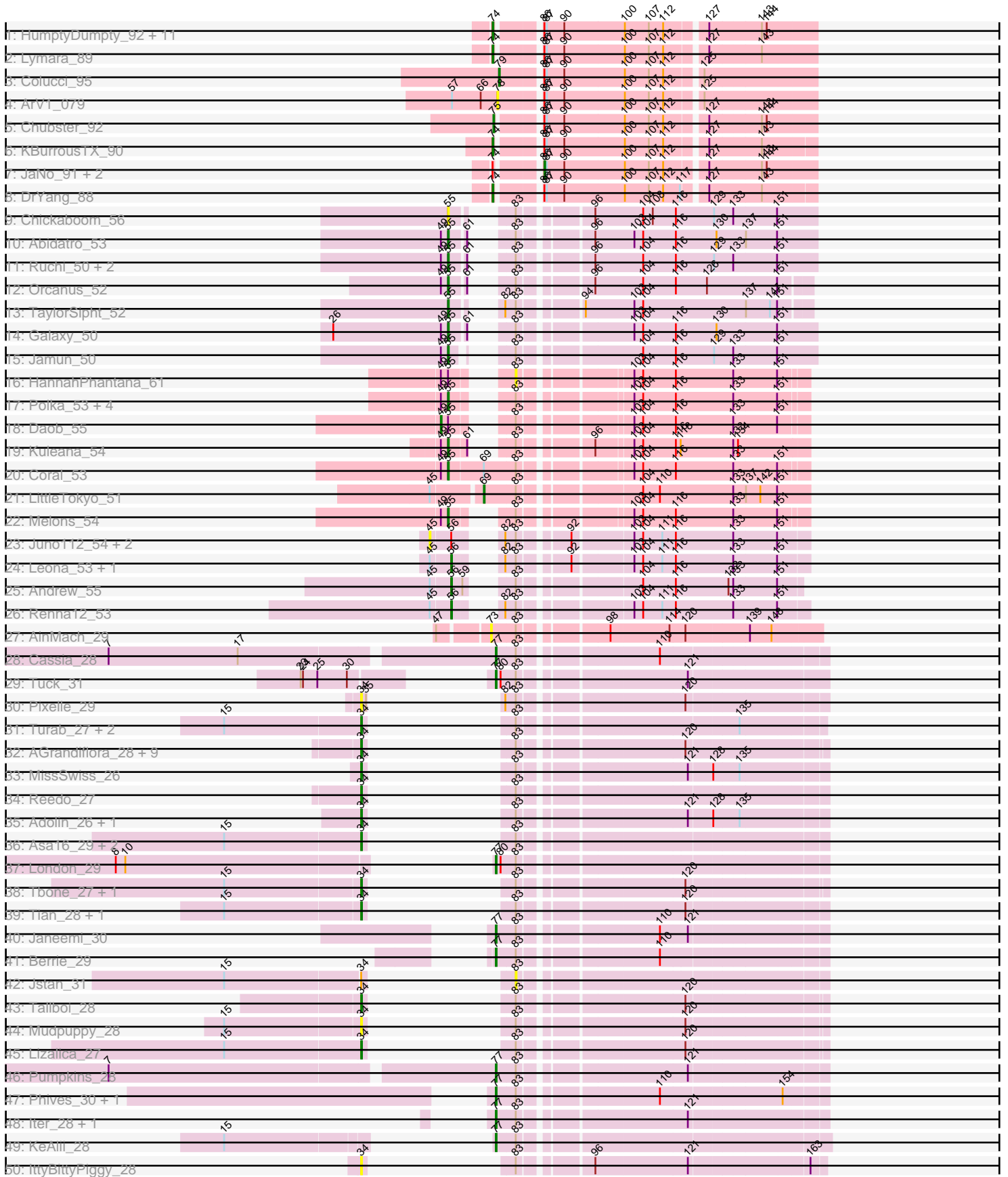
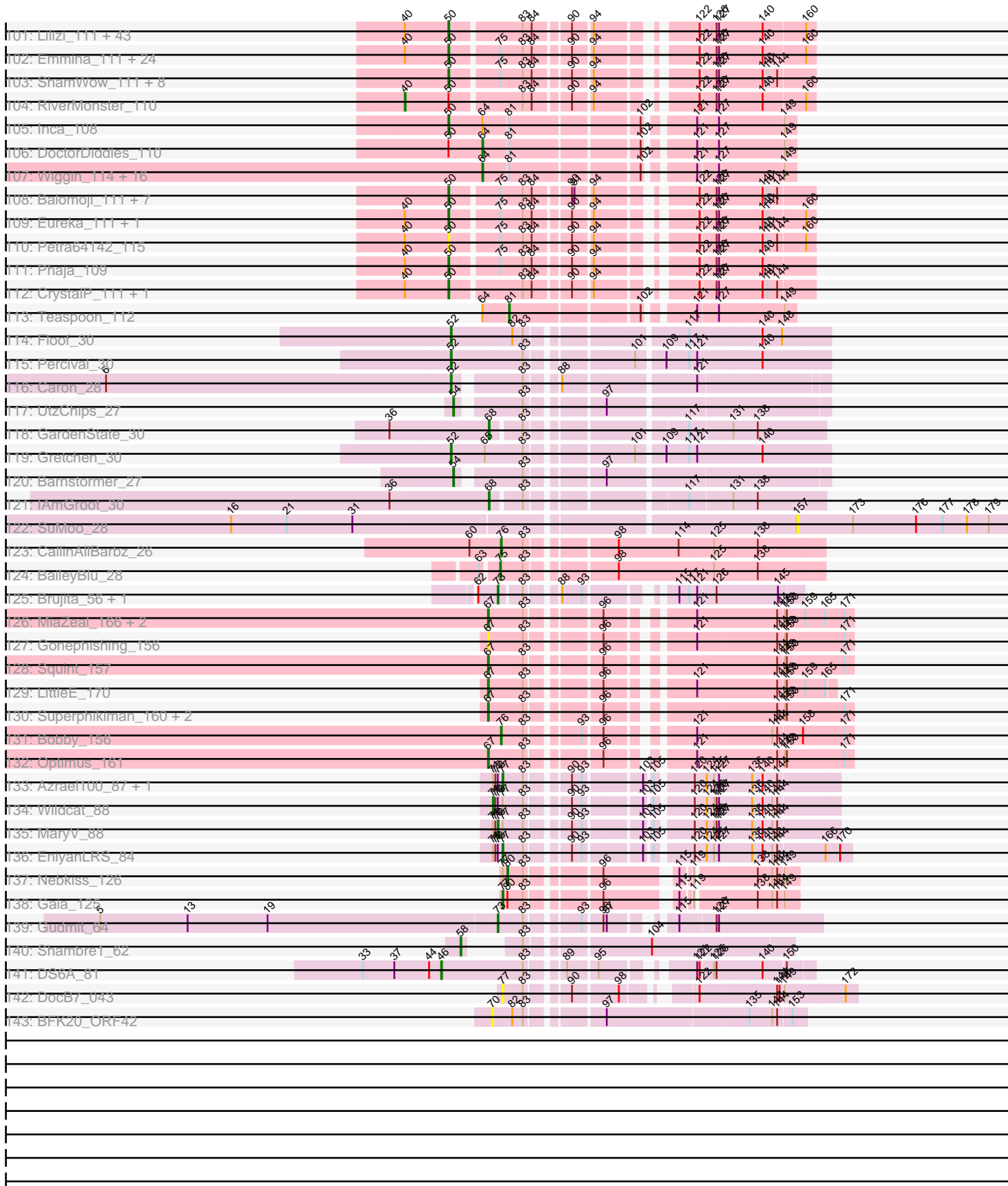


Pham 171129



Pham 171129



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 171129 Report

This analysis was run 07/09/24 on database version 566.

Pham number 171129 has 371 members, 51 are drafts.

Phages represented in each track:

- Track 1 : HumptyDumpty_92, RosiePosie_92, EdgarPoe_91, Conboy_90, Scavito_93, Linus_92, PrincessTrina_93, JayCookie_92, Chocolat_92, Tophat_93, Kabreeze_92, Chipper1996_930
- Track 2 : Lymara_89
- Track 3 : Colucci_95
- Track 4 : ArV1_079
- Track 5 : Chubster_92
- Track 6 : KBurrousTX_90
- Track 7 : JaNo_91, MoyaNatalis_91, Mordred_92
- Track 8 : DrYang_88
- Track 9 : Chickaboom_56
- Track 10 : Abidatro_53
- Track 11 : Ruchi_50, Vulpecula_50, Basilisk_51
- Track 12 : Orcanus_52
- Track 13 : TaylorSipht_52
- Track 14 : Galaxy_50
- Track 15 : Jamun_50
- Track 16 : HannahPhantana_61
- Track 17 : Polka_53, Lunar_54, Kepler_54, Amelia_53, Cote_55
- Track 18 : Daob_55
- Track 19 : Kuleana_54
- Track 20 : Coral_53
- Track 21 : LittleTokyo_51
- Track 22 : Melons_54
- Track 23 : Juno112_54, PhluffyCoco_54, KHumphrey_53
- Track 24 : Leona_53, RedFox_54
- Track 25 : Andrew_55
- Track 26 : Renna12_53
- Track 27 : AinMach_29
- Track 28 : Cassia_28
- Track 29 : Tuck_31
- Track 30 : Pixelle_29
- Track 31 : Turab_27, AEgle_27, Adumb2043_27
- Track 32 : AGrandiflora_28, JohnDoe_27, Simpson_29, Cyan_27, Kaylissa_27, Powerpuff_27, Tutumahutu_27, YesChef_27, Lego_27, Joemato_29
- Track 33 : MissSwiss_26
- Track 34 : Reedo_27

- Track 35 : Adolin_26, DrManhattan_26
- Track 36 : Asa16_29, Niobe_29, Eraser_29
- Track 37 : London_29
- Track 38 : Tbone_27, Warda_27
- Track 39 : Tian_28, Amyev_28
- Track 40 : Janeemi_30
- Track 41 : Berrie_29
- Track 42 : Jstan_31
- Track 43 : Tallboi_28
- Track 44 : Mudpuppy_28
- Track 45 : Lizalica_27
- Track 46 : Pumpkins_28
- Track 47 : Phives_30, Community_29
- Track 48 : Iter_28, Ascela_28
- Track 49 : KeAlii_28
- Track 50 : IttyBittyPiggy_28
- Track 51 : ObiToo_30
- Track 52 : Wildwest_28
- Track 53 : VResidence_28
- Track 54 : TforTroy_29
- Track 55 : Sue2_29
- Track 56 : Elezi_29
- Track 57 : Crewmate_31
- Track 58 : Nitro_28
- Track 59 : JuneStar_28
- Track 60 : Yang_28
- Track 61 : DrSierra_27
- Track 62 : Liebe_28, Maureen_28
- Track 63 : MaGuCo_26
- Track 64 : Snek_28, Tweety19_28
- Track 65 : Emotion_33
- Track 66 : JasmineDragon_33
- Track 67 : ShakeltOph_34, MiniMommy_34
- Track 68 : VroomVroom_33
- Track 69 : E6_49
- Track 70 : GTE7_45, Austin_56, HayZem_56, GMA7_46, Amore2_57
- Track 71 : Dakiti_54, Linetti_54, BigShaq_53, Chelms_53, BenoitCattle_55
- Track 72 : Msay19_58, Poland_60
- Track 73 : Jellybones_56
- Track 74 : RemRem_55, Barbochs_54, Breezic_54, CathyBurgh_53, John316_57, Hotorobo_54, Beaver_57, Butterball_57, Monty_53, Sam12_53, Boneham_58, Lizzo_54
- Track 75 : RoyalG_53, SteveFrench_52
- Track 76 : BirksAndSocks_59, GourdThymes_54, Squibbles_53, Adgers_56
- Track 77 : Ekhein_54, Exiguo_53, Flakey_53, Gorko_53
- Track 78 : Diabla_56
- Track 79 : Sombrero_54
- Track 80 : FelixAlejandro_58
- Track 81 : PokyPuppy_53
- Track 82 : PierreThree_53
- Track 83 : Eggsie_52
- Track 84 : Bianmat_51, Jormungandr_51, Luker_52, Sticker17_51, Neoevie_51, Guillaume_51, Woes_51, GalacticEye_51, Charianelly_51, Damp_49, Teal_51,

Minos_52, Shelley_51, Harambe_51, Lahirium_51, Lidong_51, Berries_51,
 Nimi13_51, MrWormie_51, Newt_52, Hello_51, Jams_51, Kaseim_51
 • Track 85 : Hail2Pitt_50, Anamika_51
 • Track 86 : Katyusha_48, Benczkowski14_48, Kvothe_48, Tredge_49, Teech_49,
 Teatealatte_49, Niagara_48
 • Track 87 : ASerpRocky_48
 • Track 88 : Philon9_49
 • Track 89 : Demosthenes_47
 • Track 90 : Hollow_49
 • Track 91 : Nadeem_65, GrandSlam_67, Parada_65, Hamood_67, Chop_67,
 Mulch_65, WheatThin_64
 • Track 92 : Ayotoya_66
 • Track 93 : Brylie_65, BetterKatz_65
 • Track 94 : Bock_67
 • Track 95 : Francois_65
 • Track 96 : NancyRae_64
 • Track 97 : Pimento_69
 • Track 98 : DelRio_66
 • Track 99 : RedWattleHog_124, Stormageddon_123
 • Track 100 : Glexan_110, SophKB_109, Dusk_108, Mindy_110, Harella_112,
 ABCat_108, Cactus_115, Tuco_112, BadStone_108, Rakim_112, IHOP_109,
 DrDrey_111, Kostya_111, Sotrice96_112, TeardropMSU_107, Daikon_112
 • Track 101 : Lilizi_111, Contagion_108, Pumpkin_112, Bruin_108,
 GoldenSpark_115, Cjw1_111, MPhalcon_112, Policronamos_115, Adnama_115,
 BugsBunny_110, Pharsalus_108, MISSy_112, Gage_113, Hopey_111, Sassay_106,
 Miniwave_106, StolenFromERC_113, Hoonter_114, Thresher_112, Elph10_110,
 ShereKhan_109, Willez_106, Bench_113, Phrux_107, Tomaszewski_106,
 GooberAzure_114, Stark_111, Paperbeatsrock_110, Tarkin_110, xkcd_115,
 AmericanBeauty_118, Youngblood_115, Mosby_108, HufflyPuff_113, Kanye_108,
 Misfit_112, Murica_115, Dumbo_111, Quallification_112, YassJohnny_108,
 Gemini_116, Argent26_115, Terminus_114, Czyszczo1_111
 • Track 102 : Emmina_111, Phaux_113, NelitzaMV_108, Easy2Say_111,
 StellaBean_109, Simpliphy_109, Moldemort_113, Maxxinista_113, NoSleep_111,
 FireRed_114, Rimmer_109, Murphy_110, PhatBacter_114, HanKaySha_111,
 Elite2014_110, Buck_112, Saints25_107, Highbury_107, OrionPax_109,
 Lilpickle_110, ChosenOne_111, Lilac_112, Palpatine_112, MadamMonkfish_110,
 Nala_113
 • Track 103 : ShamWow_111, SirDuracell_111, Gator_109, Cookies_108,
 Henry_109, Bask21_111, Command613_113, Myrale_111, Toto_109
 • Track 104 : RiverMonster_110
 • Track 105 : Inca_108
 • Track 106 : DoctorDiddles_110
 • Track 107 : Wiggin_114, Porky_110, Nimrod_112, Goku_111, Stank_114,
 BigBubba_113, JeTaime_110, Kimchi_116, Icee_113, TBrady12_115, 244_113,
 BaboJay_111, Filch_114, Goldilocks_115, Xandras_111, Marshmallow_110,
 Holt_117
 • Track 108 : Balomoji_111, Amao_111, Traaww1_107, ChotaBhai_111,
 Barbarian_110, Flypotenuse_107, Pat3_108, Asriel_109
 • Track 109 : Eureka_111, Manda_112
 • Track 110 : Petra64142_115
 • Track 111 : Phaja_109
 • Track 112 : CrystalP_111, BilboSwaggins_110
 • Track 113 : Teaspoon_112

- Track 114 : Floof_30
- Track 115 : Percival_30
- Track 116 : Caron_28
- Track 117 : UtzChips_27
- Track 118 : GardenState_30
- Track 119 : Gretchen_30
- Track 120 : Barnstormer_27
- Track 121 : IAmGroot_30
- Track 122 : SuMoo_28
- Track 123 : CallinAllBarbz_26
- Track 124 : BaileyBlu_28
- Track 125 : Brujita_56, Island3_56
- Track 126 : MiaZeal_166, Lucky2013_159, Porcelain_163
- Track 127 : Gonephishing_156
- Track 128 : Squint_157
- Track 129 : LittleE_170
- Track 130 : Superphikiman_160, Courthouse_159, Ariel_162
- Track 131 : Bobby_156
- Track 132 : Optimus_161
- Track 133 : Azrael100_87, Cosmo_88
- Track 134 : Wildcat_88
- Track 135 : MaryV_88
- Track 136 : EniyanLRS_84
- Track 137 : Nebkiss_126
- Track 138 : Gaia_125
- Track 139 : Gudmit_64
- Track 140 : Shambre1_62
- Track 141 : DS6A_81
- Track 142 : DocB7_043
- Track 143 : BFK20_ORF42

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

The start number called the most often in the published annotations is 50, it was called in 101 of the 320 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ABCat_108, Adnama_115, Amao_111, AmericanBeauty_118, Argent26_115, Asriel_109, BadStone_108, Balomoji_111, Barbarian_110, Bask21_111, Bench_113, BilboSwaggins_110, Bruin_108, Buck_112, BugsBunny_110, Cactus_115, ChosenOne_111, ChotaBhai_111, Cjw1_111, Command613_113, Contagion_108, Cookies_108, CrystalP_111, Czyszczo1_111, Daikon_112, DrDrey_111, Dumbo_111, Dusk_108, Easy2Say_111, Elite2014_110, Elph10_110, Emmina_111, Eureka_111, FireRed_114, Flypotenuse_107, Gage_113, Gator_109, Gemini_116, Glexan_110, GoldenSpark_115, GooberAzure_114, HanKaySha_111, Harella_112, Henry_109, Highbury_107, Hoonter_114, Hopey_111, HufflyPuff_113, IHOP_109, Inca_108, Kanye_108, Kostya_111, Lilac_112, Lilizi_111, Lilpickle_110, MISSy_112, MPhalcon_112, MadamMonkfish_110, Manda_112, Maxxinista_113, Mindy_110, Miniwave_106, Misfit_112, Moldemort_113, Mosby_108, Murica_115, Murphy_110, Myrale_111, Nala_113, NelitzaMV_108, NoSleep_111, OrionPax_109,

Palpatine_112, Paperbeatsrock_110, Pat3_108, Petra64142_115, Phaja_109, Pharsalus_108, PhatBacter_114, Phaux_113, Phrux_107, Policronamos_115, Pumpkin_112, Quallification_112, Rakim_112, Rimmer_109, Saints25_107, Sassay_106, ShamWow_111, ShereKhan_109, Simpliphy_109, SirDuracell_111, SophKB_109, Sotrice96_112, Stark_111, StellaBean_109, StolenFromERC_113, Tarkin_110, TeardropMSU_107, Terminus_114, Thresher_112, Tomaszewski_106, Toto_109, Traaww1_107, Tuco_112, Willez_106, YassJohnny_108, Youngblood_115, xkcd_115,

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

- DoctorDiddles_110, RiverMonster_110,

Genes that do not have the "Most Annotated" start:

- 244_113, AEgle_27, AGrandiflora_28, ASerpRocky_48, Abidatro_53, Adgers_56, Adolin_26, Adumb2043_27, AinMach_29, Amelia_53, Amore2_57, Amyev_28, Anamika_51, Andrew_55, ArV1_079, Ariel_162, Asa16_29, Ascela_28, Austin_56, Ayotoya_66, Azrael100_87, BFK20_ORF42, BaboJay_111, BaileyBlu_28, Barbochs_54, Barnstormer_27, Basilisk_51, Beaver_57, Benczkowski14_48, BenoitCattle_55, Berrie_29, Berries_51, BetterKatz_65, Bianmat_51, BigBubba_113, BigShaq_53, BirksAndSocks_59, Bobby_156, Bock_67, Boneham_58, Breezic_54, Brujita_56, Brylie_65, Butterball_57, CallinAllBarbz_26, Caron_28, Cassia_28, CathyBurgh_53, Charianelly_51, Chelms_53, Chickaboom_56, Chipper1996_930, Chocolat_92, Chop_67, Chubster_92, Colucci_95, Community_29, Conboy_90, Coral_53, Cosmo_88, Cote_55, Courthouse_159, Crewmate_31, Cyan_27, DS6A_81, Dakiti_54, Damp_49, Daob_55, DelRio_66, Demosthenes_47, Diabla_56, DocB7_043, DrManhattan_26, DrSierra_27, DrYang_88, E6_49, EdgarPoe_91, Eggsie_52, Ekhein_54, Elezi_29, Emotion_33, EniyanLRS_84, Eraser_29, Exiguo_53, FelixAlejandro_58, Filch_114, Flakey_53, Floof_30, Francois_65, GMA7_46, GTE7_45, Gaia_125, GalacticEye_51, Galaxy_50, GardenState_30, Goku_111, Goldilocks_115, Gonephishing_156, Gorko_53, GourdThymes_54, GrandSlam_67, Gretchen_30, Gudmit_64, Guillaume_51, Hail2Pitt_50, Hamood_67, HannahPhantana_61, Harambe_51, HayZem_56, Hello_51, Hollow_49, Holt_117, Hotorobo_54, HumptyDumpty_92, IAmGroot_30, Icee_113, Island3_56, Iter_28, IttyBittyPiggy_28, JaNo_91, Jams_51, Jamun_50, Janeemi_30, JasmineDragon_33, JayCookie_92, JeTaime_110, Jellybones_56, Joemato_29, John316_57, JohnDoe_27, Jormungandr_51, Jstan_31, JuneStar_28, Juno112_54, KBurrousTX_90, KHumphrey_53, Kabreeze_92, Kaseim_51, Katyusha_48, Kaylissa_27, KeAlii_28, Kepler_54, Kimchi_116, Kuleana_54, Kvothe_48, Lahirium_51, Lego_27, Leona_53, Lidong_51, Liebe_28, Linetti_54, Linus_92, LittleE_170, LittleTokyo_51, Lizalica_27, Lizzo_54, London_29, Lucky2013_159, Luker_52, Lunar_54, Lymara_89, MaGuCo_26, Marshmallow_110, MaryV_88, Maureen_28, Melons_54, MiaZeal_166, MiniMommy_34, Minos_52, MissSwiss_26, Monty_53, Mordred_92, MoyaNatalis_91, MrWormie_51, Msay19_58, Mudpuppy_28, Mulch_65, Nadeem_65, NancyRae_64, Nebkiss_126, Neoevie_51, Newt_52, Niagara_48, Nimi13_51, Nimrod_112, Niobe_29, Nitro_28, ObiToo_30, Optimus_161, Orcanus_52, Parada_65, Percival_30, Pilon9_49, Phives_30, PhluffyCoco_54, PierreThree_53, Pimento_69, Pixelle_29, PokyPuppy_53, Poland_60, Polka_53, Porcelain_163, Porky_110, Powerpuff_27, PrincessTrina_93, Pumpkins_28, RedFox_54, RedWattleHog_124, Reedo_27, RemRem_55, Renna12_53, RosiePosie_92, RoyalG_53, Ruchi_50, Sam12_53, Scavito_93, ShakeltOph_34, Shambre1_62, Shelley_51, Simpson_29, Snek_28, Sombrero_54, Squibbles_53, Squint_157, Stank_114, SteveFrench_52, Sticker17_51, Stormageddon_123, SuMoo_28, Sue2_29, Superphikiman_160, TBrady12_115, Tallboi_28,

TaylorSipht_52, Tbone_27, Teal_51, Teaspoon_112, Teatealatte_49, Teech_49, TforTroy_29, Tian_28, Tophat_93, Tredge_49, Tuck_31, Turab_27, Tutumahutu_27, Tweety19_28, UtzChips_27, VResidence_28, VroomVroom_33, Vulpecula_50, Warda_27, WheatThin_64, Wiggin_114, Wildcat_88, Wildwest_28, Woes_51, Xandras_111, Yang_28, YesChef_27,

Summary by start number:

Start 29:

- Found in 2 of 371 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 320
- Called 50.0% of time when present
- Phage (with cluster) where this start called: ASerpRocky_48 (CS4),

Start 34:

- Found in 36 of 371 (9.7%) of genes in pham
- Manual Annotations of this start: 24 of 320
- Called 94.4% of time when present
- Phage (with cluster) where this start called: AEgle_27 (AZ1), AGrandiflora_28 (AZ1), Adolin_26 (AZ1), Adumb2043_27 (AZ1), Amyev_28 (AZ1), Asa16_29 (AZ1), Cyan_27 (AZ1), DrManhattan_26 (AZ1), DrSierra_27 (AZ1), Eraser_29 (AZ1), IttyBittyPiggy_28 (AZ1), Joemato_29 (AZ1), JohnDoe_27 (AZ1), Kaylissa_27 (AZ1), Lego_27 (AZ1), Lizalica_27 (AZ1), MissSwiss_26 (AZ1), Mudpuppy_28 (AZ1), Niobe_29 (AZ1), Nitro_28 (AZ1), Pixelle_29 (AZ1), Powerpuff_27 (AZ1), Reedo_27 (AZ1), Simpson_29 (AZ1), Snek_28 (AZ3), Tallboi_28 (AZ1), Tbone_27 (AZ1), Tian_28 (AZ1), Turab_27 (AZ1), Tutumahutu_27 (AZ1), Tweety19_28 (AZ3), VResidence_28 (AZ1), Warda_27 (AZ1), YesChef_27 (AZ1),

Start 40:

- Found in 92 of 371 (24.8%) of genes in pham
- Manual Annotations of this start: 1 of 320
- Called 1.1% of time when present
- Phage (with cluster) where this start called: RiverMonster_110 (E),

Start 41:

- Found in 2 of 371 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 320
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Demosthenes_47 (CS4),

Start 45:

- Found in 8 of 371 (2.2%) of genes in pham
- No Manual Annotations of this start.
- Called 37.5% of time when present
- Phage (with cluster) where this start called: Juno112_54 (AS3), KHumphrey_53 (AS3), PhluffyCoco_54 (AS3),

Start 46:

- Found in 1 of 371 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 320
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DS6A_81 (singleton),

Start 49:

- Found in 17 of 371 (4.6%) of genes in pham
- Manual Annotations of this start: 1 of 320
- Called 5.9% of time when present
- Phage (with cluster) where this start called: Daob_55 (AS2),

Start 50:

- Found in 111 of 371 (29.9%) of genes in pham
- Manual Annotations of this start: 101 of 320
- Called 98.2% of time when present
- Phage (with cluster) where this start called: ABCat_108 (E), Adnama_115 (E), Amao_111 (E), AmericanBeauty_118 (E), Argent26_115 (E), Asriel_109 (E), BadStone_108 (E), Balomoji_111 (E), Barbarian_110 (E), Bask21_111 (E), Bench_113 (E), BilboSwaggins_110 (E), Bruin_108 (E), Buck_112 (E), BugsBunny_110 (E), Cactus_115 (E), ChosenOne_111 (E), ChotaBhai_111 (E), Cjw1_111 (E), Command613_113 (E), Contagion_108 (E), Cookies_108 (E), CrystalP_111 (E), Czyszczonek_111 (E), Daikon_112 (E), DrDrey_111 (E), Dumbo_111 (E), Dusk_108 (E), Easy2Say_111 (E), Elite2014_110 (E), Elph10_110 (E), Emmina_111 (E), Eureka_111 (E), FireRed_114 (E), Flypotenuse_107 (E), Gage_113 (E), Gator_109 (E), Gemini_116 (E), Glexan_110 (E), GoldenSpark_115 (E), GooberAzure_114 (E), HanKaySha_111 (E), Harella_112 (E), Henry_109 (E), Highbury_107 (E), Hoonter_114 (E), Hopey_111 (E), HufflyPuff_113 (E), IHOP_109 (E), Inca_108 (E), Kanye_108 (E), Kostya_111 (E), Lilac_112 (E), Lilizi_111 (E), Lilpickle_110 (E), MISSy_112 (E), MPhalcon_112 (E), MadamMonkfish_110 (E), Manda_112 (E), Maxxinista_113 (E), Mindy_110 (E), Miniwave_106 (E), Misfit_112 (E), Moldemort_113 (E), Mosby_108 (E), Murica_115 (E), Murphy_110 (E), Myrale_111 (E), Nala_113 (E), NelitzaMV_108 (E), NoSleep_111 (E), OrionPax_109 (E), Palpatine_112 (E), Paperbeatsrock_110 (E), Pat3_108 (E), Petra64142_115 (E), Phaja_109 (E), Pharsalus_108 (E), PhatBacter_114 (E), Phaux_113 (E), Phrux_107 (E), Policronamos_115 (E), Pumpkin_112 (E), Qualification_112 (E), Rakim_112 (E), Rimmer_109 (E), Saints25_107 (E), Sassay_106 (E), ShamWow_111 (E), ShereKhan_109 (E), Simpliphy_109 (E), SirDuracell_111 (E), SophKB_109 (E), Sotrice96_112 (E), Stark_111 (E), StellaBean_109 (E), StolenFromERC_113 (E), Tarkin_110 (E), TeardropMSU_107 (E), Terminus_114 (E), Thresher_112 (E), Tomaszewski_106 (E), Toto_109 (E), Traaww1_107 (E), Tuco_112 (E), Willez_106 (E), YassJohnny_108 (E), Youngblood_115 (E), xkcd_115 (E),

Start 52:

- Found in 4 of 371 (1.1%) of genes in pham
- Manual Annotations of this start: 4 of 320
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Caron_28 (EH), Floof_30 (EH), Gretchen_30 (EH), Percival_30 (EH),

Start 54:

- Found in 2 of 371 (0.5%) of genes in pham
- Manual Annotations of this start: 2 of 320
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Barnstormer_27 (EH), UtzChips_27 (EH),

Start 55:

- Found in 19 of 371 (5.1%) of genes in pham

- Manual Annotations of this start: 16 of 320
- Called 89.5% of time when present
- Phage (with cluster) where this start called: Abidatro_53 (AS1), Amelia_53 (AS2), Basilisk_51 (AS1), Chickaboom_56 (AS1), Coral_53 (AS2), Cote_55 (AS2), Galaxy_50 (AS1), Jamun_50 (AS1), Kepler_54 (AS2), Kuleana_54 (AS2), Lunar_54 (AS2), Melons_54 (AS2), Orcanus_52 (AS1), Polka_53 (AS2), Ruchi_50 (AS1), TaylorSipt_52 (AS1), Vulpecula_50 (AS1),

Start 56:

- Found in 7 of 371 (1.9%) of genes in pham
- Manual Annotations of this start: 4 of 320
- Called 57.1% of time when present
- Phage (with cluster) where this start called: Andrew_55 (AS3), Leona_53 (AS3), RedFox_54 (AS3), Renna12_53 (AS3),

Start 58:

- Found in 1 of 371 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 320
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Shambre1_62 (singleton),

Start 64:

- Found in 20 of 371 (5.4%) of genes in pham
- Manual Annotations of this start: 18 of 320
- Called 90.0% of time when present
- Phage (with cluster) where this start called: 244_113 (E), BaboJay_111 (E), BigBubba_113 (E), DoctorDiddles_110 (E), Filch_114 (E), Goku_111 (E), Goldilocks_115 (E), Holt_117 (E), Icee_113 (E), JeTaime_110 (E), Kimchi_116 (E), Marshmallow_110 (E), Nimrod_112 (E), Porky_110 (E), Stank_114 (E), TBrady12_115 (E), Wiggin_114 (E), Xandras_111 (E),

Start 67:

- Found in 56 of 371 (15.1%) of genes in pham
- Manual Annotations of this start: 35 of 320
- Called 71.4% of time when present
- Phage (with cluster) where this start called: Amore2_57 (CS1), Anamika_51 (CS3), Ariel_162 (J), Austin_56 (CS1), Berries_51 (CS3), Bianmat_51 (CS3), Charianelly_51 (CS3), Courthouse_159 (J), Damp_49 (CS3), GMA7_46 (CS1), GTE7_45 (CS1), GalacticEye_51 (CS3), Gonephishing_156 (J), Guillaume_51 (CS3), Hail2Pitt_50 (CS3), Harambe_51 (CS3), HayZem_56 (CS1), Hello_51 (CS3), Jams_51 (CS3), Jormungandr_51 (CS3), Kaseim_51 (CS3), Lahirium_51 (CS3), Lidong_51 (CS3), LittleE_170 (J), Lucky2013_159 (J), Luker_52 (CS3), MiaZeal_166 (J), Minos_52 (CS3), MrWormie_51 (CS3), Neoevie_51 (CS3), Newt_52 (CS3), Nimi13_51 (CS3), Optimus_161 (J), Porcelain_163 (J), Shelley_51 (CS3), Squint_157 (J), Sticker17_51 (CS3), Superphikiman_160 (J), Teal_51 (CS3), Woes_51 (CS3),

Start 68:

- Found in 2 of 371 (0.5%) of genes in pham
- Manual Annotations of this start: 2 of 320
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GardenState_30 (EH), IAmGroot_30 (EH),

Start 69:

- Found in 38 of 371 (10.2%) of genes in pham
- Manual Annotations of this start: 24 of 320
- Called 81.6% of time when present
- Phage (with cluster) where this start called: Adgers_56 (CS2), Barbochs_54 (CS2), Beaver_57 (CS2), BenoitCattle_55 (CS2), BigShaq_53 (CS2), BirksAndSocks_59 (CS2), Boneham_58 (CS2), Breezic_54 (CS2), Butterball_57 (CS2), CathyBurgh_53 (CS2), Chelms_53 (CS2), Dakiti_54 (CS2), Eggsie_52 (CS2), FelixAlejandro_58 (CS2), GourdThymes_54 (CS2), Hotorobo_54 (CS2), Jellybones_56 (CS2), John316_57 (CS2), Linetti_54 (CS2), LittleTokyo_51 (AS2), Lizzo_54 (CS2), Monty_53 (CS2), Msay19_58 (CS2), PokyPuppy_53 (CS2), Poland_60 (CS2), RemRem_55 (CS2), RoyalG_53 (CS2), Sam12_53 (CS2), Sombrero_54 (CS2), Squibbles_53 (CS2), SteveFrench_52 (CS2),

Start 70:

- Found in 1 of 371 (0.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BFK20_ORF42 (singleton),

Start 71:

- Found in 13 of 371 (3.5%) of genes in pham
- Manual Annotations of this start: 3 of 320
- Called 23.1% of time when present
- Phage (with cluster) where this start called: Diabla_56 (CS2), PierreThree_53 (CS2), Wildcat_88 (V),

Start 73:

- Found in 53 of 371 (14.3%) of genes in pham
- Manual Annotations of this start: 19 of 320
- Called 41.5% of time when present
- Phage (with cluster) where this start called: AinMach_29 (AZ), Ayotoya_66 (DI), Bock_67 (DI), Brujita_56 (I1), Chop_67 (DI), DelRio_66 (DI), Ekhein_54 (CS2), Exiguo_53 (CS2), Flakey_53 (CS2), Francois_65 (DI), Gorko_53 (CS2), GrandSlam_67 (DI), Gudmit_64 (singleton), Hamood_67 (DI), Island3_56 (I1), MaryV_88 (V), Mulch_65 (DI), Nadeem_65 (DI), NancyRae_64 (DI), Parada_65 (DI), Pimento_69 (DI), WheatThin_64 (DI),

Start 74:

- Found in 18 of 371 (4.9%) of genes in pham
- Manual Annotations of this start: 15 of 320
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Chipper1996_930 (AR), Chocolat_92 (AR), Conboy_90 (AR), DrYang_88 (AR), EdgarPoe_91 (AR), HumptyDumpty_92 (AR), JayCookie_92 (AR), KBurroustX_90 (AR), Kabreeze_92 (AR), Linus_92 (AR), Lymara_89 (AR), PrincessTrina_93 (AR), RosiePosie_92 (AR), Scavito_93 (AR), Tophat_93 (AR),

Start 75:

- Found in 64 of 371 (17.3%) of genes in pham
- Manual Annotations of this start: 2 of 320
- Called 3.1% of time when present
- Phage (with cluster) where this start called: BaileyBlu_28 (FP), Chubster_92 (AR),

Start 76:

- Found in 9 of 371 (2.4%) of genes in pham
- Manual Annotations of this start: 7 of 320
- Called 77.8% of time when present
- Phage (with cluster) where this start called: Bobby_156 (J), CallinAllBarbz_26 (FP), Emotion_33 (AZ4), JasmineDragon_33 (AZ4), RedWattleHog_124 (DX), Stormageddon_123 (DX), VroomVroom_33 (AZ4),

Start 77:

- Found in 40 of 371 (10.8%) of genes in pham
- Manual Annotations of this start: 30 of 320
- Called 87.5% of time when present
- Phage (with cluster) where this start called: Ascela_28 (AZ1), Azrael100_87 (V), Benczkowski14_48 (CS4), Berrie_29 (AZ1), Cassia_28 (AZ1), Community_29 (AZ1), Cosmo_88 (V), Crewmate_31 (AZ1), DocB7_043 (singleton), Elezi_29 (AZ1), EniyanLRS_84 (V), Gaia_125 (X), Hollow_49 (CS4), Iter_28 (AZ1), Janeemi_30 (AZ1), JuneStar_28 (AZ1), Katyusha_48 (CS4), KeAlii_28 (AZ1), Kvothe_48 (CS4), Liebe_28 (AZ2), London_29 (AZ1), MaGuCo_26 (AZ2), Maureen_28 (AZ2), Niagara_48 (CS4), ObiToo_30 (AZ1), Philon9_49 (CS4), Phives_30 (AZ1), Pumpkins_28 (AZ1), Sue2_29 (AZ1), Teatealatte_49 (CS4), Teech_49 (CS4), TforTroy_29 (AZ1), Tredge_49 (CS4), Tuck_31 (AZ1), Yang_28 (AZ1),

Start 78:

- Found in 1 of 371 (0.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ArV1_079 (AR),

Start 79:

- Found in 1 of 371 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 320
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Colucci_95 (AR),

Start 80:

- Found in 5 of 371 (1.3%) of genes in pham
- Manual Annotations of this start: 1 of 320
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Nebkiss_126 (X),

Start 81:

- Found in 20 of 371 (5.4%) of genes in pham
- Manual Annotations of this start: 1 of 320
- Called 5.0% of time when present
- Phage (with cluster) where this start called: Teaspoon_112 (E),

Start 83:

- Found in 326 of 371 (87.9%) of genes in pham
- Manual Annotations of this start: 3 of 320
- Called 2.1% of time when present
- Phage (with cluster) where this start called: BetterKatz_65 (DI), Brylie_65 (DI), HannahPhantana_61 (AS2), Jstan_31 (AZ1), MiniMommy_34 (AZ4), ShakeltOph_34

(AZ4), Wildwest_28 (AZ1),

Start 85:

- Found in 1 of 371 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 320
- Called 100.0% of time when present
- Phage (with cluster) where this start called: E6_49 (BW),

Start 86:

- Found in 21 of 371 (5.7%) of genes in pham
- Manual Annotations of this start: 1 of 320
- Called 14.3% of time when present
- Phage (with cluster) where this start called: JaNo_91 (AR), Mordred_92 (AR), MoyaNatalis_91 (AR),

Start 157:

- Found in 1 of 371 (0.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: SuMoo_28 (EH),

Summary by clusters:

There are 24 clusters represented in this pham: FP, singleton, DI, BW, DX, I1, CS4, CS1, CS3, CS2, AS3, AS2, AS1, E, EH, J, AR, V, X, AZ, AZ1, AZ2, AZ3, AZ4,

Info for manual annotations of cluster AR:

- Start number 74 was manually annotated 15 times for cluster AR.
- Start number 75 was manually annotated 1 time for cluster AR.
- Start number 79 was manually annotated 1 time for cluster AR.
- Start number 86 was manually annotated 1 time for cluster AR.

Info for manual annotations of cluster AS1:

- Start number 55 was manually annotated 8 times for cluster AS1.

Info for manual annotations of cluster AS2:

- Start number 49 was manually annotated 1 time for cluster AS2.
- Start number 55 was manually annotated 8 times for cluster AS2.
- Start number 69 was manually annotated 1 time for cluster AS2.

Info for manual annotations of cluster AS3:

- Start number 56 was manually annotated 4 times for cluster AS3.

Info for manual annotations of cluster AZ1:

- Start number 34 was manually annotated 22 times for cluster AZ1.
- Start number 77 was manually annotated 16 times for cluster AZ1.
- Start number 83 was manually annotated 1 time for cluster AZ1.

Info for manual annotations of cluster AZ2:

- Start number 77 was manually annotated 3 times for cluster AZ2.

Info for manual annotations of cluster AZ3:

- Start number 34 was manually annotated 2 times for cluster AZ3.

Info for manual annotations of cluster AZ4:

- Start number 76 was manually annotated 3 times for cluster AZ4.

Info for manual annotations of cluster BW:

- Start number 85 was manually annotated 1 time for cluster BW.

Info for manual annotations of cluster CS1:

- Start number 67 was manually annotated 3 times for cluster CS1.

Info for manual annotations of cluster CS2:

- Start number 69 was manually annotated 23 times for cluster CS2.
- Start number 71 was manually annotated 2 times for cluster CS2.
- Start number 73 was manually annotated 4 times for cluster CS2.

Info for manual annotations of cluster CS3:

- Start number 67 was manually annotated 23 times for cluster CS3.

Info for manual annotations of cluster CS4:

- Start number 29 was manually annotated 1 time for cluster CS4.
- Start number 41 was manually annotated 1 time for cluster CS4.
- Start number 77 was manually annotated 7 times for cluster CS4.

Info for manual annotations of cluster DI:

- Start number 73 was manually annotated 11 times for cluster DI.
- Start number 83 was manually annotated 2 times for cluster DI.

Info for manual annotations of cluster DX:

- Start number 76 was manually annotated 2 times for cluster DX.

Info for manual annotations of cluster E:

- Start number 40 was manually annotated 1 time for cluster E.
- Start number 50 was manually annotated 101 times for cluster E.
- Start number 64 was manually annotated 18 times for cluster E.
- Start number 81 was manually annotated 1 time for cluster E.

Info for manual annotations of cluster EH:

- Start number 52 was manually annotated 4 times for cluster EH.
- Start number 54 was manually annotated 2 times for cluster EH.
- Start number 68 was manually annotated 2 times for cluster EH.

Info for manual annotations of cluster FP:

- Start number 75 was manually annotated 1 time for cluster FP.
- Start number 76 was manually annotated 1 time for cluster FP.

Info for manual annotations of cluster I1:

- Start number 73 was manually annotated 2 times for cluster I1.

Info for manual annotations of cluster J:

- Start number 67 was manually annotated 9 times for cluster J.
- Start number 76 was manually annotated 1 time for cluster J.

Info for manual annotations of cluster V:

- Start number 71 was manually annotated 1 time for cluster V.
- Start number 73 was manually annotated 1 time for cluster V.
- Start number 77 was manually annotated 3 times for cluster V.

Info for manual annotations of cluster X:

- Start number 77 was manually annotated 1 time for cluster X.
- Start number 80 was manually annotated 1 time for cluster X.

Gene Information:

Gene: 244_113 Start: 63341, Stop: 63673, Start Num: 64

Candidate Starts for 244_113:

(Start: 64 @63341 has 18 MA's), (Start: 81 @63371 has 1 MA's), (102, 63515), (121, 63563), (127, 63587), (149, 63659),

Gene: ABCat_108 Start: 64031, Stop: 64405, Start Num: 50

Candidate Starts for ABCat_108:

(Start: 40 @63977 has 1 MA's), (Start: 50 @64031 has 101 MA's), (Start: 75 @64085 has 2 MA's), (Start: 83 @64112 has 3 MA's), (84, 64121), (90, 64160), (94, 64181), (122, 64274), (126, 64292), (127, 64295), (140, 64343), (141, 64349), (144, 64361),

Gene: AEgle_27 Start: 22275, Stop: 22640, Start Num: 34

Candidate Starts for AEgle_27:

(15, 22110), (Start: 34 @22275 has 24 MA's), (Start: 83 @22299 has 3 MA's), (135, 22542),

Gene: AGrandiflora_28 Start: 22305, Stop: 22670, Start Num: 34

Candidate Starts for AGrandiflora_28:

(Start: 34 @22305 has 24 MA's), (Start: 83 @22329 has 3 MA's), (120, 22512),

Gene: ASerpRocky_48 Start: 48513, Stop: 47953, Start Num: 29

Candidate Starts for ASerpRocky_48:

(1, 48906), (2, 48882), (3, 48879), (9, 48792), (11, 48783), (12, 48726), (13, 48711), (14, 48681), (20, 48600), (21, 48588), (28, 48519), (Start: 29 @48513 has 1 MA's), (Start: 41 @48423 has 1 MA's), (48, 48393), (Start: 67 @48339 has 35 MA's), (Start: 77 @48321 has 30 MA's), (Start: 83 @48297 has 3 MA's), (99, 48192), (128, 48090), (149, 48021),

Gene: Abidatro_53 Start: 33792, Stop: 34178, Start Num: 55

Candidate Starts for Abidatro_53:

(Start: 49 @33783 has 1 MA's), (Start: 55 @33792 has 16 MA's), (61, 33810), (Start: 83 @33831 has 3 MA's), (96, 33906), (103, 33954), (104, 33963), (116, 34002), (130, 34053), (137, 34089), (151, 34128),

Gene: Adgers_56 Start: 47963, Stop: 47601, Start Num: 69

Candidate Starts for Adgers_56:

(Start: 69 @47963 has 24 MA's), (Start: 73 @47954 has 19 MA's), (Start: 83 @47924 has 3 MA's), (96, 47849), (122, 47759), (128, 47732), (136, 47699), (144, 47669), (161, 47633),

Gene: Adnama_115 Start: 63320, Stop: 63694, Start Num: 50

Candidate Starts for Adnama_115:

(Start: 40 @63266 has 1 MA's), (Start: 50 @63320 has 101 MA's), (Start: 83 @63401 has 3 MA's), (84, 63410), (90, 63449), (94, 63470), (122, 63563), (126, 63581), (127, 63584), (140, 63632), (160, 63683),

Gene: Adolin_26 Start: 20726, Stop: 21094, Start Num: 34

Candidate Starts for Adolin_26:

(Start: 34 @20726 has 24 MA's), (Start: 83 @20750 has 3 MA's), (121, 20936), (128, 20963), (135, 20993),

Gene: Adumb2043_27 Start: 22274, Stop: 22639, Start Num: 34

Candidate Starts for Adumb2043_27:

(15, 22109), (Start: 34 @22274 has 24 MA's), (Start: 83 @22298 has 3 MA's), (135, 22541),

Gene: AinMach_29 Start: 23247, Stop: 23618, Start Num: 73

Candidate Starts for AinMach_29:

(47, 23190), (Start: 73 @23247 has 19 MA's), (Start: 83 @23277 has 3 MA's), (98, 23370), (114, 23442), (120, 23460), (139, 23535), (148, 23562),

Gene: Amao_111 Start: 63594, Stop: 63968, Start Num: 50

Candidate Starts for Amao_111:

(Start: 50 @63594 has 101 MA's), (Start: 75 @63648 has 2 MA's), (Start: 83 @63675 has 3 MA's), (84, 63684), (90, 63723), (91, 63726), (94, 63744), (122, 63837), (126, 63855), (127, 63858), (140, 63906), (141, 63912), (144, 63924),

Gene: Amelia_53 Start: 32651, Stop: 33019, Start Num: 55

Candidate Starts for Amelia_53:

(Start: 49 @32642 has 1 MA's), (Start: 55 @32651 has 16 MA's), (Start: 83 @32693 has 3 MA's), (103, 32810), (104, 32819), (116, 32858), (133, 32930), (151, 32984),

Gene: AmericanBeauty_118 Start: 63362, Stop: 63736, Start Num: 50

Candidate Starts for AmericanBeauty_118:

(Start: 40 @63308 has 1 MA's), (Start: 50 @63362 has 101 MA's), (Start: 83 @63443 has 3 MA's), (84, 63452), (90, 63491), (94, 63512), (122, 63605), (126, 63623), (127, 63626), (140, 63674), (160, 63725),

Gene: Amore2_57 Start: 48420, Stop: 48055, Start Num: 67

Candidate Starts for Amore2_57:

(Start: 67 @48420 has 35 MA's), (Start: 83 @48378 has 3 MA's), (113, 48240), (122, 48213), (135, 48156),

Gene: Amyev_28 Start: 24196, Stop: 24564, Start Num: 34

Candidate Starts for Amyev_28:

(15, 24034), (Start: 34 @24196 has 24 MA's), (Start: 83 @24220 has 3 MA's), (120, 24403),

Gene: Anamika_51 Start: 48759, Stop: 48394, Start Num: 67

Candidate Starts for Anamika_51:

(Start: 67 @48759 has 35 MA's), (Start: 83 @48717 has 3 MA's), (99, 48612), (128, 48525), (136, 48492), (144, 48462),

Gene: Andrew_55 Start: 33040, Stop: 33402, Start Num: 56

Candidate Starts for Andrew_55:

(45, 33016), (Start: 56 @33040 has 4 MA's), (59, 33052), (Start: 83 @33079 has 3 MA's), (104, 33208), (116, 33247), (132, 33313), (133, 33319), (151, 33373),

Gene: ArV1_079 Start: 59307, Stop: 59669, Start Num: 78

Candidate Starts for ArV1_079:

(57, 59250), (66, 59286), (78, 59307), (Start: 86 @59352 has 1 MA's), (87, 59355), (90, 59376), (100, 59451), (107, 59481), (112, 59499), (125, 59538),

Gene: Argent26_115 Start: 63244, Stop: 63618, Start Num: 50

Candidate Starts for Argent26_115:

(Start: 40 @63190 has 1 MA's), (Start: 50 @63244 has 101 MA's), (Start: 83 @63325 has 3 MA's), (84, 63334), (90, 63373), (94, 63394), (122, 63487), (126, 63505), (127, 63508), (140, 63556), (160, 63607),

Gene: Ariel_162 Start: 83313, Stop: 83693, Start Num: 67

Candidate Starts for Ariel_162:

(Start: 67 @83313 has 35 MA's), (Start: 83 @83355 has 3 MA's), (96, 83430), (144, 83604), (149, 83610), (150, 83613), (171, 83682),

Gene: Asa16_29 Start: 24444, Stop: 24812, Start Num: 34

Candidate Starts for Asa16_29:

(15, 24279), (Start: 34 @24444 has 24 MA's), (Start: 83 @24468 has 3 MA's),

Gene: Ascela_28 Start: 22439, Stop: 22807, Start Num: 77

Candidate Starts for Ascela_28:

(Start: 77 @22439 has 30 MA's), (Start: 83 @22463 has 3 MA's), (121, 22649),

Gene: Asriel_109 Start: 61777, Stop: 62151, Start Num: 50

Candidate Starts for Asriel_109:

(Start: 50 @61777 has 101 MA's), (Start: 75 @61831 has 2 MA's), (Start: 83 @61858 has 3 MA's), (84, 61867), (90, 61906), (91, 61909), (94, 61927), (122, 62020), (126, 62038), (127, 62041), (140, 62089), (141, 62095), (144, 62107),

Gene: Austin_56 Start: 48418, Stop: 48053, Start Num: 67

Candidate Starts for Austin_56:

(Start: 67 @48418 has 35 MA's), (Start: 83 @48376 has 3 MA's), (113, 48238), (122, 48211), (135, 48154),

Gene: Ayotoya_66 Start: 43183, Stop: 43569, Start Num: 73

Candidate Starts for Ayotoya_66:

(39, 43066), (51, 43126), (Start: 67 @43171 has 35 MA's), (Start: 73 @43183 has 19 MA's), (Start: 83 @43213 has 3 MA's), (96, 43288), (127, 43390), (144, 43456),

Gene: Azrael100_87 Start: 53907, Stop: 54263, Start Num: 77

Candidate Starts for Azrael100_87:

(Start: 71 @53895 has 3 MA's), (72, 53898), (Start: 73 @53901 has 19 MA's), (Start: 77 @53907 has 30 MA's), (Start: 83 @53931 has 3 MA's), (90, 53973), (93, 53985), (103, 54048), (105, 54054), (120, 54093), (124, 54108), (125, 54117), (127, 54123), (136, 54159), (140, 54171), (144, 54189),

Gene: BFK20_ORF42 Start: 32596, Stop: 32249, Start Num: 70

Candidate Starts for BFK20_ORF42:

(70, 32596), (82, 32572), (Start: 83 @32560 has 3 MA's), (97, 32482), (135, 32314), (143, 32287), (144, 32281), (153, 32266),

Gene: BaboJay_111 Start: 64514, Stop: 64846, Start Num: 64

Candidate Starts for BaboJay_111:

(Start: 64 @64514 has 18 MA's), (Start: 81 @64544 has 1 MA's), (102, 64688), (121, 64736), (127, 64760), (149, 64832),

Gene: BadStone_108 Start: 63579, Stop: 63953, Start Num: 50

Candidate Starts for BadStone_108:

(Start: 40 @63525 has 1 MA's), (Start: 50 @63579 has 101 MA's), (Start: 75 @63633 has 2 MA's), (Start: 83 @63660 has 3 MA's), (84, 63669), (90, 63708), (94, 63729), (122, 63822), (126, 63840), (127, 63843), (140, 63891), (141, 63897), (144, 63909),

Gene: BaileyBlu_28 Start: 22070, Stop: 22423, Start Num: 75

Candidate Starts for BaileyBlu_28:

(63, 22052), (Start: 75 @22070 has 2 MA's), (Start: 83 @22094 has 3 MA's), (98, 22187), (125, 22301), (138, 22349),

Gene: Balomoji_111 Start: 63560, Stop: 63934, Start Num: 50

Candidate Starts for Balomoji_111:

(Start: 50 @63560 has 101 MA's), (Start: 75 @63614 has 2 MA's), (Start: 83 @63641 has 3 MA's), (84, 63650), (90, 63689), (91, 63692), (94, 63710), (122, 63803), (126, 63821), (127, 63824), (140, 63872), (141, 63878), (144, 63890),

Gene: Barbarian_110 Start: 61777, Stop: 62151, Start Num: 50

Candidate Starts for Barbarian_110:

(Start: 50 @61777 has 101 MA's), (Start: 75 @61831 has 2 MA's), (Start: 83 @61858 has 3 MA's), (84, 61867), (90, 61906), (91, 61909), (94, 61927), (122, 62020), (126, 62038), (127, 62041), (140, 62089), (141, 62095), (144, 62107),

Gene: Barbochs_54 Start: 47707, Stop: 47345, Start Num: 69

Candidate Starts for Barbochs_54:

(Start: 69 @47707 has 24 MA's), (Start: 73 @47698 has 19 MA's), (Start: 83 @47668 has 3 MA's), (96, 47593), (122, 47503), (128, 47476), (136, 47443), (144, 47413), (161, 47377),

Gene: Barnstormer_27 Start: 22061, Stop: 22453, Start Num: 54

Candidate Starts for Barnstormer_27:

(Start: 54 @22061 has 2 MA's), (Start: 83 @22127 has 3 MA's), (97, 22205),

Gene: Basilisk_51 Start: 33012, Stop: 33398, Start Num: 55

Candidate Starts for Basilisk_51:

(Start: 49 @33003 has 1 MA's), (Start: 55 @33012 has 16 MA's), (61, 33030), (Start: 83 @33051 has 3 MA's), (96, 33126), (104, 33183), (116, 33222), (129, 33270), (133, 33294), (151, 33348),

Gene: Bask21_111 Start: 62396, Stop: 62770, Start Num: 50

Candidate Starts for Bask21_111:

(Start: 50 @62396 has 101 MA's), (Start: 75 @62450 has 2 MA's), (Start: 83 @62477 has 3 MA's), (84, 62486), (90, 62525), (94, 62546), (122, 62639), (126, 62657), (127, 62660), (140, 62708), (141, 62714), (144, 62726),

Gene: Beaver_57 Start: 49477, Stop: 49115, Start Num: 69

Candidate Starts for Beaver_57:

(Start: 69 @49477 has 24 MA's), (Start: 73 @49468 has 19 MA's), (Start: 83 @49438 has 3 MA's), (96, 49363), (122, 49273), (128, 49246), (136, 49213), (144, 49183), (161, 49147),

Gene: Bench_113 Start: 64001, Stop: 64375, Start Num: 50

Candidate Starts for Bench_113:

(Start: 40 @63947 has 1 MA's), (Start: 50 @64001 has 101 MA's), (Start: 83 @64082 has 3 MA's), (84, 64091), (90, 64130), (94, 64151), (122, 64244), (126, 64262), (127, 64265), (140, 64313), (160, 64364),

Gene: Benczkowski14_48 Start: 48592, Stop: 48224, Start Num: 77

Candidate Starts for Benczkowski14_48:

(Start: 77 @48592 has 30 MA's), (Start: 83 @48568 has 3 MA's), (128, 48361), (149, 48292), (167, 48235),

Gene: BenoitCattle_55 Start: 48070, Stop: 47708, Start Num: 69

Candidate Starts for BenoitCattle_55:

(53, 48118), (Start: 69 @48070 has 24 MA's), (Start: 71 @48067 has 3 MA's), (Start: 83 @48031 has 3 MA's), (96, 47956), (122, 47866), (128, 47839), (136, 47806), (144, 47776), (149, 47770), (161, 47740),

Gene: Berrie_29 Start: 23499, Stop: 23867, Start Num: 77

Candidate Starts for Berrie_29:

(Start: 77 @23499 has 30 MA's), (Start: 83 @23523 has 3 MA's), (110, 23676),

Gene: Berries_51 Start: 48731, Stop: 48366, Start Num: 67

Candidate Starts for Berries_51:

(Start: 67 @48731 has 35 MA's), (Start: 83 @48689 has 3 MA's), (99, 48584), (128, 48497), (135, 48467), (136, 48464), (144, 48434),

Gene: BetterKatz_65 Start: 42412, Stop: 42768, Start Num: 83

Candidate Starts for BetterKatz_65:

(22, 42142), (27, 42190), (32, 42211), (39, 42265), (51, 42325), (Start: 67 @42370 has 35 MA's), (Start: 73 @42382 has 19 MA's), (Start: 83 @42412 has 3 MA's), (96, 42487), (127, 42589), (144, 42655),

Gene: Bianmat_51 Start: 48771, Stop: 48406, Start Num: 67

Candidate Starts for Bianmat_51:

(Start: 67 @48771 has 35 MA's), (Start: 83 @48729 has 3 MA's), (99, 48624), (128, 48537), (135, 48507), (136, 48504), (144, 48474),

Gene: BigBubba_113 Start: 62987, Stop: 63319, Start Num: 64

Candidate Starts for BigBubba_113:

(Start: 64 @62987 has 18 MA's), (Start: 81 @63017 has 1 MA's), (102, 63161), (121, 63209), (127, 63233), (149, 63305),

Gene: BigShaq_53 Start: 48075, Stop: 47713, Start Num: 69

Candidate Starts for BigShaq_53:

(53, 48123), (Start: 69 @48075 has 24 MA's), (Start: 71 @48072 has 3 MA's), (Start: 83 @48036 has 3 MA's), (96, 47961), (122, 47871), (128, 47844), (136, 47811), (144, 47781), (149, 47775), (161, 47745),

Gene: BilboSwaggins_110 Start: 64057, Stop: 64431, Start Num: 50

Candidate Starts for BilboSwaggins_110:

(Start: 40 @64003 has 1 MA's), (Start: 50 @64057 has 101 MA's), (Start: 83 @64138 has 3 MA's), (84, 64147), (90, 64186), (94, 64207), (122, 64300), (126, 64318), (127, 64321), (140, 64369), (141, 64375), (144, 64387),

Gene: BirksAndSocks_59 Start: 49827, Stop: 49465, Start Num: 69

Candidate Starts for BirksAndSocks_59:

(Start: 69 @49827 has 24 MA's), (Start: 73 @49818 has 19 MA's), (Start: 83 @49788 has 3 MA's), (96, 49713), (122, 49623), (128, 49596), (136, 49563), (144, 49533), (161, 49497),

Gene: Bobby_156 Start: 89177, Stop: 89539, Start Num: 76

Candidate Starts for Bobby_156:

(Start: 76 @89177 has 7 MA's), (Start: 83 @89201 has 3 MA's), (93, 89255), (96, 89276), (121, 89357), (143, 89444), (144, 89450), (158, 89477), (171, 89528),

Gene: Bock_67 Start: 42626, Stop: 43012, Start Num: 73

Candidate Starts for Bock_67:

(18, 42311), (22, 42386), (27, 42434), (32, 42455), (39, 42509), (51, 42569), (Start: 67 @42614 has 35 MA's), (Start: 73 @42626 has 19 MA's), (Start: 83 @42656 has 3 MA's), (96, 42731), (127, 42833), (144, 42899),

Gene: Boneham_58 Start: 49728, Stop: 49366, Start Num: 69

Candidate Starts for Boneham_58:

(Start: 69 @49728 has 24 MA's), (Start: 73 @49719 has 19 MA's), (Start: 83 @49689 has 3 MA's), (96, 49614), (122, 49524), (128, 49497), (136, 49464), (144, 49434), (161, 49398),

Gene: Breezic_54 Start: 47720, Stop: 47358, Start Num: 69

Candidate Starts for Breezic_54:

(Start: 69 @47720 has 24 MA's), (Start: 73 @47711 has 19 MA's), (Start: 83 @47681 has 3 MA's), (96, 47606), (122, 47516), (128, 47489), (136, 47456), (144, 47426), (161, 47390),

Gene: Bruin_108 Start: 62685, Stop: 63059, Start Num: 50

Candidate Starts for Bruin_108:

(Start: 40 @62631 has 1 MA's), (Start: 50 @62685 has 101 MA's), (Start: 83 @62766 has 3 MA's), (84, 62775), (90, 62814), (94, 62835), (122, 62928), (126, 62946), (127, 62949), (140, 62997), (160, 63048),

Gene: Brujita_56 Start: 37993, Stop: 38289, Start Num: 73

Candidate Starts for Brujita_56:

(62, 37969), (Start: 73 @37993 has 19 MA's), (Start: 83 @38017 has 3 MA's), (88, 38047), (93, 38071), (115, 38149), (117, 38161), (121, 38170), (126, 38191), (145, 38260),

Gene: Brylie_65 Start: 42235, Stop: 42591, Start Num: 83

Candidate Starts for Brylie_65:

(22, 41965), (27, 42013), (32, 42034), (39, 42088), (51, 42148), (Start: 67 @42193 has 35 MA's), (Start: 73 @42205 has 19 MA's), (Start: 83 @42235 has 3 MA's), (96, 42310), (127, 42412), (144, 42478),

Gene: Buck_112 Start: 64501, Stop: 64875, Start Num: 50

Candidate Starts for Buck_112:

(Start: 40 @64447 has 1 MA's), (Start: 50 @64501 has 101 MA's), (Start: 75 @64555 has 2 MA's), (Start: 83 @64582 has 3 MA's), (84, 64591), (90, 64630), (94, 64651), (122, 64744), (126, 64762), (127, 64765), (140, 64813), (160, 64864),

Gene: BugsBunny_110 Start: 63999, Stop: 64373, Start Num: 50

Candidate Starts for BugsBunny_110:

(Start: 40 @63945 has 1 MA's), (Start: 50 @63999 has 101 MA's), (Start: 83 @64080 has 3 MA's), (84, 64089), (90, 64128), (94, 64149), (122, 64242), (126, 64260), (127, 64263), (140, 64311), (160,

64362),

Gene: Butterball_57 Start: 49733, Stop: 49371, Start Num: 69

Candidate Starts for Butterball_57:

(Start: 69 @49733 has 24 MA's), (Start: 73 @49724 has 19 MA's), (Start: 83 @49694 has 3 MA's), (96, 49619), (122, 49529), (128, 49502), (136, 49469), (144, 49439), (161, 49403),

Gene: Cactus_115 Start: 62939, Stop: 63313, Start Num: 50

Candidate Starts for Cactus_115:

(Start: 40 @62885 has 1 MA's), (Start: 50 @62939 has 101 MA's), (Start: 75 @62993 has 2 MA's), (Start: 83 @63020 has 3 MA's), (84, 63029), (90, 63068), (94, 63089), (122, 63182), (126, 63200), (127, 63203), (140, 63251), (141, 63257), (144, 63269),

Gene: CallinAllBarbz_26 Start: 21897, Stop: 22250, Start Num: 76

Candidate Starts for CallinAllBarbz_26:

(60, 21858), (Start: 76 @21897 has 7 MA's), (Start: 83 @21921 has 3 MA's), (98, 22014), (114, 22086), (125, 22128), (138, 22176),

Gene: Caron_28 Start: 22040, Stop: 22432, Start Num: 52

Candidate Starts for Caron_28:

(6, 21614), (Start: 52 @22040 has 4 MA's), (Start: 83 @22109 has 3 MA's), (88, 22139), (121, 22286),

Gene: Cassia_28 Start: 22891, Stop: 23259, Start Num: 77

Candidate Starts for Cassia_28:

(7, 22426), (17, 22588), (Start: 77 @22891 has 30 MA's), (Start: 83 @22915 has 3 MA's), (110, 23068),

Gene: CathyBurgh_53 Start: 48297, Stop: 47935, Start Num: 69

Candidate Starts for CathyBurgh_53:

(Start: 69 @48297 has 24 MA's), (Start: 73 @48288 has 19 MA's), (Start: 83 @48258 has 3 MA's), (96, 48183), (122, 48093), (128, 48066), (136, 48033), (144, 48003), (161, 47967),

Gene: Charianelly_51 Start: 48481, Stop: 48116, Start Num: 67

Candidate Starts for Charianelly_51:

(Start: 67 @48481 has 35 MA's), (Start: 83 @48439 has 3 MA's), (99, 48334), (128, 48247), (135, 48217), (136, 48214), (144, 48184),

Gene: Chelms_53 Start: 48063, Stop: 47701, Start Num: 69

Candidate Starts for Chelms_53:

(53, 48111), (Start: 69 @48063 has 24 MA's), (Start: 71 @48060 has 3 MA's), (Start: 83 @48024 has 3 MA's), (96, 47949), (122, 47859), (128, 47832), (136, 47799), (144, 47769), (149, 47763), (161, 47733),

Gene: Chickaboom_56 Start: 33345, Stop: 33731, Start Num: 55

Candidate Starts for Chickaboom_56:

(Start: 55 @33345 has 16 MA's), (Start: 83 @33384 has 3 MA's), (96, 33459), (104, 33516), (108, 33528), (116, 33555), (129, 33603), (133, 33627), (151, 33681),

Gene: Chipper1996_930 Start: 60998, Stop: 61360, Start Num: 74

Candidate Starts for Chipper1996_930:

(Start: 74 @60998 has 15 MA's), (Start: 86 @61043 has 1 MA's), (87, 61046), (90, 61067), (100, 61142), (107, 61172), (112, 61190), (127, 61235), (143, 61295), (144, 61301),

Gene: Chocolat_92 Start: 60705, Stop: 61067, Start Num: 74

Candidate Starts for Chocolat_92:

(Start: 74 @60705 has 15 MA's), (Start: 86 @60750 has 1 MA's), (87, 60753), (90, 60774), (100, 60849), (107, 60879), (112, 60897), (127, 60942), (143, 61002), (144, 61008),

Gene: Chop_67 Start: 43371, Stop: 43757, Start Num: 73

Candidate Starts for Chop_67:

(22, 43131), (27, 43179), (32, 43200), (39, 43254), (51, 43314), (Start: 67 @43359 has 35 MA's), (Start: 73 @43371 has 19 MA's), (Start: 83 @43401 has 3 MA's), (96, 43476), (127, 43578), (144, 43644),

Gene: ChosenOne_111 Start: 62885, Stop: 63259, Start Num: 50

Candidate Starts for ChosenOne_111:

(Start: 40 @62831 has 1 MA's), (Start: 50 @62885 has 101 MA's), (Start: 75 @62939 has 2 MA's), (Start: 83 @62966 has 3 MA's), (84, 62975), (90, 63014), (94, 63035), (122, 63128), (126, 63146), (127, 63149), (140, 63197), (160, 63248),

Gene: ChotaBhai_111 Start: 63338, Stop: 63712, Start Num: 50

Candidate Starts for ChotaBhai_111:

(Start: 50 @63338 has 101 MA's), (Start: 75 @63392 has 2 MA's), (Start: 83 @63419 has 3 MA's), (84, 63428), (90, 63467), (91, 63470), (94, 63488), (122, 63581), (126, 63599), (127, 63602), (140, 63650), (141, 63656), (144, 63668),

Gene: Chubster_92 Start: 60945, Stop: 61307, Start Num: 75

Candidate Starts for Chubster_92:

(Start: 75 @60945 has 2 MA's), (Start: 86 @60990 has 1 MA's), (87, 60993), (90, 61014), (100, 61089), (107, 61119), (112, 61137), (127, 61182), (143, 61242), (144, 61248),

Gene: Cjw1_111 Start: 64694, Stop: 65068, Start Num: 50

Candidate Starts for Cjw1_111:

(Start: 40 @64640 has 1 MA's), (Start: 50 @64694 has 101 MA's), (Start: 83 @64775 has 3 MA's), (84, 64784), (90, 64823), (94, 64844), (122, 64937), (126, 64955), (127, 64958), (140, 65006), (160, 65057),

Gene: Colucci_95 Start: 61317, Stop: 61679, Start Num: 79

Candidate Starts for Colucci_95:

(Start: 79 @61317 has 1 MA's), (Start: 86 @61362 has 1 MA's), (87, 61365), (90, 61386), (100, 61461), (107, 61491), (112, 61509), (125, 61548),

Gene: Command613_113 Start: 63553, Stop: 63927, Start Num: 50

Candidate Starts for Command613_113:

(Start: 50 @63553 has 101 MA's), (Start: 75 @63607 has 2 MA's), (Start: 83 @63634 has 3 MA's), (84, 63643), (90, 63682), (94, 63703), (122, 63796), (126, 63814), (127, 63817), (140, 63865), (141, 63871), (144, 63883),

Gene: Community_29 Start: 24629, Stop: 24997, Start Num: 77

Candidate Starts for Community_29:

(Start: 77 @24629 has 30 MA's), (Start: 83 @24653 has 3 MA's), (110, 24806), (154, 24947),

Gene: Conboy_90 Start: 60454, Stop: 60816, Start Num: 74

Candidate Starts for Conboy_90:

(Start: 74 @60454 has 15 MA's), (Start: 86 @60499 has 1 MA's), (87, 60502), (90, 60523), (100, 60598), (107, 60628), (112, 60646), (127, 60691), (143, 60751), (144, 60757),

Gene: Contagion_108 Start: 63047, Stop: 63421, Start Num: 50

Candidate Starts for Contagion_108:

(Start: 40 @62993 has 1 MA's), (Start: 50 @63047 has 101 MA's), (Start: 83 @63128 has 3 MA's), (84, 63137), (90, 63176), (94, 63197), (122, 63290), (126, 63308), (127, 63311), (140, 63359), (160, 63410),

Gene: Cookies_108 Start: 63324, Stop: 63698, Start Num: 50

Candidate Starts for Cookies_108:

(Start: 50 @63324 has 101 MA's), (Start: 75 @63378 has 2 MA's), (Start: 83 @63405 has 3 MA's), (84, 63414), (90, 63453), (94, 63474), (122, 63567), (126, 63585), (127, 63588), (140, 63636), (141, 63642), (144, 63654),

Gene: Coral_53 Start: 32516, Stop: 32923, Start Num: 55

Candidate Starts for Coral_53:

(Start: 49 @32507 has 1 MA's), (Start: 55 @32516 has 16 MA's), (Start: 69 @32558 has 24 MA's), (Start: 83 @32597 has 3 MA's), (103, 32714), (104, 32723), (116, 32762), (133, 32834), (151, 32888),

Gene: Cosmo_88 Start: 53908, Stop: 54264, Start Num: 77

Candidate Starts for Cosmo_88:

(Start: 71 @53896 has 3 MA's), (72, 53899), (Start: 73 @53902 has 19 MA's), (Start: 77 @53908 has 30 MA's), (Start: 83 @53932 has 3 MA's), (90, 53974), (93, 53986), (103, 54049), (105, 54055), (120, 54094), (124, 54109), (125, 54118), (127, 54124), (136, 54160), (140, 54172), (144, 54190),

Gene: Cote_55 Start: 32989, Stop: 33357, Start Num: 55

Candidate Starts for Cote_55:

(Start: 49 @32980 has 1 MA's), (Start: 55 @32989 has 16 MA's), (Start: 83 @33031 has 3 MA's), (103, 33148), (104, 33157), (116, 33196), (133, 33268), (151, 33322),

Gene: Courthouse_159 Start: 83757, Stop: 84137, Start Num: 67

Candidate Starts for Courthouse_159:

(Start: 67 @83757 has 35 MA's), (Start: 83 @83799 has 3 MA's), (96, 83874), (144, 84048), (149, 84054), (150, 84057), (171, 84126),

Gene: Crewmate_31 Start: 23149, Stop: 23517, Start Num: 77

Candidate Starts for Crewmate_31:

(10, 22744), (Start: 77 @23149 has 30 MA's), (Start: 83 @23173 has 3 MA's), (120, 23356), (121, 23359),

Gene: CrystalP_111 Start: 64057, Stop: 64431, Start Num: 50

Candidate Starts for CrystalP_111:

(Start: 40 @64003 has 1 MA's), (Start: 50 @64057 has 101 MA's), (Start: 83 @64138 has 3 MA's), (84, 64147), (90, 64186), (94, 64207), (122, 64300), (126, 64318), (127, 64321), (140, 64369), (141, 64375), (144, 64387),

Gene: Cyan_27 Start: 22364, Stop: 22729, Start Num: 34

Candidate Starts for Cyan_27:

(Start: 34 @22364 has 24 MA's), (Start: 83 @22388 has 3 MA's), (120, 22571),

Gene: Czyszczone1_111 Start: 63040, Stop: 63414, Start Num: 50

Candidate Starts for Czyszczone1_111:

(Start: 40 @62986 has 1 MA's), (Start: 50 @63040 has 101 MA's), (Start: 83 @63121 has 3 MA's), (84, 63130), (90, 63169), (94, 63190), (122, 63283), (126, 63301), (127, 63304), (140, 63352), (160,

63403),

Gene: DS6A_81 Start: 51791, Stop: 52174, Start Num: 46

Candidate Starts for DS6A_81:

(33, 51698), (37, 51737), (44, 51776), (Start: 46 @51791 has 1 MA's), (Start: 83 @51890 has 3 MA's), (89, 51926), (95, 51959), (121, 52043), (122, 52046), (125, 52061), (126, 52064), (140, 52115), (150, 52142),

Gene: Daikon_112 Start: 62856, Stop: 63230, Start Num: 50

Candidate Starts for Daikon_112:

(Start: 40 @62802 has 1 MA's), (Start: 50 @62856 has 101 MA's), (Start: 75 @62910 has 2 MA's), (Start: 83 @62937 has 3 MA's), (84, 62946), (90, 62985), (94, 63006), (122, 63099), (126, 63117), (127, 63120), (140, 63168), (141, 63174), (144, 63186),

Gene: Dakiti_54 Start: 48931, Stop: 48569, Start Num: 69

Candidate Starts for Dakiti_54:

(53, 48979), (Start: 69 @48931 has 24 MA's), (Start: 71 @48928 has 3 MA's), (Start: 83 @48892 has 3 MA's), (96, 48817), (122, 48727), (128, 48700), (136, 48667), (144, 48637), (149, 48631), (161, 48601),

Gene: Damp_49 Start: 47645, Stop: 47280, Start Num: 67

Candidate Starts for Damp_49:

(Start: 67 @47645 has 35 MA's), (Start: 83 @47603 has 3 MA's), (99, 47498), (128, 47411), (135, 47381), (136, 47378), (144, 47348),

Gene: Daob_55 Start: 32991, Stop: 33368, Start Num: 49

Candidate Starts for Daob_55:

(Start: 49 @32991 has 1 MA's), (Start: 55 @33000 has 16 MA's), (Start: 83 @33042 has 3 MA's), (103, 33159), (104, 33168), (116, 33207), (133, 33279), (151, 33333),

Gene: DelRio_66 Start: 43392, Stop: 43778, Start Num: 73

Candidate Starts for DelRio_66:

(27, 43200), (32, 43221), (39, 43275), (51, 43335), (Start: 67 @43380 has 35 MA's), (Start: 73 @43392 has 19 MA's), (Start: 83 @43422 has 3 MA's), (96, 43497), (127, 43599), (135, 43632), (144, 43665), (156, 43689),

Gene: Demosthenes_47 Start: 48399, Stop: 47929, Start Num: 41

Candidate Starts for Demosthenes_47:

(1, 48882), (2, 48858), (3, 48855), (9, 48768), (11, 48759), (12, 48702), (13, 48687), (14, 48657), (20, 48576), (21, 48564), (28, 48495), (Start: 29 @48489 has 1 MA's), (Start: 41 @48399 has 1 MA's), (48, 48369), (Start: 67 @48315 has 35 MA's), (Start: 77 @48297 has 30 MA's), (Start: 83 @48273 has 3 MA's), (99, 48168), (128, 48066), (167, 47940),

Gene: Diabla_56 Start: 49398, Stop: 49039, Start Num: 71

Candidate Starts for Diabla_56:

(Start: 69 @49401 has 24 MA's), (Start: 71 @49398 has 3 MA's), (Start: 73 @49392 has 19 MA's), (Start: 83 @49362 has 3 MA's), (144, 49107), (161, 49071),

Gene: DocB7_043 Start: 40188, Stop: 39829, Start Num: 77

Candidate Starts for DocB7_043:

(Start: 77 @40188 has 30 MA's), (Start: 83 @40164 has 3 MA's), (90, 40122), (98, 40071), (122, 40014), (144, 39924), (146, 39921), (149, 39918), (172, 39843),

Gene: DoctorDiddles_110 Start: 62868, Stop: 63200, Start Num: 64
Candidate Starts for DoctorDiddles_110:
(Start: 50 @62826 has 101 MA's), (Start: 64 @62868 has 18 MA's), (Start: 81 @62898 has 1 MA's),
(102, 63042), (121, 63090), (127, 63114), (149, 63186),

Gene: DrDrey_111 Start: 64717, Stop: 65091, Start Num: 50
Candidate Starts for DrDrey_111:
(Start: 40 @64663 has 1 MA's), (Start: 50 @64717 has 101 MA's), (Start: 75 @64771 has 2 MA's),
(Start: 83 @64798 has 3 MA's), (84, 64807), (90, 64846), (94, 64867), (122, 64960), (126, 64978),
(127, 64981), (140, 65029), (141, 65035), (144, 65047),

Gene: DrManhattan_26 Start: 20716, Stop: 21084, Start Num: 34
Candidate Starts for DrManhattan_26:
(Start: 34 @20716 has 24 MA's), (Start: 83 @20740 has 3 MA's), (121, 20926), (128, 20953), (135,
20983),

Gene: DrSierra_27 Start: 21394, Stop: 21762, Start Num: 34
Candidate Starts for DrSierra_27:
(Start: 34 @21394 has 24 MA's), (Start: 83 @21418 has 3 MA's),

Gene: DrYang_88 Start: 60507, Stop: 60866, Start Num: 74
Candidate Starts for DrYang_88:
(Start: 74 @60507 has 15 MA's), (Start: 86 @60552 has 1 MA's), (87, 60555), (90, 60576), (100,
60651), (107, 60681), (112, 60699), (117, 60720), (127, 60744), (143, 60804),

Gene: Dumbo_111 Start: 63077, Stop: 63451, Start Num: 50
Candidate Starts for Dumbo_111:
(Start: 40 @63023 has 1 MA's), (Start: 50 @63077 has 101 MA's), (Start: 83 @63158 has 3 MA's),
(84, 63167), (90, 63206), (94, 63227), (122, 63320), (126, 63338), (127, 63341), (140, 63389), (160,
63440),

Gene: Dusk_108 Start: 63239, Stop: 63613, Start Num: 50
Candidate Starts for Dusk_108:
(Start: 40 @63185 has 1 MA's), (Start: 50 @63239 has 101 MA's), (Start: 75 @63293 has 2 MA's),
(Start: 83 @63320 has 3 MA's), (84, 63329), (90, 63368), (94, 63389), (122, 63482), (126, 63500),
(127, 63503), (140, 63551), (141, 63557), (144, 63569),

Gene: E6_49 Start: 32814, Stop: 33161, Start Num: 85
Candidate Starts for E6_49:
(Start: 85 @32814 has 1 MA's), (89, 32838), (91, 32847), (106, 32937), (125, 33006), (143, 33072),
(164, 33132), (169, 33153),

Gene: Easy2Say_111 Start: 63711, Stop: 64085, Start Num: 50
Candidate Starts for Easy2Say_111:
(Start: 40 @63657 has 1 MA's), (Start: 50 @63711 has 101 MA's), (Start: 75 @63765 has 2 MA's),
(Start: 83 @63792 has 3 MA's), (84, 63801), (90, 63840), (94, 63861), (122, 63954), (126, 63972),
(127, 63975), (140, 64023), (160, 64074),

Gene: EdgarPoe_91 Start: 60862, Stop: 61224, Start Num: 74
Candidate Starts for EdgarPoe_91:
(Start: 74 @60862 has 15 MA's), (Start: 86 @60907 has 1 MA's), (87, 60910), (90, 60931), (100,
61006), (107, 61036), (112, 61054), (127, 61099), (143, 61159), (144, 61165),

Gene: Eggsie_52 Start: 47363, Stop: 47001, Start Num: 69

Candidate Starts for Eggsie_52:

(Start: 69 @47363 has 24 MA's), (Start: 71 @47360 has 3 MA's), (Start: 73 @47354 has 19 MA's), (Start: 83 @47324 has 3 MA's), (93, 47270), (144, 47069), (161, 47033),

Gene: Ekhein_54 Start: 47416, Stop: 47060, Start Num: 73

Candidate Starts for Ekhein_54:

(Start: 69 @47425 has 24 MA's), (Start: 73 @47416 has 19 MA's), (Start: 83 @47386 has 3 MA's), (96, 47311), (122, 47221), (128, 47194), (136, 47161), (144, 47131), (161, 47095),

Gene: Elezi_29 Start: 24459, Stop: 24827, Start Num: 77

Candidate Starts for Elezi_29:

(8, 24144), (10, 24156), (Start: 77 @24459 has 30 MA's), (Start: 80 @24465 has 1 MA's), (Start: 83 @24483 has 3 MA's), (120, 24666),

Gene: Elite2014_110 Start: 62884, Stop: 63258, Start Num: 50

Candidate Starts for Elite2014_110:

(Start: 40 @62830 has 1 MA's), (Start: 50 @62884 has 101 MA's), (Start: 75 @62938 has 2 MA's), (Start: 83 @62965 has 3 MA's), (84, 62974), (90, 63013), (94, 63034), (122, 63127), (126, 63145), (127, 63148), (140, 63196), (160, 63247),

Gene: Elph10_110 Start: 62723, Stop: 63097, Start Num: 50

Candidate Starts for Elph10_110:

(Start: 40 @62669 has 1 MA's), (Start: 50 @62723 has 101 MA's), (Start: 83 @62804 has 3 MA's), (84, 62813), (90, 62852), (94, 62873), (122, 62966), (126, 62984), (127, 62987), (140, 63035), (160, 63086),

Gene: Emmina_111 Start: 62662, Stop: 63036, Start Num: 50

Candidate Starts for Emmina_111:

(Start: 40 @62608 has 1 MA's), (Start: 50 @62662 has 101 MA's), (Start: 75 @62716 has 2 MA's), (Start: 83 @62743 has 3 MA's), (84, 62752), (90, 62791), (94, 62812), (122, 62905), (126, 62923), (127, 62926), (140, 62974), (160, 63025),

Gene: Emotion_33 Start: 24307, Stop: 24687, Start Num: 76

Candidate Starts for Emotion_33:

(Start: 76 @24307 has 7 MA's), (Start: 83 @24331 has 3 MA's), (98, 24424), (140, 24592),

Gene: EniyanLRS_84 Start: 53647, Stop: 54018, Start Num: 77

Candidate Starts for EniyanLRS_84:

(Start: 71 @53635 has 3 MA's), (72, 53638), (Start: 73 @53641 has 19 MA's), (Start: 77 @53647 has 30 MA's), (Start: 83 @53671 has 3 MA's), (90, 53713), (93, 53725), (103, 53788), (105, 53794), (120, 53833), (124, 53848), (125, 53857), (127, 53863), (136, 53899), (140, 53911), (143, 53923), (144, 53929), (166, 53986), (170, 54004),

Gene: Eraser_29 Start: 24451, Stop: 24819, Start Num: 34

Candidate Starts for Eraser_29:

(15, 24286), (Start: 34 @24451 has 24 MA's), (Start: 83 @24475 has 3 MA's),

Gene: Eureka_111 Start: 63850, Stop: 64224, Start Num: 50

Candidate Starts for Eureka_111:

(Start: 40 @63796 has 1 MA's), (Start: 50 @63850 has 101 MA's), (Start: 75 @63904 has 2 MA's), (Start: 83 @63931 has 3 MA's), (84, 63940), (90, 63979), (94, 64000), (122, 64093), (126, 64111), (127, 64114), (140, 64162), (141, 64168), (160, 64213),

Gene: Exiguo_53 Start: 47428, Stop: 47075, Start Num: 73

Candidate Starts for Exiguo_53:

(Start: 69 @47437 has 24 MA's), (Start: 73 @47428 has 19 MA's), (Start: 83 @47398 has 3 MA's), (96, 47323), (122, 47233), (128, 47206), (136, 47173), (144, 47143), (161, 47107),

Gene: FelixAlejandro_58 Start: 49931, Stop: 49569, Start Num: 69

Candidate Starts for FelixAlejandro_58:

(Start: 69 @49931 has 24 MA's), (Start: 73 @49922 has 19 MA's), (Start: 83 @49892 has 3 MA's), (96, 49817), (122, 49727), (126, 49706), (128, 49700), (136, 49667), (144, 49637), (161, 49601),

Gene: Filch_114 Start: 63550, Stop: 63882, Start Num: 64

Candidate Starts for Filch_114:

(Start: 64 @63550 has 18 MA's), (Start: 81 @63580 has 1 MA's), (102, 63724), (121, 63772), (127, 63796), (149, 63868),

Gene: FireRed_114 Start: 64126, Stop: 64500, Start Num: 50

Candidate Starts for FireRed_114:

(Start: 40 @64072 has 1 MA's), (Start: 50 @64126 has 101 MA's), (Start: 75 @64180 has 2 MA's), (Start: 83 @64207 has 3 MA's), (84, 64216), (90, 64255), (94, 64276), (122, 64369), (126, 64387), (127, 64390), (140, 64438), (160, 64489),

Gene: Flakey_53 Start: 48292, Stop: 47939, Start Num: 73

Candidate Starts for Flakey_53:

(Start: 69 @48301 has 24 MA's), (Start: 73 @48292 has 19 MA's), (Start: 83 @48262 has 3 MA's), (96, 48187), (122, 48097), (128, 48070), (136, 48037), (144, 48007), (161, 47971),

Gene: Floof_30 Start: 23138, Stop: 23557, Start Num: 52

Candidate Starts for Floof_30:

(Start: 52 @23138 has 4 MA's), (82, 23213), (Start: 83 @23225 has 3 MA's), (117, 23393), (140, 23477), (148, 23501),

Gene: Flypotenuse_107 Start: 62431, Stop: 62805, Start Num: 50

Candidate Starts for Flypotenuse_107:

(Start: 50 @62431 has 101 MA's), (Start: 75 @62485 has 2 MA's), (Start: 83 @62512 has 3 MA's), (84, 62521), (90, 62560), (91, 62563), (94, 62581), (122, 62674), (126, 62692), (127, 62695), (140, 62743), (141, 62749), (144, 62761),

Gene: Francois_65 Start: 42391, Stop: 42777, Start Num: 73

Candidate Starts for Francois_65:

(39, 42274), (43, 42304), (51, 42334), (Start: 73 @42391 has 19 MA's), (Start: 83 @42421 has 3 MA's), (95, 42490), (127, 42598), (144, 42664), (168, 42736), (175, 42766),

Gene: GMA7_46 Start: 42634, Stop: 42269, Start Num: 67

Candidate Starts for GMA7_46:

(Start: 67 @42634 has 35 MA's), (Start: 83 @42592 has 3 MA's), (113, 42454), (122, 42427), (135, 42370),

Gene: GTE7_45 Start: 42665, Stop: 42300, Start Num: 67

Candidate Starts for GTE7_45:

(Start: 67 @42665 has 35 MA's), (Start: 83 @42623 has 3 MA's), (113, 42485), (122, 42458), (135, 42401),

Gene: Gage_113 Start: 63382, Stop: 63756, Start Num: 50

Candidate Starts for Gage_113:

(Start: 40 @63328 has 1 MA's), (Start: 50 @63382 has 101 MA's), (Start: 83 @63463 has 3 MA's), (84, 63472), (90, 63511), (94, 63532), (122, 63625), (126, 63643), (127, 63646), (140, 63694), (160, 63745),

Gene: Gaia_125 Start: 69310, Stop: 69603, Start Num: 77

Candidate Starts for Gaia_125:

(Start: 77 @69310 has 30 MA's), (Start: 80 @69316 has 1 MA's), (Start: 83 @69334 has 3 MA's), (96, 69409), (115, 69481), (119, 69490), (138, 69556), (143, 69574), (144, 69580), (149, 69586),

Gene: GalacticEye_51 Start: 48442, Stop: 48077, Start Num: 67

Candidate Starts for GalacticEye_51:

(Start: 67 @48442 has 35 MA's), (Start: 83 @48400 has 3 MA's), (99, 48295), (128, 48208), (135, 48178), (136, 48175), (144, 48145),

Gene: Galaxy_50 Start: 32207, Stop: 32593, Start Num: 55

Candidate Starts for Galaxy_50:

(26, 32063), (Start: 49 @32198 has 1 MA's), (Start: 55 @32207 has 16 MA's), (61, 32225), (Start: 83 @32246 has 3 MA's), (103, 32369), (104, 32378), (116, 32417), (130, 32468), (151, 32543),

Gene: GardenState_30 Start: 22984, Stop: 23337, Start Num: 68

Candidate Starts for GardenState_30:

(36, 22870), (Start: 68 @22984 has 2 MA's), (Start: 83 @23017 has 3 MA's), (117, 23182), (131, 23230), (138, 23257),

Gene: Gator_109 Start: 63291, Stop: 63665, Start Num: 50

Candidate Starts for Gator_109:

(Start: 50 @63291 has 101 MA's), (Start: 75 @63345 has 2 MA's), (Start: 83 @63372 has 3 MA's), (84, 63381), (90, 63420), (94, 63441), (122, 63534), (126, 63552), (127, 63555), (140, 63603), (141, 63609), (144, 63621),

Gene: Gemini_116 Start: 63761, Stop: 64135, Start Num: 50

Candidate Starts for Gemini_116:

(Start: 40 @63707 has 1 MA's), (Start: 50 @63761 has 101 MA's), (Start: 83 @63842 has 3 MA's), (84, 63851), (90, 63890), (94, 63911), (122, 64004), (126, 64022), (127, 64025), (140, 64073), (160, 64124),

Gene: Glexan_110 Start: 63441, Stop: 63815, Start Num: 50

Candidate Starts for Glexan_110:

(Start: 40 @63387 has 1 MA's), (Start: 50 @63441 has 101 MA's), (Start: 75 @63495 has 2 MA's), (Start: 83 @63522 has 3 MA's), (84, 63531), (90, 63570), (94, 63591), (122, 63684), (126, 63702), (127, 63705), (140, 63753), (141, 63759), (144, 63771),

Gene: Goku_111 Start: 64093, Stop: 64425, Start Num: 64

Candidate Starts for Goku_111:

(Start: 64 @64093 has 18 MA's), (Start: 81 @64123 has 1 MA's), (102, 64267), (121, 64315), (127, 64339), (149, 64411),

Gene: GoldenSpark_115 Start: 63244, Stop: 63618, Start Num: 50

Candidate Starts for GoldenSpark_115:

(Start: 40 @63190 has 1 MA's), (Start: 50 @63244 has 101 MA's), (Start: 83 @63325 has 3 MA's), (84, 63334), (90, 63373), (94, 63394), (122, 63487), (126, 63505), (127, 63508), (140, 63556), (160,

63607),

Gene: Goldilocks_115 Start: 63774, Stop: 64106, Start Num: 64

Candidate Starts for Goldilocks_115:

(Start: 64 @63774 has 18 MA's), (Start: 81 @63804 has 1 MA's), (102, 63948), (121, 63996), (127, 64020), (149, 64092),

Gene: Gonephishing_156 Start: 85217, Stop: 85597, Start Num: 67

Candidate Starts for Gonephishing_156:

(Start: 67 @85217 has 35 MA's), (Start: 83 @85259 has 3 MA's), (96, 85334), (121, 85415), (144, 85508), (149, 85514), (150, 85517), (171, 85586),

Gene: GooberAzure_114 Start: 63244, Stop: 63618, Start Num: 50

Candidate Starts for GooberAzure_114:

(Start: 40 @63190 has 1 MA's), (Start: 50 @63244 has 101 MA's), (Start: 83 @63325 has 3 MA's), (84, 63334), (90, 63373), (94, 63394), (122, 63487), (126, 63505), (127, 63508), (140, 63556), (160, 63607),

Gene: Gorko_53 Start: 47420, Stop: 47067, Start Num: 73

Candidate Starts for Gorko_53:

(Start: 69 @47429 has 24 MA's), (Start: 73 @47420 has 19 MA's), (Start: 83 @47390 has 3 MA's), (96, 47315), (122, 47225), (128, 47198), (136, 47165), (144, 47135), (161, 47099),

Gene: GourdThymes_54 Start: 48303, Stop: 47941, Start Num: 69

Candidate Starts for GourdThymes_54:

(Start: 69 @48303 has 24 MA's), (Start: 73 @48294 has 19 MA's), (Start: 83 @48264 has 3 MA's), (96, 48189), (122, 48099), (128, 48072), (136, 48039), (144, 48009), (161, 47973),

Gene: GrandSlam_67 Start: 43371, Stop: 43757, Start Num: 73

Candidate Starts for GrandSlam_67:

(22, 43131), (27, 43179), (32, 43200), (39, 43254), (51, 43314), (Start: 67 @43359 has 35 MA's), (Start: 73 @43371 has 19 MA's), (Start: 83 @43401 has 3 MA's), (96, 43476), (127, 43578), (144, 43644),

Gene: Gretchen_30 Start: 24301, Stop: 24720, Start Num: 52

Candidate Starts for Gretchen_30:

(Start: 52 @24301 has 4 MA's), (65, 24343), (Start: 83 @24388 has 3 MA's), (101, 24499), (109, 24529), (117, 24556), (121, 24565), (140, 24640),

Gene: Gudmit_64 Start: 38580, Stop: 38909, Start Num: 73

Candidate Starts for Gudmit_64:

(5, 38091), (13, 38199), (19, 38298), (Start: 73 @38580 has 19 MA's), (Start: 83 @38610 has 3 MA's), (93, 38664), (96, 38685), (97, 38688), (115, 38742), (126, 38784), (127, 38787),

Gene: Guillaume_51 Start: 48492, Stop: 48127, Start Num: 67

Candidate Starts for Guillaume_51:

(Start: 67 @48492 has 35 MA's), (Start: 83 @48450 has 3 MA's), (99, 48345), (128, 48258), (135, 48228), (136, 48225), (144, 48195),

Gene: Hail2Pitt_50 Start: 48968, Stop: 48603, Start Num: 67

Candidate Starts for Hail2Pitt_50:

(Start: 67 @48968 has 35 MA's), (Start: 83 @48926 has 3 MA's), (99, 48821), (128, 48734), (136, 48701), (144, 48671),

Gene: Hamood_67 Start: 43371, Stop: 43757, Start Num: 73

Candidate Starts for Hamood_67:

(22, 43131), (27, 43179), (32, 43200), (39, 43254), (51, 43314), (Start: 67 @43359 has 35 MA's), (Start: 73 @43371 has 19 MA's), (Start: 83 @43401 has 3 MA's), (96, 43476), (127, 43578), (144, 43644),

Gene: HanKaySha_111 Start: 63432, Stop: 63806, Start Num: 50

Candidate Starts for HanKaySha_111:

(Start: 40 @63378 has 1 MA's), (Start: 50 @63432 has 101 MA's), (Start: 75 @63486 has 2 MA's), (Start: 83 @63513 has 3 MA's), (84, 63522), (90, 63561), (94, 63582), (122, 63675), (126, 63693), (127, 63696), (140, 63744), (160, 63795),

Gene: HannahPhantana_61 Start: 32688, Stop: 33014, Start Num: 83

Candidate Starts for HannahPhantana_61:

(Start: 49 @32637 has 1 MA's), (Start: 55 @32646 has 16 MA's), (Start: 83 @32688 has 3 MA's), (103, 32805), (104, 32814), (116, 32853), (133, 32925), (151, 32979),

Gene: Harambe_51 Start: 48759, Stop: 48394, Start Num: 67

Candidate Starts for Harambe_51:

(Start: 67 @48759 has 35 MA's), (Start: 83 @48717 has 3 MA's), (99, 48612), (128, 48525), (135, 48495), (136, 48492), (144, 48462),

Gene: Harella_112 Start: 63957, Stop: 64331, Start Num: 50

Candidate Starts for Harella_112:

(Start: 40 @63903 has 1 MA's), (Start: 50 @63957 has 101 MA's), (Start: 75 @64011 has 2 MA's), (Start: 83 @64038 has 3 MA's), (84, 64047), (90, 64086), (94, 64107), (122, 64200), (126, 64218), (127, 64221), (140, 64269), (141, 64275), (144, 64287),

Gene: HayZem_56 Start: 48417, Stop: 48052, Start Num: 67

Candidate Starts for HayZem_56:

(Start: 67 @48417 has 35 MA's), (Start: 83 @48375 has 3 MA's), (113, 48237), (122, 48210), (135, 48153),

Gene: Hello_51 Start: 48721, Stop: 48356, Start Num: 67

Candidate Starts for Hello_51:

(Start: 67 @48721 has 35 MA's), (Start: 83 @48679 has 3 MA's), (99, 48574), (128, 48487), (135, 48457), (136, 48454), (144, 48424),

Gene: Henry_109 Start: 63242, Stop: 63616, Start Num: 50

Candidate Starts for Henry_109:

(Start: 50 @63242 has 101 MA's), (Start: 75 @63296 has 2 MA's), (Start: 83 @63323 has 3 MA's), (84, 63332), (90, 63371), (94, 63392), (122, 63485), (126, 63503), (127, 63506), (140, 63554), (141, 63560), (144, 63572),

Gene: Highbury_107 Start: 61589, Stop: 61963, Start Num: 50

Candidate Starts for Highbury_107:

(Start: 40 @61535 has 1 MA's), (Start: 50 @61589 has 101 MA's), (Start: 75 @61643 has 2 MA's), (Start: 83 @61670 has 3 MA's), (84, 61679), (90, 61718), (94, 61739), (122, 61832), (126, 61850), (127, 61853), (140, 61901), (160, 61952),

Gene: Hollow_49 Start: 48928, Stop: 48560, Start Num: 77

Candidate Starts for Hollow_49:

(Start: 77 @48928 has 30 MA's), (Start: 83 @48904 has 3 MA's), (128, 48697), (149, 48628), (167, 48571),

Gene: Holt_117 Start: 64172, Stop: 64504, Start Num: 64

Candidate Starts for Holt_117:

(Start: 64 @64172 has 18 MA's), (Start: 81 @64202 has 1 MA's), (102, 64346), (121, 64394), (127, 64418), (149, 64490),

Gene: Hoonter_114 Start: 63737, Stop: 64111, Start Num: 50

Candidate Starts for Hoonter_114:

(Start: 40 @63683 has 1 MA's), (Start: 50 @63737 has 101 MA's), (Start: 83 @63818 has 3 MA's), (84, 63827), (90, 63866), (94, 63887), (122, 63980), (126, 63998), (127, 64001), (140, 64049), (160, 64100),

Gene: Hokey_111 Start: 64043, Stop: 64417, Start Num: 50

Candidate Starts for Hokey_111:

(Start: 40 @63989 has 1 MA's), (Start: 50 @64043 has 101 MA's), (Start: 83 @64124 has 3 MA's), (84, 64133), (90, 64172), (94, 64193), (122, 64286), (126, 64304), (127, 64307), (140, 64355), (160, 64406),

Gene: Hotorobo_54 Start: 48308, Stop: 47946, Start Num: 69

Candidate Starts for Hotorobo_54:

(Start: 69 @48308 has 24 MA's), (Start: 73 @48299 has 19 MA's), (Start: 83 @48269 has 3 MA's), (96, 48194), (122, 48104), (128, 48077), (136, 48044), (144, 48014), (161, 47978),

Gene: HufflyPuff_113 Start: 64352, Stop: 64726, Start Num: 50

Candidate Starts for HufflyPuff_113:

(Start: 40 @64298 has 1 MA's), (Start: 50 @64352 has 101 MA's), (Start: 83 @64433 has 3 MA's), (84, 64442), (90, 64481), (94, 64502), (122, 64595), (126, 64613), (127, 64616), (140, 64664), (160, 64715),

Gene: HumptyDumpty_92 Start: 60665, Stop: 61027, Start Num: 74

Candidate Starts for HumptyDumpty_92:

(Start: 74 @60665 has 15 MA's), (Start: 86 @60710 has 1 MA's), (87, 60713), (90, 60734), (100, 60809), (107, 60839), (112, 60857), (127, 60902), (143, 60962), (144, 60968),

Gene: IAmGroot_30 Start: 23648, Stop: 24001, Start Num: 68

Candidate Starts for IAmGroot_30:

(36, 23534), (Start: 68 @23648 has 2 MA's), (Start: 83 @23681 has 3 MA's), (117, 23846), (131, 23894), (138, 23921),

Gene: IHOP_109 Start: 62960, Stop: 63334, Start Num: 50

Candidate Starts for IHOP_109:

(Start: 40 @62906 has 1 MA's), (Start: 50 @62960 has 101 MA's), (Start: 75 @63014 has 2 MA's), (Start: 83 @63041 has 3 MA's), (84, 63050), (90, 63089), (94, 63110), (122, 63203), (126, 63221), (127, 63224), (140, 63272), (141, 63278), (144, 63290),

Gene: Icee_113 Start: 63282, Stop: 63614, Start Num: 64

Candidate Starts for Icee_113:

(Start: 64 @63282 has 18 MA's), (Start: 81 @63312 has 1 MA's), (102, 63456), (121, 63504), (127, 63528), (149, 63600),

Gene: Inca_108 Start: 61449, Stop: 61823, Start Num: 50

Candidate Starts for Inca_108:

(Start: 50 @61449 has 101 MA's), (Start: 64 @61491 has 18 MA's), (Start: 81 @61521 has 1 MA's), (102, 61665), (121, 61713), (127, 61737), (149, 61809),

Gene: Island3_56 Start: 37993, Stop: 38289, Start Num: 73

Candidate Starts for Island3_56:

(62, 37969), (Start: 73 @37993 has 19 MA's), (Start: 83 @38017 has 3 MA's), (88, 38047), (93, 38071), (115, 38149), (117, 38161), (121, 38170), (126, 38191), (145, 38260),

Gene: Iter_28 Start: 22439, Stop: 22807, Start Num: 77

Candidate Starts for Iter_28:

(Start: 77 @22439 has 30 MA's), (Start: 83 @22463 has 3 MA's), (121, 22649),

Gene: IttyBittyPiggy_28 Start: 22679, Stop: 23044, Start Num: 34

Candidate Starts for IttyBittyPiggy_28:

(Start: 34 @22679 has 24 MA's), (Start: 83 @22703 has 3 MA's), (96, 22778), (121, 22889), (163, 23027),

Gene: JaNo_91 Start: 60681, Stop: 60998, Start Num: 86

Candidate Starts for JaNo_91:

(Start: 74 @60636 has 15 MA's), (Start: 86 @60681 has 1 MA's), (87, 60684), (90, 60705), (100, 60780), (107, 60810), (112, 60828), (127, 60873), (143, 60933), (144, 60939),

Gene: Jams_51 Start: 47931, Stop: 47566, Start Num: 67

Candidate Starts for Jams_51:

(Start: 67 @47931 has 35 MA's), (Start: 83 @47889 has 3 MA's), (99, 47784), (128, 47697), (135, 47667), (136, 47664), (144, 47634),

Gene: Jamun_50 Start: 33451, Stop: 33831, Start Num: 55

Candidate Starts for Jamun_50:

(Start: 49 @33442 has 1 MA's), (Start: 55 @33451 has 16 MA's), (Start: 83 @33484 has 3 MA's), (104, 33616), (116, 33655), (129, 33703), (133, 33727), (151, 33781),

Gene: Janeemi_30 Start: 24658, Stop: 25026, Start Num: 77

Candidate Starts for Janeemi_30:

(Start: 77 @24658 has 30 MA's), (Start: 83 @24682 has 3 MA's), (110, 24835), (121, 24868),

Gene: JasmineDragon_33 Start: 23709, Stop: 24083, Start Num: 76

Candidate Starts for JasmineDragon_33:

(Start: 76 @23709 has 7 MA's), (Start: 83 @23733 has 3 MA's), (98, 23826), (114, 23898), (127, 23946), (149, 24021),

Gene: JayCookie_92 Start: 61198, Stop: 61560, Start Num: 74

Candidate Starts for JayCookie_92:

(Start: 74 @61198 has 15 MA's), (Start: 86 @61243 has 1 MA's), (87, 61246), (90, 61267), (100, 61342), (107, 61372), (112, 61390), (127, 61435), (143, 61495), (144, 61501),

Gene: JeTaime_110 Start: 63384, Stop: 63716, Start Num: 64

Candidate Starts for JeTaime_110:

(Start: 64 @63384 has 18 MA's), (Start: 81 @63414 has 1 MA's), (102, 63558), (121, 63606), (127, 63630), (149, 63702),

Gene: Jellybones_56 Start: 49403, Stop: 49041, Start Num: 69

Candidate Starts for Jellybones_56:

(Start: 69 @49403 has 24 MA's), (Start: 73 @49394 has 19 MA's), (Start: 83 @49364 has 3 MA's), (96, 49289), (122, 49199), (128, 49172), (136, 49139), (144, 49109), (149, 49103),

Gene: Joemato_29 Start: 22364, Stop: 22729, Start Num: 34

Candidate Starts for Joemato_29:

(Start: 34 @22364 has 24 MA's), (Start: 83 @22388 has 3 MA's), (120, 22571),

Gene: John316_57 Start: 49466, Stop: 49104, Start Num: 69

Candidate Starts for John316_57:

(Start: 69 @49466 has 24 MA's), (Start: 73 @49457 has 19 MA's), (Start: 83 @49427 has 3 MA's), (96, 49352), (122, 49262), (128, 49235), (136, 49202), (144, 49172), (161, 49136),

Gene: JohnDoe_27 Start: 22359, Stop: 22724, Start Num: 34

Candidate Starts for JohnDoe_27:

(Start: 34 @22359 has 24 MA's), (Start: 83 @22383 has 3 MA's), (120, 22566),

Gene: Jormungandr_51 Start: 48474, Stop: 48109, Start Num: 67

Candidate Starts for Jormungandr_51:

(Start: 67 @48474 has 35 MA's), (Start: 83 @48432 has 3 MA's), (99, 48327), (128, 48240), (135, 48210), (136, 48207), (144, 48177),

Gene: Jstan_31 Start: 24469, Stop: 24813, Start Num: 83

Candidate Starts for Jstan_31:

(15, 24280), (Start: 34 @24445 has 24 MA's), (Start: 83 @24469 has 3 MA's),

Gene: JuneStar_28 Start: 24589, Stop: 24957, Start Num: 77

Candidate Starts for JuneStar_28:

(15, 24424), (Start: 77 @24589 has 30 MA's), (Start: 83 @24613 has 3 MA's),

Gene: Juno112_54 Start: 33123, Stop: 33518, Start Num: 45

Candidate Starts for Juno112_54:

(45, 33123), (Start: 56 @33147 has 4 MA's), (82, 33174), (Start: 83 @33186 has 3 MA's), (92, 33237), (103, 33306), (104, 33315), (111, 33339), (116, 33354), (133, 33426), (151, 33480),

Gene: KBurrousTX_90 Start: 62135, Stop: 62494, Start Num: 74

Candidate Starts for KBurrousTX_90:

(Start: 74 @62135 has 15 MA's), (Start: 86 @62180 has 1 MA's), (87, 62183), (90, 62204), (100, 62279), (107, 62309), (112, 62327), (127, 62372), (143, 62432),

Gene: KHumphrey_53 Start: 33011, Stop: 33406, Start Num: 45

Candidate Starts for KHumphrey_53:

(45, 33011), (Start: 56 @33035 has 4 MA's), (82, 33062), (Start: 83 @33074 has 3 MA's), (92, 33125), (103, 33194), (104, 33203), (111, 33227), (116, 33242), (133, 33314), (151, 33368),

Gene: Kabreeze_92 Start: 60722, Stop: 61084, Start Num: 74

Candidate Starts for Kabreeze_92:

(Start: 74 @60722 has 15 MA's), (Start: 86 @60767 has 1 MA's), (87, 60770), (90, 60791), (100, 60866), (107, 60896), (112, 60914), (127, 60959), (143, 61019), (144, 61025),

Gene: Kanye_108 Start: 63493, Stop: 63867, Start Num: 50

Candidate Starts for Kanye_108:

(Start: 40 @63439 has 1 MA's), (Start: 50 @63493 has 101 MA's), (Start: 83 @63574 has 3 MA's), (84, 63583), (90, 63622), (94, 63643), (122, 63736), (126, 63754), (127, 63757), (140, 63805), (160, 63856),

Gene: Kaseim_51 Start: 47916, Stop: 47551, Start Num: 67

Candidate Starts for Kaseim_51:

(Start: 67 @47916 has 35 MA's), (Start: 83 @47874 has 3 MA's), (99, 47769), (128, 47682), (135, 47652), (136, 47649), (144, 47619),

Gene: Katyusha_48 Start: 48592, Stop: 48224, Start Num: 77

Candidate Starts for Katyusha_48:

(Start: 77 @48592 has 30 MA's), (Start: 83 @48568 has 3 MA's), (128, 48361), (149, 48292), (167, 48235),

Gene: Kaylissa_27 Start: 22354, Stop: 22719, Start Num: 34

Candidate Starts for Kaylissa_27:

(Start: 34 @22354 has 24 MA's), (Start: 83 @22378 has 3 MA's), (120, 22561),

Gene: KeAlii_28 Start: 22518, Stop: 22889, Start Num: 77

Candidate Starts for KeAlii_28:

(15, 22341), (Start: 77 @22518 has 30 MA's), (Start: 83 @22542 has 3 MA's),

Gene: Kepler_54 Start: 32767, Stop: 33135, Start Num: 55

Candidate Starts for Kepler_54:

(Start: 49 @32758 has 1 MA's), (Start: 55 @32767 has 16 MA's), (Start: 83 @32809 has 3 MA's), (103, 32926), (104, 32935), (116, 32974), (133, 33046), (151, 33100),

Gene: Kimchi_116 Start: 63899, Stop: 64231, Start Num: 64

Candidate Starts for Kimchi_116:

(Start: 64 @63899 has 18 MA's), (Start: 81 @63929 has 1 MA's), (102, 64073), (121, 64121), (127, 64145), (149, 64217),

Gene: Kostya_111 Start: 63062, Stop: 63436, Start Num: 50

Candidate Starts for Kostya_111:

(Start: 40 @63008 has 1 MA's), (Start: 50 @63062 has 101 MA's), (Start: 75 @63116 has 2 MA's), (Start: 83 @63143 has 3 MA's), (84, 63152), (90, 63191), (94, 63212), (122, 63305), (126, 63323), (127, 63326), (140, 63374), (141, 63380), (144, 63392),

Gene: Kuleana_54 Start: 32362, Stop: 32733, Start Num: 55

Candidate Starts for Kuleana_54:

(Start: 49 @32353 has 1 MA's), (Start: 55 @32362 has 16 MA's), (61, 32383), (Start: 83 @32404 has 3 MA's), (96, 32479), (103, 32521), (104, 32530), (116, 32569), (118, 32575), (133, 32641), (134, 32647),

Gene: Kvothe_48 Start: 48491, Stop: 48123, Start Num: 77

Candidate Starts for Kvothe_48:

(Start: 77 @48491 has 30 MA's), (Start: 83 @48467 has 3 MA's), (128, 48260), (149, 48191), (167, 48134),

Gene: Lahirium_51 Start: 48996, Stop: 48631, Start Num: 67

Candidate Starts for Lahirium_51:

(Start: 67 @48996 has 35 MA's), (Start: 83 @48954 has 3 MA's), (99, 48849), (128, 48762), (135, 48732), (136, 48729), (144, 48699),

Gene: Lego_27 Start: 22308, Stop: 22673, Start Num: 34

Candidate Starts for Lego_27:

(Start: 34 @22308 has 24 MA's), (Start: 83 @22332 has 3 MA's), (120, 22515),

Gene: Leona_53 Start: 33226, Stop: 33597, Start Num: 56

Candidate Starts for Leona_53:

(45, 33202), (Start: 56 @33226 has 4 MA's), (82, 33253), (Start: 83 @33265 has 3 MA's), (92, 33316), (103, 33385), (104, 33394), (111, 33418), (116, 33433), (133, 33505), (151, 33559),

Gene: Lidong_51 Start: 48731, Stop: 48366, Start Num: 67

Candidate Starts for Lidong_51:

(Start: 67 @48731 has 35 MA's), (Start: 83 @48689 has 3 MA's), (99, 48584), (128, 48497), (135, 48467), (136, 48464), (144, 48434),

Gene: Liebe_28 Start: 23243, Stop: 23641, Start Num: 77

Candidate Starts for Liebe_28:

(Start: 77 @23243 has 30 MA's), (Start: 83 @23267 has 3 MA's), (89, 23303), (114, 23432), (128, 23480), (136, 23513), (174, 23630),

Gene: Lilac_112 Start: 64186, Stop: 64560, Start Num: 50

Candidate Starts for Lilac_112:

(Start: 40 @64132 has 1 MA's), (Start: 50 @64186 has 101 MA's), (Start: 75 @64240 has 2 MA's), (Start: 83 @64267 has 3 MA's), (84, 64276), (90, 64315), (94, 64336), (122, 64429), (126, 64447), (127, 64450), (140, 64498), (160, 64549),

Gene: Lilizi_111 Start: 63472, Stop: 63846, Start Num: 50

Candidate Starts for Lilizi_111:

(Start: 40 @63418 has 1 MA's), (Start: 50 @63472 has 101 MA's), (Start: 83 @63553 has 3 MA's), (84, 63562), (90, 63601), (94, 63622), (122, 63715), (126, 63733), (127, 63736), (140, 63784), (160, 63835),

Gene: Lilpickle_110 Start: 62884, Stop: 63258, Start Num: 50

Candidate Starts for Lilpickle_110:

(Start: 40 @62830 has 1 MA's), (Start: 50 @62884 has 101 MA's), (Start: 75 @62938 has 2 MA's), (Start: 83 @62965 has 3 MA's), (84, 62974), (90, 63013), (94, 63034), (122, 63127), (126, 63145), (127, 63148), (140, 63196), (160, 63247),

Gene: Linetti_54 Start: 49072, Stop: 48710, Start Num: 69

Candidate Starts for Linetti_54:

(53, 49120), (Start: 69 @49072 has 24 MA's), (Start: 71 @49069 has 3 MA's), (Start: 83 @49033 has 3 MA's), (96, 48958), (122, 48868), (128, 48841), (136, 48808), (144, 48778), (149, 48772), (161, 48742),

Gene: Linus_92 Start: 61170, Stop: 61532, Start Num: 74

Candidate Starts for Linus_92:

(Start: 74 @61170 has 15 MA's), (Start: 86 @61215 has 1 MA's), (87, 61218), (90, 61239), (100, 61314), (107, 61344), (112, 61362), (127, 61407), (143, 61467), (144, 61473),

Gene: LittleE_170 Start: 88113, Stop: 88469, Start Num: 67

Candidate Starts for LittleE_170:

(Start: 67 @88113 has 35 MA's), (Start: 83 @88155 has 3 MA's), (96, 88230), (121, 88311), (144, 88404), (149, 88410), (150, 88413), (159, 88434), (165, 88458),

Gene: LittleTokyo_51 Start: 31575, Stop: 31949, Start Num: 69

Candidate Starts for LittleTokyo_51:

(45, 31518), (Start: 69 @31575 has 24 MA's), (Start: 83 @31614 has 3 MA's), (104, 31743), (110, 31764), (133, 31854), (137, 31869), (142, 31887), (151, 31908),

Gene: Lizalica_27 Start: 22357, Stop: 22722, Start Num: 34

Candidate Starts for Lizalica_27:

(15, 22192), (Start: 34 @22357 has 24 MA's), (Start: 83 @22381 has 3 MA's), (120, 22564),

Gene: Lizzo_54 Start: 48297, Stop: 47935, Start Num: 69

Candidate Starts for Lizzo_54:

(Start: 69 @48297 has 24 MA's), (Start: 73 @48288 has 19 MA's), (Start: 83 @48258 has 3 MA's), (96, 48183), (122, 48093), (128, 48066), (136, 48033), (144, 48003), (161, 47967),

Gene: London_29 Start: 24459, Stop: 24827, Start Num: 77

Candidate Starts for London_29:

(8, 24144), (10, 24156), (Start: 77 @24459 has 30 MA's), (Start: 80 @24465 has 1 MA's), (Start: 83 @24483 has 3 MA's),

Gene: Lucky2013_159 Start: 83586, Stop: 83966, Start Num: 67

Candidate Starts for Lucky2013_159:

(Start: 67 @83586 has 35 MA's), (Start: 83 @83628 has 3 MA's), (96, 83703), (121, 83784), (144, 83877), (149, 83883), (150, 83886), (159, 83907), (165, 83931), (171, 83955),

Gene: Luker_52 Start: 48949, Stop: 48584, Start Num: 67

Candidate Starts for Luker_52:

(Start: 67 @48949 has 35 MA's), (Start: 83 @48907 has 3 MA's), (99, 48802), (128, 48715), (135, 48685), (136, 48682), (144, 48652),

Gene: Lunar_54 Start: 32679, Stop: 33047, Start Num: 55

Candidate Starts for Lunar_54:

(Start: 49 @32670 has 1 MA's), (Start: 55 @32679 has 16 MA's), (Start: 83 @32721 has 3 MA's), (103, 32838), (104, 32847), (116, 32886), (133, 32958), (151, 33012),

Gene: Lymara_89 Start: 59643, Stop: 60005, Start Num: 74

Candidate Starts for Lymara_89:

(Start: 74 @59643 has 15 MA's), (Start: 86 @59688 has 1 MA's), (87, 59691), (90, 59712), (100, 59787), (107, 59817), (112, 59835), (127, 59880), (143, 59940),

Gene: MISSy_112 Start: 64169, Stop: 64543, Start Num: 50

Candidate Starts for MISSy_112:

(Start: 40 @64115 has 1 MA's), (Start: 50 @64169 has 101 MA's), (Start: 83 @64250 has 3 MA's), (84, 64259), (90, 64298), (94, 64319), (122, 64412), (126, 64430), (127, 64433), (140, 64481), (160, 64532),

Gene: MPhalcon_112 Start: 63587, Stop: 63961, Start Num: 50

Candidate Starts for MPhalcon_112:

(Start: 40 @63533 has 1 MA's), (Start: 50 @63587 has 101 MA's), (Start: 83 @63668 has 3 MA's), (84, 63677), (90, 63716), (94, 63737), (122, 63830), (126, 63848), (127, 63851), (140, 63899), (160, 63950),

Gene: MaGuCo_26 Start: 22035, Stop: 22442, Start Num: 77

Candidate Starts for MaGuCo_26:

(4, 21519), (17, 21711), (38, 21909), (42, 21936), (Start: 77 @22035 has 30 MA's), (Start: 83 @22059 has 3 MA's), (114, 22224), (136, 22305), (174, 22431),

Gene: MadamMonkfish_110 Start: 62894, Stop: 63268, Start Num: 50

Candidate Starts for MadamMonkfish_110:

(Start: 40 @62840 has 1 MA's), (Start: 50 @62894 has 101 MA's), (Start: 75 @62948 has 2 MA's), (Start: 83 @62975 has 3 MA's), (84, 62984), (90, 63023), (94, 63044), (122, 63137), (126, 63155), (127, 63158), (140, 63206), (160, 63257),

Gene: Manda_112 Start: 63624, Stop: 63998, Start Num: 50

Candidate Starts for Manda_112:

(Start: 40 @63570 has 1 MA's), (Start: 50 @63624 has 101 MA's), (Start: 75 @63678 has 2 MA's), (Start: 83 @63705 has 3 MA's), (84, 63714), (90, 63753), (94, 63774), (122, 63867), (126, 63885), (127, 63888), (140, 63936), (141, 63942), (160, 63987),

Gene: Marshmallow_110 Start: 64096, Stop: 64428, Start Num: 64

Candidate Starts for Marshmallow_110:

(Start: 64 @64096 has 18 MA's), (Start: 81 @64126 has 1 MA's), (102, 64270), (121, 64318), (127, 64342), (149, 64414),

Gene: MaryV_88 Start: 53723, Stop: 54085, Start Num: 73

Candidate Starts for MaryV_88:

(Start: 71 @53717 has 3 MA's), (72, 53720), (Start: 73 @53723 has 19 MA's), (Start: 77 @53729 has 30 MA's), (Start: 83 @53753 has 3 MA's), (90, 53795), (93, 53807), (103, 53870), (105, 53876), (120, 53915), (124, 53930), (125, 53939), (126, 53942), (127, 53945), (136, 53981), (140, 53993), (143, 54005), (144, 54011),

Gene: Maureen_28 Start: 23243, Stop: 23641, Start Num: 77

Candidate Starts for Maureen_28:

(Start: 77 @23243 has 30 MA's), (Start: 83 @23267 has 3 MA's), (89, 23303), (114, 23432), (128, 23480), (136, 23513), (174, 23630),

Gene: Maxxinista_113 Start: 63371, Stop: 63745, Start Num: 50

Candidate Starts for Maxxinista_113:

(Start: 40 @63317 has 1 MA's), (Start: 50 @63371 has 101 MA's), (Start: 75 @63425 has 2 MA's), (Start: 83 @63452 has 3 MA's), (84, 63461), (90, 63500), (94, 63521), (122, 63614), (126, 63632), (127, 63635), (140, 63683), (160, 63734),

Gene: Melons_54 Start: 32493, Stop: 32861, Start Num: 55

Candidate Starts for Melons_54:

(Start: 49 @32484 has 1 MA's), (Start: 55 @32493 has 16 MA's), (Start: 83 @32535 has 3 MA's), (103, 32652), (104, 32661), (116, 32700), (133, 32772), (151, 32826),

Gene: MiaZeal_166 Start: 84733, Stop: 85113, Start Num: 67

Candidate Starts for MiaZeal_166:

(Start: 67 @84733 has 35 MA's), (Start: 83 @84775 has 3 MA's), (96, 84850), (121, 84931), (144, 85024), (149, 85030), (150, 85033), (159, 85054), (165, 85078), (171, 85102),

Gene: Mindy_110 Start: 62903, Stop: 63277, Start Num: 50

Candidate Starts for Mindy_110:

(Start: 40 @62849 has 1 MA's), (Start: 50 @62903 has 101 MA's), (Start: 75 @62957 has 2 MA's), (Start: 83 @62984 has 3 MA's), (84, 62993), (90, 63032), (94, 63053), (122, 63146), (126, 63164),

(127, 63167), (140, 63215), (141, 63221), (144, 63233),

Gene: MiniMommy_34 Start: 23734, Stop: 24084, Start Num: 83

Candidate Starts for MiniMommy_34:

(Start: 76 @23710 has 7 MA's), (Start: 83 @23734 has 3 MA's), (98, 23827), (114, 23899), (127, 23947), (149, 24022),

Gene: Miniwave_106 Start: 63080, Stop: 63454, Start Num: 50

Candidate Starts for Miniwave_106:

(Start: 40 @63026 has 1 MA's), (Start: 50 @63080 has 101 MA's), (Start: 83 @63161 has 3 MA's), (84, 63170), (90, 63209), (94, 63230), (122, 63323), (126, 63341), (127, 63344), (140, 63392), (160, 63443),

Gene: Minos_52 Start: 48473, Stop: 48108, Start Num: 67

Candidate Starts for Minos_52:

(Start: 67 @48473 has 35 MA's), (Start: 83 @48431 has 3 MA's), (99, 48326), (128, 48239), (135, 48209), (136, 48206), (144, 48176),

Gene: Misfit_112 Start: 64683, Stop: 65057, Start Num: 50

Candidate Starts for Misfit_112:

(Start: 40 @64629 has 1 MA's), (Start: 50 @64683 has 101 MA's), (Start: 83 @64764 has 3 MA's), (84, 64773), (90, 64812), (94, 64833), (122, 64926), (126, 64944), (127, 64947), (140, 64995), (160, 65046),

Gene: MissSwiss_26 Start: 20779, Stop: 21147, Start Num: 34

Candidate Starts for MissSwiss_26:

(Start: 34 @20779 has 24 MA's), (Start: 83 @20803 has 3 MA's), (121, 20989), (128, 21016), (135, 21046),

Gene: Moldemort_113 Start: 63352, Stop: 63726, Start Num: 50

Candidate Starts for Moldemort_113:

(Start: 40 @63298 has 1 MA's), (Start: 50 @63352 has 101 MA's), (Start: 75 @63406 has 2 MA's), (Start: 83 @63433 has 3 MA's), (84, 63442), (90, 63481), (94, 63502), (122, 63595), (126, 63613), (127, 63616), (140, 63664), (160, 63715),

Gene: Monty_53 Start: 47447, Stop: 47085, Start Num: 69

Candidate Starts for Monty_53:

(Start: 69 @47447 has 24 MA's), (Start: 73 @47438 has 19 MA's), (Start: 83 @47408 has 3 MA's), (96, 47333), (122, 47243), (128, 47216), (136, 47183), (144, 47153), (161, 47117),

Gene: Mordred_92 Start: 60806, Stop: 61123, Start Num: 86

Candidate Starts for Mordred_92:

(Start: 74 @60761 has 15 MA's), (Start: 86 @60806 has 1 MA's), (87, 60809), (90, 60830), (100, 60905), (107, 60935), (112, 60953), (127, 60998), (143, 61058), (144, 61064),

Gene: Mosby_108 Start: 63047, Stop: 63421, Start Num: 50

Candidate Starts for Mosby_108:

(Start: 40 @62993 has 1 MA's), (Start: 50 @63047 has 101 MA's), (Start: 83 @63128 has 3 MA's), (84, 63137), (90, 63176), (94, 63197), (122, 63290), (126, 63308), (127, 63311), (140, 63359), (160, 63410),

Gene: MoyaNatalis_91 Start: 60689, Stop: 61006, Start Num: 86

Candidate Starts for MoyaNatalis_91:

(Start: 74 @60644 has 15 MA's), (Start: 86 @60689 has 1 MA's), (87, 60692), (90, 60713), (100, 60788), (107, 60818), (112, 60836), (127, 60881), (143, 60941), (144, 60947),

Gene: MrWormie_51 Start: 47634, Stop: 47269, Start Num: 67

Candidate Starts for MrWormie_51:

(Start: 67 @47634 has 35 MA's), (Start: 83 @47592 has 3 MA's), (99, 47487), (128, 47400), (135, 47370), (136, 47367), (144, 47337),

Gene: Msay19_58 Start: 49817, Stop: 49455, Start Num: 69

Candidate Starts for Msay19_58:

(Start: 69 @49817 has 24 MA's), (Start: 73 @49808 has 19 MA's), (Start: 83 @49778 has 3 MA's), (96, 49703), (122, 49613), (126, 49592), (128, 49586), (136, 49553), (144, 49523), (149, 49517),

Gene: Mudpuppy_28 Start: 22359, Stop: 22724, Start Num: 34

Candidate Starts for Mudpuppy_28:

(15, 22197), (Start: 34 @22359 has 24 MA's), (Start: 83 @22383 has 3 MA's), (120, 22566),

Gene: Mulch_65 Start: 42205, Stop: 42591, Start Num: 73

Candidate Starts for Mulch_65:

(22, 41965), (27, 42013), (32, 42034), (39, 42088), (51, 42148), (Start: 67 @42193 has 35 MA's), (Start: 73 @42205 has 19 MA's), (Start: 83 @42235 has 3 MA's), (96, 42310), (127, 42412), (144, 42478),

Gene: Murica_115 Start: 65386, Stop: 65760, Start Num: 50

Candidate Starts for Murica_115:

(Start: 40 @65332 has 1 MA's), (Start: 50 @65386 has 101 MA's), (Start: 83 @65467 has 3 MA's), (84, 65476), (90, 65515), (94, 65536), (122, 65629), (126, 65647), (127, 65650), (140, 65698), (160, 65749),

Gene: Murphy_110 Start: 63744, Stop: 64118, Start Num: 50

Candidate Starts for Murphy_110:

(Start: 40 @63690 has 1 MA's), (Start: 50 @63744 has 101 MA's), (Start: 75 @63798 has 2 MA's), (Start: 83 @63825 has 3 MA's), (84, 63834), (90, 63873), (94, 63894), (122, 63987), (126, 64005), (127, 64008), (140, 64056), (160, 64107),

Gene: Myrale_111 Start: 63841, Stop: 64215, Start Num: 50

Candidate Starts for Myrale_111:

(Start: 50 @63841 has 101 MA's), (Start: 75 @63895 has 2 MA's), (Start: 83 @63922 has 3 MA's), (84, 63931), (90, 63970), (94, 63991), (122, 64084), (126, 64102), (127, 64105), (140, 64153), (141, 64159), (144, 64171),

Gene: Nadeem_65 Start: 42193, Stop: 42579, Start Num: 73

Candidate Starts for Nadeem_65:

(22, 41953), (27, 42001), (32, 42022), (39, 42076), (51, 42136), (Start: 67 @42181 has 35 MA's), (Start: 73 @42193 has 19 MA's), (Start: 83 @42223 has 3 MA's), (96, 42298), (127, 42400), (144, 42466),

Gene: Nala_113 Start: 64096, Stop: 64470, Start Num: 50

Candidate Starts for Nala_113:

(Start: 40 @64042 has 1 MA's), (Start: 50 @64096 has 101 MA's), (Start: 75 @64150 has 2 MA's), (Start: 83 @64177 has 3 MA's), (84, 64186), (90, 64225), (94, 64246), (122, 64339), (126, 64357), (127, 64360), (140, 64408), (160, 64459),

Gene: NancyRae_64 Start: 42143, Stop: 42529, Start Num: 73

Candidate Starts for NancyRae_64:

(27, 41951), (32, 41972), (39, 42026), (51, 42086), (Start: 67 @42131 has 35 MA's), (Start: 73 @42143 has 19 MA's), (Start: 83 @42173 has 3 MA's), (96, 42248), (127, 42350), (144, 42416),

Gene: Nebkiss_126 Start: 68242, Stop: 68529, Start Num: 80

Candidate Starts for Nebkiss_126:

(Start: 77 @68236 has 30 MA's), (Start: 80 @68242 has 1 MA's), (Start: 83 @68260 has 3 MA's), (96, 68335), (115, 68407), (119, 68416), (138, 68482), (143, 68500), (144, 68506), (149, 68512),

Gene: NelitzaMV_108 Start: 62069, Stop: 62443, Start Num: 50

Candidate Starts for NelitzaMV_108:

(Start: 40 @62015 has 1 MA's), (Start: 50 @62069 has 101 MA's), (Start: 75 @62123 has 2 MA's), (Start: 83 @62150 has 3 MA's), (84, 62159), (90, 62198), (94, 62219), (122, 62312), (126, 62330), (127, 62333), (140, 62381), (160, 62432),

Gene: Neoevie_51 Start: 48735, Stop: 48370, Start Num: 67

Candidate Starts for Neoevie_51:

(Start: 67 @48735 has 35 MA's), (Start: 83 @48693 has 3 MA's), (99, 48588), (128, 48501), (135, 48471), (136, 48468), (144, 48438),

Gene: Newt_52 Start: 48963, Stop: 48598, Start Num: 67

Candidate Starts for Newt_52:

(Start: 67 @48963 has 35 MA's), (Start: 83 @48921 has 3 MA's), (99, 48816), (128, 48729), (135, 48699), (136, 48696), (144, 48666),

Gene: Niagara_48 Start: 48582, Stop: 48214, Start Num: 77

Candidate Starts for Niagara_48:

(Start: 77 @48582 has 30 MA's), (Start: 83 @48558 has 3 MA's), (128, 48351), (149, 48282), (167, 48225),

Gene: Nimi13_51 Start: 48482, Stop: 48117, Start Num: 67

Candidate Starts for Nimi13_51:

(Start: 67 @48482 has 35 MA's), (Start: 83 @48440 has 3 MA's), (99, 48335), (128, 48248), (135, 48218), (136, 48215), (144, 48185),

Gene: Nimrod_112 Start: 64244, Stop: 64576, Start Num: 64

Candidate Starts for Nimrod_112:

(Start: 64 @64244 has 18 MA's), (Start: 81 @64274 has 1 MA's), (102, 64418), (121, 64466), (127, 64490), (149, 64562),

Gene: Niobe_29 Start: 24445, Stop: 24813, Start Num: 34

Candidate Starts for Niobe_29:

(15, 24280), (Start: 34 @24445 has 24 MA's), (Start: 83 @24469 has 3 MA's),

Gene: Nitro_28 Start: 23769, Stop: 24137, Start Num: 34

Candidate Starts for Nitro_28:

(15, 23607), (Start: 34 @23769 has 24 MA's), (Start: 83 @23793 has 3 MA's), (92, 23844), (120, 23976),

Gene: NoSleep_111 Start: 62904, Stop: 63278, Start Num: 50

Candidate Starts for NoSleep_111:

(Start: 40 @62850 has 1 MA's), (Start: 50 @62904 has 101 MA's), (Start: 75 @62958 has 2 MA's), (Start: 83 @62985 has 3 MA's), (84, 62994), (90, 63033), (94, 63054), (122, 63147), (126, 63165), (127, 63168), (140, 63216), (160, 63267),

Gene: ObiToo_30 Start: 22889, Stop: 23257, Start Num: 77

Candidate Starts for ObiToo_30:

(10, 22481), (Start: 77 @22889 has 30 MA's), (Start: 83 @22913 has 3 MA's), (120, 23096), (121, 23099),

Gene: Optimus_161 Start: 87411, Stop: 87791, Start Num: 67

Candidate Starts for Optimus_161:

(Start: 67 @87411 has 35 MA's), (Start: 83 @87453 has 3 MA's), (96, 87528), (121, 87609), (144, 87702), (149, 87708), (150, 87711), (171, 87780),

Gene: Orcanus_52 Start: 34039, Stop: 34413, Start Num: 55

Candidate Starts for Orcanus_52:

(Start: 49 @34030 has 1 MA's), (Start: 55 @34039 has 16 MA's), (61, 34057), (Start: 83 @34078 has 3 MA's), (96, 34153), (104, 34210), (116, 34249), (126, 34288), (151, 34375),

Gene: OrionPax_109 Start: 62977, Stop: 63351, Start Num: 50

Candidate Starts for OrionPax_109:

(Start: 40 @62923 has 1 MA's), (Start: 50 @62977 has 101 MA's), (Start: 75 @63031 has 2 MA's), (Start: 83 @63058 has 3 MA's), (84, 63067), (90, 63106), (94, 63127), (122, 63220), (126, 63238), (127, 63241), (140, 63289), (160, 63340),

Gene: Palpatine_112 Start: 64381, Stop: 64755, Start Num: 50

Candidate Starts for Palpatine_112:

(Start: 40 @64327 has 1 MA's), (Start: 50 @64381 has 101 MA's), (Start: 75 @64435 has 2 MA's), (Start: 83 @64462 has 3 MA's), (84, 64471), (90, 64510), (94, 64531), (122, 64624), (126, 64642), (127, 64645), (140, 64693), (160, 64744),

Gene: Paperbeatsrock_110 Start: 63758, Stop: 64132, Start Num: 50

Candidate Starts for Paperbeatsrock_110:

(Start: 40 @63704 has 1 MA's), (Start: 50 @63758 has 101 MA's), (Start: 83 @63839 has 3 MA's), (84, 63848), (90, 63887), (94, 63908), (122, 64001), (126, 64019), (127, 64022), (140, 64070), (160, 64121),

Gene: Parada_65 Start: 42205, Stop: 42591, Start Num: 73

Candidate Starts for Parada_65:

(22, 41965), (27, 42013), (32, 42034), (39, 42088), (51, 42148), (Start: 67 @42193 has 35 MA's), (Start: 73 @42205 has 19 MA's), (Start: 83 @42235 has 3 MA's), (96, 42310), (127, 42412), (144, 42478),

Gene: Pat3_108 Start: 62397, Stop: 62771, Start Num: 50

Candidate Starts for Pat3_108:

(Start: 50 @62397 has 101 MA's), (Start: 75 @62451 has 2 MA's), (Start: 83 @62478 has 3 MA's), (84, 62487), (90, 62526), (91, 62529), (94, 62547), (122, 62640), (126, 62658), (127, 62661), (140, 62709), (141, 62715), (144, 62727),

Gene: Percival_30 Start: 24132, Stop: 24551, Start Num: 52

Candidate Starts for Percival_30:

(Start: 52 @24132 has 4 MA's), (Start: 83 @24219 has 3 MA's), (101, 24330), (109, 24360), (117, 24387), (121, 24396), (140, 24471),

Gene: Petra64142_115 Start: 64226, Stop: 64600, Start Num: 50

Candidate Starts for Petra64142_115:

(Start: 40 @64172 has 1 MA's), (Start: 50 @64226 has 101 MA's), (Start: 75 @64280 has 2 MA's),
(Start: 83 @64307 has 3 MA's), (84, 64316), (90, 64355), (94, 64376), (122, 64469), (126, 64487),
(127, 64490), (140, 64538), (141, 64544), (144, 64556), (160, 64589),

Gene: Phaja_109 Start: 62962, Stop: 63336, Start Num: 50

Candidate Starts for Phaja_109:

(Start: 40 @62908 has 1 MA's), (Start: 50 @62962 has 101 MA's), (Start: 75 @63016 has 2 MA's),
(Start: 83 @63043 has 3 MA's), (84, 63052), (90, 63091), (94, 63112), (122, 63205), (126, 63223),
(127, 63226), (140, 63274),

Gene: Pharsalus_108 Start: 63457, Stop: 63831, Start Num: 50

Candidate Starts for Pharsalus_108:

(Start: 40 @63403 has 1 MA's), (Start: 50 @63457 has 101 MA's), (Start: 83 @63538 has 3 MA's),
(84, 63547), (90, 63586), (94, 63607), (122, 63700), (126, 63718), (127, 63721), (140, 63769), (160,
63820),

Gene: PhatBacter_114 Start: 64126, Stop: 64500, Start Num: 50

Candidate Starts for PhatBacter_114:

(Start: 40 @64072 has 1 MA's), (Start: 50 @64126 has 101 MA's), (Start: 75 @64180 has 2 MA's),
(Start: 83 @64207 has 3 MA's), (84, 64216), (90, 64255), (94, 64276), (122, 64369), (126, 64387),
(127, 64390), (140, 64438), (160, 64489),

Gene: Phaux_113 Start: 64686, Stop: 65060, Start Num: 50

Candidate Starts for Phaux_113:

(Start: 40 @64632 has 1 MA's), (Start: 50 @64686 has 101 MA's), (Start: 75 @64740 has 2 MA's),
(Start: 83 @64767 has 3 MA's), (84, 64776), (90, 64815), (94, 64836), (122, 64929), (126, 64947),
(127, 64950), (140, 64998), (160, 65049),

Gene: Philon9_49 Start: 49613, Stop: 49245, Start Num: 77

Candidate Starts for Philon9_49:

(Start: 77 @49613 has 30 MA's), (Start: 83 @49589 has 3 MA's), (96, 49514), (123, 49403), (128,
49382), (149, 49313), (167, 49256),

Gene: Phives_30 Start: 24466, Stop: 24834, Start Num: 77

Candidate Starts for Phives_30:

(Start: 77 @24466 has 30 MA's), (Start: 83 @24490 has 3 MA's), (110, 24643), (154, 24784),

Gene: PhluffyCoco_54 Start: 33221, Stop: 33616, Start Num: 45

Candidate Starts for PhluffyCoco_54:

(45, 33221), (Start: 56 @33245 has 4 MA's), (82, 33272), (Start: 83 @33284 has 3 MA's), (92, 33335),
(103, 33404), (104, 33413), (111, 33437), (116, 33452), (133, 33524), (151, 33578),

Gene: Phrux_107 Start: 62764, Stop: 63138, Start Num: 50

Candidate Starts for Phrux_107:

(Start: 40 @62710 has 1 MA's), (Start: 50 @62764 has 101 MA's), (Start: 83 @62845 has 3 MA's),
(84, 62854), (90, 62893), (94, 62914), (122, 63007), (126, 63025), (127, 63028), (140, 63076), (160,
63127),

Gene: PierreThree_53 Start: 48715, Stop: 48356, Start Num: 71

Candidate Starts for PierreThree_53:

(Start: 69 @48718 has 24 MA's), (Start: 71 @48715 has 3 MA's), (Start: 83 @48679 has 3 MA's), (96, 48604), (122, 48514), (128, 48487), (136, 48454), (144, 48424), (149, 48418), (161, 48388),

Gene: Pimento_69 Start: 42324, Stop: 42710, Start Num: 73

Candidate Starts for Pimento_69:

(22, 42084), (27, 42132), (32, 42153), (39, 42207), (51, 42267), (Start: 67 @42312 has 35 MA's), (Start: 73 @42324 has 19 MA's), (Start: 83 @42354 has 3 MA's), (96, 42429), (127, 42531), (144, 42597),

Gene: Pixelle_29 Start: 24216, Stop: 24584, Start Num: 34

Candidate Starts for Pixelle_29:

(Start: 34 @24216 has 24 MA's), (35, 24222), (82, 24228), (Start: 83 @24240 has 3 MA's), (120, 24423),

Gene: PokyPuppy_53 Start: 48755, Stop: 48393, Start Num: 69

Candidate Starts for PokyPuppy_53:

(Start: 69 @48755 has 24 MA's), (Start: 83 @48716 has 3 MA's), (96, 48641), (97, 48638), (122, 48551), (128, 48524), (136, 48491), (141, 48473), (144, 48461), (149, 48455),

Gene: Poland_60 Start: 49796, Stop: 49434, Start Num: 69

Candidate Starts for Poland_60:

(Start: 69 @49796 has 24 MA's), (Start: 73 @49787 has 19 MA's), (Start: 83 @49757 has 3 MA's), (96, 49682), (122, 49592), (126, 49571), (128, 49565), (136, 49532), (144, 49502), (149, 49496),

Gene: Policronamos_115 Start: 64390, Stop: 64764, Start Num: 50

Candidate Starts for Policronamos_115:

(Start: 40 @64336 has 1 MA's), (Start: 50 @64390 has 101 MA's), (Start: 83 @64471 has 3 MA's), (84, 64480), (90, 64519), (94, 64540), (122, 64633), (126, 64651), (127, 64654), (140, 64702), (160, 64753),

Gene: Polka_53 Start: 32500, Stop: 32868, Start Num: 55

Candidate Starts for Polka_53:

(Start: 49 @32491 has 1 MA's), (Start: 55 @32500 has 16 MA's), (Start: 83 @32542 has 3 MA's), (103, 32659), (104, 32668), (116, 32707), (133, 32779), (151, 32833),

Gene: Porcelain_163 Start: 84532, Stop: 84912, Start Num: 67

Candidate Starts for Porcelain_163:

(Start: 67 @84532 has 35 MA's), (Start: 83 @84574 has 3 MA's), (96, 84649), (121, 84730), (144, 84823), (149, 84829), (150, 84832), (159, 84853), (165, 84877), (171, 84901),

Gene: Porky_110 Start: 63022, Stop: 63354, Start Num: 64

Candidate Starts for Porky_110:

(Start: 64 @63022 has 18 MA's), (Start: 81 @63052 has 1 MA's), (102, 63196), (121, 63244), (127, 63268), (149, 63340),

Gene: Powerpuff_27 Start: 22359, Stop: 22724, Start Num: 34

Candidate Starts for Powerpuff_27:

(Start: 34 @22359 has 24 MA's), (Start: 83 @22383 has 3 MA's), (120, 22566),

Gene: PrincessTrina_93 Start: 60952, Stop: 61314, Start Num: 74

Candidate Starts for PrincessTrina_93:

(Start: 74 @60952 has 15 MA's), (Start: 86 @60997 has 1 MA's), (87, 61000), (90, 61021), (100, 61096), (107, 61126), (112, 61144), (127, 61189), (143, 61249), (144, 61255),

Gene: Pumpkin_112 Start: 63104, Stop: 63478, Start Num: 50

Candidate Starts for Pumpkin_112:

(Start: 40 @63050 has 1 MA's), (Start: 50 @63104 has 101 MA's), (Start: 83 @63185 has 3 MA's), (84, 63194), (90, 63233), (94, 63254), (122, 63347), (126, 63365), (127, 63368), (140, 63416), (160, 63467),

Gene: Pumpkins_28 Start: 23311, Stop: 23679, Start Num: 77

Candidate Starts for Pumpkins_28:

(7, 22846), (Start: 77 @23311 has 30 MA's), (Start: 83 @23335 has 3 MA's), (121, 23521),

Gene: Quallification_112 Start: 64172, Stop: 64546, Start Num: 50

Candidate Starts for Quallification_112:

(Start: 40 @64118 has 1 MA's), (Start: 50 @64172 has 101 MA's), (Start: 83 @64253 has 3 MA's), (84, 64262), (90, 64301), (94, 64322), (122, 64415), (126, 64433), (127, 64436), (140, 64484), (160, 64535),

Gene: Rakim_112 Start: 63174, Stop: 63548, Start Num: 50

Candidate Starts for Rakim_112:

(Start: 40 @63120 has 1 MA's), (Start: 50 @63174 has 101 MA's), (Start: 75 @63228 has 2 MA's), (Start: 83 @63255 has 3 MA's), (84, 63264), (90, 63303), (94, 63324), (122, 63417), (126, 63435), (127, 63438), (140, 63486), (141, 63492), (144, 63504),

Gene: RedFox_54 Start: 33244, Stop: 33615, Start Num: 56

Candidate Starts for RedFox_54:

(45, 33220), (Start: 56 @33244 has 4 MA's), (82, 33271), (Start: 83 @33283 has 3 MA's), (92, 33334), (103, 33403), (104, 33412), (111, 33436), (116, 33451), (133, 33523), (151, 33577),

Gene: RedWattleHog_124 Start: 92547, Stop: 92891, Start Num: 76

Candidate Starts for RedWattleHog_124:

(Start: 76 @92547 has 7 MA's), (92, 92622), (100, 92676), (115, 92709), (125, 92748), (131, 92769), (144, 92820), (152, 92826), (161, 92850), (162, 92859),

Gene: Reedo_27 Start: 20942, Stop: 21310, Start Num: 34

Candidate Starts for Reedo_27:

(Start: 34 @20942 has 24 MA's), (Start: 83 @20966 has 3 MA's),

Gene: RemRem_55 Start: 47437, Stop: 47075, Start Num: 69

Candidate Starts for RemRem_55:

(Start: 69 @47437 has 24 MA's), (Start: 73 @47428 has 19 MA's), (Start: 83 @47398 has 3 MA's), (96, 47323), (122, 47233), (128, 47206), (136, 47173), (144, 47143), (161, 47107),

Gene: Renna12_53 Start: 33097, Stop: 33468, Start Num: 56

Candidate Starts for Renna12_53:

(45, 33073), (Start: 56 @33097 has 4 MA's), (82, 33124), (Start: 83 @33136 has 3 MA's), (103, 33256), (104, 33265), (111, 33289), (116, 33304), (133, 33376), (151, 33430),

Gene: Rimmer_109 Start: 63563, Stop: 63937, Start Num: 50

Candidate Starts for Rimmer_109:

(Start: 40 @63509 has 1 MA's), (Start: 50 @63563 has 101 MA's), (Start: 75 @63617 has 2 MA's), (Start: 83 @63644 has 3 MA's), (84, 63653), (90, 63692), (94, 63713), (122, 63806), (126, 63824), (127, 63827), (140, 63875), (160, 63926),

Gene: RiverMonster_110 Start: 63605, Stop: 64033, Start Num: 40

Candidate Starts for RiverMonster_110:

(Start: 40 @63605 has 1 MA's), (Start: 50 @63659 has 101 MA's), (Start: 83 @63740 has 3 MA's), (84, 63749), (90, 63788), (94, 63809), (122, 63902), (126, 63920), (127, 63923), (140, 63971), (160, 64022),

Gene: RosiePosie_92 Start: 60817, Stop: 61179, Start Num: 74

Candidate Starts for RosiePosie_92:

(Start: 74 @60817 has 15 MA's), (Start: 86 @60862 has 1 MA's), (87, 60865), (90, 60886), (100, 60961), (107, 60991), (112, 61009), (127, 61054), (143, 61114), (144, 61120),

Gene: RoyalG_53 Start: 48012, Stop: 47650, Start Num: 69

Candidate Starts for RoyalG_53:

(Start: 69 @48012 has 24 MA's), (Start: 73 @48003 has 19 MA's), (Start: 83 @47973 has 3 MA's), (93, 47919), (97, 47895), (144, 47718), (161, 47682),

Gene: Ruchi_50 Start: 32934, Stop: 33320, Start Num: 55

Candidate Starts for Ruchi_50:

(Start: 49 @32925 has 1 MA's), (Start: 55 @32934 has 16 MA's), (61, 32952), (Start: 83 @32973 has 3 MA's), (96, 33048), (104, 33105), (116, 33144), (129, 33192), (133, 33216), (151, 33270),

Gene: Saints25_107 Start: 61589, Stop: 61963, Start Num: 50

Candidate Starts for Saints25_107:

(Start: 40 @61535 has 1 MA's), (Start: 50 @61589 has 101 MA's), (Start: 75 @61643 has 2 MA's), (Start: 83 @61670 has 3 MA's), (84, 61679), (90, 61718), (94, 61739), (122, 61832), (126, 61850), (127, 61853), (140, 61901), (160, 61952),

Gene: Sam12_53 Start: 47437, Stop: 47075, Start Num: 69

Candidate Starts for Sam12_53:

(Start: 69 @47437 has 24 MA's), (Start: 73 @47428 has 19 MA's), (Start: 83 @47398 has 3 MA's), (96, 47323), (122, 47233), (128, 47206), (136, 47173), (144, 47143), (161, 47107),

Gene: Sassay_106 Start: 62009, Stop: 62383, Start Num: 50

Candidate Starts for Sassay_106:

(Start: 40 @61955 has 1 MA's), (Start: 50 @62009 has 101 MA's), (Start: 83 @62090 has 3 MA's), (84, 62099), (90, 62138), (94, 62159), (122, 62252), (126, 62270), (127, 62273), (140, 62321), (160, 62372),

Gene: Scavito_93 Start: 60810, Stop: 61172, Start Num: 74

Candidate Starts for Scavito_93:

(Start: 74 @60810 has 15 MA's), (Start: 86 @60855 has 1 MA's), (87, 60858), (90, 60879), (100, 60954), (107, 60984), (112, 61002), (127, 61047), (143, 61107), (144, 61113),

Gene: ShakeltOph_34 Start: 23733, Stop: 24083, Start Num: 83

Candidate Starts for ShakeltOph_34:

(Start: 76 @23709 has 7 MA's), (Start: 83 @23733 has 3 MA's), (98, 23826), (114, 23898), (127, 23946), (149, 24021),

Gene: ShamWow_111 Start: 64057, Stop: 64431, Start Num: 50

Candidate Starts for ShamWow_111:

(Start: 50 @64057 has 101 MA's), (Start: 75 @64111 has 2 MA's), (Start: 83 @64138 has 3 MA's), (84, 64147), (90, 64186), (94, 64207), (122, 64300), (126, 64318), (127, 64321), (140, 64369), (141, 64375), (144, 64387),

Gene: Shambre1_62 Start: 40086, Stop: 40415, Start Num: 58
Candidate Starts for Shambre1_62:
(Start: 58 @40086 has 1 MA's), (Start: 83 @40113 has 3 MA's), (104, 40245),

Gene: Shelley_51 Start: 47958, Stop: 47593, Start Num: 67
Candidate Starts for Shelley_51:
(Start: 67 @47958 has 35 MA's), (Start: 83 @47916 has 3 MA's), (99, 47811), (128, 47724), (135, 47694), (136, 47691), (144, 47661),

Gene: ShereKhan_109 Start: 64418, Stop: 64792, Start Num: 50
Candidate Starts for ShereKhan_109:
(Start: 40 @64364 has 1 MA's), (Start: 50 @64418 has 101 MA's), (Start: 83 @64499 has 3 MA's), (84, 64508), (90, 64547), (94, 64568), (122, 64661), (126, 64679), (127, 64682), (140, 64730), (160, 64781),

Gene: Simpliphy_109 Start: 63230, Stop: 63604, Start Num: 50
Candidate Starts for Simpliphy_109:
(Start: 40 @63176 has 1 MA's), (Start: 50 @63230 has 101 MA's), (Start: 75 @63284 has 2 MA's), (Start: 83 @63311 has 3 MA's), (84, 63320), (90, 63359), (94, 63380), (122, 63473), (126, 63491), (127, 63494), (140, 63542), (160, 63593),

Gene: Simpson_29 Start: 22364, Stop: 22729, Start Num: 34
Candidate Starts for Simpson_29:
(Start: 34 @22364 has 24 MA's), (Start: 83 @22388 has 3 MA's), (120, 22571),

Gene: SirDuracell_111 Start: 62896, Stop: 63270, Start Num: 50
Candidate Starts for SirDuracell_111:
(Start: 50 @62896 has 101 MA's), (Start: 75 @62950 has 2 MA's), (Start: 83 @62977 has 3 MA's), (84, 62986), (90, 63025), (94, 63046), (122, 63139), (126, 63157), (127, 63160), (140, 63208), (141, 63214), (144, 63226),

Gene: Snek_28 Start: 21512, Stop: 21880, Start Num: 34
Candidate Starts for Snek_28:
(Start: 34 @21512 has 24 MA's), (Start: 83 @21536 has 3 MA's),

Gene: Sombrero_54 Start: 47804, Stop: 47439, Start Num: 69
Candidate Starts for Sombrero_54:
(Start: 69 @47804 has 24 MA's), (Start: 73 @47795 has 19 MA's), (Start: 83 @47765 has 3 MA's), (96, 47690), (122, 47600), (128, 47573), (136, 47540), (144, 47510), (149, 47504),

Gene: SophKB_109 Start: 63219, Stop: 63593, Start Num: 50
Candidate Starts for SophKB_109:
(Start: 40 @63165 has 1 MA's), (Start: 50 @63219 has 101 MA's), (Start: 75 @63273 has 2 MA's), (Start: 83 @63300 has 3 MA's), (84, 63309), (90, 63348), (94, 63369), (122, 63462), (126, 63480), (127, 63483), (140, 63531), (141, 63537), (144, 63549),

Gene: Sotrice96_112 Start: 63683, Stop: 64057, Start Num: 50
Candidate Starts for Sotrice96_112:
(Start: 40 @63629 has 1 MA's), (Start: 50 @63683 has 101 MA's), (Start: 75 @63737 has 2 MA's), (Start: 83 @63764 has 3 MA's), (84, 63773), (90, 63812), (94, 63833), (122, 63926), (126, 63944), (127, 63947), (140, 63995), (141, 64001), (144, 64013),

Gene: Squibbles_53 Start: 48300, Stop: 47935, Start Num: 69

Candidate Starts for Squibbles_53:

(Start: 69 @48300 has 24 MA's), (Start: 73 @48291 has 19 MA's), (Start: 83 @48261 has 3 MA's), (96, 48186), (122, 48096), (128, 48069), (136, 48036), (144, 48006), (161, 47970),

Gene: Squint_157 Start: 84398, Stop: 84778, Start Num: 67

Candidate Starts for Squint_157:

(Start: 67 @84398 has 35 MA's), (Start: 83 @84440 has 3 MA's), (96, 84515), (144, 84689), (149, 84695), (150, 84698), (171, 84767),

Gene: Stank_114 Start: 63971, Stop: 64303, Start Num: 64

Candidate Starts for Stank_114:

(Start: 64 @63971 has 18 MA's), (Start: 81 @64001 has 1 MA's), (102, 64145), (121, 64193), (127, 64217), (149, 64289),

Gene: Stark_111 Start: 63543, Stop: 63917, Start Num: 50

Candidate Starts for Stark_111:

(Start: 40 @63489 has 1 MA's), (Start: 50 @63543 has 101 MA's), (Start: 83 @63624 has 3 MA's), (84, 63633), (90, 63672), (94, 63693), (122, 63786), (126, 63804), (127, 63807), (140, 63855), (160, 63906),

Gene: StellaBean_109 Start: 63840, Stop: 64214, Start Num: 50

Candidate Starts for StellaBean_109:

(Start: 40 @63786 has 1 MA's), (Start: 50 @63840 has 101 MA's), (Start: 75 @63894 has 2 MA's), (Start: 83 @63921 has 3 MA's), (84, 63930), (90, 63969), (94, 63990), (122, 64083), (126, 64101), (127, 64104), (140, 64152), (160, 64203),

Gene: SteveFrench_52 Start: 48252, Stop: 47890, Start Num: 69

Candidate Starts for SteveFrench_52:

(Start: 69 @48252 has 24 MA's), (Start: 73 @48243 has 19 MA's), (Start: 83 @48213 has 3 MA's), (93, 48159), (97, 48135), (144, 47958), (161, 47922),

Gene: Sticker17_51 Start: 48473, Stop: 48108, Start Num: 67

Candidate Starts for Sticker17_51:

(Start: 67 @48473 has 35 MA's), (Start: 83 @48431 has 3 MA's), (99, 48326), (128, 48239), (135, 48209), (136, 48206), (144, 48176),

Gene: StolenFromERC_113 Start: 63382, Stop: 63756, Start Num: 50

Candidate Starts for StolenFromERC_113:

(Start: 40 @63328 has 1 MA's), (Start: 50 @63382 has 101 MA's), (Start: 83 @63463 has 3 MA's), (84, 63472), (90, 63511), (94, 63532), (122, 63625), (126, 63643), (127, 63646), (140, 63694), (160, 63745),

Gene: Stormageddon_123 Start: 92481, Stop: 92825, Start Num: 76

Candidate Starts for Stormageddon_123:

(Start: 76 @92481 has 7 MA's), (92, 92556), (100, 92610), (115, 92643), (125, 92682), (131, 92703), (144, 92754), (152, 92760), (161, 92784), (162, 92793),

Gene: SuMoo_28 Start: 21704, Stop: 22096, Start Num: 157

Candidate Starts for SuMoo_28:

(16, 21047), (21, 21116), (31, 21197), (157, 21704), (173, 21773), (176, 21851), (177, 21884), (178, 21914), (179, 21941),

Gene: Sue2_29 Start: 23242, Stop: 23610, Start Num: 77

Candidate Starts for Sue2_29:

(15, 23062), (Start: 77 @23242 has 30 MA's), (Start: 83 @23266 has 3 MA's), (127, 23476), (155, 23563),

Gene: Superphikiman_160 Start: 83453, Stop: 83833, Start Num: 67

Candidate Starts for Superphikiman_160:

(Start: 67 @83453 has 35 MA's), (Start: 83 @83495 has 3 MA's), (96, 83570), (144, 83744), (149, 83750), (150, 83753), (171, 83822),

Gene: TBrady12_115 Start: 63408, Stop: 63740, Start Num: 64

Candidate Starts for TBrady12_115:

(Start: 64 @63408 has 18 MA's), (Start: 81 @63438 has 1 MA's), (102, 63582), (121, 63630), (127, 63654), (149, 63726),

Gene: Tallboi_28 Start: 23797, Stop: 24162, Start Num: 34

Candidate Starts for Tallboi_28:

(Start: 34 @23797 has 24 MA's), (Start: 83 @23821 has 3 MA's), (120, 24004),

Gene: Tarkin_110 Start: 64283, Stop: 64657, Start Num: 50

Candidate Starts for Tarkin_110:

(Start: 40 @64229 has 1 MA's), (Start: 50 @64283 has 101 MA's), (Start: 83 @64364 has 3 MA's), (84, 64373), (90, 64412), (94, 64433), (122, 64526), (126, 64544), (127, 64547), (140, 64595), (160, 64646),

Gene: TaylorSipht_52 Start: 33579, Stop: 33953, Start Num: 55

Candidate Starts for TaylorSipht_52:

(Start: 55 @33579 has 16 MA's), (82, 33606), (Start: 83 @33618 has 3 MA's), (94, 33681), (103, 33741), (104, 33750), (137, 33876), (147, 33906), (151, 33915),

Gene: Tbone_27 Start: 22383, Stop: 22748, Start Num: 34

Candidate Starts for Tbone_27:

(15, 22221), (Start: 34 @22383 has 24 MA's), (Start: 83 @22407 has 3 MA's), (120, 22590),

Gene: Teal_51 Start: 48940, Stop: 48575, Start Num: 67

Candidate Starts for Teal_51:

(Start: 67 @48940 has 35 MA's), (Start: 83 @48898 has 3 MA's), (99, 48793), (128, 48706), (135, 48676), (136, 48673), (144, 48643),

Gene: TeardropMSU_107 Start: 62785, Stop: 63159, Start Num: 50

Candidate Starts for TeardropMSU_107:

(Start: 40 @62731 has 1 MA's), (Start: 50 @62785 has 101 MA's), (Start: 75 @62839 has 2 MA's), (Start: 83 @62866 has 3 MA's), (84, 62875), (90, 62914), (94, 62935), (122, 63028), (126, 63046), (127, 63049), (140, 63097), (141, 63103), (144, 63115),

Gene: Teaspoon_112 Start: 63986, Stop: 64288, Start Num: 81

Candidate Starts for Teaspoon_112:

(Start: 64 @63956 has 18 MA's), (Start: 81 @63986 has 1 MA's), (102, 64130), (121, 64178), (127, 64202), (149, 64274),

Gene: Teatealatte_49 Start: 48494, Stop: 48126, Start Num: 77

Candidate Starts for Teatealatte_49:

(Start: 77 @48494 has 30 MA's), (Start: 83 @48470 has 3 MA's), (128, 48263), (149, 48194), (167, 48137),

Gene: Teech_49 Start: 48295, Stop: 47927, Start Num: 77

Candidate Starts for Teech_49:

(Start: 77 @48295 has 30 MA's), (Start: 83 @48271 has 3 MA's), (128, 48064), (149, 47995), (167, 47938),

Gene: Terminus_114 Start: 64683, Stop: 65057, Start Num: 50

Candidate Starts for Terminus_114:

(Start: 40 @64629 has 1 MA's), (Start: 50 @64683 has 101 MA's), (Start: 83 @64764 has 3 MA's), (84, 64773), (90, 64812), (94, 64833), (122, 64926), (126, 64944), (127, 64947), (140, 64995), (160, 65046),

Gene: TforTroy_29 Start: 23185, Stop: 23553, Start Num: 77

Candidate Starts for TforTroy_29:

(8, 22750), (10, 22762), (Start: 77 @23185 has 30 MA's), (Start: 83 @23209 has 3 MA's), (120, 23392),

Gene: Thresher_112 Start: 64323, Stop: 64697, Start Num: 50

Candidate Starts for Thresher_112:

(Start: 40 @64269 has 1 MA's), (Start: 50 @64323 has 101 MA's), (Start: 83 @64404 has 3 MA's), (84, 64413), (90, 64452), (94, 64473), (122, 64566), (126, 64584), (127, 64587), (140, 64635), (160, 64686),

Gene: Tian_28 Start: 24196, Stop: 24564, Start Num: 34

Candidate Starts for Tian_28:

(15, 24034), (Start: 34 @24196 has 24 MA's), (Start: 83 @24220 has 3 MA's), (120, 24403),

Gene: Tomaszewski_106 Start: 63221, Stop: 63595, Start Num: 50

Candidate Starts for Tomaszewski_106:

(Start: 40 @63167 has 1 MA's), (Start: 50 @63221 has 101 MA's), (Start: 83 @63302 has 3 MA's), (84, 63311), (90, 63350), (94, 63371), (122, 63464), (126, 63482), (127, 63485), (140, 63533), (160, 63584),

Gene: Tophat_93 Start: 60999, Stop: 61361, Start Num: 74

Candidate Starts for Tophat_93:

(Start: 74 @60999 has 15 MA's), (Start: 86 @61044 has 1 MA's), (87, 61047), (90, 61068), (100, 61143), (107, 61173), (112, 61191), (127, 61236), (143, 61296), (144, 61302),

Gene: Toto_109 Start: 64057, Stop: 64431, Start Num: 50

Candidate Starts for Toto_109:

(Start: 50 @64057 has 101 MA's), (Start: 75 @64111 has 2 MA's), (Start: 83 @64138 has 3 MA's), (84, 64147), (90, 64186), (94, 64207), (122, 64300), (126, 64318), (127, 64321), (140, 64369), (141, 64375), (144, 64387),

Gene: Traaww1_107 Start: 62606, Stop: 62980, Start Num: 50

Candidate Starts for Traaww1_107:

(Start: 50 @62606 has 101 MA's), (Start: 75 @62660 has 2 MA's), (Start: 83 @62687 has 3 MA's), (84, 62696), (90, 62735), (91, 62738), (94, 62756), (122, 62849), (126, 62867), (127, 62870), (140, 62918), (141, 62924), (144, 62936),

Gene: Tredge_49 Start: 48494, Stop: 48126, Start Num: 77

Candidate Starts for Tredge_49:

(Start: 77 @48494 has 30 MA's), (Start: 83 @48470 has 3 MA's), (128, 48263), (149, 48194), (167, 48137),

Gene: Tuck_31 Start: 25007, Stop: 25378, Start Num: 77

Candidate Starts for Tuck_31:

(23, 24872), (24, 24875), (25, 24893), (30, 24929), (Start: 77 @25007 has 30 MA's), (Start: 80 @25013 has 1 MA's), (Start: 83 @25031 has 3 MA's), (121, 25217),

Gene: Tuco_112 Start: 64844, Stop: 65218, Start Num: 50

Candidate Starts for Tuco_112:

(Start: 40 @64790 has 1 MA's), (Start: 50 @64844 has 101 MA's), (Start: 75 @64898 has 2 MA's), (Start: 83 @64925 has 3 MA's), (84, 64934), (90, 64973), (94, 64994), (122, 65087), (126, 65105), (127, 65108), (140, 65156), (141, 65162), (144, 65174),

Gene: Turab_27 Start: 22274, Stop: 22639, Start Num: 34

Candidate Starts for Turab_27:

(15, 22109), (Start: 34 @22274 has 24 MA's), (Start: 83 @22298 has 3 MA's), (135, 22541),

Gene: Tutumahutu_27 Start: 22358, Stop: 22723, Start Num: 34

Candidate Starts for Tutumahutu_27:

(Start: 34 @22358 has 24 MA's), (Start: 83 @22382 has 3 MA's), (120, 22565),

Gene: Tweety19_28 Start: 21511, Stop: 21879, Start Num: 34

Candidate Starts for Tweety19_28:

(Start: 34 @21511 has 24 MA's), (Start: 83 @21535 has 3 MA's),

Gene: UtzChips_27 Start: 22046, Stop: 22438, Start Num: 54

Candidate Starts for UtzChips_27:

(Start: 54 @22046 has 2 MA's), (Start: 83 @22112 has 3 MA's), (97, 22190),

Gene: VResidence_28 Start: 22506, Stop: 22880, Start Num: 34

Candidate Starts for VResidence_28:

(Start: 34 @22506 has 24 MA's), (Start: 83 @22530 has 3 MA's), (121, 22716),

Gene: VroomVroom_33 Start: 23804, Stop: 24178, Start Num: 76

Candidate Starts for VroomVroom_33:

(Start: 76 @23804 has 7 MA's), (Start: 83 @23828 has 3 MA's), (98, 23921), (114, 23993), (122, 24017), (127, 24041), (149, 24116),

Gene: Vulpecula_50 Start: 32594, Stop: 32980, Start Num: 55

Candidate Starts for Vulpecula_50:

(Start: 49 @32585 has 1 MA's), (Start: 55 @32594 has 16 MA's), (61, 32612), (Start: 83 @32633 has 3 MA's), (96, 32708), (104, 32765), (116, 32804), (129, 32852), (133, 32876), (151, 32930),

Gene: Warda_27 Start: 22358, Stop: 22723, Start Num: 34

Candidate Starts for Warda_27:

(15, 22196), (Start: 34 @22358 has 24 MA's), (Start: 83 @22382 has 3 MA's), (120, 22565),

Gene: WheatThin_64 Start: 42193, Stop: 42579, Start Num: 73

Candidate Starts for WheatThin_64:

(22, 41953), (27, 42001), (32, 42022), (39, 42076), (51, 42136), (Start: 67 @42181 has 35 MA's), (Start: 73 @42193 has 19 MA's), (Start: 83 @42223 has 3 MA's), (96, 42298), (127, 42400), (144,

42466),

Gene: Wiggin_114 Start: 63401, Stop: 63733, Start Num: 64

Candidate Starts for Wiggin_114:

(Start: 64 @63401 has 18 MA's), (Start: 81 @63431 has 1 MA's), (102, 63575), (121, 63623), (127, 63647), (149, 63719),

Gene: Wildcat_88 Start: 53727, Stop: 54095, Start Num: 71

Candidate Starts for Wildcat_88:

(Start: 71 @53727 has 3 MA's), (72, 53730), (Start: 73 @53733 has 19 MA's), (Start: 77 @53739 has 30 MA's), (Start: 83 @53763 has 3 MA's), (90, 53805), (93, 53817), (103, 53880), (105, 53886), (120, 53925), (124, 53940), (125, 53949), (126, 53952), (127, 53955), (136, 53991), (140, 54003), (143, 54015), (144, 54021),

Gene: Wildwest_28 Start: 22362, Stop: 22703, Start Num: 83

Candidate Starts for Wildwest_28:

(Start: 34 @22338 has 24 MA's), (Start: 83 @22362 has 3 MA's), (121, 22548),

Gene: Willez_106 Start: 62009, Stop: 62383, Start Num: 50

Candidate Starts for Willez_106:

(Start: 40 @61955 has 1 MA's), (Start: 50 @62009 has 101 MA's), (Start: 83 @62090 has 3 MA's), (84, 62099), (90, 62138), (94, 62159), (122, 62252), (126, 62270), (127, 62273), (140, 62321), (160, 62372),

Gene: Woes_51 Start: 48991, Stop: 48626, Start Num: 67

Candidate Starts for Woes_51:

(Start: 67 @48991 has 35 MA's), (Start: 83 @48949 has 3 MA's), (99, 48844), (128, 48757), (135, 48727), (136, 48724), (144, 48694),

Gene: Xandras_111 Start: 63224, Stop: 63556, Start Num: 64

Candidate Starts for Xandras_111:

(Start: 64 @63224 has 18 MA's), (Start: 81 @63254 has 1 MA's), (102, 63398), (121, 63446), (127, 63470), (149, 63542),

Gene: Yang_28 Start: 22698, Stop: 23066, Start Num: 77

Candidate Starts for Yang_28:

(Start: 77 @22698 has 30 MA's), (Start: 83 @22722 has 3 MA's), (96, 22797),

Gene: YassJohnny_108 Start: 62030, Stop: 62404, Start Num: 50

Candidate Starts for YassJohnny_108:

(Start: 40 @61976 has 1 MA's), (Start: 50 @62030 has 101 MA's), (Start: 83 @62111 has 3 MA's), (84, 62120), (90, 62159), (94, 62180), (122, 62273), (126, 62291), (127, 62294), (140, 62342), (160, 62393),

Gene: YesChef_27 Start: 22359, Stop: 22724, Start Num: 34

Candidate Starts for YesChef_27:

(Start: 34 @22359 has 24 MA's), (Start: 83 @22383 has 3 MA's), (120, 22566),

Gene: Youngblood_115 Start: 64179, Stop: 64553, Start Num: 50

Candidate Starts for Youngblood_115:

(Start: 40 @64125 has 1 MA's), (Start: 50 @64179 has 101 MA's), (Start: 83 @64260 has 3 MA's), (84, 64269), (90, 64308), (94, 64329), (122, 64422), (126, 64440), (127, 64443), (140, 64491), (160, 64542),

Gene: xkcd_115 Start: 64364, Stop: 64738, Start Num: 50

Candidate Starts for xkcd_115:

(Start: 40 @64310 has 1 MA's), (Start: 50 @64364 has 101 MA's), (Start: 83 @64445 has 3 MA's),
(84, 64454), (90, 64493), (94, 64514), (122, 64607), (126, 64625), (127, 64628), (140, 64676), (160,
64727),