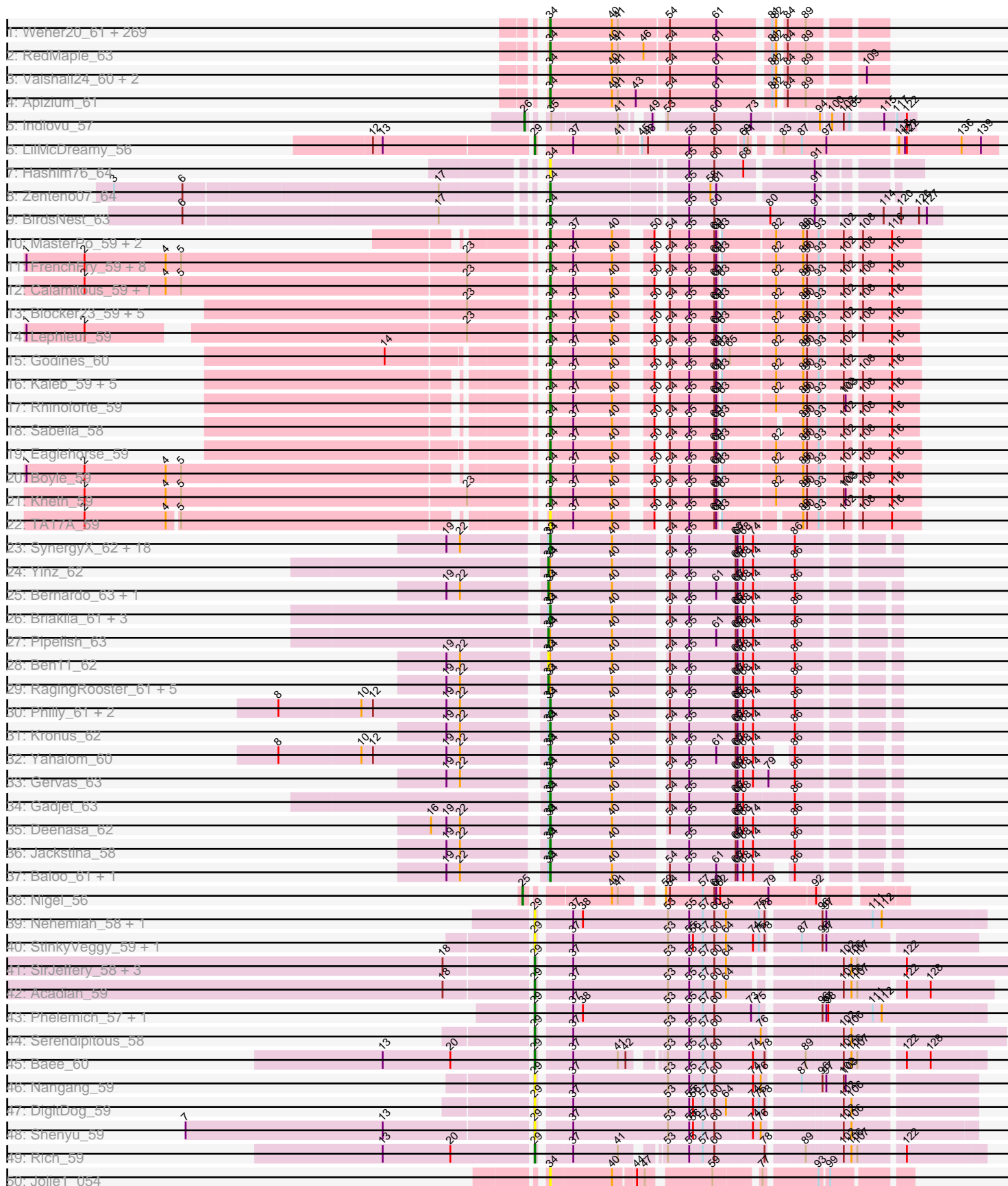
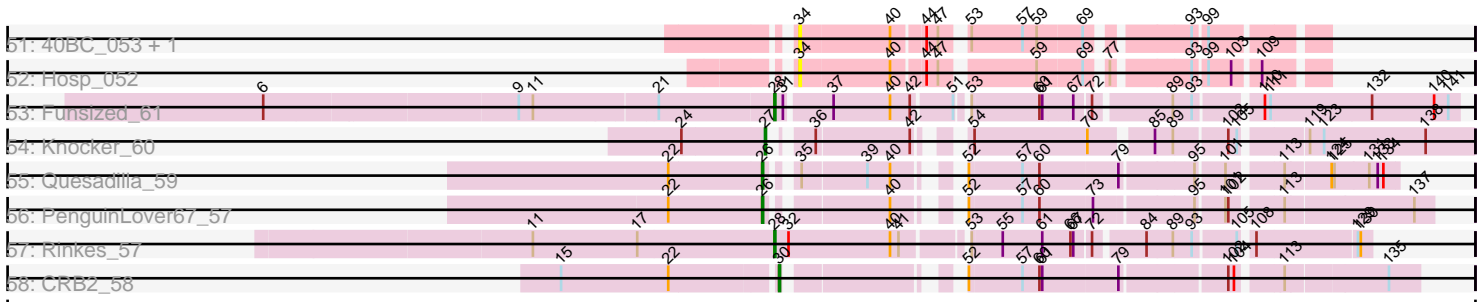


Pham 192229



Pham 192229



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 192229 Report

This analysis was run 11/02/24 on database version 579.

Pham number 192229 has 387 members, 30 are drafts.

Phages represented in each track:

- Track 1 : Weher20_61, JDog_60, Magic8_62, FriarPreacher_61, Zelda_62, Murdoc_60, DirtJuice_62, EmpTee_61, Podrick_60, Mulan_61, Pherdinand_63, Prickles_63, Soto_60, Buckeye_62, Orwigg_62, Thora_61, ImtiyazSitla_63, Altwerkus_59, Basato_62, Derpp_61, Fringe_65, Swiphy_65, Melc17_61, Zonia_63, Boehler_61, Chaelin_62, Aelin_61, Cher_61, Tomlahar_62, OSmaximus_63, ShiVal_59, PG1_62, Vortex_61, Megamind20_62, Pipsqueak_60, Pacifista_60, Chah_63, Gwilliam_63, Vivaldi_63, SDcharge11_61, Plmatters_60, Jiminy_62, Gareth_61, Serpentine_0061, Skippy_62, Nacho_0063, Iridoclysis_62, Andre_63, Nicole21_62, Numberten_61, JakeO_62, Manad_61, Simielle_61, DelRivs_60, Giraffe_62, Waterdiva_61, DoesntMatter_59, MitKao_61, Vista_61, Dione_59, Maru_61, Selr12_62, Pops_61, Chunky_60, Pinkman_61, ThreeOh3D2_63, Roy17_60, BlackStallion_63, FluffyNinja_63, Bishoperium_61, Windsor_61, Schadenfreude_61, Mcshane_60, Olive_61, Yoshand_63, Ashraf_63, UncleHowie_60, SilverBell_62, OliverWalter_60, ProfessorX_61, Eugenia_61, Oline_62, Serendipity_61, Rimu_64, Mutante_61, Inchworm_63, MiniBoss_59, Phergie_63, Gyarad_0060, Frankicide_60, Mosaic_60, LeeLot_62, KLucky39_60, Thunderbird_61, Grand2040_61, KlimbOn_61, Inverness_60, PinheadLarry_62, Suffolk_60, Kikipoo_63, Doddsville_62, Coletti_64, Lopsy_60, Sophia_60, Etaye_63, Surely_61, TyrionL_62, Chorkpop_61, Morgushi_61, Dati_61, Childish_61, Duggie_62, Virapocalypse_62, Newman_60, Crownjwl_61, Trypo_64, Hocus_61, Kailash_62, Badfish_62, Schueller_63, Squid_61, Morty_62, Mana_60, Daffy_61, Hertubise_61, QueenBeane_61, Antonia_61, Chute_63, ABU_62, Cornobble_61, Hamish_60, Kwadwo_60, Freya_59, JangoPhett_61, Longacauda_62, Virgeve_61, Lego3393_60, Toni_61, LostAndPhound_62, Horchata_60, Scrick_62, Haleema_60, Spartan300_61, Olak_60, Mesh1_63, Fang_63, AbsoluteMadLad_62, Keitherie_63, PhrankReynolds_61, Orion_63, Sigman_62, Durga_64, MelsMeow_62, Scoot17C_62, Legolas_63, Emiris_64, Colbert_60, LemonSlice_62, Phareon_60, Cobra_63, Megatron_62, GeneCoco_62, Wallhey_62, Swish_63, Quisquilliae_62, Bluephacebaby_61, IsaacEli_63, PhrodoBaggins_62, DuchessDung_63, Xavier_60, Beaglebox_61, CheetO_61, Jillium_61, LasagnaCat_63, Vaticameos_58, KingTut_54, Slatt_62, PhenghisKhan_62, Eremos_61, Solosis_60, Katniss_62, Dice_60, True_60, Harvey_60, JacAttac_63, Charles1_62, DaddyDaniels_63, Riggan_62, Veritas_63, Brilliant_64, SassyCat97_60, Lasso_62, UAch1_61, Phunky_60, Squiggle_62, Ricotta_61, Omniscient_62, AltPhacts_61, PhatCats2014_62, Phipps_61, Mecca_61, Held_61, Potter_60, Hartsy_62, Soile_62, Piglet_0061, HenryJackson_61, Fozzie_62, CamL_61, FugateOSU_62, Sheila_59, BlueHusk_63, Orfeu_60, LuckyMarjie_59, Phamished_63, Timmi_60, Mag7_62,

Lulumae_59, Banjo_60, CampRoach_63, PhatLouie_63, Kahve_61, LeiMonet_64, Tooj_60, Telesworld_59, YouGoGlencoco_62, Maskar_63, Nyala_60, Anderson_62, CharlieGBrown_62, Jiraiya_65, HSavage_60, Placalicious_62, TallGrassMM_61, HighStump_63, Cosmolli16_62, Labeouficaum_62, Lulwa_59, Phleuron_62, Kwksand96_62, MichaelPhcott_62, Haimas_60, MRabcd_61, Cannibal_61, Gophee_63, Puhltonio_61, Adriana_63, Roliet_59, Dingo_60, Samaymay_61, Kimbrough_62, Struggle_62, Daka_64, Hetaeria_61, Usavi_61, Oosterbaan_61, Lumine_62, Craff_64, Burr_61, Kloppinator_62, Matalotodo_61, Mikota_60, KingVeVeVe_60, Zaider_62, Valjean_61, TomBombadil_61, Roscoe_62, MrPhizzler_62, BatteryCK_62, DonSanchon_59

- Track 2 : RedMaple_63
- Track 3 : Vaishali24_60, Robyn_61, Carthage_60
- Track 4 : Apizium_61
- Track 5 : Indlovu_57
- Track 6 : LilMcDreamy_56
- Track 7 : Hashim76_64
- Track 8 : Zenteno07_64
- Track 9 : BirdsNest_63
- Track 10 : MasterPo_59, Laurie_59, Vic9_60
- Track 11 : FrenchFry_59, Bananafish_59, Holeinone_59, Lars_59, Opia_59, Glass_59, Arbiter_58, LizLemon_59, Ares_59
- Track 12 : Calamitous_59, Qyrzula_54
- Track 13 : Blocker23_59, Coffee_59, West99_59, Phantasmagoria_59, Faze9_58, Allegro_59
- Track 14 : Lephleur_59
- Track 15 : Godines_60
- Track 16 : Kaleb_59, Brownie5_59, Tinciduntolum_60, Tres_59, Rosebush_58, Hedgerow_59
- Track 17 : Rhinoforte_59
- Track 18 : Sabella_58
- Track 19 : Eaglehorse_59
- Track 20 : Boyle_59
- Track 21 : Kheth_59
- Track 22 : TA17A_59
- Track 23 : SynergyX_62, MmasiCarm_63, Kamiyu_62, Athena_64, ChaChing_62, Neos5_61, GlenHope_63, SlippinJimmy_64, Marley1013_62, Akoma_62, Daisy_61, Rita1961_63, HarveySr_61, Nozo_62, Corofin_62, Tydolla_59, Devonte_61, Chandler_62, OrangeOswald_62
- Track 24 : Yinz_62
- Track 25 : Bernardo_63, LestyG_60
- Track 26 : Briakila_61, Phayeta_64, Casbah_62, Halfpint_61
- Track 27 : Pipefish_63
- Track 28 : Ben11_62
- Track 29 : RagingRooster_61, RomaT_62, Audrey_62, Mortcellus_62, Heathcliff_62, Abinghost_62
- Track 30 : Philly_61, Obutu_63, Compostia_62
- Track 31 : Kronus_62
- Track 32 : Yahalom_60
- Track 33 : Gervas_63
- Track 34 : Gadget_63
- Track 35 : Deenasa_62
- Track 36 : Jackstina_58
- Track 37 : Baloo_61, Phlyer_62

- Track 38 : Nigel_56
- Track 39 : Nehemiah_58, Mysterious_59
- Track 40 : StinkyVeggy_59, KarasumaRum_59
- Track 41 : SirJeffery_58, Donny_60, Suigeneris_60, EastView9101_58
- Track 42 : Acadian_59
- Track 43 : Phelemich_57, Reprobate_58
- Track 44 : Serendipitous_58
- Track 45 : Bae_60
- Track 46 : Nangang_59
- Track 47 : DigitDog_59
- Track 48 : Shenyu_59
- Track 49 : Rich_59
- Track 50 : Jolie1_054
- Track 51 : 40BC_053, 39HC_053
- Track 52 : Hosp_052
- Track 53 : Funsized_61
- Track 54 : Knocker_60
- Track 55 : Quesadilla_59
- Track 56 : PenguinLover67_57
- Track 57 : Rinkes_57
- Track 58 : CRB2_58

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

The start number called the most often in the published annotations is 34, it was called in 329 of the 357 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 39HC_053, 40BC_053, ABU_62, AbsoluteMadLad_62, Adriana_63, Aelin_61, Akoma_62, Allegro_59, AltPhacts_61, Altwerkus_59, Anderson_62, Andre_63, Antonia_61, Apizium_61, Arbiter_58, Ares_59, Ashraf_63, Athena_64, Badfish_62, Baloo_61, Bananafish_59, Banjo_60, Basato_62, BatteryCK_62, Beaglebox_61, BirdsNest_63, Bishoperium_61, BlackStallion_63, Blocker23_59, BlueHusk_63, Bluephacebaby_61, Boehler_61, Boyle_59, Briakila_61, Brilliant_64, Brownie5_59, Buckeye_62, Burr_61, Calamitous_59, CamL_61, CampRoach_63, Cannibal_61, Carthage_60, Casbah_62, ChaChing_62, Chaelin_62, Chah_63, Chandler_62, Charles1_62, CharlieGBrown_62, CheetO_61, Cher_61, Childish_61, Chorkpop_61, Chunky_60, Chute_63, Cobra_63, Coffee_59, Colbert_60, Coletti_64, Compostia_62, Cornobble_61, Corofin_62, Cosmolli16_62, Craff_64, Crownjwl_61, DaddyDaniels_63, Daffy_61, Daisy_61, Daka_64, Dati_61, Deenasa_62, DelRivs_60, Derpp_61, Devonte_61, Dice_60, Dingo_60, Dione_59, DirtJuice_62, Doddsville_62, DoesntMatter_59, DonSanchon_59, DuchessDung_63, Duggie_62, Durga_64, Eaglehorse_59, Emiris_64, EmpTee_61, Eremos_61, Etaye_63, Eugenia_61, Fang_63, Faze9_58, FluffyNinja_63, Fozzie_62, Frankicide_60, FrenchFry_59, Freya_59, FriarPreacher_61, Fringe_65, FugateOSU_62, Gadget_63, Gareth_61, GeneCoco_62, Gervas_63, Giraffe_62, Glass_59, GlenHope_63, Godines_60, Gophee_63, Grand2040_61, Gwilliam_63, Gyarad_0060, HSavage_60, Haimas_60, Haleema_60, Halfpint_61, Hamish_60, Hartsy_62, HarveySr_61, Harvey_60, Hashim76_64, Hedgerow_59, Held_61, HenryJackson_61, Hertubise_61, Hetaeria_61, HighStump_63, Hocus_61, Holeinone_59, Horchata_60, Hosp_052,

ImtiyazSitla_63, Inchworm_63, Inverness_60, Iridoclysis_62, IsaacEli_63, JDog_60, JacAttac_63, Jackstina_58, JakeO_62, JangoPhett_61, Jillium_61, Jiminy_62, Jiraiya_65, Jolie1_054, KLucky39_60, Kahve_61, Kailash_62, Kaleb_59, Kamiyu_62, Katniss_62, Keitherie_63, Kheth_59, Kikipoo_63, Kimbrough_62, KingTut_54, KingVeVeVe_60, KlimbOn_61, Kloppinator_62, Kronus_62, Kwadwo_60, Kwksand96_62, Labeouficaum_62, Lars_59, LasagnaCat_63, Lasso_62, Laurie_59, LeeLot_62, Lego3393_60, Legolas_63, LeiMonet_64, LemonSlice_62, Lephleur_59, LizLemon_59, Longacauda_62, Lopsy_60, LostAndPhound_62, LuckyMarjie_59, Lulumae_59, Lulwa_59, Lumine_62, MRabcd_61, Mag7_62, Magic8_62, Mana_60, Manad_61, Marley1013_62, Maru_61, Maskar_63, MasterPo_59, Matalotodo_61, Mcshane_60, Mecca_61, Megamind20_62, Megatron_62, Melc17_61, MelsMeow_62, Mesh1_63, MichaelPhcott_62, Mikota_60, MiniBoss_59, MitKao_61, MmasiCarm_63, Morgushi_61, Morty_62, Mosaic_60, MrPhizzler_62, Mulan_61, Murdoc_60, Mutante_61, Nacho_0063, Neos5_61, Newman_60, Nicole21_62, Nozo_62, Numberten_61, Nyala_60, OSmaximus_63, Obutu_63, Olak_60, Oline_62, Olive_61, OliverWalter_60, Omniscient_62, Oosterbaan_61, Opia_59, OrangeOswald_62, Orfeu_60, Orion_63, Orwigg_62, PG1_62, Pacifista_60, Phamished_63, Phantasmagoria_59, Phareon_60, PhatCats2014_62, PhatLouie_63, Phayeta_64, PhenghisKhan_62, Pherdinand_63, Phergie_63, Philly_61, Phipps_61, Phleuron_62, Phlyer_62, PhrankReynolds_61, PhrodoBaggins_62, Phunky_60, Piglet_0061, PinheadLarry_62, Pinkman_61, Pipsqueak_60, Placalicious_62, Plmatters_60, Podrick_60, Pops_61, Potter_60, Prickles_63, ProfessorX_61, Puhltonio_61, QueenBeane_61, Quisquilliae_62, Qyrzula_54, RedMaple_63, Rhinoforte_59, Ricotta_61, Riggan_62, Rimu_64, Rita1961_63, Robyn_61, Roliet_59, Roscoe_62, Rosebush_58, Roy17_60, SDcharge11_61, Sabella_58, Samaymay_61, SassyCat97_60, Schadenfreude_61, Schueller_63, Scoot17C_62, Scrick_62, Selr12_62, Serendipity_61, Serpentine_0061, Sheila_59, ShiVal_59, Sigman_62, SilverBell_62, Simielle_61, Skippy_62, Slatt_62, SlippinJimmy_64, Soile_62, Solosis_60, Sophia_60, Soto_60, Spartan300_61, Squid_61, Squiggle_62, Struggle_62, Suffolk_60, Surely_61, Swiphy_65, Swish_63, SynergyX_62, TA17A_59, TallGrassMM_61, Telesworld_59, Thora_61, ThreeOh3D2_63, Thunderbird_61, Timmi_60, Tinciduntolum_60, TomBombadil_61, Tomlarah_62, Toni_61, Tooj_60, Tres_59, True_60, Trypo_64, Tydolla_59, TyrionL_62, UAch1_61, UncleHowie_60, Usavi_61, Vaishali24_60, Valjean_61, Vaticameos_58, Veritas_63, Vic9_60, Virapocalypse_62, Virgeve_61, Vista_61, Vivaldi_63, Vortex_61, Wallhey_62, Waterdiva_61, Weher20_61, West99_59, Windsor_61, Xavier_60, Yahalom_60, Yoshand_63, YouGoGlencoco_62, Zaider_62, Zelda_62, Zenteno07_64, Zonia_63,

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

- Abinghost_62, Audrey_62, Ben11_62, Bernardo_63, Heathcliff_62, LestyG_60, Mortcellus_62, Pipefish_63, RagingRooster_61, RomaT_62, Yinz_62,

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

- Acadian_59, Bae_60, CRB2_58, DigitDog_59, Donny_60, EastView9101_58, Funsized_61, Indlovu_57, KarasumaRum_59, Knocker_60, LilMcDreamy_56, Mysterious_59, Nangang_59, Nehemiah_58, Nigel_56, PenguinLover67_57, Phelemich_57, Quesadilla_59, Reprobate_58, Rich_59, Rinkes_57, Serendipitous_58, Shenyu_59, SirJeffery_58, StinkyVeggy_59, Suigeneris_60,

Summary by start number:

Start 25:

- Found in 1 of 387 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 357
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Nigel_56 (B4),

Start 26:

- Found in 3 of 387 (0.8%) of genes in pham
- Manual Annotations of this start: 3 of 357
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Indlovu_57 (B11), PenguinLover67_57 (B9), Quesadilla_59 (B9),

Start 27:

- Found in 1 of 387 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 357
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Knocker_60 (B9),

Start 28:

- Found in 2 of 387 (0.5%) of genes in pham
- Manual Annotations of this start: 2 of 357
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Funsized_61 (B9), Rinkes_57 (B9),

Start 29:

- Found in 18 of 387 (4.7%) of genes in pham
- Manual Annotations of this start: 10 of 357
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Acadian_59 (B5), Bae_60 (B5), DigitDog_59 (B5), Donny_60 (B5), EastView9101_58 (B5), KarasumaRum_59 (B5), LilMcDreamy_56 (B12), Mysterious_59 (B5), Nangang_59 (B5), Nehemiah_58 (B5), Phelemich_57 (B5), Reprobate_58 (B5), Rich_59 (B5), Serendipitous_58 (B5), Shenyu_59 (B5), SirJeffery_58 (B5), StinkyVeggy_59 (B5), Suigeneris_60 (B5),

Start 30:

- Found in 1 of 387 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 357
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CRB2_58 (B9),

Start 33:

- Found in 45 of 387 (11.6%) of genes in pham
- Manual Annotations of this start: 10 of 357
- Called 24.4% of time when present
- Phage (with cluster) where this start called: Abinghost_62 (B3), Audrey_62 (B3), Ben11_62 (B3), Bernardo_63 (B3), Heathcliff_62 (B3), LestyG_60 (B3), Mortcellus_62 (B3), Pipefish_63 (B3), RagingRooster_61 (B3), RomaT_62 (B3), Yinz_62 (B3),

Start 34:

- Found in 361 of 387 (93.3%) of genes in pham
- Manual Annotations of this start: 329 of 357
- Called 97.0% of time when present

• Phage (with cluster) where this start called: 39HC_053 (B6), 40BC_053 (B6), ABU_62 (B1), AbsoluteMadLad_62 (B1), Adriana_63 (B1), Aelin_61 (B1), Akoma_62 (B3), Allegro_59 (B2), AltPhacts_61 (B1), Altwerkus_59 (B1), Anderson_62 (B1), Andre_63 (B1), Antonia_61 (B1), Apizium_61 (B1), Arbiter_58 (B2), Ares_59 (B2), Ashraf_63 (B1), Athena_64 (B3), Badfish_62 (B1), Baloo_61 (B3), Bananafish_59 (B2), Banjo_60 (B1), Basato_62 (B1), BatteryCK_62 (B1), Beaglebox_61 (B1), BirdsNest_63 (B13), Bishoperium_61 (B1), BlackStallion_63 (B1), Blocker23_59 (B2), BlueHusk_63 (B1), Bluephacebaby_61 (B1), Boehler_61 (B1), Boyle_59 (B2), Briakila_61 (B3), Brilliant_64 (B1), Brownie5_59 (B2), Buckeye_62 (B1), Burr_61 (B1), Calamitous_59 (B2), CamL_61 (B1), CampRoach_63 (B1), Cannibal_61 (B1), Carthage_60 (B1), Casbah_62 (B3), ChaChing_62 (B3), Chaelin_62 (B1), Chah_63 (B1), Chandler_62 (B3), Charles1_62 (B1), CharlieGBrown_62 (B1), CheetO_61 (B1), Cher_61 (B1), Childish_61 (B1), Chorkpop_61 (B1), Chunky_60 (B1), Chute_63 (B1), Cobra_63 (B1), Coffee_59 (B2), Colbert_60 (B1), Coletti_64 (B1), Compostia_62 (B3), Cornobble_61 (B1), Corofin_62 (B3), Cosmolli16_62 (B1), Craff_64 (B1), Crownjwl_61 (B1), DaddyDaniels_63 (B1), Daffy_61 (B1), Daisy_61 (B3), Daka_64 (B1), Dati_61 (B1), Deenasa_62 (B3), DelRivs_60 (B1), Derpp_61 (B1), Devonte_61 (B3), Dice_60 (B1), Dingo_60 (B1), Dione_59 (B1), DirtJuice_62 (B1), Doddsville_62 (B1), DoesntMatter_59 (B1), DonSanchon_59 (B1), DuchessDung_63 (B1), Duggie_62 (B1), Durga_64 (B1), Eaglehorse_59 (B2), Emiris_64 (B1), EmpTee_61 (B1), Eremos_61 (B1), Etaye_63 (B1), Eugenia_61 (B1), Fang_63 (B1), Faze9_58 (B2), FluffyNinja_63 (B1), Fozzie_62 (B1), Frankicide_60 (B1), FrenchFry_59 (B2), Freya_59 (B1), FriarPreacher_61 (B1), Fringe_65 (B1), FugateOSU_62 (B1), Gadget_63 (B3), Gareth_61 (B1), GeneCoco_62 (B1), Gervas_63 (B3), Giraffe_62 (B1), Glass_59 (B2), GlenHope_63 (B3), Godines_60 (B2), Gophee_63 (B1), Grand2040_61 (B1), Gwilliam_63 (B1), Gyarad_0060 (B1), HSavage_60 (B1), Haimas_60 (B1), Haleema_60 (B1), Halfpint_61 (B3), Hamish_60 (B1), Hartsy_62 (B1), HarveySr_61 (B3), Harvey_60 (B1), Hashim76_64 (B13), Hedgerow_59 (B2), Held_61 (B1), HenryJackson_61 (B1), Hertubise_61 (B1), Hetaeria_61 (B1), HighStump_63 (B1), Hocus_61 (B1), Holeinone_59 (B2), Horchata_60 (B1), Hosp_052 (B6), ImtiyazSitla_63 (B1), Inchworm_63 (B1), Inverness_60 (B1), Iridoclysis_62 (B1), IsaacEli_63 (B1), JDog_60 (B1), JacAttac_63 (B1), Jackstina_58 (B3), JakeO_62 (B1), JangoPhett_61 (B1), Jillium_61 (B1), Jiminy_62 (B1), Jiraiya_65 (B1), Jolie1_054 (B6), KLUcky39_60 (B1), Kahve_61 (B1), Kailash_62 (B1), Kaleb_59 (B2), Kamiyu_62 (B3), Katniss_62 (B1), Keitherie_63 (B1), Kheth_59 (B2), Kikipoo_63 (B1), Kimbrough_62 (B1), KingTut_54 (B1), KingVeVeVe_60 (B1), KlimbOn_61 (B1), Kloppinator_62 (B1), Kronus_62 (B3), Kwadwo_60 (B1), Kwksand96_62 (B1), Labeouficaum_62 (B1), Lars_59 (B2), LasagnaCat_63 (B1), Lasso_62 (B1), Laurie_59 (B2), LeeLot_62 (B1), Lego3393_60 (B1), Legolas_63 (B1), LeiMonet_64 (B1), LemonSlice_62 (B1), Lephleur_59 (B2), LizLemon_59 (B2), Longacauda_62 (B1), Lopsy_60 (B1), LostAndPhound_62 (B1), LuckyMarjie_59 (B1), Lulumae_59 (B1), Lulwa_59 (B1), Lumine_62 (B1), MRabcd_61 (B1), Mag7_62 (B1), Magic8_62 (B1), Mana_60 (B1), Manad_61 (B1), Marley1013_62 (B3), Maru_61 (B1), Maskar_63 (B1), MasterPo_59 (B2), Matalotodo_61 (B1), Mcshane_60 (B1), Mecca_61 (B1), Megamind20_62 (B1), Megatron_62 (B1), Melc17_61 (B1), MelsMeow_62 (B1), Mesh1_63 (B1), MichaelPhcott_62 (B1), Mikota_60 (B1), MiniBoss_59 (B1), MitKao_61 (B1), MmasiCarm_63 (B3), Morgushi_61 (B1), Morty_62 (B1), Mosaic_60 (B1), MrPhizzler_62 (B1), Mulan_61 (B1), Murdoc_60 (B1), Mutante_61 (B1), Nacho_0063 (B1), Neos5_61 (B3), Newman_60 (B1), Nicole21_62 (B1), Nozo_62 (B3), Numberten_61 (B1), Nyala_60 (B1), OSmaximus_63 (B1), Obutu_63 (B3), Olak_60 (B1), Oline_62 (B1), Olive_61 (B1), OliverWalter_60 (B1), Omniscient_62 (B1), Oosterbaan_61 (B1), Opia_59 (B2), OrangeOswald_62 (B3), Orfeu_60 (B1),

Orion_63 (B1), Orwigg_62 (B1), PG1_62 (B1), Pacifista_60 (B1), Phamished_63 (B1), Phantasmagoria_59 (B2), Phareon_60 (B1), PhatCats2014_62 (B1), PhatLouie_63 (B1), Phayeta_64 (B3), Phenghiskhan_62 (B1), Pherdinand_63 (B1), Phergie_63 (B1), Philly_61 (B3), Phipps_61 (B1), Phleuron_62 (B1), Phlyer_62 (B3), PhrankReynolds_61 (B1), PhrodoBaggins_62 (B1), Phunky_60 (B1), Piglet_0061 (B1), PinheadLarry_62 (B1), Pinkman_61 (B1), Pipsqueak_60 (B1), Placalicious_62 (B1), Plmatters_60 (B1), Podrick_60 (B1), Pops_61 (B1), Potter_60 (B1), Prickles_63 (B1), ProfessorX_61 (B1), Puhltonio_61 (B1), QueenBeane_61 (B1), Quisquilliae_62 (B1), Qyrzula_54 (B2), RedMaple_63 (B1), Rhinoforte_59 (B2), Ricotta_61 (B1), Riggan_62 (B1), Rimu_64 (B1), Rita1961_63 (B3), Robyn_61 (B1), Roliet_59 (B1), Roscoe_62 (B1), Rosebush_58 (B2), Roy17_60 (B1), SDcharge11_61 (B1), Sabella_58 (B2), Samaymay_61 (B1), SassyCat97_60 (B1), Schadenfreude_61 (B1), Schueller_63 (B1), Scoot17C_62 (B1), Scrick_62 (B1), Selr12_62 (B1), Serendipity_61 (B1), Serpentine_0061 (B1), Sheila_59 (B1), ShiVal_59 (B1), Sigman_62 (B1), SilverBell_62 (B1), Simielle_61 (B1), Skippy_62 (B1), Slatt_62 (B1), SlippinJimmy_64 (B3), Soile_62 (B1), Solosis_60 (B1), Sophia_60 (B1), Soto_60 (B1), Spartan300_61 (B1), Squid_61 (B1), Squiggle_62 (B1), Struggle_62 (B1), Suffolk_60 (B1), Surely_61 (B1), Swiphy_65 (B1), Swish_63 (B1), SynergyX_62 (B3), TA17A_59 (B2), TallGrassMM_61 (B1), Telesworld_59 (B1), Thora_61 (B1), ThreeOh3D2_63 (B1), Thunderbird_61 (B1), Timmi_60 (B1), Tinciduntolum_60 (B2), TomBombadil_61 (B1), Tomlarah_62 (B1), Toni_61 (B1), Tooj_60 (B1), Tres_59 (B2), True_60 (B1), Trypo_64 (B1), Tydolla_59 (B3), TyrionL_62 (B1), UAch1_61 (B1), UncleHowie_60 (B1), Usavi_61 (B1), Vaishali24_60 (B1), Valjean_61 (B1), Vaticameos_58 (B1), Veritas_63 (B1), Vic9_60 (B2), Virapocalypse_62 (B1), Virgeve_61 (B1), Vista_61 (B1), Vivaldi_63 (B1), Vortex_61 (B1), Wallhey_62 (B1), Waterdiva_61 (B1), Weher20_61 (B1), West99_59 (B2), Windsor_61 (B1), Xavier_60 (B1), Yahalom_60 (B3), Yoshand_63 (B1), YouGoGlencoco_62 (B1), Zaider_62 (B1), Zelda_62 (B1), Zenteno07_64 (B13), Zonia_63 (B1),

Summary by clusters:

There are 10 clusters represented in this pham: B11, B4, B5, B6, B12, B1, B2, B3, B9, B13,

Info for manual annotations of cluster B1:

- Start number 34 was manually annotated 263 times for cluster B1.

Info for manual annotations of cluster B11:

- Start number 26 was manually annotated 1 time for cluster B11.

Info for manual annotations of cluster B12:

- Start number 29 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B13:

- Start number 34 was manually annotated 2 times for cluster B13.

Info for manual annotations of cluster B2:

- Start number 34 was manually annotated 31 times for cluster B2.

Info for manual annotations of cluster B3:

- Start number 33 was manually annotated 10 times for cluster B3.
- Start number 34 was manually annotated 33 times for cluster B3.

Info for manual annotations of cluster B4:

- Start number 25 was manually annotated 1 time for cluster B4.

Info for manual annotations of cluster B5:

- Start number 29 was manually annotated 9 times for cluster B5.

Info for manual annotations of cluster B9:

- Start number 26 was manually annotated 2 times for cluster B9.
- Start number 27 was manually annotated 1 time for cluster B9.
- Start number 28 was manually annotated 2 times for cluster B9.
- Start number 30 was manually annotated 1 time for cluster B9.

Gene Information:

Gene: 39HC_053 Start: 53120, Stop: 52647, Start Num: 34

Candidate Starts for 39HC_053:

(Start: 34 @53120 has 329 MA's), (40, 53027), (44, 52997), (47, 52985), (53, 52967), (57, 52913), (59, 52898), (69, 52853), (93, 52766), (99, 52754),

Gene: 40BC_053 Start: 53120, Stop: 52647, Start Num: 34

Candidate Starts for 40BC_053:

(Start: 34 @53120 has 329 MA's), (40, 53027), (44, 52997), (47, 52985), (53, 52967), (57, 52913), (59, 52898), (69, 52853), (93, 52766), (99, 52754),

Gene: ABU_62 Start: 54987, Stop: 54529, Start Num: 34

Candidate Starts for ABU_62:

(Start: 34 @54987 has 329 MA's), (40, 54891), (41, 54882), (54, 54807), (61, 54735), (81, 54669), (82, 54663), (84, 54657), (89, 54630),

Gene: Abinghost_62 Start: 54965, Stop: 54486, Start Num: 33

Candidate Starts for Abinghost_62:

(19, 55097), (22, 55076), (Start: 33 @54965 has 10 MA's), (Start: 34 @54962 has 329 MA's), (40, 54866), (54, 54800), (55, 54770), (66, 54698), (67, 54695), (68, 54686), (74, 54671), (86, 54614),

Gene: AbsoluteMadLad_62 Start: 54941, Stop: 54483, Start Num: 34

Candidate Starts for AbsoluteMadLad_62:

(Start: 34 @54941 has 329 MA's), (40, 54845), (41, 54836), (54, 54761), (61, 54689), (81, 54623), (82, 54617), (84, 54611), (89, 54584),

Gene: Acadian_59 Start: 55108, Stop: 54467, Start Num: 29

Candidate Starts for Acadian_59:

(18, 55234), (Start: 29 @55108 has 10 MA's), (37, 55066), (53, 54919), (55, 54886), (57, 54865), (60, 54847), (64, 54829), (102, 54682), (106, 54670), (107, 54661), (122, 54598), (128, 54562),

Gene: Adriana_63 Start: 55568, Stop: 55110, Start Num: 34

Candidate Starts for Adriana_63:

(Start: 34 @55568 has 329 MA's), (40, 55472), (41, 55463), (54, 55388), (61, 55316), (81, 55250), (82, 55244), (84, 55238), (89, 55211),

Gene: Aelin_61 Start: 54505, Stop: 54047, Start Num: 34

Candidate Starts for Aelin_61:

(Start: 34 @54505 has 329 MA's), (40, 54409), (41, 54400), (54, 54325), (61, 54253), (81, 54187), (82, 54181), (84, 54175), (89, 54148),

Gene: Akoma_62 Start: 55010, Stop: 54534, Start Num: 34

Candidate Starts for Akoma_62:

(19, 55145), (22, 55124), (Start: 33 @55013 has 10 MA's), (Start: 34 @55010 has 329 MA's), (40, 54914), (54, 54848), (55, 54818), (66, 54746), (67, 54743), (68, 54734), (74, 54719), (86, 54662),

Gene: Allegro_59 Start: 53342, Stop: 52851, Start Num: 34

Candidate Starts for Allegro_59:

(23, 53444), (Start: 34 @53342 has 329 MA's), (37, 53309), (40, 53249), (50, 53207), (54, 53204), (55, 53174), (60, 53135), (61, 53132), (63, 53129), (82, 53054), (88, 53015), (90, 53009), (93, 52991), (102, 52958), (108, 52940), (116, 52895),

Gene: AltPhacts_61 Start: 54054, Stop: 53596, Start Num: 34

Candidate Starts for AltPhacts_61:

(Start: 34 @54054 has 329 MA's), (40, 53958), (41, 53949), (54, 53874), (61, 53802), (81, 53736), (82, 53730), (84, 53724), (89, 53697),

Gene: Altwerkus_59 Start: 54151, Stop: 53693, Start Num: 34

Candidate Starts for Altwerkus_59:

(Start: 34 @54151 has 329 MA's), (40, 54055), (41, 54046), (54, 53971), (61, 53899), (81, 53833), (82, 53827), (84, 53821), (89, 53794),

Gene: Anderson_62 Start: 54723, Stop: 54265, Start Num: 34

Candidate Starts for Anderson_62:

(Start: 34 @54723 has 329 MA's), (40, 54627), (41, 54618), (54, 54543), (61, 54471), (81, 54405), (82, 54399), (84, 54393), (89, 54366),

Gene: Andre_63 Start: 54899, Stop: 54441, Start Num: 34

Candidate Starts for Andre_63:

(Start: 34 @54899 has 329 MA's), (40, 54803), (41, 54794), (54, 54719), (61, 54647), (81, 54581), (82, 54575), (84, 54569), (89, 54542),

Gene: Antonia_61 Start: 54505, Stop: 54047, Start Num: 34

Candidate Starts for Antonia_61:

(Start: 34 @54505 has 329 MA's), (40, 54409), (41, 54400), (54, 54325), (61, 54253), (81, 54187), (82, 54181), (84, 54175), (89, 54148),

Gene: Apizium_61 Start: 54172, Stop: 53708, Start Num: 34

Candidate Starts for Apizium_61:

(Start: 34 @54172 has 329 MA's), (40, 54076), (41, 54067), (43, 54040), (54, 53992), (61, 53920), (81, 53854), (82, 53848), (84, 53842), (89, 53815),

Gene: Arbitr_58 Start: 53454, Stop: 52963, Start Num: 34

Candidate Starts for Arbitr_58:

(1, 54234), (2, 54144), (4, 54018), (5, 53994), (23, 53556), (Start: 34 @53454 has 329 MA's), (37, 53421), (40, 53361), (50, 53319), (54, 53316), (55, 53286), (60, 53247), (61, 53244), (63, 53241), (82, 53166), (88, 53127), (90, 53121), (93, 53103), (102, 53070), (108, 53052), (116, 53007),

Gene: Ares_59 Start: 53423, Stop: 52935, Start Num: 34

Candidate Starts for Ares_59:

(1, 54203), (2, 54113), (4, 53987), (5, 53963), (23, 53525), (Start: 34 @53423 has 329 MA's), (37, 53390), (40, 53330), (50, 53288), (54, 53285), (55, 53255), (60, 53216), (61, 53213), (63, 53210), (82, 53135), (88, 53096), (90, 53090), (93, 53072), (102, 53039), (108, 53021), (116, 52976),

Gene: Ashraf_63 Start: 54718, Stop: 54254, Start Num: 34

Candidate Starts for Ashraf_63:

(Start: 34 @54718 has 329 MA's), (40, 54622), (41, 54613), (54, 54538), (61, 54466), (81, 54400), (82, 54394), (84, 54388), (89, 54361),

Gene: Athena_64 Start: 55745, Stop: 55269, Start Num: 34

Candidate Starts for Athena_64:

(19, 55880), (22, 55859), (Start: 33 @55748 has 10 MA's), (Start: 34 @55745 has 329 MA's), (40, 55649), (54, 55583), (55, 55553), (66, 55481), (67, 55478), (68, 55469), (74, 55454), (86, 55397),

Gene: Audrey_62 Start: 55004, Stop: 54525, Start Num: 33

Candidate Starts for Audrey_62:

(19, 55136), (22, 55115), (Start: 33 @55004 has 10 MA's), (Start: 34 @55001 has 329 MA's), (40, 54905), (54, 54839), (55, 54809), (66, 54737), (67, 54734), (68, 54725), (74, 54710), (86, 54653),

Gene: Badfish_62 Start: 55009, Stop: 54551, Start Num: 34

Candidate Starts for Badfish_62:

(Start: 34 @55009 has 329 MA's), (40, 54913), (41, 54904), (54, 54829), (61, 54757), (81, 54691), (82, 54685), (84, 54679), (89, 54652),

Gene: Bae_60 Start: 56166, Stop: 55558, Start Num: 29

Candidate Starts for Bae_60:

(13, 56388), (20, 56283), (Start: 29 @56166 has 10 MA's), (37, 56124), (41, 56055), (42, 56043), (53, 56007), (55, 55977), (57, 55956), (60, 55938), (74, 55881), (78, 55863), (89, 55812), (102, 55761), (106, 55749), (107, 55740), (122, 55677), (128, 55641),

Gene: Baloo_61 Start: 54834, Stop: 54385, Start Num: 34

Candidate Starts for Baloo_61:

(19, 54969), (22, 54948), (Start: 33 @54837 has 10 MA's), (Start: 34 @54834 has 329 MA's), (40, 54738), (54, 54672), (55, 54642), (61, 54600), (66, 54570), (67, 54567), (68, 54558), (74, 54543), (86, 54510),

Gene: Bananafish_59 Start: 53354, Stop: 52863, Start Num: 34

Candidate Starts for Bananafish_59:

(1, 54134), (2, 54044), (4, 53918), (5, 53894), (23, 53456), (Start: 34 @53354 has 329 MA's), (37, 53321), (40, 53261), (50, 53219), (54, 53216), (55, 53186), (60, 53147), (61, 53144), (63, 53141), (82, 53066), (88, 53027), (90, 53021), (93, 53003), (102, 52970), (108, 52952), (116, 52907),

Gene: Banjo_60 Start: 54498, Stop: 54040, Start Num: 34

Candidate Starts for Banjo_60:

(Start: 34 @54498 has 329 MA's), (40, 54402), (41, 54393), (54, 54318), (61, 54246), (81, 54180), (82, 54174), (84, 54168), (89, 54141),

Gene: Basato_62 Start: 54772, Stop: 54314, Start Num: 34

Candidate Starts for Basato_62:

(Start: 34 @54772 has 329 MA's), (40, 54676), (41, 54667), (54, 54592), (61, 54520), (81, 54454), (82, 54448), (84, 54442), (89, 54415),

Gene: BatteryCK_62 Start: 54654, Stop: 54190, Start Num: 34

Candidate Starts for BatteryCK_62:

(Start: 34 @54654 has 329 MA's), (40, 54558), (41, 54549), (54, 54474), (61, 54402), (81, 54336), (82, 54330), (84, 54324), (89, 54297),

Gene: Beaglebox_61 Start: 54562, Stop: 54104, Start Num: 34

Candidate Starts for Beaglebox_61:

(Start: 34 @54562 has 329 MA's), (40, 54466), (41, 54457), (54, 54382), (61, 54310), (81, 54244), (82, 54238), (84, 54232), (89, 54205),

Gene: Ben11_62 Start: 55219, Stop: 54740, Start Num: 33

Candidate Starts for Ben11_62:

(19, 55354), (22, 55333), (Start: 33 @55219 has 10 MA's), (Start: 34 @55216 has 329 MA's), (40, 55120), (54, 55054), (55, 55024), (66, 54952), (67, 54949), (68, 54940), (74, 54925), (86, 54868),

Gene: Bernardo_63 Start: 55359, Stop: 54877, Start Num: 33

Candidate Starts for Bernardo_63:

(19, 55491), (22, 55470), (Start: 33 @55359 has 10 MA's), (Start: 34 @55356 has 329 MA's), (40, 55260), (54, 55194), (55, 55164), (61, 55122), (66, 55092), (67, 55089), (68, 55080), (74, 55065), (86, 55005),

Gene: BirdsNest_63 Start: 54973, Stop: 54419, Start Num: 34

Candidate Starts for BirdsNest_63:

(6, 55486), (17, 55102), (Start: 34 @54973 has 329 MA's), (55, 54775), (60, 54736), (80, 54652), (91, 54586), (114, 54508), (120, 54481), (126, 54454), (127, 54442),

Gene: Bishoperium_61 Start: 55037, Stop: 54579, Start Num: 34

Candidate Starts for Bishoperium_61:

(Start: 34 @55037 has 329 MA's), (40, 54941), (41, 54932), (54, 54857), (61, 54785), (81, 54719), (82, 54713), (84, 54707), (89, 54680),

Gene: BlackStallion_63 Start: 54766, Stop: 54308, Start Num: 34

Candidate Starts for BlackStallion_63:

(Start: 34 @54766 has 329 MA's), (40, 54670), (41, 54661), (54, 54586), (61, 54514), (81, 54448), (82, 54442), (84, 54436), (89, 54409),

Gene: Blocker23_59 Start: 53464, Stop: 52973, Start Num: 34

Candidate Starts for Blocker23_59:

(23, 53566), (Start: 34 @53464 has 329 MA's), (37, 53431), (40, 53371), (50, 53329), (54, 53326), (55, 53296), (60, 53257), (61, 53254), (63, 53251), (82, 53176), (88, 53137), (90, 53131), (93, 53113), (102, 53080), (108, 53062), (116, 53017),

Gene: BlueHusk_63 Start: 54521, Stop: 54063, Start Num: 34

Candidate Starts for BlueHusk_63:

(Start: 34 @54521 has 329 MA's), (40, 54425), (41, 54416), (54, 54341), (61, 54269), (81, 54203), (82, 54197), (84, 54191), (89, 54164),

Gene: Bluephacebaby_61 Start: 55040, Stop: 54582, Start Num: 34

Candidate Starts for Bluephacebaby_61:

(Start: 34 @55040 has 329 MA's), (40, 54944), (41, 54935), (54, 54860), (61, 54788), (81, 54722), (82, 54716), (84, 54710), (89, 54683),

Gene: Boehler_61 Start: 54684, Stop: 54226, Start Num: 34

Candidate Starts for Boehler_61:

(Start: 34 @54684 has 329 MA's), (40, 54588), (41, 54579), (54, 54504), (61, 54432), (81, 54366), (82, 54360), (84, 54354), (89, 54327),

Gene: Boyle_59 Start: 53493, Stop: 53002, Start Num: 34

Candidate Starts for Boyle_59:

(1, 54243), (2, 54153), (4, 54027), (5, 54003), (Start: 34 @53493 has 329 MA's), (37, 53460), (40, 53400), (50, 53358), (54, 53355), (55, 53325), (60, 53286), (61, 53283), (63, 53280), (82, 53205), (88, 53166), (90, 53160), (93, 53142), (102, 53109), (108, 53091), (116, 53046),

Gene: Briakila_61 Start: 54974, Stop: 54498, Start Num: 34

Candidate Starts for Briakila_61:

(Start: 33 @54977 has 10 MA's), (Start: 34 @54974 has 329 MA's), (40, 54878), (54, 54812), (55, 54782), (66, 54710), (67, 54707), (68, 54698), (74, 54683), (86, 54626),

Gene: Brilliant_64 Start: 55005, Stop: 54541, Start Num: 34

Candidate Starts for Brilliant_64:

(Start: 34 @55005 has 329 MA's), (40, 54909), (41, 54900), (54, 54825), (61, 54753), (81, 54687), (82, 54681), (84, 54675), (89, 54648),

Gene: Brownie5_59 Start: 53503, Stop: 53015, Start Num: 34

Candidate Starts for Brownie5_59:

(Start: 34 @53503 has 329 MA's), (37, 53470), (40, 53410), (50, 53368), (54, 53365), (55, 53335), (60, 53296), (61, 53293), (63, 53290), (82, 53215), (88, 53176), (90, 53170), (93, 53152), (102, 53119), (108, 53101), (116, 53056),

Gene: Buckeye_62 Start: 55298, Stop: 54840, Start Num: 34

Candidate Starts for Buckeye_62:

(Start: 34 @55298 has 329 MA's), (40, 55202), (41, 55193), (54, 55118), (61, 55046), (81, 54980), (82, 54974), (84, 54968), (89, 54941),

Gene: Burr_61 Start: 54473, Stop: 54015, Start Num: 34

Candidate Starts for Burr_61:

(Start: 34 @54473 has 329 MA's), (40, 54377), (41, 54368), (54, 54293), (61, 54221), (81, 54155), (82, 54149), (84, 54143), (89, 54116),

Gene: CRB2_58 Start: 56218, Stop: 55649, Start Num: 30

Candidate Starts for CRB2_58:

(15, 56434), (22, 56320), (Start: 30 @56218 has 1 MA's), (52, 56080), (57, 56026), (60, 56008), (61, 56005), (79, 55930), (102, 55828), (104, 55822), (113, 55783), (135, 55681),

Gene: Calamitous_59 Start: 53353, Stop: 52862, Start Num: 34

Candidate Starts for Calamitous_59:

(2, 54043), (4, 53917), (5, 53893), (23, 53455), (Start: 34 @53353 has 329 MA's), (37, 53320), (40, 53260), (50, 53218), (54, 53215), (55, 53185), (60, 53146), (61, 53143), (63, 53140), (82, 53065), (88, 53026), (90, 53020), (93, 53002), (102, 52969), (108, 52951), (116, 52906),

Gene: CamL_61 Start: 54805, Stop: 54347, Start Num: 34

Candidate Starts for CamL_61:

(Start: 34 @54805 has 329 MA's), (40, 54709), (41, 54700), (54, 54625), (61, 54553), (81, 54487), (82, 54481), (84, 54475), (89, 54448),

Gene: CampRoach_63 Start: 54909, Stop: 54445, Start Num: 34

Candidate Starts for CampRoach_63:

(Start: 34 @54909 has 329 MA's), (40, 54813), (41, 54804), (54, 54729), (61, 54657), (81, 54591), (82, 54585), (84, 54579), (89, 54552),

Gene: Cannibal_61 Start: 54747, Stop: 54289, Start Num: 34

Candidate Starts for Cannibal_61:

(Start: 34 @54747 has 329 MA's), (40, 54651), (41, 54642), (54, 54567), (61, 54495), (81, 54429), (82, 54423), (84, 54417), (89, 54390),

Gene: Carthage_60 Start: 53984, Stop: 53526, Start Num: 34

Candidate Starts for Carthage_60:

(Start: 34 @53984 has 329 MA's), (40, 53888), (41, 53879), (54, 53804), (61, 53732), (81, 53666), (82, 53660), (84, 53654), (89, 53627), (109, 53558),

Gene: Casbah_62 Start: 55319, Stop: 54843, Start Num: 34

Candidate Starts for Casbah_62:

(Start: 33 @55322 has 10 MA's), (Start: 34 @55319 has 329 MA's), (40, 55223), (54, 55157), (55, 55127), (66, 55055), (67, 55052), (68, 55043), (74, 55028), (86, 54971),

Gene: ChaChing_62 Start: 55021, Stop: 54545, Start Num: 34

Candidate Starts for ChaChing_62:

(19, 55156), (22, 55135), (Start: 33 @55024 has 10 MA's), (Start: 34 @55021 has 329 MA's), (40, 54925), (54, 54859), (55, 54829), (66, 54757), (67, 54754), (68, 54745), (74, 54730), (86, 54673),

Gene: Chaelin_62 Start: 55035, Stop: 54577, Start Num: 34

Candidate Starts for Chaelin_62:

(Start: 34 @55035 has 329 MA's), (40, 54939), (41, 54930), (54, 54855), (61, 54783), (81, 54717), (82, 54711), (84, 54705), (89, 54678),

Gene: Chah_63 Start: 54450, Stop: 53992, Start Num: 34

Candidate Starts for Chah_63:

(Start: 34 @54450 has 329 MA's), (40, 54354), (41, 54345), (54, 54270), (61, 54198), (81, 54132), (82, 54126), (84, 54120), (89, 54093),

Gene: Chandler_62 Start: 55789, Stop: 55313, Start Num: 34

Candidate Starts for Chandler_62:

(19, 55924), (22, 55903), (Start: 33 @55792 has 10 MA's), (Start: 34 @55789 has 329 MA's), (40, 55693), (54, 55627), (55, 55597), (66, 55525), (67, 55522), (68, 55513), (74, 55498), (86, 55441),

Gene: Charles1_62 Start: 54759, Stop: 54301, Start Num: 34

Candidate Starts for Charles1_62:

(Start: 34 @54759 has 329 MA's), (40, 54663), (41, 54654), (54, 54579), (61, 54507), (81, 54441), (82, 54435), (84, 54429), (89, 54402),

Gene: CharlieGBrown_62 Start: 54598, Stop: 54140, Start Num: 34

Candidate Starts for CharlieGBrown_62:

(Start: 34 @54598 has 329 MA's), (40, 54502), (41, 54493), (54, 54418), (61, 54346), (81, 54280), (82, 54274), (84, 54268), (89, 54241),

Gene: CheetO_61 Start: 54721, Stop: 54263, Start Num: 34

Candidate Starts for CheetO_61:

(Start: 34 @54721 has 329 MA's), (40, 54625), (41, 54616), (54, 54541), (61, 54469), (81, 54403), (82, 54397), (84, 54391), (89, 54364),

Gene: Cher_61 Start: 55015, Stop: 54557, Start Num: 34

Candidate Starts for Cher_61:

(Start: 34 @55015 has 329 MA's), (40, 54919), (41, 54910), (54, 54835), (61, 54763), (81, 54697), (82, 54691), (84, 54685), (89, 54658),

Gene: Childish_61 Start: 55026, Stop: 54568, Start Num: 34

Candidate Starts for Childish_61:

(Start: 34 @55026 has 329 MA's), (40, 54930), (41, 54921), (54, 54846), (61, 54774), (81, 54708), (82, 54702), (84, 54696), (89, 54669),

Gene: Chorkpop_61 Start: 54502, Stop: 54044, Start Num: 34

Candidate Starts for Chorkpop_61:

(Start: 34 @54502 has 329 MA's), (40, 54406), (41, 54397), (54, 54322), (61, 54250), (81, 54184), (82, 54178), (84, 54172), (89, 54145),

Gene: Chunky_60 Start: 54051, Stop: 53593, Start Num: 34

Candidate Starts for Chunky_60:

(Start: 34 @54051 has 329 MA's), (40, 53955), (41, 53946), (54, 53871), (61, 53799), (81, 53733), (82, 53727), (84, 53721), (89, 53694),

Gene: Chute_63 Start: 55063, Stop: 54605, Start Num: 34

Candidate Starts for Chute_63:

(Start: 34 @55063 has 329 MA's), (40, 54967), (41, 54958), (54, 54883), (61, 54811), (81, 54745), (82, 54739), (84, 54733), (89, 54706),

Gene: Cobra_63 Start: 55047, Stop: 54583, Start Num: 34

Candidate Starts for Cobra_63:

(Start: 34 @55047 has 329 MA's), (40, 54951), (41, 54942), (54, 54867), (61, 54795), (81, 54729), (82, 54723), (84, 54717), (89, 54690),

Gene: Coffee_59 Start: 53465, Stop: 52974, Start Num: 34

Candidate Starts for Coffee_59:

(23, 53567), (Start: 34 @53465 has 329 MA's), (37, 53432), (40, 53372), (50, 53330), (54, 53327), (55, 53297), (60, 53258), (61, 53255), (63, 53252), (82, 53177), (88, 53138), (90, 53132), (93, 53114), (102, 53081), (108, 53063), (116, 53018),

Gene: Colbert_60 Start: 54061, Stop: 53603, Start Num: 34

Candidate Starts for Colbert_60:

(Start: 34 @54061 has 329 MA's), (40, 53965), (41, 53956), (54, 53881), (61, 53809), (81, 53743), (82, 53737), (84, 53731), (89, 53704),

Gene: Coletti_64 Start: 55563, Stop: 55105, Start Num: 34

Candidate Starts for Coletti_64:

(Start: 34 @55563 has 329 MA's), (40, 55467), (41, 55458), (54, 55383), (61, 55311), (81, 55245), (82, 55239), (84, 55233), (89, 55206),

Gene: Compostia_62 Start: 55408, Stop: 54932, Start Num: 34

Candidate Starts for Compostia_62:

(8, 55801), (10, 55675), (12, 55657), (19, 55543), (22, 55522), (Start: 33 @55411 has 10 MA's), (Start: 34 @55408 has 329 MA's), (40, 55312), (54, 55246), (55, 55216), (66, 55144), (67, 55141), (68, 55132), (74, 55117), (86, 55060),

Gene: Cornobble_61 Start: 54495, Stop: 54037, Start Num: 34

Candidate Starts for Cornobble_61:

(Start: 34 @54495 has 329 MA's), (40, 54399), (41, 54390), (54, 54315), (61, 54243), (81, 54177), (82, 54171), (84, 54165), (89, 54138),

Gene: Corofin_62 Start: 55032, Stop: 54556, Start Num: 34

Candidate Starts for Corofin_62:

(19, 55167), (22, 55146), (Start: 33 @55035 has 10 MA's), (Start: 34 @55032 has 329 MA's), (40, 54936), (54, 54870), (55, 54840), (66, 54768), (67, 54765), (68, 54756), (74, 54741), (86, 54684),

Gene: Cosmolli16_62 Start: 55205, Stop: 54747, Start Num: 34

Candidate Starts for Cosmolli16_62:

(Start: 34 @55205 has 329 MA's), (40, 55109), (41, 55100), (54, 55025), (61, 54953), (81, 54887), (82, 54881), (84, 54875), (89, 54848),

Gene: Craff_64 Start: 55450, Stop: 54992, Start Num: 34

Candidate Starts for Craff_64:

(Start: 34 @55450 has 329 MA's), (40, 55354), (41, 55345), (54, 55270), (61, 55198), (81, 55132), (82, 55126), (84, 55120), (89, 55093),

Gene: Crownjwl_61 Start: 54524, Stop: 54066, Start Num: 34

Candidate Starts for Crownjwl_61:

(Start: 34 @54524 has 329 MA's), (40, 54428), (41, 54419), (54, 54344), (61, 54272), (81, 54206), (82, 54200), (84, 54194), (89, 54167),

Gene: DaddyDaniels_63 Start: 54983, Stop: 54525, Start Num: 34

Candidate Starts for DaddyDaniels_63:

(Start: 34 @54983 has 329 MA's), (40, 54887), (41, 54878), (54, 54803), (61, 54731), (81, 54665), (82, 54659), (84, 54653), (89, 54626),

Gene: Daffy_61 Start: 54488, Stop: 54030, Start Num: 34

Candidate Starts for Daffy_61:

(Start: 34 @54488 has 329 MA's), (40, 54392), (41, 54383), (54, 54308), (61, 54236), (81, 54170), (82, 54164), (84, 54158), (89, 54131),

Gene: Daisy_61 Start: 54565, Stop: 54089, Start Num: 34

Candidate Starts for Daisy_61:

(19, 54700), (22, 54679), (Start: 33 @54568 has 10 MA's), (Start: 34 @54565 has 329 MA's), (40, 54469), (54, 54403), (55, 54373), (66, 54301), (67, 54298), (68, 54289), (74, 54274), (86, 54217),

Gene: Daka_64 Start: 55004, Stop: 54546, Start Num: 34

Candidate Starts for Daka_64:

(Start: 34 @55004 has 329 MA's), (40, 54908), (41, 54899), (54, 54824), (61, 54752), (81, 54686), (82, 54680), (84, 54674), (89, 54647),

Gene: Dati_61 Start: 55019, Stop: 54561, Start Num: 34

Candidate Starts for Dati_61:

(Start: 34 @55019 has 329 MA's), (40, 54923), (41, 54914), (54, 54839), (61, 54767), (81, 54701), (82, 54695), (84, 54689), (89, 54662),

Gene: Deenasa_62 Start: 55870, Stop: 55394, Start Num: 34

Candidate Starts for Deenasa_62:

(16, 56029), (19, 56005), (22, 55984), (Start: 33 @55873 has 10 MA's), (Start: 34 @55870 has 329 MA's), (40, 55774), (54, 55708), (55, 55678), (66, 55606), (67, 55603), (68, 55594), (74, 55579), (86,

55522),

Gene: DelRivs_60 Start: 54472, Stop: 54008, Start Num: 34

Candidate Starts for DelRivs_60:

(Start: 34 @54472 has 329 MA's), (40, 54376), (41, 54367), (54, 54292), (61, 54220), (81, 54154), (82, 54148), (84, 54142), (89, 54115),

Gene: Derpp_61 Start: 54586, Stop: 54128, Start Num: 34

Candidate Starts for Derpp_61:

(Start: 34 @54586 has 329 MA's), (40, 54490), (41, 54481), (54, 54406), (61, 54334), (81, 54268), (82, 54262), (84, 54256), (89, 54229),

Gene: Devonte_61 Start: 54644, Stop: 54168, Start Num: 34

Candidate Starts for Devonte_61:

(19, 54779), (22, 54758), (Start: 33 @54647 has 10 MA's), (Start: 34 @54644 has 329 MA's), (40, 54548), (54, 54482), (55, 54452), (66, 54380), (67, 54377), (68, 54368), (74, 54353), (86, 54296),

Gene: Dice_60 Start: 54471, Stop: 54013, Start Num: 34

Candidate Starts for Dice_60:

(Start: 34 @54471 has 329 MA's), (40, 54375), (41, 54366), (54, 54291), (61, 54219), (81, 54153), (82, 54147), (84, 54141), (89, 54114),

Gene: DigitDog_59 Start: 55051, Stop: 54422, Start Num: 29

Candidate Starts for DigitDog_59:

(Start: 29 @55051 has 10 MA's), (37, 55009), (53, 54862), (55, 54829), (56, 54823), (57, 54808), (60, 54790), (64, 54772), (74, 54733), (75, 54724), (78, 54715), (102, 54613), (106, 54601),

Gene: Dingo_60 Start: 54030, Stop: 53572, Start Num: 34

Candidate Starts for Dingo_60:

(Start: 34 @54030 has 329 MA's), (40, 53934), (41, 53925), (54, 53850), (61, 53778), (81, 53712), (82, 53706), (84, 53700), (89, 53673),

Gene: Dione_59 Start: 54202, Stop: 53744, Start Num: 34

Candidate Starts for Dione_59:

(Start: 34 @54202 has 329 MA's), (40, 54106), (41, 54097), (54, 54022), (61, 53950), (81, 53884), (82, 53878), (84, 53872), (89, 53845),

Gene: DirtJuice_62 Start: 54792, Stop: 54334, Start Num: 34

Candidate Starts for DirtJuice_62:

(Start: 34 @54792 has 329 MA's), (40, 54696), (41, 54687), (54, 54612), (61, 54540), (81, 54474), (82, 54468), (84, 54462), (89, 54435),

Gene: Doddsville_62 Start: 54738, Stop: 54280, Start Num: 34

Candidate Starts for Doddsville_62:

(Start: 34 @54738 has 329 MA's), (40, 54642), (41, 54633), (54, 54558), (61, 54486), (81, 54420), (82, 54414), (84, 54408), (89, 54381),

Gene: DoesntMatter_59 Start: 54495, Stop: 54037, Start Num: 34

Candidate Starts for DoesntMatter_59:

(Start: 34 @54495 has 329 MA's), (40, 54399), (41, 54390), (54, 54315), (61, 54243), (81, 54177), (82, 54171), (84, 54165), (89, 54138),

Gene: DonSanchon_59 Start: 54185, Stop: 53727, Start Num: 34

Candidate Starts for DonSanchon_59:

(Start: 34 @54185 has 329 MA's), (40, 54089), (41, 54080), (54, 54005), (61, 53933), (81, 53867), (82, 53861), (84, 53855), (89, 53828),

Gene: Donny_60 Start: 55154, Stop: 54513, Start Num: 29

Candidate Starts for Donny_60:

(18, 55280), (Start: 29 @55154 has 10 MA's), (37, 55112), (53, 54965), (55, 54932), (57, 54911), (60, 54893), (64, 54875), (102, 54728), (106, 54716), (107, 54707), (122, 54644),

Gene: DuchessDung_63 Start: 54255, Stop: 53797, Start Num: 34

Candidate Starts for DuchessDung_63:

(Start: 34 @54255 has 329 MA's), (40, 54159), (41, 54150), (54, 54075), (61, 54003), (81, 53937), (82, 53931), (84, 53925), (89, 53898),

Gene: Duggie_62 Start: 54745, Stop: 54281, Start Num: 34

Candidate Starts for Duggie_62:

(Start: 34 @54745 has 329 MA's), (40, 54649), (41, 54640), (54, 54565), (61, 54493), (81, 54427), (82, 54421), (84, 54415), (89, 54388),

Gene: Durga_64 Start: 55235, Stop: 54777, Start Num: 34

Candidate Starts for Durga_64:

(Start: 34 @55235 has 329 MA's), (40, 55139), (41, 55130), (54, 55055), (61, 54983), (81, 54917), (82, 54911), (84, 54905), (89, 54878),

Gene: Eaglehorse_59 Start: 53403, Stop: 52912, Start Num: 34

Candidate Starts for Eaglehorse_59:

(Start: 34 @53403 has 329 MA's), (37, 53370), (40, 53310), (50, 53268), (54, 53265), (55, 53235), (60, 53196), (61, 53193), (63, 53190), (82, 53115), (88, 53076), (90, 53070), (93, 53052), (102, 53019), (108, 53001), (116, 52956),

Gene: EastView9101_58 Start: 54963, Stop: 54334, Start Num: 29

Candidate Starts for EastView9101_58:

(18, 55089), (Start: 29 @54963 has 10 MA's), (37, 54921), (53, 54774), (55, 54741), (57, 54720), (60, 54702), (64, 54684), (102, 54537), (106, 54525), (107, 54516), (122, 54453),

Gene: Emiris_64 Start: 55202, Stop: 54744, Start Num: 34

Candidate Starts for Emiris_64:

(Start: 34 @55202 has 329 MA's), (40, 55106), (41, 55097), (54, 55022), (61, 54950), (81, 54884), (82, 54878), (84, 54872), (89, 54845),

Gene: EmpTee_61 Start: 54711, Stop: 54253, Start Num: 34

Candidate Starts for EmpTee_61:

(Start: 34 @54711 has 329 MA's), (40, 54615), (41, 54606), (54, 54531), (61, 54459), (81, 54393), (82, 54387), (84, 54381), (89, 54354),

Gene: Eremos_61 Start: 54701, Stop: 54243, Start Num: 34

Candidate Starts for Eremos_61:

(Start: 34 @54701 has 329 MA's), (40, 54605), (41, 54596), (54, 54521), (61, 54449), (81, 54383), (82, 54377), (84, 54371), (89, 54344),

Gene: Etaye_63 Start: 55532, Stop: 55074, Start Num: 34

Candidate Starts for Etaye_63:

(Start: 34 @55532 has 329 MA's), (40, 55436), (41, 55427), (54, 55352), (61, 55280), (81, 55214), (82, 55208), (84, 55202), (89, 55175),

Gene: Eugenia_61 Start: 54854, Stop: 54396, Start Num: 34

Candidate Starts for Eugenia_61:

(Start: 34 @54854 has 329 MA's), (40, 54758), (41, 54749), (54, 54674), (61, 54602), (81, 54536), (82, 54530), (84, 54524), (89, 54497),

Gene: Fang_63 Start: 54747, Stop: 54289, Start Num: 34

Candidate Starts for Fang_63:

(Start: 34 @54747 has 329 MA's), (40, 54651), (41, 54642), (54, 54567), (61, 54495), (81, 54429), (82, 54423), (84, 54417), (89, 54390),

Gene: Faze9_58 Start: 53488, Stop: 52997, Start Num: 34

Candidate Starts for Faze9_58:

(23, 53590), (Start: 34 @53488 has 329 MA's), (37, 53455), (40, 53395), (50, 53353), (54, 53350), (55, 53320), (60, 53281), (61, 53278), (63, 53275), (82, 53200), (88, 53161), (90, 53155), (93, 53137), (102, 53104), (108, 53086), (116, 53041),

Gene: FluffyNinja_63 Start: 54767, Stop: 54309, Start Num: 34

Candidate Starts for FluffyNinja_63:

(Start: 34 @54767 has 329 MA's), (40, 54671), (41, 54662), (54, 54587), (61, 54515), (81, 54449), (82, 54443), (84, 54437), (89, 54410),

Gene: Fozzie_62 Start: 54992, Stop: 54534, Start Num: 34

Candidate Starts for Fozzie_62:

(Start: 34 @54992 has 329 MA's), (40, 54896), (41, 54887), (54, 54812), (61, 54740), (81, 54674), (82, 54668), (84, 54662), (89, 54635),

Gene: Frankicide_60 Start: 54532, Stop: 54074, Start Num: 34

Candidate Starts for Frankicide_60:

(Start: 34 @54532 has 329 MA's), (40, 54436), (41, 54427), (54, 54352), (61, 54280), (81, 54214), (82, 54208), (84, 54202), (89, 54175),

Gene: FrenchFry_59 Start: 53464, Stop: 52973, Start Num: 34

Candidate Starts for FrenchFry_59:

(1, 54244), (2, 54154), (4, 54028), (5, 54004), (23, 53566), (Start: 34 @53464 has 329 MA's), (37, 53431), (40, 53371), (50, 53329), (54, 53326), (55, 53296), (60, 53257), (61, 53254), (63, 53251), (82, 53176), (88, 53137), (90, 53131), (93, 53113), (102, 53080), (108, 53062), (116, 53017),

Gene: Freya_59 Start: 54193, Stop: 53735, Start Num: 34

Candidate Starts for Freya_59:

(Start: 34 @54193 has 329 MA's), (40, 54097), (41, 54088), (54, 54013), (61, 53941), (81, 53875), (82, 53869), (84, 53863), (89, 53836),

Gene: FriarPreacher_61 Start: 54585, Stop: 54121, Start Num: 34

Candidate Starts for FriarPreacher_61:

(Start: 34 @54585 has 329 MA's), (40, 54489), (41, 54480), (54, 54405), (61, 54333), (81, 54267), (82, 54261), (84, 54255), (89, 54228),

Gene: Fringe_65 Start: 55369, Stop: 54911, Start Num: 34

Candidate Starts for Fringe_65:

(Start: 34 @55369 has 329 MA's), (40, 55273), (41, 55264), (54, 55189), (61, 55117), (81, 55051), (82, 55045), (84, 55039), (89, 55012),

Gene: FugateOSU_62 Start: 55538, Stop: 55080, Start Num: 34

Candidate Starts for FugateOSU_62:

(Start: 34 @55538 has 329 MA's), (40, 55442), (41, 55433), (54, 55358), (61, 55286), (81, 55220), (82, 55214), (84, 55208), (89, 55181),

Gene: Funsized_61 Start: 57221, Stop: 56568, Start Num: 28

Candidate Starts for Funsized_61:

(6, 57734), (9, 57476), (11, 57461), (21, 57338), (Start: 28 @57221 has 2 MA's), (31, 57212), (37, 57167), (40, 57107), (42, 57086), (51, 57047), (53, 57041), (60, 56972), (61, 56969), (67, 56939), (72, 56924), (89, 56849), (93, 56831), (110, 56771), (111, 56765), (132, 56660), (140, 56594), (141, 56579),

Gene: Gadget_63 Start: 55340, Stop: 54861, Start Num: 34

Candidate Starts for Gadget_63:

(Start: 33 @55343 has 10 MA's), (Start: 34 @55340 has 329 MA's), (40, 55244), (54, 55178), (55, 55148), (66, 55076), (67, 55073), (68, 55064), (86, 54989),

Gene: Gareth_61 Start: 54991, Stop: 54533, Start Num: 34

Candidate Starts for Gareth_61:

(Start: 34 @54991 has 329 MA's), (40, 54895), (41, 54886), (54, 54811), (61, 54739), (81, 54673), (82, 54667), (84, 54661), (89, 54634),

Gene: GeneCoco_62 Start: 55034, Stop: 54576, Start Num: 34

Candidate Starts for GeneCoco_62:

(Start: 34 @55034 has 329 MA's), (40, 54938), (41, 54929), (54, 54854), (61, 54782), (81, 54716), (82, 54710), (84, 54704), (89, 54677),

Gene: Gervas_63 Start: 55426, Stop: 54950, Start Num: 34

Candidate Starts for Gervas_63:

(19, 55561), (22, 55540), (Start: 33 @55429 has 10 MA's), (Start: 34 @55426 has 329 MA's), (40, 55330), (54, 55264), (55, 55234), (66, 55162), (67, 55159), (68, 55150), (74, 55135), (79, 55117), (86, 55078),

Gene: Giraffe_62 Start: 54986, Stop: 54528, Start Num: 34

Candidate Starts for Giraffe_62:

(Start: 34 @54986 has 329 MA's), (40, 54890), (41, 54881), (54, 54806), (61, 54734), (81, 54668), (82, 54662), (84, 54656), (89, 54629),

Gene: Glass_59 Start: 53466, Stop: 52975, Start Num: 34

Candidate Starts for Glass_59:

(1, 54246), (2, 54156), (4, 54030), (5, 54006), (23, 53568), (Start: 34 @53466 has 329 MA's), (37, 53433), (40, 53373), (50, 53331), (54, 53328), (55, 53298), (60, 53259), (61, 53256), (63, 53253), (82, 53178), (88, 53139), (90, 53133), (93, 53115), (102, 53082), (108, 53064), (116, 53019),

Gene: GlenHope_63 Start: 55000, Stop: 54524, Start Num: 34

Candidate Starts for GlenHope_63:

(19, 55135), (22, 55114), (Start: 33 @55003 has 10 MA's), (Start: 34 @55000 has 329 MA's), (40, 54904), (54, 54838), (55, 54808), (66, 54736), (67, 54733), (68, 54724), (74, 54709), (86, 54652),

Gene: Godines_60 Start: 53749, Stop: 53258, Start Num: 34

Candidate Starts for Godines_60:

(14, 53956), (Start: 34 @53749 has 329 MA's), (37, 53716), (40, 53656), (50, 53614), (54, 53611), (55, 53581), (60, 53542), (61, 53539), (63, 53536), (65, 53524), (82, 53461), (88, 53422), (90, 53416), (93, 53398), (102, 53365), (116, 53302),

Gene: Gophee_63 Start: 54977, Stop: 54519, Start Num: 34

Candidate Starts for Gophee_63:

(Start: 34 @54977 has 329 MA's), (40, 54881), (41, 54872), (54, 54797), (61, 54725), (81, 54659), (82, 54653), (84, 54647), (89, 54620),

Gene: Grand2040_61 Start: 54980, Stop: 54522, Start Num: 34

Candidate Starts for Grand2040_61:

(Start: 34 @54980 has 329 MA's), (40, 54884), (41, 54875), (54, 54800), (61, 54728), (81, 54662), (82, 54656), (84, 54650), (89, 54623),

Gene: Gwilliam_63 Start: 55385, Stop: 54927, Start Num: 34

Candidate Starts for Gwilliam_63:

(Start: 34 @55385 has 329 MA's), (40, 55289), (41, 55280), (54, 55205), (61, 55133), (81, 55067), (82, 55061), (84, 55055), (89, 55028),

Gene: Gyarad_0060 Start: 54067, Stop: 53609, Start Num: 34

Candidate Starts for Gyarad_0060:

(Start: 34 @54067 has 329 MA's), (40, 53971), (41, 53962), (54, 53887), (61, 53815), (81, 53749), (82, 53743), (84, 53737), (89, 53710),

Gene: HSavage_60 Start: 54511, Stop: 54053, Start Num: 34

Candidate Starts for HSavage_60:

(Start: 34 @54511 has 329 MA's), (40, 54415), (41, 54406), (54, 54331), (61, 54259), (81, 54193), (82, 54187), (84, 54181), (89, 54154),

Gene: Haimas_60 Start: 54428, Stop: 53970, Start Num: 34

Candidate Starts for Haimas_60:

(Start: 34 @54428 has 329 MA's), (40, 54332), (41, 54323), (54, 54248), (61, 54176), (81, 54110), (82, 54104), (84, 54098), (89, 54071),

Gene: Haleema_60 Start: 54532, Stop: 54068, Start Num: 34

Candidate Starts for Haleema_60:

(Start: 34 @54532 has 329 MA's), (40, 54436), (41, 54427), (54, 54352), (61, 54280), (81, 54214), (82, 54208), (84, 54202), (89, 54175),

Gene: Halfpint_61 Start: 54743, Stop: 54264, Start Num: 34

Candidate Starts for Halfpint_61:

(Start: 33 @54746 has 10 MA's), (Start: 34 @54743 has 329 MA's), (40, 54647), (54, 54581), (55, 54551), (66, 54479), (67, 54476), (68, 54467), (74, 54452), (86, 54395),

Gene: Hamish_60 Start: 54422, Stop: 53964, Start Num: 34

Candidate Starts for Hamish_60:

(Start: 34 @54422 has 329 MA's), (40, 54326), (41, 54317), (54, 54242), (61, 54170), (81, 54104), (82, 54098), (84, 54092), (89, 54065),

Gene: Hartsy_62 Start: 54860, Stop: 54402, Start Num: 34

Candidate Starts for Hartsy_62:

(Start: 34 @54860 has 329 MA's), (40, 54764), (41, 54755), (54, 54680), (61, 54608), (81, 54542), (82, 54536), (84, 54530), (89, 54503),

Gene: Harvey_60 Start: 54515, Stop: 54057, Start Num: 34

Candidate Starts for Harvey_60:

(Start: 34 @54515 has 329 MA's), (40, 54419), (41, 54410), (54, 54335), (61, 54263), (81, 54197), (82, 54191), (84, 54185), (89, 54158),

Gene: HarveySr_61 Start: 54590, Stop: 54114, Start Num: 34

Candidate Starts for HarveySr_61:

(19, 54725), (22, 54704), (Start: 33 @54593 has 10 MA's), (Start: 34 @54590 has 329 MA's), (40, 54494), (54, 54428), (55, 54398), (66, 54326), (67, 54323), (68, 54314), (74, 54299), (86, 54242),

Gene: Hashim76_64 Start: 55261, Stop: 54758, Start Num: 34

Candidate Starts for Hashim76_64:

(Start: 34 @55261 has 329 MA's), (55, 55063), (60, 55024), (68, 54982), (91, 54889),

Gene: Heathcliff_62 Start: 54970, Stop: 54491, Start Num: 33

Candidate Starts for Heathcliff_62:

(19, 55102), (22, 55081), (Start: 33 @54970 has 10 MA's), (Start: 34 @54967 has 329 MA's), (40, 54871), (54, 54805), (55, 54775), (66, 54703), (67, 54700), (68, 54691), (74, 54676), (86, 54619),

Gene: Hedgerow_59 Start: 53478, Stop: 52990, Start Num: 34

Candidate Starts for Hedgerow_59:

(Start: 34 @53478 has 329 MA's), (37, 53445), (40, 53385), (50, 53343), (54, 53340), (55, 53310), (60, 53271), (61, 53268), (63, 53265), (82, 53190), (88, 53151), (90, 53145), (93, 53127), (102, 53094), (108, 53076), (116, 53031),

Gene: Held_61 Start: 54489, Stop: 54031, Start Num: 34

Candidate Starts for Held_61:

(Start: 34 @54489 has 329 MA's), (40, 54393), (41, 54384), (54, 54309), (61, 54237), (81, 54171), (82, 54165), (84, 54159), (89, 54132),

Gene: HenryJackson_61 Start: 55015, Stop: 54557, Start Num: 34

Candidate Starts for HenryJackson_61:

(Start: 34 @55015 has 329 MA's), (40, 54919), (41, 54910), (54, 54835), (61, 54763), (81, 54697), (82, 54691), (84, 54685), (89, 54658),

Gene: Hertubise_61 Start: 54781, Stop: 54323, Start Num: 34

Candidate Starts for Hertubise_61:

(Start: 34 @54781 has 329 MA's), (40, 54685), (41, 54676), (54, 54601), (61, 54529), (81, 54463), (82, 54457), (84, 54451), (89, 54424),

Gene: Hetaeria_61 Start: 54720, Stop: 54262, Start Num: 34

Candidate Starts for Hetaeria_61:

(Start: 34 @54720 has 329 MA's), (40, 54624), (41, 54615), (54, 54540), (61, 54468), (81, 54402), (82, 54396), (84, 54390), (89, 54363),

Gene: HighStump_63 Start: 54992, Stop: 54534, Start Num: 34

Candidate Starts for HighStump_63:

(Start: 34 @54992 has 329 MA's), (40, 54896), (41, 54887), (54, 54812), (61, 54740), (81, 54674), (82, 54668), (84, 54662), (89, 54635),

Gene: Hocus_61 Start: 54476, Stop: 54018, Start Num: 34

Candidate Starts for Hocus_61:

(Start: 34 @54476 has 329 MA's), (40, 54380), (41, 54371), (54, 54296), (61, 54224), (81, 54158), (82, 54152), (84, 54146), (89, 54119),

Gene: Holeinone_59 Start: 53320, Stop: 52829, Start Num: 34

Candidate Starts for Holeinone_59:

(1, 54100), (2, 54010), (4, 53884), (5, 53860), (23, 53422), (Start: 34 @53320 has 329 MA's), (37, 53287), (40, 53227), (50, 53185), (54, 53182), (55, 53152), (60, 53113), (61, 53110), (63, 53107), (82, 53032), (88, 52993), (90, 52987), (93, 52969), (102, 52936), (108, 52918), (116, 52873),

Gene: Horchata_60 Start: 54511, Stop: 54053, Start Num: 34

Candidate Starts for Horchata_60:

(Start: 34 @54511 has 329 MA's), (40, 54415), (41, 54406), (54, 54331), (61, 54259), (81, 54193), (82, 54187), (84, 54181), (89, 54154),

Gene: Hosp_052 Start: 51513, Stop: 51040, Start Num: 34

Candidate Starts for Hosp_052:

(Start: 34 @51513 has 329 MA's), (40, 51420), (44, 51390), (47, 51378), (59, 51291), (69, 51246), (77, 51231), (93, 51159), (99, 51147), (103, 51123), (109, 51099),

Gene: ImtiyazSitla_63 Start: 54718, Stop: 54254, Start Num: 34

Candidate Starts for ImtiyazSitla_63:

(Start: 34 @54718 has 329 MA's), (40, 54622), (41, 54613), (54, 54538), (61, 54466), (81, 54400), (82, 54394), (84, 54388), (89, 54361),

Gene: Inchworm_63 Start: 54869, Stop: 54405, Start Num: 34

Candidate Starts for Inchworm_63:

(Start: 34 @54869 has 329 MA's), (40, 54773), (41, 54764), (54, 54689), (61, 54617), (81, 54551), (82, 54545), (84, 54539), (89, 54512),

Gene: Indlovu_57 Start: 55077, Stop: 54580, Start Num: 26

Candidate Starts for Indlovu_57:

(Start: 26 @55077 has 3 MA's), (35, 55059), (41, 54960), (49, 54930), (53, 54924), (60, 54855), (73, 54798), (94, 54702), (100, 54690), (102, 54672), (105, 54663), (115, 54624), (117, 54609), (122, 54594),

Gene: Inverness_60 Start: 54519, Stop: 54061, Start Num: 34

Candidate Starts for Inverness_60:

(Start: 34 @54519 has 329 MA's), (40, 54423), (41, 54414), (54, 54339), (61, 54267), (81, 54201), (82, 54195), (84, 54189), (89, 54162),

Gene: Iridoclysis_62 Start: 54803, Stop: 54345, Start Num: 34

Candidate Starts for Iridoclysis_62:

(Start: 34 @54803 has 329 MA's), (40, 54707), (41, 54698), (54, 54623), (61, 54551), (81, 54485), (82, 54479), (84, 54473), (89, 54446),

Gene: IsaacEli_63 Start: 55002, Stop: 54544, Start Num: 34

Candidate Starts for IsaacEli_63:

(Start: 34 @55002 has 329 MA's), (40, 54906), (41, 54897), (54, 54822), (61, 54750), (81, 54684), (82, 54678), (84, 54672), (89, 54645),

Gene: JDog_60 Start: 55024, Stop: 54560, Start Num: 34

Candidate Starts for JDog_60:

(Start: 34 @55024 has 329 MA's), (40, 54928), (41, 54919), (54, 54844), (61, 54772), (81, 54706), (82, 54700), (84, 54694), (89, 54667),

Gene: JacAttac_63 Start: 54465, Stop: 54007, Start Num: 34

Candidate Starts for JacAttac_63:

(Start: 34 @54465 has 329 MA's), (40, 54369), (41, 54360), (54, 54285), (61, 54213), (81, 54147), (82, 54141), (84, 54135), (89, 54108),

Gene: Jackstina_58 Start: 54892, Stop: 54416, Start Num: 34

Candidate Starts for Jackstina_58:

(19, 55027), (22, 55006), (Start: 33 @54895 has 10 MA's), (Start: 34 @54892 has 329 MA's), (40, 54796), (55, 54700), (66, 54628), (67, 54625), (68, 54616), (74, 54601), (86, 54544),

Gene: JakeO_62 Start: 54747, Stop: 54283, Start Num: 34

Candidate Starts for JakeO_62:

(Start: 34 @54747 has 329 MA's), (40, 54651), (41, 54642), (54, 54567), (61, 54495), (81, 54429), (82, 54423), (84, 54417), (89, 54390),

Gene: JangoPhett_61 Start: 54806, Stop: 54348, Start Num: 34

Candidate Starts for JangoPhett_61:

(Start: 34 @54806 has 329 MA's), (40, 54710), (41, 54701), (54, 54626), (61, 54554), (81, 54488), (82, 54482), (84, 54476), (89, 54449),

Gene: Jillium_61 Start: 55010, Stop: 54552, Start Num: 34

Candidate Starts for Jillium_61:

(Start: 34 @55010 has 329 MA's), (40, 54914), (41, 54905), (54, 54830), (61, 54758), (81, 54692), (82, 54686), (84, 54680), (89, 54653),

Gene: Jiminy_62 Start: 54583, Stop: 54119, Start Num: 34

Candidate Starts for Jiminy_62:

(Start: 34 @54583 has 329 MA's), (40, 54487), (41, 54478), (54, 54403), (61, 54331), (81, 54265), (82, 54259), (84, 54253), (89, 54226),

Gene: Jiraiya_65 Start: 54781, Stop: 54317, Start Num: 34

Candidate Starts for Jiraiya_65:

(Start: 34 @54781 has 329 MA's), (40, 54685), (41, 54676), (54, 54601), (61, 54529), (81, 54463), (82, 54457), (84, 54451), (89, 54424),

Gene: Jolie1_054 Start: 53413, Stop: 52940, Start Num: 34

Candidate Starts for Jolie1_054:

(Start: 34 @53413 has 329 MA's), (40, 53320), (44, 53290), (47, 53278), (59, 53191), (77, 53131), (93, 53059), (99, 53047),

Gene: KLucky39_60 Start: 54066, Stop: 53608, Start Num: 34

Candidate Starts for KLucky39_60:

(Start: 34 @54066 has 329 MA's), (40, 53970), (41, 53961), (54, 53886), (61, 53814), (81, 53748), (82, 53742), (84, 53736), (89, 53709),

Gene: Kahve_61 Start: 55012, Stop: 54554, Start Num: 34

Candidate Starts for Kahve_61:

(Start: 34 @55012 has 329 MA's), (40, 54916), (41, 54907), (54, 54832), (61, 54760), (81, 54694), (82, 54688), (84, 54682), (89, 54655),

Gene: Kailash_62 Start: 55098, Stop: 54634, Start Num: 34

Candidate Starts for Kailash_62:

(Start: 34 @55098 has 329 MA's), (40, 55002), (41, 54993), (54, 54918), (61, 54846), (81, 54780), (82, 54774), (84, 54768), (89, 54741),

Gene: Kaleb_59 Start: 53502, Stop: 53011, Start Num: 34

Candidate Starts for Kaleb_59:

(Start: 34 @53502 has 329 MA's), (37, 53469), (40, 53409), (50, 53367), (54, 53364), (55, 53334), (60, 53295), (61, 53292), (63, 53289), (82, 53214), (88, 53175), (90, 53169), (93, 53151), (102, 53118), (108, 53100), (116, 53055),

Gene: Kamiyu_62 Start: 54969, Stop: 54493, Start Num: 34

Candidate Starts for Kamiyu_62:

(19, 55104), (22, 55083), (Start: 33 @54972 has 10 MA's), (Start: 34 @54969 has 329 MA's), (40, 54873), (54, 54807), (55, 54777), (66, 54705), (67, 54702), (68, 54693), (74, 54678), (86, 54621),

Gene: KarasumaRum_59 Start: 55230, Stop: 54595, Start Num: 29

Candidate Starts for KarasumaRum_59:

(Start: 29 @55230 has 10 MA's), (37, 55188), (53, 55041), (55, 55008), (56, 55002), (57, 54987), (60, 54969), (64, 54951), (74, 54912), (75, 54903), (78, 54894), (87, 54849), (96, 54819), (97, 54813),

Gene: Katniss_62 Start: 54450, Stop: 53992, Start Num: 34

Candidate Starts for Katniss_62:

(Start: 34 @54450 has 329 MA's), (40, 54354), (41, 54345), (54, 54270), (61, 54198), (81, 54132), (82, 54126), (84, 54120), (89, 54093),

Gene: Keitherie_63 Start: 55073, Stop: 54615, Start Num: 34

Candidate Starts for Keitherie_63:

(Start: 34 @55073 has 329 MA's), (40, 54977), (41, 54968), (54, 54893), (61, 54821), (81, 54755), (82, 54749), (84, 54743), (89, 54716),

Gene: Kheth_59 Start: 53385, Stop: 52894, Start Num: 34

Candidate Starts for Kheth_59:

(2, 54075), (4, 53949), (5, 53925), (23, 53487), (Start: 34 @53385 has 329 MA's), (37, 53352), (40, 53292), (50, 53250), (54, 53247), (55, 53217), (60, 53178), (61, 53175), (63, 53172), (82, 53097), (88, 53058), (90, 53052), (93, 53034), (102, 53001), (103, 52998), (108, 52983), (116, 52938),

Gene: Kikipoo_63 Start: 55002, Stop: 54544, Start Num: 34

Candidate Starts for Kikipoo_63:

(Start: 34 @55002 has 329 MA's), (40, 54906), (41, 54897), (54, 54822), (61, 54750), (81, 54684), (82, 54678), (84, 54672), (89, 54645),

Gene: Kimbrough_62 Start: 55053, Stop: 54595, Start Num: 34

Candidate Starts for Kimbrough_62:

(Start: 34 @55053 has 329 MA's), (40, 54957), (41, 54948), (54, 54873), (61, 54801), (81, 54735), (82, 54729), (84, 54723), (89, 54696),

Gene: KingTut_54 Start: 51217, Stop: 50759, Start Num: 34

Candidate Starts for KingTut_54:

(Start: 34 @51217 has 329 MA's), (40, 51121), (41, 51112), (54, 51037), (61, 50965), (81, 50899), (82, 50893), (84, 50887), (89, 50860),

Gene: KingVeVeVe_60 Start: 54020, Stop: 53562, Start Num: 34
Candidate Starts for KingVeVeVe_60:
(Start: 34 @54020 has 329 MA's), (40, 53924), (41, 53915), (54, 53840), (61, 53768), (81, 53702), (82, 53696), (84, 53690), (89, 53663),

Gene: KlimbOn_61 Start: 54511, Stop: 54053, Start Num: 34
Candidate Starts for KlimbOn_61:
(Start: 34 @54511 has 329 MA's), (40, 54415), (41, 54406), (54, 54331), (61, 54259), (81, 54193), (82, 54187), (84, 54181), (89, 54154),

Gene: Kloppinator_62 Start: 54662, Stop: 54204, Start Num: 34
Candidate Starts for Kloppinator_62:
(Start: 34 @54662 has 329 MA's), (40, 54566), (41, 54557), (54, 54482), (61, 54410), (81, 54344), (82, 54338), (84, 54332), (89, 54305),

Gene: Knocker_60 Start: 56622, Stop: 55990, Start Num: 27
Candidate Starts for Knocker_60:
(24, 56706), (Start: 27 @56622 has 1 MA's), (36, 56598), (42, 56502), (54, 56475), (70, 56358), (85, 56301), (89, 56283), (102, 56232), (105, 56223), (119, 56163), (123, 56148), (138, 56040),

Gene: Kronus_62 Start: 56054, Stop: 55578, Start Num: 34
Candidate Starts for Kronus_62:
(19, 56192), (22, 56171), (Start: 33 @56057 has 10 MA's), (Start: 34 @56054 has 329 MA's), (40, 55958), (54, 55892), (55, 55862), (66, 55790), (67, 55787), (68, 55778), (74, 55763), (86, 55706),

Gene: Kwadwo_60 Start: 54463, Stop: 54005, Start Num: 34
Candidate Starts for Kwadwo_60:
(Start: 34 @54463 has 329 MA's), (40, 54367), (41, 54358), (54, 54283), (61, 54211), (81, 54145), (82, 54139), (84, 54133), (89, 54106),

Gene: Kwksand96_62 Start: 54598, Stop: 54134, Start Num: 34
Candidate Starts for Kwksand96_62:
(Start: 34 @54598 has 329 MA's), (40, 54502), (41, 54493), (54, 54418), (61, 54346), (81, 54280), (82, 54274), (84, 54268), (89, 54241),

Gene: Labeouficaum_62 Start: 54586, Stop: 54128, Start Num: 34
Candidate Starts for Labeouficaum_62:
(Start: 34 @54586 has 329 MA's), (40, 54490), (41, 54481), (54, 54406), (61, 54334), (81, 54268), (82, 54262), (84, 54256), (89, 54229),

Gene: Lars_59 Start: 53450, Stop: 52959, Start Num: 34
Candidate Starts for Lars_59:
(1, 54230), (2, 54140), (4, 54014), (5, 53990), (23, 53552), (Start: 34 @53450 has 329 MA's), (37, 53417), (40, 53357), (50, 53315), (54, 53312), (55, 53282), (60, 53243), (61, 53240), (63, 53237), (82, 53162), (88, 53123), (90, 53117), (93, 53099), (102, 53066), (108, 53048), (116, 53003),

Gene: LasagnaCat_63 Start: 54881, Stop: 54417, Start Num: 34
Candidate Starts for LasagnaCat_63:
(Start: 34 @54881 has 329 MA's), (40, 54785), (41, 54776), (54, 54701), (61, 54629), (81, 54563), (82, 54557), (84, 54551), (89, 54524),

Gene: Lasso_62 Start: 54738, Stop: 54280, Start Num: 34
Candidate Starts for Lasso_62:

(Start: 34 @54738 has 329 MA's), (40, 54642), (41, 54633), (54, 54558), (61, 54486), (81, 54420), (82, 54414), (84, 54408), (89, 54381),

Gene: Laurie_59 Start: 53177, Stop: 52686, Start Num: 34

Candidate Starts for Laurie_59:

(Start: 34 @53177 has 329 MA's), (37, 53144), (40, 53084), (50, 53042), (54, 53039), (55, 53009), (60, 52970), (61, 52967), (63, 52964), (82, 52889), (88, 52850), (90, 52844), (93, 52826), (102, 52793), (108, 52775), (116, 52730),

Gene: LeeLot_62 Start: 55093, Stop: 54635, Start Num: 34

Candidate Starts for LeeLot_62:

(Start: 34 @55093 has 329 MA's), (40, 54997), (41, 54988), (54, 54913), (61, 54841), (81, 54775), (82, 54769), (84, 54763), (89, 54736),

Gene: Lego3393_60 Start: 55044, Stop: 54586, Start Num: 34

Candidate Starts for Lego3393_60:

(Start: 34 @55044 has 329 MA's), (40, 54948), (41, 54939), (54, 54864), (61, 54792), (81, 54726), (82, 54720), (84, 54714), (89, 54687),

Gene: Legolas_63 Start: 54832, Stop: 54374, Start Num: 34

Candidate Starts for Legolas_63:

(Start: 34 @54832 has 329 MA's), (40, 54736), (41, 54727), (54, 54652), (61, 54580), (81, 54514), (82, 54508), (84, 54502), (89, 54475),

Gene: LeiMonet_64 Start: 54955, Stop: 54491, Start Num: 34

Candidate Starts for LeiMonet_64:

(Start: 34 @54955 has 329 MA's), (40, 54859), (41, 54850), (54, 54775), (61, 54703), (81, 54637), (82, 54631), (84, 54625), (89, 54598),

Gene: LemonSlice_62 Start: 54423, Stop: 53965, Start Num: 34

Candidate Starts for LemonSlice_62:

(Start: 34 @54423 has 329 MA's), (40, 54327), (41, 54318), (54, 54243), (61, 54171), (81, 54105), (82, 54099), (84, 54093), (89, 54066),

Gene: Lephleur_59 Start: 53359, Stop: 52871, Start Num: 34

Candidate Starts for Lephleur_59:

(1, 54094), (2, 54004), (23, 53461), (Start: 34 @53359 has 329 MA's), (37, 53326), (40, 53266), (50, 53224), (54, 53221), (55, 53191), (60, 53152), (61, 53149), (63, 53146), (82, 53071), (88, 53032), (90, 53026), (93, 53008), (102, 52975), (108, 52957), (116, 52912),

Gene: LestyG_60 Start: 54490, Stop: 54038, Start Num: 33

Candidate Starts for LestyG_60:

(19, 54622), (22, 54601), (Start: 33 @54490 has 10 MA's), (Start: 34 @54487 has 329 MA's), (40, 54391), (54, 54325), (55, 54295), (61, 54253), (66, 54223), (67, 54220), (68, 54211), (74, 54196), (86, 54163),

Gene: LilMcDreamy_56 Start: 54463, Stop: 53825, Start Num: 29

Candidate Starts for LilMcDreamy_56:

(12, 54697), (13, 54682), (Start: 29 @54463 has 10 MA's), (37, 54421), (41, 54352), (45, 54325), (48, 54316), (55, 54253), (60, 54214), (69, 54175), (71, 54169), (83, 54139), (87, 54112), (97, 54076), (118, 53977), (121, 53968), (122, 53965), (136, 53881), (139, 53851),

Gene: LizLemon_59 Start: 53475, Stop: 52984, Start Num: 34

Candidate Starts for LizLemon_59:

(1, 54255), (2, 54165), (4, 54039), (5, 54015), (23, 53577), (Start: 34 @53475 has 329 MA's), (37, 53442), (40, 53382), (50, 53340), (54, 53337), (55, 53307), (60, 53268), (61, 53265), (63, 53262), (82, 53187), (88, 53148), (90, 53142), (93, 53124), (102, 53091), (108, 53073), (116, 53028),

Gene: Longacauda_62 Start: 54858, Stop: 54394, Start Num: 34

Candidate Starts for Longacauda_62:

(Start: 34 @54858 has 329 MA's), (40, 54762), (41, 54753), (54, 54678), (61, 54606), (81, 54540), (82, 54534), (84, 54528), (89, 54501),

Gene: Lopsy_60 Start: 54151, Stop: 53693, Start Num: 34

Candidate Starts for Lopsy_60:

(Start: 34 @54151 has 329 MA's), (40, 54055), (41, 54046), (54, 53971), (61, 53899), (81, 53833), (82, 53827), (84, 53821), (89, 53794),

Gene: LostAndPhound_62 Start: 55037, Stop: 54579, Start Num: 34

Candidate Starts for LostAndPhound_62:

(Start: 34 @55037 has 329 MA's), (40, 54941), (41, 54932), (54, 54857), (61, 54785), (81, 54719), (82, 54713), (84, 54707), (89, 54680),

Gene: LuckyMarjie_59 Start: 54213, Stop: 53755, Start Num: 34

Candidate Starts for LuckyMarjie_59:

(Start: 34 @54213 has 329 MA's), (40, 54117), (41, 54108), (54, 54033), (61, 53961), (81, 53895), (82, 53889), (84, 53883), (89, 53856),

Gene: Lulumae_59 Start: 54198, Stop: 53740, Start Num: 34

Candidate Starts for Lulumae_59:

(Start: 34 @54198 has 329 MA's), (40, 54102), (41, 54093), (54, 54018), (61, 53946), (81, 53880), (82, 53874), (84, 53868), (89, 53841),

Gene: Lulwa_59 Start: 53795, Stop: 53337, Start Num: 34

Candidate Starts for Lulwa_59:

(Start: 34 @53795 has 329 MA's), (40, 53699), (41, 53690), (54, 53615), (61, 53543), (81, 53477), (82, 53471), (84, 53465), (89, 53438),

Gene: Lumine_62 Start: 54682, Stop: 54224, Start Num: 34

Candidate Starts for Lumine_62:

(Start: 34 @54682 has 329 MA's), (40, 54586), (41, 54577), (54, 54502), (61, 54430), (81, 54364), (82, 54358), (84, 54352), (89, 54325),

Gene: MRabcd_61 Start: 54806, Stop: 54348, Start Num: 34

Candidate Starts for MRabcd_61:

(Start: 34 @54806 has 329 MA's), (40, 54710), (41, 54701), (54, 54626), (61, 54554), (81, 54488), (82, 54482), (84, 54476), (89, 54449),

Gene: Mag7_62 Start: 54642, Stop: 54184, Start Num: 34

Candidate Starts for Mag7_62:

(Start: 34 @54642 has 329 MA's), (40, 54546), (41, 54537), (54, 54462), (61, 54390), (81, 54324), (82, 54318), (84, 54312), (89, 54285),

Gene: Magic8_62 Start: 54800, Stop: 54336, Start Num: 34

Candidate Starts for Magic8_62:

(Start: 34 @54800 has 329 MA's), (40, 54704), (41, 54695), (54, 54620), (61, 54548), (81, 54482), (82, 54476), (84, 54470), (89, 54443),

Gene: Mana_60 Start: 54478, Stop: 54020, Start Num: 34

Candidate Starts for Mana_60:

(Start: 34 @54478 has 329 MA's), (40, 54382), (41, 54373), (54, 54298), (61, 54226), (81, 54160), (82, 54154), (84, 54148), (89, 54121),

Gene: Manad_61 Start: 54762, Stop: 54304, Start Num: 34

Candidate Starts for Manad_61:

(Start: 34 @54762 has 329 MA's), (40, 54666), (41, 54657), (54, 54582), (61, 54510), (81, 54444), (82, 54438), (84, 54432), (89, 54405),

Gene: Marley1013_62 Start: 55685, Stop: 55236, Start Num: 34

Candidate Starts for Marley1013_62:

(19, 55820), (22, 55799), (Start: 33 @55688 has 10 MA's), (Start: 34 @55685 has 329 MA's), (40, 55589), (54, 55523), (55, 55493), (66, 55421), (67, 55418), (68, 55409), (74, 55394), (86, 55361),

Gene: Maru_61 Start: 54917, Stop: 54459, Start Num: 34

Candidate Starts for Maru_61:

(Start: 34 @54917 has 329 MA's), (40, 54821), (41, 54812), (54, 54737), (61, 54665), (81, 54599), (82, 54593), (84, 54587), (89, 54560),

Gene: Maskar_63 Start: 54718, Stop: 54254, Start Num: 34

Candidate Starts for Maskar_63:

(Start: 34 @54718 has 329 MA's), (40, 54622), (41, 54613), (54, 54538), (61, 54466), (81, 54400), (82, 54394), (84, 54388), (89, 54361),

Gene: MasterPo_59 Start: 53371, Stop: 52880, Start Num: 34

Candidate Starts for MasterPo_59:

(Start: 34 @53371 has 329 MA's), (37, 53338), (40, 53278), (50, 53236), (54, 53233), (55, 53203), (60, 53164), (61, 53161), (63, 53158), (82, 53083), (88, 53044), (90, 53038), (93, 53020), (102, 52987), (108, 52969), (116, 52924),

Gene: Matalotodo_61 Start: 55030, Stop: 54572, Start Num: 34

Candidate Starts for Matalotodo_61:

(Start: 34 @55030 has 329 MA's), (40, 54934), (41, 54925), (54, 54850), (61, 54778), (81, 54712), (82, 54706), (84, 54700), (89, 54673),

Gene: Mcshane_60 Start: 54476, Stop: 54018, Start Num: 34

Candidate Starts for Mcshane_60:

(Start: 34 @54476 has 329 MA's), (40, 54380), (41, 54371), (54, 54296), (61, 54224), (81, 54158), (82, 54152), (84, 54146), (89, 54119),

Gene: Mecca_61 Start: 55041, Stop: 54583, Start Num: 34

Candidate Starts for Mecca_61:

(Start: 34 @55041 has 329 MA's), (40, 54945), (41, 54936), (54, 54861), (61, 54789), (81, 54723), (82, 54717), (84, 54711), (89, 54684),

Gene: Megamind20_62 Start: 54464, Stop: 54006, Start Num: 34

Candidate Starts for Megamind20_62:

(Start: 34 @54464 has 329 MA's), (40, 54368), (41, 54359), (54, 54284), (61, 54212), (81, 54146), (82, 54140), (84, 54134), (89, 54107),

Gene: Megatron_62 Start: 54990, Stop: 54532, Start Num: 34

Candidate Starts for Megatron_62:

(Start: 34 @54990 has 329 MA's), (40, 54894), (41, 54885), (54, 54810), (61, 54738), (81, 54672), (82, 54666), (84, 54660), (89, 54633),

Gene: Melc17_61 Start: 55307, Stop: 54849, Start Num: 34

Candidate Starts for Melc17_61:

(Start: 34 @55307 has 329 MA's), (40, 55211), (41, 55202), (54, 55127), (61, 55055), (81, 54989), (82, 54983), (84, 54977), (89, 54950),

Gene: MelsMeow_62 Start: 54771, Stop: 54307, Start Num: 34

Candidate Starts for MelsMeow_62:

(Start: 34 @54771 has 329 MA's), (40, 54675), (41, 54666), (54, 54591), (61, 54519), (81, 54453), (82, 54447), (84, 54441), (89, 54414),

Gene: Mesh1_63 Start: 55054, Stop: 54596, Start Num: 34

Candidate Starts for Mesh1_63:

(Start: 34 @55054 has 329 MA's), (40, 54958), (41, 54949), (54, 54874), (61, 54802), (81, 54736), (82, 54730), (84, 54724), (89, 54697),

Gene: MichaelPhcott_62 Start: 54639, Stop: 54181, Start Num: 34

Candidate Starts for MichaelPhcott_62:

(Start: 34 @54639 has 329 MA's), (40, 54543), (41, 54534), (54, 54459), (61, 54387), (81, 54321), (82, 54315), (84, 54309), (89, 54282),

Gene: Mikota_60 Start: 54017, Stop: 53559, Start Num: 34

Candidate Starts for Mikota_60:

(Start: 34 @54017 has 329 MA's), (40, 53921), (41, 53912), (54, 53837), (61, 53765), (81, 53699), (82, 53693), (84, 53687), (89, 53660),

Gene: MiniBoss_59 Start: 53823, Stop: 53365, Start Num: 34

Candidate Starts for MiniBoss_59:

(Start: 34 @53823 has 329 MA's), (40, 53727), (41, 53718), (54, 53643), (61, 53571), (81, 53505), (82, 53499), (84, 53493), (89, 53466),

Gene: MitKao_61 Start: 54488, Stop: 54030, Start Num: 34

Candidate Starts for MitKao_61:

(Start: 34 @54488 has 329 MA's), (40, 54392), (41, 54383), (54, 54308), (61, 54236), (81, 54170), (82, 54164), (84, 54158), (89, 54131),

Gene: MmasiCarm_63 Start: 55414, Stop: 54938, Start Num: 34

Candidate Starts for MmasiCarm_63:

(19, 55549), (22, 55528), (Start: 33 @55417 has 10 MA's), (Start: 34 @55414 has 329 MA's), (40, 55318), (54, 55252), (55, 55222), (66, 55150), (67, 55147), (68, 55138), (74, 55123), (86, 55066),

Gene: Morgushi_61 Start: 54477, Stop: 54019, Start Num: 34

Candidate Starts for Morgushi_61:

(Start: 34 @54477 has 329 MA's), (40, 54381), (41, 54372), (54, 54297), (61, 54225), (81, 54159), (82, 54153), (84, 54147), (89, 54120),

Gene: Mortcellus_62 Start: 56075, Stop: 55593, Start Num: 33

Candidate Starts for Mortcellus_62:

(19, 56207), (22, 56186), (Start: 33 @56075 has 10 MA's), (Start: 34 @56072 has 329 MA's), (40, 55976), (54, 55910), (55, 55880), (66, 55808), (67, 55805), (68, 55796), (74, 55781), (86, 55724),

Gene: Morty_62 Start: 55005, Stop: 54541, Start Num: 34

Candidate Starts for Morty_62:

(Start: 34 @55005 has 329 MA's), (40, 54909), (41, 54900), (54, 54825), (61, 54753), (81, 54687), (82, 54681), (84, 54675), (89, 54648),

Gene: Mosaic_60 Start: 54482, Stop: 54024, Start Num: 34

Candidate Starts for Mosaic_60:

(Start: 34 @54482 has 329 MA's), (40, 54386), (41, 54377), (54, 54302), (61, 54230), (81, 54164), (82, 54158), (84, 54152), (89, 54125),

Gene: MrPhizzler_62 Start: 54945, Stop: 54487, Start Num: 34

Candidate Starts for MrPhizzler_62:

(Start: 34 @54945 has 329 MA's), (40, 54849), (41, 54840), (54, 54765), (61, 54693), (81, 54627), (82, 54621), (84, 54615), (89, 54588),

Gene: Mulan_61 Start: 54716, Stop: 54258, Start Num: 34

Candidate Starts for Mulan_61:

(Start: 34 @54716 has 329 MA's), (40, 54620), (41, 54611), (54, 54536), (61, 54464), (81, 54398), (82, 54392), (84, 54386), (89, 54359),

Gene: Murdoc_60 Start: 54478, Stop: 54020, Start Num: 34

Candidate Starts for Murdoc_60:

(Start: 34 @54478 has 329 MA's), (40, 54382), (41, 54373), (54, 54298), (61, 54226), (81, 54160), (82, 54154), (84, 54148), (89, 54121),

Gene: Mutante_61 Start: 54488, Stop: 54030, Start Num: 34

Candidate Starts for Mutante_61:

(Start: 34 @54488 has 329 MA's), (40, 54392), (41, 54383), (54, 54308), (61, 54236), (81, 54170), (82, 54164), (84, 54158), (89, 54131),

Gene: Mysterious_59 Start: 55230, Stop: 54571, Start Num: 29

Candidate Starts for Mysterious_59:

(Start: 29 @55230 has 10 MA's), (37, 55188), (38, 55173), (53, 55041), (55, 55008), (57, 54987), (60, 54969), (64, 54951), (75, 54903), (78, 54894), (96, 54819), (97, 54813), (111, 54741), (112, 54729),

Gene: Nacho_0063 Start: 55236, Stop: 54778, Start Num: 34

Candidate Starts for Nacho_0063:

(Start: 34 @55236 has 329 MA's), (40, 55140), (41, 55131), (54, 55056), (61, 54984), (81, 54918), (82, 54912), (84, 54906), (89, 54879),

Gene: Nangang_59 Start: 55409, Stop: 54777, Start Num: 29

Candidate Starts for Nangang_59:

(Start: 29 @55409 has 10 MA's), (37, 55367), (53, 55220), (55, 55187), (57, 55166), (60, 55148), (74, 55094), (76, 55082), (87, 55031), (96, 55001), (97, 54995), (102, 54968), (103, 54965),

Gene: Nehemiah_58 Start: 55230, Stop: 54571, Start Num: 29

Candidate Starts for Nehemiah_58:

(Start: 29 @55230 has 10 MA's), (37, 55188), (38, 55173), (53, 55041), (55, 55008), (57, 54987), (60, 54969), (64, 54951), (75, 54903), (78, 54894), (96, 54819), (97, 54813), (111, 54741), (112, 54729),

Gene: Neos5_61 Start: 55147, Stop: 54698, Start Num: 34

Candidate Starts for Neos5_61:

(19, 55282), (22, 55261), (Start: 33 @55150 has 10 MA's), (Start: 34 @55147 has 329 MA's), (40, 55051), (54, 54985), (55, 54955), (66, 54883), (67, 54880), (68, 54871), (74, 54856), (86, 54823),

Gene: Newman_60 Start: 54514, Stop: 54056, Start Num: 34

Candidate Starts for Newman_60:

(Start: 34 @54514 has 329 MA's), (40, 54418), (41, 54409), (54, 54334), (61, 54262), (81, 54196), (82, 54190), (84, 54184), (89, 54157),

Gene: Nicole21_62 Start: 54767, Stop: 54309, Start Num: 34

Candidate Starts for Nicole21_62:

(Start: 34 @54767 has 329 MA's), (40, 54671), (41, 54662), (54, 54587), (61, 54515), (81, 54449), (82, 54443), (84, 54437), (89, 54410),

Gene: Nigel_56 Start: 54670, Stop: 54173, Start Num: 25

Candidate Starts for Nigel_56:

(Start: 25 @54670 has 1 MA's), (40, 54559), (41, 54550), (52, 54511), (54, 54505), (57, 54454), (60, 54436), (61, 54433), (62, 54427), (79, 54355), (92, 54286),

Gene: Nozo_62 Start: 55768, Stop: 55292, Start Num: 34

Candidate Starts for Nozo_62:

(19, 55903), (22, 55882), (Start: 33 @55771 has 10 MA's), (Start: 34 @55768 has 329 MA's), (40, 55672), (54, 55606), (55, 55576), (66, 55504), (67, 55501), (68, 55492), (74, 55477), (86, 55420),

Gene: Numberten_61 Start: 54711, Stop: 54253, Start Num: 34

Candidate Starts for Numberten_61:

(Start: 34 @54711 has 329 MA's), (40, 54615), (41, 54606), (54, 54531), (61, 54459), (81, 54393), (82, 54387), (84, 54381), (89, 54354),

Gene: Nyala_60 Start: 54486, Stop: 54028, Start Num: 34

Candidate Starts for Nyala_60:

(Start: 34 @54486 has 329 MA's), (40, 54390), (41, 54381), (54, 54306), (61, 54234), (81, 54168), (82, 54162), (84, 54156), (89, 54129),

Gene: OSmaximus_63 Start: 55232, Stop: 54774, Start Num: 34

Candidate Starts for OSmaximus_63:

(Start: 34 @55232 has 329 MA's), (40, 55136), (41, 55127), (54, 55052), (61, 54980), (81, 54914), (82, 54908), (84, 54902), (89, 54875),

Gene: Obutu_63 Start: 55367, Stop: 54891, Start Num: 34

Candidate Starts for Obutu_63:

(8, 55760), (10, 55634), (12, 55616), (19, 55502), (22, 55481), (Start: 33 @55370 has 10 MA's), (Start: 34 @55367 has 329 MA's), (40, 55271), (54, 55205), (55, 55175), (66, 55103), (67, 55100), (68, 55091), (74, 55076), (86, 55019),

Gene: Olak_60 Start: 54489, Stop: 54031, Start Num: 34

Candidate Starts for Olak_60:

(Start: 34 @54489 has 329 MA's), (40, 54393), (41, 54384), (54, 54309), (61, 54237), (81, 54171), (82, 54165), (84, 54159), (89, 54132),

Gene: Oline_62 Start: 54590, Stop: 54132, Start Num: 34

Candidate Starts for Oline_62:

(Start: 34 @54590 has 329 MA's), (40, 54494), (41, 54485), (54, 54410), (61, 54338), (81, 54272), (82, 54266), (84, 54260), (89, 54233),

Gene: Olive_61 Start: 54702, Stop: 54244, Start Num: 34

Candidate Starts for Olive_61:

(Start: 34 @54702 has 329 MA's), (40, 54606), (41, 54597), (54, 54522), (61, 54450), (81, 54384), (82, 54378), (84, 54372), (89, 54345),

Gene: OliverWalter_60 Start: 54521, Stop: 54063, Start Num: 34

Candidate Starts for OliverWalter_60:

(Start: 34 @54521 has 329 MA's), (40, 54425), (41, 54416), (54, 54341), (61, 54269), (81, 54203), (82, 54197), (84, 54191), (89, 54164),

Gene: Omniscient_62 Start: 55349, Stop: 54891, Start Num: 34

Candidate Starts for Omniscient_62:

(Start: 34 @55349 has 329 MA's), (40, 55253), (41, 55244), (54, 55169), (61, 55097), (81, 55031), (82, 55025), (84, 55019), (89, 54992),

Gene: Oosterbaan_61 Start: 54768, Stop: 54310, Start Num: 34

Candidate Starts for Oosterbaan_61:

(Start: 34 @54768 has 329 MA's), (40, 54672), (41, 54663), (54, 54588), (61, 54516), (81, 54450), (82, 54444), (84, 54438), (89, 54411),

Gene: Opia_59 Start: 53365, Stop: 52874, Start Num: 34

Candidate Starts for Opia_59:

(1, 54145), (2, 54055), (4, 53929), (5, 53905), (23, 53467), (Start: 34 @53365 has 329 MA's), (37, 53332), (40, 53272), (50, 53230), (54, 53227), (55, 53197), (60, 53158), (61, 53155), (63, 53152), (82, 53077), (88, 53038), (90, 53032), (93, 53014), (102, 52981), (108, 52963), (116, 52918),

Gene: OrangeOswald_62 Start: 55009, Stop: 54533, Start Num: 34

Candidate Starts for OrangeOswald_62:

(19, 55144), (22, 55123), (Start: 33 @55012 has 10 MA's), (Start: 34 @55009 has 329 MA's), (40, 54913), (54, 54847), (55, 54817), (66, 54745), (67, 54742), (68, 54733), (74, 54718), (86, 54661),

Gene: Orfeu_60 Start: 55025, Stop: 54567, Start Num: 34

Candidate Starts for Orfeu_60:

(Start: 34 @55025 has 329 MA's), (40, 54929), (41, 54920), (54, 54845), (61, 54773), (81, 54707), (82, 54701), (84, 54695), (89, 54668),

Gene: Orion_63 Start: 54430, Stop: 53972, Start Num: 34

Candidate Starts for Orion_63:

(Start: 34 @54430 has 329 MA's), (40, 54334), (41, 54325), (54, 54250), (61, 54178), (81, 54112), (82, 54106), (84, 54100), (89, 54073),

Gene: Orwigg_62 Start: 54410, Stop: 53952, Start Num: 34

Candidate Starts for Orwigg_62:

(Start: 34 @54410 has 329 MA's), (40, 54314), (41, 54305), (54, 54230), (61, 54158), (81, 54092), (82, 54086), (84, 54080), (89, 54053),

Gene: PG1_62 Start: 55001, Stop: 54543, Start Num: 34

Candidate Starts for PG1_62:

(Start: 34 @55001 has 329 MA's), (40, 54905), (41, 54896), (54, 54821), (61, 54749), (81, 54683), (82, 54677), (84, 54671), (89, 54644),

Gene: Pacifista_60 Start: 54485, Stop: 54027, Start Num: 34

Candidate Starts for Pacifista_60:

(Start: 34 @54485 has 329 MA's), (40, 54389), (41, 54380), (54, 54305), (61, 54233), (81, 54167), (82, 54161), (84, 54155), (89, 54128),

Gene: PenguinLover67_57 Start: 55284, Stop: 54688, Start Num: 26

Candidate Starts for PenguinLover67_57:

(22, 55380), (Start: 26 @55284 has 3 MA's), (40, 55176), (52, 55137), (57, 55083), (60, 55065), (73, 55011), (95, 54915), (101, 54888), (102, 54885), (113, 54840), (137, 54708),

Gene: Phamished_63 Start: 54698, Stop: 54234, Start Num: 34

Candidate Starts for Phamished_63:

(Start: 34 @54698 has 329 MA's), (40, 54602), (41, 54593), (54, 54518), (61, 54446), (81, 54380), (82, 54374), (84, 54368), (89, 54341),

Gene: Phantasmagoria_59 Start: 53363, Stop: 52872, Start Num: 34

Candidate Starts for Phantasmagoria_59:

(23, 53465), (Start: 34 @53363 has 329 MA's), (37, 53330), (40, 53270), (50, 53228), (54, 53225), (55, 53195), (60, 53156), (61, 53153), (63, 53150), (82, 53075), (88, 53036), (90, 53030), (93, 53012), (102, 52979), (108, 52961), (116, 52916),

Gene: Phareon_60 Start: 54207, Stop: 53749, Start Num: 34

Candidate Starts for Phareon_60:

(Start: 34 @54207 has 329 MA's), (40, 54111), (41, 54102), (54, 54027), (61, 53955), (81, 53889), (82, 53883), (84, 53877), (89, 53850),

Gene: PhatCats2014_62 Start: 55006, Stop: 54548, Start Num: 34

Candidate Starts for PhatCats2014_62:

(Start: 34 @55006 has 329 MA's), (40, 54910), (41, 54901), (54, 54826), (61, 54754), (81, 54688), (82, 54682), (84, 54676), (89, 54649),

Gene: PhatLouie_63 Start: 55024, Stop: 54566, Start Num: 34

Candidate Starts for PhatLouie_63:

(Start: 34 @55024 has 329 MA's), (40, 54928), (41, 54919), (54, 54844), (61, 54772), (81, 54706), (82, 54700), (84, 54694), (89, 54667),

Gene: Phayeta_64 Start: 55269, Stop: 54793, Start Num: 34

Candidate Starts for Phayeta_64:

(Start: 33 @55272 has 10 MA's), (Start: 34 @55269 has 329 MA's), (40, 55173), (54, 55107), (55, 55077), (66, 55005), (67, 55002), (68, 54993), (74, 54978), (86, 54921),

Gene: Phelemich_57 Start: 55226, Stop: 54567, Start Num: 29

Candidate Starts for Phelemich_57:

(Start: 29 @55226 has 10 MA's), (37, 55184), (38, 55169), (53, 55037), (55, 55004), (57, 54983), (60, 54965), (73, 54908), (75, 54896), (96, 54815), (97, 54809), (98, 54806), (111, 54737), (112, 54725),

Gene: PhenghisKhan_62 Start: 54655, Stop: 54191, Start Num: 34

Candidate Starts for PhenghisKhan_62:

(Start: 34 @54655 has 329 MA's), (40, 54559), (41, 54550), (54, 54475), (61, 54403), (81, 54337), (82, 54331), (84, 54325), (89, 54298),

Gene: Pherdinand_63 Start: 54769, Stop: 54311, Start Num: 34

Candidate Starts for Pherdinand_63:

(Start: 34 @54769 has 329 MA's), (40, 54673), (41, 54664), (54, 54589), (61, 54517), (81, 54451), (82, 54445), (84, 54439), (89, 54412),

Gene: Phergie_63 Start: 54647, Stop: 54183, Start Num: 34

Candidate Starts for Phergie_63:

(Start: 34 @54647 has 329 MA's), (40, 54551), (41, 54542), (54, 54467), (61, 54395), (81, 54329), (82, 54323), (84, 54317), (89, 54290),

Gene: Philly_61 Start: 54829, Stop: 54353, Start Num: 34

Candidate Starts for Philly_61:

(8, 55222), (10, 55096), (12, 55078), (19, 54964), (22, 54943), (Start: 33 @54832 has 10 MA's), (Start: 34 @54829 has 329 MA's), (40, 54733), (54, 54667), (55, 54637), (66, 54565), (67, 54562), (68, 54553), (74, 54538), (86, 54481),

Gene: Phipps_61 Start: 54278, Stop: 53820, Start Num: 34

Candidate Starts for Phipps_61:

(Start: 34 @54278 has 329 MA's), (40, 54182), (41, 54173), (54, 54098), (61, 54026), (81, 53960), (82, 53954), (84, 53948), (89, 53921),

Gene: Phleuron_62 Start: 54642, Stop: 54184, Start Num: 34

Candidate Starts for Phleuron_62:

(Start: 34 @54642 has 329 MA's), (40, 54546), (41, 54537), (54, 54462), (61, 54390), (81, 54324), (82, 54318), (84, 54312), (89, 54285),

Gene: Phlyer_62 Start: 55723, Stop: 55235, Start Num: 34

Candidate Starts for Phlyer_62:

(19, 55858), (22, 55837), (Start: 33 @55726 has 10 MA's), (Start: 34 @55723 has 329 MA's), (40, 55627), (54, 55561), (55, 55531), (61, 55489), (66, 55459), (67, 55456), (68, 55447), (74, 55432), (86, 55369),

Gene: PhrankReynolds_61 Start: 54652, Stop: 54188, Start Num: 34

Candidate Starts for PhrankReynolds_61:

(Start: 34 @54652 has 329 MA's), (40, 54556), (41, 54547), (54, 54472), (61, 54400), (81, 54334), (82, 54328), (84, 54322), (89, 54295),

Gene: PhrodoBaggins_62 Start: 54872, Stop: 54408, Start Num: 34

Candidate Starts for PhrodoBaggins_62:

(Start: 34 @54872 has 329 MA's), (40, 54776), (41, 54767), (54, 54692), (61, 54620), (81, 54554), (82, 54548), (84, 54542), (89, 54515),

Gene: Phunky_60 Start: 54504, Stop: 54046, Start Num: 34

Candidate Starts for Phunky_60:

(Start: 34 @54504 has 329 MA's), (40, 54408), (41, 54399), (54, 54324), (61, 54252), (81, 54186), (82, 54180), (84, 54174), (89, 54147),

Gene: Piglet_0061 Start: 54978, Stop: 54520, Start Num: 34

Candidate Starts for Piglet_0061:

(Start: 34 @54978 has 329 MA's), (40, 54882), (41, 54873), (54, 54798), (61, 54726), (81, 54660), (82, 54654), (84, 54648), (89, 54621),

Gene: PinheadLarry_62 Start: 55003, Stop: 54545, Start Num: 34

Candidate Starts for PinheadLarry_62:

(Start: 34 @55003 has 329 MA's), (40, 54907), (41, 54898), (54, 54823), (61, 54751), (81, 54685), (82, 54679), (84, 54673), (89, 54646),

Gene: Pinkman_61 Start: 54590, Stop: 54126, Start Num: 34

Candidate Starts for Pinkman_61:

(Start: 34 @54590 has 329 MA's), (40, 54494), (41, 54485), (54, 54410), (61, 54338), (81, 54272), (82, 54266), (84, 54260), (89, 54233),

Gene: Pipefish_63 Start: 55749, Stop: 55264, Start Num: 33

Candidate Starts for Pipefish_63:

(Start: 33 @55749 has 10 MA's), (Start: 34 @55746 has 329 MA's), (40, 55650), (54, 55584), (55, 55554), (61, 55512), (66, 55482), (67, 55479), (68, 55470), (74, 55455), (86, 55395),

Gene: Pipsqueak_60 Start: 54434, Stop: 53976, Start Num: 34

Candidate Starts for Pipsqueak_60:

(Start: 34 @54434 has 329 MA's), (40, 54338), (41, 54329), (54, 54254), (61, 54182), (81, 54116), (82, 54110), (84, 54104), (89, 54077),

Gene: Placalicious_62 Start: 55535, Stop: 55077, Start Num: 34

Candidate Starts for Placalicious_62:

(Start: 34 @55535 has 329 MA's), (40, 55439), (41, 55430), (54, 55355), (61, 55283), (81, 55217), (82, 55211), (84, 55205), (89, 55178),

Gene: Plmatters_60 Start: 54508, Stop: 54050, Start Num: 34

Candidate Starts for Plmatters_60:

(Start: 34 @54508 has 329 MA's), (40, 54412), (41, 54403), (54, 54328), (61, 54256), (81, 54190), (82, 54184), (84, 54178), (89, 54151),

Gene: Podrick_60 Start: 54287, Stop: 53829, Start Num: 34

Candidate Starts for Podrick_60:

(Start: 34 @54287 has 329 MA's), (40, 54191), (41, 54182), (54, 54107), (61, 54035), (81, 53969), (82, 53963), (84, 53957), (89, 53930),

Gene: Pops_61 Start: 54693, Stop: 54235, Start Num: 34

Candidate Starts for Pops_61:

(Start: 34 @54693 has 329 MA's), (40, 54597), (41, 54588), (54, 54513), (61, 54441), (81, 54375), (82, 54369), (84, 54363), (89, 54336),

Gene: Potter_60 Start: 54499, Stop: 54041, Start Num: 34

Candidate Starts for Potter_60:

(Start: 34 @54499 has 329 MA's), (40, 54403), (41, 54394), (54, 54319), (61, 54247), (81, 54181), (82, 54175), (84, 54169), (89, 54142),

Gene: Prickles_63 Start: 54999, Stop: 54541, Start Num: 34

Candidate Starts for Prickles_63:

(Start: 34 @54999 has 329 MA's), (40, 54903), (41, 54894), (54, 54819), (61, 54747), (81, 54681), (82, 54675), (84, 54669), (89, 54642),

Gene: ProfessorX_61 Start: 54498, Stop: 54040, Start Num: 34

Candidate Starts for ProfessorX_61:

(Start: 34 @54498 has 329 MA's), (40, 54402), (41, 54393), (54, 54318), (61, 54246), (81, 54180), (82, 54174), (84, 54168), (89, 54141),

Gene: Puhltonio_61 Start: 54773, Stop: 54315, Start Num: 34

Candidate Starts for Puhltonio_61:

(Start: 34 @54773 has 329 MA's), (40, 54677), (41, 54668), (54, 54593), (61, 54521), (81, 54455), (82, 54449), (84, 54443), (89, 54416),

Gene: QueenBeane_61 Start: 54805, Stop: 54347, Start Num: 34

Candidate Starts for QueenBeane_61:

(Start: 34 @54805 has 329 MA's), (40, 54709), (41, 54700), (54, 54625), (61, 54553), (81, 54487), (82, 54481), (84, 54475), (89, 54448),

Gene: Quesadilla_59 Start: 55551, Stop: 54994, Start Num: 26

Candidate Starts for Quesadilla_59:

(22, 55647), (Start: 26 @55551 has 3 MA's), (35, 55533), (39, 55467), (40, 55443), (52, 55404), (57, 55350), (60, 55332), (79, 55254), (95, 55182), (101, 55155), (113, 55107), (124, 55062), (125, 55059), (131, 55023), (133, 55014), (134, 55008),

Gene: Quisquilliae_62 Start: 54766, Stop: 54308, Start Num: 34

Candidate Starts for Quisquilliae_62:

(Start: 34 @54766 has 329 MA's), (40, 54670), (41, 54661), (54, 54586), (61, 54514), (81, 54448), (82, 54442), (84, 54436), (89, 54409),

Gene: Qyrzula_54 Start: 53476, Stop: 52985, Start Num: 34

Candidate Starts for Qyrzula_54:

(2, 54166), (4, 54040), (5, 54016), (23, 53578), (Start: 34 @53476 has 329 MA's), (37, 53443), (40, 53383), (50, 53341), (54, 53338), (55, 53308), (60, 53269), (61, 53266), (63, 53263), (82, 53188), (88, 53149), (90, 53143), (93, 53125), (102, 53092), (108, 53074), (116, 53029),

Gene: RagingRooster_61 Start: 54660, Stop: 54181, Start Num: 33

Candidate Starts for RagingRooster_61:

(19, 54792), (22, 54771), (Start: 33 @54660 has 10 MA's), (Start: 34 @54657 has 329 MA's), (40, 54561), (54, 54495), (55, 54465), (66, 54393), (67, 54390), (68, 54381), (74, 54366), (86, 54309),

Gene: RedMaple_63 Start: 55241, Stop: 54783, Start Num: 34

Candidate Starts for RedMaple_63:

(Start: 34 @55241 has 329 MA's), (40, 55145), (41, 55136), (46, 55097), (54, 55061), (61, 54989), (81, 54923), (82, 54917), (84, 54911), (89, 54884),

Gene: Reprobate_58 Start: 55231, Stop: 54572, Start Num: 29

Candidate Starts for Reprobate_58:

(Start: 29 @55231 has 10 MA's), (37, 55189), (38, 55174), (53, 55042), (55, 55009), (57, 54988), (60, 54970), (73, 54913), (75, 54901), (96, 54820), (97, 54814), (98, 54811), (111, 54742), (112, 54730),

Gene: Rhinoforte_59 Start: 53472, Stop: 52984, Start Num: 34

Candidate Starts for Rhinoforte_59:

(Start: 34 @53472 has 329 MA's), (37, 53439), (40, 53379), (50, 53337), (54, 53334), (55, 53304), (60, 53265), (61, 53262), (63, 53259), (82, 53184), (88, 53145), (90, 53139), (93, 53121), (102, 53088), (103, 53085), (108, 53070), (116, 53025),

Gene: Rich_59 Start: 56438, Stop: 55833, Start Num: 29

Candidate Starts for Rich_59:

(13, 56660), (20, 56555), (Start: 29 @56438 has 10 MA's), (37, 56396), (41, 56327), (53, 56282), (55, 56252), (57, 56231), (60, 56213), (78, 56138), (89, 56087), (102, 56036), (106, 56024), (107, 56015), (122, 55952),

Gene: Ricotta_61 Start: 54498, Stop: 54040, Start Num: 34

Candidate Starts for Ricotta_61:

(Start: 34 @54498 has 329 MA's), (40, 54402), (41, 54393), (54, 54318), (61, 54246), (81, 54180), (82, 54174), (84, 54168), (89, 54141),

Gene: Riggan_62 Start: 54798, Stop: 54340, Start Num: 34

Candidate Starts for Riggan_62:

(Start: 34 @54798 has 329 MA's), (40, 54702), (41, 54693), (54, 54618), (61, 54546), (81, 54480), (82, 54474), (84, 54468), (89, 54441),

Gene: Rimu_64 Start: 54966, Stop: 54508, Start Num: 34

Candidate Starts for Rimu_64:

(Start: 34 @54966 has 329 MA's), (40, 54870), (41, 54861), (54, 54786), (61, 54714), (81, 54648), (82, 54642), (84, 54636), (89, 54609),

Gene: Rinkes_57 Start: 55106, Stop: 54540, Start Num: 28

Candidate Starts for Rinkes_57:

(11, 55361), (17, 55250), (Start: 28 @55106 has 2 MA's), (32, 55091), (40, 54983), (41, 54974), (53, 54917), (55, 54887), (61, 54845), (66, 54818), (67, 54815), (72, 54800), (84, 54752), (89, 54725), (93, 54707), (105, 54665), (108, 54656), (129, 54554), (130, 54551),

Gene: Rita1961_63 Start: 55367, Stop: 54891, Start Num: 34

Candidate Starts for Rita1961_63:

(19, 55502), (22, 55481), (Start: 33 @55370 has 10 MA's), (Start: 34 @55367 has 329 MA's), (40, 55271), (54, 55205), (55, 55175), (66, 55103), (67, 55100), (68, 55091), (74, 55076), (86, 55019),

Gene: Robyn_61 Start: 54645, Stop: 54187, Start Num: 34

Candidate Starts for Robyn_61:

(Start: 34 @54645 has 329 MA's), (40, 54549), (41, 54540), (54, 54465), (61, 54393), (81, 54327), (82, 54321), (84, 54315), (89, 54288), (109, 54219),

Gene: Roliet_59 Start: 53840, Stop: 53382, Start Num: 34

Candidate Starts for Roliet_59:

(Start: 34 @53840 has 329 MA's), (40, 53744), (41, 53735), (54, 53660), (61, 53588), (81, 53522), (82, 53516), (84, 53510), (89, 53483),

Gene: RomaT_62 Start: 55569, Stop: 55090, Start Num: 33

Candidate Starts for RomaT_62:

(19, 55701), (22, 55680), (Start: 33 @55569 has 10 MA's), (Start: 34 @55566 has 329 MA's), (40, 55470), (54, 55404), (55, 55374), (66, 55302), (67, 55299), (68, 55290), (74, 55275), (86, 55218),

Gene: Roscoe_62 Start: 54944, Stop: 54486, Start Num: 34

Candidate Starts for Roscoe_62:

(Start: 34 @54944 has 329 MA's), (40, 54848), (41, 54839), (54, 54764), (61, 54692), (81, 54626), (82, 54620), (84, 54614), (89, 54587),

Gene: Rosebush_58 Start: 53499, Stop: 53011, Start Num: 34

Candidate Starts for Rosebush_58:

(Start: 34 @53499 has 329 MA's), (37, 53466), (40, 53406), (50, 53364), (54, 53361), (55, 53331), (60, 53292), (61, 53289), (63, 53286), (82, 53211), (88, 53172), (90, 53166), (93, 53148), (102, 53115), (108, 53097), (116, 53052),

Gene: Roy17_60 Start: 54198, Stop: 53740, Start Num: 34

Candidate Starts for Roy17_60:

(Start: 34 @54198 has 329 MA's), (40, 54102), (41, 54093), (54, 54018), (61, 53946), (81, 53880), (82, 53874), (84, 53868), (89, 53841),

Gene: SDcharge11_61 Start: 54012, Stop: 53554, Start Num: 34

Candidate Starts for SDcharge11_61:

(Start: 34 @54012 has 329 MA's), (40, 53916), (41, 53907), (54, 53832), (61, 53760), (81, 53694), (82, 53688), (84, 53682), (89, 53655),

Gene: Sabella_58 Start: 53335, Stop: 52856, Start Num: 34

Candidate Starts for Sabella_58:

(Start: 34 @53335 has 329 MA's), (37, 53302), (40, 53242), (50, 53200), (54, 53197), (55, 53167), (60, 53128), (61, 53125), (63, 53122), (88, 53017), (90, 53011), (93, 52993), (102, 52960), (108, 52942), (116, 52897),

Gene: Samaymay_61 Start: 54805, Stop: 54347, Start Num: 34

Candidate Starts for Samaymay_61:

(Start: 34 @54805 has 329 MA's), (40, 54709), (41, 54700), (54, 54625), (61, 54553), (81, 54487), (82, 54481), (84, 54475), (89, 54448),

Gene: SassyCat97_60 Start: 54490, Stop: 54032, Start Num: 34

Candidate Starts for SassyCat97_60:

(Start: 34 @54490 has 329 MA's), (40, 54394), (41, 54385), (54, 54310), (61, 54238), (81, 54172), (82, 54166), (84, 54160), (89, 54133),

Gene: Schadenfreude_61 Start: 54370, Stop: 53912, Start Num: 34

Candidate Starts for Schadenfreude_61:

(Start: 34 @54370 has 329 MA's), (40, 54274), (41, 54265), (54, 54190), (61, 54118), (81, 54052), (82, 54046), (84, 54040), (89, 54013),

Gene: Schueller_63 Start: 54727, Stop: 54269, Start Num: 34

Candidate Starts for Schueller_63:

(Start: 34 @54727 has 329 MA's), (40, 54631), (41, 54622), (54, 54547), (61, 54475), (81, 54409), (82, 54403), (84, 54397), (89, 54370),

Gene: Scoot17C_62 Start: 54432, Stop: 53974, Start Num: 34

Candidate Starts for Scoot17C_62:

(Start: 34 @54432 has 329 MA's), (40, 54336), (41, 54327), (54, 54252), (61, 54180), (81, 54114), (82, 54108), (84, 54102), (89, 54075),

Gene: Scrick_62 Start: 54504, Stop: 54046, Start Num: 34

Candidate Starts for Scrick_62:

(Start: 34 @54504 has 329 MA's), (40, 54408), (41, 54399), (54, 54324), (61, 54252), (81, 54186), (82, 54180), (84, 54174), (89, 54147),

Gene: Selr12_62 Start: 54514, Stop: 54056, Start Num: 34

Candidate Starts for Selr12_62:

(Start: 34 @54514 has 329 MA's), (40, 54418), (41, 54409), (54, 54334), (61, 54262), (81, 54196), (82, 54190), (84, 54184), (89, 54157),

Gene: Serendipitous_58 Start: 54821, Stop: 54153, Start Num: 29

Candidate Starts for Serendipitous_58:

(Start: 29 @54821 has 10 MA's), (37, 54779), (53, 54632), (55, 54599), (57, 54578), (60, 54560), (76, 54494), (102, 54386), (106, 54374),

Gene: Serendipity_61 Start: 54787, Stop: 54329, Start Num: 34

Candidate Starts for Serendipity_61:

(Start: 34 @54787 has 329 MA's), (40, 54691), (41, 54682), (54, 54607), (61, 54535), (81, 54469), (82, 54463), (84, 54457), (89, 54430),

Gene: Serpentine_0061 Start: 54870, Stop: 54412, Start Num: 34

Candidate Starts for Serpentine_0061:

(Start: 34 @54870 has 329 MA's), (40, 54774), (41, 54765), (54, 54690), (61, 54618), (81, 54552), (82, 54546), (84, 54540), (89, 54513),

Gene: Sheila_59 Start: 53872, Stop: 53414, Start Num: 34

Candidate Starts for Sheila_59:

(Start: 34 @53872 has 329 MA's), (40, 53776), (41, 53767), (54, 53692), (61, 53620), (81, 53554), (82, 53548), (84, 53542), (89, 53515),

Gene: Shenyu_59 Start: 55433, Stop: 54810, Start Num: 29

Candidate Starts for Shenyu_59:

(7, 55958), (13, 55652), (Start: 29 @55433 has 10 MA's), (37, 55391), (53, 55244), (55, 55211), (56, 55205), (57, 55190), (60, 55172), (74, 55118), (76, 55106), (102, 54998), (106, 54986),

Gene: ShiVal_59 Start: 54509, Stop: 54051, Start Num: 34

Candidate Starts for ShiVal_59:

(Start: 34 @54509 has 329 MA's), (40, 54413), (41, 54404), (54, 54329), (61, 54257), (81, 54191), (82, 54185), (84, 54179), (89, 54152),

Gene: Sigman_62 Start: 54465, Stop: 54007, Start Num: 34

Candidate Starts for Sigman_62:

(Start: 34 @54465 has 329 MA's), (40, 54369), (41, 54360), (54, 54285), (61, 54213), (81, 54147), (82, 54141), (84, 54135), (89, 54108),

Gene: SilverBell_62 Start: 54750, Stop: 54292, Start Num: 34

Candidate Starts for SilverBell_62:

(Start: 34 @54750 has 329 MA's), (40, 54654), (41, 54645), (54, 54570), (61, 54498), (81, 54432), (82, 54426), (84, 54420), (89, 54393),

Gene: Simielle_61 Start: 54469, Stop: 54011, Start Num: 34

Candidate Starts for Simielle_61:

(Start: 34 @54469 has 329 MA's), (40, 54373), (41, 54364), (54, 54289), (61, 54217), (81, 54151), (82, 54145), (84, 54139), (89, 54112),

Gene: SirJeffery_58 Start: 55185, Stop: 54502, Start Num: 29

Candidate Starts for SirJeffery_58:

(18, 55311), (Start: 29 @55185 has 10 MA's), (37, 55143), (53, 54996), (55, 54963), (57, 54942), (60, 54924), (64, 54906), (102, 54759), (106, 54747), (107, 54738), (122, 54663),

Gene: Skippy_62 Start: 54723, Stop: 54265, Start Num: 34

Candidate Starts for Skippy_62:

(Start: 34 @54723 has 329 MA's), (40, 54627), (41, 54618), (54, 54543), (61, 54471), (81, 54405), (82, 54399), (84, 54393), (89, 54366),

Gene: Slatt_62 Start: 54788, Stop: 54330, Start Num: 34

Candidate Starts for Slatt_62:

(Start: 34 @54788 has 329 MA's), (40, 54692), (41, 54683), (54, 54608), (61, 54536), (81, 54470), (82, 54464), (84, 54458), (89, 54431),

Gene: SlippinJimmy_64 Start: 56167, Stop: 55691, Start Num: 34

Candidate Starts for SlippinJimmy_64:

(19, 56302), (22, 56281), (Start: 33 @56170 has 10 MA's), (Start: 34 @56167 has 329 MA's), (40, 56071), (54, 56005), (55, 55975), (66, 55903), (67, 55900), (68, 55891), (74, 55876), (86, 55819),

Gene: Soile_62 Start: 55018, Stop: 54554, Start Num: 34

Candidate Starts for Soile_62:

(Start: 34 @55018 has 329 MA's), (40, 54922), (41, 54913), (54, 54838), (61, 54766), (81, 54700), (82, 54694), (84, 54688), (89, 54661),

Gene: Solosis_60 Start: 54484, Stop: 54026, Start Num: 34

Candidate Starts for Solosis_60:

(Start: 34 @54484 has 329 MA's), (40, 54388), (41, 54379), (54, 54304), (61, 54232), (81, 54166), (82, 54160), (84, 54154), (89, 54127),

Gene: Sophia_60 Start: 54478, Stop: 54020, Start Num: 34

Candidate Starts for Sophia_60:

(Start: 34 @54478 has 329 MA's), (40, 54382), (41, 54373), (54, 54298), (61, 54226), (81, 54160), (82, 54154), (84, 54148), (89, 54121),

Gene: Soto_60 Start: 54045, Stop: 53587, Start Num: 34

Candidate Starts for Soto_60:

(Start: 34 @54045 has 329 MA's), (40, 53949), (41, 53940), (54, 53865), (61, 53793), (81, 53727), (82, 53721), (84, 53715), (89, 53688),

Gene: Spartan300_61 Start: 54706, Stop: 54248, Start Num: 34

Candidate Starts for Spartan300_61:

(Start: 34 @54706 has 329 MA's), (40, 54610), (41, 54601), (54, 54526), (61, 54454), (81, 54388), (82, 54382), (84, 54376), (89, 54349),

Gene: Squid_61 Start: 54490, Stop: 54032, Start Num: 34

Candidate Starts for Squid_61:

(Start: 34 @54490 has 329 MA's), (40, 54394), (41, 54385), (54, 54310), (61, 54238), (81, 54172), (82, 54166), (84, 54160), (89, 54133),

Gene: Squiggle_62 Start: 54498, Stop: 54040, Start Num: 34

Candidate Starts for Squiggle_62:

(Start: 34 @54498 has 329 MA's), (40, 54402), (41, 54393), (54, 54318), (61, 54246), (81, 54180), (82, 54174), (84, 54168), (89, 54141),

Gene: StinkyVeggy_59 Start: 55230, Stop: 54595, Start Num: 29

Candidate Starts for StinkyVeggy_59:

(Start: 29 @55230 has 10 MA's), (37, 55188), (53, 55041), (55, 55008), (56, 55002), (57, 54987), (60, 54969), (64, 54951), (74, 54912), (75, 54903), (78, 54894), (87, 54849), (96, 54819), (97, 54813),

Gene: Struggle_62 Start: 54581, Stop: 54117, Start Num: 34

Candidate Starts for Struggle_62:

(Start: 34 @54581 has 329 MA's), (40, 54485), (41, 54476), (54, 54401), (61, 54329), (81, 54263), (82, 54257), (84, 54251), (89, 54224),

Gene: Suffolk_60 Start: 53993, Stop: 53535, Start Num: 34

Candidate Starts for Suffolk_60:

(Start: 34 @53993 has 329 MA's), (40, 53897), (41, 53888), (54, 53813), (61, 53741), (81, 53675), (82, 53669), (84, 53663), (89, 53636),

Gene: Suigeneris_60 Start: 55306, Stop: 54665, Start Num: 29

Candidate Starts for Suigeneris_60:

(18, 55432), (Start: 29 @55306 has 10 MA's), (37, 55264), (53, 55117), (55, 55084), (57, 55063), (60, 55045), (64, 55027), (102, 54880), (106, 54868), (107, 54859), (122, 54796),

Gene: Surely_61 Start: 54780, Stop: 54322, Start Num: 34

Candidate Starts for Surely_61:

(Start: 34 @54780 has 329 MA's), (40, 54684), (41, 54675), (54, 54600), (61, 54528), (81, 54462), (82, 54456), (84, 54450), (89, 54423),

Gene: Swiphy_65 Start: 55024, Stop: 54566, Start Num: 34

Candidate Starts for Swiphy_65:

(Start: 34 @55024 has 329 MA's), (40, 54928), (41, 54919), (54, 54844), (61, 54772), (81, 54706), (82, 54700), (84, 54694), (89, 54667),

Gene: Swish_63 Start: 54754, Stop: 54296, Start Num: 34

Candidate Starts for Swish_63:

(Start: 34 @54754 has 329 MA's), (40, 54658), (41, 54649), (54, 54574), (61, 54502), (81, 54436), (82, 54430), (84, 54424), (89, 54397),

Gene: SynergyX_62 Start: 55006, Stop: 54530, Start Num: 34

Candidate Starts for SynergyX_62:

(19, 55141), (22, 55120), (Start: 33 @55009 has 10 MA's), (Start: 34 @55006 has 329 MA's), (40, 54910), (54, 54844), (55, 54814), (66, 54742), (67, 54739), (68, 54730), (74, 54715), (86, 54658),

Gene: TA17A_59 Start: 53340, Stop: 52858, Start Num: 34

Candidate Starts for TA17A_59:

(2, 53991), (4, 53865), (5, 53850), (Start: 34 @53340 has 329 MA's), (37, 53307), (40, 53247), (50, 53205), (54, 53202), (55, 53172), (60, 53133), (61, 53130), (63, 53127), (88, 53022), (90, 53016), (93, 52998), (102, 52965), (108, 52947), (116, 52902),

Gene: TallGrassMM_61 Start: 54394, Stop: 53936, Start Num: 34

Candidate Starts for TallGrassMM_61:

(Start: 34 @54394 has 329 MA's), (40, 54298), (41, 54289), (54, 54214), (61, 54142), (81, 54076), (82, 54070), (84, 54064), (89, 54037),

Gene: Telesworld_59 Start: 54599, Stop: 54141, Start Num: 34

Candidate Starts for Telesworld_59:

(Start: 34 @54599 has 329 MA's), (40, 54503), (41, 54494), (54, 54419), (61, 54347), (81, 54281), (82, 54275), (84, 54269), (89, 54242),

Gene: Thora_61 Start: 54776, Stop: 54318, Start Num: 34

Candidate Starts for Thora_61:

(Start: 34 @54776 has 329 MA's), (40, 54680), (41, 54671), (54, 54596), (61, 54524), (81, 54458), (82, 54452), (84, 54446), (89, 54419),

Gene: ThreeOh3D2_63 Start: 54997, Stop: 54539, Start Num: 34

Candidate Starts for ThreeOh3D2_63:

(Start: 34 @54997 has 329 MA's), (40, 54901), (41, 54892), (54, 54817), (61, 54745), (81, 54679), (82, 54673), (84, 54667), (89, 54640),

Gene: Thunderbird_61 Start: 54736, Stop: 54272, Start Num: 34

Candidate Starts for Thunderbird_61:

(Start: 34 @54736 has 329 MA's), (40, 54640), (41, 54631), (54, 54556), (61, 54484), (81, 54418), (82, 54412), (84, 54406), (89, 54379),

Gene: Timmi_60 Start: 54479, Stop: 54021, Start Num: 34

Candidate Starts for Timmi_60:

(Start: 34 @54479 has 329 MA's), (40, 54383), (41, 54374), (54, 54299), (61, 54227), (81, 54161), (82, 54155), (84, 54149), (89, 54122),

Gene: Tinciduntolum_60 Start: 53502, Stop: 53014, Start Num: 34

Candidate Starts for Tinciduntolum_60:

(Start: 34 @53502 has 329 MA's), (37, 53469), (40, 53409), (50, 53367), (54, 53364), (55, 53334), (60, 53295), (61, 53292), (63, 53289), (82, 53214), (88, 53175), (90, 53169), (93, 53151), (102, 53118), (108, 53100), (116, 53055),

Gene: TomBombadil_61 Start: 54764, Stop: 54306, Start Num: 34

Candidate Starts for TomBombadil_61:

(Start: 34 @54764 has 329 MA's), (40, 54668), (41, 54659), (54, 54584), (61, 54512), (81, 54446), (82, 54440), (84, 54434), (89, 54407),

Gene: Tomlarah_62 Start: 55333, Stop: 54875, Start Num: 34

Candidate Starts for Tomlarah_62:

(Start: 34 @55333 has 329 MA's), (40, 55237), (41, 55228), (54, 55153), (61, 55081), (81, 55015), (82, 55009), (84, 55003), (89, 54976),

Gene: Toni_61 Start: 54926, Stop: 54468, Start Num: 34

Candidate Starts for Toni_61:

(Start: 34 @54926 has 329 MA's), (40, 54830), (41, 54821), (54, 54746), (61, 54674), (81, 54608), (82, 54602), (84, 54596), (89, 54569),

Gene: Tooj_60 Start: 54149, Stop: 53691, Start Num: 34

Candidate Starts for Tooj_60:

(Start: 34 @54149 has 329 MA's), (40, 54053), (41, 54044), (54, 53969), (61, 53897), (81, 53831), (82, 53825), (84, 53819), (89, 53792),

Gene: Tres_59 Start: 53356, Stop: 52868, Start Num: 34

Candidate Starts for Tres_59:

(Start: 34 @53356 has 329 MA's), (37, 53323), (40, 53263), (50, 53221), (54, 53218), (55, 53188), (60, 53149), (61, 53146), (63, 53143), (82, 53068), (88, 53029), (90, 53023), (93, 53005), (102, 52972), (108, 52954), (116, 52909),

Gene: True_60 Start: 54489, Stop: 54031, Start Num: 34

Candidate Starts for True_60:

(Start: 34 @54489 has 329 MA's), (40, 54393), (41, 54384), (54, 54309), (61, 54237), (81, 54171), (82, 54165), (84, 54159), (89, 54132),

Gene: Trypo_64 Start: 55161, Stop: 54703, Start Num: 34
Candidate Starts for Trypo_64:
(Start: 34 @55161 has 329 MA's), (40, 55065), (41, 55056), (54, 54981), (61, 54909), (81, 54843), (82, 54837), (84, 54831), (89, 54804),

Gene: Tydolla_59 Start: 55039, Stop: 54590, Start Num: 34
Candidate Starts for Tydolla_59:
(19, 55174), (22, 55153), (Start: 33 @55042 has 10 MA's), (Start: 34 @55039 has 329 MA's), (40, 54943), (54, 54877), (55, 54847), (66, 54775), (67, 54772), (68, 54763), (74, 54748), (86, 54715),

Gene: TyrionL_62 Start: 54586, Stop: 54128, Start Num: 34
Candidate Starts for TyrionL_62:
(Start: 34 @54586 has 329 MA's), (40, 54490), (41, 54481), (54, 54406), (61, 54334), (81, 54268), (82, 54262), (84, 54256), (89, 54229),

Gene: UAch1_61 Start: 54720, Stop: 54262, Start Num: 34
Candidate Starts for UAch1_61:
(Start: 34 @54720 has 329 MA's), (40, 54624), (41, 54615), (54, 54540), (61, 54468), (81, 54402), (82, 54396), (84, 54390), (89, 54363),

Gene: UncleHowie_60 Start: 54191, Stop: 53733, Start Num: 34
Candidate Starts for UncleHowie_60:
(Start: 34 @54191 has 329 MA's), (40, 54095), (41, 54086), (54, 54011), (61, 53939), (81, 53873), (82, 53867), (84, 53861), (89, 53834),

Gene: Usavi_61 Start: 54859, Stop: 54401, Start Num: 34
Candidate Starts for Usavi_61:
(Start: 34 @54859 has 329 MA's), (40, 54763), (41, 54754), (54, 54679), (61, 54607), (81, 54541), (82, 54535), (84, 54529), (89, 54502),

Gene: Vaishali24_60 Start: 54394, Stop: 53936, Start Num: 34
Candidate Starts for Vaishali24_60:
(Start: 34 @54394 has 329 MA's), (40, 54298), (41, 54289), (54, 54214), (61, 54142), (81, 54076), (82, 54070), (84, 54064), (89, 54037), (109, 53968),

Gene: Valjean_61 Start: 54716, Stop: 54258, Start Num: 34
Candidate Starts for Valjean_61:
(Start: 34 @54716 has 329 MA's), (40, 54620), (41, 54611), (54, 54536), (61, 54464), (81, 54398), (82, 54392), (84, 54386), (89, 54359),

Gene: Vaticameos_58 Start: 53024, Stop: 52566, Start Num: 34
Candidate Starts for Vaticameos_58:
(Start: 34 @53024 has 329 MA's), (40, 52928), (41, 52919), (54, 52844), (61, 52772), (81, 52706), (82, 52700), (84, 52694), (89, 52667),

Gene: Veritas_63 Start: 54854, Stop: 54396, Start Num: 34
Candidate Starts for Veritas_63:
(Start: 34 @54854 has 329 MA's), (40, 54758), (41, 54749), (54, 54674), (61, 54602), (81, 54536), (82, 54530), (84, 54524), (89, 54497),

Gene: Vic9_60 Start: 54201, Stop: 53710, Start Num: 34
Candidate Starts for Vic9_60:

(Start: 34 @54201 has 329 MA's), (37, 54168), (40, 54108), (50, 54066), (54, 54063), (55, 54033), (60, 53994), (61, 53991), (63, 53988), (82, 53913), (88, 53874), (90, 53868), (93, 53850), (102, 53817), (108, 53799), (116, 53754),

Gene: Virapocalypse_62 Start: 54815, Stop: 54357, Start Num: 34

Candidate Starts for Virapocalypse_62:

(Start: 34 @54815 has 329 MA's), (40, 54719), (41, 54710), (54, 54635), (61, 54563), (81, 54497), (82, 54491), (84, 54485), (89, 54458),

Gene: Virgeve_61 Start: 54452, Stop: 53994, Start Num: 34

Candidate Starts for Virgeve_61:

(Start: 34 @54452 has 329 MA's), (40, 54356), (41, 54347), (54, 54272), (61, 54200), (81, 54134), (82, 54128), (84, 54122), (89, 54095),

Gene: Vista_61 Start: 54492, Stop: 54034, Start Num: 34

Candidate Starts for Vista_61:

(Start: 34 @54492 has 329 MA's), (40, 54396), (41, 54387), (54, 54312), (61, 54240), (81, 54174), (82, 54168), (84, 54162), (89, 54135),

Gene: Vivaldi_63 Start: 54950, Stop: 54492, Start Num: 34

Candidate Starts for Vivaldi_63:

(Start: 34 @54950 has 329 MA's), (40, 54854), (41, 54845), (54, 54770), (61, 54698), (81, 54632), (82, 54626), (84, 54620), (89, 54593),

Gene: Vortex_61 Start: 54474, Stop: 54016, Start Num: 34

Candidate Starts for Vortex_61:

(Start: 34 @54474 has 329 MA's), (40, 54378), (41, 54369), (54, 54294), (61, 54222), (81, 54156), (82, 54150), (84, 54144), (89, 54117),

Gene: Wallhey_62 Start: 54596, Stop: 54132, Start Num: 34

Candidate Starts for Wallhey_62:

(Start: 34 @54596 has 329 MA's), (40, 54500), (41, 54491), (54, 54416), (61, 54344), (81, 54278), (82, 54272), (84, 54266), (89, 54239),

Gene: Waterdiva_61 Start: 54853, Stop: 54395, Start Num: 34

Candidate Starts for Waterdiva_61:

(Start: 34 @54853 has 329 MA's), (40, 54757), (41, 54748), (54, 54673), (61, 54601), (81, 54535), (82, 54529), (84, 54523), (89, 54496),

Gene: Weher20_61 Start: 55296, Stop: 54838, Start Num: 34

Candidate Starts for Weher20_61:

(Start: 34 @55296 has 329 MA's), (40, 55200), (41, 55191), (54, 55116), (61, 55044), (81, 54978), (82, 54972), (84, 54966), (89, 54939),

Gene: West99_59 Start: 53499, Stop: 53011, Start Num: 34

Candidate Starts for West99_59:

(23, 53601), (Start: 34 @53499 has 329 MA's), (37, 53466), (40, 53406), (50, 53364), (54, 53361), (55, 53331), (60, 53292), (61, 53289), (63, 53286), (82, 53211), (88, 53172), (90, 53166), (93, 53148), (102, 53115), (108, 53097), (116, 53052),

Gene: Windsor_61 Start: 55039, Stop: 54581, Start Num: 34

Candidate Starts for Windsor_61:

(Start: 34 @55039 has 329 MA's), (40, 54943), (41, 54934), (54, 54859), (61, 54787), (81, 54721), (82, 54715), (84, 54709), (89, 54682),

Gene: Xavier_60 Start: 54481, Stop: 54023, Start Num: 34

Candidate Starts for Xavier_60:

(Start: 34 @54481 has 329 MA's), (40, 54385), (41, 54376), (54, 54301), (61, 54229), (81, 54163), (82, 54157), (84, 54151), (89, 54124),

Gene: Yahalom_60 Start: 54813, Stop: 54364, Start Num: 34

Candidate Starts for Yahalom_60:

(8, 55206), (10, 55080), (12, 55062), (19, 54948), (22, 54927), (Start: 33 @54816 has 10 MA's), (Start: 34 @54813 has 329 MA's), (40, 54717), (54, 54651), (55, 54621), (61, 54579), (66, 54549), (67, 54546), (68, 54537), (74, 54522), (86, 54489),

Gene: Yinz_62 Start: 54877, Stop: 54386, Start Num: 33

Candidate Starts for Yinz_62:

(Start: 33 @54877 has 10 MA's), (Start: 34 @54874 has 329 MA's), (40, 54778), (54, 54712), (55, 54682), (66, 54610), (67, 54607), (68, 54598), (74, 54583), (86, 54526),

Gene: Yoshand_63 Start: 54767, Stop: 54309, Start Num: 34

Candidate Starts for Yoshand_63:

(Start: 34 @54767 has 329 MA's), (40, 54671), (41, 54662), (54, 54587), (61, 54515), (81, 54449), (82, 54443), (84, 54437), (89, 54410),

Gene: YouGoGlencoco_62 Start: 54719, Stop: 54261, Start Num: 34

Candidate Starts for YouGoGlencoco_62:

(Start: 34 @54719 has 329 MA's), (40, 54623), (41, 54614), (54, 54539), (61, 54467), (81, 54401), (82, 54395), (84, 54389), (89, 54362),

Gene: Zaider_62 Start: 54960, Stop: 54502, Start Num: 34

Candidate Starts for Zaider_62:

(Start: 34 @54960 has 329 MA's), (40, 54864), (41, 54855), (54, 54780), (61, 54708), (81, 54642), (82, 54636), (84, 54630), (89, 54603),

Gene: Zelda_62 Start: 55121, Stop: 54663, Start Num: 34

Candidate Starts for Zelda_62:

(Start: 34 @55121 has 329 MA's), (40, 55025), (41, 55016), (54, 54941), (61, 54869), (81, 54803), (82, 54797), (84, 54791), (89, 54764),

Gene: Zenteno07_64 Start: 54876, Stop: 54409, Start Num: 34

Candidate Starts for Zenteno07_64:

(3, 55491), (6, 55386), (17, 55005), (Start: 34 @54876 has 329 MA's), (55, 54678), (58, 54645), (61, 54636), (91, 54504),

Gene: Zonia_63 Start: 55047, Stop: 54583, Start Num: 34

Candidate Starts for Zonia_63:

(Start: 34 @55047 has 329 MA's), (40, 54951), (41, 54942), (54, 54867), (61, 54795), (81, 54729), (82, 54723), (84, 54717), (89, 54690),