Colucci_82:
(27, 52460), (Start: 36 @52514 has 6 MA's), (43, 52529), (72, 52661), (78, 52739), (82, 52781), (86, 52796), (87, 52823), (93, 52901), (96, 52922), (101, 52973), (102, 52994), (111, 53054), (116, 53144), (119, 53201), (122, 53252),

Gene: Commander_77 Start: 47257, Stop: 46724, Start Num: 55
Candidate Starts for Commander_77:
(Start: 41 @47302 has 3 MA's), (46, 47269), (Start: 55 @47257 has 136 MA's), (77, 47113), (78, 47095), (79, 47086), (87, 47026), (96, 46927), (98, 46912), (104, 46864), (109, 46855),

Gene: Conboy_78 Start: 51521, Stop: 52378, Start Num: 23
Candidate Starts for Conboy_78:
(Start: 23 @51521 has 14 MA's), (26, 51524), (Start: 36 @51578 has 6 MA's), (77, 51788), (80, 51830), (86, 51848), (101, 52025), (102, 52046), (111, 52106), (116, 52196), (119, 52253), (122, 52304),

Gene: Connomayer_79 Start: 47259, Stop: 46726, Start Num: 55
Candidate Starts for Connomayer_79:
(Start: 41 @47304 has 3 MA's), (46, 47271), (Start: 55 @47259 has 136 MA's), (78, 47097), (79, 47088), (87, 47028), (96, 46929), (98, 46914), (104, 46866), (109, 46857),

Gene: Conquerage_83 Start: 47065, Stop: 46517, Start Num: 53
Candidate Starts for Conquerage_83:
(Start: 48 @47077 has 1 MA's), (Start: 49 @47074 has 5 MA's), (Start: 50 @47071 has 24 MA's), (Start: 53 @47065 has 24 MA's), (75, 46936), (80, 46873), (84, 46864), (87, 46828), (94, 46747), (98, 46714), (104, 46666), (109, 46657),

Gene: Cookiedough_89 Start: 48199, Stop: 47672, Start Num: 63
Candidate Starts for Cookiedough_89:
(22, 48337), (28, 48325), (Start: 49 @48214 has 5 MA's), (Start: 50 @48211 has 24 MA's), (Start: 61 @48202 has 25 MA's), (Start: 63 @48199 has 27 MA's), (67, 48163), (75, 48088), (77, 48067), (85, 48010), (87, 47980), (88, 47965), (96, 47881), (104, 47818), (109, 47809),

Gene: Corndog_7 Start: 2523, Stop: 1933, Start Num: 51
Candidate Starts for Corndog_7:
(Start: 51 @2523 has 31 MA's), (66, 2472), (67, 2469), (75, 2394), (77, 2370), (78, 2352), (86, 2298), (98, 2157), (102, 2106), (106, 2085),

Gene: Cygnet_42 Start: 27686, Stop: 28285, Start Num: 56
Candidate Starts for Cygnet_42:
(Start: 56 @27686 has 34 MA's), (74, 27803), (76, 27809), (78, 27848), (84, 27881), (87, 27917), (90, 27944), (96, 28016), (98, 28031), (101, 28067), (102, 28088),

Gene: DaVinci_87 Start: 46945, Stop: 46418, Start Num: 63
Candidate Starts for DaVinci_87:
(28, 47065), (42, 46984), (Start: 49 @46954 has 5 MA's), (Start: 50 @46951 has 24 MA's), (Start: 61 @46948 has 25 MA's), (Start: 63 @46945 has 27 MA's), (67, 46909), (75, 46834), (77, 46813), (85, 46756), (87, 46726), (88, 46711), (96, 46627), (104, 46564), (109, 46555),

Gene: DanHam62_42 Start: 26808, Stop: 27407, Start Num: 56
Candidate Starts for DanHam62_42:
(Start: 56 @26808 has 34 MA's), (76, 26931), (78, 26970), (84, 27003), (87, 27039), (90, 27066), (96, 27138), (98, 27153), (101, 27189), (102, 27210), (113, 27321), (120, 27402),

Gene: Darrell_83 Start: 46502, Stop: 45951, Start Num: 52
Candidate Starts for Darrell_83:
(28, 46628), (Start: 48 @46511 has 1 MA's), (Start: 49 @46508 has 5 MA's), (Start: 50 @46505 has 24 MA's), (Start: 52 @46502 has 6 MA's), (54, 46496), (80, 46307), (85, 46292), (87, 46262), (94, 46181), (95, 46178), (98, 46148), (104, 46100), (109, 46091),

Gene: DarthPhader_80 Start: 48059, Stop: 47520, Start Num: 63
Candidate Starts for DarthPhader_80:
(40, 48107), (Start: 63 @48059 has 27 MA's), (75, 47948), (80, 47885), (81, 47873), (84, 47867), (85, 47861), (87, 47831), (98, 47717), (109, 47660), (112, 47639),

Gene: Datway_76 Start: 47070, Stop: 46537, Start Num: 55
Candidate Starts for Datway_76:
(Start: 41 @47115 has 3 MA's), (46, 47082), (Start: 55 @47070 has 136 MA's), (75, 46947), (78, 46908), (79, 46899), (87, 46839), (96, 46740), (98, 46725), (104, 46677), (109, 46668),

Gene: Deano_76 Start: 47267, Stop: 46734, Start Num: 55
Candidate Starts for Deano_76:
(Start: 41 @47312 has 3 MA's), (46, 47279), (Start: 55 @47267 has 136 MA's), (78, 47105), (79, 47096), (87, 47036), (96, 46937), (98, 46922), (104, 46874), (109, 46865),

Gene: DelvinSonDorr_84 Start: 47163, Stop: 46627, Start Num: 49
Candidate Starts for DelvinSonDorr_84:
(28, 47274), (42, 47193), (Start: 49 @47163 has 5 MA's), (Start: 50 @47160 has 24 MA's), (Start: 61 @47157 has 25 MA's), (Start: 63 @47154 has 27 MA's), (67, 47118), (71, 47085), (75, 47043), (77, 47022), (85, 46965), (87, 46935), (88, 46920), (96, 46836), (104, 46773), (109, 46764),

Gene: Dhanush_79 Start: 47262, Stop: 46729, Start Num: 55
Candidate Starts for Dhanush_79:
(Start: 41 @47307 has 3 MA's), (46, 47274), (Start: 55 @47262 has 136 MA's), (77, 47118), (78, 47100), (79, 47091), (87, 47031), (96, 46932), (98, 46917), (104, 46869), (109, 46860),

Gene: DirtyDunning_78 Start: 47271, Stop: 46738, Start Num: 55
Candidate Starts for DirtyDunning_78:
(Start: 41 @47316 has 3 MA's), (46, 47283), (Start: 55 @47271 has 136 MA's), (77, 47127), (78, 47109), (79, 47100), (87, 47040), (96, 46941), (98, 46926), (104, 46878), (109, 46869),

Gene: DontArgue_74 Start: 45905, Stop: 45366, Start Num: 57
Candidate Starts for DontArgue_74:
(Start: 37 @45965 has 1 MA's), (Start: 57 @45905 has 2 MA's), (67, 45860), (75, 45785), (85, 45707), (87, 45677), (98, 45563), (104, 45515), (109, 45506), (112, 45485),

Gene: Dorothea_89 Start: 48194, Stop: 47664, Start Num: 61
Candidate Starts for Dorothea_89:
(22, 48329), (28, 48317), (Start: 49 @48206 has 5 MA's), (Start: 50 @48203 has 24 MA's), (Start: 61 @48194 has 25 MA's), (Start: 63 @48191 has 27 MA's), (67, 48155), (75, 48080), (77, 48059), (85, 48002), (87, 47972), (88, 47957), (96, 47873), (104, 47810), (109, 47801),

Gene: Dorothy_71 Start: 44271, Stop: 44831, Start Num: 64
Candidate Starts for Dorothy_71:
(34, 44190), (Start: 64 @44271 has 12 MA's), (72, 44346), (75, 44382), (77, 44406), (87, 44493), (96, 44592), (97, 44595), (99, 44616), (101, 44643), (103, 44664),

Gene: DrYang_77 Start: 52275, Stop: 53081, Start Num: 36
Candidate Starts for DrYang_77:
(20, 52197), (Start: 36 @52275 has 6 MA's), (43, 52290), (78, 52500), (80, 52524), (86, 52542), (93, 52647), (101, 52719), (106, 52761), (111, 52800), (116, 52890), (119, 52947), (122, 52998),

Gene: Drake94_76 Start: 46202, Stop: 45663, Start Num: 50
Candidate Starts for Drake94_76:
(6, 46538), (15, 46403), (18, 46361), (25, 46325), (38, 46253), (40, 46247), (Start: 50 @46202 has 24 MA's), (67, 46157), (75, 46082), (85, 46004), (87, 45974), (98, 45860), (104, 45812), (109, 45803), (112, 45782),

Gene: DreamTeam1_80 Start: 46583, Stop: 46035, Start Num: 49
Candidate Starts for DreamTeam1_80:
(8, 46859), (13, 46778), (Start: 48 @46586 has 1 MA's), (Start: 49 @46583 has 5 MA's), (69, 46517), (75, 46454), (80, 46391), (83, 46385), (85, 46376), (87, 46346), (94, 46265), (98, 46232), (104, 46184), (109, 46175),

Gene: Druantia_78 Start: 47262, Stop: 46729, Start Num: 55
Candidate Starts for Druantia_78:
(16, 47457), (19, 47415), (29, 47379), (31, 47367), (39, 47313), (Start: 55 @47262 has 136 MA's), (77, 47118), (78, 47100), (79, 47091), (87, 47031), (96, 46932), (98, 46917), (104, 46869), (109, 46860),

Gene: DustyMartin_81 Start: 47188, Stop: 46649, Start Num: 57
Candidate Starts for DustyMartin_81:
(Start: 37 @47248 has 1 MA's), (Start: 57 @47188 has 2 MA's), (67, 47143), (75, 47068), (77, 47047), (85, 46990), (87, 46960), (94, 46879), (98, 46846), (99, 46837), (104, 46798), (109, 46789), (112,

46768),

Gene: Dylan_7 Start: 2545, Stop: 1955, Start Num: 51
Candidate Starts for Dylan_7:
(Start: 51 @2545 has 31 MA's), (66, 2494), (67, 2491), (75, 2416), (77, 2392), (78, 2374), (86, 2320), (98, 2179), (102, 2128), (106, 2107),

Gene: Eagle_78 Start: 47321, Stop: 46788, Start Num: 55
Candidate Starts for Eagle_78:
(Start: 41 @47366 has 3 MA's), (46, 47333), (Start: 55 @47321 has 136 MA's), (77, 47177), (78, 47159), (79, 47150), (87, 47090), (96, 46991), (98, 46976), (104, 46928), (109, 46919),

Gene: EagleEye_89 Start: 49182, Stop: 48643, Start Num: 57
Candidate Starts for EagleEye_89:
(Start: 57 @49182 has 2 MA's), (Start: 58 @49179 has 1 MA's), (67, 49137), (75, 49062), (85, 48984), (87, 48954), (88, 48939), (94, 48873), (98, 48840), (104, 48792), (109, 48783), (112, 48762),

Gene: Eaglepride_82 Start: 47125, Stop: 46586, Start Num: 50
Candidate Starts for Eaglepride_82:
(Start: 37 @47179 has 1 MA's), (Start: 50 @47125 has 24 MA's), (67, 47080), (77, 46984), (87, 46897), (98, 46783), (104, 46735), (109, 46726), (112, 46705),

Gene: Eapen_79 Start: 47254, Stop: 46721, Start Num: 55
Candidate Starts for Eapen_79:
(Start: 41 @47299 has 3 MA's), (46, 47266), (Start: 55 @47254 has 136 MA's), (77, 47110), (78, 47092), (79, 47083), (87, 47023), (96, 46924), (98, 46909), (104, 46861), (109, 46852),

Gene: EdgarPoe_79 Start: 51896, Stop: 52753, Start Num: 23
Candidate Starts for EdgarPoe_79:
(Start: 23 @51896 has 14 MA's), (26, 51899), (Start: 36 @51953 has 6 MA's), (77, 52163), (80, 52205), (86, 52223), (89, 52271), (90, 52277), (101, 52400), (102, 52421), (111, 52481), (116, 52571), (119, 52628), (122, 52679),

Gene: EdogawaKiddo_85 Start: 47367, Stop: 46819, Start Num: 53
Candidate Starts for EdogawaKiddo_85:
(Start: 48 @47379 has 1 MA's), (Start: 49 @47376 has 5 MA's), (Start: 50 @47373 has 24 MA's), (Start: 53 @47367 has 24 MA's), (75, 47238), (80, 47175), (84, 47166), (87, 47130), (94, 47049), (98, 47016), (104, 46968), (109, 46959),

Gene: Eesa_39 Start: 28022, Stop: 28654, Start Num: 56
Candidate Starts for Eesa_39:
(Start: 56 @28022 has 34 MA's), (76, 28151), (78, 28190), (80, 28214), (90, 28286), (96, 28358), (98, 28373), (101, 28409), (102, 28430), (108, 28460), (113, 28541),

Gene: Eidsmoe_83 Start: 47063, Stop: 46509, Start Num: 50
Candidate Starts for Eidsmoe_83:
(Start: 48 @47069 has 1 MA's), (Start: 49 @47066 has 5 MA's), (Start: 50 @47063 has 24 MA's), (Start: 53 @47057 has 24 MA's), (75, 46928), (80, 46865), (84, 46856), (87, 46820), (94, 46739), (98, 46706), (104, 46658), (109, 46649),

Gene: Elephantoon_85 Start: 47218, Stop: 46667, Start Num: 52
Candidate Starts for Elephantoon_85:

(10, 47509), (28, 47347), (Start: 48 @47230 has 1 MA's), (Start: 49 @47227 has 5 MA's), (Start: 50 @47224 has 24 MA's), (Start: 51 @47221 has 31 MA's), (Start: 52 @47218 has 6 MA's), (80, 47023), (85, 47008), (87, 46978), (94, 46897), (98, 46864), (104, 46816), (109, 46807),

Gene: EmiMonkey_66 Start: 47129, Stop: 47779, Start Num: 64
Candidate Starts for EmiMonkey_66:
(12, 46880), (14, 46910), (30, 47006), (Start: 36 @47048 has 6 MA's), (Start: 64 @47129 has 12 MA's), (65, 47144), (75, 47240), (77, 47264), (87, 47351), (92, 47411), (98, 47465), (99, 47474), (101, 47501), (103, 47522), (115, 47657),

Gene: EmyBug_82 Start: 47065, Stop: 46511, Start Num: 50
Candidate Starts for EmyBug_82:
(Start: 48 @47071 has 1 MA's), (Start: 49 @47068 has 5 MA's), (Start: 50 @47065 has 24 MA's), (Start: 53 @47059 has 24 MA's), (75, 46930), (80, 46867), (84, 46858), (87, 46822), (94, 46741), (98, 46708), (104, 46660), (109, 46651),

Gene: EricB_87 Start: 47088, Stop: 46561, Start Num: 63
Candidate Starts for EricB_87:
(28, 47214), (Start: 61 @47091 has 25 MA's), (Start: 63 @47088 has 27 MA's), (67, 47052), (71, 47019), (75, 46977), (77, 46956), (85, 46899), (87, 46869), (88, 46854), (96, 46770), (104, 46707), (109, 46698),

Gene: Eris_78 Start: 47271, Stop: 46738, Start Num: 55
Candidate Starts for Eris_78:
(Start: 41 @47316 has 3 MA's), (46, 47283), (Start: 55 @47271 has 136 MA's), (77, 47127), (78, 47109), (79, 47100), (87, 47040), (96, 46941), (98, 46926), (104, 46878), (109, 46869),

Gene: Eros_79 Start: 47261, Stop: 46728, Start Num: 55
Candidate Starts for Eros_79:
(Start: 41 @47306 has 3 MA's), (46, 47273), (Start: 55 @47261 has 136 MA's), (78, 47099), (79, 47090), (87, 47030), (96, 46931), (98, 46916), (104, 46868), (109, 46859),

Gene: Eurydice_80 Start: 47296, Stop: 46763, Start Num: 55
Candidate Starts for Eurydice_80:
(Start: 41 @47341 has 3 MA's), (46, 47308), (Start: 55 @47296 has 136 MA's), (77, 47152), (78, 47134), (79, 47125), (87, 47065), (96, 46966), (98, 46951), (104, 46903), (109, 46894),

Gene: ExplosioNervosa_83 Start: 47125, Stop: 46577, Start Num: 53
Candidate Starts for ExplosioNervosa_83:
(Start: 48 @47137 has 1 MA's), (Start: 49 @47134 has 5 MA's), (Start: 50 @47131 has 24 MA's), (Start: 53 @47125 has 24 MA's), (75, 46996), (80, 46933), (84, 46924), (87, 46888), (94, 46807), (98, 46774), (104, 46726), (109, 46717),

Gene: Familton_7 Start: 2147, Stop: 1557, Start Num: 51
Candidate Starts for Familton_7:
(Start: 51 @2147 has 31 MA's), (66, 2096), (67, 2093), (75, 2018), (77, 1994), (80, 1952), (86, 1922), (98, 1781), (102, 1730), (106, 1709),

Gene: FatCactus_79 Start: 47335, Stop: 46769, Start Num: 61
Candidate Starts for FatCactus_79:
(Start: 61 @47335 has 25 MA's), (67, 47296), (75, 47221), (79, 47173), (80, 47158), (87, 47113), (97, 47011), (98, 46999), (102, 46957), (105, 46939), (106, 46936), (112, 46894),

Gene: Fayely_83 Start: 47032, Stop: 46484, Start Num: 53
Candidate Starts for Fayely_83:
(Start: 53 @47032 has 24 MA's), (75, 46903), (80, 46840), (84, 46831), (87, 46795), (94, 46714), (98, 46681), (104, 46633), (109, 46624),

Gene: Fingolfin_42 Start: 26811, Stop: 27410, Start Num: 56
Candidate Starts for Fingolfin_42:
(Start: 56 @26811 has 34 MA's), (76, 26934), (78, 26973), (84, 27006), (87, 27042), (90, 27069), (96, 27141), (98, 27156), (101, 27192), (102, 27213), (113, 27324), (120, 27405),

Gene: Firecracker_6 Start: 2232, Stop: 1642, Start Num: 51
Candidate Starts for Firecracker_6:
(Start: 51 @2232 has 31 MA's), (66, 2181), (67, 2178), (75, 2103), (77, 2079), (78, 2061), (86, 2007), (98, 1866), (102, 1815), (106, 1794),

Gene: Florean_79 Start: 47258, Stop: 46725, Start Num: 55
Candidate Starts for Florean_79:
(Start: 41 @47303 has 3 MA's), (46, 47270), (Start: 55 @47258 has 136 MA's), (78, 47096), (79, 47087), (87, 47027), (96, 46928), (98, 46913), (104, 46865), (109, 46856),

Gene: Flux_80 Start: 47257, Stop: 46724, Start Num: 55
Candidate Starts for Flux_80:
(Start: 41 @47302 has 3 MA's), (46, 47269), (Start: 55 @47257 has 136 MA's), (78, 47095), (79, 47086), (87, 47026), (96, 46927), (98, 46912), (104, 46864), (109, 46855),

Gene: FoulBall_6 Start: 2147, Stop: 1557, Start Num: 51
Candidate Starts for FoulBall_6:
(Start: 51 @2147 has 31 MA's), (66, 2096), (67, 2093), (75, 2018), (77, 1994), (80, 1952), (86, 1922), (98, 1781), (102, 1730), (106, 1709),

Gene: Funston_78 Start: 47256, Stop: 46723, Start Num: 55
Candidate Starts for Funston_78:
(Start: 41 @47301 has 3 MA's), (46, 47268), (Start: 55 @47256 has 136 MA's), (77, 47112), (78, 47094), (79, 47085), (87, 47025), (96, 46926), (98, 46911), (104, 46863), (109, 46854),

Gene: Gadost_79 Start: 47260, Stop: 46727, Start Num: 55
Candidate Starts for Gadost_79:
(Start: 41 @47305 has 3 MA's), (46, 47272), (Start: 55 @47260 has 136 MA's), (77, 47116), (78, 47098), (79, 47089), (87, 47029), (96, 46930), (98, 46915), (104, 46867), (109, 46858),

Gene: Garak_92 Start: 48028, Stop: 47501, Start Num: 61
Candidate Starts for Garak_92:
(28, 48145), (Start: 49 @48034 has 5 MA's), (Start: 50 @48031 has 24 MA's), (Start: 61 @48028 has 25 MA's), (67, 47992), (71, 47959), (75, 47917), (85, 47839), (87, 47809), (96, 47710), (97, 47707), (98, 47695), (99, 47686), (104, 47647), (109, 47638),

Gene: GaugeLDP_82 Start: 49074, Stop: 48544, Start Num: 61
Candidate Starts for GaugeLDP_82:
(Start: 49 @49080 has 5 MA's), (Start: 61 @49074 has 25 MA's), (73, 48984), (74, 48966), (75, 48963), (77, 48942), (87, 48855), (96, 48756), (98, 48741), (104, 48693), (109, 48684), (112, 48663),

Gene: Gladiator_87 Start: 47742, Stop: 47212, Start Num: 61
Candidate Starts for Gladiator_87:

(28, 47865), (Start: 61 @47742 has 25 MA's), (Start: 63 @47739 has 27 MA's), (67, 47703), (71, 47670), (75, 47628), (85, 47550), (87, 47520), (96, 47421), (97, 47418), (98, 47406), (99, 47397), (104, 47358), (109, 47349),

Gene: Glotell_43 Start: 26967, Stop: 27575, Start Num: 56
Candidate Starts for Glotell_43:
(Start: 56 @26967 has 34 MA's), (76, 27090), (78, 27129), (80, 27153), (84, 27162), (87, 27198), (90, 27225), (96, 27297), (97, 27300), (98, 27312), (101, 27348), (102, 27369), (112, 27429), (121, 27570),

Gene: Goose_80 Start: 46856, Stop: 46317, Start Num: 50
Candidate Starts for Goose_80:
(Start: 37 @46910 has 1 MA's), (Start: 50 @46856 has 24 MA's), (67, 46811), (70, 46790), (75, 46736), (77, 46715), (87, 46628), (94, 46547), (98, 46514), (99, 46505), (104, 46466), (109, 46457), (112, 46436),

Gene: Gravel_49 Start: 27995, Stop: 28594, Start Num: 56
Candidate Starts for Gravel_49:
(Start: 56 @27995 has 34 MA's), (70, 28067), (76, 28124), (78, 28163), (80, 28187), (90, 28259), (96, 28331), (98, 28346), (101, 28382), (102, 28403), (108, 28433), (113, 28514), (118, 28583),

Gene: GreedyLawyer_82 Start: 47521, Stop: 46994, Start Num: 63
Candidate Starts for GreedyLawyer_82:
(22, 47659), (28, 47647), (Start: 49 @47536 has 5 MA's), (Start: 50 @47533 has 24 MA's), (Start: 61 @47524 has 25 MA's), (Start: 63 @47521 has 27 MA's), (67, 47485), (75, 47410), (77, 47389), (85, 47332), (87, 47302), (88, 47287), (96, 47203), (104, 47140), (109, 47131),

Gene: Gruunaga_90 Start: 47694, Stop: 47167, Start Num: 63
Candidate Starts for Gruunaga_90:
(28, 47820), (Start: 61 @47697 has 25 MA's), (Start: 63 @47694 has 27 MA's), (67, 47658), (71, 47625), (75, 47583), (85, 47505), (87, 47475), (96, 47376), (97, 47373), (98, 47361), (99, 47352), (104, 47313), (109, 47304),

Gene: HamCheese_42 Start: 26795, Stop: 27394, Start Num: 56
Candidate Starts for HamCheese_42:
(Start: 56 @26795 has 34 MA's), (76, 26918), (78, 26957), (84, 26990), (87, 27026), (90, 27053), (96, 27125), (98, 27140), (101, 27176), (102, 27197), (113, 27308), (120, 27389),

Gene: HamSlice_75 Start: 47258, Stop: 46725, Start Num: 55
Candidate Starts for HamSlice_75:
(Start: 41 @47303 has 3 MA's), (46, 47270), (Start: 55 @47258 has 136 MA's), (78, 47096), (79, 47087), (87, 47027), (96, 46928), (98, 46913), (104, 46865), (109, 46856),

Gene: Hammer_91 Start: 47404, Stop: 46874, Start Num: 50
Candidate Starts for Hammer_91:
(28, 47518), (Start: 49 @47407 has 5 MA's), (Start: 50 @47404 has 24 MA's), (Start: 61 @47401 has 25 MA's), (67, 47365), (71, 47332), (75, 47290), (85, 47212), (87, 47182), (96, 47083), (97, 47080), (98, 47068), (99, 47059), (104, 47020), (109, 47011),

Gene: Hanray_85 Start: 47349, Stop: 46795, Start Num: 50
Candidate Starts for Hanray_85:
(Start: 48 @47355 has 1 MA's), (Start: 49 @47352 has 5 MA's), (Start: 50 @47349 has 24 MA's), (Start: 53 @47343 has 24 MA's), (75, 47214), (80, 47151), (84, 47142), (87, 47106), (94, 47025), (98, 46992), (104, 46944), (109, 46935),

Gene: Happiness_78 Start: 47282, Stop: 46749, Start Num: 55
Candidate Starts for Happiness_78:
(Start: 41 @47327 has 3 MA's), (46, 47294), (Start: 55 @47282 has 136 MA's), (77, 47138), (78, 47120), (79, 47111), (86, 47078), (87, 47051), (96, 46952), (98, 46937), (104, 46889), (109, 46880),

Gene: Helmet_93 Start: 48028, Stop: 47501, Start Num: 61
Candidate Starts for Helmet_93:
(28, 48145), (Start: 49 @48034 has 5 MA's), (Start: 50 @48031 has 24 MA's), (Start: 61 @48028 has 25 MA's), (67, 47992), (71, 47959), (75, 47917), (85, 47839), (87, 47809), (96, 47710), (97, 47707), (98, 47695), (99, 47686), (104, 47647), (109, 47638),

Gene: Hexamo_90 Start: 47569, Stop: 47042, Start Num: 61
Candidate Starts for Hexamo_90:
(28, 47686), (Start: 49 @47575 has 5 MA's), (Start: 50 @47572 has 24 MA's), (Start: 61 @47569 has 25 MA's), (67, 47533), (71, 47500), (75, 47458), (85, 47380), (87, 47350), (96, 47251), (97, 47248), (98, 47236), (99, 47227), (104, 47188), (109, 47179),

Gene: Holex_85 Start: 47365, Stop: 46811, Start Num: 50
Candidate Starts for Holex_85:
(Start: 48 @47371 has 1 MA's), (Start: 49 @47368 has 5 MA's), (Start: 50 @47365 has 24 MA's), (Start: 53 @47359 has 24 MA's), (75, 47230), (80, 47167), (84, 47158), (87, 47122), (94, 47041), (98, 47008), (104, 46960), (109, 46951),

Gene: Holli_78 Start: 47049, Stop: 46516, Start Num: 55
Candidate Starts for Holli_78:
(Start: 41 @47094 has 3 MA's), (46, 47061), (Start: 55 @47049 has 136 MA's), (78, 46887), (79, 46878), (87, 46818), (96, 46719), (98, 46704), (104, 46656), (109, 46647),

Gene: Hoot_84 Start: 45405, Stop: 44878, Start Num: 63
Candidate Starts for Hoot_84:
(22, 45543), (28, 45531), (Start: 49 @45420 has 5 MA's), (Start: 50 @45417 has 24 MA's), (Start: 61 @45408 has 25 MA's), (Start: 63 @45405 has 27 MA's), (67, 45369), (71, 45336), (75, 45294), (85, 45216), (87, 45186), (96, 45087), (97, 45084), (104, 45024), (109, 45015),

Gene: HortumSL17_86 Start: 47397, Stop: 46849, Start Num: 53
Candidate Starts for HortumSL17_86:
(Start: 53 @47397 has 24 MA's), (75, 47268), (80, 47205), (84, 47196), (87, 47160), (94, 47079), (98, 47046), (104, 46998), (109, 46989),

Gene: Houdini22_78 Start: 47260, Stop: 46727, Start Num: 55
Candidate Starts for Houdini22_78:
(Start: 41 @47305 has 3 MA's), (46, 47272), (Start: 55 @47260 has 136 MA's), (77, 47116), (78, 47098), (79, 47089), (87, 47029), (96, 46930), (98, 46915), (104, 46867), (109, 46858),

Gene: HumptyDumpty_80 Start: 51699, Stop: 52556, Start Num: 23
Candidate Starts for HumptyDumpty_80:
(Start: 23 @51699 has 14 MA's), (26, 51702), (Start: 36 @51756 has 6 MA's), (77, 51966), (80, 52008), (86, 52026), (101, 52203), (102, 52224), (111, 52284), (116, 52374), (119, 52431), (122, 52482),

Gene: Huxley_71 Start: 45152, Stop: 44619, Start Num: 55
Candidate Starts for Huxley_71:

(Start: 41 @45197 has 3 MA's), (46, 45164), (Start: 55 @45152 has 136 MA's), (67, 45104), (77, 45008), (78, 44990), (79, 44981), (87, 44921), (96, 44822), (98, 44807), (104, 44759), (109, 44750),

Gene: ICleared_78 Start: 47327, Stop: 46794, Start Num: 55
Candidate Starts for ICleared_78:
(Start: 41 @47372 has 3 MA's), (46, 47339), (Start: 55 @47327 has 136 MA's), (77, 47183), (78, 47165), (79, 47156), (87, 47096), (96, 46997), (98, 46982), (104, 46934), (109, 46925),

Gene: Iceman_77 Start: 47549, Stop: 47016, Start Num: 55
Candidate Starts for Iceman_77:
(Start: 41 @47594 has 3 MA's), (46, 47561), (Start: 55 @47549 has 136 MA's), (77, 47405), (78, 47387), (79, 47378), (87, 47318), (96, 47219), (98, 47204), (104, 47156), (109, 47147),

Gene: Idergollasper_6 Start: 2147, Stop: 1557, Start Num: 51
Candidate Starts for Idergollasper_6:
(Start: 51 @2147 has 31 MA's), (66, 2096), (67, 2093), (75, 2018), (77, 1994), (80, 1952), (86, 1922), (98, 1781), (102, 1730), (106, 1709),

Gene: Imara_6 Start: 2232, Stop: 1642, Start Num: 51
Candidate Starts for Imara_6:
(Start: 51 @2232 has 31 MA's), (66, 2181), (75, 2103), (77, 2079), (78, 2061), (86, 2007), (98, 1866), (102, 1815), (106, 1794),

Gene: Imbriano_90 Start: 48393, Stop: 47866, Start Num: 63
Candidate Starts for Imbriano_90:
(22, 48531), (28, 48519), (Start: 49 @48408 has 5 MA's), (Start: 50 @48405 has 24 MA's), (Start: 61 @48396 has 25 MA's), (Start: 63 @48393 has 27 MA's), (67, 48357), (75, 48282), (77, 48261), (85, 48204), (87, 48174), (88, 48159), (96, 48075), (104, 48012), (109, 48003),

Gene: Indra_94 Start: 48029, Stop: 47502, Start Num: 61
Candidate Starts for Indra_94:
(28, 48146), (Start: 49 @48035 has 5 MA's), (Start: 50 @48032 has 24 MA's), (Start: 61 @48029 has 25 MA's), (67, 47993), (71, 47960), (75, 47918), (85, 47840), (87, 47810), (96, 47711), (97, 47708), (98, 47696), (99, 47687), (104, 47648), (109, 47639),

Gene: Inventum_68 Start: 44469, Stop: 45092, Start Num: 64
Candidate Starts for Inventum_68:
(34, 44388), (Start: 64 @44469 has 12 MA's), (72, 44544), (75, 44580), (77, 44604), (87, 44691), (96, 44790), (97, 44793), (99, 44814), (101, 44841), (103, 44862),

Gene: Iracema64_79 Start: 47523, Stop: 46990, Start Num: 55
Candidate Starts for Iracema64_79:
(Start: 41 @47568 has 3 MA's), (46, 47535), (Start: 55 @47523 has 136 MA's), (77, 47379), (78, 47361), (79, 47352), (87, 47292), (96, 47193), (98, 47178), (104, 47130), (109, 47121),

Gene: Isiphiwo_85 Start: 47116, Stop: 46589, Start Num: 63
Candidate Starts for Isiphiwo_85:
(28, 47236), (42, 47155), (Start: 49 @47125 has 5 MA's), (Start: 50 @47122 has 24 MA's), (Start: 61 @47119 has 25 MA's), (Start: 63 @47116 has 27 MA's), (67, 47080), (75, 47005), (77, 46984), (85, 46927), (87, 46897), (88, 46882), (96, 46798), (104, 46735), (109, 46726),

Gene: JaNo_79 Start: 51670, Stop: 52527, Start Num: 23
Candidate Starts for JaNo_79:

(Start: 23 @51670 has 14 MA's), (26, 51673), (Start: 36 @51727 has 6 MA's), (77, 51937), (80, 51979), (86, 51997), (101, 52174), (102, 52195), (111, 52255), (116, 52345), (119, 52402), (122, 52453),

Gene: Jamun_39 Start: 27180, Stop: 27779, Start Num: 56
Candidate Starts for Jamun_39:
(Start: 56 @27180 has 34 MA's), (76, 27309), (78, 27348), (80, 27372), (87, 27417), (90, 27444), (96, 27516), (98, 27531), (101, 27567), (102, 27588), (108, 27618), (113, 27699), (118, 27768),

Gene: JangDynasty_6 Start: 2236, Stop: 1646, Start Num: 51
Candidate Starts for JangDynasty_6:
(Start: 51 @2236 has 31 MA's), (66, 2185), (67, 2182), (75, 2107), (77, 2083), (80, 2041), (86, 2011), (98, 1870), (102, 1819), (106, 1798),

Gene: JayCookie_80 Start: 52232, Stop: 53089, Start Num: 23
Candidate Starts for JayCookie_80:
(Start: 23 @52232 has 14 MA's), (26, 52235), (Start: 36 @52289 has 6 MA's), (77, 52499), (80, 52541), (86, 52559), (101, 52736), (107, 52784), (116, 52907), (119, 52964), (122, 53015),

Gene: Jaykayelowell_76 Start: 47252, Stop: 46719, Start Num: 55
Candidate Starts for Jaykayelowell_76:
(Start: 41 @47297 has 3 MA's), (46, 47264), (Start: 55 @47252 has 136 MA's), (78, 47090), (79, 47081), (87, 47021), (96, 46922), (98, 46907), (104, 46859), (109, 46850),

Gene: Jeffabunny_79 Start: 44172, Stop: 43645, Start Num: 61
Candidate Starts for Jeffabunny_79:
(28, 44289), (Start: 49 @44178 has 5 MA's), (Start: 50 @44175 has 24 MA's), (Start: 61 @44172 has 25 MA's), (67, 44136), (71, 44103), (75, 44061), (85, 43983), (87, 43953), (96, 43854), (97, 43851), (98, 43839), (99, 43830), (104, 43791), (109, 43782),

Gene: JetBlade_80 Start: 47287, Stop: 46754, Start Num: 55
Candidate Starts for JetBlade_80:
(Start: 41 @47332 has 3 MA's), (46, 47299), (Start: 55 @47287 has 136 MA's), (77, 47143), (78, 47125), (79, 47116), (87, 47056), (96, 46957), (98, 46942), (104, 46894), (109, 46885),

Gene: JewelBug_81 Start: 45884, Stop: 45357, Start Num: 63
Candidate Starts for JewelBug_81:
(22, 46022), (28, 46010), (Start: 49 @45899 has 5 MA's), (Start: 50 @45896 has 24 MA's), (Start: 61 @45887 has 25 MA's), (Start: 63 @45884 has 27 MA's), (67, 45848), (75, 45773), (77, 45752), (85, 45695), (87, 45665), (88, 45650), (96, 45566), (104, 45503), (109, 45494),

Gene: Jiawan_85 Start: 47375, Stop: 46827, Start Num: 53
Candidate Starts for Jiawan_85:
(Start: 53 @47375 has 24 MA's), (75, 47246), (80, 47183), (84, 47174), (87, 47138), (94, 47057), (98, 47024), (104, 46976), (109, 46967),

Gene: JoongJeon_78 Start: 47253, Stop: 46720, Start Num: 55
Candidate Starts for JoongJeon_78:
(Start: 41 @47298 has 3 MA's), (46, 47265), (Start: 55 @47253 has 136 MA's), (77, 47109), (78, 47091), (79, 47082), (87, 47022), (96, 46923), (98, 46908), (104, 46860), (109, 46851),

Gene: Jordennis_87 Start: 47791, Stop: 47261, Start Num: 61
Candidate Starts for Jordennis_87:

(22, 47926), (28, 47914), (Start: 49 @47803 has 5 MA's), (Start: 50 @47800 has 24 MA's), (Start: 61 @47791 has 25 MA's), (Start: 63 @47788 has 27 MA's), (67, 47752), (75, 47677), (77, 47656), (85, 47599), (87, 47569), (88, 47554), (96, 47470), (104, 47407), (109, 47398),

Gene: Junimo_75 Start: 47259, Stop: 46726, Start Num: 55
Candidate Starts for Junimo_75:
(Start: 41 @47304 has 3 MA's), (46, 47271), (Start: 55 @47259 has 136 MA's), (78, 47097), (79, 47088), (87, 47028), (96, 46929), (98, 46914), (104, 46866), (109, 46857),

Gene: Juno112_41 Start: 26811, Stop: 27410, Start Num: 56
Candidate Starts for Juno112_41:
(Start: 56 @26811 has 34 MA's), (76, 26934), (78, 26973), (84, 27006), (87, 27042), (90, 27069), (96, 27141), (98, 27156), (101, 27192), (102, 27213), (113, 27324), (120, 27405),

Gene: KBurrousTX_79 Start: 53874, Stop: 54680, Start Num: 36
Candidate Starts for KBurrousTX_79:
(Start: 36 @53874 has 6 MA's), (80, 54123), (86, 54141), (87, 54168), (90, 54195), (93, 54246), (96, 54267), (100, 54309), (101, 54318), (111, 54399), (116, 54489), (119, 54546), (122, 54597),

Gene: KFPoly_78 Start: 47253, Stop: 46720, Start Num: 55
Candidate Starts for KFPoly_78:
(Start: 41 @47298 has 3 MA's), (46, 47265), (Start: 55 @47253 has 136 MA's), (77, 47109), (78, 47091), (79, 47082), (87, 47022), (96, 46923), (98, 46908), (104, 46860), (109, 46851),

Gene: KHumphrey_42 Start: 26810, Stop: 27418, Start Num: 56
Candidate Starts for KHumphrey_42:
(Start: 56 @26810 has 34 MA's), (76, 26933), (78, 26972), (80, 26996), (84, 27005), (87, 27041), (90, 27068), (96, 27140), (97, 27143), (98, 27155), (101, 27191), (102, 27212), (112, 27272), (121, 27413),

Gene: Kabreeze_80 Start: 51756, Stop: 52613, Start Num: 23
Candidate Starts for Kabreeze_80:
(Start: 23 @51756 has 14 MA's), (26, 51759), (Start: 36 @51813 has 6 MA's), (77, 52023), (80, 52065), (86, 52083), (101, 52260), (102, 52281), (111, 52341), (116, 52431), (119, 52488), (122, 52539),

Gene: Kampy_78 Start: 47262, Stop: 46729, Start Num: 55
Candidate Starts for Kampy_78:
(Start: 41 @47307 has 3 MA's), (46, 47274), (Start: 55 @47262 has 136 MA's), (77, 47118), (78, 47100), (79, 47091), (87, 47031), (96, 46932), (98, 46917), (104, 46869), (109, 46860),

Gene: Katalie136_76 Start: 47053, Stop: 46520, Start Num: 55
Candidate Starts for Katalie136_76:
(16, 47248), (19, 47206), (29, 47170), (31, 47158), (39, 47104), (Start: 55 @47053 has 136 MA's), (78, 46891), (87, 46822), (96, 46723), (98, 46708), (104, 46660), (109, 46651),

Gene: Kazan_90 Start: 47560, Stop: 47033, Start Num: 63
Candidate Starts for Kazan_90:
(28, 47680), (42, 47599), (Start: 49 @47569 has 5 MA's), (Start: 50 @47566 has 24 MA's), (Start: 61 @47563 has 25 MA's), (Start: 63 @47560 has 27 MA's), (67, 47524), (75, 47449), (77, 47428), (85, 47371), (87, 47341), (88, 47326), (96, 47242), (104, 47179), (109, 47170),

Gene: KekoraPapaka_76 Start: 47271, Stop: 46726, Start Num: 46
Candidate Starts for KekoraPapaka_76:

(Start: 41 @47304 has 3 MA's), (46, 47271), (Start: 55 @47259 has 136 MA's), (77, 47115), (78, 47097), (79, 47088), (87, 47028), (96, 46929), (98, 46914), (104, 46866), (109, 46857),

Gene: KendraB23_50 Start: 28188, Stop: 28781, Start Num: 56
Candidate Starts for KendraB23_50:
(Start: 56 @28188 has 34 MA's), (70, 28254), (76, 28311), (78, 28350), (80, 28374), (90, 28446), (96, 28518), (98, 28533), (101, 28569), (102, 28590), (108, 28620), (113, 28701), (118, 28770),

Gene: Keziacharles14_82 Start: 47898, Stop: 47347, Start Num: 50
Candidate Starts for Keziacharles14_82:
(Start: 50 @47898 has 24 MA's), (Start: 53 @47895 has 24 MA's), (77, 47745), (80, 47703), (85, 47688), (87, 47658), (94, 47577), (95, 47574), (98, 47544), (104, 47496), (109, 47487),

Gene: KingPhillip3_6 Start: 2147, Stop: 1557, Start Num: 51
Candidate Starts for KingPhillip3_6:
(Start: 51 @2147 has 31 MA's), (66, 2096), (67, 2093), (75, 2018), (77, 1994), (80, 1952), (86, 1922), (98, 1781), (102, 1730), (106, 1709),

Gene: Kingmustik0402_79 Start: 47248, Stop: 46715, Start Num: 55
Candidate Starts for Kingmustik0402_79:
(Start: 41 @47293 has 3 MA's), (46, 47260), (Start: 55 @47248 has 136 MA's), (77, 47104), (78, 47086), (79, 47077), (87, 47017), (96, 46918), (98, 46903), (104, 46855), (109, 46846),

Gene: Kipper29_89 Start: 47563, Stop: 47036, Start Num: 63
Candidate Starts for Kipper29_89:
(22, 47701), (28, 47689), (Start: 49 @47578 has 5 MA's), (Start: 50 @47575 has 24 MA's), (Start: 61 @47566 has 25 MA's), (Start: 63 @47563 has 27 MA's), (67, 47527), (75, 47452), (77, 47431), (85, 47374), (87, 47344), (88, 47329), (96, 47245), (104, 47182), (109, 47173),

Gene: KittenMittens_75 Start: 46212, Stop: 45673, Start Num: 50
Candidate Starts for KittenMittens_75:
(Start: 37 @46266 has 1 MA's), (Start: 50 @46212 has 24 MA's), (67, 46167), (75, 46092), (85, 46014), (87, 45984), (98, 45870), (104, 45822), (109, 45813), (112, 45792),

Gene: Klodlith_81 Start: 46808, Stop: 46257, Start Num: 48
Candidate Starts for Klodlith_81:
(8, 47081), (13, 47000), (Start: 48 @46808 has 1 MA's), (Start: 49 @46805 has 5 MA's), (Start: 63 @46787 has 27 MA's), (69, 46739), (75, 46676), (77, 46655), (80, 46613), (83, 46607), (85, 46598), (87, 46568), (94, 46487), (98, 46454), (104, 46406), (109, 46397),

Gene: Koan_76 Start: 47259, Stop: 46726, Start Num: 55
Candidate Starts for Koan_76:
(Start: 41 @47304 has 3 MA's), (46, 47271), (Start: 55 @47259 has 136 MA's), (77, 47115), (78, 47097), (79, 47088), (87, 47028), (96, 46929), (98, 46914), (104, 46866), (109, 46857),

Gene: Koko_92 Start: 48418, Stop: 47891, Start Num: 61
Candidate Starts for Koko_92:
(28, 48535), (Start: 49 @48424 has 5 MA's), (Start: 50 @48421 has 24 MA's), (Start: 61 @48418 has 25 MA's), (67, 48382), (71, 48349), (75, 48307), (85, 48229), (87, 48199), (96, 48100), (97, 48097), (98, 48085), (99, 48076), (104, 48037), (109, 48028),

Gene: Koreni_78 Start: 46940, Stop: 46407, Start Num: 55
Candidate Starts for Koreni_78:

(Start: 41 @46985 has 3 MA's), (46, 46952), (Start: 55 @46940 has 136 MA's), (77, 46796), (78, 46778), (79, 46769), (87, 46709), (96, 46610), (98, 46595), (104, 46547), (109, 46538),

Gene: Kratark_78 Start: 47293, Stop: 46760, Start Num: 55
Candidate Starts for Kratark_78:
(Start: 41 @47338 has 3 MA's), (46, 47305), (Start: 55 @47293 has 136 MA's), (77, 47149), (78, 47131), (79, 47122), (87, 47062), (96, 46963), (98, 46948), (104, 46900), (109, 46891),

Gene: Kremtemulon_76 Start: 47139, Stop: 46606, Start Num: 55
Candidate Starts for Kremtemulon_76:
(Start: 41 @47184 has 3 MA's), (46, 47151), (Start: 55 @47139 has 136 MA's), (77, 46995), (78, 46977), (79, 46968), (87, 46908), (96, 46809), (98, 46794), (104, 46746), (109, 46737),

Gene: Krili_6 Start: 2098, Stop: 1508, Start Num: 51
Candidate Starts for Krili_6:
(20, 2251), (35, 2176), (45, 2119), (Start: 48 @2107 has 1 MA's), (Start: 51 @2098 has 31 MA's), (66, 2047), (67, 2044), (75, 1969), (77, 1945), (80, 1903), (86, 1873), (98, 1732), (102, 1681), (106, 1660),

Gene: Kristoff_77 Start: 47480, Stop: 46941, Start Num: 50
Candidate Starts for Kristoff_77:
(Start: 37 @47534 has 1 MA's), (Start: 50 @47480 has 24 MA's), (67, 47435), (75, 47360), (85, 47282), (87, 47252), (94, 47171), (98, 47138), (99, 47129), (104, 47090), (109, 47081), (112, 47060),

Gene: Kyee_79 Start: 47254, Stop: 46721, Start Num: 55
Candidate Starts for Kyee_79:
(Start: 41 @47299 has 3 MA's), (46, 47266), (Start: 55 @47254 has 136 MA's), (77, 47110), (78, 47092), (79, 47083), (87, 47023), (96, 46924), (98, 46909), (104, 46861), (109, 46852),

Gene: LHTSCC_81 Start: 47699, Stop: 47166, Start Num: 55
Candidate Starts for LHTSCC_81:
(Start: 41 @47744 has 3 MA's), (46, 47711), (Start: 55 @47699 has 136 MA's), (77, 47555), (78, 47537), (79, 47528), (87, 47468), (96, 47369), (104, 47306), (109, 47297),

Gene: Laphuphu24k_40 Start: 26795, Stop: 27394, Start Num: 56
Candidate Starts for Laphuphu24k_40:
(Start: 56 @26795 has 34 MA's), (76, 26918), (78, 26957), (84, 26990), (87, 27026), (90, 27053), (96, 27125), (98, 27140), (101, 27176), (102, 27197), (113, 27308), (120, 27389),

Gene: LappelDuVide_79 Start: 47304, Stop: 46726, Start Num: 41
Candidate Starts for LappelDuVide_79:
(Start: 41 @47304 has 3 MA's), (46, 47271), (Start: 55 @47259 has 136 MA's), (78, 47097), (79, 47088), (87, 47028), (96, 46929), (98, 46914), (104, 46866), (109, 46857),

Gene: Lemur_79 Start: 47256, Stop: 46723, Start Num: 55
Candidate Starts for Lemur_79:
(Start: 41 @47301 has 3 MA's), (46, 47268), (Start: 55 @47256 has 136 MA's), (77, 47112), (78, 47094), (79, 47085), (87, 47025), (96, 46926), (98, 46911), (104, 46863), (109, 46854),

Gene: Leona_41 Start: 26885, Stop: 27487, Start Num: 56
Candidate Starts for Leona_41:
(Start: 56 @26885 has 34 MA's), (70, 26942), (76, 26999), (78, 27038), (84, 27071), (87, 27107), (90, 27134), (96, 27206), (98, 27221), (101, 27257), (102, 27278), (113, 27389),

Gene: Lilleskat_85 Start: 47356, Stop: 46808, Start Num: 53
Candidate Starts for Lilleskat_85:
(Start: 48 @47368 has 1 MA's), (Start: 49 @47365 has 5 MA's), (Start: 50 @47362 has 24 MA's), (Start: 53 @47356 has 24 MA's), (75, 47227), (80, 47164), (84, 47155), (87, 47119), (94, 47038), (98, 47005), (104, 46957), (109, 46948),

Gene: Linus_80 Start: 52204, Stop: 53061, Start Num: 23
Candidate Starts for Linus_80:
(Start: 23 @52204 has 14 MA's), (26, 52207), (Start: 36 @52261 has 6 MA's), (77, 52471), (80, 52513), (86, 52531), (101, 52708), (102, 52729), (111, 52789), (116, 52879), (119, 52936), (122, 52987),

Gene: LittleB_79 Start: 47260, Stop: 46727, Start Num: 55
Candidate Starts for LittleB_79:
(Start: 41 @47305 has 3 MA's), (46, 47272), (Start: 55 @47260 has 136 MA's), (77, 47116), (78, 47098), (79, 47089), (87, 47029), (96, 46930), (98, 46915), (104, 46867), (109, 46858),

Gene: LittleGuy_79 Start: 47144, Stop: 46611, Start Num: 55
Candidate Starts for LittleGuy_79:
(Start: 41 @47189 has 3 MA's), (46, 47156), (Start: 55 @47144 has 136 MA's), (77, 47000), (78, 46982), (79, 46973), (87, 46913), (96, 46814), (98, 46799), (104, 46751), (109, 46742),

Gene: LochMonster_80 Start: 47496, Stop: 46963, Start Num: 55
Candidate Starts for LochMonster_80:
(Start: 41 @47541 has 3 MA's), (46, 47508), (Start: 55 @47496 has 136 MA's), (77, 47352), (78, 47334), (79, 47325), (87, 47265), (96, 47166), (98, 47151), (104, 47103), (109, 47094),

Gene: LoneWolf_85 Start: 47414, Stop: 46863, Start Num: 52
Candidate Starts for LoneWolf_85:
(47, 47426), (Start: 48 @47423 has 1 MA's), (Start: 49 @47420 has 5 MA's), (Start: 50 @47417 has 24 MA's), (Start: 52 @47414 has 6 MA's), (80, 47219), (85, 47204), (87, 47174), (94, 47093), (98, 47060), (104, 47012), (109, 47003),

Gene: Lorenzo_79 Start: 47257, Stop: 46724, Start Num: 55
Candidate Starts for Lorenzo_79:
(Start: 41 @47302 has 3 MA's), (46, 47269), (Start: 55 @47257 has 136 MA's), (78, 47095), (79, 47086), (87, 47026), (96, 46927), (98, 46912), (104, 46864), (109, 46855),

Gene: Lucyedi_88 Start: 49378, Stop: 48842, Start Num: 58
Candidate Starts for Lucyedi_88:
(Start: 57 @49381 has 2 MA's), (Start: 58 @49378 has 1 MA's), (67, 49336), (75, 49261), (85, 49183), (87, 49153), (88, 49138), (94, 49072), (98, 49039), (104, 48991), (109, 48982), (112, 48961),

Gene: Lunsford_79 Start: 47252, Stop: 46719, Start Num: 55
Candidate Starts for Lunsford_79:
(Start: 41 @47297 has 3 MA's), (46, 47264), (Start: 55 @47252 has 136 MA's), (78, 47090), (79, 47081), (87, 47021), (96, 46922), (98, 46907), (104, 46859), (109, 46850),

Gene: Lymara_76 Start: 50618, Stop: 51418, Start Num: 36
Candidate Starts for Lymara_76:
(Start: 36 @50618 has 6 MA's), (Start: 41 @50627 has 3 MA's), (77, 50828), (80, 50870), (86, 50888), (90, 50942), (93, 50993), (101, 51065), (111, 51146), (116, 51236), (119, 51293), (122, 51344),

Gene: MadKillah_6 Start: 2098, Stop: 1508, Start Num: 51

Candidate Starts for MadKillah_6:
(20, 2251), (35, 2176), (45, 2119), (Start: 48 @2107 has 1 MA's), (Start: 51 @2098 has 31 MA's), (66, 2047), (67, 2044), (75, 1969), (77, 1945), (80, 1903), (86, 1873), (98, 1732), (102, 1681), (106, 1660),

Gene: Maminiaina_84 Start: 47329, Stop: 46778, Start Num: 52
Candidate Starts for Maminiaina_84:
(Start: 48 @47338 has 1 MA's), (Start: 49 @47335 has 5 MA's), (Start: 50 @47332 has 24 MA's), (Start: 52 @47329 has 6 MA's), (69, 47260), (77, 47176), (80, 47134), (85, 47119), (95, 47005), (98, 46975), (104, 46927), (109, 46918),

Gene: Maverick_78 Start: 47256, Stop: 46723, Start Num: 55
Candidate Starts for Maverick_78:
(Start: 41 @47301 has 3 MA's), (46, 47268), (Start: 55 @47256 has 136 MA's), (77, 47112), (78, 47094), (79, 47085), (87, 47025), (96, 46926), (98, 46911), (104, 46863), (109, 46854),

Gene: Maxo_81 Start: 47262, Stop: 46729, Start Num: 55
Candidate Starts for Maxo_81:
(Start: 41 @47307 has 3 MA's), (46, 47274), (Start: 55 @47262 has 136 MA's), (77, 47118), (78, 47100), (79, 47091), (87, 47031), (96, 46932), (98, 46917), (104, 46869), (109, 46860),

Gene: Mazhar510_79 Start: 47257, Stop: 46724, Start Num: 55
Candidate Starts for Mazhar510_79:
(Start: 41 @47302 has 3 MA's), (46, 47269), (Start: 55 @47257 has 136 MA's), (77, 47113), (78, 47095), (79, 47086), (87, 47026), (96, 46927), (98, 46912), (104, 46864), (109, 46855),

Gene: McFly_89 Start: 47899, Stop: 47372, Start Num: 63
Candidate Starts for McFly_89:
(28, 48019), (42, 47938), (Start: 49 @47908 has 5 MA's), (Start: 50 @47905 has 24 MA's), (Start: 61 @47902 has 25 MA's), (Start: 63 @47899 has 27 MA's), (67, 47863), (75, 47788), (77, 47767), (85, 47710), (87, 47680), (88, 47665), (96, 47581), (104, 47518), (109, 47509),

Gene: Medusa_78 Start: 47272, Stop: 46739, Start Num: 55
Candidate Starts for Medusa_78:
(Start: 41 @47317 has 3 MA's), (46, 47284), (Start: 55 @47272 has 136 MA's), (78, 47110), (79, 47101), (87, 47041), (96, 46942), (98, 46927), (104, 46879), (109, 46870),

Gene: MeeZee_78 Start: 47253, Stop: 46720, Start Num: 55
Candidate Starts for MeeZee_78:
(Start: 41 @47298 has 3 MA's), (46, 47265), (Start: 55 @47253 has 136 MA's), (78, 47091), (79, 47082), (87, 47022), (96, 46923), (98, 46908), (104, 46860), (109, 46851),

Gene: MegTheThird_81 Start: 46812, Stop: 46246, Start Num: 48
Candidate Starts for MegTheThird_81:
(Start: 48 @46812 has 1 MA's), (Start: 49 @46809 has 5 MA's), (80, 46617), (85, 46602), (87, 46572), (94, 46491), (98, 46458), (104, 46410), (109, 46401),

Gene: Melvin_81 Start: 47254, Stop: 46721, Start Num: 55
Candidate Starts for Melvin_81:
(Start: 41 @47299 has 3 MA's), (46, 47266), (Start: 55 @47254 has 136 MA's), (77, 47110), (78, 47092), (79, 47083), (87, 47023), (96, 46924), (98, 46909), (104, 46861), (109, 46852),

Gene: Millski_78 Start: 47260, Stop: 46727, Start Num: 55
Candidate Starts for Millski_78:

(Start: 41 @47305 has 3 MA's), (46, 47272), (Start: 55 @47260 has 136 MA's), (78, 47098), (79, 47089), (87, 47029), (96, 46930), (98, 46915), (104, 46867), (109, 46858),

Gene: Minispark_82 Start: 46808, Stop: 46260, Start Num: 53
Candidate Starts for Minispark_82:
(1, 47390), (28, 46931), (Start: 48 @46820 has 1 MA's), (Start: 49 @46817 has 5 MA's), (Start: 52 @46811 has 6 MA's), (Start: 53 @46808 has 24 MA's), (77, 46658), (80, 46616), (85, 46601), (87, 46571), (94, 46490), (98, 46457), (104, 46409), (109, 46400),

Gene: Miramae_79 Start: 47083, Stop: 46541, Start Num: 55
Candidate Starts for Miramae_79:
(Start: 55 @47083 has 136 MA's), (67, 47035), (68, 47029), (70, 47014), (77, 46939), (78, 46921), (79, 46912), (87, 46852), (96, 46753), (98, 46738), (104, 46690), (109, 46681),

Gene: Mordred_80 Start: 51852, Stop: 52652, Start Num: 36
Candidate Starts for Mordred_80:
(Start: 23 @51795 has 14 MA's), (26, 51798), (Start: 36 @51852 has 6 MA's), (77, 52062), (80, 52104), (86, 52122), (101, 52299), (102, 52320), (111, 52380), (116, 52470), (119, 52527), (122, 52578),

Gene: Mori_6 Start: 2098, Stop: 1508, Start Num: 51
Candidate Starts for Mori_6:
(20, 2251), (35, 2176), (45, 2119), (Start: 48 @2107 has 1 MA's), (Start: 51 @2098 has 31 MA's), (66, 2047), (67, 2044), (75, 1969), (77, 1945), (80, 1903), (86, 1873), (98, 1732), (102, 1681), (106, 1660),

Gene: Morpher26_76 Start: 47074, Stop: 46541, Start Num: 55
Candidate Starts for Morpher26_76:
(16, 47269), (19, 47227), (29, 47191), (31, 47179), (39, 47125), (Start: 55 @47074 has 136 MA's), (78, 46912), (87, 46843), (96, 46744), (98, 46729), (104, 46681), (109, 46672),

Gene: Morrow_81 Start: 47299, Stop: 46766, Start Num: 55
Candidate Starts for Morrow_81:
(Start: 41 @47344 has 3 MA's), (46, 47311), (Start: 55 @47299 has 136 MA's), (78, 47137), (79, 47128), (87, 47068), (96, 46969), (98, 46954), (104, 46906), (109, 46897),

Gene: MoyaNatalis_79 Start: 51735, Stop: 52535, Start Num: 36
Candidate Starts for MoyaNatalis_79:
(Start: 23 @51678 has 14 MA's), (26, 51681), (Start: 36 @51735 has 6 MA's), (Start: 41 @51744 has 3 MA's), (77, 51945), (80, 51987), (86, 52005), (101, 52182), (102, 52203), (111, 52263), (116, 52353), (119, 52410), (122, 52461),

Gene: Mundrea_78 Start: 47310, Stop: 46768, Start Num: 55
Candidate Starts for Mundrea_78:
(7, 47640), (19, 47463), (29, 47427), (39, 47361), (46, 47322), (Start: 55 @47310 has 136 MA's), (77, 47166), (78, 47148), (79, 47139), (87, 47079), (96, 46980), (98, 46965), (104, 46917), (109, 46908),

Gene: Murai_6 Start: 2098, Stop: 1508, Start Num: 51
Candidate Starts for Murai_6:
(20, 2251), (35, 2176), (45, 2119), (Start: 48 @2107 has 1 MA's), (Start: 51 @2098 has 31 MA's), (66, 2047), (67, 2044), (75, 1969), (77, 1945), (80, 1903), (86, 1873), (98, 1732), (102, 1681), (106, 1660),

Gene: Myxus_85 Start: 47397, Stop: 46849, Start Num: 53
Candidate Starts for Myxus_85:

(Start: 53 @47397 has 24 MA's), (75, 47268), (80, 47205), (84, 47196), (87, 47160), (94, 47079), (98, 47046), (104, 46998), (109, 46989),

Gene: Nebs_80 Start: 47299, Stop: 46766, Start Num: 55
Candidate Starts for Nebs_80:
(Start: 41 @47344 has 3 MA's), (46, 47311), (Start: 55 @47299 has 136 MA's), (77, 47155), (78, 47137), (79, 47128), (87, 47068), (96, 46969), (98, 46954), (104, 46906), (109, 46897),

Gene: Neeharika16_88 Start: 47653, Stop: 47123, Start Num: 61
Candidate Starts for Neeharika16_88:
(22, 47788), (28, 47776), (Start: 49 @47665 has 5 MA's), (Start: 50 @47662 has 24 MA's), (Start: 61 @47653 has 25 MA's), (Start: 63 @47650 has 27 MA's), (67, 47614), (75, 47539), (77, 47518), (85, 47461), (87, 47431), (88, 47416), (96, 47332), (104, 47269), (109, 47260),

Gene: Nemo27_78 Start: 47255, Stop: 46722, Start Num: 55
Candidate Starts for Nemo27_78:
(Start: 41 @47300 has 3 MA's), (46, 47267), (Start: 55 @47255 has 136 MA's), (77, 47111), (78, 47093), (79, 47084), (87, 47024), (96, 46925), (98, 46910), (104, 46862), (109, 46853),

Gene: Newrala_88 Start: 47996, Stop: 47469, Start Num: 63
Candidate Starts for Newrala_88:
(22, 48134), (28, 48122), (Start: 49 @48011 has 5 MA's), (Start: 50 @48008 has 24 MA's), (Start: 61 @47999 has 25 MA's), (Start: 63 @47996 has 27 MA's), (67, 47960), (75, 47885), (77, 47864), (85, 47807), (87, 47777), (88, 47762), (96, 47678), (104, 47615), (109, 47606),

Gene: Niblet_39 Start: 27570, Stop: 28169, Start Num: 56
Candidate Starts for Niblet_39:
(Start: 56 @27570 has 34 MA's), (76, 27699), (78, 27738), (80, 27762), (87, 27807), (90, 27834), (96, 27906), (98, 27921), (101, 27957), (102, 27978), (108, 28008), (113, 28089), (118, 28158),

Gene: NiebruSaylor_6 Start: 2098, Stop: 1508, Start Num: 51
Candidate Starts for NiebruSaylor_6:
(20, 2251), (35, 2176), (45, 2119), (Start: 48 @2107 has 1 MA's), (Start: 51 @2098 has 31 MA's), (66, 2047), (67, 2044), (75, 1969), (77, 1945), (80, 1903), (86, 1873), (98, 1732), (102, 1681), (106, 1660),

Gene: Noelle_77 Start: 47280, Stop: 46744, Start Num: 49
Candidate Starts for Noelle_77:
(Start: 37 @47331 has 1 MA's), (Start: 49 @47280 has 5 MA's), (75, 47163), (87, 47055), (98, 46941), (104, 46893), (109, 46884), (112, 46863),

Gene: NorthStar_76 Start: 47259, Stop: 46726, Start Num: 55
Candidate Starts for NorthStar_76:
(Start: 41 @47304 has 3 MA's), (46, 47271), (Start: 55 @47259 has 136 MA's), (77, 47115), (78, 47097), (79, 47088), (87, 47028), (96, 46929), (98, 46914), (104, 46866), (109, 46857),

Gene: Northrop_76 Start: 47255, Stop: 46722, Start Num: 55
Candidate Starts for Northrop_76:
(Start: 41 @47300 has 3 MA's), (46, 47267), (Start: 55 @47255 has 136 MA's), (78, 47093), (79, 47084), (87, 47024), (96, 46925), (98, 46910), (104, 46862), (109, 46853),

Gene: NotAPhaseMom_78 Start: 47260, Stop: 46727, Start Num: 55
Candidate Starts for NotAPhaseMom_78:

(Start: 41 @47305 has 3 MA's), (46, 47272), (Start: 55 @47260 has 136 MA's), (77, 47116), (78, 47098), (79, 47089), (87, 47029), (96, 46930), (98, 46915), (104, 46867), (109, 46858),

Gene: Nyxis_78 Start: 47138, Stop: 46605, Start Num: 55
Candidate Starts for Nyxis_78:
(Start: 41 @47183 has 3 MA's), (46, 47150), (Start: 55 @47138 has 136 MA's), (78, 46976), (79, 46967), (87, 46907), (96, 46808), (98, 46793), (104, 46745), (109, 46736),

Gene: OKCentral2016_78 Start: 46283, Stop: 45744, Start Num: 50
Candidate Starts for OKCentral2016_78:
(Start: 37 @46337 has 1 MA's), (Start: 50 @46283 has 24 MA's), (67, 46238), (75, 46163), (77, 46142), (87, 46055), (94, 45974), (98, 45941), (99, 45932), (104, 45893), (109, 45884), (112, 45863),

Gene: OKaNui_78 Start: 47310, Stop: 46777, Start Num: 55
Candidate Starts for OKaNui_78:
(Start: 41 @47355 has 3 MA's), (46, 47322), (Start: 55 @47310 has 136 MA's), (77, 47166), (78, 47148), (79, 47139), (87, 47079), (96, 46980), (98, 46965), (104, 46917), (109, 46908),

Gene: Obama12_80 Start: 47683, Stop: 47150, Start Num: 55
Candidate Starts for Obama12_80:
(Start: 41 @47728 has 3 MA's), (46, 47695), (Start: 55 @47683 has 136 MA's), (77, 47539), (78, 47521), (79, 47512), (87, 47452), (96, 47353), (98, 47338), (104, 47290), (109, 47281),

Gene: Ohfah_80 Start: 47299, Stop: 46766, Start Num: 55
Candidate Starts for Ohfah_80:
(Start: 41 @47344 has 3 MA's), (46, 47311), (Start: 55 @47299 has 136 MA's), (77, 47155), (78, 47137), (79, 47128), (87, 47068), (96, 46969), (98, 46954), (104, 46906), (109, 46897),

Gene: Onglai_84 Start: 45547, Stop: 44999, Start Num: 53
Candidate Starts for Onglai_84:
(Start: 53 @45547 has 24 MA's), (75, 45418), (80, 45355), (84, 45346), (87, 45310), (94, 45229), (98, 45196), (104, 45148), (109, 45139),

Gene: Oppalora_41 Start: 26809, Stop: 27408, Start Num: 56
Candidate Starts for Oppalora_41:
(Start: 56 @26809 has 34 MA's), (76, 26932), (78, 26971), (84, 27004), (87, 27040), (90, 27067), (96, 27139), (98, 27154), (101, 27190), (102, 27211), (113, 27322), (120, 27403),

Gene: Orcanus_40 Start: 27545, Stop: 28138, Start Num: 56
Candidate Starts for Orcanus_40:
(Start: 56 @27545 has 34 MA's), (76, 27668), (78, 27707), (80, 27731), (90, 27803), (96, 27875), (98, 27890), (101, 27926), (102, 27947), (108, 27977), (113, 28058), (118, 28127),

Gene: Ovechkin_69 Start: 43705, Stop: 44415, Start Num: 64
Candidate Starts for Ovechkin_69:
(39, 43639), (Start: 64 @43705 has 12 MA's), (72, 43780), (75, 43816), (77, 43840), (87, 43927), (96, 44026), (97, 44029), (99, 44050), (101, 44077), (103, 44098),

Gene: PainterBoy_87 Start: 49092, Stop: 48553, Start Num: 57
Candidate Starts for PainterBoy_87:
(Start: 57 @49092 has 2 MA's), (Start: 58 @49089 has 1 MA's), (67, 49047), (75, 48972), (85, 48894), (87, 48864), (88, 48849), (94, 48783), (98, 48750), (104, 48702), (109, 48693), (112, 48672),

Gene: Palestino_78 Start: 47256, Stop: 46723, Start Num: 55
Candidate Starts for Palestino_78:
(Start: 41 @47301 has 3 MA's), (46, 47268), (Start: 55 @47256 has 136 MA's), (77, 47112), (78, 47094), (79, 47085), (87, 47025), (96, 46926), (98, 46911), (104, 46863), (109, 46854),

Gene: PeaceMeal1_76 Start: 46213, Stop: 45674, Start Num: 50
Candidate Starts for PeaceMeal1_76:
(Start: 37 @46267 has 1 MA's), (Start: 50 @46213 has 24 MA's), (67, 46168), (75, 46093), (85, 46015), (87, 45985), (98, 45871), (104, 45823), (109, 45814), (112, 45793),

Gene: Peaches_77 Start: 47258, Stop: 46725, Start Num: 55
Candidate Starts for Peaches_77:
(Start: 41 @47303 has 3 MA's), (46, 47270), (Start: 55 @47258 has 136 MA's), (77, 47114), (78, 47096), (79, 47087), (87, 47027), (96, 46928), (98, 46913), (104, 46865), (109, 46856),

Gene: Pelletreau_49 Start: 27995, Stop: 28594, Start Num: 56
Candidate Starts for Pelletreau_49:
(Start: 56 @27995 has 34 MA's), (70, 28067), (76, 28124), (78, 28163), (80, 28187), (90, 28259), (96, 28331), (98, 28346), (101, 28382), (102, 28403), (108, 28433), (113, 28514), (118, 28583),

Gene: Perplexer_76 Start: 47054, Stop: 46521, Start Num: 55
Candidate Starts for Perplexer_76:
(16, 47249), (19, 47207), (29, 47171), (31, 47159), (39, 47105), (Start: 55 @47054 has 136 MA's), (78, 46892), (87, 46823), (96, 46724), (98, 46709), (104, 46661), (109, 46652),

Gene: PeterPeter_79 Start: 47253, Stop: 46720, Start Num: 55
Candidate Starts for PeterPeter_79:
(Start: 41 @47298 has 3 MA's), (46, 47265), (Start: 55 @47253 has 136 MA's), (77, 47109), (78, 47091), (79, 47082), (87, 47022), (96, 46923), (98, 46908), (104, 46860), (109, 46851),

Gene: PetiteSangsue_76 Start: 47057, Stop: 46524, Start Num: 55
Candidate Starts for PetiteSangsue_76:
(16, 47252), (19, 47210), (29, 47174), (31, 47162), (39, 47108), (Start: 55 @47057 has 136 MA's), (78, 46895), (87, 46826), (96, 46727), (98, 46712), (104, 46664), (109, 46655),

Gene: Phacado_79 Start: 47255, Stop: 46722, Start Num: 55
Candidate Starts for Phacado_79:
(Start: 41 @47300 has 3 MA's), (46, 47267), (Start: 55 @47255 has 136 MA's), (77, 47111), (78, 47093), (79, 47084), (87, 47024), (96, 46925), (98, 46910), (104, 46862), (109, 46853),

Gene: Phaeder_85 Start: 47272, Stop: 46724, Start Num: 53
Candidate Starts for Phaeder_85:
(Start: 53 @47272 has 24 MA's), (75, 47143), (80, 47080), (84, 47071), (87, 47035), (94, 46954), (98, 46921), (104, 46873), (109, 46864),

Gene: Phanphagia_65 Start: 43251, Stop: 43910, Start Num: 64
Candidate Starts for Phanphagia_65:
(39, 43185), (Start: 64 @43251 has 12 MA's), (75, 43362), (77, 43386), (96, 43572), (97, 43575), (99, 43596), (101, 43623), (103, 43644),

Gene: Pharaoh_79 Start: 48294, Stop: 47764, Start Num: 59
Candidate Starts for Pharaoh_79:

(Start: 48 @48306 has 1 MA's), (Start: 59 @48294 has 2 MA's), (75, 48180), (77, 48159), (85, 48102), (87, 48072), (95, 47988), (98, 47958), (104, 47910), (109, 47901),

Gene: Phelipe_80 Start: 47299, Stop: 46766, Start Num: 55
Candidate Starts for Phelipe_80:
(Start: 41 @47344 has 3 MA's), (46, 47311), (Start: 55 @47299 has 136 MA's), (77, 47155), (78, 47137), (79, 47128), (87, 47068), (96, 46969), (98, 46954), (104, 46906), (109, 46897),

Gene: Phighter1804_79 Start: 47320, Stop: 46787, Start Num: 55
Candidate Starts for Phighter1804_79:
(Start: 41 @47365 has 3 MA's), (46, 47332), (Start: 55 @47320 has 136 MA's), (77, 47176), (78, 47158), (79, 47149), (87, 47089), (96, 46990), (98, 46975), (104, 46927), (109, 46918),

Gene: PhlipPhlop_68 Start: 47129, Stop: 47779, Start Num: 64
Candidate Starts for PhlipPhlop_68:
(12, 46880), (14, 46910), (30, 47006), (Start: 36 @47048 has 6 MA's), (Start: 64 @47129 has 12 MA's), (65, 47144), (75, 47240), (77, 47264), (87, 47351), (92, 47411), (98, 47465), (99, 47474), (101, 47501), (103, 47522), (115, 47657),

Gene: PhluffyCoco_42 Start: 26807, Stop: 27400, Start Num: 56
Candidate Starts for PhluffyCoco_42:
(Start: 56 @26807 has 34 MA's), (76, 26930), (78, 26969), (84, 27002), (90, 27065), (96, 27137), (98, 27152), (101, 27188), (102, 27209), (113, 27320), (118, 27389),

Gene: Phonnegut_85 Start: 47288, Stop: 46740, Start Num: 53
Candidate Starts for Phonnegut_85:
(Start: 53 @47288 has 24 MA's), (75, 47159), (80, 47096), (84, 47087), (87, 47051), (94, 46970), (98, 46937), (104, 46889), (109, 46880),

Gene: Phontbonne_79 Start: 47154, Stop: 46621, Start Num: 55
Candidate Starts for Phontbonne_79:
(Start: 41 @47199 has 3 MA's), (46, 47166), (Start: 55 @47154 has 136 MA's), (77, 47010), (78, 46992), (79, 46983), (87, 46923), (96, 46824), (98, 46809), (104, 46761), (109, 46752),

Gene: Pioneer_85 Start: 47288, Stop: 46740, Start Num: 53
Candidate Starts for Pioneer_85:
(Start: 53 @47288 has 24 MA's), (75, 47159), (80, 47096), (84, 47087), (87, 47051), (94, 46970), (98, 46937), (104, 46889), (109, 46880),

Gene: Pipcraft_75 Start: 47260, Stop: 46727, Start Num: 55
Candidate Starts for Pipcraft_75:
(Start: 41 @47305 has 3 MA's), (46, 47272), (Start: 55 @47260 has 136 MA's), (78, 47098), (79, 47089), (87, 47029), (96, 46930), (98, 46915), (104, 46867), (109, 46858),

Gene: Pmask_88 Start: 48200, Stop: 47670, Start Num: 61
Candidate Starts for Pmask_88:
(22, 48335), (28, 48323), (Start: 49 @48212 has 5 MA's), (Start: 50 @48209 has 24 MA's), (Start: 61 @48200 has 25 MA's), (Start: 63 @48197 has 27 MA's), (67, 48161), (75, 48086), (77, 48065), (85, 48008), (87, 47978), (88, 47963), (96, 47879), (104, 47816), (109, 47807),

Gene: Polymorphads_80 Start: 47280, Stop: 46747, Start Num: 55
Candidate Starts for Polymorphads_80:

(Start: 41 @47325 has 3 MA's), (46, 47292), (Start: 55 @47280 has 136 MA's), (78, 47118), (79, 47109), (87, 47049), (96, 46950), (98, 46935), (104, 46887), (109, 46878),

Gene: Polyphemus_82 Start: 45968, Stop: 45441, Start Num: 63
Candidate Starts for Polyphemus_82:
(22, 46106), (28, 46094), (Start: 49 @45983 has 5 MA's), (Start: 50 @45980 has 24 MA's), (Start: 61 @45971 has 25 MA's), (Start: 63 @45968 has 27 MA's), (67, 45932), (75, 45857), (77, 45836), (85, 45779), (87, 45749), (88, 45734), (96, 45650), (104, 45587), (109, 45578),

Gene: Poompha_76 Start: 46211, Stop: 45672, Start Num: 50
Candidate Starts for Poompha_76:
(Start: 37 @46265 has 1 MA's), (Start: 50 @46211 has 24 MA's), (67, 46166), (75, 46091), (85, 46013), (87, 45983), (98, 45869), (104, 45821), (109, 45812), (112, 45791),

Gene: Priamo_90 Start: 47446, Stop: 46913, Start Num: 50
Candidate Starts for Priamo_90:
(28, 47560), (42, 47479), (Start: 49 @47449 has 5 MA's), (Start: 50 @47446 has 24 MA's), (Start: 61 @47443 has 25 MA's), (Start: 63 @47440 has 27 MA's), (67, 47404), (75, 47329), (77, 47308), (85, 47251), (87, 47221), (88, 47206), (96, 47122), (104, 47059), (109, 47050),

Gene: PrincessTrina_81 Start: 52100, Stop: 52957, Start Num: 23
Candidate Starts for PrincessTrina_81:
(Start: 23 @52100 has 14 MA's), (26, 52103), (Start: 36 @52157 has 6 MA's), (77, 52367), (80, 52409), (86, 52427), (89, 52475), (90, 52481), (107, 52652), (111, 52685), (116, 52775), (119, 52832), (122, 52883),

Gene: Priya_83 Start: 47060, Stop: 46512, Start Num: 53
Candidate Starts for Priya_83:
(Start: 48 @47072 has 1 MA's), (Start: 49 @47069 has 5 MA's), (Start: 50 @47066 has 24 MA's), (Start: 53 @47060 has 24 MA's), (75, 46931), (80, 46868), (84, 46859), (87, 46823), (94, 46742), (98, 46709), (104, 46661), (109, 46652),

Gene: Pumbaa_79 Start: 47204, Stop: 46671, Start Num: 55
Candidate Starts for Pumbaa_79:
(Start: 41 @47249 has 3 MA's), (46, 47216), (Start: 55 @47204 has 136 MA's), (78, 47042), (79, 47033), (87, 46973), (96, 46874), (98, 46859), (104, 46811), (109, 46802),

Gene: Qobbit_83 Start: 47022, Stop: 46474, Start Num: 53
Candidate Starts for Qobbit_83:
(Start: 48 @47034 has 1 MA's), (Start: 49 @47031 has 5 MA's), (Start: 50 @47028 has 24 MA's), (Start: 53 @47022 has 24 MA's), (75, 46893), (80, 46830), (84, 46821), (87, 46785), (94, 46704), (98, 46671), (104, 46623), (109, 46614),

Gene: Rahalelujah_84 Start: 46823, Stop: 46275, Start Num: 53
Candidate Starts for Rahalelujah_84:
(1, 47405), (28, 46946), (Start: 48 @46835 has 1 MA's), (Start: 49 @46832 has 5 MA's), (Start: 52 @46826 has 6 MA's), (Start: 53 @46823 has 24 MA's), (77, 46673), (80, 46631), (85, 46616), (87, 46586), (94, 46505), (98, 46472), (104, 46424), (109, 46415),

Gene: Rattail_42 Start: 26893, Stop: 27486, Start Num: 56
Candidate Starts for Rattail_42:
(Start: 56 @26893 has 34 MA's), (76, 27016), (78, 27055), (84, 27088), (90, 27151), (96, 27223), (98, 27238), (101, 27274), (102, 27295), (113, 27406), (118, 27475),

Gene: Rebeuca_80 Start: 47481, Stop: 46942, Start Num: 50
Candidate Starts for Rebeuca_80:
(Start: 37 @47535 has 1 MA's), (Start: 50 @47481 has 24 MA's), (67, 47436), (75, 47361), (85, 47283), (87, 47253), (94, 47172), (98, 47139), (99, 47130), (104, 47091), (109, 47082), (112, 47061),

Gene: RedBird_71 Start: 44150, Stop: 44698, Start Num: 64
Candidate Starts for RedBird_71:
(34, 44069), (Start: 64 @44150 has 12 MA's), (72, 44225), (75, 44261), (77, 44285), (87, 44372), (96, 44471), (97, 44474), (99, 44495), (101, 44522), (103, 44543),

Gene: RedFox_42 Start: 26806, Stop: 27399, Start Num: 56
Candidate Starts for RedFox_42:
(Start: 56 @26806 has 34 MA's), (76, 26929), (78, 26968), (84, 27001), (90, 27064), (96, 27136), (98, 27151), (101, 27187), (102, 27208), (113, 27319), (118, 27388),

Gene: Refuge_82 Start: 48905, Stop: 48375, Start Num: 63
Candidate Starts for Refuge_82:
(44, 48929), (Start: 63 @48905 has 27 MA's), (75, 48794), (84, 48722), (85, 48716), (87, 48686), (96, 48587), (98, 48572), (104, 48524), (109, 48515),

Gene: Relief_78 Start: 47256, Stop: 46723, Start Num: 55
Candidate Starts for Relief_78:
(Start: 41 @47301 has 3 MA's), (46, 47268), (Start: 55 @47256 has 136 MA's), (77, 47112), (78, 47094), (79, 47085), (87, 47025), (96, 46926), (98, 46911), (104, 46863), (109, 46854),

Gene: Renna12_41 Start: 26867, Stop: 27475, Start Num: 56
Candidate Starts for Renna12_41:
(Start: 56 @26867 has 34 MA's), (76, 26990), (78, 27029), (80, 27053), (84, 27062), (87, 27098), (90, 27125), (96, 27197), (97, 27200), (98, 27212), (101, 27248), (102, 27269), (112, 27329), (121, 27470),

Gene: Rifter_91 Start: 47196, Stop: 46669, Start Num: 61
Candidate Starts for Rifter_91:
(28, 47313), (Start: 49 @47202 has 5 MA's), (Start: 50 @47199 has 24 MA's), (Start: 61 @47196 has 25 MA's), (67, 47160), (71, 47127), (75, 47085), (85, 47007), (87, 46977), (96, 46878), (97, 46875), (98, 46863), (99, 46854), (104, 46815), (109, 46806),

Gene: RockieBear_79 Start: 47258, Stop: 46725, Start Num: 55
Candidate Starts for RockieBear_79:
(Start: 41 @47303 has 3 MA's), (46, 47270), (Start: 55 @47258 has 136 MA's), (77, 47114), (78, 47096), (79, 47087), (87, 47027), (96, 46928), (98, 46913), (104, 46865), (109, 46856),

Gene: Rocksand_76 Start: 47255, Stop: 46722, Start Num: 55
Candidate Starts for Rocksand_76:
(Start: 41 @47300 has 3 MA's), (46, 47267), (Start: 55 @47255 has 136 MA's), (78, 47093), (79, 47084), (87, 47024), (96, 46925), (98, 46910), (104, 46862), (109, 46853),

Gene: Roksolana_91 Start: 47912, Stop: 47385, Start Num: 61
Candidate Starts for Roksolana_91:
(28, 48029), (Start: 49 @47918 has 5 MA's), (Start: 50 @47915 has 24 MA's), (Start: 61 @47912 has 25 MA's), (67, 47876), (71, 47843), (75, 47801), (85, 47723), (87, 47693), (96, 47594), (97, 47591), (98, 47579), (99, 47570), (104, 47531), (109, 47522),

Gene: Romney_78 Start: 47256, Stop: 46723, Start Num: 55
Candidate Starts for Romney_78:
(Start: 41 @47301 has 3 MA's), (46, 47268), (Start: 55 @47256 has 136 MA's), (77, 47112), (78, 47094), (79, 47085), (87, 47025), (96, 46926), (98, 46911), (104, 46863), (109, 46854),

Gene: Roosevelt_77 Start: 47261, Stop: 46728, Start Num: 55
Candidate Starts for Roosevelt_77:
(Start: 41 @47306 has 3 MA's), (46, 47273), (Start: 55 @47261 has 136 MA's), (78, 47099), (79, 47090), (87, 47030), (96, 46931), (98, 46916), (104, 46868), (109, 46859),

Gene: Rosa24_75 Start: 47287, Stop: 46754, Start Num: 55
Candidate Starts for Rosa24_75:
(Start: 41 @47332 has 3 MA's), (46, 47299), (Start: 55 @47287 has 136 MA's), (77, 47143), (78, 47125), (79, 47116), (87, 47056), (96, 46957), (98, 46942), (104, 46894), (109, 46885),

Gene: RosiePosie_80 Start: 51884, Stop: 52741, Start Num: 23
Candidate Starts for RosiePosie_80:
(Start: 23 @51884 has 14 MA's), (26, 51887), (Start: 36 @51941 has 6 MA's), (77, 52151), (80, 52193), (86, 52211), (89, 52259), (90, 52265), (101, 52388), (102, 52409), (111, 52469), (116, 52559), (119, 52616), (122, 52667),

Gene: Rowdy_81 Start: 47188, Stop: 46649, Start Num: 57
Candidate Starts for Rowdy_81:
(Start: 37 @47248 has 1 MA's), (Start: 57 @47188 has 2 MA's), (67, 47143), (75, 47068), (77, 47047), (85, 46990), (87, 46960), (94, 46879), (98, 46846), (99, 46837), (104, 46798), (109, 46789), (112, 46768),

Gene: Ruin_79 Start: 47252, Stop: 46719, Start Num: 55
Candidate Starts for Ruin_79:
(Start: 41 @47297 has 3 MA's), (46, 47264), (Start: 55 @47252 has 136 MA's), (77, 47108), (78, 47090), (79, 47081), (87, 47021), (96, 46922), (98, 46907), (104, 46859), (109, 46850),

Gene: Ryadel_8 Start: 2666, Stop: 2088, Start Num: 60
Candidate Starts for Ryadel_8:
(38, 2744), (Start: 60 @2666 has 1 MA's), (66, 2627), (67, 2624), (75, 2549), (77, 2525), (80, 2483), (86, 2453), (98, 2312), (102, 2261), (106, 2240),

Gene: RyeScarlet_85 Start: 47269, Stop: 46715, Start Num: 50
Candidate Starts for RyeScarlet_85:
(Start: 48 @47275 has 1 MA's), (Start: 49 @47272 has 5 MA's), (Start: 50 @47269 has 24 MA's), (Start: 53 @47263 has 24 MA's), (75, 47134), (80, 47071), (84, 47062), (87, 47026), (94, 46945), (98, 46912), (104, 46864), (109, 46855),

Gene: Sabertooth_79 Start: 47264, Stop: 46731, Start Num: 55
Candidate Starts for Sabertooth_79:
(Start: 41 @47309 has 3 MA's), (46, 47276), (Start: 55 @47264 has 136 MA's), (78, 47102), (79, 47093), (87, 47033), (96, 46934), (98, 46919), (104, 46871), (109, 46862),

Gene: Sachima_85 Start: 47300, Stop: 46752, Start Num: 53
Candidate Starts for Sachima_85:
(Start: 53 @47300 has 24 MA's), (75, 47171), (80, 47108), (84, 47099), (87, 47063), (94, 46982), (98, 46949), (104, 46901), (109, 46892),

Gene: Sassafras_71 Start: 44468, Stop: 45091, Start Num: 64
Candidate Starts for Sassafras_71:
(34, 44387), (Start: 64 @44468 has 12 MA's), (72, 44543), (75, 44579), (77, 44603), (87, 44690), (96, 44789), (97, 44792), (99, 44813), (101, 44840), (103, 44861),

Gene: Scamp_79 Start: 47261, Stop: 46728, Start Num: 55
Candidate Starts for Scamp_79:
(Start: 41 @47306 has 3 MA's), (46, 47273), (Start: 55 @47261 has 136 MA's), (77, 47117), (78, 47099), (79, 47090), (87, 47030), (96, 46931), (98, 46916), (104, 46868), (109, 46859),

Gene: Scavito_81 Start: 51844, Stop: 52701, Start Num: 23
Candidate Starts for Scavito_81:
(Start: 23 @51844 has 14 MA's), (26, 51847), (Start: 36 @51901 has 6 MA's), (77, 52111), (80, 52153), (86, 52171), (101, 52348), (102, 52369), (111, 52429), (116, 52519), (119, 52576), (122, 52627),

Gene: Scherzo_83 Start: 47320, Stop: 46772, Start Num: 53
Candidate Starts for Scherzo_83:
(Start: 53 @47320 has 24 MA's), (75, 47191), (80, 47128), (84, 47119), (87, 47083), (94, 47002), (98, 46969), (104, 46921), (109, 46912),

Gene: SchoolBus_6 Start: 2147, Stop: 1557, Start Num: 51
Candidate Starts for SchoolBus_6:
(Start: 51 @2147 has 31 MA's), (66, 2096), (67, 2093), (75, 2018), (77, 1994), (80, 1952), (86, 1922), (98, 1781), (102, 1730), (106, 1709),

Gene: Schuy_6 Start: 2098, Stop: 1508, Start Num: 51
Candidate Starts for Schuy_6:
(20, 2251), (35, 2176), (45, 2119), (Start: 48 @2107 has 1 MA's), (Start: 51 @2098 has 31 MA's), (66, 2047), (67, 2044), (75, 1969), (77, 1945), (80, 1903), (86, 1873), (98, 1732), (102, 1681), (106, 1660),

Gene: SenorClean_80 Start: 47259, Stop: 46726, Start Num: 55
Candidate Starts for SenorClean_80:
(Start: 41 @47304 has 3 MA's), (46, 47271), (Start: 55 @47259 has 136 MA's), (77, 47115), (78, 47097), (79, 47088), (87, 47028), (96, 46929), (98, 46914), (104, 46866), (109, 46857),

Gene: Severus_77 Start: 46211, Stop: 45672, Start Num: 50
Candidate Starts for Severus_77:
(Start: 37 @46265 has 1 MA's), (Start: 50 @46211 has 24 MA's), (67, 46166), (75, 46091), (85, 46013), (87, 45983), (98, 45869), (104, 45821), (109, 45812), (112, 45791),

Gene: Shaka_77 Start: 47257, Stop: 46724, Start Num: 55
Candidate Starts for Shaka_77:
(Start: 41 @47302 has 3 MA's), (46, 47269), (Start: 55 @47257 has 136 MA's), (77, 47113), (78, 47095), (79, 47086), (87, 47026), (96, 46927), (98, 46912), (104, 46864), (109, 46855),

Gene: Shapes_81 Start: 47188, Stop: 46649, Start Num: 57
Candidate Starts for Shapes_81:
(Start: 37 @47248 has 1 MA's), (Start: 57 @47188 has 2 MA's), (67, 47143), (75, 47068), (77, 47047), (85, 46990), (87, 46960), (94, 46879), (98, 46846), (99, 46837), (104, 46798), (109, 46789), (112, 46768),

Gene: SheaKeira_80 Start: 46608, Stop: 46063, Start Num: 50
Candidate Starts for SheaKeira_80:

(13, 46806), (Start: 48 @46614 has 1 MA's), (Start: 50 @46608 has 24 MA's), (69, 46545), (75, 46482), (80, 46419), (83, 46413), (85, 46404), (87, 46374), (94, 46293), (98, 46260), (104, 46212), (109, 46203),

Gene: SheldonCooper_79 Start: 47697, Stop: 47164, Start Num: 55
Candidate Starts for SheldonCooper_79:
(Start: 41 @47742 has 3 MA's), (46, 47709), (Start: 55 @47697 has 136 MA's), (77, 47553), (78, 47535), (79, 47526), (87, 47466), (96, 47367), (98, 47352), (104, 47304), (109, 47295),

Gene: Shen_37 Start: 26102, Stop: 26695, Start Num: 56
Candidate Starts for Shen_37:
(Start: 56 @26102 has 34 MA's), (70, 26168), (76, 26225), (78, 26264), (80, 26288), (90, 26360), (96, 26432), (98, 26447), (101, 26483), (102, 26504), (108, 26534), (113, 26615), (118, 26684),

Gene: Shida_6 Start: 2147, Stop: 1557, Start Num: 51
Candidate Starts for Shida_6:
(20, 2300), (35, 2225), (45, 2168), (Start: 48 @2156 has 1 MA's), (Start: 51 @2147 has 31 MA's), (66, 2096), (67, 2093), (75, 2018), (77, 1994), (80, 1952), (86, 1922), (98, 1781), (102, 1730), (106, 1709),

Gene: ShowerHandel_73 Start: 45372, Stop: 45995, Start Num: 64
Candidate Starts for ShowerHandel_73:
(30, 45249), (Start: 36 @45291 has 6 MA's), (Start: 64 @45372 has 12 MA's), (65, 45387), (68, 45414), (69, 45420), (72, 45447), (75, 45483), (87, 45594), (92, 45654), (99, 45717), (101, 45744), (103, 45765),

Gene: Shygu2_77 Start: 47203, Stop: 46670, Start Num: 55
Candidate Starts for Shygu2_77:
(Start: 41 @47248 has 3 MA's), (46, 47215), (Start: 55 @47203 has 136 MA's), (77, 47059), (78, 47041), (84, 47008), (87, 46972), (96, 46873), (98, 46858), (104, 46810), (109, 46801),

Gene: Skadoosh_76 Start: 47256, Stop: 46723, Start Num: 55
Candidate Starts for Skadoosh_76:
(Start: 41 @47301 has 3 MA's), (46, 47268), (Start: 55 @47256 has 136 MA's), (78, 47094), (79, 47085), (87, 47025), (96, 46926), (98, 46911), (104, 46863), (109, 46854),

Gene: Skipitt_78 Start: 47253, Stop: 46720, Start Num: 55
Candidate Starts for Skipitt_78:
(Start: 41 @47298 has 3 MA's), (46, 47265), (Start: 55 @47253 has 136 MA's), (77, 47109), (78, 47091), (79, 47082), (87, 47022), (96, 46923), (98, 46908), (104, 46860), (109, 46851),

Gene: SmellyB_89 Start: 47554, Stop: 47027, Start Num: 63
Candidate Starts for SmellyB_89:
(28, 47674), (42, 47593), (Start: 49 @47563 has 5 MA's), (Start: 50 @47560 has 24 MA's), (Start: 61 @47557 has 25 MA's), (Start: 63 @47554 has 27 MA's), (67, 47518), (75, 47443), (77, 47422), (85, 47365), (87, 47335), (88, 47320), (96, 47236), (104, 47173), (109, 47164),

Gene: Smooch_7 Start: 2521, Stop: 1931, Start Num: 51
Candidate Starts for Smooch_7:
(Start: 51 @2521 has 31 MA's), (66, 2470), (67, 2467), (75, 2392), (77, 2368), (78, 2350), (86, 2296), (98, 2155), (102, 2104), (106, 2083),

Gene: Sparxx_80 Start: 47255, Stop: 46722, Start Num: 55
Candidate Starts for Sparxx_80:

(Start: 41 @47300 has 3 MA's), (46, 47267), (Start: 55 @47255 has 136 MA's), (78, 47093), (79, 47084), (87, 47024), (96, 46925), (98, 46910), (104, 46862), (109, 46853),

Gene: Spino_78 Start: 47259, Stop: 46726, Start Num: 55
Candidate Starts for Spino_78:
(Start: 41 @47304 has 3 MA's), (46, 47271), (Start: 55 @47259 has 136 MA's), (77, 47115), (78, 47097), (79, 47088), (87, 47028), (96, 46929), (98, 46914), (104, 46866), (109, 46857),

Gene: Spouty_83 Start: 47059, Stop: 46511, Start Num: 53
Candidate Starts for Spouty_83:
(Start: 48 @47071 has 1 MA's), (Start: 49 @47068 has 5 MA's), (Start: 50 @47065 has 24 MA's), (Start: 53 @47059 has 24 MA's), (75, 46930), (80, 46867), (84, 46858), (87, 46822), (94, 46741), (98, 46708), (104, 46660), (109, 46651),

Gene: Stasia_76 Start: 47261, Stop: 46683, Start Num: 41
Candidate Starts for Stasia_76:
(Start: 41 @47261 has 3 MA's), (46, 47228), (Start: 55 @47216 has 136 MA's), (75, 47093), (77, 47072), (78, 47054), (87, 46985), (96, 46886), (98, 46871), (104, 46823), (109, 46814),

Gene: SteMason_79 Start: 47256, Stop: 46723, Start Num: 55
Candidate Starts for SteMason_79:
(Start: 41 @47301 has 3 MA's), (46, 47268), (Start: 55 @47256 has 136 MA's), (77, 47112), (78, 47094), (79, 47085), (87, 47025), (96, 46926), (98, 46911), (104, 46863), (109, 46854),

Gene: Steamy_77 Start: 47389, Stop: 46856, Start Num: 59
Candidate Starts for Steamy_77:
(42, 47431), (Start: 59 @47389 has 2 MA's), (62, 47386), (75, 47275), (80, 47212), (85, 47197), (87, 47167), (94, 47086), (98, 47053), (104, 47005), (109, 46996),

Gene: Stink_79 Start: 47391, Stop: 46849, Start Num: 55
Candidate Starts for Stink_79:
(Start: 55 @47391 has 136 MA's), (67, 47343), (68, 47337), (70, 47322), (77, 47247), (78, 47229), (79, 47220), (87, 47160), (96, 47061), (98, 47046), (104, 46998), (109, 46989),

Gene: StuartMinion_34 Start: 23874, Stop: 24473, Start Num: 56
Candidate Starts for StuartMinion_34:
(Start: 56 @23874 has 34 MA's), (69, 23931), (76, 23997), (78, 24036), (84, 24069), (87, 24105), (96, 24204), (98, 24219), (101, 24255), (102, 24276),

Gene: Sultana_79 Start: 47256, Stop: 46723, Start Num: 55
Candidate Starts for Sultana_79:
(Start: 41 @47301 has 3 MA's), (46, 47268), (Start: 55 @47256 has 136 MA's), (77, 47112), (78, 47094), (79, 47085), (87, 47025), (96, 46926), (98, 46911), (104, 46863), (109, 46854),

Gene: SuperAwesome_89 Start: 48236, Stop: 47709, Start Num: 63
Candidate Starts for SuperAwesome_89:
(22, 48374), (28, 48362), (Start: 49 @48251 has 5 MA's), (Start: 50 @48248 has 24 MA's), (Start: 61 @48239 has 25 MA's), (Start: 63 @48236 has 27 MA's), (67, 48200), (75, 48125), (77, 48104), (85, 48047), (87, 48017), (88, 48002), (96, 47918), (104, 47855), (109, 47846),

Gene: SuperCallie99_85 Start: 47620, Stop: 47090, Start Num: 61
Candidate Starts for SuperCallie99_85:

(28, 47737), (42, 47656), (Start: 49 @47626 has 5 MA's), (Start: 50 @47623 has 24 MA's), (Start: 61 @47620 has 25 MA's), (Start: 63 @47617 has 27 MA's), (67, 47581), (75, 47506), (77, 47485), (85, 47428), (87, 47398), (88, 47383), (96, 47299), (104, 47236), (109, 47227),

Gene: Taquarus_78 Start: 47262, Stop: 46729, Start Num: 55
Candidate Starts for Taquarus_78:
(Start: 41 @47307 has 3 MA's), (46, 47274), (Start: 55 @47262 has 136 MA's), (77, 47118), (78, 47100), (79, 47091), (87, 47031), (96, 46932), (98, 46917), (104, 46869), (109, 46860),

Gene: TaylorSipht_40 Start: 26950, Stop: 27543, Start Num: 56
Candidate Starts for TaylorSipht_40:
(21, 26785), (Start: 56 @26950 has 34 MA's), (70, 27016), (76, 27073), (77, 27094), (78, 27112), (80, 27136), (87, 27181), (90, 27208), (96, 27280), (98, 27295), (101, 27331), (102, 27352), (113, 27463),

Gene: TelAviv_6 Start: 2144, Stop: 1554, Start Num: 51
Candidate Starts for TelAviv_6:
(Start: 51 @2144 has 31 MA's), (66, 2093), (67, 2090), (75, 2015), (77, 1991), (78, 1973), (86, 1919), (98, 1778), (102, 1727), (106, 1706),

Gene: Temprado_92 Start: 48028, Stop: 47501, Start Num: 61
Candidate Starts for Temprado_92:
(28, 48145), (Start: 49 @48034 has 5 MA's), (Start: 50 @48031 has 24 MA's), (Start: 61 @48028 has 25 MA's), (67, 47992), (71, 47959), (75, 47917), (85, 47839), (87, 47809), (96, 47710), (97, 47707), (98, 47695), (99, 47686), (104, 47647), (109, 47638),

Gene: Thanksgivukkah_78 Start: 47257, Stop: 46724, Start Num: 55
Candidate Starts for Thanksgivukkah_78:
(Start: 41 @47302 has 3 MA's), (46, 47269), (Start: 55 @47257 has 136 MA's), (78, 47095), (79, 47086), (87, 47026), (96, 46927), (98, 46912), (104, 46864), (109, 46855),

Gene: TinaFeyge_77 Start: 47254, Stop: 46721, Start Num: 55
Candidate Starts for TinaFeyge_77:
(Start: 41 @47299 has 3 MA's), (46, 47266), (Start: 55 @47254 has 136 MA's), (78, 47092), (79, 47083), (87, 47023), (96, 46924), (98, 46909), (104, 46861), (109, 46852),

Gene: Tinybot_78 Start: 47286, Stop: 46753, Start Num: 55
Candidate Starts for Tinybot_78:
(Start: 41 @47331 has 3 MA's), (46, 47298), (Start: 55 @47286 has 136 MA's), (77, 47142), (78, 47124), (79, 47115), (87, 47055), (96, 46956), (98, 46941), (104, 46893), (109, 46884),

Gene: TiroTheta9_78 Start: 47253, Stop: 46720, Start Num: 55
Candidate Starts for TiroTheta9_78:
(Start: 41 @47298 has 3 MA's), (46, 47265), (Start: 55 @47253 has 136 MA's), (78, 47091), (79, 47082), (87, 47022), (96, 46923), (98, 46908), (104, 46860), (109, 46851),

Gene: Toad24_42 Start: 28241, Stop: 28834, Start Num: 56
Candidate Starts for Toad24_42:
(Start: 56 @28241 has 34 MA's), (70, 28307), (76, 28364), (78, 28403), (80, 28427), (90, 28499), (96, 28571), (98, 28586), (101, 28622), (102, 28643), (108, 28673), (113, 28754), (118, 28823),

Gene: Toaka_83 Start: 47180, Stop: 46632, Start Num: 53
Candidate Starts for Toaka_83:

(32, 47282), (Start: 53 @47180 has 24 MA's), (80, 46988), (84, 46979), (87, 46943), (94, 46862), (98, 46829), (99, 46820), (104, 46781), (109, 46772),

Gene: ToneTone_88 Start: 47576, Stop: 47049, Start Num: 63
Candidate Starts for ToneTone_88:
(28, 47696), (Start: 49 @47585 has 5 MA's), (Start: 50 @47582 has 24 MA's), (Start: 63 @47576 has 27 MA's), (67, 47540), (71, 47507), (75, 47465), (85, 47387), (87, 47357), (96, 47258), (97, 47255), (98, 47243), (99, 47234), (104, 47195), (109, 47186),

Gene: Tophat_81 Start: 52033, Stop: 52890, Start Num: 23
Candidate Starts for Tophat_81:
(Start: 23 @52033 has 14 MA's), (26, 52036), (Start: 36 @52090 has 6 MA's), (77, 52300), (80, 52342), (86, 52360), (101, 52537), (102, 52558), (111, 52618), (116, 52708), (119, 52765), (122, 52816),

Gene: TroyPia_80 Start: 47294, Stop: 46761, Start Num: 55
Candidate Starts for TroyPia_80:
(Start: 41 @47339 has 3 MA's), (46, 47306), (Start: 55 @47294 has 136 MA's), (77, 47150), (78, 47132), (79, 47123), (87, 47063), (96, 46964), (98, 46949), (104, 46901), (109, 46892),

Gene: Tubs_85 Start: 47272, Stop: 46724, Start Num: 53
Candidate Starts for Tubs_85:
(Start: 53 @47272 has 24 MA's), (75, 47143), (80, 47080), (84, 47071), (87, 47035), (94, 46954), (98, 46921), (104, 46873), (109, 46864),

Gene: Tucker_91 Start: 47779, Stop: 47252, Start Num: 63
Candidate Starts for Tucker_91:
(28, 47899), (Start: 49 @47788 has 5 MA's), (Start: 50 @47785 has 24 MA's), (Start: 63 @47779 has 27 MA's), (67, 47743), (71, 47710), (75, 47668), (85, 47590), (87, 47560), (96, 47461), (97, 47458), (98, 47446), (99, 47437), (104, 47398), (109, 47389),

Gene: Tweety_69 Start: 44484, Stop: 45269, Start Num: 64
Candidate Starts for Tweety_69:
(30, 44361), (Start: 36 @44403 has 6 MA's), (Start: 64 @44484 has 12 MA's), (65, 44499), (75, 44595), (87, 44706), (92, 44766), (99, 44829), (101, 44856), (103, 44877), (115, 45012), (123, 45123), (124, 45153), (125, 45183),

Gene: Twister_79 Start: 47039, Stop: 46500, Start Num: 50
Candidate Starts for Twister_79:
(Start: 37 @47093 has 1 MA's), (Start: 50 @47039 has 24 MA's), (67, 46994), (75, 46919), (87, 46811), (94, 46730), (98, 46697), (99, 46688), (104, 46649), (109, 46640), (112, 46619),

Gene: TygerBlood_79 Start: 47259, Stop: 46726, Start Num: 55
Candidate Starts for TygerBlood_79:
(Start: 41 @47304 has 3 MA's), (46, 47271), (Start: 55 @47259 has 136 MA's), (77, 47115), (78, 47097), (79, 47088), (87, 47028), (96, 46929), (98, 46914), (104, 46866), (109, 46857),

Gene: Ulysses_78 Start: 46942, Stop: 46409, Start Num: 55
Candidate Starts for Ulysses_78:
(Start: 41 @46987 has 3 MA's), (46, 46954), (Start: 55 @46942 has 136 MA's), (77, 46798), (78, 46780), (79, 46771), (87, 46711), (96, 46612), (98, 46597), (104, 46549), (109, 46540),

Gene: Vagabond_6 Start: 2233, Stop: 1643, Start Num: 51
Candidate Starts for Vagabond_6:

(Start: 51 @2233 has 31 MA's), (66, 2182), (75, 2104), (77, 2080), (78, 2062), (86, 2008), (98, 1867), (102, 1816), (106, 1795),

Gene: Vanisoa_80 Start: 47513, Stop: 46962, Start Num: 52
Candidate Starts for Vanisoa_80:
(2, 47984), (28, 47636), (47, 47525), (Start: 52 @47513 has 6 MA's), (80, 47318), (85, 47303), (87, 47273), (94, 47192), (98, 47159), (99, 47150), (104, 47111), (109, 47102),

Gene: VohminGhazi_89 Start: 47555, Stop: 47028, Start Num: 63
Candidate Starts for VohminGhazi_89:
(28, 47675), (42, 47594), (Start: 49 @47564 has 5 MA's), (Start: 50 @47561 has 24 MA's), (Start: 61 @47558 has 25 MA's), (Start: 63 @47555 has 27 MA's), (67, 47519), (75, 47444), (77, 47423), (85, 47366), (87, 47336), (88, 47321), (96, 47237), (104, 47174), (109, 47165),

Gene: Vorrps_6 Start: 2098, Stop: 1508, Start Num: 51
Candidate Starts for Vorrps_6:
(20, 2251), (35, 2176), (45, 2119), (Start: 48 @2107 has 1 MA's), (Start: 51 @2098 has 31 MA's), (66, 2047), (67, 2044), (75, 1969), (77, 1945), (80, 1903), (86, 1873), (98, 1732), (102, 1681), (106, 1660),

Gene: WalterMcMickey_78 Start: 47039, Stop: 46500, Start Num: 50
Candidate Starts for WalterMcMickey_78:
(Start: 37 @47093 has 1 MA's), (Start: 50 @47039 has 24 MA's), (67, 46994), (75, 46919), (87, 46811), (94, 46730), (98, 46697), (99, 46688), (104, 46649), (109, 46640), (112, 46619),

Gene: Wander_79 Start: 47253, Stop: 46720, Start Num: 55
Candidate Starts for Wander_79:
(Start: 41 @47298 has 3 MA's), (46, 47265), (Start: 55 @47253 has 136 MA's), (77, 47109), (78, 47091), (79, 47082), (87, 47022), (96, 46923), (98, 46908), (104, 46860), (109, 46851),

Gene: Westrich_48 Start: 27919, Stop: 28518, Start Num: 56
Candidate Starts for Westrich_48:
(Start: 56 @27919 has 34 MA's), (70, 27991), (76, 28048), (78, 28087), (80, 28111), (90, 28183), (96, 28255), (98, 28270), (101, 28306), (102, 28327), (108, 28357), (113, 28438), (118, 28507),

Gene: Wiks_90 Start: 47659, Stop: 47132, Start Num: 61
Candidate Starts for Wiks_90:
(28, 47776), (Start: 49 @47665 has 5 MA's), (Start: 50 @47662 has 24 MA's), (Start: 61 @47659 has 25 MA's), (67, 47623), (71, 47590), (75, 47548), (85, 47470), (87, 47440), (96, 47341), (97, 47338), (98, 47326), (99, 47317), (104, 47278), (109, 47269),

Gene: Wilbur_79 Start: 47256, Stop: 46723, Start Num: 55
Candidate Starts for Wilbur_79:
(Start: 41 @47301 has 3 MA's), (46, 47268), (Start: 55 @47256 has 136 MA's), (77, 47112), (78, 47094), (79, 47085), (87, 47025), (96, 46926), (98, 46911), (104, 46863), (109, 46854),

Gene: Wildflower_6 Start: 2193, Stop: 1603, Start Num: 51
Candidate Starts for Wildflower_6:
(Start: 51 @2193 has 31 MA's), (66, 2142), (67, 2139), (75, 2064), (77, 2040), (78, 2022), (86, 1968), (98, 1827), (102, 1776), (106, 1755),

Gene: Wile_75 Start: 47083, Stop: 46550, Start Num: 55
Candidate Starts for Wile_75:

(16, 47278), (19, 47236), (29, 47200), (31, 47188), (39, 47134), (Start: 55 @47083 has 136 MA's), (78, 46921), (87, 46852), (96, 46753), (98, 46738), (104, 46690), (109, 46681),

Gene: WileyE_41 Start: 27140, Stop: 27736, Start Num: 56
Candidate Starts for WileyE_41:
(Start: 56 @27140 has 34 MA's), (76, 27266), (78, 27305), (80, 27329), (90, 27401), (96, 27473), (97, 27476), (98, 27488), (101, 27524), (102, 27545), (108, 27575), (112, 27605), (113, 27656), (118, 27725),

Gene: Winget_6 Start: 2232, Stop: 1642, Start Num: 51
Candidate Starts for Winget_6:
(Start: 51 @2232 has 31 MA's), (66, 2181), (75, 2103), (77, 2079), (78, 2061), (86, 2007), (98, 1866), (102, 1815), (106, 1794),

Gene: Wizard007_76 Start: 46809, Stop: 46276, Start Num: 55
Candidate Starts for Wizard007_76:
(16, 47004), (19, 46962), (29, 46926), (31, 46914), (39, 46860), (Start: 55 @46809 has 136 MA's), (78, 46647), (87, 46578), (96, 46479), (98, 46464), (104, 46416), (109, 46407),

Gene: Wogge42_6 Start: 2236, Stop: 1646, Start Num: 51
Candidate Starts for Wogge42_6:
(17, 2413), (20, 2389), (35, 2314), (45, 2257), (Start: 48 @2245 has 1 MA's), (Start: 51 @2236 has 31 MA's), (66, 2185), (67, 2182), (75, 2107), (77, 2083), (80, 2041), (86, 2011), (98, 1870), (102, 1819), (106, 1798),

Gene: WorldCup_83 Start: 46962, Stop: 46414, Start Num: 53
Candidate Starts for WorldCup_83:
(1, 47544), (28, 47085), (42, 47004), (Start: 49 @46971 has 5 MA's), (Start: 50 @46968 has 24 MA's), (Start: 53 @46962 has 24 MA's), (77, 46812), (80, 46770), (85, 46755), (87, 46725), (94, 46644), (98, 46611), (104, 46563), (109, 46554),

Gene: Xena_75 Start: 47078, Stop: 46545, Start Num: 55
Candidate Starts for Xena_75:
(Start: 41 @47123 has 3 MA's), (46, 47090), (Start: 55 @47078 has 136 MA's), (78, 46916), (79, 46907), (87, 46847), (96, 46748), (98, 46733), (104, 46685), (109, 46676),

Gene: Yecey3_86 Start: 47082, Stop: 46528, Start Num: 48
Candidate Starts for Yecey3_86:
(9, 47352), (11, 47337), (24, 47196), (33, 47157), (Start: 48 @47082 has 1 MA's), (Start: 49 @47079 has 5 MA's), (Start: 50 @47076 has 24 MA's), (69, 47010), (77, 46926), (80, 46884), (85, 46869), (87, 46839), (94, 46758), (98, 46725), (99, 46716), (104, 46677), (109, 46668),

Gene: YoSam321_79 Start: 47254, Stop: 46721, Start Num: 55
Candidate Starts for YoSam321_79:
(Start: 41 @47299 has 3 MA's), (46, 47266), (Start: 55 @47254 has 136 MA's), (78, 47092), (79, 47083), (87, 47023), (96, 46924), (98, 46909), (104, 46861), (109, 46852),

Gene: Yokurt_90 Start: 47659, Stop: 47132, Start Num: 61
Candidate Starts for Yokurt_90:
(28, 47776), (Start: 49 @47665 has 5 MA's), (Start: 50 @47662 has 24 MA's), (Start: 61 @47659 has 25 MA's), (67, 47623), (71, 47590), (75, 47548), (85, 47470), (87, 47440), (96, 47341), (97, 47338), (98, 47326), (99, 47317), (104, 47278), (109, 47269),

Gene: YoyoKar_6 Start: 2154, Stop: 1564, Start Num: 51
Candidate Starts for YoyoKar_6:
(Start: 51 @2154 has 31 MA's), (66, 2103), (67, 2100), (75, 2025), (77, 2001), (80, 1959), (86, 1929), (98, 1788), (102, 1737), (106, 1716),

Gene: YungJamal_7 Start: 2521, Stop: 1931, Start Num: 51
Candidate Starts for YungJamal_7:
(Start: 51 @2521 has 31 MA's), (66, 2470), (67, 2467), (75, 2392), (77, 2368), (78, 2350), (86, 2296), (98, 2155), (102, 2104), (106, 2083),

Gene: Zaka_91 Start: 47659, Stop: 47132, Start Num: 61
Candidate Starts for Zaka_91:
(28, 47776), (Start: 49 @47665 has 5 MA's), (Start: 50 @47662 has 24 MA's), (Start: 61 @47659 has 25 MA's), (67, 47623), (71, 47590), (75, 47548), (85, 47470), (87, 47440), (96, 47341), (97, 47338), (98, 47326), (99, 47317), (104, 47278), (109, 47269),

Gene: Zakhe101_7 Start: 2545, Stop: 1955, Start Num: 51
Candidate Starts for Zakhe101_7:
(Start: 51 @2545 has 31 MA's), (66, 2494), (67, 2491), (75, 2416), (77, 2392), (78, 2374), (86, 2320), (98, 2179), (102, 2128), (106, 2107),

Gene: Zebo_6 Start: 2147, Stop: 1557, Start Num: 51
Candidate Starts for Zebo_6:
(Start: 51 @2147 has 31 MA's), (66, 2096), (67, 2093), (75, 2018), (77, 1994), (80, 1952), (86, 1922), (98, 1781), (102, 1730), (106, 1709),

Gene: Zhuangyuan_44 Start: 27617, Stop: 28213, Start Num: 56
Candidate Starts for Zhuangyuan_44:
(Start: 56 @27617 has 34 MA's), (76, 27740), (78, 27779), (84, 27812), (87, 27848), (90, 27875), (96, 27947), (98, 27962), (101, 27998), (102, 28019), (112, 28079),

Gene: Zimmer_81 Start: 48142, Stop: 47615, Start Num: 63
Candidate Starts for Zimmer_81:
(40, 48190), (Start: 63 @48142 has 27 MA's), (75, 48031), (80, 47968), (85, 47953), (87, 47923), (95, 47839), (96, 47824), (98, 47809), (104, 47761), (109, 47752),

Gene: Zixiang_39 Start: 27606, Stop: 28199, Start Num: 56
Candidate Starts for Zixiang_39:
(Start: 56 @27606 has 34 MA's), (70, 27672), (76, 27729), (78, 27768), (80, 27792), (90, 27864), (96, 27936), (98, 27951), (101, 27987), (102, 28008), (108, 28038), (113, 28119), (118, 28188),

Gene: Zulu_92 Start: 48036, Stop: 47509, Start Num: 63
Candidate Starts for Zulu_92:
(28, 48153), (Start: 58 @48042 has 1 MA's), (Start: 61 @48039 has 25 MA's), (Start: 63 @48036 has 27 MA's), (67, 48000), (71, 47967), (75, 47925), (85, 47847), (87, 47817), (88, 47802), (96, 47718), (104, 47655), (109, 47646),