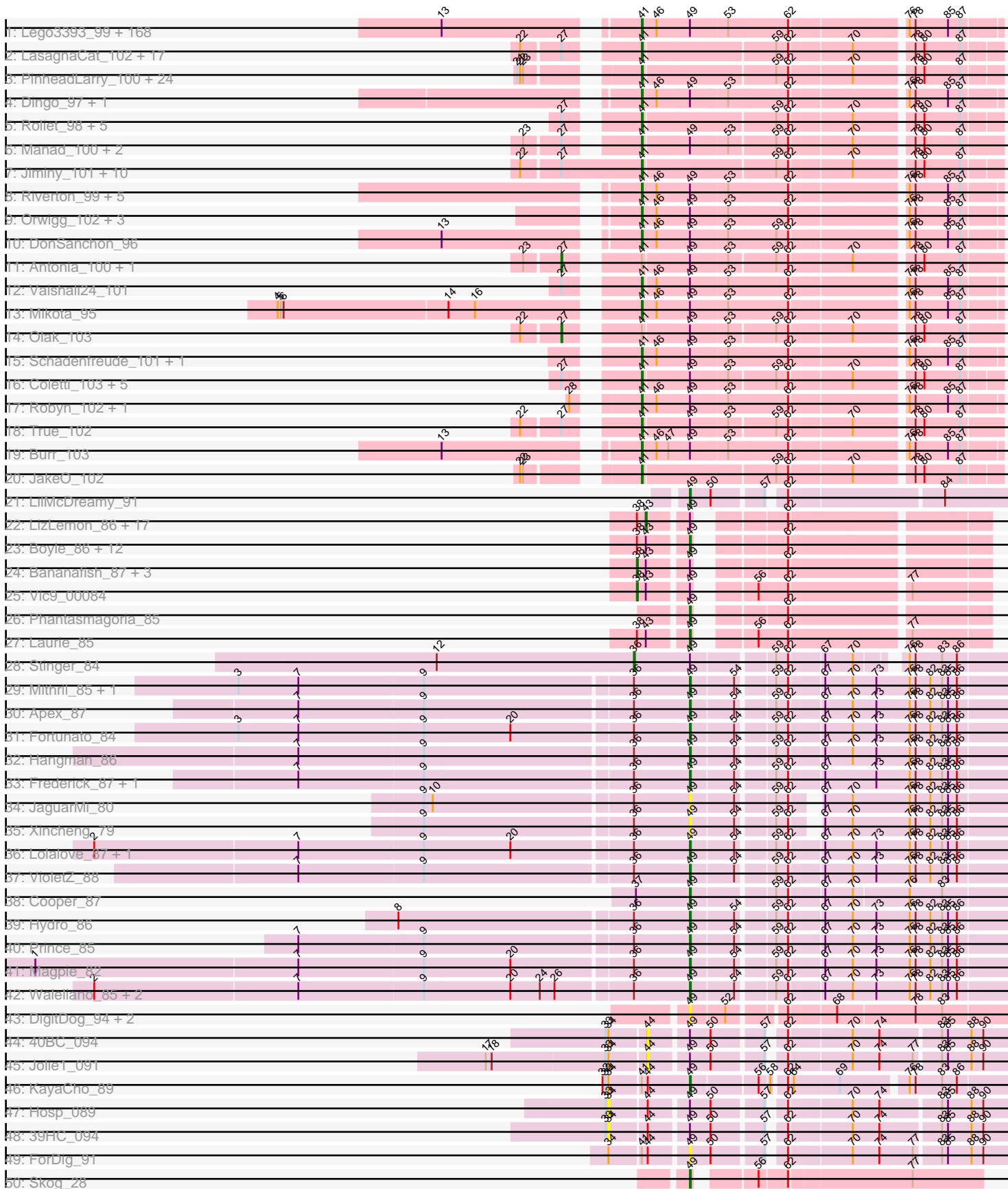
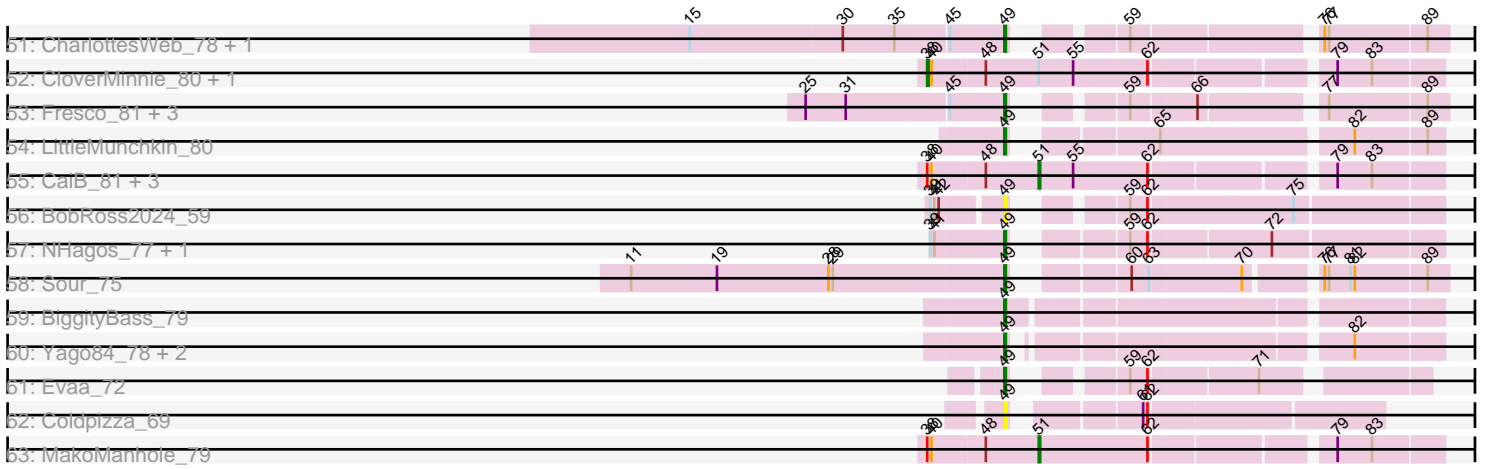


Pham 215729



Pham 215729



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 215729 Report

This analysis was run 02/22/25 on database version 588.

Pham number 215729 has 356 members, 41 are drafts.

Phages represented in each track:

- Track 1 : Lego3393_99, Chah_103, Placalicious_98, Pherdinand_102, Xavier_100, Quisquillae_103, FugateOSU_101, Jillium_101, Orfeu_101, Usavi_101, Slatt_103, Squiggle_100, Waterdiva_102, EmpTee_100, PhatCats2014_100, Bluephacebaby_100, Prickles_101, Numberten_101, Pipsqueak_98, Morty_101, SilverBell_102, Katniss_103, Matalotodo_99, Virapocalypse_102, Fringe_105, LostAndPhound_100, BlackStallion_100, LuckyMarjie_98, Scrick_102, Banjo_97, ShiVal_100, Mana_98, HenryJackson_101, Morgushi_98, FluffyNinja_102, Gophee_100, Mesh1_101, DoesntMatter_98, Mesmerelda_102, Mutante_102, DirtJuice_102, QueenBeane_101, AbsoluteMadLad_99, Kikipoo_103, Craff_102, TooFast2Furius_101, Kimbrough_102, Giraffe_102, Phunky_98, Serpentine_00103, Vista_100, Mulan_100, Adriana_101, Hertubise_100, Zelda_101, Simielle_101, Jesabah_101, Lasso_100, Podrick_99, Kahve_101, Beaglebox_97, Lumine_102, Oosterbaan_101, Fang_101, Childish_101, FriarPreacher_98, Chorkpop_102, Serendipity_100, Plmatters_98, JangoPhett_99, YouGoGlencoco_101, Hamish_98, RedMaple_99, ProfessorX_98, HighStump_103, CheetO_97, Sophia_99, Megamind20_103, Piglet_00100, Samaymay_101, Vaticameos_98, Mosaic_98, Telesworld_99, TomBombadil_101, PG1_99, Nyala_101, Maru_100, LeeLot_99, Riggan_102, Yoshand_102, Murdoc_97, Harvey_98, Held_99, Olive_97, Selr12_105, Hetaeria_100, Inverness_98, Phamished_100, Emiris_103, Tomlarah_101, Phareon_98, Haimas_98, Frankicide_98, UncleHowie_97, Toni_100, Swish_102, Lulumae_96, Altwerkus_98, Kwadwo_100, Buckeye_99, Nacho_00103, Thora_99, Cannibal_101, Omniscient_102, Chipette_98, Lulwa_98, Surely_101, Valjean_99, JacAttac_101, Colbert_99, Skippy_101, Mecca_101, Daffy_100, OliverWalter_100, Kloppinator_101, Gyarad_0099, Andre_105, Puhltonio_96, Timmi_99, Sigman_100, Boehler_98, Anderson_102, Cobra_101, Megatron_102, SassyCat97_99, Phipps_98, MitKao_101, UAch1_101, Newman_96, LemonSlice_101, Scoot17C_101, Iridoclysis_100, Spartan300_100, Legolas_102, Dione_99, Pacifista_103, Haleema_100, Roscoe_99, Cosmolli16_102, Charles1_104, Dice_101, Bishoperium_101, IsaacEli_103, Freya_97, MRabcd_101, Grand2040_98, Badfish_101, ABU_99, Orion_99, Roy17_98, Squid_100, Nicole21_102, PhrodoBaggins_103, KingTut_91, CamL_101, Potter_95, ThreeOh3D2_102, Zaider_102, Eugenia_103
- Track 2 : LasagnaCat_102, Phleuron_98, Wallhey_102, Nathan_100, Kailash_99, Caspiwai_102, Veritas_100, DuchessDung_98, Hartsy_99, Inchworm_102, CampRoach_101, Ashraf_102, ElvisPhasley_106, ImtiyazSitla_102, Maskar_102, Mag7_99, Kwksand96_102, Pinkman_100

- Track 3 : PinheadLarry_100, Gwennie1_98, LeiMonet_103, Iridessa_103, Hocus_100, MrPhizzler_100, Durga_103, Etaye_100, Swiphy_105, PhatLouie_103, JDog_100, Vortex_99, Weher20_98, TallGrassMM_100, Virgeve_99, Cornbread_102, GeneCoco_100, Doddsville_98, Melc17_98, DaddyDaniels_104, Trypo_101, Solosis_99, Brilliant_104, Dati_98, Khan1_101
- Track 4 : Dingo_97, Soto_97
- Track 5 : Roliet_98, Horchata_95, Sheila_95, BlueHusk_101, SDcharge11_99, Daka_102
- Track 6 : Manad_100, Cornobble_99, Vivaldi_101
- Track 7 : Jiminy_101, Gwilliam_101, Thunderbird_101, Ricotta_102, Duggie_101, Struggle_101, Longacauda_101, Plata_98, DelRivs_100, Jiraiya_102, KlimbOn_100
- Track 8 : Riverton_99, Basato_99, Suffolk_96, Pops_98, KLucky39_98, Crownjwl_98
- Track 9 : Orwigg_102, Cher_101, Gareth_101, Tooj_98
- Track 10 : DonSanchon_96
- Track 11 : Antonia_100, Aelin_100
- Track 12 : Vaishali24_101
- Track 13 : Mikota_95
- Track 14 : Olak_103
- Track 15 : Schadenfreude_101, Fozzie_97
- Track 16 : Coletti_103, Chute_101, Keitherie_104, Chaelin_101, SirBeauregard_101, Windsor_100
- Track 17 : Robyn_102, Carthage_101
- Track 18 : True_102
- Track 19 : Burr_103
- Track 20 : JakeO_102
- Track 21 : LilMcDreamy_91
- Track 22 : LizLemon_86, Glass_88, Qyrzula_77, Ares_86, ItsyBitsy1_83, FrenchFry_87, Lephleur_86, TA17A_89, Blocker23_86, Sabella_86, MasterPo_87, Tinciduntolum_87, Kheth_86, Godines_86, Arbiter_83, Brownie5_86, Holeinone_86, Hedgerow_86
- Track 23 : Boyle_86, West99_86, PrinceCharming_86, Coffee_85, Kaleb_86, Rosebush_84, Eaglehorse_87, Calamitous_87, Rhinoforte_86, Allegro_86, Faze9_85, Lars_87, Kolhan_87
- Track 24 : Bananafish_87, Tres_86, LilSmirk_86, Opia_87
- Track 25 : Vic9_00084
- Track 26 : Phantasmagoria_85
- Track 27 : Laurie_85
- Track 28 : Stinger_84
- Track 29 : Mithril_85, RawrgerThat_85
- Track 30 : Apex_87
- Track 31 : Fortunato_84
- Track 32 : Hangman_86
- Track 33 : Frederick_87, Zemanar_85
- Track 34 : JaguarMi_80
- Track 35 : Xincheng_79
- Track 36 : Lolalove_87, Fanaw_81
- Track 37 : VioletZ_88
- Track 38 : Cooper_87
- Track 39 : Hydro_86
- Track 40 : Prince_85
- Track 41 : Magpie_82
- Track 42 : Waleliano_85, Mudslide_86, BrownCNA_87

- Track 43 : DigitDog_94, Shenyu_93, Nangang_93
- Track 44 : 40BC_094
- Track 45 : Jolie1_091
- Track 46 : KayaCho_89
- Track 47 : Hosp_089
- Track 48 : 39HC_094
- Track 49 : ForDig_91
- Track 50 : Skog_28
- Track 51 : CharlottesWeb_78, Mariokart_78
- Track 52 : CloverMinnie_80, AnarQue_82
- Track 53 : Fresco_81, Ligma_81, Axumite_81, Shatter_81
- Track 54 : LittleMunchkin_80
- Track 55 : CaiB_81, Wooper_82, Yeshua_82, MossRose_80
- Track 56 : BobRoss2024_59
- Track 57 : NHagos_77, AksarBAT_81
- Track 58 : Sour_75
- Track 59 : BiggityBass_79
- Track 60 : Yago84_78, Sisko_79, AnClar_76
- Track 61 : Evaa_72
- Track 62 : Coldpizza_69
- Track 63 : MakoManhole_79

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

The start number called the most often in the published annotations is 41, it was called in 239 of the 315 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ABU_99, AbsoluteMadLad_99, Adriana_101, Altwerkus_98, Anderson_102, Andre_105, Ashraf_102, Badfish_101, Banjo_97, Basato_99, Beaglebox_97, Bishoperium_101, BlackStallion_100, BlueHusk_101, Bluephacebaby_100, Boehler_98, Brilliant_104, Buckeye_99, Burr_103, CamL_101, CampRoach_101, Cannibal_101, Carthage_101, Caspiroi_102, Chaelin_101, Chah_103, Charles1_104, CheetO_97, Cher_101, Childish_101, Chipette_98, Chorkpop_102, Chute_101, Cobra_101, Colbert_99, Coletti_103, Cornbread_102, Cornobble_99, Cosmolli16_102, Craff_102, Crownjwl_98, DaddyDaniels_104, Daffy_100, Daka_102, Dati_98, DelRivs_100, Dice_101, Dingo_97, Dione_99, DirtJuice_102, Doddsville_98, DoesntMatter_98, DonSancho_96, DuchessDung_98, Duggie_101, Durga_103, ElvisPhasley_106, Emiris_103, EmpTee_100, Etaye_100, Eugenia_103, Fang_101, FluffyNinja_102, Fozzie_97, Frankicide_98, Freya_97, FriarPreacher_98, Fringe_105, FugateOSU_101, Gareth_101, GeneCoco_100, Giraffe_102, Gophee_100, Grand2040_98, Gwennie1_98, Gwilliam_101, Gyarad_0099, Haimas_98, Haleema_100, Hamish_98, Hartsy_99, Harvey_98, Held_99, HenryJackson_101, Hertubise_100, Hetaeria_100, HighStump_103, Hocus_100, Horchata_95, ImtiyazSitla_102, Inchworm_102, Inverness_98, Iridessa_103, Iridoclysis_100, IsaacEli_103, JDog_100, JacAttac_101, JakeO_102, JangoPhett_99, Jesabah_101, Jillium_101, Jiminy_101, Jiraiya_102, KLucky39_98, Kahve_101, Kailash_99, Katniss_103, Keitherie_104, Khan1_101, Kikipoo_103, Kimbrough_102, KingTut_91, KlimbOn_100, Kloppinator_101, Kwadwo_100, Kwksand96_102, LasagnaCat_102, Lasso_100, LeeLot_99, Lego3393_99, Legolas_102, LeiMonet_103,

LemonSlice_101, Longacauda_101, LostAndPhound_100, LuckyMarjie_98, Lulumae_96, Lulwa_98, Lumine_102, MRabcd_101, Mag7_99, Mana_98, Manad_100, Maru_100, Maskar_102, Matalotodo_99, Mecca_101, Megamind20_103, Megatron_102, Melc17_98, Mesh1_101, Mesmerelda_102, Mikota_95, MitKao_101, Morgushi_98, Morty_101, Mosaic_98, MrPhizzler_100, Mulan_100, Murdoc_97, Mutante_102, Nacho_00103, Nathan_100, Newman_96, Nicole21_102, Numberbert_101, Nyala_101, Olive_97, OliverWalter_100, Omniscient_102, Oosterbaan_101, Orfeu_101, Orion_99, Orwigg_102, PG1_99, Pacifista_103, Phamished_100, Phareon_98, PhatCats2014_100, PhatLouie_103, Pherdinand_102, Phipps_98, Phleuron_98, PhrodoBaggins_103, Phunky_98, Piglet_00100, PinheadLarry_100, Pinkman_100, Pipsqueak_98, Placalicious_98, Plata_98, Plmatters_98, Podrick_99, Pops_98, Potter_95, Prickles_101, ProfessorX_98, Puhltonio_96, QueenBeane_101, Quisquiliae_103, RedMaple_99, Ricotta_102, Riggan_102, Riverton_99, Robyn_102, Roliet_98, Roscoe_99, Roy17_98, SDcharge11_99, Samaymay_101, SassyCat97_99, Schadenfreude_101, Scoot17C_101, Scrick_102, Selr12_105, Serendipity_100, Serpentine_00103, Sheila_95, ShiVal_100, Sigman_100, SilverBell_102, Simielle_101, SirBeauregard_101, Skippy_101, Slatt_103, Solosis_99, Sophia_99, Soto_97, Spartan300_100, Squid_100, Squiggle_100, Struggle_101, Suffolk_96, Surely_101, Swiphy_105, Swish_102, TallGrassMM_100, Telesworld_99, Thora_99, ThreeOh3D2_102, Thunderbird_101, Timmi_99, TomBombadil_101, Tomlarah_101, Toni_100, TooFast2Furius_101, Tooj_98, True_102, Trypo_101, UAch1_101, UncleHowie_97, Usavi_101, Vaishali24_101, Valjean_99, Vaticameos_98, Veritas_100, Virapocalypse_102, Virgeve_99, Vista_100, Vivaldi_101, Vortex_99, Wallhey_102, Waterdiva_102, Weher20_98, Windsor_100, Xavier_100, Yoshand_102, YouGoGlencoco_101, Zaider_102, Zelda_101,

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

- Aelin_100, AksarBAT_81, Antonia_100, BobRoss2024_59, ForDig_91, KayaCho_89, NHagos_77, Olak_103,

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

- 39HC_094, 40BC_094, Allegro_86, AnClar_76, AnarQue_82, Apex_87, Arbiter_83, Ares_86, Axumite_81, Bananafish_87, BiggityBass_79, Blocker23_86, Boyle_86, BrownCNA_87, Brownie5_86, CaiB_81, Calamitous_87, CharlottesWeb_78, CloverMinnie_80, Coffee_85, Coldpizza_69, Cooper_87, DigitDog_94, Eaglehorse_87, Evaa_72, Fanaw_81, Faze9_85, Fortunato_84, Frederick_87, FrenchFry_87, Fresco_81, Glass_88, Godines_86, Hangman_86, Hedgerow_86, Holeinone_86, Hosp_089, Hydro_86, ItsyBitsy1_83, JaguarMi_80, Jolie1_091, Kaleb_86, Kheth_86, Kolhan_87, Lars_87, Laurie_85, Lephleur_86, Ligma_81, LilMcDreamy_91, LilSmirk_86, LittleMunchkin_80, LizLemon_86, Lolalove_87, Magpie_82, MakoManhole_79, Mariokart_78, MasterPo_87, Mithril_85, MossRose_80, Mudslide_86, Nangang_93, Opia_87, Phantasmagoria_85, PrinceCharming_86, Prince_85, Qyrzula_77, RawrgerThat_85, Rhinoforte_86, Rosebush_84, Sabella_86, Shatter_81, Shenyu_93, Sisko_79, Skog_28, Sour_75, Stinger_84, TA17A_89, Tinciduntolum_87, Tres_86, Vic9_00084, VioletZ_88, Waleliano_85, West99_86, Wooper_82, Xincheng_79, Yago84_78, Yeshua_82, Zemanar_85,

Summary by start number:

Start 27:

- Found in 49 of 356 (13.8%) of genes in pham

- Manual Annotations of this start: 3 of 315
- Called 6.1% of time when present
- Phage (with cluster) where this start called: Aelin_100 (B1), Antonia_100 (B1), Olak_103 (B1),

Start 34:

- Found in 6 of 356 (1.7%) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: 39HC_094 (B6), Hosp_089 (B6),

Start 36:

- Found in 19 of 356 (5.3%) of genes in pham
- Manual Annotations of this start: 1 of 315
- Called 5.3% of time when present
- Phage (with cluster) where this start called: Stinger_84 (B4),

Start 38:

- Found in 44 of 356 (12.4%) of genes in pham
- Manual Annotations of this start: 6 of 315
- Called 15.9% of time when present
- Phage (with cluster) where this start called: AnarQue_82 (DR), Bananafish_87 (B2), CloverMinnie_80 (DR), LilSmirk_86 (B2), Opia_87 (B2), Tres_86 (B2), Vic9_00084 (B2),

Start 41:

- Found in 268 of 356 (75.3%) of genes in pham
- Manual Annotations of this start: 239 of 315
- Called 97.0% of time when present
- Phage (with cluster) where this start called: ABU_99 (B1), AbsoluteMadLad_99 (B1), Adriana_101 (B1), Altwerkus_98 (B1), Anderson_102 (B1), Andre_105 (B1), Ashraf_102 (B1), Badfish_101 (B1), Banjo_97 (B1), Basato_99 (B1), Beaglebox_97 (B1), Bishoperium_101 (B1), BlackStallion_100 (B1), BlueHusk_101 (B1), Bluephacebaby_100 (B1), Boehler_98 (B1), Brilliant_104 (B1), Buckeye_99 (B1), Burr_103 (B1), CamL_101 (B1), CampRoach_101 (B1), Cannibal_101 (B1), Carthage_101 (B1), Caspiboi_102 (B1), Chaelin_101 (B1), Chah_103 (B1), Charles1_104 (B1), CheetO_97 (B1), Cher_101 (B1), Childish_101 (B1), Chipette_98 (B1), Chorkpop_102 (B1), Chute_101 (B1), Cobra_101 (B1), Colbert_99 (B1), Coletti_103 (B1), Cornbread_102 (B1), Cornobble_99 (B1), Cosmolli16_102 (B1), Craff_102 (B1), Crownjwl_98 (B1), DaddyDaniels_104 (B1), Daffy_100 (B1), Daka_102 (B1), Dati_98 (B1), DelRivs_100 (B1), Dice_101 (B1), Dingo_97 (B1), Dione_99 (B1), DirtJuice_102 (B1), Doddsville_98 (B1), DoesntMatter_98 (B1), DonSanchon_96 (B1), DuchessDung_98 (B1), Duggie_101 (B1), Durga_103 (B1), ElvisPhasley_106 (B1), Emiris_103 (B1), EmpTee_100 (B1), Etaye_100 (B1), Eugenia_103 (B1), Fang_101 (B1), FluffyNinja_102 (B1), Fozzie_97 (B1), Frankicide_98 (B1), Freya_97 (B1), FriarPreacher_98 (B1), Fringe_105 (B1), FugateOSU_101 (B1), Gareth_101 (B1), GeneCoco_100 (B1), Giraffe_102 (B1), Gophee_100 (B1), Grand2040_98 (B1), Gwennie1_98 (B1), Gwilliam_101 (B1), Gyrad_0099 (B1), Haimas_98 (B1), Haleema_100 (B1), Hamish_98 (B1), Hartsy_99 (B1), Harvey_98 (B1), Held_99 (B1), HenryJackson_101 (B1), Hertubise_100 (B1), Hetaeria_100 (B1), HighStump_103 (B1), Hocus_100 (B1), Horchata_95 (B1), ImtiyazSitla_102 (B1), Inchworm_102 (B1), Inverness_98 (B1), Iridessa_103 (B1), Iridoclysis_100 (B1), IsaacEli_103 (B1), JDog_100 (B1), JacAttac_101 (B1),

JakeO_102 (B1), JangoPhett_99 (B1), Jesabah_101 (B1), Jillium_101 (B1), Jiminy_101 (B1), Jiraiya_102 (B1), KLucky39_98 (B1), Kahve_101 (B1), Kailash_99 (B1), Katniss_103 (B1), Keitherie_104 (B1), Khan1_101 (B1), Kikipoo_103 (B1), Kimbrough_102 (B1), KingTut_91 (B1), KlimbOn_100 (B1), Kloppinator_101 (B1), Kwadwo_100 (B1), Kwksand96_102 (B1), LasagnaCat_102 (B1), Lasso_100 (B1), LeeLot_99 (B1), Lego3393_99 (B1), Legolas_102 (B1), LeiMonet_103 (B1), LemonSlice_101 (B1), Longacauda_101 (B1), LostAndPhound_100 (B1), LuckyMarjie_98 (B1), Lulumae_96 (B1), Lulwa_98 (B1), Lumine_102 (B1), MRabcd_101 (B1), Mag7_99 (B1), Mana_98 (B1), Manad_100 (B1), Maru_100 (B1), Maskar_102 (B1), Matalotodo_99 (B1), Mecca_101 (B1), Megamind20_103 (B1), Megatron_102 (B1), Melc17_98 (B1), Mesh1_101 (B1), Mesmerelda_102 (B1), Mikota_95 (B1), MitKao_101 (B1), Morgushi_98 (B1), Morty_101 (B1), Mosaic_98 (B1), MrPhizzler_100 (B1), Mulan_100 (B1), Murdoc_97 (B1), Mutante_102 (B1), Nacho_00103 (B1), Nathan_100 (B1), Newman_96 (B1), Nicole21_102 (B1), Numberten_101 (B1), Nyala_101 (B1), Olive_97 (B1), OliverWalter_100 (B1), Omniscient_102 (B1), Oosterbaan_101 (B1), Orfeu_101 (B1), Orion_99 (B1), Orwigg_102 (B1), PG1_99 (B1), Pacifista_103 (B1), Phamished_100 (B1), Phareon_98 (B1), PhatCats2014_100 (B1), PhatLouie_103 (B1), Pherdinand_102 (B1), Phipps_98 (B1), Phleuron_98 (B1), PhrodoBaggins_103 (B1), Phunky_98 (B1), Piglet_00100 (B1), PinheadLarry_100 (B1), Pinkman_100 (B1), Pipsqueak_98 (B1), Placalicious_98 (B1), Plata_98 (B1), Plmatters_98 (B1), Podrick_99 (B1), Pops_98 (B1), Potter_95 (B1), Prickles_101 (B1), ProfessorX_98 (B1), Puhltonio_96 (B1), QueenBeane_101 (B1), Quisquillae_103 (B1), RedMaple_99 (B1), Ricotta_102 (B1), Riggan_102 (B1), Riverton_99 (B1), Robyn_102 (B1), Roliet_98 (B1), Roscoe_99 (B1), Roy17_98 (B1), SDcharge11_99 (B1), Samaymay_101 (B1), SassyCat97_99 (B1), Schadenfreude_101 (B1), Scoot17C_101 (B1), Scrick_102 (B1), Selr12_105 (B1), Serendipity_100 (B1), Serpentine_00103 (B1), Sheila_95 (B1), ShiVal_100 (B1), Sigman_100 (B1), SilverBell_102 (B1), Simielle_101 (B1), SirBeauregard_101 (B1), Skippy_101 (B1), Slatt_103 (B1), Solosis_99 (B1), Sophia_99 (B1), Soto_97 (B1), Spartan300_100 (B1), Squid_100 (B1), Squiggle_100 (B1), Struggle_101 (B1), Suffolk_96 (B1), Surely_101 (B1), Swiphy_105 (B1), Swish_102 (B1), TallGrassMM_100 (B1), Telesworld_99 (B1), Thora_99 (B1), ThreeOh3D2_102 (B1), Thunderbird_101 (B1), Timmi_99 (B1), TomBombadil_101 (B1), Tomlarah_101 (B1), Toni_100 (B1), TooFast2Furius_101 (B1), Tooj_98 (B1), True_102 (B1), Trypo_101 (B1), UAch1_101 (B1), UncleHowie_97 (B1), Usavi_101 (B1), Vaishali24_101 (B1), Valjean_99 (B1), Vaticameos_98 (B1), Veritas_100 (B1), Virapocalypse_102 (B1), Virgeve_99 (B1), Vista_100 (B1), Vivaldi_101 (B1), Vortex_99 (B1), Wallhey_102 (B1), Waterdiva_102 (B1), Weher20_98 (B1), Windsor_100 (B1), Xavier_100 (B1), Yoshand_102 (B1), YouGoGlencoco_101 (B1), Zaider_102 (B1), Zelda_101 (B1),

Start 43:

- Found in 37 of 356 (10.4%) of genes in pham
- Manual Annotations of this start: 18 of 315
- Called 48.6% of time when present
- Phage (with cluster) where this start called: Arbitr_83 (B2), Ares_86 (B2), Blocker23_86 (B2), Brownie5_86 (B2), FrenchFry_87 (B2), Glass_88 (B2), Godines_86 (B2), Hedgerow_86 (B2), Holeinone_86 (B2), ItsyBitsy1_83 (B2), Kheth_86 (B2), Lephleur_86 (B2), LizLemon_86 (B2), MasterPo_87 (B2), Qyrzula_77 (B2), Sabella_86 (B2), TA17A_89 (B2), Tinciduntolum_87 (B2),

Start 44:

- Found in 6 of 356 (1.7%) of genes in pham
- No Manual Annotations of this start.

- Called 33.3% of time when present
- Phage (with cluster) where this start called: 40BC_094 (B6), Jolie1_091 (B6),

Start 49:

- Found in 288 of 356 (80.9%) of genes in pham
- Manual Annotations of this start: 44 of 315
- Called 20.1% of time when present
- Phage (with cluster) where this start called: AksarBAT_81 (DR), Allegro_86 (B2), AnClar_76 (DR), Apex_87 (B4), Axumite_81 (DR), BiggityBass_79 (DR), BobRoss2024_59 (DR), Boyle_86 (B2), BrownCNA_87 (B4), Calamitous_87 (B2), CharlottesWeb_78 (DR), Coffee_85 (B2), Coldpizza_69 (DR), Cooper_87 (B4), DigitDog_94 (B5), Eaglehorse_87 (B2), Evaa_72 (DR), Fanaw_81 (B4), Faze9_85 (B2), ForDig_91 (B6), Fortunato_84 (B4), Frederick_87 (B4), Fresco_81 (DR), Hangman_86 (B4), Hydro_86 (B4), JaguarMi_80 (B4), Kaleb_86 (B2), KayaCho_89 (B6), Kolhan_87 (B2), Lars_87 (B2), Laurie_85 (B2), Ligma_81 (DR), LilMcDreamy_91 (B12), LittleMunchkin_80 (DR), Lolalove_87 (B4), Magpie_82 (B4), Mariokart_78 (DR), Mithril_85 (B4), Mudslide_86 (B4), NHagos_77 (DR), Nangang_93 (B5), Phantasmagoria_85 (B2), PrinceCharming_86 (B2), Prince_85 (B4), RawrgerThat_85 (B4), Rhinoforte_86 (B2), Rosebush_84 (B2), Shatter_81 (DR), Shenyu_93 (B5), Sisko_79 (DR), Skog_28 (DO), Sour_75 (DR), VioletZ_88 (B4), Waleliano_85 (B4), West99_86 (B2), Xincheng_79 (B4), Yago84_78 (DR), Zemanar_85 (B4),

Start 51:

- Found in 7 of 356 (2.0%) of genes in pham
- Manual Annotations of this start: 4 of 315
- Called 71.4% of time when present
- Phage (with cluster) where this start called: CaiB_81 (DR), MakoManhole_79 (DR), MossRose_80 (DR), Wooper_82 (DR), Yeshua_82 (DR),

Summary by clusters:

There are 8 clusters represented in this pham: DO, B4, B5, B6, B12, B1, B2, DR,

Info for manual annotations of cluster B1:

- Start number 27 was manually annotated 3 times for cluster B1.
- Start number 41 was manually annotated 239 times for cluster B1.

Info for manual annotations of cluster B12:

- Start number 49 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B2:

- Start number 38 was manually annotated 4 times for cluster B2.
- Start number 43 was manually annotated 18 times for cluster B2.
- Start number 49 was manually annotated 12 times for cluster B2.

Info for manual annotations of cluster B4:

- Start number 36 was manually annotated 1 time for cluster B4.
- Start number 49 was manually annotated 16 times for cluster B4.

Info for manual annotations of cluster B6:

- Start number 49 was manually annotated 1 time for cluster B6.

Info for manual annotations of cluster DO:

- Start number 49 was manually annotated 1 time for cluster DO.

Info for manual annotations of cluster DR:

- Start number 38 was manually annotated 2 times for cluster DR.
- Start number 49 was manually annotated 13 times for cluster DR.
- Start number 51 was manually annotated 4 times for cluster DR.

Gene Information:

Gene: 39HC_094 Start: 68290, Stop: 67925, Start Num: 34

Candidate Starts for 39HC_094:

(33, 68293), (34, 68290), (44, 68254), (Start: 49 @68218 has 44 MA's), (50, 68197), (57, 68149), (62, 68137), (70, 68080), (74, 68053), (83, 67996), (85, 67990), (88, 67966), (90, 67954),

Gene: 40BC_094 Start: 68254, Stop: 67925, Start Num: 44

Candidate Starts for 40BC_094:

(33, 68293), (34, 68290), (44, 68254), (Start: 49 @68218 has 44 MA's), (50, 68197), (57, 68149), (62, 68137), (70, 68080), (74, 68053), (83, 67996), (85, 67990), (88, 67966), (90, 67954),

Gene: ABU_99 Start: 68479, Stop: 68141, Start Num: 41

Candidate Starts for ABU_99:

(13, 68653), (Start: 41 @68479 has 239 MA's), (46, 68464), (Start: 49 @68431 has 44 MA's), (53, 68395), (62, 68335), (76, 68230), (78, 68224), (85, 68191), (87, 68179),

Gene: AbsoluteMadLad_99 Start: 68432, Stop: 68094, Start Num: 41

Candidate Starts for AbsoluteMadLad_99:

(13, 68606), (Start: 41 @68432 has 239 MA's), (46, 68417), (Start: 49 @68384 has 44 MA's), (53, 68348), (62, 68288), (76, 68183), (78, 68177), (85, 68144), (87, 68132),

Gene: Adriana_101 Start: 68751, Stop: 68413, Start Num: 41

Candidate Starts for Adriana_101:

(13, 68925), (Start: 41 @68751 has 239 MA's), (46, 68736), (Start: 49 @68703 has 44 MA's), (53, 68667), (62, 68607), (76, 68502), (78, 68496), (85, 68463), (87, 68451),

Gene: Aelin_100 Start: 68163, Stop: 67771, Start Num: 27

Candidate Starts for Aelin_100:

(23, 68196), (Start: 27 @68163 has 3 MA's), (Start: 41 @68106 has 239 MA's), (Start: 49 @68061 has 44 MA's), (53, 68025), (59, 67980), (62, 67968), (70, 67911), (78, 67857), (80, 67848), (87, 67812),

Gene: AksarBAT_81 Start: 59268, Stop: 59008, Start Num: 49

Candidate Starts for AksarBAT_81:

(39, 59316), (Start: 41 @59313 has 239 MA's), (Start: 49 @59268 has 44 MA's), (59, 59211), (62, 59199), (72, 59121),

Gene: Allegro_86 Start: 65189, Stop: 64932, Start Num: 49

Candidate Starts for Allegro_86:

(Start: 38 @65234 has 6 MA's), (Start: 43 @65225 has 18 MA's), (Start: 49 @65189 has 44 MA's), (62, 65120),

Gene: Altwerkus_98 Start: 67808, Stop: 67470, Start Num: 41

Candidate Starts for Altwerkus_98:

(13, 67982), (Start: 41 @67808 has 239 MA's), (46, 67793), (Start: 49 @67760 has 44 MA's), (53, 67724), (62, 67664), (76, 67559), (78, 67553), (85, 67520), (87, 67508),

Gene: AnClar_76 Start: 59906, Stop: 59643, Start Num: 49

Candidate Starts for AnClar_76:

(Start: 49 @59906 has 44 MA's), (82, 59702),

Gene: AnarQue_82 Start: 60514, Stop: 60182, Start Num: 38

Candidate Starts for AnarQue_82:

(Start: 38 @60514 has 6 MA's), (40, 60511), (48, 60475), (Start: 51 @60439 has 4 MA's), (55, 60415), (62, 60364), (79, 60253), (83, 60229),

Gene: Anderson_102 Start: 68355, Stop: 68017, Start Num: 41

Candidate Starts for Anderson_102:

(13, 68529), (Start: 41 @68355 has 239 MA's), (46, 68340), (Start: 49 @68307 has 44 MA's), (53, 68271), (62, 68211), (76, 68106), (78, 68100), (85, 68067), (87, 68055),

Gene: Andre_105 Start: 68746, Stop: 68408, Start Num: 41

Candidate Starts for Andre_105:

(13, 68920), (Start: 41 @68746 has 239 MA's), (46, 68731), (Start: 49 @68698 has 44 MA's), (53, 68662), (62, 68602), (76, 68497), (78, 68491), (85, 68458), (87, 68446),

Gene: Antonia_100 Start: 68034, Stop: 67642, Start Num: 27

Candidate Starts for Antonia_100:

(23, 68067), (Start: 27 @68034 has 3 MA's), (Start: 41 @67977 has 239 MA's), (Start: 49 @67932 has 44 MA's), (53, 67896), (59, 67851), (62, 67839), (70, 67782), (78, 67728), (80, 67719), (87, 67683),

Gene: Apex_87 Start: 66047, Stop: 65745, Start Num: 49

Candidate Starts for Apex_87:

(7, 66434), (9, 66308), (Start: 36 @66104 has 1 MA's), (Start: 49 @66047 has 44 MA's), (54, 66005), (59, 65972), (62, 65960), (67, 65930), (70, 65903), (73, 65879), (76, 65846), (78, 65840), (82, 65825), (83, 65813), (85, 65807), (86, 65798),

Gene: Arbiter_83 Start: 65266, Stop: 64973, Start Num: 43

Candidate Starts for Arbiter_83:

(Start: 38 @65275 has 6 MA's), (Start: 43 @65266 has 18 MA's), (Start: 49 @65230 has 44 MA's), (62, 65161),

Gene: Ares_86 Start: 65225, Stop: 64932, Start Num: 43

Candidate Starts for Ares_86:

(Start: 38 @65234 has 6 MA's), (Start: 43 @65225 has 18 MA's), (Start: 49 @65189 has 44 MA's), (62, 65120),

Gene: Ashraf_102 Start: 68483, Stop: 68148, Start Num: 41

Candidate Starts for Ashraf_102:

(22, 68576), (Start: 27 @68540 has 3 MA's), (Start: 41 @68483 has 239 MA's), (59, 68354), (62, 68342), (70, 68285), (78, 68231), (80, 68222), (87, 68186),

Gene: Axumite_81 Start: 59787, Stop: 59539, Start Num: 49

Candidate Starts for Axumite_81:

(25, 59919), (31, 59892), (45, 59823), (Start: 49 @59787 has 44 MA's), (59, 59736), (66, 59694), (77, 59619), (89, 59553),

Gene: Badfish_101 Start: 68659, Stop: 68321, Start Num: 41

Candidate Starts for Badfish_101:

(13, 68833), (Start: 41 @68659 has 239 MA's), (46, 68644), (Start: 49 @68611 has 44 MA's), (53, 68575), (62, 68515), (76, 68410), (78, 68404), (85, 68371), (87, 68359),

Gene: Bananafish_87 Start: 65171, Stop: 64869, Start Num: 38

Candidate Starts for Bananafish_87:

(Start: 38 @65171 has 6 MA's), (Start: 43 @65162 has 18 MA's), (Start: 49 @65126 has 44 MA's), (62, 65057),

Gene: Banjo_97 Start: 67925, Stop: 67587, Start Num: 41

Candidate Starts for Banjo_97:

(13, 68099), (Start: 41 @67925 has 239 MA's), (46, 67910), (Start: 49 @67877 has 44 MA's), (53, 67841), (62, 67781), (76, 67676), (78, 67670), (85, 67637), (87, 67625),

Gene: Basato_99 Start: 68145, Stop: 67807, Start Num: 41

Candidate Starts for Basato_99:

(Start: 41 @68145 has 239 MA's), (46, 68130), (Start: 49 @68097 has 44 MA's), (53, 68061), (62, 68001), (76, 67896), (78, 67890), (85, 67857), (87, 67845),

Gene: Beaglebox_97 Start: 68047, Stop: 67709, Start Num: 41

Candidate Starts for Beaglebox_97:

(13, 68221), (Start: 41 @68047 has 239 MA's), (46, 68032), (Start: 49 @67999 has 44 MA's), (53, 67963), (62, 67903), (76, 67798), (78, 67792), (85, 67759), (87, 67747),

Gene: BiggityBass_79 Start: 61390, Stop: 61115, Start Num: 49

Candidate Starts for BiggityBass_79:

(Start: 49 @61390 has 44 MA's),

Gene: Bishoperium_101 Start: 68494, Stop: 68156, Start Num: 41

Candidate Starts for Bishoperium_101:

(13, 68668), (Start: 41 @68494 has 239 MA's), (46, 68479), (Start: 49 @68446 has 44 MA's), (53, 68410), (62, 68350), (76, 68245), (78, 68239), (85, 68206), (87, 68194),

Gene: BlackStallion_100 Start: 68343, Stop: 68005, Start Num: 41

Candidate Starts for BlackStallion_100:

(13, 68517), (Start: 41 @68343 has 239 MA's), (46, 68328), (Start: 49 @68295 has 44 MA's), (53, 68259), (62, 68199), (76, 68094), (78, 68088), (85, 68055), (87, 68043),

Gene: Blocker23_86 Start: 65227, Stop: 64934, Start Num: 43

Candidate Starts for Blocker23_86:

(Start: 38 @65236 has 6 MA's), (Start: 43 @65227 has 18 MA's), (Start: 49 @65191 has 44 MA's), (62, 65122),

Gene: BlueHusk_101 Start: 67823, Stop: 67488, Start Num: 41

Candidate Starts for BlueHusk_101:

(Start: 27 @67880 has 3 MA's), (Start: 41 @67823 has 239 MA's), (59, 67694), (62, 67682), (70, 67625), (78, 67571), (80, 67562), (87, 67526),

Gene: Bluephacebaby_100 Start: 68528, Stop: 68190, Start Num: 41

Candidate Starts for Bluephacebaby_100:

(13, 68702), (Start: 41 @68528 has 239 MA's), (46, 68513), (Start: 49 @68480 has 44 MA's), (53, 68444), (62, 68384), (76, 68279), (78, 68273), (85, 68240), (87, 68228),

Gene: BobRoss2024_59 Start: 49011, Stop: 48754, Start Num: 49

Candidate Starts for BobRoss2024_59:

(39, 49053), (Start: 41 @49050 has 239 MA's), (42, 49047), (Start: 49 @49011 has 44 MA's), (59, 48960), (62, 48948), (75, 48852),

Gene: Boehler_98 Start: 67970, Stop: 67632, Start Num: 41

Candidate Starts for Boehler_98:

(13, 68144), (Start: 41 @67970 has 239 MA's), (46, 67955), (Start: 49 @67922 has 44 MA's), (53, 67886), (62, 67826), (76, 67721), (78, 67715), (85, 67682), (87, 67670),

Gene: Boyle_86 Start: 65238, Stop: 64981, Start Num: 49

Candidate Starts for Boyle_86:

(Start: 38 @65283 has 6 MA's), (Start: 43 @65274 has 18 MA's), (Start: 49 @65238 has 44 MA's), (62, 65169),

Gene: Brilliant_104 Start: 68501, Stop: 68166, Start Num: 41

Candidate Starts for Brilliant_104:

(21, 68594), (22, 68591), (23, 68588), (Start: 41 @68501 has 239 MA's), (59, 68372), (62, 68360), (70, 68303), (78, 68249), (80, 68240), (87, 68204),

Gene: BrownCNA_87 Start: 65995, Stop: 65693, Start Num: 49

Candidate Starts for BrownCNA_87:

(2, 66586), (7, 66382), (9, 66256), (20, 66169), (24, 66139), (26, 66124), (Start: 36 @66052 has 1 MA's), (Start: 49 @65995 has 44 MA's), (54, 65953), (59, 65920), (62, 65908), (67, 65878), (70, 65851), (73, 65827), (76, 65794), (78, 65788), (82, 65773), (83, 65761), (85, 65755), (86, 65746),

Gene: Brownie5_86 Start: 65274, Stop: 64981, Start Num: 43

Candidate Starts for Brownie5_86:

(Start: 38 @65283 has 6 MA's), (Start: 43 @65274 has 18 MA's), (Start: 49 @65238 has 44 MA's), (62, 65169),

Gene: Buckeye_99 Start: 68803, Stop: 68465, Start Num: 41

Candidate Starts for Buckeye_99:

(13, 68977), (Start: 41 @68803 has 239 MA's), (46, 68788), (Start: 49 @68755 has 44 MA's), (53, 68719), (62, 68659), (76, 68554), (78, 68548), (85, 68515), (87, 68503),

Gene: Burr_103 Start: 68349, Stop: 68011, Start Num: 41

Candidate Starts for Burr_103:

(13, 68523), (Start: 41 @68349 has 239 MA's), (46, 68334), (47, 68322), (Start: 49 @68301 has 44 MA's), (53, 68265), (62, 68205), (76, 68100), (78, 68094), (85, 68061), (87, 68049),

Gene: CaiB_81 Start: 60237, Stop: 59980, Start Num: 51

Candidate Starts for CaiB_81:

(Start: 38 @60312 has 6 MA's), (40, 60309), (48, 60273), (Start: 51 @60237 has 4 MA's), (55, 60213), (62, 60162), (79, 60051), (83, 60027),

Gene: Calamitous_87 Start: 65121, Stop: 64864, Start Num: 49

Candidate Starts for Calamitous_87:

(Start: 38 @65166 has 6 MA's), (Start: 43 @65157 has 18 MA's), (Start: 49 @65121 has 44 MA's), (62, 65052),

Gene: CamL_101 Start: 68279, Stop: 67941, Start Num: 41

Candidate Starts for CamL_101:

(13, 68453), (Start: 41 @68279 has 239 MA's), (46, 68264), (Start: 49 @68231 has 44 MA's), (53, 68195), (62, 68135), (76, 68030), (78, 68024), (85, 67991), (87, 67979),

Gene: CampRoach_101 Start: 68369, Stop: 68034, Start Num: 41

Candidate Starts for CampRoach_101:

(22, 68462), (Start: 27 @68426 has 3 MA's), (Start: 41 @68369 has 239 MA's), (59, 68240), (62, 68228), (70, 68171), (78, 68117), (80, 68108), (87, 68072),

Gene: Cannibal_101 Start: 68382, Stop: 68044, Start Num: 41

Candidate Starts for Cannibal_101:

(13, 68556), (Start: 41 @68382 has 239 MA's), (46, 68367), (Start: 49 @68334 has 44 MA's), (53, 68298), (62, 68238), (76, 68133), (78, 68127), (85, 68094), (87, 68082),

Gene: Carthage_101 Start: 67837, Stop: 67499, Start Num: 41

Candidate Starts for Carthage_101:

(28, 67882), (Start: 41 @67837 has 239 MA's), (46, 67822), (Start: 49 @67789 has 44 MA's), (53, 67753), (62, 67693), (76, 67588), (78, 67582), (85, 67549), (87, 67537),

Gene: Caspiboi_102 Start: 68207, Stop: 67872, Start Num: 41

Candidate Starts for Caspiboi_102:

(22, 68300), (Start: 27 @68264 has 3 MA's), (Start: 41 @68207 has 239 MA's), (59, 68078), (62, 68066), (70, 68009), (78, 67955), (80, 67946), (87, 67910),

Gene: Chaelin_101 Start: 68242, Stop: 67910, Start Num: 41

Candidate Starts for Chaelin_101:

(Start: 27 @68299 has 3 MA's), (Start: 41 @68242 has 239 MA's), (Start: 49 @68197 has 44 MA's), (53, 68161), (59, 68116), (62, 68104), (70, 68047), (78, 67993), (80, 67984), (87, 67948),

Gene: Chah_103 Start: 68079, Stop: 67741, Start Num: 41

Candidate Starts for Chah_103:

(13, 68253), (Start: 41 @68079 has 239 MA's), (46, 68064), (Start: 49 @68031 has 44 MA's), (53, 67995), (62, 67935), (76, 67830), (78, 67824), (85, 67791), (87, 67779),

Gene: Charles1_104 Start: 68657, Stop: 68319, Start Num: 41

Candidate Starts for Charles1_104:

(13, 68831), (Start: 41 @68657 has 239 MA's), (46, 68642), (Start: 49 @68609 has 44 MA's), (53, 68573), (62, 68513), (76, 68408), (78, 68402), (85, 68369), (87, 68357),

Gene: CharlottesWeb_78 Start: 58743, Stop: 58495, Start Num: 49

Candidate Starts for CharlottesWeb_78:

(15, 58956), (30, 58851), (35, 58815), (45, 58779), (Start: 49 @58743 has 44 MA's), (59, 58692), (76, 58578), (77, 58575), (89, 58509),

Gene: CheetO_97 Start: 68132, Stop: 67794, Start Num: 41

Candidate Starts for CheetO_97:

(13, 68306), (Start: 41 @68132 has 239 MA's), (46, 68117), (Start: 49 @68084 has 44 MA's), (53, 68048), (62, 67988), (76, 67883), (78, 67877), (85, 67844), (87, 67832),

Gene: Cher_101 Start: 68483, Stop: 68145, Start Num: 41

Candidate Starts for Cher_101:

(Start: 41 @68483 has 239 MA's), (46, 68468), (Start: 49 @68435 has 44 MA's), (53, 68399), (62, 68339), (76, 68234), (78, 68228), (85, 68195), (87, 68183),

Gene: Childish_101 Start: 68673, Stop: 68335, Start Num: 41

Candidate Starts for Childish_101:

(13, 68847), (Start: 41 @68673 has 239 MA's), (46, 68658), (Start: 49 @68625 has 44 MA's), (53, 68589), (62, 68529), (76, 68424), (78, 68418), (85, 68385), (87, 68373),

Gene: Chipette_98 Start: 67966, Stop: 67628, Start Num: 41

Candidate Starts for Chipette_98:

(13, 68140), (Start: 41 @67966 has 239 MA's), (46, 67951), (Start: 49 @67918 has 44 MA's), (53, 67882), (62, 67822), (76, 67717), (78, 67711), (85, 67678), (87, 67666),

Gene: Chorkpop_102 Start: 68135, Stop: 67797, Start Num: 41

Candidate Starts for Chorkpop_102:

(13, 68309), (Start: 41 @68135 has 239 MA's), (46, 68120), (Start: 49 @68087 has 44 MA's), (53, 68051), (62, 67991), (76, 67886), (78, 67880), (85, 67847), (87, 67835),

Gene: Chute_101 Start: 68665, Stop: 68333, Start Num: 41

Candidate Starts for Chute_101:

(Start: 27 @68722 has 3 MA's), (Start: 41 @68665 has 239 MA's), (Start: 49 @68620 has 44 MA's), (53, 68584), (59, 68539), (62, 68527), (70, 68470), (78, 68416), (80, 68407), (87, 68371),

Gene: CloverMinnie_80 Start: 59790, Stop: 59458, Start Num: 38

Candidate Starts for CloverMinnie_80:

(Start: 38 @59790 has 6 MA's), (40, 59787), (48, 59751), (Start: 51 @59715 has 4 MA's), (55, 59691), (62, 59640), (79, 59529), (83, 59505),

Gene: Cobra_101 Start: 68504, Stop: 68166, Start Num: 41

Candidate Starts for Cobra_101:

(13, 68678), (Start: 41 @68504 has 239 MA's), (46, 68489), (Start: 49 @68456 has 44 MA's), (53, 68420), (62, 68360), (76, 68255), (78, 68249), (85, 68216), (87, 68204),

Gene: Coffee_85 Start: 65231, Stop: 64974, Start Num: 49

Candidate Starts for Coffee_85:

(Start: 38 @65276 has 6 MA's), (Start: 43 @65267 has 18 MA's), (Start: 49 @65231 has 44 MA's), (62, 65162),

Gene: Colbert_99 Start: 67403, Stop: 67065, Start Num: 41

Candidate Starts for Colbert_99:

(13, 67577), (Start: 41 @67403 has 239 MA's), (46, 67388), (Start: 49 @67355 has 44 MA's), (53, 67319), (62, 67259), (76, 67154), (78, 67148), (85, 67115), (87, 67103),

Gene: Coldpizza_69 Start: 56370, Stop: 56140, Start Num: 49

Candidate Starts for Coldpizza_69:

(Start: 49 @56370 has 44 MA's), (61, 56298), (62, 56295),

Gene: Coletti_103 Start: 69021, Stop: 68689, Start Num: 41

Candidate Starts for Coletti_103:

(Start: 27 @69078 has 3 MA's), (Start: 41 @69021 has 239 MA's), (Start: 49 @68976 has 44 MA's), (53, 68940), (59, 68895), (62, 68883), (70, 68826), (78, 68772), (80, 68763), (87, 68727),

Gene: Cooper_87 Start: 65343, Stop: 65047, Start Num: 49

Candidate Starts for Cooper_87:

(37, 65397), (Start: 49 @65343 has 44 MA's), (59, 65268), (62, 65256), (67, 65226), (70, 65199), (76, 65145), (83, 65112),

Gene: Cornbread_102 Start: 68528, Stop: 68193, Start Num: 41

Candidate Starts for Cornbread_102:

(21, 68621), (22, 68618), (23, 68615), (Start: 41 @68528 has 239 MA's), (59, 68399), (62, 68387), (70, 68330), (78, 68276), (80, 68267), (87, 68231),

Gene: Cornobble_99 Start: 68126, Stop: 67791, Start Num: 41

Candidate Starts for Cornobble_99:

(23, 68216), (Start: 27 @68183 has 3 MA's), (Start: 41 @68126 has 239 MA's), (Start: 49 @68081 has 44 MA's), (53, 68045), (59, 68000), (62, 67988), (70, 67931), (78, 67877), (80, 67868), (87, 67832),

Gene: Cosmolli16_102 Start: 68607, Stop: 68269, Start Num: 41

Candidate Starts for Cosmolli16_102:

(13, 68781), (Start: 41 @68607 has 239 MA's), (46, 68592), (Start: 49 @68559 has 44 MA's), (53, 68523), (62, 68463), (76, 68358), (78, 68352), (85, 68319), (87, 68307),

Gene: Craff_102 Start: 68892, Stop: 68554, Start Num: 41

Candidate Starts for Craff_102:

(13, 69066), (Start: 41 @68892 has 239 MA's), (46, 68877), (Start: 49 @68844 has 44 MA's), (53, 68808), (62, 68748), (76, 68643), (78, 68637), (85, 68604), (87, 68592),

Gene: Crownjwl_98 Start: 68148, Stop: 67810, Start Num: 41

Candidate Starts for Crownjwl_98:

(Start: 41 @68148 has 239 MA's), (46, 68133), (Start: 49 @68100 has 44 MA's), (53, 68064), (62, 68004), (76, 67899), (78, 67893), (85, 67860), (87, 67848),

Gene: DaddyDaniels_104 Start: 68620, Stop: 68285, Start Num: 41

Candidate Starts for DaddyDaniels_104:

(21, 68713), (22, 68710), (23, 68707), (Start: 41 @68620 has 239 MA's), (59, 68491), (62, 68479), (70, 68422), (78, 68368), (80, 68359), (87, 68323),

Gene: Daffy_100 Start: 68120, Stop: 67782, Start Num: 41

Candidate Starts for Daffy_100:

(13, 68294), (Start: 41 @68120 has 239 MA's), (46, 68105), (Start: 49 @68072 has 44 MA's), (53, 68036), (62, 67976), (76, 67871), (78, 67865), (85, 67832), (87, 67820),

Gene: Daka_102 Start: 68077, Stop: 67742, Start Num: 41

Candidate Starts for Daka_102:

(Start: 27 @68134 has 3 MA's), (Start: 41 @68077 has 239 MA's), (59, 67948), (62, 67936), (70, 67879), (78, 67825), (80, 67816), (87, 67780),

Gene: Dati_98 Start: 68299, Stop: 67964, Start Num: 41

Candidate Starts for Dati_98:

(21, 68392), (22, 68389), (23, 68386), (Start: 41 @68299 has 239 MA's), (59, 68170), (62, 68158), (70, 68101), (78, 68047), (80, 68038), (87, 68002),

Gene: DelRivs_100 Start: 67928, Stop: 67593, Start Num: 41

Candidate Starts for DelRivs_100:

(22, 68045), (Start: 27 @68009 has 3 MA's), (Start: 41 @67928 has 239 MA's), (59, 67799), (62, 67787), (70, 67730), (78, 67676), (80, 67667), (87, 67631),

Gene: Dice_101 Start: 67966, Stop: 67628, Start Num: 41

Candidate Starts for Dice_101:

(13, 68140), (Start: 41 @67966 has 239 MA's), (46, 67951), (Start: 49 @67918 has 44 MA's), (53, 67882), (62, 67822), (76, 67717), (78, 67711), (85, 67678), (87, 67666),

Gene: DigitDog_94 Start: 68274, Stop: 67966, Start Num: 49

Candidate Starts for DigitDog_94:

(Start: 49 @68274 has 44 MA's), (52, 68241), (62, 68193), (68, 68151), (78, 68076), (83, 68049),

Gene: Dingo_97 Start: 67408, Stop: 67070, Start Num: 41

Candidate Starts for Dingo_97:

(Start: 41 @67408 has 239 MA's), (46, 67393), (Start: 49 @67360 has 44 MA's), (53, 67324), (62, 67264), (76, 67159), (78, 67153), (85, 67120), (87, 67108),

Gene: Dione_99 Start: 67686, Stop: 67348, Start Num: 41

Candidate Starts for Dione_99:

(13, 67860), (Start: 41 @67686 has 239 MA's), (46, 67671), (Start: 49 @67638 has 44 MA's), (53, 67602), (62, 67542), (76, 67437), (78, 67431), (85, 67398), (87, 67386),

Gene: DirtJuice_102 Start: 68795, Stop: 68457, Start Num: 41

Candidate Starts for DirtJuice_102:

(13, 68969), (Start: 41 @68795 has 239 MA's), (46, 68780), (Start: 49 @68747 has 44 MA's), (53, 68711), (62, 68651), (76, 68546), (78, 68540), (85, 68507), (87, 68495),

Gene: Doddsville_98 Start: 68120, Stop: 67785, Start Num: 41

Candidate Starts for Doddsville_98:

(21, 68213), (22, 68210), (23, 68207), (Start: 41 @68120 has 239 MA's), (59, 67991), (62, 67979), (70, 67922), (78, 67868), (80, 67859), (87, 67823),

Gene: DoesntMatter_98 Start: 67960, Stop: 67622, Start Num: 41

Candidate Starts for DoesntMatter_98:

(13, 68134), (Start: 41 @67960 has 239 MA's), (46, 67945), (Start: 49 @67912 has 44 MA's), (53, 67876), (62, 67816), (76, 67711), (78, 67705), (85, 67672), (87, 67660),

Gene: DonSanchon_96 Start: 67644, Stop: 67306, Start Num: 41

Candidate Starts for DonSanchon_96:

(13, 67818), (Start: 41 @67644 has 239 MA's), (46, 67629), (Start: 49 @67596 has 44 MA's), (53, 67560), (59, 67512), (62, 67500), (76, 67395), (78, 67389), (85, 67356), (87, 67344),

Gene: DuchessDung_98 Start: 67636, Stop: 67301, Start Num: 41

Candidate Starts for DuchessDung_98:

(22, 67729), (Start: 27 @67693 has 3 MA's), (Start: 41 @67636 has 239 MA's), (59, 67507), (62, 67495), (70, 67438), (78, 67384), (80, 67375), (87, 67339),

Gene: Duggie_101 Start: 68262, Stop: 67927, Start Num: 41

Candidate Starts for Duggie_101:

(22, 68379), (Start: 27 @68343 has 3 MA's), (Start: 41 @68262 has 239 MA's), (59, 68133), (62, 68121), (70, 68064), (78, 68010), (80, 68001), (87, 67965),

Gene: Durga_103 Start: 68743, Stop: 68408, Start Num: 41

Candidate Starts for Durga_103:

(21, 68836), (22, 68833), (23, 68830), (Start: 41 @68743 has 239 MA's), (59, 68614), (62, 68602), (70, 68545), (78, 68491), (80, 68482), (87, 68446),

Gene: Eaglehorse_87 Start: 65116, Stop: 64859, Start Num: 49

Candidate Starts for Eaglehorse_87:

(Start: 38 @65161 has 6 MA's), (Start: 43 @65152 has 18 MA's), (Start: 49 @65116 has 44 MA's), (62, 65047),

Gene: ElvisPhasley_106 Start: 68901, Stop: 68566, Start Num: 41

Candidate Starts for ElvisPhasley_106:

(22, 68994), (Start: 27 @68958 has 3 MA's), (Start: 41 @68901 has 239 MA's), (59, 68772), (62, 68760), (70, 68703), (78, 68649), (80, 68640), (87, 68604),

Gene: Emiris_103 Start: 68656, Stop: 68318, Start Num: 41

Candidate Starts for Emiris_103:

(13, 68830), (Start: 41 @68656 has 239 MA's), (46, 68641), (Start: 49 @68608 has 44 MA's), (53, 68572), (62, 68512), (76, 68407), (78, 68401), (85, 68368), (87, 68356),

Gene: EmpTee_100 Start: 68057, Stop: 67719, Start Num: 41

Candidate Starts for EmpTee_100:

(13, 68231), (Start: 41 @68057 has 239 MA's), (46, 68042), (Start: 49 @68009 has 44 MA's), (53, 67973), (62, 67913), (76, 67808), (78, 67802), (85, 67769), (87, 67757),

Gene: Etaye_100 Start: 68827, Stop: 68492, Start Num: 41

Candidate Starts for Etaye_100:

(21, 68920), (22, 68917), (23, 68914), (Start: 41 @68827 has 239 MA's), (59, 68698), (62, 68686), (70, 68629), (78, 68575), (80, 68566), (87, 68530),

Gene: Eugenia_103 Start: 68768, Stop: 68430, Start Num: 41

Candidate Starts for Eugenia_103:

(13, 68942), (Start: 41 @68768 has 239 MA's), (46, 68753), (Start: 49 @68720 has 44 MA's), (53, 68684), (62, 68624), (76, 68519), (78, 68513), (85, 68480), (87, 68468),

Gene: Evaa_72 Start: 54428, Stop: 54195, Start Num: 49

Candidate Starts for Evaa_72:

(Start: 49 @54428 has 44 MA's), (59, 54377), (62, 54365), (71, 54296),

Gene: Fanaw_81 Start: 65582, Stop: 65280, Start Num: 49

Candidate Starts for Fanaw_81:

(2, 66173), (7, 65969), (9, 65843), (20, 65756), (Start: 36 @65639 has 1 MA's), (Start: 49 @65582 has 44 MA's), (54, 65540), (59, 65507), (62, 65495), (67, 65465), (70, 65438), (73, 65414), (76, 65381), (78, 65375), (82, 65360), (83, 65348), (85, 65342), (86, 65333),

Gene: Fang_101 Start: 68198, Stop: 67860, Start Num: 41

Candidate Starts for Fang_101:

(13, 68372), (Start: 41 @68198 has 239 MA's), (46, 68183), (Start: 49 @68150 has 44 MA's), (53, 68114), (62, 68054), (76, 67949), (78, 67943), (85, 67910), (87, 67898),

Gene: Faze9_85 Start: 65253, Stop: 64996, Start Num: 49

Candidate Starts for Faze9_85:

(Start: 38 @65298 has 6 MA's), (Start: 43 @65289 has 18 MA's), (Start: 49 @65253 has 44 MA's), (62, 65184),

Gene: FluffyNinja_102 Start: 68345, Stop: 68007, Start Num: 41

Candidate Starts for FluffyNinja_102:

(13, 68519), (Start: 41 @68345 has 239 MA's), (46, 68330), (Start: 49 @68297 has 44 MA's), (53, 68261), (62, 68201), (76, 68096), (78, 68090), (85, 68057), (87, 68045),

Gene: ForDig_91 Start: 67502, Stop: 67209, Start Num: 49

Candidate Starts for ForDig_91:

(34, 67574), (Start: 41 @67544 has 239 MA's), (44, 67538), (Start: 49 @67502 has 44 MA's), (50, 67481), (57, 67433), (62, 67421), (70, 67364), (74, 67337), (77, 67304), (83, 67280), (85, 67274), (88, 67250), (90, 67238),

Gene: Fortunato_84 Start: 65374, Stop: 65072, Start Num: 49

Candidate Starts for Fortunato_84:

(3, 65821), (7, 65761), (9, 65635), (20, 65548), (Start: 36 @65431 has 1 MA's), (Start: 49 @65374 has 44 MA's), (54, 65332), (59, 65299), (62, 65287), (67, 65257), (70, 65230), (73, 65206), (76, 65173), (78, 65167), (82, 65152), (83, 65140), (85, 65134), (86, 65125),

Gene: Fozzie_97 Start: 68394, Stop: 68056, Start Num: 41

Candidate Starts for Fozzie_97:

(Start: 41 @68394 has 239 MA's), (46, 68379), (Start: 49 @68346 has 44 MA's), (53, 68310), (62, 68250), (76, 68145), (78, 68139), (85, 68106), (87, 68094),

Gene: Frankicide_98 Start: 67894, Stop: 67556, Start Num: 41

Candidate Starts for Frankicide_98:

(13, 68068), (Start: 41 @67894 has 239 MA's), (46, 67879), (Start: 49 @67846 has 44 MA's), (53, 67810), (62, 67750), (76, 67645), (78, 67639), (85, 67606), (87, 67594),

Gene: Frederick_87 Start: 65861, Stop: 65559, Start Num: 49

Candidate Starts for Frederick_87:

(7, 66248), (9, 66122), (Start: 36 @65918 has 1 MA's), (Start: 49 @65861 has 44 MA's), (54, 65819), (59, 65786), (62, 65774), (67, 65744), (73, 65693), (76, 65660), (78, 65654), (82, 65639), (83, 65627), (85, 65621), (86, 65612),

Gene: FrenchFry_87 Start: 65277, Stop: 64984, Start Num: 43

Candidate Starts for FrenchFry_87:

(Start: 38 @65286 has 6 MA's), (Start: 43 @65277 has 18 MA's), (Start: 49 @65241 has 44 MA's), (62, 65172),

Gene: Fresco_81 Start: 59793, Stop: 59545, Start Num: 49

Candidate Starts for Fresco_81:

(25, 59925), (31, 59898), (45, 59829), (Start: 49 @59793 has 44 MA's), (59, 59742), (66, 59700), (77, 59625), (89, 59559),

Gene: Freya_97 Start: 67664, Stop: 67326, Start Num: 41

Candidate Starts for Freya_97:

(13, 67838), (Start: 41 @67664 has 239 MA's), (46, 67649), (Start: 49 @67616 has 44 MA's), (53, 67580), (62, 67520), (76, 67415), (78, 67409), (85, 67376), (87, 67364),

Gene: FriarPreacher_98 Start: 68043, Stop: 67705, Start Num: 41

Candidate Starts for FriarPreacher_98:

(13, 68217), (Start: 41 @68043 has 239 MA's), (46, 68028), (Start: 49 @67995 has 44 MA's), (53, 67959), (62, 67899), (76, 67794), (78, 67788), (85, 67755), (87, 67743),

Gene: Fringe_105 Start: 68820, Stop: 68482, Start Num: 41

Candidate Starts for Fringe_105:

(13, 68994), (Start: 41 @68820 has 239 MA's), (46, 68805), (Start: 49 @68772 has 44 MA's), (53, 68736), (62, 68676), (76, 68571), (78, 68565), (85, 68532), (87, 68520),

Gene: FugateOSU_101 Start: 69105, Stop: 68767, Start Num: 41

Candidate Starts for FugateOSU_101:

(13, 69279), (Start: 41 @69105 has 239 MA's), (46, 69090), (Start: 49 @69057 has 44 MA's), (53, 69021), (62, 68961), (76, 68856), (78, 68850), (85, 68817), (87, 68805),

Gene: Gareth_101 Start: 68494, Stop: 68156, Start Num: 41

Candidate Starts for Gareth_101:

(Start: 41 @68494 has 239 MA's), (46, 68479), (Start: 49 @68446 has 44 MA's), (53, 68410), (62, 68350), (76, 68245), (78, 68239), (85, 68206), (87, 68194),

Gene: GeneCoco_100 Start: 68424, Stop: 68089, Start Num: 41

Candidate Starts for GeneCoco_100:

(21, 68517), (22, 68514), (23, 68511), (Start: 41 @68424 has 239 MA's), (59, 68295), (62, 68283), (70, 68226), (78, 68172), (80, 68163), (87, 68127),

Gene: Giraffe_102 Start: 68498, Stop: 68160, Start Num: 41

Candidate Starts for Giraffe_102:

(13, 68672), (Start: 41 @68498 has 239 MA's), (46, 68483), (Start: 49 @68450 has 44 MA's), (53, 68414), (62, 68354), (76, 68249), (78, 68243), (85, 68210), (87, 68198),

Gene: Glass_88 Start: 65283, Stop: 64990, Start Num: 43

Candidate Starts for Glass_88:

(Start: 38 @65292 has 6 MA's), (Start: 43 @65283 has 18 MA's), (Start: 49 @65247 has 44 MA's), (62, 65178),

Gene: Godines_86 Start: 65188, Stop: 64895, Start Num: 43

Candidate Starts for Godines_86:

(Start: 38 @65197 has 6 MA's), (Start: 43 @65188 has 18 MA's), (Start: 49 @65152 has 44 MA's), (62, 65083),

Gene: Gophee_100 Start: 68485, Stop: 68147, Start Num: 41

Candidate Starts for Gophee_100:

(13, 68659), (Start: 41 @68485 has 239 MA's), (46, 68470), (Start: 49 @68437 has 44 MA's), (53, 68401), (62, 68341), (76, 68236), (78, 68230), (85, 68197), (87, 68185),

Gene: Grand2040_98 Start: 68220, Stop: 67882, Start Num: 41

Candidate Starts for Grand2040_98:

(13, 68394), (Start: 41 @68220 has 239 MA's), (46, 68205), (Start: 49 @68172 has 44 MA's), (53, 68136), (62, 68076), (76, 67971), (78, 67965), (85, 67932), (87, 67920),

Gene: Gwennie1_98 Start: 68303, Stop: 67968, Start Num: 41

Candidate Starts for Gwennie1_98:

(21, 68396), (22, 68393), (23, 68390), (Start: 41 @68303 has 239 MA's), (59, 68174), (62, 68162), (70, 68105), (78, 68051), (80, 68042), (87, 68006),

Gene: Gwilliam_101 Start: 69023, Stop: 68688, Start Num: 41

Candidate Starts for Gwilliam_101:

(22, 69140), (Start: 27 @69104 has 3 MA's), (Start: 41 @69023 has 239 MA's), (59, 68894), (62, 68882), (70, 68825), (78, 68771), (80, 68762), (87, 68726),

Gene: Gyarad_0099 Start: 67633, Stop: 67295, Start Num: 41

Candidate Starts for Gyarad_0099:

(13, 67807), (Start: 41 @67633 has 239 MA's), (46, 67618), (Start: 49 @67585 has 44 MA's), (53, 67549), (62, 67489), (76, 67384), (78, 67378), (85, 67345), (87, 67333),

Gene: Haimas_98 Start: 67925, Stop: 67587, Start Num: 41

Candidate Starts for Haimas_98:

(13, 68099), (Start: 41 @67925 has 239 MA's), (46, 67910), (Start: 49 @67877 has 44 MA's), (53, 67841), (62, 67781), (76, 67676), (78, 67670), (85, 67637), (87, 67625),

Gene: Haleema_100 Start: 68044, Stop: 67706, Start Num: 41

Candidate Starts for Haleema_100:

(13, 68218), (Start: 41 @68044 has 239 MA's), (46, 68029), (Start: 49 @67996 has 44 MA's), (53, 67960), (62, 67900), (76, 67795), (78, 67789), (85, 67756), (87, 67744),

Gene: Hamish_98 Start: 68213, Stop: 67875, Start Num: 41

Candidate Starts for Hamish_98:

(13, 68387), (Start: 41 @68213 has 239 MA's), (46, 68198), (Start: 49 @68165 has 44 MA's), (53, 68129), (62, 68069), (76, 67964), (78, 67958), (85, 67925), (87, 67913),

Gene: Hangman_86 Start: 66073, Stop: 65771, Start Num: 49

Candidate Starts for Hangman_86:

(7, 66460), (9, 66334), (Start: 36 @66130 has 1 MA's), (Start: 49 @66073 has 44 MA's), (54, 66031), (59, 65998), (62, 65986), (67, 65956), (70, 65929), (73, 65905), (76, 65872), (78, 65866), (82, 65851), (83, 65839), (85, 65833), (86, 65824),

Gene: Hartsy_99 Start: 68156, Stop: 67821, Start Num: 41

Candidate Starts for Hartsy_99:

(22, 68249), (Start: 27 @68213 has 3 MA's), (Start: 41 @68156 has 239 MA's), (59, 68027), (62, 68015), (70, 67958), (78, 67904), (80, 67895), (87, 67859),

Gene: Harvey_98 Start: 67821, Stop: 67483, Start Num: 41

Candidate Starts for Harvey_98:

(13, 67995), (Start: 41 @67821 has 239 MA's), (46, 67806), (Start: 49 @67773 has 44 MA's), (53, 67737), (62, 67677), (76, 67572), (78, 67566), (85, 67533), (87, 67521),

Gene: Hedgerow_86 Start: 65240, Stop: 64947, Start Num: 43

Candidate Starts for Hedgerow_86:

(Start: 38 @65249 has 6 MA's), (Start: 43 @65240 has 18 MA's), (Start: 49 @65204 has 44 MA's), (62, 65135),

Gene: Held_99 Start: 67942, Stop: 67604, Start Num: 41

Candidate Starts for Held_99:

(13, 68116), (Start: 41 @67942 has 239 MA's), (46, 67927), (Start: 49 @67894 has 44 MA's), (53, 67858), (62, 67798), (76, 67693), (78, 67687), (85, 67654), (87, 67642),

Gene: HenryJackson_101 Start: 68662, Stop: 68324, Start Num: 41

Candidate Starts for HenryJackson_101:

(13, 68836), (Start: 41 @68662 has 239 MA's), (46, 68647), (Start: 49 @68614 has 44 MA's), (53, 68578), (62, 68518), (76, 68413), (78, 68407), (85, 68374), (87, 68362),

Gene: Hertubise_100 Start: 68304, Stop: 67966, Start Num: 41

Candidate Starts for Hertubise_100:

(13, 68478), (Start: 41 @68304 has 239 MA's), (46, 68289), (Start: 49 @68256 has 44 MA's), (53, 68220), (62, 68160), (76, 68055), (78, 68049), (85, 68016), (87, 68004),

Gene: Hetaeria_100 Start: 68034, Stop: 67696, Start Num: 41

Candidate Starts for Hetaeria_100:

(13, 68208), (Start: 41 @68034 has 239 MA's), (46, 68019), (Start: 49 @67986 has 44 MA's), (53, 67950), (62, 67890), (76, 67785), (78, 67779), (85, 67746), (87, 67734),

Gene: HighStump_103 Start: 68450, Stop: 68112, Start Num: 41

Candidate Starts for HighStump_103:

(13, 68624), (Start: 41 @68450 has 239 MA's), (46, 68435), (Start: 49 @68402 has 44 MA's), (53, 68366), (62, 68306), (76, 68201), (78, 68195), (85, 68162), (87, 68150),

Gene: Hocus_100 Start: 67960, Stop: 67625, Start Num: 41

Candidate Starts for Hocus_100:

(21, 68053), (22, 68050), (23, 68047), (Start: 41 @67960 has 239 MA's), (59, 67831), (62, 67819), (70, 67762), (78, 67708), (80, 67699), (87, 67663),

Gene: Holeinone_86 Start: 65129, Stop: 64836, Start Num: 43

Candidate Starts for Holeinone_86:

(Start: 38 @65138 has 6 MA's), (Start: 43 @65129 has 18 MA's), (Start: 49 @65093 has 44 MA's), (62, 65024),

Gene: Horchata_95 Start: 67795, Stop: 67460, Start Num: 41

Candidate Starts for Horchata_95:

(Start: 27 @67852 has 3 MA's), (Start: 41 @67795 has 239 MA's), (59, 67666), (62, 67654), (70, 67597), (78, 67543), (80, 67534), (87, 67498),

Gene: Hosp_089 Start: 65595, Stop: 65230, Start Num: 34

Candidate Starts for Hosp_089:

(33, 65598), (34, 65595), (44, 65559), (Start: 49 @65523 has 44 MA's), (50, 65502), (57, 65454), (62, 65442), (70, 65385), (74, 65358), (83, 65301), (85, 65295), (88, 65271), (90, 65259),

Gene: Hydro_86 Start: 65948, Stop: 65646, Start Num: 49

Candidate Starts for Hydro_86:

(8, 66236), (Start: 36 @66005 has 1 MA's), (Start: 49 @65948 has 44 MA's), (54, 65906), (59, 65873), (62, 65861), (67, 65831), (70, 65804), (73, 65780), (76, 65747), (78, 65741), (82, 65726), (83, 65714), (85, 65708), (86, 65699),

Gene: ImtiyazSitla_102 Start: 68483, Stop: 68148, Start Num: 41

Candidate Starts for ImtiyazSitla_102:

(22, 68576), (Start: 27 @68540 has 3 MA's), (Start: 41 @68483 has 239 MA's), (59, 68354), (62, 68342), (70, 68285), (78, 68231), (80, 68222), (87, 68186),

Gene: Inchworm_102 Start: 68330, Stop: 67995, Start Num: 41

Candidate Starts for Inchworm_102:

(22, 68423), (Start: 27 @68387 has 3 MA's), (Start: 41 @68330 has 239 MA's), (59, 68201), (62, 68189), (70, 68132), (78, 68078), (80, 68069), (87, 68033),

Gene: Inverness_98 Start: 67893, Stop: 67555, Start Num: 41

Candidate Starts for Inverness_98:

(13, 68067), (Start: 41 @67893 has 239 MA's), (46, 67878), (Start: 49 @67845 has 44 MA's), (53, 67809), (62, 67749), (76, 67644), (78, 67638), (85, 67605), (87, 67593),

Gene: Iridessa_103 Start: 68055, Stop: 67720, Start Num: 41

Candidate Starts for Iridessa_103:

(21, 68148), (22, 68145), (23, 68142), (Start: 41 @68055 has 239 MA's), (59, 67926), (62, 67914), (70, 67857), (78, 67803), (80, 67794), (87, 67758),

Gene: Iridoclysis_100 Start: 68226, Stop: 67888, Start Num: 41

Candidate Starts for Iridoclysis_100:

(13, 68400), (Start: 41 @68226 has 239 MA's), (46, 68211), (Start: 49 @68178 has 44 MA's), (53, 68142), (62, 68082), (76, 67977), (78, 67971), (85, 67938), (87, 67926),

Gene: IsaacEli_103 Start: 68467, Stop: 68129, Start Num: 41

Candidate Starts for IsaacEli_103:

(13, 68641), (Start: 41 @68467 has 239 MA's), (46, 68452), (Start: 49 @68419 has 44 MA's), (53, 68383), (62, 68323), (76, 68218), (78, 68212), (85, 68179), (87, 68167),

Gene: ItsyBitsy1_83 Start: 65356, Stop: 65063, Start Num: 43

Candidate Starts for ItsyBitsy1_83:

(Start: 38 @65365 has 6 MA's), (Start: 43 @65356 has 18 MA's), (Start: 49 @65320 has 44 MA's), (62, 65251),

Gene: JDog_100 Start: 68490, Stop: 68155, Start Num: 41

Candidate Starts for JDog_100:

(21, 68583), (22, 68580), (23, 68577), (Start: 41 @68490 has 239 MA's), (59, 68361), (62, 68349), (70, 68292), (78, 68238), (80, 68229), (87, 68193),

Gene: JacAttac_101 Start: 67940, Stop: 67602, Start Num: 41

Candidate Starts for JacAttac_101:

(13, 68114), (Start: 41 @67940 has 239 MA's), (46, 67925), (Start: 49 @67892 has 44 MA's), (53, 67856), (62, 67796), (76, 67691), (78, 67685), (85, 67652), (87, 67640),

Gene: JaguarMi_80 Start: 65926, Stop: 65639, Start Num: 49

Candidate Starts for JaguarMi_80:

(9, 66187), (10, 66178), (Start: 36 @65983 has 1 MA's), (Start: 49 @65926 has 44 MA's), (54, 65884), (59, 65851), (62, 65839), (67, 65824), (70, 65797), (76, 65740), (78, 65734), (82, 65719), (83, 65707), (85, 65701), (86, 65692),

Gene: JakeO_102 Start: 68218, Stop: 67883, Start Num: 41

Candidate Starts for JakeO_102:

(22, 68308), (23, 68305), (Start: 41 @68218 has 239 MA's), (59, 68089), (62, 68077), (70, 68020), (78, 67966), (80, 67957), (87, 67921),

Gene: JangoPhett_99 Start: 68302, Stop: 67964, Start Num: 41

Candidate Starts for JangoPhett_99:

(13, 68476), (Start: 41 @68302 has 239 MA's), (46, 68287), (Start: 49 @68254 has 44 MA's), (53, 68218), (62, 68158), (76, 68053), (78, 68047), (85, 68014), (87, 68002),

Gene: Jesabah_101 Start: 69065, Stop: 68727, Start Num: 41

Candidate Starts for Jesabah_101:

(13, 69239), (Start: 41 @69065 has 239 MA's), (46, 69050), (Start: 49 @69017 has 44 MA's), (53, 68981), (62, 68921), (76, 68816), (78, 68810), (85, 68777), (87, 68765),

Gene: Jillium_101 Start: 68379, Stop: 68041, Start Num: 41

Candidate Starts for Jillium_101:

(13, 68553), (Start: 41 @68379 has 239 MA's), (46, 68364), (Start: 49 @68331 has 44 MA's), (53, 68295), (62, 68235), (76, 68130), (78, 68124), (85, 68091), (87, 68079),

Gene: Jiminy_101 Start: 68154, Stop: 67819, Start Num: 41

Candidate Starts for Jiminy_101:

(22, 68271), (Start: 27 @68235 has 3 MA's), (Start: 41 @68154 has 239 MA's), (59, 68025), (62, 68013), (70, 67956), (78, 67902), (80, 67893), (87, 67857),

Gene: Jiraiya_102 Start: 68238, Stop: 67903, Start Num: 41

Candidate Starts for Jiraiya_102:

(22, 68355), (Start: 27 @68319 has 3 MA's), (Start: 41 @68238 has 239 MA's), (59, 68109), (62, 68097), (70, 68040), (78, 67986), (80, 67977), (87, 67941),

Gene: Jolie1_091 Start: 67627, Stop: 67298, Start Num: 44

Candidate Starts for Jolie1_091:

(17, 67786), (18, 67780), (33, 67666), (34, 67663), (44, 67627), (Start: 49 @67591 has 44 MA's), (50, 67570), (57, 67522), (62, 67510), (70, 67453), (74, 67426), (77, 67393), (83, 67369), (85, 67363), (88, 67339), (90, 67327),

Gene: KLucky39_98 Start: 67765, Stop: 67427, Start Num: 41

Candidate Starts for KLucky39_98:

(Start: 41 @67765 has 239 MA's), (46, 67750), (Start: 49 @67717 has 44 MA's), (53, 67681), (62, 67621), (76, 67516), (78, 67510), (85, 67477), (87, 67465),

Gene: Kahve_101 Start: 68660, Stop: 68322, Start Num: 41

Candidate Starts for Kahve_101:

(13, 68834), (Start: 41 @68660 has 239 MA's), (46, 68645), (Start: 49 @68612 has 44 MA's), (53, 68576), (62, 68516), (76, 68411), (78, 68405), (85, 68372), (87, 68360),

Gene: Kailash_99 Start: 68354, Stop: 68019, Start Num: 41

Candidate Starts for Kailash_99:

(22, 68447), (Start: 27 @68411 has 3 MA's), (Start: 41 @68354 has 239 MA's), (59, 68225), (62, 68213), (70, 68156), (78, 68102), (80, 68093), (87, 68057),

Gene: Kaleb_86 Start: 65250, Stop: 64993, Start Num: 49

Candidate Starts for Kaleb_86:

(Start: 38 @65295 has 6 MA's), (Start: 43 @65286 has 18 MA's), (Start: 49 @65250 has 44 MA's), (62, 65181),

Gene: Katniss_103 Start: 68076, Stop: 67738, Start Num: 41

Candidate Starts for Katniss_103:

(13, 68250), (Start: 41 @68076 has 239 MA's), (46, 68061), (Start: 49 @68028 has 44 MA's), (53, 67992), (62, 67932), (76, 67827), (78, 67821), (85, 67788), (87, 67776),

Gene: KayaCho_89 Start: 67455, Stop: 67165, Start Num: 49

Candidate Starts for KayaCho_89:

(32, 67539), (33, 67536), (34, 67533), (Start: 41 @67503 has 239 MA's), (44, 67497), (Start: 49 @67455 has 44 MA's), (56, 67392), (58, 67383), (62, 67371), (64, 67368), (69, 67323), (76, 67263),

(78, 67257), (83, 67230), (86, 67215),

Gene: Keitherie_104 Start: 68709, Stop: 68377, Start Num: 41

Candidate Starts for Keitherie_104:

(Start: 27 @68766 has 3 MA's), (Start: 41 @68709 has 239 MA's), (Start: 49 @68664 has 44 MA's), (53, 68628), (59, 68583), (62, 68571), (70, 68514), (78, 68460), (80, 68451), (87, 68415),

Gene: Khan1_101 Start: 68433, Stop: 68098, Start Num: 41

Candidate Starts for Khan1_101:

(21, 68526), (22, 68523), (23, 68520), (Start: 41 @68433 has 239 MA's), (59, 68304), (62, 68292), (70, 68235), (78, 68181), (80, 68172), (87, 68136),

Gene: Kheth_86 Start: 65192, Stop: 64899, Start Num: 43

Candidate Starts for Kheth_86:

(Start: 38 @65201 has 6 MA's), (Start: 43 @65192 has 18 MA's), (Start: 49 @65156 has 44 MA's), (62, 65087),

Gene: Kikipoo_103 Start: 68467, Stop: 68129, Start Num: 41

Candidate Starts for Kikipoo_103:

(13, 68641), (Start: 41 @68467 has 239 MA's), (46, 68452), (Start: 49 @68419 has 44 MA's), (53, 68383), (62, 68323), (76, 68218), (78, 68212), (85, 68179), (87, 68167),

Gene: Kimbrough_102 Start: 68539, Stop: 68201, Start Num: 41

Candidate Starts for Kimbrough_102:

(13, 68713), (Start: 41 @68539 has 239 MA's), (46, 68524), (Start: 49 @68491 has 44 MA's), (53, 68455), (62, 68395), (76, 68290), (78, 68284), (85, 68251), (87, 68239),

Gene: KingTut_91 Start: 64456, Stop: 64118, Start Num: 41

Candidate Starts for KingTut_91:

(13, 64630), (Start: 41 @64456 has 239 MA's), (46, 64441), (Start: 49 @64408 has 44 MA's), (53, 64372), (62, 64312), (76, 64207), (78, 64201), (85, 64168), (87, 64156),

Gene: KlimbOn_100 Start: 67973, Stop: 67638, Start Num: 41

Candidate Starts for KlimbOn_100:

(22, 68090), (Start: 27 @68054 has 3 MA's), (Start: 41 @67973 has 239 MA's), (59, 67844), (62, 67832), (70, 67775), (78, 67721), (80, 67712), (87, 67676),

Gene: Kloppinator_101 Start: 68109, Stop: 67771, Start Num: 41

Candidate Starts for Kloppinator_101:

(13, 68283), (Start: 41 @68109 has 239 MA's), (46, 68094), (Start: 49 @68061 has 44 MA's), (53, 68025), (62, 67965), (76, 67860), (78, 67854), (85, 67821), (87, 67809),

Gene: Kolhan_87 Start: 65143, Stop: 64886, Start Num: 49

Candidate Starts for Kolhan_87:

(Start: 38 @65188 has 6 MA's), (Start: 43 @65179 has 18 MA's), (Start: 49 @65143 has 44 MA's), (62, 65074),

Gene: Kwadwo_100 Start: 67963, Stop: 67625, Start Num: 41

Candidate Starts for Kwadwo_100:

(13, 68137), (Start: 41 @67963 has 239 MA's), (46, 67948), (Start: 49 @67915 has 44 MA's), (53, 67879), (62, 67819), (76, 67714), (78, 67708), (85, 67675), (87, 67663),

Gene: Kwksand96_102 Start: 68223, Stop: 67888, Start Num: 41

Candidate Starts for Kwksand96_102:

(22, 68316), (Start: 27 @68280 has 3 MA's), (Start: 41 @68223 has 239 MA's), (59, 68094), (62, 68082), (70, 68025), (78, 67971), (80, 67962), (87, 67926),

Gene: Lars_87 Start: 65218, Stop: 64961, Start Num: 49

Candidate Starts for Lars_87:

(Start: 38 @65263 has 6 MA's), (Start: 43 @65254 has 18 MA's), (Start: 49 @65218 has 44 MA's), (62, 65149),

Gene: LasagnaCat_102 Start: 68339, Stop: 68004, Start Num: 41

Candidate Starts for LasagnaCat_102:

(22, 68432), (Start: 27 @68396 has 3 MA's), (Start: 41 @68339 has 239 MA's), (59, 68210), (62, 68198), (70, 68141), (78, 68087), (80, 68078), (87, 68042),

Gene: Lasso_100 Start: 68205, Stop: 67867, Start Num: 41

Candidate Starts for Lasso_100:

(13, 68379), (Start: 41 @68205 has 239 MA's), (46, 68190), (Start: 49 @68157 has 44 MA's), (53, 68121), (62, 68061), (76, 67956), (78, 67950), (85, 67917), (87, 67905),

Gene: Laurie_85 Start: 64565, Stop: 64305, Start Num: 49

Candidate Starts for Laurie_85:

(Start: 38 @64610 has 6 MA's), (Start: 43 @64601 has 18 MA's), (Start: 49 @64565 has 44 MA's), (56, 64523), (62, 64493), (77, 64382),

Gene: LeeLot_99 Start: 68550, Stop: 68212, Start Num: 41

Candidate Starts for LeeLot_99:

(13, 68724), (Start: 41 @68550 has 239 MA's), (46, 68535), (Start: 49 @68502 has 44 MA's), (53, 68466), (62, 68406), (76, 68301), (78, 68295), (85, 68262), (87, 68250),

Gene: Lego3393_99 Start: 68666, Stop: 68328, Start Num: 41

Candidate Starts for Lego3393_99:

(13, 68840), (Start: 41 @68666 has 239 MA's), (46, 68651), (Start: 49 @68618 has 44 MA's), (53, 68582), (62, 68522), (76, 68417), (78, 68411), (85, 68378), (87, 68366),

Gene: Legolas_102 Start: 68293, Stop: 67955, Start Num: 41

Candidate Starts for Legolas_102:

(13, 68467), (Start: 41 @68293 has 239 MA's), (46, 68278), (Start: 49 @68245 has 44 MA's), (53, 68209), (62, 68149), (76, 68044), (78, 68038), (85, 68005), (87, 67993),

Gene: LeiMonet_103 Start: 68420, Stop: 68085, Start Num: 41

Candidate Starts for LeiMonet_103:

(21, 68513), (22, 68510), (23, 68507), (Start: 41 @68420 has 239 MA's), (59, 68291), (62, 68279), (70, 68222), (78, 68168), (80, 68159), (87, 68123),

Gene: LemonSlice_101 Start: 67952, Stop: 67614, Start Num: 41

Candidate Starts for LemonSlice_101:

(13, 68126), (Start: 41 @67952 has 239 MA's), (46, 67937), (Start: 49 @67904 has 44 MA's), (53, 67868), (62, 67808), (76, 67703), (78, 67697), (85, 67664), (87, 67652),

Gene: Lephleur_86 Start: 65111, Stop: 64818, Start Num: 43

Candidate Starts for Lephleur_86:

(Start: 38 @65120 has 6 MA's), (Start: 43 @65111 has 18 MA's), (Start: 49 @65075 has 44 MA's), (62, 65006),

Gene: Ligma_81 Start: 59787, Stop: 59539, Start Num: 49

Candidate Starts for Ligma_81:

(25, 59919), (31, 59892), (45, 59823), (Start: 49 @59787 has 44 MA's), (59, 59736), (66, 59694), (77, 59619), (89, 59553),

Gene: LilMcDreamy_91 Start: 68544, Stop: 68251, Start Num: 49

Candidate Starts for LilMcDreamy_91:

(Start: 49 @68544 has 44 MA's), (50, 68523), (57, 68475), (62, 68463), (84, 68319),

Gene: LilSmirk_86 Start: 65158, Stop: 64856, Start Num: 38

Candidate Starts for LilSmirk_86:

(Start: 38 @65158 has 6 MA's), (Start: 43 @65149 has 18 MA's), (Start: 49 @65113 has 44 MA's), (62, 65044),

Gene: LittleMunchkin_80 Start: 61488, Stop: 61228, Start Num: 49

Candidate Starts for LittleMunchkin_80:

(Start: 49 @61488 has 44 MA's), (65, 61410), (82, 61287), (89, 61239),

Gene: LizLemon_86 Start: 65282, Stop: 64989, Start Num: 43

Candidate Starts for LizLemon_86:

(Start: 38 @65291 has 6 MA's), (Start: 43 @65282 has 18 MA's), (Start: 49 @65246 has 44 MA's), (62, 65177),

Gene: Lolalove_87 Start: 65892, Stop: 65590, Start Num: 49

Candidate Starts for Lolalove_87:

(2, 66483), (7, 66279), (9, 66153), (20, 66066), (Start: 36 @65949 has 1 MA's), (Start: 49 @65892 has 44 MA's), (54, 65850), (59, 65817), (62, 65805), (67, 65775), (70, 65748), (73, 65724), (76, 65691), (78, 65685), (82, 65670), (83, 65658), (85, 65652), (86, 65643),

Gene: Longacauda_101 Start: 68181, Stop: 67846, Start Num: 41

Candidate Starts for Longacauda_101:

(22, 68298), (Start: 27 @68262 has 3 MA's), (Start: 41 @68181 has 239 MA's), (59, 68052), (62, 68040), (70, 67983), (78, 67929), (80, 67920), (87, 67884),

Gene: LostAndPhound_100 Start: 68494, Stop: 68156, Start Num: 41

Candidate Starts for LostAndPhound_100:

(13, 68668), (Start: 41 @68494 has 239 MA's), (46, 68479), (Start: 49 @68446 has 44 MA's), (53, 68410), (62, 68350), (76, 68245), (78, 68239), (85, 68206), (87, 68194),

Gene: LuckyMarjie_98 Start: 67704, Stop: 67366, Start Num: 41

Candidate Starts for LuckyMarjie_98:

(13, 67878), (Start: 41 @67704 has 239 MA's), (46, 67689), (Start: 49 @67656 has 44 MA's), (53, 67620), (62, 67560), (76, 67455), (78, 67449), (85, 67416), (87, 67404),

Gene: Lulumae_96 Start: 67685, Stop: 67347, Start Num: 41

Candidate Starts for Lulumae_96:

(13, 67859), (Start: 41 @67685 has 239 MA's), (46, 67670), (Start: 49 @67637 has 44 MA's), (53, 67601), (62, 67541), (76, 67436), (78, 67430), (85, 67397), (87, 67385),

Gene: Lulwa_98 Start: 67318, Stop: 66980, Start Num: 41

Candidate Starts for Lulwa_98:

(13, 67492), (Start: 41 @67318 has 239 MA's), (46, 67303), (Start: 49 @67270 has 44 MA's), (53, 67234), (62, 67174), (76, 67069), (78, 67063), (85, 67030), (87, 67018),

Gene: Lumine_102 Start: 68142, Stop: 67804, Start Num: 41

Candidate Starts for Lumine_102:

(13, 68316), (Start: 41 @68142 has 239 MA's), (46, 68127), (Start: 49 @68094 has 44 MA's), (53, 68058), (62, 67998), (76, 67893), (78, 67887), (85, 67854), (87, 67842),

Gene: MRabcd_101 Start: 68420, Stop: 68082, Start Num: 41

Candidate Starts for MRabcd_101:

(13, 68594), (Start: 41 @68420 has 239 MA's), (46, 68405), (Start: 49 @68372 has 44 MA's), (53, 68336), (62, 68276), (76, 68171), (78, 68165), (85, 68132), (87, 68120),

Gene: Mag7_99 Start: 67898, Stop: 67563, Start Num: 41

Candidate Starts for Mag7_99:

(22, 67991), (Start: 27 @67955 has 3 MA's), (Start: 41 @67898 has 239 MA's), (59, 67769), (62, 67757), (70, 67700), (78, 67646), (80, 67637), (87, 67601),

Gene: Magpie_82 Start: 65575, Stop: 65273, Start Num: 49

Candidate Starts for Magpie_82:

(1, 66226), (7, 65962), (9, 65836), (20, 65749), (Start: 36 @65632 has 1 MA's), (Start: 49 @65575 has 44 MA's), (54, 65533), (59, 65500), (62, 65488), (67, 65458), (70, 65431), (73, 65407), (76, 65374), (78, 65368), (82, 65353), (83, 65341), (85, 65335), (86, 65326),

Gene: MakoManhole_79 Start: 60210, Stop: 59953, Start Num: 51

Candidate Starts for MakoManhole_79:

(Start: 38 @60285 has 6 MA's), (40, 60282), (48, 60246), (Start: 51 @60210 has 4 MA's), (62, 60135), (79, 60024), (83, 60000),

Gene: Mana_98 Start: 68108, Stop: 67770, Start Num: 41

Candidate Starts for Mana_98:

(13, 68282), (Start: 41 @68108 has 239 MA's), (46, 68093), (Start: 49 @68060 has 44 MA's), (53, 68024), (62, 67964), (76, 67859), (78, 67853), (85, 67820), (87, 67808),

Gene: Manad_100 Start: 68211, Stop: 67876, Start Num: 41

Candidate Starts for Manad_100:

(23, 68301), (Start: 27 @68268 has 3 MA's), (Start: 41 @68211 has 239 MA's), (Start: 49 @68166 has 44 MA's), (53, 68130), (59, 68085), (62, 68073), (70, 68016), (78, 67962), (80, 67953), (87, 67917),

Gene: Mariokart_78 Start: 58981, Stop: 58733, Start Num: 49

Candidate Starts for Mariokart_78:

(15, 59194), (30, 59089), (35, 59053), (45, 59017), (Start: 49 @58981 has 44 MA's), (59, 58930), (76, 58816), (77, 58813), (89, 58747),

Gene: Maru_100 Start: 68313, Stop: 67975, Start Num: 41

Candidate Starts for Maru_100:

(13, 68487), (Start: 41 @68313 has 239 MA's), (46, 68298), (Start: 49 @68265 has 44 MA's), (53, 68229), (62, 68169), (76, 68064), (78, 68058), (85, 68025), (87, 68013),

Gene: Maskar_102 Start: 68483, Stop: 68148, Start Num: 41

Candidate Starts for Maskar_102:

(22, 68576), (Start: 27 @68540 has 3 MA's), (Start: 41 @68483 has 239 MA's), (59, 68354), (62, 68342), (70, 68285), (78, 68231), (80, 68222), (87, 68186),

Gene: MasterPo_87 Start: 65150, Stop: 64857, Start Num: 43

Candidate Starts for MasterPo_87:

(Start: 38 @65159 has 6 MA's), (Start: 43 @65150 has 18 MA's), (Start: 49 @65114 has 44 MA's), (62, 65045),

Gene: Matalotodo_99 Start: 68952, Stop: 68614, Start Num: 41

Candidate Starts for Matalotodo_99:

(13, 69126), (Start: 41 @68952 has 239 MA's), (46, 68937), (Start: 49 @68904 has 44 MA's), (53, 68868), (62, 68808), (76, 68703), (78, 68697), (85, 68664), (87, 68652),

Gene: Mecca_101 Start: 68519, Stop: 68181, Start Num: 41

Candidate Starts for Mecca_101:

(13, 68693), (Start: 41 @68519 has 239 MA's), (46, 68504), (Start: 49 @68471 has 44 MA's), (53, 68435), (62, 68375), (76, 68270), (78, 68264), (85, 68231), (87, 68219),

Gene: Megamind20_103 Start: 68299, Stop: 67961, Start Num: 41

Candidate Starts for Megamind20_103:

(13, 68473), (Start: 41 @68299 has 239 MA's), (46, 68284), (Start: 49 @68251 has 44 MA's), (53, 68215), (62, 68155), (76, 68050), (78, 68044), (85, 68011), (87, 67999),

Gene: Megatron_102 Start: 68638, Stop: 68300, Start Num: 41

Candidate Starts for Megatron_102:

(13, 68812), (Start: 41 @68638 has 239 MA's), (46, 68623), (Start: 49 @68590 has 44 MA's), (53, 68554), (62, 68494), (76, 68389), (78, 68383), (85, 68350), (87, 68338),

Gene: Melc17_98 Start: 68582, Stop: 68247, Start Num: 41

Candidate Starts for Melc17_98:

(21, 68675), (22, 68672), (23, 68669), (Start: 41 @68582 has 239 MA's), (59, 68453), (62, 68441), (70, 68384), (78, 68330), (80, 68321), (87, 68285),

Gene: Mesh1_101 Start: 68403, Stop: 68065, Start Num: 41

Candidate Starts for Mesh1_101:

(13, 68577), (Start: 41 @68403 has 239 MA's), (46, 68388), (Start: 49 @68355 has 44 MA's), (53, 68319), (62, 68259), (76, 68154), (78, 68148), (85, 68115), (87, 68103),

Gene: Mesmerelda_102 Start: 68519, Stop: 68181, Start Num: 41

Candidate Starts for Mesmerelda_102:

(13, 68693), (Start: 41 @68519 has 239 MA's), (46, 68504), (Start: 49 @68471 has 44 MA's), (53, 68435), (62, 68375), (76, 68270), (78, 68264), (85, 68231), (87, 68219),

Gene: Mikota_95 Start: 67396, Stop: 67058, Start Num: 41

Candidate Starts for Mikota_95:

(4, 67738), (5, 67735), (6, 67732), (14, 67567), (16, 67540), (Start: 41 @67396 has 239 MA's), (46, 67381), (Start: 49 @67348 has 44 MA's), (53, 67312), (62, 67252), (76, 67147), (78, 67141), (85, 67108), (87, 67096),

Gene: MitKao_101 Start: 68121, Stop: 67783, Start Num: 41

Candidate Starts for MitKao_101:

(13, 68295), (Start: 41 @68121 has 239 MA's), (46, 68106), (Start: 49 @68073 has 44 MA's), (53, 68037), (62, 67977), (76, 67872), (78, 67866), (85, 67833), (87, 67821),

Gene: Mithril_85 Start: 65732, Stop: 65430, Start Num: 49

Candidate Starts for Mithril_85:

(3, 66179), (7, 66119), (9, 65993), (Start: 36 @65789 has 1 MA's), (Start: 49 @65732 has 44 MA's), (54, 65690), (59, 65657), (62, 65645), (67, 65615), (70, 65588), (73, 65564), (76, 65531), (78, 65525), (82, 65510), (83, 65498), (85, 65492), (86, 65483),

Gene: Morgushi_98 Start: 67936, Stop: 67598, Start Num: 41

Candidate Starts for Morgushi_98:

(13, 68110), (Start: 41 @67936 has 239 MA's), (46, 67921), (Start: 49 @67888 has 44 MA's), (53, 67852), (62, 67792), (76, 67687), (78, 67681), (85, 67648), (87, 67636),

Gene: Morty_101 Start: 68506, Stop: 68168, Start Num: 41

Candidate Starts for Morty_101:

(13, 68680), (Start: 41 @68506 has 239 MA's), (46, 68491), (Start: 49 @68458 has 44 MA's), (53, 68422), (62, 68362), (76, 68257), (78, 68251), (85, 68218), (87, 68206),

Gene: Mosaic_98 Start: 68117, Stop: 67779, Start Num: 41

Candidate Starts for Mosaic_98:

(13, 68291), (Start: 41 @68117 has 239 MA's), (46, 68102), (Start: 49 @68069 has 44 MA's), (53, 68033), (62, 67973), (76, 67868), (78, 67862), (85, 67829), (87, 67817),

Gene: MossRose_80 Start: 59689, Stop: 59432, Start Num: 51

Candidate Starts for MossRose_80:

(Start: 38 @59764 has 6 MA's), (40, 59761), (48, 59725), (Start: 51 @59689 has 4 MA's), (55, 59665), (62, 59614), (79, 59503), (83, 59479),

Gene: MrPhizzler_100 Start: 68410, Stop: 68075, Start Num: 41

Candidate Starts for MrPhizzler_100:

(21, 68503), (22, 68500), (23, 68497), (Start: 41 @68410 has 239 MA's), (59, 68281), (62, 68269), (70, 68212), (78, 68158), (80, 68149), (87, 68113),

Gene: Mudslide_86 Start: 66122, Stop: 65820, Start Num: 49

Candidate Starts for Mudslide_86:

(2, 66713), (7, 66509), (9, 66383), (20, 66296), (24, 66266), (26, 66251), (Start: 36 @66179 has 1 MA's), (Start: 49 @66122 has 44 MA's), (54, 66080), (59, 66047), (62, 66035), (67, 66005), (70, 65978), (73, 65954), (76, 65921), (78, 65915), (82, 65900), (83, 65888), (85, 65882), (86, 65873),

Gene: Mulan_100 Start: 68150, Stop: 67812, Start Num: 41

Candidate Starts for Mulan_100:

(13, 68324), (Start: 41 @68150 has 239 MA's), (46, 68135), (Start: 49 @68102 has 44 MA's), (53, 68066), (62, 68006), (76, 67901), (78, 67895), (85, 67862), (87, 67850),

Gene: Murdoc_97 Start: 68229, Stop: 67891, Start Num: 41

Candidate Starts for Murdoc_97:

(13, 68403), (Start: 41 @68229 has 239 MA's), (46, 68214), (Start: 49 @68181 has 44 MA's), (53, 68145), (62, 68085), (76, 67980), (78, 67974), (85, 67941), (87, 67929),

Gene: Mutante_102 Start: 68123, Stop: 67785, Start Num: 41

Candidate Starts for Mutante_102:

(13, 68297), (Start: 41 @68123 has 239 MA's), (46, 68108), (Start: 49 @68075 has 44 MA's), (53, 68039), (62, 67979), (76, 67874), (78, 67868), (85, 67835), (87, 67823),

Gene: NHagos_77 Start: 57942, Stop: 57682, Start Num: 49

Candidate Starts for NHagos_77:

(39, 57990), (Start: 41 @57987 has 239 MA's), (Start: 49 @57942 has 44 MA's), (59, 57885), (62, 57873), (72, 57795),

Gene: Nacho_00103 Start: 68950, Stop: 68612, Start Num: 41

Candidate Starts for Nacho_00103:

(13, 69124), (Start: 41 @68950 has 239 MA's), (46, 68935), (Start: 49 @68902 has 44 MA's), (53, 68866), (62, 68806), (76, 68701), (78, 68695), (85, 68662), (87, 68650),

Gene: Nangang_93 Start: 68170, Stop: 67862, Start Num: 49

Candidate Starts for Nangang_93:

(Start: 49 @68170 has 44 MA's), (52, 68137), (62, 68089), (68, 68047), (78, 67972), (83, 67945),

Gene: Nathan_100 Start: 68365, Stop: 68030, Start Num: 41

Candidate Starts for Nathan_100:

(22, 68458), (Start: 27 @68422 has 3 MA's), (Start: 41 @68365 has 239 MA's), (59, 68236), (62, 68224), (70, 68167), (78, 68113), (80, 68104), (87, 68068),

Gene: Newman_96 Start: 68227, Stop: 67889, Start Num: 41

Candidate Starts for Newman_96:

(13, 68401), (Start: 41 @68227 has 239 MA's), (46, 68212), (Start: 49 @68179 has 44 MA's), (53, 68143), (62, 68083), (76, 67978), (78, 67972), (85, 67939), (87, 67927),

Gene: Nicole21_102 Start: 68257, Stop: 67919, Start Num: 41

Candidate Starts for Nicole21_102:

(13, 68431), (Start: 41 @68257 has 239 MA's), (46, 68242), (Start: 49 @68209 has 44 MA's), (53, 68173), (62, 68113), (76, 68008), (78, 68002), (85, 67969), (87, 67957),

Gene: Numberten_101 Start: 68236, Stop: 67898, Start Num: 41

Candidate Starts for Numberten_101:

(13, 68410), (Start: 41 @68236 has 239 MA's), (46, 68221), (Start: 49 @68188 has 44 MA's), (53, 68152), (62, 68092), (76, 67987), (78, 67981), (85, 67948), (87, 67936),

Gene: Nyala_101 Start: 67972, Stop: 67634, Start Num: 41

Candidate Starts for Nyala_101:

(13, 68146), (Start: 41 @67972 has 239 MA's), (46, 67957), (Start: 49 @67924 has 44 MA's), (53, 67888), (62, 67828), (76, 67723), (78, 67717), (85, 67684), (87, 67672),

Gene: Olak_103 Start: 68558, Stop: 68166, Start Num: 27

Candidate Starts for Olak_103:

(22, 68594), (Start: 27 @68558 has 3 MA's), (Start: 41 @68501 has 239 MA's), (Start: 49 @68456 has 44 MA's), (53, 68420), (59, 68375), (62, 68363), (70, 68306), (78, 68252), (80, 68243), (87, 68207),

Gene: Olive_97 Start: 68369, Stop: 68031, Start Num: 41

Candidate Starts for Olive_97:

(13, 68543), (Start: 41 @68369 has 239 MA's), (46, 68354), (Start: 49 @68321 has 44 MA's), (53, 68285), (62, 68225), (76, 68120), (78, 68114), (85, 68081), (87, 68069),

Gene: OliverWalter_100 Start: 68421, Stop: 68083, Start Num: 41

Candidate Starts for OliverWalter_100:

(13, 68595), (Start: 41 @68421 has 239 MA's), (46, 68406), (Start: 49 @68373 has 44 MA's), (53, 68337), (62, 68277), (76, 68172), (78, 68166), (85, 68133), (87, 68121),

Gene: Omniscient_102 Start: 68826, Stop: 68488, Start Num: 41

Candidate Starts for Omniscient_102:

(13, 69000), (Start: 41 @68826 has 239 MA's), (46, 68811), (Start: 49 @68778 has 44 MA's), (53, 68742), (62, 68682), (76, 68577), (78, 68571), (85, 68538), (87, 68526),

Gene: Oosterbaan_101 Start: 68364, Stop: 68026, Start Num: 41

Candidate Starts for Oosterbaan_101:

(13, 68538), (Start: 41 @68364 has 239 MA's), (46, 68349), (Start: 49 @68316 has 44 MA's), (53, 68280), (62, 68220), (76, 68115), (78, 68109), (85, 68076), (87, 68064),

Gene: Opia_87 Start: 65184, Stop: 64882, Start Num: 38

Candidate Starts for Opia_87:

(Start: 38 @65184 has 6 MA's), (Start: 43 @65175 has 18 MA's), (Start: 49 @65139 has 44 MA's), (62, 65070),

Gene: Orfeu_101 Start: 68485, Stop: 68147, Start Num: 41

Candidate Starts for Orfeu_101:

(13, 68659), (Start: 41 @68485 has 239 MA's), (46, 68470), (Start: 49 @68437 has 44 MA's), (53, 68401), (62, 68341), (76, 68236), (78, 68230), (85, 68197), (87, 68185),

Gene: Orion_99 Start: 68056, Stop: 67718, Start Num: 41

Candidate Starts for Orion_99:

(13, 68230), (Start: 41 @68056 has 239 MA's), (46, 68041), (Start: 49 @68008 has 44 MA's), (53, 67972), (62, 67912), (76, 67807), (78, 67801), (85, 67768), (87, 67756),

Gene: Orwigg_102 Start: 68261, Stop: 67923, Start Num: 41

Candidate Starts for Orwigg_102:

(Start: 41 @68261 has 239 MA's), (46, 68246), (Start: 49 @68213 has 44 MA's), (53, 68177), (62, 68117), (76, 68012), (78, 68006), (85, 67973), (87, 67961),

Gene: PG1_99 Start: 68628, Stop: 68290, Start Num: 41

Candidate Starts for PG1_99:

(13, 68802), (Start: 41 @68628 has 239 MA's), (46, 68613), (Start: 49 @68580 has 44 MA's), (53, 68544), (62, 68484), (76, 68379), (78, 68373), (85, 68340), (87, 68328),

Gene: Pacifista_103 Start: 68348, Stop: 68010, Start Num: 41

Candidate Starts for Pacifista_103:

(13, 68522), (Start: 41 @68348 has 239 MA's), (46, 68333), (Start: 49 @68300 has 44 MA's), (53, 68264), (62, 68204), (76, 68099), (78, 68093), (85, 68060), (87, 68048),

Gene: Phamished_100 Start: 68144, Stop: 67806, Start Num: 41

Candidate Starts for Phamished_100:

(13, 68318), (Start: 41 @68144 has 239 MA's), (46, 68129), (Start: 49 @68096 has 44 MA's), (53, 68060), (62, 68000), (76, 67895), (78, 67889), (85, 67856), (87, 67844),

Gene: Phantasmagoria_85 Start: 65121, Stop: 64864, Start Num: 49

Candidate Starts for Phantasmagoria_85:

(Start: 49 @65121 has 44 MA's), (62, 65052),

Gene: Phareon_98 Start: 67669, Stop: 67331, Start Num: 41

Candidate Starts for Phareon_98:

(13, 67843), (Start: 41 @67669 has 239 MA's), (46, 67654), (Start: 49 @67621 has 44 MA's), (53, 67585), (62, 67525), (76, 67420), (78, 67414), (85, 67381), (87, 67369),

Gene: PhatCats2014_100 Start: 68629, Stop: 68291, Start Num: 41

Candidate Starts for PhatCats2014_100:

(13, 68803), (Start: 41 @68629 has 239 MA's), (46, 68614), (Start: 49 @68581 has 44 MA's), (53, 68545), (62, 68485), (76, 68380), (78, 68374), (85, 68341), (87, 68329),

Gene: PhatLouie_103 Start: 68496, Stop: 68161, Start Num: 41

Candidate Starts for PhatLouie_103:

(21, 68589), (22, 68586), (23, 68583), (Start: 41 @68496 has 239 MA's), (59, 68367), (62, 68355), (70, 68298), (78, 68244), (80, 68235), (87, 68199),

Gene: Pherdinand_102 Start: 68348, Stop: 68010, Start Num: 41

Candidate Starts for Pherdinand_102:

(13, 68522), (Start: 41 @68348 has 239 MA's), (46, 68333), (Start: 49 @68300 has 44 MA's), (53, 68264), (62, 68204), (76, 68099), (78, 68093), (85, 68060), (87, 68048),

Gene: Phipps_98 Start: 67922, Stop: 67584, Start Num: 41

Candidate Starts for Phipps_98:

(13, 68096), (Start: 41 @67922 has 239 MA's), (46, 67907), (Start: 49 @67874 has 44 MA's), (53, 67838), (62, 67778), (76, 67673), (78, 67667), (85, 67634), (87, 67622),

Gene: Phleuron_98 Start: 67928, Stop: 67593, Start Num: 41

Candidate Starts for Phleuron_98:

(22, 68021), (Start: 27 @67985 has 3 MA's), (Start: 41 @67928 has 239 MA's), (59, 67799), (62, 67787), (70, 67730), (78, 67676), (80, 67667), (87, 67631),

Gene: PhrodoBaggins_103 Start: 68502, Stop: 68164, Start Num: 41

Candidate Starts for PhrodoBaggins_103:

(13, 68676), (Start: 41 @68502 has 239 MA's), (46, 68487), (Start: 49 @68454 has 44 MA's), (53, 68418), (62, 68358), (76, 68253), (78, 68247), (85, 68214), (87, 68202),

Gene: Phunky_98 Start: 68004, Stop: 67666, Start Num: 41

Candidate Starts for Phunky_98:

(13, 68178), (Start: 41 @68004 has 239 MA's), (46, 67989), (Start: 49 @67956 has 44 MA's), (53, 67920), (62, 67860), (76, 67755), (78, 67749), (85, 67716), (87, 67704),

Gene: Piglet_00100 Start: 68621, Stop: 68283, Start Num: 41

Candidate Starts for Piglet_00100:

(13, 68795), (Start: 41 @68621 has 239 MA's), (46, 68606), (Start: 49 @68573 has 44 MA's), (53, 68537), (62, 68477), (76, 68372), (78, 68366), (85, 68333), (87, 68321),

Gene: PinheadLarry_100 Start: 68267, Stop: 67932, Start Num: 41

Candidate Starts for PinheadLarry_100:

(21, 68360), (22, 68357), (23, 68354), (Start: 41 @68267 has 239 MA's), (59, 68138), (62, 68126), (70, 68069), (78, 68015), (80, 68006), (87, 67970),

Gene: Pinkman_100 Start: 68339, Stop: 68004, Start Num: 41

Candidate Starts for Pinkman_100:

(22, 68432), (Start: 27 @68396 has 3 MA's), (Start: 41 @68339 has 239 MA's), (59, 68210), (62, 68198), (70, 68141), (78, 68087), (80, 68078), (87, 68042),

Gene: Pipsqueak_98 Start: 67956, Stop: 67618, Start Num: 41

Candidate Starts for Pipsqueak_98:

(13, 68130), (Start: 41 @67956 has 239 MA's), (46, 67941), (Start: 49 @67908 has 44 MA's), (53, 67872), (62, 67812), (76, 67707), (78, 67701), (85, 67668), (87, 67656),

Gene: Placalicious_98 Start: 68714, Stop: 68376, Start Num: 41

Candidate Starts for Placalicious_98:

(13, 68888), (Start: 41 @68714 has 239 MA's), (46, 68699), (Start: 49 @68666 has 44 MA's), (53, 68630), (62, 68570), (76, 68465), (78, 68459), (85, 68426), (87, 68414),

Gene: Plata_98 Start: 67930, Stop: 67595, Start Num: 41

Candidate Starts for Plata_98:

(22, 68047), (Start: 27 @68011 has 3 MA's), (Start: 41 @67930 has 239 MA's), (59, 67801), (62, 67789), (70, 67732), (78, 67678), (80, 67669), (87, 67633),

Gene: Plmatters_98 Start: 67947, Stop: 67609, Start Num: 41

Candidate Starts for Plmatters_98:

(13, 68121), (Start: 41 @67947 has 239 MA's), (46, 67932), (Start: 49 @67899 has 44 MA's), (53, 67863), (62, 67803), (76, 67698), (78, 67692), (85, 67659), (87, 67647),

Gene: Podrick_99 Start: 68035, Stop: 67697, Start Num: 41

Candidate Starts for Podrick_99:

(13, 68209), (Start: 41 @68035 has 239 MA's), (46, 68020), (Start: 49 @67987 has 44 MA's), (53, 67951), (62, 67891), (76, 67786), (78, 67780), (85, 67747), (87, 67735),

Gene: Pops_98 Start: 67995, Stop: 67657, Start Num: 41

Candidate Starts for Pops_98:

(Start: 41 @67995 has 239 MA's), (46, 67980), (Start: 49 @67947 has 44 MA's), (53, 67911), (62, 67851), (76, 67746), (78, 67740), (85, 67707), (87, 67695),

Gene: Potter_95 Start: 67956, Stop: 67618, Start Num: 41

Candidate Starts for Potter_95:

(13, 68130), (Start: 41 @67956 has 239 MA's), (46, 67941), (Start: 49 @67908 has 44 MA's), (53, 67872), (62, 67812), (76, 67707), (78, 67701), (85, 67668), (87, 67656),

Gene: Prickles_101 Start: 68082, Stop: 67744, Start Num: 41

Candidate Starts for Prickles_101:

(13, 68256), (Start: 41 @68082 has 239 MA's), (46, 68067), (Start: 49 @68034 has 44 MA's), (53, 67998), (62, 67938), (76, 67833), (78, 67827), (85, 67794), (87, 67782),

Gene: Prince_85 Start: 65989, Stop: 65687, Start Num: 49

Candidate Starts for Prince_85:

(7, 66376), (9, 66250), (Start: 36 @66046 has 1 MA's), (Start: 49 @65989 has 44 MA's), (54, 65947), (59, 65914), (62, 65902), (67, 65872), (70, 65845), (73, 65821), (76, 65788), (78, 65782), (82, 65767), (83, 65755), (85, 65749), (86, 65740),

Gene: PrinceCharming_86 Start: 65167, Stop: 64910, Start Num: 49

Candidate Starts for PrinceCharming_86:

(Start: 38 @65212 has 6 MA's), (Start: 43 @65203 has 18 MA's), (Start: 49 @65167 has 44 MA's), (62, 65098),

Gene: ProfessorX_98 Start: 67715, Stop: 67377, Start Num: 41

Candidate Starts for ProfessorX_98:

(13, 67889), (Start: 41 @67715 has 239 MA's), (46, 67700), (Start: 49 @67667 has 44 MA's), (53, 67631), (62, 67571), (76, 67466), (78, 67460), (85, 67427), (87, 67415),

Gene: Puhltonio_96 Start: 67952, Stop: 67614, Start Num: 41

Candidate Starts for Puhltonio_96:

(13, 68126), (Start: 41 @67952 has 239 MA's), (46, 67937), (Start: 49 @67904 has 44 MA's), (53, 67868), (62, 67808), (76, 67703), (78, 67697), (85, 67664), (87, 67652),

Gene: QueenBeane_101 Start: 68279, Stop: 67941, Start Num: 41

Candidate Starts for QueenBeane_101:

(13, 68453), (Start: 41 @68279 has 239 MA's), (46, 68264), (Start: 49 @68231 has 44 MA's), (53, 68195), (62, 68135), (76, 68030), (78, 68024), (85, 67991), (87, 67979),

Gene: Quisquilliae_103 Start: 68290, Stop: 67952, Start Num: 41

Candidate Starts for Quisquilliae_103:

(13, 68464), (Start: 41 @68290 has 239 MA's), (46, 68275), (Start: 49 @68242 has 44 MA's), (53, 68206), (62, 68146), (76, 68041), (78, 68035), (85, 68002), (87, 67990),

Gene: Qyrzula_77 Start: 65297, Stop: 65004, Start Num: 43

Candidate Starts for Qyrzula_77:

(Start: 38 @65306 has 6 MA's), (Start: 43 @65297 has 18 MA's), (Start: 49 @65261 has 44 MA's), (62, 65192),

Gene: RawrgerThat_85 Start: 65580, Stop: 65278, Start Num: 49

Candidate Starts for RawrgerThat_85:

(3, 66027), (7, 65967), (9, 65841), (Start: 36 @65637 has 1 MA's), (Start: 49 @65580 has 44 MA's), (54, 65538), (59, 65505), (62, 65493), (67, 65463), (70, 65436), (73, 65412), (76, 65379), (78, 65373), (82, 65358), (83, 65346), (85, 65340), (86, 65331),

Gene: RedMaple_99 Start: 68613, Stop: 68275, Start Num: 41

Candidate Starts for RedMaple_99:

(13, 68787), (Start: 41 @68613 has 239 MA's), (46, 68598), (Start: 49 @68565 has 44 MA's), (53, 68529), (62, 68469), (76, 68364), (78, 68358), (85, 68325), (87, 68313),

Gene: Rhinoforte_86 Start: 65158, Stop: 64901, Start Num: 49

Candidate Starts for Rhinoforte_86:

(Start: 38 @65203 has 6 MA's), (Start: 43 @65194 has 18 MA's), (Start: 49 @65158 has 44 MA's), (62, 65089),

Gene: Ricotta_102 Start: 67969, Stop: 67634, Start Num: 41

Candidate Starts for Ricotta_102:

(22, 68086), (Start: 27 @68050 has 3 MA's), (Start: 41 @67969 has 239 MA's), (59, 67840), (62, 67828), (70, 67771), (78, 67717), (80, 67708), (87, 67672),

Gene: Riggan_102 Start: 68460, Stop: 68122, Start Num: 41

Candidate Starts for Riggan_102:

(13, 68634), (Start: 41 @68460 has 239 MA's), (46, 68445), (Start: 49 @68412 has 44 MA's), (53, 68376), (62, 68316), (76, 68211), (78, 68205), (85, 68172), (87, 68160),

Gene: Riverton_99 Start: 67964, Stop: 67626, Start Num: 41

Candidate Starts for Riverton_99:

(Start: 41 @67964 has 239 MA's), (46, 67949), (Start: 49 @67916 has 44 MA's), (53, 67880), (62, 67820), (76, 67715), (78, 67709), (85, 67676), (87, 67664),

Gene: Robyn_102 Start: 68352, Stop: 68014, Start Num: 41

Candidate Starts for Robyn_102:

(28, 68397), (Start: 41 @68352 has 239 MA's), (46, 68337), (Start: 49 @68304 has 44 MA's), (53, 68268), (62, 68208), (76, 68103), (78, 68097), (85, 68064), (87, 68052),

Gene: Roliet_98 Start: 67314, Stop: 66979, Start Num: 41

Candidate Starts for Roliet_98:

(Start: 27 @67371 has 3 MA's), (Start: 41 @67314 has 239 MA's), (59, 67185), (62, 67173), (70, 67116), (78, 67062), (80, 67053), (87, 67017),

Gene: Roscoe_99 Start: 68232, Stop: 67894, Start Num: 41

Candidate Starts for Roscoe_99:

(13, 68406), (Start: 41 @68232 has 239 MA's), (46, 68217), (Start: 49 @68184 has 44 MA's), (53, 68148), (62, 68088), (76, 67983), (78, 67977), (85, 67944), (87, 67932),

Gene: Rosebush_84 Start: 65230, Stop: 64973, Start Num: 49

Candidate Starts for Rosebush_84:

(Start: 38 @65275 has 6 MA's), (Start: 43 @65266 has 18 MA's), (Start: 49 @65230 has 44 MA's), (62, 65161),

Gene: Roy17_98 Start: 67685, Stop: 67347, Start Num: 41

Candidate Starts for Roy17_98:

(13, 67859), (Start: 41 @67685 has 239 MA's), (46, 67670), (Start: 49 @67637 has 44 MA's), (53, 67601), (62, 67541), (76, 67436), (78, 67430), (85, 67397), (87, 67385),

Gene: SDcharge11_99 Start: 67329, Stop: 66994, Start Num: 41

Candidate Starts for SDcharge11_99:

(Start: 27 @67386 has 3 MA's), (Start: 41 @67329 has 239 MA's), (59, 67200), (62, 67188), (70, 67131), (78, 67077), (80, 67068), (87, 67032),

Gene: Sabella_86 Start: 65102, Stop: 64809, Start Num: 43

Candidate Starts for Sabella_86:

(Start: 38 @65111 has 6 MA's), (Start: 43 @65102 has 18 MA's), (Start: 49 @65066 has 44 MA's), (62, 64997),

Gene: Samaymay_101 Start: 68279, Stop: 67941, Start Num: 41

Candidate Starts for Samaymay_101:

(13, 68453), (Start: 41 @68279 has 239 MA's), (46, 68264), (Start: 49 @68231 has 44 MA's), (53, 68195), (62, 68135), (76, 68030), (78, 68024), (85, 67991), (87, 67979),

Gene: SassyCat97_99 Start: 67947, Stop: 67609, Start Num: 41

Candidate Starts for SassyCat97_99:

(13, 68121), (Start: 41 @67947 has 239 MA's), (46, 67932), (Start: 49 @67899 has 44 MA's), (53, 67863), (62, 67803), (76, 67698), (78, 67692), (85, 67659), (87, 67647),

Gene: Schadenfreude_101 Start: 67996, Stop: 67658, Start Num: 41

Candidate Starts for Schadenfreude_101:

(Start: 41 @67996 has 239 MA's), (46, 67981), (Start: 49 @67948 has 44 MA's), (53, 67912), (62, 67852), (76, 67747), (78, 67741), (85, 67708), (87, 67696),

Gene: Scoot17C_101 Start: 68061, Stop: 67723, Start Num: 41

Candidate Starts for Scoot17C_101:

(13, 68235), (Start: 41 @68061 has 239 MA's), (46, 68046), (Start: 49 @68013 has 44 MA's), (53, 67977), (62, 67917), (76, 67812), (78, 67806), (85, 67773), (87, 67761),

Gene: Scrick_102 Start: 68330, Stop: 67992, Start Num: 41

Candidate Starts for Scrick_102:

(13, 68504), (Start: 41 @68330 has 239 MA's), (46, 68315), (Start: 49 @68282 has 44 MA's), (53, 68246), (62, 68186), (76, 68081), (78, 68075), (85, 68042), (87, 68030),

Gene: Selr12_105 Start: 68371, Stop: 68033, Start Num: 41

Candidate Starts for Selr12_105:

(13, 68545), (Start: 41 @68371 has 239 MA's), (46, 68356), (Start: 49 @68323 has 44 MA's), (53, 68287), (62, 68227), (76, 68122), (78, 68116), (85, 68083), (87, 68071),

Gene: Serendipity_100 Start: 68433, Stop: 68095, Start Num: 41

Candidate Starts for Serendipity_100:

(13, 68607), (Start: 41 @68433 has 239 MA's), (46, 68418), (Start: 49 @68385 has 44 MA's), (53, 68349), (62, 68289), (76, 68184), (78, 68178), (85, 68145), (87, 68133),

Gene: Serpentine_00103 Start: 68513, Stop: 68175, Start Num: 41

Candidate Starts for Serpentine_00103:

(13, 68687), (Start: 41 @68513 has 239 MA's), (46, 68498), (Start: 49 @68465 has 44 MA's), (53, 68429), (62, 68369), (76, 68264), (78, 68258), (85, 68225), (87, 68213),

Gene: Shatter_81 Start: 59787, Stop: 59539, Start Num: 49

Candidate Starts for Shatter_81:

(25, 59919), (31, 59892), (45, 59823), (Start: 49 @59787 has 44 MA's), (59, 59736), (66, 59694), (77, 59619), (89, 59553),

Gene: Sheila_95 Start: 67507, Stop: 67172, Start Num: 41

Candidate Starts for Sheila_95:

(Start: 27 @67564 has 3 MA's), (Start: 41 @67507 has 239 MA's), (59, 67378), (62, 67366), (70, 67309), (78, 67255), (80, 67246), (87, 67210),

Gene: Shenyu_93 Start: 68168, Stop: 67860, Start Num: 49

Candidate Starts for Shenyu_93:

(Start: 49 @68168 has 44 MA's), (52, 68135), (62, 68087), (68, 68045), (78, 67970), (83, 67943),

Gene: ShiVal_100 Start: 67984, Stop: 67646, Start Num: 41

Candidate Starts for ShiVal_100:

(13, 68158), (Start: 41 @67984 has 239 MA's), (46, 67969), (Start: 49 @67936 has 44 MA's), (53, 67900), (62, 67840), (76, 67735), (78, 67729), (85, 67696), (87, 67684),

Gene: Sigman_100 Start: 67940, Stop: 67602, Start Num: 41

Candidate Starts for Sigman_100:

(13, 68114), (Start: 41 @67940 has 239 MA's), (46, 67925), (Start: 49 @67892 has 44 MA's), (53, 67856), (62, 67796), (76, 67691), (78, 67685), (85, 67652), (87, 67640),

Gene: SilverBell_102 Start: 68394, Stop: 68056, Start Num: 41

Candidate Starts for SilverBell_102:

(13, 68568), (Start: 41 @68394 has 239 MA's), (46, 68379), (Start: 49 @68346 has 44 MA's), (53, 68310), (62, 68250), (76, 68145), (78, 68139), (85, 68106), (87, 68094),

Gene: Simielle_101 Start: 67926, Stop: 67588, Start Num: 41

Candidate Starts for Simielle_101:

(13, 68100), (Start: 41 @67926 has 239 MA's), (46, 67911), (Start: 49 @67878 has 44 MA's), (53, 67842), (62, 67782), (76, 67677), (78, 67671), (85, 67638), (87, 67626),

Gene: SirBeauregard_101 Start: 68239, Stop: 67907, Start Num: 41

Candidate Starts for SirBeauregard_101:

(Start: 27 @68296 has 3 MA's), (Start: 41 @68239 has 239 MA's), (Start: 49 @68194 has 44 MA's), (53, 68158), (59, 68113), (62, 68101), (70, 68044), (78, 67990), (80, 67981), (87, 67945),

Gene: Sisko_79 Start: 60232, Stop: 59969, Start Num: 49

Candidate Starts for Sisko_79:

(Start: 49 @60232 has 44 MA's), (82, 60028),

Gene: Skippy_101 Start: 68355, Stop: 68017, Start Num: 41

Candidate Starts for Skippy_101:

(13, 68529), (Start: 41 @68355 has 239 MA's), (46, 68340), (Start: 49 @68307 has 44 MA's), (53, 68271), (62, 68211), (76, 68106), (78, 68100), (85, 68067), (87, 68055),

Gene: Skog_28 Start: 12845, Stop: 13108, Start Num: 49

Candidate Starts for Skog_28:

(Start: 49 @12845 has 44 MA's), (56, 12893), (62, 12920), (77, 13037),

Gene: Slatt_103 Start: 68611, Stop: 68273, Start Num: 41

Candidate Starts for Slatt_103:

(13, 68785), (Start: 41 @68611 has 239 MA's), (46, 68596), (Start: 49 @68563 has 44 MA's), (53, 68527), (62, 68467), (76, 68362), (78, 68356), (85, 68323), (87, 68311),

Gene: Solosis_99 Start: 67945, Stop: 67610, Start Num: 41

Candidate Starts for Solosis_99:

(21, 68038), (22, 68035), (23, 68032), (Start: 41 @67945 has 239 MA's), (59, 67816), (62, 67804), (70, 67747), (78, 67693), (80, 67684), (87, 67648),

Gene: Sophia_99 Start: 67935, Stop: 67597, Start Num: 41

Candidate Starts for Sophia_99:

(13, 68109), (Start: 41 @67935 has 239 MA's), (46, 67920), (Start: 49 @67887 has 44 MA's), (53, 67851), (62, 67791), (76, 67686), (78, 67680), (85, 67647), (87, 67635),

Gene: Soto_97 Start: 67376, Stop: 67038, Start Num: 41

Candidate Starts for Soto_97:

(Start: 41 @67376 has 239 MA's), (46, 67361), (Start: 49 @67328 has 44 MA's), (53, 67292), (62, 67232), (76, 67127), (78, 67121), (85, 67088), (87, 67076),

Gene: Sour_75 Start: 59915, Stop: 59661, Start Num: 49

Candidate Starts for Sour_75:

(11, 60173), (19, 60113), (28, 60035), (29, 60032), (Start: 49 @59915 has 44 MA's), (60, 59858), (63, 59846), (70, 59786), (76, 59744), (77, 59741), (81, 59726), (82, 59723), (89, 59675),

Gene: Spartan300_100 Start: 68197, Stop: 67859, Start Num: 41

Candidate Starts for Spartan300_100:

(13, 68371), (Start: 41 @68197 has 239 MA's), (46, 68182), (Start: 49 @68149 has 44 MA's), (53, 68113), (62, 68053), (76, 67948), (78, 67942), (85, 67909), (87, 67897),

Gene: Squid_100 Start: 68225, Stop: 67887, Start Num: 41

Candidate Starts for Squid_100:

(13, 68399), (Start: 41 @68225 has 239 MA's), (46, 68210), (Start: 49 @68177 has 44 MA's), (53, 68141), (62, 68081), (76, 67976), (78, 67970), (85, 67937), (87, 67925),

Gene: Squiggle_100 Start: 67954, Stop: 67616, Start Num: 41

Candidate Starts for Squiggle_100:

(13, 68128), (Start: 41 @67954 has 239 MA's), (46, 67939), (Start: 49 @67906 has 44 MA's), (53, 67870), (62, 67810), (76, 67705), (78, 67699), (85, 67666), (87, 67654),

Gene: Stinger_84 Start: 64428, Stop: 64096, Start Num: 36

Candidate Starts for Stinger_84:

(12, 64629), (Start: 36 @64428 has 1 MA's), (Start: 49 @64374 has 44 MA's), (59, 64299), (62, 64287), (67, 64257), (70, 64230), (76, 64194), (78, 64188), (83, 64161), (86, 64146),

Gene: Struggle_101 Start: 68046, Stop: 67711, Start Num: 41

Candidate Starts for Struggle_101:

(22, 68163), (Start: 27 @68127 has 3 MA's), (Start: 41 @68046 has 239 MA's), (59, 67917), (62, 67905), (70, 67848), (78, 67794), (80, 67785), (87, 67749),

Gene: Suffolk_96 Start: 67882, Stop: 67544, Start Num: 41

Candidate Starts for Suffolk_96:

(Start: 41 @67882 has 239 MA's), (46, 67867), (Start: 49 @67834 has 44 MA's), (53, 67798), (62, 67738), (76, 67633), (78, 67627), (85, 67594), (87, 67582),

Gene: Surely_101 Start: 68517, Stop: 68179, Start Num: 41

Candidate Starts for Surely_101:

(13, 68691), (Start: 41 @68517 has 239 MA's), (46, 68502), (Start: 49 @68469 has 44 MA's), (53, 68433), (62, 68373), (76, 68268), (78, 68262), (85, 68229), (87, 68217),

Gene: Swiphy_105 Start: 68496, Stop: 68161, Start Num: 41

Candidate Starts for Swiphy_105:

(21, 68589), (22, 68586), (23, 68583), (Start: 41 @68496 has 239 MA's), (59, 68367), (62, 68355), (70, 68298), (78, 68244), (80, 68235), (87, 68199),

Gene: Swish_102 Start: 68364, Stop: 68026, Start Num: 41

Candidate Starts for Swish_102:

(13, 68538), (Start: 41 @68364 has 239 MA's), (46, 68349), (Start: 49 @68316 has 44 MA's), (53, 68280), (62, 68220), (76, 68115), (78, 68109), (85, 68076), (87, 68064),

Gene: TA17A_89 Start: 65109, Stop: 64816, Start Num: 43

Candidate Starts for TA17A_89:

(Start: 38 @65118 has 6 MA's), (Start: 43 @65109 has 18 MA's), (Start: 49 @65073 has 44 MA's), (62, 65004),

Gene: TallGrassMM_100 Start: 68010, Stop: 67675, Start Num: 41

Candidate Starts for TallGrassMM_100:

(21, 68103), (22, 68100), (23, 68097), (Start: 41 @68010 has 239 MA's), (59, 67881), (62, 67869), (70, 67812), (78, 67758), (80, 67749), (87, 67713),

Gene: Telesworld_99 Start: 68087, Stop: 67749, Start Num: 41

Candidate Starts for Telesworld_99:

(13, 68261), (Start: 41 @68087 has 239 MA's), (46, 68072), (Start: 49 @68039 has 44 MA's), (53, 68003), (62, 67943), (76, 67838), (78, 67832), (85, 67799), (87, 67787),

Gene: Thora_99 Start: 68468, Stop: 68130, Start Num: 41

Candidate Starts for Thora_99:

(13, 68642), (Start: 41 @68468 has 239 MA's), (46, 68453), (Start: 49 @68420 has 44 MA's), (53, 68384), (62, 68324), (76, 68219), (78, 68213), (85, 68180), (87, 68168),

Gene: ThreeOh3D2_102 Start: 68621, Stop: 68283, Start Num: 41

Candidate Starts for ThreeOh3D2_102:

(13, 68795), (Start: 41 @68621 has 239 MA's), (46, 68606), (Start: 49 @68573 has 44 MA's), (53, 68537), (62, 68477), (76, 68372), (78, 68366), (85, 68333), (87, 68321),

Gene: Thunderbird_101 Start: 68203, Stop: 67868, Start Num: 41

Candidate Starts for Thunderbird_101:

(22, 68320), (Start: 27 @68284 has 3 MA's), (Start: 41 @68203 has 239 MA's), (59, 68074), (62, 68062), (70, 68005), (78, 67951), (80, 67942), (87, 67906),

Gene: Timmi_99 Start: 67984, Stop: 67646, Start Num: 41

Candidate Starts for Timmi_99:

(13, 68158), (Start: 41 @67984 has 239 MA's), (46, 67969), (Start: 49 @67936 has 44 MA's), (53, 67900), (62, 67840), (76, 67735), (78, 67729), (85, 67696), (87, 67684),

Gene: Tinciduntolum_87 Start: 65273, Stop: 64980, Start Num: 43

Candidate Starts for Tinciduntolum_87:

(Start: 38 @65282 has 6 MA's), (Start: 43 @65273 has 18 MA's), (Start: 49 @65237 has 44 MA's), (62, 65168),

Gene: TomBombadil_101 Start: 68509, Stop: 68171, Start Num: 41

Candidate Starts for TomBombadil_101:

(13, 68683), (Start: 41 @68509 has 239 MA's), (46, 68494), (Start: 49 @68461 has 44 MA's), (53, 68425), (62, 68365), (76, 68260), (78, 68254), (85, 68221), (87, 68209),

Gene: Tomlarah_101 Start: 68817, Stop: 68479, Start Num: 41

Candidate Starts for Tomlarah_101:

(13, 68991), (Start: 41 @68817 has 239 MA's), (46, 68802), (Start: 49 @68769 has 44 MA's), (53, 68733), (62, 68673), (76, 68568), (78, 68562), (85, 68529), (87, 68517),

Gene: Toni_100 Start: 68413, Stop: 68075, Start Num: 41

Candidate Starts for Toni_100:

(13, 68587), (Start: 41 @68413 has 239 MA's), (46, 68398), (Start: 49 @68365 has 44 MA's), (53, 68329), (62, 68269), (76, 68164), (78, 68158), (85, 68125), (87, 68113),

Gene: TooFast2Furius_101 Start: 68131, Stop: 67793, Start Num: 41

Candidate Starts for TooFast2Furius_101:

(13, 68305), (Start: 41 @68131 has 239 MA's), (46, 68116), (Start: 49 @68083 has 44 MA's), (53, 68047), (62, 67987), (76, 67882), (78, 67876), (85, 67843), (87, 67831),

Gene: Tooj_98 Start: 67628, Stop: 67290, Start Num: 41

Candidate Starts for Tooj_98:

(Start: 41 @67628 has 239 MA's), (46, 67613), (Start: 49 @67580 has 44 MA's), (53, 67544), (62, 67484), (76, 67379), (78, 67373), (85, 67340), (87, 67328),

Gene: Tres_86 Start: 65135, Stop: 64833, Start Num: 38

Candidate Starts for Tres_86:

(Start: 38 @65135 has 6 MA's), (Start: 43 @65126 has 18 MA's), (Start: 49 @65090 has 44 MA's), (62, 65021),

Gene: True_102 Start: 68323, Stop: 67988, Start Num: 41

Candidate Starts for True_102:

(22, 68416), (Start: 27 @68380 has 3 MA's), (Start: 41 @68323 has 239 MA's), (Start: 49 @68278 has 44 MA's), (53, 68242), (59, 68197), (62, 68185), (70, 68128), (78, 68074), (80, 68065), (87, 68029),

Gene: Trypo_101 Start: 68675, Stop: 68340, Start Num: 41

Candidate Starts for Trypo_101:

(21, 68768), (22, 68765), (23, 68762), (Start: 41 @68675 has 239 MA's), (59, 68546), (62, 68534), (70, 68477), (78, 68423), (80, 68414), (87, 68378),

Gene: UAch1_101 Start: 68034, Stop: 67696, Start Num: 41

Candidate Starts for UAch1_101:

(13, 68208), (Start: 41 @68034 has 239 MA's), (46, 68019), (Start: 49 @67986 has 44 MA's), (53, 67950), (62, 67890), (76, 67785), (78, 67779), (85, 67746), (87, 67734),

Gene: UncleHowie_97 Start: 67645, Stop: 67307, Start Num: 41

Candidate Starts for UncleHowie_97:

(13, 67819), (Start: 41 @67645 has 239 MA's), (46, 67630), (Start: 49 @67597 has 44 MA's), (53, 67561), (62, 67501), (76, 67396), (78, 67390), (85, 67357), (87, 67345),

Gene: Usavi_101 Start: 68807, Stop: 68469, Start Num: 41

Candidate Starts for Usavi_101:

(13, 68981), (Start: 41 @68807 has 239 MA's), (46, 68792), (Start: 49 @68759 has 44 MA's), (53, 68723), (62, 68663), (76, 68558), (78, 68552), (85, 68519), (87, 68507),

Gene: Vaishali24_101 Start: 68022, Stop: 67687, Start Num: 41

Candidate Starts for Vaishali24_101:

(Start: 27 @68079 has 3 MA's), (Start: 41 @68022 has 239 MA's), (46, 68010), (Start: 49 @67977 has 44 MA's), (53, 67941), (62, 67881), (76, 67776), (78, 67770), (85, 67737), (87, 67725),

Gene: Valjean_99 Start: 68189, Stop: 67851, Start Num: 41

Candidate Starts for Valjean_99:

(13, 68363), (Start: 41 @68189 has 239 MA's), (46, 68174), (Start: 49 @68141 has 44 MA's), (53, 68105), (62, 68045), (76, 67940), (78, 67934), (85, 67901), (87, 67889),

Gene: Vaticameos_98 Start: 66516, Stop: 66178, Start Num: 41

Candidate Starts for Vaticameos_98:

(13, 66690), (Start: 41 @66516 has 239 MA's), (46, 66501), (Start: 49 @66468 has 44 MA's), (53, 66432), (62, 66372), (76, 66267), (78, 66261), (85, 66228), (87, 66216),

Gene: Veritas_100 Start: 68119, Stop: 67784, Start Num: 41

Candidate Starts for Veritas_100:

(22, 68212), (Start: 27 @68176 has 3 MA's), (Start: 41 @68119 has 239 MA's), (59, 67990), (62, 67978), (70, 67921), (78, 67867), (80, 67858), (87, 67822),

Gene: Vic9_00084 Start: 65670, Stop: 65365, Start Num: 38

Candidate Starts for Vic9_00084:

(Start: 38 @65670 has 6 MA's), (Start: 43 @65661 has 18 MA's), (Start: 49 @65625 has 44 MA's), (56, 65583), (62, 65553), (77, 65442),

Gene: VioletZ_88 Start: 66079, Stop: 65777, Start Num: 49

Candidate Starts for VioletZ_88:

(7, 66466), (9, 66340), (Start: 36 @66136 has 1 MA's), (Start: 49 @66079 has 44 MA's), (54, 66037), (59, 66004), (62, 65992), (67, 65962), (70, 65935), (73, 65911), (76, 65878), (78, 65872), (82, 65857), (83, 65845), (85, 65839), (86, 65830),

Gene: Virapocalypse_102 Start: 68311, Stop: 67973, Start Num: 41

Candidate Starts for Virapocalypse_102:

(13, 68485), (Start: 41 @68311 has 239 MA's), (46, 68296), (Start: 49 @68263 has 44 MA's), (53, 68227), (62, 68167), (76, 68062), (78, 68056), (85, 68023), (87, 68011),

Gene: Virgeve_99 Start: 67923, Stop: 67588, Start Num: 41

Candidate Starts for Virgeve_99:

(21, 68016), (22, 68013), (23, 68010), (Start: 41 @67923 has 239 MA's), (59, 67794), (62, 67782), (70, 67725), (78, 67671), (80, 67662), (87, 67626),

Gene: Vista_100 Start: 68123, Stop: 67785, Start Num: 41

Candidate Starts for Vista_100:

(13, 68297), (Start: 41 @68123 has 239 MA's), (46, 68108), (Start: 49 @68075 has 44 MA's), (53, 68039), (62, 67979), (76, 67874), (78, 67868), (85, 67835), (87, 67823),

Gene: Vivaldi_101 Start: 68277, Stop: 67942, Start Num: 41

Candidate Starts for Vivaldi_101:

(23, 68367), (Start: 27 @68334 has 3 MA's), (Start: 41 @68277 has 239 MA's), (Start: 49 @68232 has 44 MA's), (53, 68196), (59, 68151), (62, 68139), (70, 68082), (78, 68028), (80, 68019), (87, 67983),

Gene: Vortex_99 Start: 68223, Stop: 67888, Start Num: 41

Candidate Starts for Vortex_99:

(21, 68316), (22, 68313), (23, 68310), (Start: 41 @68223 has 239 MA's), (59, 68094), (62, 68082), (70, 68025), (78, 67971), (80, 67962), (87, 67926),

Gene: Waleliano_85 Start: 65747, Stop: 65445, Start Num: 49

Candidate Starts for Waleliano_85:

(2, 66338), (7, 66134), (9, 66008), (20, 65921), (24, 65891), (26, 65876), (Start: 36 @65804 has 1 MA's), (Start: 49 @65747 has 44 MA's), (54, 65705), (59, 65672), (62, 65660), (67, 65630), (70, 65603), (73, 65579), (76, 65546), (78, 65540), (82, 65525), (83, 65513), (85, 65507), (86, 65498),

Gene: Wallhey_102 Start: 68222, Stop: 67887, Start Num: 41

Candidate Starts for Wallhey_102:

(22, 68315), (Start: 27 @68279 has 3 MA's), (Start: 41 @68222 has 239 MA's), (59, 68093), (62, 68081), (70, 68024), (78, 67970), (80, 67961), (87, 67925),

Gene: Waterdiva_102 Start: 68495, Stop: 68157, Start Num: 41

Candidate Starts for Waterdiva_102:

(13, 68669), (Start: 41 @68495 has 239 MA's), (46, 68480), (Start: 49 @68447 has 44 MA's), (53, 68411), (62, 68351), (76, 68246), (78, 68240), (85, 68207), (87, 68195),

Gene: Weher20_98 Start: 68561, Stop: 68226, Start Num: 41

Candidate Starts for Weher20_98:

(21, 68654), (22, 68651), (23, 68648), (Start: 41 @68561 has 239 MA's), (59, 68432), (62, 68420), (70, 68363), (78, 68309), (80, 68300), (87, 68264),

Gene: West99_86 Start: 65260, Stop: 65003, Start Num: 49

Candidate Starts for West99_86:

(Start: 38 @65305 has 6 MA's), (Start: 43 @65296 has 18 MA's), (Start: 49 @65260 has 44 MA's), (62, 65191),

Gene: Windsor_100 Start: 68245, Stop: 67913, Start Num: 41

Candidate Starts for Windsor_100:

(Start: 27 @68302 has 3 MA's), (Start: 41 @68245 has 239 MA's), (Start: 49 @68200 has 44 MA's), (53, 68164), (59, 68119), (62, 68107), (70, 68050), (78, 67996), (80, 67987), (87, 67951),

Gene: Wooper_82 Start: 59772, Stop: 59515, Start Num: 51

Candidate Starts for Wooper_82:

(Start: 38 @59847 has 6 MA's), (40, 59844), (48, 59808), (Start: 51 @59772 has 4 MA's), (55, 59748), (62, 59697), (79, 59586), (83, 59562),

Gene: Xavier_100 Start: 68122, Stop: 67784, Start Num: 41

Candidate Starts for Xavier_100:

(13, 68296), (Start: 41 @68122 has 239 MA's), (46, 68107), (Start: 49 @68074 has 44 MA's), (53, 68038), (62, 67978), (76, 67873), (78, 67867), (85, 67834), (87, 67822),

Gene: Xincheng_79 Start: 65877, Stop: 65590, Start Num: 49

Candidate Starts for Xincheng_79:

(9, 66138), (Start: 36 @65934 has 1 MA's), (Start: 49 @65877 has 44 MA's), (54, 65835), (59, 65802), (62, 65790), (67, 65775), (70, 65748), (76, 65691), (78, 65685), (82, 65670), (83, 65658), (85, 65652), (86, 65643),

Gene: Yago84_78 Start: 59931, Stop: 59668, Start Num: 49

Candidate Starts for Yago84_78:

(Start: 49 @59931 has 44 MA's), (82, 59727),

Gene: Yeshua_82 Start: 59748, Stop: 59491, Start Num: 51

Candidate Starts for Yeshua_82:

(Start: 38 @59823 has 6 MA's), (40, 59820), (48, 59784), (Start: 51 @59748 has 4 MA's), (55, 59724), (62, 59673), (79, 59562), (83, 59538),

Gene: Yoshand_102 Start: 68347, Stop: 68009, Start Num: 41

Candidate Starts for Yoshand_102:

(13, 68521), (Start: 41 @68347 has 239 MA's), (46, 68332), (Start: 49 @68299 has 44 MA's), (53, 68263), (62, 68203), (76, 68098), (78, 68092), (85, 68059), (87, 68047),

Gene: YouGoGlencoco_101 Start: 68237, Stop: 67899, Start Num: 41

Candidate Starts for YouGoGlencoco_101:

(13, 68411), (Start: 41 @68237 has 239 MA's), (46, 68222), (Start: 49 @68189 has 44 MA's), (53, 68153), (62, 68093), (76, 67988), (78, 67982), (85, 67949), (87, 67937),

Gene: Zaider_102 Start: 68612, Stop: 68274, Start Num: 41

Candidate Starts for Zaider_102:

(13, 68786), (Start: 41 @68612 has 239 MA's), (46, 68597), (Start: 49 @68564 has 44 MA's), (53, 68528), (62, 68468), (76, 68363), (78, 68357), (85, 68324), (87, 68312),

Gene: Zelda_101 Start: 68568, Stop: 68230, Start Num: 41

Candidate Starts for Zelda_101:

(13, 68742), (Start: 41 @68568 has 239 MA's), (46, 68553), (Start: 49 @68520 has 44 MA's), (53, 68484), (62, 68424), (76, 68319), (78, 68313), (85, 68280), (87, 68268),

Gene: Zemanar_85 Start: 65760, Stop: 65458, Start Num: 49

Candidate Starts for Zemanar_85:

(7, 66147), (9, 66021), (Start: 36 @65817 has 1 MA's), (Start: 49 @65760 has 44 MA's), (54, 65718), (59, 65685), (62, 65673), (67, 65643), (73, 65592), (76, 65559), (78, 65553), (82, 65538), (83, 65526), (85, 65520), (86, 65511),