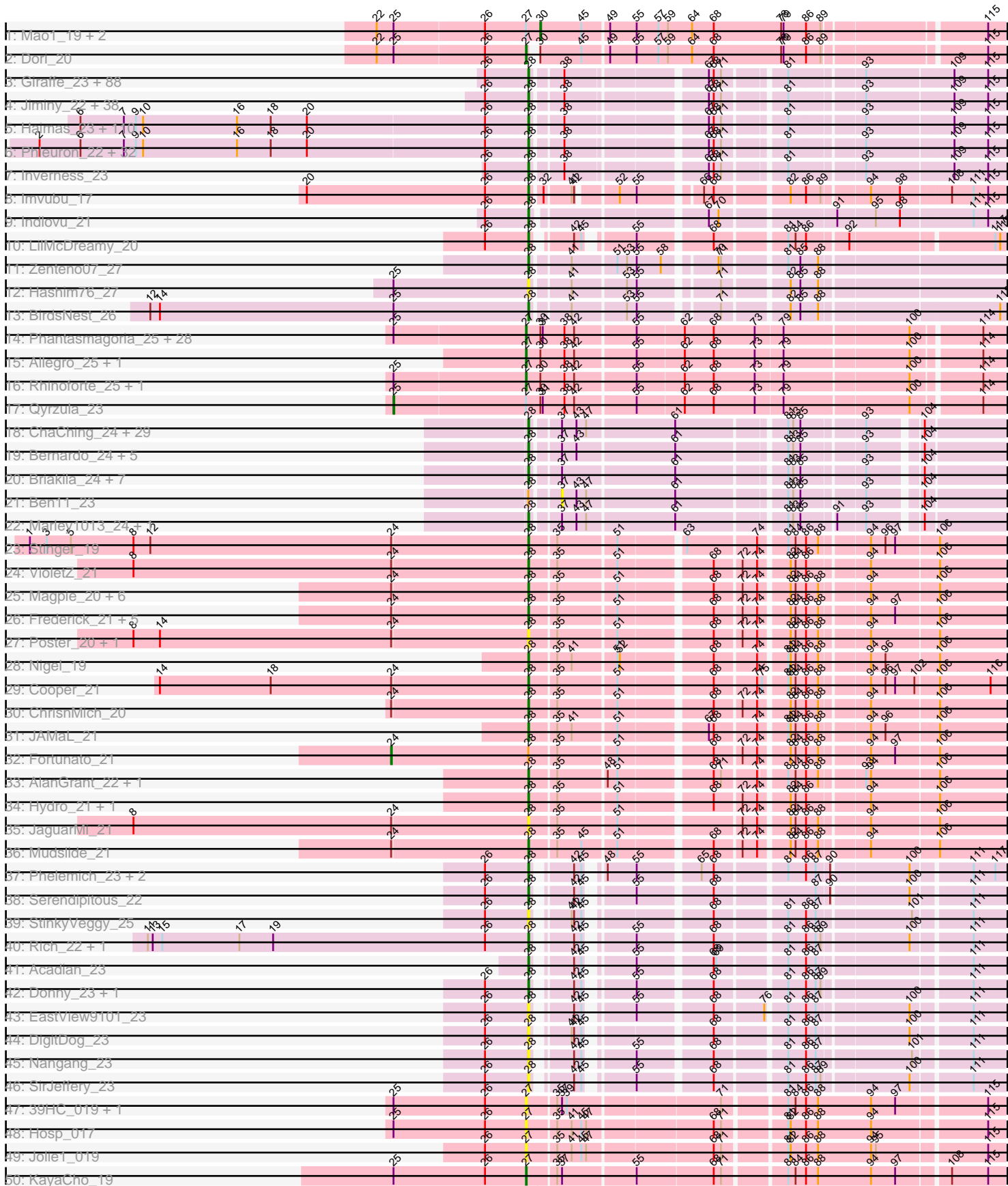
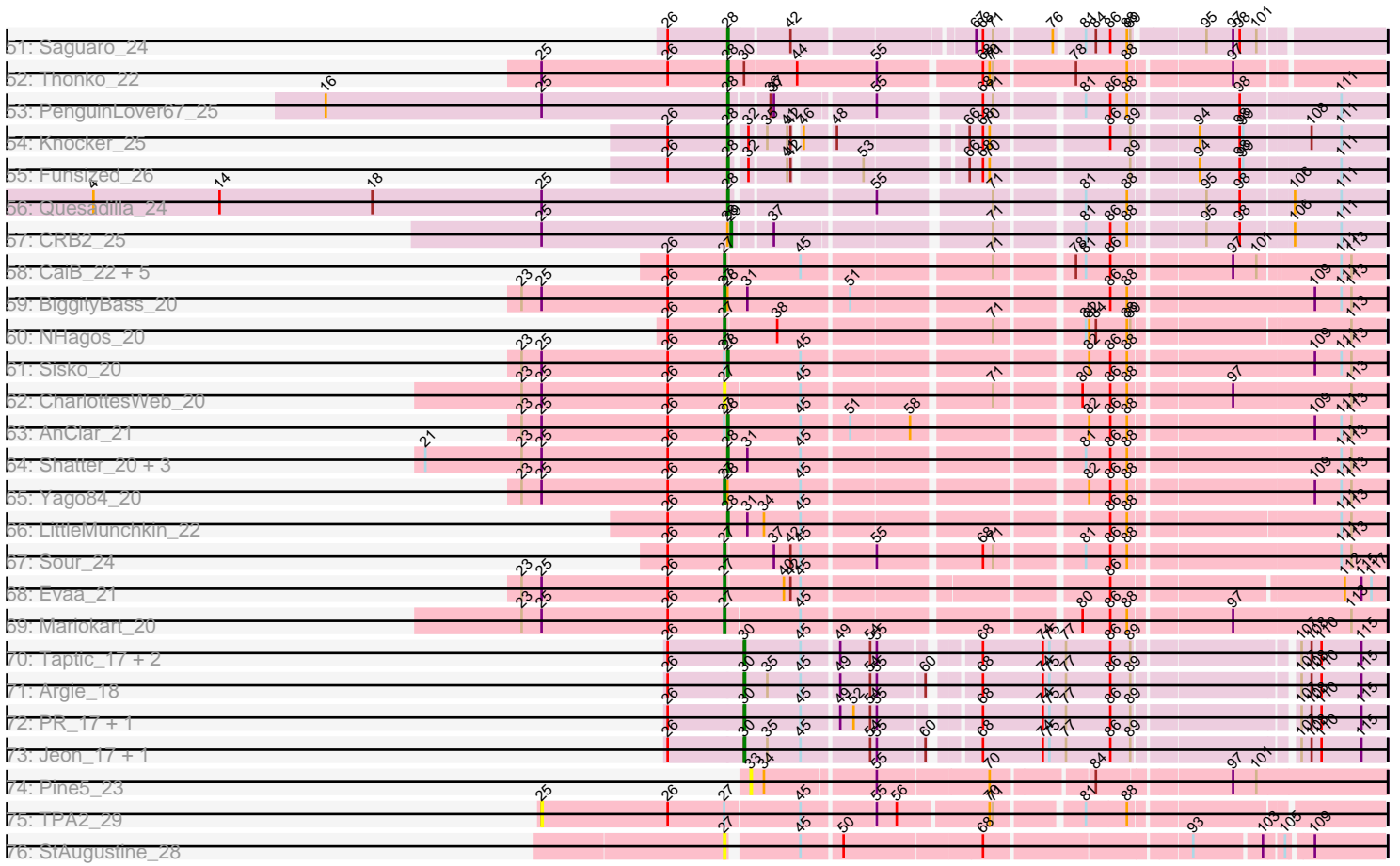


Pham 163255



Pham 163255



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 163255 Report

This analysis was run 04/28/24 on database version 559.

Pham number 163255 has 449 members, 57 are drafts.

Phages represented in each track:

- Track 1 : Mao1_19, Mask_20, Sejanus_20
- Track 2 : Dori_20
- Track 3 : Giraffe_23, Serpentine_0023, Banjo_22, Nacho_0023, Hetaeria_23, Maru_22, Valjean_23, Olive_23, Gyarad_0023, Zelda_23, EmpTee_23, Mulan_22, Altwerkus_22, Basato_24, Frankicide_23, Cher_22, KLucky39_23, Pipsqueak_23, Gareth_22, Antonia_22, Megamind20_23, Manad_22, Simielle_22, Mana_22, Daffy_23, Freya_22, Andre_23, Scoot17C_23, ThreeOh3D2_23, Mecca_22, LostAndPhound_22, HighStump_22, Bishoperium_22, Serendipity_23, Orion_23, CheetO_23, Emiris_23, Spartan300_23, Cobra_23, Dingo_23, Bluephacebaby_22, KlimbOn_23, PinheadLarry_23, Lopsy_22, Grand2040_22, Chorkpop_23, Solosis_22, Roliet_23, Harvey_23, Telesworld_22, Childish_22, QueenBeane_23, MiniBoss_23, Held_23, Nyala_22, Colbert_23, Phareon_23, AbsoluteMadLad_22, Kahve_22, UncleHowie_23, Fang_23, LeiMonet_23, Waterdiva_23, DonSanchon_22, HSavage_23, Morgushi_23, Dione_22, UAch1_23, Samaymay_23, True_22, AltPhacts_23, Potter_22, Piglet_0022, CamL_23, HenryJackson_22, FugateOSU_22, Vaishali24_22, Vaticameos_23, Robyn_22, FriarPreacher_23, Tooj_23, RedMaple_22, Suffolk_23, Aelin_22, Tomlarah_23, Vortex_23, PG1_23, Chah_24, Vivaldi_23
- Track 4 : Jiminy_22, Mikota_23, Chunky_23, DuchessDung_21, OliverWalter_23, KingVeVeVe_23, Usavi_23, MrPhizzler_22, Prickles_23, Oline_22, Maskar_22, DirtJuice_23, Thunderbird_23, Boehler_23, Hocus_22, Doddsville_23, SDcharge11_23, Duggie_22, Ashraf_22, ImtiyazSitla_22, Gwilliam_23, Apizium_22, ProfessorX_23, Crownjwl_23, DaddyDaniels_23, Fozzie_22, Horchata_23, Newman_23, Eremos_23, JakeO_22, Carthage_21, Sheila_23, Daka_23, Soto_23, Roscoe_24, Struggle_22, JDog_23, BlueHusk_23, Jiraiya_23
- Track 5 : Haimas_23, Iridoclysis_23, Pops_23, Adriana_23, Nicole21_23, Kimbrough_23, DelRivs_22, Lumine_22, Oosterbaan_23, Selr12_23, Burr_22, Hamish_23, Inchworm_23, Matalotodo_22, Murdoc_23, Eugenia_23, Keitherie_23, Pherdinand_23, LuckyMarjie_22, Orwigg_23, Thora_23, Derpp_22, TyrionL_22, Buckeye_23, OSmaximus_23, Skippy_23, Toni_22, Fringe_23, Kwadwo_22, Squid_23, Cornobble_22, ABU_23, Numberten_23, BlackStallion_23, Windsor_22, Mcshane_22, FluffyNinja_23, Schadenfreude_22, MitKao_23, Scrick_23, Haleema_22, Orfeu_22, Swish_23, Mutante_22, Lulumae_22, Roy17_23, Sigman_23, Lulwa_23, Megatron_23, LeeLot_23, Xavier_22, PhrodoBaggins_22, IsaacEli_23, Beaglebox_22, Jillium_22, Sophia_22, Surely_23, Mosaic_22, Slatt_23, Virapocalypse_23, Kikipoo_23, Charles1_23, SassyCat97_22, Hertubise_23, Omniscient_23, Soile_23, Ricotta_23, Badfish_23, Lego3393_23, JangoPhett_23,

DoesntMatter_23, Olak_23, YouGoGlencoco_23, Quisquiliae_23, Cosmolli16_22, ShiVal_23, LemonSlice_23, Legolas_22, Cannibal_23, Gophee_23, TallGrassMM_23, Dice_24, LasagnaCat_23, JacAttac_23, MRabcd_22, Riggan_23, Puhltonio_23, Lasso_23, Mesh1_23, Katniss_23, Timmi_22, Squiggle_23, TomBombadil_23, Phipps_23, Kloppinator_23, Craff_23, PhatCats2014_23, Zaider_24, Morty_23, Phunky_23, Phamished_23, Plmatters_23, Podrick_23, Vista_23, CampRoach_22, Pacifista_24, Chaelin_22, Anderson_23, Labeouficaum_22, Placalicious_22, Yoshand_23

- Track 6 : Phleuron_22, Rimu_23, BatteryCK_22, Phergie_22, Magic8_23, Zonia_23, Trypo_23, Veritas_22, Coletti_22, Swiphy_24, Etaye_23, MichaelPhcott_22, Kailash_23, Schueller_23, Chute_22, Pinkman_22, MelsMeow_22, PhrankReynolds_22, Virgeve_22, Durga_23, PhenghisKhan_22, Kwksand96_22, GeneCoco_23, Dati_23, Longacauda_22, Wallhey_22, Brilliant_23, Hartsy_22, Weher20_23, Mag7_22, PhatLouie_23, Melc17_23, CharlieGBrown_22
- Track 7 : Inverness_23
- Track 8 : Imvubu_17
- Track 9 : Indlovu_21
- Track 10 : LilMcDreamy_20
- Track 11 : Zenteno07_27
- Track 12 : Hashim76_27
- Track 13 : BirdsNest_26
- Track 14 : Phantasmagoria_25, Sabella_25, LizLemon_25, Kheth_25, Faze9_25, Godines_25, Brownie5_25, West99_25, Coffee_25, TA17A_25, MasterPo_25, Calamitous_25, Opia_25, Tinciduntolum_26, Tres_25, Lars_25, Bananafish_25, Eaglehorse_25, Boyle_25, Arbiter_25, Holeinone_25, Hedgerow_25, Rosebush_25, Glass_25, Kaleb_25, Ares_25, Lephleur_25, ItsyBitsy1_25, FrenchFry_25
- Track 15 : Allegro_25, Laurie_25
- Track 16 : Rhinoforte_25, Blocker23_25
- Track 17 : Qyrzula_23
- Track 18 : ChaChing_24, Baloo_24, OrangeOswald_24, Phlyer_24, Phayeta_24, Jackstina_22, Yinz_24, MmasiCarm_24, Phaedrus_22, Audrey_24, Rita1961_24, Athena_25, Neos5_24, Corofin_24, Tydolla_24, SlippinJimmy_24, HarveySr_24, Devonte_24, Heathcliff_24, Philly_23, Daisy_24, Kronus_23, Halfpint_23, Chandler_24, Abinghost_24, Nozo_24, Obutu_24, Mortcellus_23, Compostia_25, Kamiyu_24
- Track 19 : Bernardo_24, GlenHope_25, Pipefish_24, Gadget_25, Gervas_24, RomaT_24
- Track 20 : Briakila_24, LestyG_24, Yahalom_24, RagingRooster_24, Akoma_24, Deenasa_24, SynergyX_24, Casbah_23
- Track 21 : Ben11_23
- Track 22 : Marley1013_24, Morty007_24
- Track 23 : Stinger_19
- Track 24 : VioletZ_21
- Track 25 : Magpie_20, Hangman_21, BrownCNA_22, Mithril_21, Waleliano_21, Zemanar_22, Heath_20
- Track 26 : Frederick_21, RawrgerThat_21, Prince_22, Apex_21, BobbyK_21, Austelle_22
- Track 27 : Poster_20, Nanao_20
- Track 28 : Nigel_19
- Track 29 : Cooper_21
- Track 30 : ChrisnMich_20
- Track 31 : JAMaL_21
- Track 32 : Fortunato_21

- Track 33 : AlanGrant_22, Vincenzo_22
- Track 34 : Hydro_21, Lolalove_21
- Track 35 : JaguarMi_21
- Track 36 : Mudslide_21
- Track 37 : Phelemich_23, Mysterious_24, Reprobate_23
- Track 38 : Serendipitous_22
- Track 39 : StinkyVeggy_25
- Track 40 : Rich_22, Bae_22
- Track 41 : Acadian_23
- Track 42 : Donny_23, Suigeneris_23
- Track 43 : EastView9101_23
- Track 44 : DigitDog_23
- Track 45 : Nangang_23
- Track 46 : SirJeffery_23
- Track 47 : 39HC_019, 40BC_019
- Track 48 : Hosp_017
- Track 49 : Jolie1_019
- Track 50 : KayaCho_19
- Track 51 : Saguaro_24
- Track 52 : Thonko_22
- Track 53 : PenguinLover67_25
- Track 54 : Knocker_25
- Track 55 : Funsized_26
- Track 56 : Quesadilla_24
- Track 57 : CRB2_25
- Track 58 : CaiB_22, CloverMinnie_22, Wooper_22, MakoManhole_22, MossRose_22, AnarQue_22
- Track 59 : BiggityBass_20
- Track 60 : NHagos_20
- Track 61 : Sisko_20
- Track 62 : CharlottesWeb_20
- Track 63 : AnClar_21
- Track 64 : Shatter_20, Axumite_20, Fresco_20, Ligma_20
- Track 65 : Yago84_20
- Track 66 : LittleMunchkin_22
- Track 67 : Sour_24
- Track 68 : Evaa_21
- Track 69 : Mariokart_20
- Track 70 : Taptic_17, Megabear_17, Cepens_17
- Track 71 : Argie_18
- Track 72 : PR_17, D12_17
- Track 73 : Jeon_17, GodPhather_18
- Track 74 : Pine5_23
- Track 75 : TPA2_29
- Track 76 : StAugustine_28

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

The start number called the most often in the published annotations is 28, it was called in 335 of the 392 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• ABU_23, Abinghost_24, AbsoluteMadLad_22, Acadian_23, Adriana_23, Aelin_22, Akoma_24, AlanGrant_22, AltPhacts_23, Altwerkus_22, AnClar_21, Anderson_23, Andre_23, Antonia_22, Apex_21, Apizium_22, Ashraf_22, Athena_25, Audrey_24, Austelle_22, Axumite_20, Badfish_23, Bae_22, Baloo_24, Banjo_22, Basato_24, BatteryCK_22, Beaglebox_22, Bernardo_24, BirdsNest_26, Bishoperium_22, BlackStallion_23, BlueHusk_23, Bluephacebaby_22, BobbyK_21, Boehler_23, Briakila_24, Brilliant_23, BrownCNA_22, Buckeye_23, Burr_22, CamL_23, CampRoach_22, Cannibal_23, Carthage_21, Casbah_23, ChaChing_24, Chaelin_22, Chah_24, Chandler_24, Charles1_23, CharlieGBrown_22, CheetO_23, Cher_22, Childish_22, Chorkpop_23, ChrisnMich_20, Chunky_23, Chute_22, Cobra_23, Colbert_23, Coletti_22, Compostia_25, Cooper_21, Cornobble_22, Corofin_24, Cosmolli16_22, Craff_23, Crownjwl_23, DaddyDaniels_23, Daffy_23, Daisy_24, Daka_23, Dati_23, Deenasa_24, DelRivs_22, Derpp_22, Devonte_24, Dice_24, DigitDog_23, Dingo_23, Dione_22, DirtJuice_23, Doddsville_23, DoesntMatter_23, DonSanchon_22, Donny_23, DuchessDung_21, Duggie_22, Durga_23, EastView9101_23, Emiris_23, EmpTee_23, Eremos_23, Etaye_23, Eugenia_23, Fang_23, FluffyNinja_23, Fozzie_22, Frankicide_23, Frederick_21, Fresco_20, Freya_22, FriarPreacher_23, Fringe_23, FugateOSU_22, Funsized_26, Gadjet_25, Gareth_22, GeneCoco_23, Gervas_24, Giraffe_23, GlenHope_25, Gophee_23, Grand2040_22, Gwilliam_23, Gyarad_0023, HSavage_23, Haimas_23, Haleema_22, Halfpint_23, Hamish_23, Hangman_21, Hartsy_22, HarveySr_24, Harvey_23, Hashim76_27, Heath_20, Heathcliff_24, Held_23, HenryJackson_22, Hertubise_23, Hetaeria_23, HighStump_22, Hocus_22, Horchata_23, Hydro_21, ImtiyazSitla_22, Imvubu_17, Inchworm_23, Indlovu_21, Inverness_23, Iridoclysis_23, IsaacEli_23, JAMaL_21, JDog_23, JacAttac_23, Jackstina_22, JaguarMi_21, JakeO_22, JangoPhett_23, Jillium_22, Jiminy_22, Jiraiya_23, KLucky39_23, Kahve_22, Kailash_23, Kamiyu_24, Katniss_23, Keitherie_23, Kikipoo_23, Kimbrough_23, KingVeVeVe_23, KlimbOn_23, Kloppinator_23, Knocker_25, Kronus_23, Kwadwo_22, Kwksand96_22, Labeouficaum_22, LasagnaCat_23, Lasso_23, LeeLot_23, Lego3393_23, Legolas_22, LeiMonet_23, LemonSlice_23, LestyG_24, Ligma_20, LiIMcDreamy_20, LittleMunchkin_22, Lolalove_21, Longacauda_22, Lopsy_22, LostAndPhound_22, LuckyMarjie_22, Lulumae_22, Lulwa_23, Lumine_22, MRabcd_22, Mag7_22, Magic8_23, Magpie_20, Mana_22, Manad_22, Marley1013_24, Maru_22, Maskar_22, Matalotodo_22, Mcshane_22, Mecca_22, Megamind20_23, Megatron_23, Melc17_23, MelsMeow_22, Mesh1_23, MichaelPhcott_22, Mikota_23, MiniBoss_23, MitKao_23, Mithril_21, MmasiCarm_24, Morgushi_23, Mortcellus_23, Morty007_24, Morty_23, Mosaic_22, MrPhizzler_22, Mudslide_21, Mulan_22, Murdoc_23, Mutante_22, Mysterious_24, Nacho_0023, Nanao_20, Nangang_23, Neos5_24, Newman_23, Nicole21_23, Nigel_19, Nozo_24, Numberten_23, Nyala_22, OSmaximus_23, Obutu_24, Olak_23, Oline_22, Olive_23, OliverWalter_23, Omniscient_23, Oosterbaan_23, OrangeOswald_24, Orfeu_22, Orion_23, Orwigg_23, PG1_23, Pacifista_24, PenguinLover67_25, Phaedrus_22, Phamished_23, Phareon_23, PhatCats2014_23, PhatLouie_23, Phayeta_24, Phelemich_23, PhenghisKhan_22, Pherdinand_23, Phergie_22, Philly_23, Phipps_23, Phleuron_22, Phlyer_24, PhrankReynolds_22, PhrodoBaggins_22, Phunky_23, Piglet_0022, PinheadLarry_23, Pinkman_22, Pipefish_24, Pipsqueak_23, Placalicious_22, Plmatters_23, Podrick_23, Pops_23, Poster_20, Potter_22, Prickles_23, Prince_22, ProfessorX_23, Puhltonio_23, QueenBeane_23, Quesadilla_24, Quisquilliae_23, RagingRooster_24, RawrgerThat_21, RedMaple_22, Reprobate_23, Rich_22, Ricotta_23, Riggan_23, Rimu_23, Rita1961_24, Robyn_22, Roliet_23, RomaT_24, Roscoe_24, Roy17_23, SDcharge11_23, Saguaro_24,

Samaymay_23, SassyCat97_22, Schadenfreude_22, Schueller_23, Scoot17C_23, Scrick_23, Selr12_23, Serendipitous_22, Serendipity_23, Serpentine_0023, Shatter_20, Sheila_23, ShiVal_23, Sigman_23, Simielle_22, SirJeffery_23, Sisko_20, Skippy_23, Slatt_23, SlippinJimmy_24, Soile_23, Solosis_22, Sophia_22, Soto_23, Spartan300_23, Squid_23, Squiggle_23, Stinger_19, StinkyVeggy_25, Struggle_22, Suffolk_23, Suigeneris_23, Surely_23, Swiphy_24, Swish_23, SynergyX_24, TallGrassMM_23, Telesworld_22, Thonko_22, Thora_23, ThreeOh3D2_23, Thunderbird_23, Timmi_22, TomBombadil_23, Tomlarah_23, Toni_22, Tooj_23, True_22, Trypo_23, Tydolla_24, TyrionL_22, UAch1_23, UncleHowie_23, Usavi_23, Vaishali24_22, Valjean_23, Vaticameos_23, Veritas_22, Vincenzo_22, VioletZ_21, Virapocalypse_23, Virgeve_22, Vista_23, Vivaldi_23, Vortex_23, Waleliano_21, Wallhey_22, Waterdiva_23, Weher20_23, Windsor_22, Xavier_22, Yahalom_24, Yinz_24, Yoshand_23, YouGoGlencoco_23, Zaider_24, Zelda_23, Zemanar_22, Zenteno07_27, Zonia_23,

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

- Ben11_23, BiggityBass_20, CRB2_25, Fortunato_21, Yago84_20,

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

- 39HC_019, 40BC_019, Allegro_25, AnarQue_22, Arbiter_25, Ares_25, Argie_18, Bananafish_25, Blocker23_25, Boyle_25, Brownie5_25, CaiB_22, Calamitous_25, Cepens_17, CharlottesWeb_20, CloverMinnie_22, Coffee_25, D12_17, Dori_20, Eaglehorse_25, Evaa_21, Faze9_25, FrenchFry_25, Glass_25, GodPhather_18, Godines_25, Hedgerow_25, Holeinone_25, Hosp_017, ItsyBitsy1_25, Jeon_17, Jolie1_019, Kaleb_25, KayaCho_19, Kheth_25, Lars_25, Laurie_25, Lephleur_25, LizLemon_25, MakoManhole_22, Mao1_19, Mariokart_20, Mask_20, MasterPo_25, Megabear_17, MossRose_22, NHagos_20, Opia_25, PR_17, Phantasmagoria_25, Pine5_23, Qyrzula_23, Rhinoforte_25, Rosebush_25, Sabella_25, Sejanus_20, Sour_24, StAugustine_28, TA17A_25, TPA2_29, Taptic_17, Tinciduntolum_26, Tres_25, West99_25, Wooper_22,

Summary by start number:

Start 24:

- Found in 22 of 449 (4.9%) of genes in pham
- Manual Annotations of this start: 1 of 392
- Called 4.5% of time when present
- Phage (with cluster) where this start called: Fortunato_21 (B4),

Start 25:

- Found in 58 of 449 (12.9%) of genes in pham
- Manual Annotations of this start: 1 of 392
- Called 3.4% of time when present
- Phage (with cluster) where this start called: Qyrzula_23 (B2), TPA2_29 (singleton),

Start 27:

- Found in 60 of 449 (13.4%) of genes in pham
- Manual Annotations of this start: 44 of 392
- Called 88.3% of time when present
- Phage (with cluster) where this start called: 39HC_019 (B6), 40BC_019 (B6), Allegro_25 (B2), AnarQue_22 (DR), Arbiter_25 (B2), Ares_25 (B2), Bananafish_25 (B2), BiggityBass_20 (DR), Blocker23_25 (B2), Boyle_25 (B2), Brownie5_25 (B2), CaiB_22 (DR), Calamitous_25 (B2), CharlottesWeb_20 (DR), CloverMinnie_22 (DR),

Coffee_25 (B2), Dori_20 (AD), Eaglehorse_25 (B2), Evaa_21 (DR), Faze9_25 (B2), FrenchFry_25 (B2), Glass_25 (B2), Godines_25 (B2), Hedgerow_25 (B2), Holeinone_25 (B2), Hosp_017 (B6), ItsyBitsy1_25 (B2), Jolie1_019 (B6), Kaleb_25 (B2), KayaCho_19 (B6), Kheth_25 (B2), Lars_25 (B2), Laurie_25 (B2), Lephleur_25 (B2), LizLemon_25 (B2), MakoManhole_22 (DR), Mariokart_20 (DR), MasterPo_25 (B2), MossRose_22 (DR), NHagos_20 (DR), Opia_25 (B2), Phantasmagoria_25 (B2), Rhinoforte_25 (B2), Rosebush_25 (B2), Sabella_25 (B2), Sour_24 (DR), StAugustine_28 (singleton), TA17A_25 (B2), Tinciduntolum_26 (B2), Tres_25 (B2), West99_25 (B2), Wooper_22 (DR), Yago84_20 (DR),

Start 28:

- Found in 384 of 449 (85.5%) of genes in pham
- Manual Annotations of this start: 335 of 392
- Called 98.7% of time when present
- Phage (with cluster) where this start called: ABU_23 (B1), Abinghost_24 (B3), AbsoluteMadLad_22 (B1), Acadian_23 (B5), Adriana_23 (B1), Aelin_22 (B1), Akoma_24 (B3), AlanGrant_22 (B4), AltPhacts_23 (B1), Altwerkus_22 (B1), AnClar_21 (DR), Anderson_23 (B1), Andre_23 (B1), Antonia_22 (B1), Apex_21 (B4), Apizium_22 (B1), Ashraf_22 (B1), Athena_25 (B3), Audrey_24 (B3), Austelle_22 (B4), Axumite_20 (DR), Badfish_23 (B1), Bae_22 (B5), Baloo_24 (B3), Banjo_22 (B1), Basato_24 (B1), BatteryCK_22 (B1), Beaglebox_22 (B1), Bernardo_24 (B3), BirdsNest_26 (B13), Bishoperium_22 (B1), BlackStallion_23 (B1), BlueHusk_23 (B1), Bluephacebaby_22 (B1), BobbyK_21 (B4), Boehler_23 (B1), Briakila_24 (B3), Brilliant_23 (B1), BrownCNA_22 (B4), Buckeye_23 (B1), Burr_22 (B1), CamL_23 (B1), CampRoach_22 (B1), Cannibal_23 (B1), Carthage_21 (B1), Casbah_23 (B3), ChaChing_24 (B3), Chaelin_22 (B1), Chah_24 (B1), Chandler_24 (B3), Charles1_23 (B1), CharlieGBrown_22 (B1), CheetO_23 (B1), Cher_22 (B1), Childish_22 (B1), Chorkpop_23 (B1), ChrisnMich_20 (B4), Chunky_23 (B1), Chute_22 (B1), Cobra_23 (B1), Colbert_23 (B1), Coletti_22 (B1), Compostia_25 (B3), Cooper_21 (B4), Cornobble_22 (B1), Corofin_24 (B3), Cosmolli16_22 (B1), Craff_23 (B1), Crownjwl_23 (B1), DaddyDaniels_23 (B1), Daffy_23 (B1), Daisy_24 (B3), Daka_23 (B1), Dati_23 (B1), Deenasa_24 (B3), DelRivs_22 (B1), Derpp_22 (B1), Devonte_24 (B3), Dice_24 (B1), DigitDog_23 (B5), Dingo_23 (B1), Dione_22 (B1), DirtJuice_23 (B1), Doddsville_23 (B1), DoesntMatter_23 (B1), DonSanchon_22 (B1), Donny_23 (B5), DuchessDung_21 (B1), Duggie_22 (B1), Durga_23 (B1), EastView9101_23 (B5), Emiris_23 (B1), EmpTee_23 (B1), Eremos_23 (B1), Etaye_23 (B1), Eugenia_23 (B1), Fang_23 (B1), FluffyNinja_23 (B1), Fozzie_22 (B1), Frankicide_23 (B1), Frederick_21 (B4), Fresco_20 (DR), Freya_22 (B1), FriarPreacher_23 (B1), Fringe_23 (B1), FugateOSU_22 (B1), Funsized_26 (B9), Gadget_25 (B3), Gareth_22 (B1), GeneCoco_23 (B1), Gervas_24 (B3), Giraffe_23 (B1), GlenHope_25 (B3), Gophee_23 (B1), Grand2040_22 (B1), Gwilliam_23 (B1), Gyarad_0023 (B1), HSavage_23 (B1), Haimas_23 (B1), Haleema_22 (B1), Halfpint_23 (B3), Hamish_23 (B1), Hangman_21 (B4), Hartsy_22 (B1), HarveySr_24 (B3), Harvey_23 (B1), Hashim76_27 (B13), Heath_20 (B4), Heathcliff_24 (B3), Held_23 (B1), HenryJackson_22 (B1), Hertubise_23 (B1), Hetaeria_23 (B1), HighStump_22 (B1), Hocus_22 (B1), Horchata_23 (B1), Hydro_21 (B4), ImtiyazSitla_22 (B1), Imvubu_17 (B10), Inchworm_23 (B1), Indlovu_21 (B11), Inverness_23 (B1), Iridoclysis_23 (B1), IsaacEli_23 (B1), JAMaL_21 (B4), JDog_23 (B1), JacAttac_23 (B1), Jackstina_22 (B3), JaguarMi_21 (B4), JakeO_22 (B1), JangoPhett_23 (B1), Jillium_22 (B1), Jiminy_22 (B1), Jiraiya_23 (B1), KLUcky39_23 (B1), Kahve_22 (B1), Kailash_23 (B1), Kamiyu_24 (B3), Katniss_23 (B1), Keitherie_23 (B1), Kikipoo_23 (B1), Kimbrough_23 (B1), KingVeVeVe_23 (B1), KlimbOn_23 (B1), Kloppinator_23 (B1), Knocker_25 (B9), Kronus_23 (B3), Kwadwo_22 (B1), Kwksand96_22 (B1), Labeouficaum_22 (B1),

LasagnaCat_23 (B1), Lasso_23 (B1), LeeLot_23 (B1), Lego3393_23 (B1), Legolas_22 (B1), LeiMonet_23 (B1), LemonSlice_23 (B1), LestyG_24 (B3), Ligma_20 (DR), LilMcDreamy_20 (B12), LittleMunchkin_22 (DR), Lolalove_21 (B4), Longacauda_22 (B1), Lopsy_22 (B1), LostAndPhound_22 (B1), LuckyMarjie_22 (B1), Lulumae_22 (B1), Lulwa_23 (B1), Lumine_22 (B1), MRabcd_22 (B1), Mag7_22 (B1), Magic8_23 (B1), Magpie_20 (B4), Mana_22 (B1), Manad_22 (B1), Marley1013_24 (B3), Maru_22 (B1), Maskar_22 (B1), Matalotodo_22 (B1), Mcshane_22 (B1), Mecca_22 (B1), Megamind20_23 (B1), Megatron_23 (B1), Melc17_23 (B1), MelsMeow_22 (B1), Mesh1_23 (B1), MichaelPhcott_22 (B1), Mikota_23 (B1), MiniBoss_23 (B1), MitKao_23 (B1), Mithril_21 (B4), MmasiCarm_24 (B3), Morgushi_23 (B1), Mortcellus_23 (B3), Morty007_24 (B3), Morty_23 (B1), Mosaic_22 (B1), MrPhizzler_22 (B1), Mudslide_21 (B4), Mulan_22 (B1), Murdoc_23 (B1), Mutante_22 (B1), Mysterious_24 (B5), Nacho_0023 (B1), Nanao_20 (B4), Nangang_23 (B5), Neos5_24 (B3), Newman_23 (B1), Nicole21_23 (B1), Nigel_19 (B4), Nozo_24 (B3), Numberten_23 (B1), Nyala_22 (B1), OSmaximus_23 (B1), Obutu_24 (B3), Olak_23 (B1), Oline_22 (B1), Olive_23 (B1), OliverWalter_23 (B1), Omniscient_23 (B1), Oosterbaan_23 (B1), OrangeOswald_24 (B3), Orfeu_22 (B1), Orion_23 (B1), Orwigg_23 (B1), PG1_23 (B1), Pacifista_24 (B1), PenguinLover67_25 (B9), Phaedrus_22 (B3), Phamished_23 (B1), Phareon_23 (B1), PhatCats2014_23 (B1), PhatLouie_23 (B1), Phayeta_24 (B3), Phelemich_23 (B5), PhenghisKhan_22 (B1), Pherdinand_23 (B1), Phergie_22 (B1), Philly_23 (B3), Phipps_23 (B1), Phleuron_22 (B1), Phlyer_24 (B3), PhrankReynolds_22 (B1), PhrodoBaggins_22 (B1), Phunky_23 (B1), Piglet_0022 (B1), PinheadLarry_23 (B1), Pinkman_22 (B1), Pipefish_24 (B3), Pipsqueak_23 (B1), Placalicious_22 (B1), Plmatters_23 (B1), Podrick_23 (B1), Pops_23 (B1), Poster_20 (B4), Potter_22 (B1), Prickles_23 (B1), Prince_22 (B4), ProfessorX_23 (B1), Puhltonio_23 (B1), QueenBeane_23 (B1), Quesadilla_24 (B9), Quisquilliae_23 (B1), RagingRooster_24 (B3), RawrgerThat_21 (B4), RedMaple_22 (B1), Reprobate_23 (B5), Rich_22 (B5), Ricotta_23 (B1), Riggan_23 (B1), Rimu_23 (B1), Rita1961_24 (B3), Robyn_22 (B1), Roliet_23 (B1), RomaT_24 (B3), Roscoe_24 (B1), Roy17_23 (B1), SDcharge11_23 (B1), Saguaro_24 (B7), Samaymay_23 (B1), SassyCat97_22 (B1), Schadenfreude_22 (B1), Schueller_23 (B1), Scoot17C_23 (B1), Scrick_23 (B1), Selr12_23 (B1), Serendipitous_22 (B5), Serendipity_23 (B1), Serpentine_0023 (B1), Shatter_20 (DR), Sheila_23 (B1), ShiVal_23 (B1), Sigman_23 (B1), Simielle_22 (B1), SirJeffery_23 (B5), Sisko_20 (DR), Skippy_23 (B1), Slatt_23 (B1), SlippinJimmy_24 (B3), Soile_23 (B1), Solosis_22 (B1), Sophia_22 (B1), Soto_23 (B1), Spartan300_23 (B1), Squid_23 (B1), Squiggle_23 (B1), Stinger_19 (B4), StinkyVeggy_25 (B5), Struggle_22 (B1), Suffolk_23 (B1), Suigeneris_23 (B5), Surely_23 (B1), Swiphy_24 (B1), Swish_23 (B1), SynergyX_24 (B3), TallGrassMM_23 (B1), Telesworld_22 (B1), Thonko_22 (B8), Thora_23 (B1), ThreeOh3D2_23 (B1), Thunderbird_23 (B1), Timmi_22 (B1), TomBombadil_23 (B1), Tomlarah_23 (B1), Toni_22 (B1), Tooj_23 (B1), True_22 (B1), Trypo_23 (B1), Tydolla_24 (B3), TyrionL_22 (B1), UAch1_23 (B1), UncleHowie_23 (B1), Usavi_23 (B1), Vaishali24_22 (B1), Valjean_23 (B1), Vaticameos_23 (B1), Veritas_22 (B1), Vincenzo_22 (B4), VioletZ_21 (B4), Virapocalypse_23 (B1), Virgeve_22 (B1), Vista_23 (B1), Vivaldi_23 (B1), Vortex_23 (B1), Waleliano_21 (B4), Wallhey_22 (B1), Waterdiva_23 (B1), Weher20_23 (B1), Windsor_22 (B1), Xavier_22 (B1), Yahalom_24 (B3), Yinz_24 (B3), Yoshand_23 (B1), YouGoGlencoco_23 (B1), Zaider_24 (B1), Zelda_23 (B1), Zemanar_22 (B4), Zenteno07_27 (B13), Zonia_23 (B1),

Start 29:

- Found in 1 of 449 (0.2%) of genes in pham
- Manual Annotations of this start: 1 of 392

- Called 100.0% of time when present
- Phage (with cluster) where this start called: CRB2_25 (B9),

Start 30:

- Found in 47 of 449 (10.5%) of genes in pham
- Manual Annotations of this start: 10 of 392
- Called 23.4% of time when present
- Phage (with cluster) where this start called: Argie_18 (W), Cepens_17 (W), D12_17 (W), GodPhather_18 (W), Jeon_17 (W), Mao1_19 (AD), Mask_20 (AD), Megabear_17 (W), PR_17 (W), Sejanus_20 (AD), Taptic_17 (W),

Start 33:

- Found in 1 of 449 (0.2%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pine5_23 (singleton),

Start 37:

- Found in 53 of 449 (11.8%) of genes in pham
- No Manual Annotations of this start.
- Called 1.9% of time when present
- Phage (with cluster) where this start called: Ben11_23 (B3),

Summary by clusters:

There are 17 clusters represented in this pham: singleton, B2, B10, B8, B11, B4, B5, B6, B7, B13, B1, W, B3, B12, DR, B9, AD,

Info for manual annotations of cluster AD:

- Start number 27 was manually annotated 1 time for cluster AD.
- Start number 30 was manually annotated 2 times for cluster AD.

Info for manual annotations of cluster B1:

- Start number 28 was manually annotated 246 times for cluster B1.

Info for manual annotations of cluster B10:

- Start number 28 was manually annotated 1 time for cluster B10.

Info for manual annotations of cluster B11:

- Start number 28 was manually annotated 1 time for cluster B11.

Info for manual annotations of cluster B12:

- Start number 28 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B13:

- Start number 28 was manually annotated 2 times for cluster B13.

Info for manual annotations of cluster B2:

- Start number 25 was manually annotated 1 time for cluster B2.
- Start number 27 was manually annotated 31 times for cluster B2.

Info for manual annotations of cluster B3:

- Start number 28 was manually annotated 44 times for cluster B3.

Info for manual annotations of cluster B4:

- Start number 24 was manually annotated 1 time for cluster B4.
- Start number 28 was manually annotated 21 times for cluster B4.

Info for manual annotations of cluster B5:

- Start number 28 was manually annotated 8 times for cluster B5.

Info for manual annotations of cluster B6:

- Start number 27 was manually annotated 1 time for cluster B6.

Info for manual annotations of cluster B7:

- Start number 28 was manually annotated 1 time for cluster B7.

Info for manual annotations of cluster B8:

- Start number 28 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster B9:

- Start number 28 was manually annotated 4 times for cluster B9.
- Start number 29 was manually annotated 1 time for cluster B9.

Info for manual annotations of cluster DR:

- Start number 27 was manually annotated 11 times for cluster DR.
- Start number 28 was manually annotated 5 times for cluster DR.

Info for manual annotations of cluster W:

- Start number 30 was manually annotated 8 times for cluster W.

Gene Information:

Gene: 39HC_019 Start: 16977, Stop: 17525, Start Num: 27

Candidate Starts for 39HC_019:

(Start: 25 @16812 has 1 MA's), (26, 16926), (Start: 27 @16977 has 44 MA's), (35, 17010), (37, 17016), (39, 17022), (71, 17202), (81, 17271), (84, 17280), (86, 17292), (88, 17307), (94, 17373), (97, 17403), (115, 17505),

Gene: 40BC_019 Start: 16977, Stop: 17525, Start Num: 27

Candidate Starts for 40BC_019:

(Start: 25 @16812 has 1 MA's), (26, 16926), (Start: 27 @16977 has 44 MA's), (35, 17010), (37, 17016), (39, 17022), (71, 17202), (81, 17271), (84, 17280), (86, 17292), (88, 17307), (94, 17373), (97, 17403), (115, 17505),

Gene: ABU_23 Start: 17801, Stop: 18319, Start Num: 28

Candidate Starts for ABU_23:

(6, 17246), (7, 17300), (9, 17315), (10, 17324), (16, 17441), (18, 17483), (20, 17528), (26, 17747), (Start: 28 @17801 has 335 MA's), (38, 17834), (67, 17990), (68, 17996), (71, 18005), (81, 18071), (93, 18155), (109, 18257), (115, 18299),

Gene: Abinghost_24 Start: 18476, Stop: 18997, Start Num: 28

Candidate Starts for Abinghost_24:

(Start: 28 @18476 has 335 MA's), (37, 18506), (43, 18524), (47, 18536), (61, 18641), (81, 18764), (83, 18770), (85, 18779), (93, 18848), (104, 18905),

Gene: AbsoluteMadLad_22 Start: 17802, Stop: 18320, Start Num: 28

Candidate Starts for AbsoluteMadLad_22:

(26, 17748), (Start: 28 @17802 has 335 MA's), (38, 17835), (67, 17991), (68, 17997), (71, 18006), (81, 18072), (93, 18156), (109, 18258), (115, 18300),

Gene: Acadian_23 Start: 18554, Stop: 19045, Start Num: 28

Candidate Starts for Acadian_23:

(Start: 28 @18554 has 335 MA's), (42, 18590), (45, 18599), (55, 18641), (68, 18725), (69, 18728), (81, 18803), (86, 18824), (87, 18836), (111, 19007),

Gene: Adriana_23 Start: 17804, Stop: 18322, Start Num: 28

Candidate Starts for Adriana_23:

(6, 17249), (7, 17303), (9, 17318), (10, 17327), (16, 17444), (18, 17486), (20, 17531), (26, 17750), (Start: 28 @17804 has 335 MA's), (38, 17837), (67, 17993), (68, 17999), (71, 18008), (81, 18074), (93, 18158), (109, 18260), (115, 18302),

Gene: Aelin_22 Start: 17367, Stop: 17885, Start Num: 28

Candidate Starts for Aelin_22:

(26, 17313), (Start: 28 @17367 has 335 MA's), (38, 17400), (67, 17556), (68, 17562), (71, 17571), (81, 17637), (93, 17721), (109, 17823), (115, 17865),

Gene: Akoma_24 Start: 18474, Stop: 18995, Start Num: 28

Candidate Starts for Akoma_24:

(Start: 28 @18474 has 335 MA's), (37, 18504), (61, 18639), (81, 18762), (83, 18768), (85, 18777), (93, 18846), (104, 18903),

Gene: AlanGrant_22 Start: 19205, Stop: 19732, Start Num: 28

Candidate Starts for AlanGrant_22:

(Start: 28 @19205 has 335 MA's), (35, 19235), (48, 19292), (51, 19304), (68, 19409), (71, 19418), (74, 19457), (81, 19484), (84, 19493), (86, 19505), (88, 19520), (93, 19568), (94, 19574), (106, 19652),

Gene: Allegro_25 Start: 19911, Stop: 20471, Start Num: 27

Candidate Starts for Allegro_25:

(Start: 27 @19911 has 44 MA's), (Start: 30 @19929 has 10 MA's), (38, 19959), (42, 19971), (55, 20043), (62, 20100), (68, 20136), (73, 20187), (79, 20220), (100, 20367), (114, 20445),

Gene: AltPhacts_23 Start: 17796, Stop: 18314, Start Num: 28

Candidate Starts for AltPhacts_23:

(26, 17742), (Start: 28 @17796 has 335 MA's), (38, 17829), (67, 17985), (68, 17991), (71, 18000), (81, 18066), (93, 18150), (109, 18252), (115, 18294),

Gene: Altwerkus_22 Start: 17496, Stop: 18014, Start Num: 28

Candidate Starts for Altwerkus_22:

(26, 17442), (Start: 28 @17496 has 335 MA's), (38, 17529), (67, 17685), (68, 17691), (71, 17700), (81, 17766), (93, 17850), (109, 17952), (115, 17994),

Gene: AnClar_21 Start: 18550, Stop: 19098, Start Num: 28

Candidate Starts for AnClar_21:

(23, 18364), (Start: 25 @18382 has 1 MA's), (26, 18496), (Start: 27 @18547 has 44 MA's), (Start: 28 @18550 has 335 MA's), (45, 18616), (51, 18655), (58, 18706), (82, 18844), (86, 18862), (88, 18877),

(109, 19033), (111, 19057), (113, 19066),

Gene: AnarQue_22 Start: 17730, Stop: 18269, Start Num: 27

Candidate Starts for AnarQue_22:

(26, 17679), (Start: 27 @17730 has 44 MA's), (45, 17796), (71, 17952), (78, 18012), (81, 18021), (86, 18042), (97, 18141), (101, 18162), (111, 18231), (113, 18240),

Gene: Anderson_23 Start: 17794, Stop: 18312, Start Num: 28

Candidate Starts for Anderson_23:

(6, 17239), (7, 17293), (9, 17308), (10, 17317), (16, 17434), (18, 17476), (20, 17521), (26, 17740), (Start: 28 @17794 has 335 MA's), (38, 17827), (67, 17983), (68, 17989), (71, 17998), (81, 18064), (93, 18148), (109, 18250), (115, 18292),

Gene: Andre_23 Start: 17792, Stop: 18310, Start Num: 28

Candidate Starts for Andre_23:

(26, 17738), (Start: 28 @17792 has 335 MA's), (38, 17825), (67, 17981), (68, 17987), (71, 17996), (81, 18062), (93, 18146), (109, 18248), (115, 18290),

Gene: Antonia_22 Start: 17367, Stop: 17885, Start Num: 28

Candidate Starts for Antonia_22:

(26, 17313), (Start: 28 @17367 has 335 MA's), (38, 17400), (67, 17556), (68, 17562), (71, 17571), (81, 17637), (93, 17721), (109, 17823), (115, 17865),

Gene: Apex_21 Start: 18616, Stop: 19146, Start Num: 28

Candidate Starts for Apex_21:

(Start: 24 @18448 has 1 MA's), (Start: 28 @18616 has 335 MA's), (35, 18646), (51, 18715), (68, 18820), (72, 18850), (74, 18868), (82, 18901), (84, 18907), (86, 18919), (88, 18934), (94, 18988), (97, 19018), (106, 19066),

Gene: Apizium_22 Start: 17537, Stop: 18055, Start Num: 28

Candidate Starts for Apizium_22:

(26, 17483), (Start: 28 @17537 has 335 MA's), (38, 17570), (67, 17726), (68, 17732), (71, 17741), (81, 17807), (93, 17891), (109, 17993), (115, 18035),

Gene: Arbiter_25 Start: 19999, Stop: 20559, Start Num: 27

Candidate Starts for Arbiter_25:

(Start: 25 @19837 has 1 MA's), (Start: 27 @19999 has 44 MA's), (Start: 30 @20017 has 10 MA's), (31, 20020), (38, 20047), (42, 20059), (55, 20131), (62, 20188), (68, 20224), (73, 20275), (79, 20308), (100, 20455), (114, 20533),

Gene: Ares_25 Start: 19915, Stop: 20475, Start Num: 27

Candidate Starts for Ares_25:

(Start: 25 @19753 has 1 MA's), (Start: 27 @19915 has 44 MA's), (Start: 30 @19933 has 10 MA's), (31, 19936), (38, 19963), (42, 19975), (55, 20047), (62, 20104), (68, 20140), (73, 20191), (79, 20224), (100, 20371), (114, 20449),

Gene: Argie_18 Start: 17562, Stop: 18083, Start Num: 30

Candidate Starts for Argie_18:

(26, 17508), (Start: 30 @17562 has 10 MA's), (35, 17583), (45, 17613), (49, 17643), (54, 17670), (55, 17676), (60, 17715), (68, 17748), (74, 17802), (75, 17808), (77, 17823), (86, 17862), (89, 17880), (107, 18009), (108, 18018), (110, 18027), (115, 18063),

Gene: Ashraf_22 Start: 17358, Stop: 17876, Start Num: 28

Candidate Starts for Ashraf_22:

(26, 17304), (Start: 28 @17358 has 335 MA's), (38, 17391), (67, 17547), (68, 17553), (71, 17562), (81, 17628), (93, 17712), (109, 17814), (115, 17856),

Gene: Athena_25 Start: 19239, Stop: 19760, Start Num: 28

Candidate Starts for Athena_25:

(Start: 28 @19239 has 335 MA's), (37, 19269), (43, 19287), (47, 19299), (61, 19404), (81, 19527), (83, 19533), (85, 19542), (93, 19611), (104, 19668),

Gene: Audrey_24 Start: 18476, Stop: 18997, Start Num: 28

Candidate Starts for Audrey_24:

(Start: 28 @18476 has 335 MA's), (37, 18506), (43, 18524), (47, 18536), (61, 18641), (81, 18764), (83, 18770), (85, 18779), (93, 18848), (104, 18905),

Gene: Austelle_22 Start: 19072, Stop: 19602, Start Num: 28

Candidate Starts for Austelle_22:

(Start: 24 @18904 has 1 MA's), (Start: 28 @19072 has 335 MA's), (35, 19102), (51, 19171), (68, 19276), (72, 19306), (74, 19324), (82, 19357), (84, 19363), (86, 19375), (88, 19390), (94, 19444), (97, 19474), (106, 19522),

Gene: Axumite_20 Start: 16345, Stop: 16893, Start Num: 28

Candidate Starts for Axumite_20:

(21, 16072), (23, 16159), (Start: 25 @16177 has 1 MA's), (26, 16291), (Start: 28 @16345 has 335 MA's), (31, 16363), (45, 16411), (81, 16636), (86, 16657), (88, 16672), (111, 16852), (113, 16861),

Gene: Badfish_23 Start: 17826, Stop: 18344, Start Num: 28

Candidate Starts for Badfish_23:

(6, 17271), (7, 17325), (9, 17340), (10, 17349), (16, 17466), (18, 17508), (20, 17553), (26, 17772), (Start: 28 @17826 has 335 MA's), (38, 17859), (67, 18015), (68, 18021), (71, 18030), (81, 18096), (93, 18180), (109, 18282), (115, 18324),

Gene: Bae_22 Start: 18312, Stop: 18803, Start Num: 28

Candidate Starts for Bae_22:

(11, 17838), (13, 17844), (15, 17856), (17, 17952), (19, 17994), (26, 18258), (Start: 28 @18312 has 335 MA's), (42, 18348), (45, 18357), (55, 18399), (68, 18483), (81, 18561), (86, 18582), (87, 18594), (89, 18600), (100, 18699), (111, 18765),

Gene: Baloo_24 Start: 18473, Stop: 18994, Start Num: 28

Candidate Starts for Baloo_24:

(Start: 28 @18473 has 335 MA's), (37, 18503), (43, 18521), (47, 18533), (61, 18638), (81, 18761), (83, 18767), (85, 18776), (93, 18845), (104, 18902),

Gene: Bananafish_25 Start: 19908, Stop: 20468, Start Num: 27

Candidate Starts for Bananafish_25:

(Start: 25 @19746 has 1 MA's), (Start: 27 @19908 has 44 MA's), (Start: 30 @19926 has 10 MA's), (31, 19929), (38, 19956), (42, 19968), (55, 20040), (62, 20097), (68, 20133), (73, 20184), (79, 20217), (100, 20364), (114, 20442),

Gene: Banjo_22 Start: 17503, Stop: 18021, Start Num: 28

Candidate Starts for Banjo_22:

(26, 17449), (Start: 28 @17503 has 335 MA's), (38, 17536), (67, 17692), (68, 17698), (71, 17707), (81, 17773), (93, 17857), (109, 17959), (115, 18001),

Gene: Basato_24 Start: 18028, Stop: 18546, Start Num: 28

Candidate Starts for Basato_24:

(26, 17974), (Start: 28 @18028 has 335 MA's), (38, 18061), (67, 18217), (68, 18223), (71, 18232), (81, 18298), (93, 18382), (109, 18484), (115, 18526),

Gene: BatteryCK_22 Start: 17360, Stop: 17878, Start Num: 28

Candidate Starts for BatteryCK_22:

(2, 16754), (6, 16805), (7, 16859), (9, 16874), (10, 16883), (16, 17000), (18, 17042), (20, 17087), (26, 17306), (Start: 28 @17360 has 335 MA's), (38, 17393), (67, 17549), (68, 17555), (71, 17564), (81, 17630), (93, 17714), (109, 17816), (115, 17858),

Gene: Beaglebox_22 Start: 17523, Stop: 18041, Start Num: 28

Candidate Starts for Beaglebox_22:

(6, 16968), (7, 17022), (9, 17037), (10, 17046), (16, 17163), (18, 17205), (20, 17250), (26, 17469), (Start: 28 @17523 has 335 MA's), (38, 17556), (67, 17712), (68, 17718), (71, 17727), (81, 17793), (93, 17877), (109, 17979), (115, 18021),

Gene: Ben11_23 Start: 18328, Stop: 18819, Start Num: 37

Candidate Starts for Ben11_23:

(Start: 28 @18298 has 335 MA's), (37, 18328), (43, 18346), (47, 18358), (61, 18463), (81, 18586), (83, 18592), (85, 18601), (93, 18670), (104, 18727),

Gene: Bernardo_24 Start: 18473, Stop: 18994, Start Num: 28

Candidate Starts for Bernardo_24:

(Start: 28 @18473 has 335 MA's), (37, 18503), (43, 18521), (61, 18638), (81, 18761), (83, 18767), (85, 18776), (93, 18845), (104, 18902),

Gene: BiggityBass_20 Start: 18635, Stop: 19186, Start Num: 27

Candidate Starts for BiggityBass_20:

(23, 18452), (Start: 25 @18470 has 1 MA's), (26, 18584), (Start: 27 @18635 has 44 MA's), (Start: 28 @18638 has 335 MA's), (31, 18656), (51, 18743), (86, 18950), (88, 18965), (109, 19121), (111, 19145), (113, 19154),

Gene: BirdsNest_26 Start: 17878, Stop: 18396, Start Num: 28

Candidate Starts for BirdsNest_26:

(12, 17407), (14, 17419), (Start: 25 @17710 has 1 MA's), (Start: 28 @17878 has 335 MA's), (41, 17920), (53, 17983), (55, 17992), (71, 18079), (82, 18151), (85, 18163), (88, 18184), (118, 18391),

Gene: Bishoperium_22 Start: 17509, Stop: 18027, Start Num: 28

Candidate Starts for Bishoperium_22:

(26, 17455), (Start: 28 @17509 has 335 MA's), (38, 17542), (67, 17698), (68, 17704), (71, 17713), (81, 17779), (93, 17863), (109, 17965), (115, 18007),

Gene: BlackStallion_23 Start: 17814, Stop: 18332, Start Num: 28

Candidate Starts for BlackStallion_23:

(6, 17259), (7, 17313), (9, 17328), (10, 17337), (16, 17454), (18, 17496), (20, 17541), (26, 17760), (Start: 28 @17814 has 335 MA's), (38, 17847), (67, 18003), (68, 18009), (71, 18018), (81, 18084), (93, 18168), (109, 18270), (115, 18312),

Gene: Blocker23_25 Start: 20032, Stop: 20592, Start Num: 27

Candidate Starts for Blocker23_25:

(Start: 25 @19870 has 1 MA's), (Start: 27 @20032 has 44 MA's), (Start: 30 @20050 has 10 MA's), (38, 20080), (42, 20092), (55, 20164), (62, 20221), (68, 20257), (73, 20308), (79, 20341), (100,

20488), (114, 20566),

Gene: BlueHusk_23 Start: 17310, Stop: 17828, Start Num: 28

Candidate Starts for BlueHusk_23:

(26, 17256), (Start: 28 @17310 has 335 MA's), (38, 17343), (67, 17499), (68, 17505), (71, 17514), (81, 17580), (93, 17664), (109, 17766), (115, 17808),

Gene: Bluephacebaby_22 Start: 17509, Stop: 18027, Start Num: 28

Candidate Starts for Bluephacebaby_22:

(26, 17455), (Start: 28 @17509 has 335 MA's), (38, 17542), (67, 17698), (68, 17704), (71, 17713), (81, 17779), (93, 17863), (109, 17965), (115, 18007),

Gene: BobbyK_21 Start: 18435, Stop: 18965, Start Num: 28

Candidate Starts for BobbyK_21:

(Start: 24 @18267 has 1 MA's), (Start: 28 @18435 has 335 MA's), (35, 18465), (51, 18534), (68, 18639), (72, 18669), (74, 18687), (82, 18720), (84, 18726), (86, 18738), (88, 18753), (94, 18807), (97, 18837), (106, 18885),

Gene: Boehler_23 Start: 17819, Stop: 18337, Start Num: 28

Candidate Starts for Boehler_23:

(26, 17765), (Start: 28 @17819 has 335 MA's), (38, 17852), (67, 18008), (68, 18014), (71, 18023), (81, 18089), (93, 18173), (109, 18275), (115, 18317),

Gene: Boyle_25 Start: 20033, Stop: 20593, Start Num: 27

Candidate Starts for Boyle_25:

(Start: 25 @19871 has 1 MA's), (Start: 27 @20033 has 44 MA's), (Start: 30 @20051 has 10 MA's), (31, 20054), (38, 20081), (42, 20093), (55, 20165), (62, 20222), (68, 20258), (73, 20309), (79, 20342), (100, 20489), (114, 20567),

Gene: Briakila_24 Start: 19241, Stop: 19762, Start Num: 28

Candidate Starts for Briakila_24:

(Start: 28 @19241 has 335 MA's), (37, 19271), (61, 19406), (81, 19529), (83, 19535), (85, 19544), (93, 19613), (104, 19670),

Gene: Brilliant_23 Start: 17514, Stop: 18032, Start Num: 28

Candidate Starts for Brilliant_23:

(2, 16908), (6, 16959), (7, 17013), (9, 17028), (10, 17037), (16, 17154), (18, 17196), (20, 17241), (26, 17460), (Start: 28 @17514 has 335 MA's), (38, 17547), (67, 17703), (68, 17709), (71, 17718), (81, 17784), (93, 17868), (109, 17970), (115, 18012),

Gene: BrownCNA_22 Start: 18687, Stop: 19217, Start Num: 28

Candidate Starts for BrownCNA_22:

(Start: 24 @18519 has 1 MA's), (Start: 28 @18687 has 335 MA's), (35, 18717), (51, 18786), (68, 18891), (72, 18921), (74, 18939), (82, 18972), (84, 18978), (86, 18990), (88, 19005), (94, 19059), (106, 19137),

Gene: Brownie5_25 Start: 20032, Stop: 20592, Start Num: 27

Candidate Starts for Brownie5_25:

(Start: 25 @19870 has 1 MA's), (Start: 27 @20032 has 44 MA's), (Start: 30 @20050 has 10 MA's), (31, 20053), (38, 20080), (42, 20092), (55, 20164), (62, 20221), (68, 20257), (73, 20308), (79, 20341), (100, 20488), (114, 20566),

Gene: Buckeye_23 Start: 17833, Stop: 18351, Start Num: 28

Candidate Starts for Buckeye_23:

(6, 17278), (7, 17332), (9, 17347), (10, 17356), (16, 17473), (18, 17515), (20, 17560), (26, 17779), (Start: 28 @17833 has 335 MA's), (38, 17866), (67, 18022), (68, 18028), (71, 18037), (81, 18103), (93, 18187), (109, 18289), (115, 18331),

Gene: Burr_22 Start: 17508, Stop: 18026, Start Num: 28

Candidate Starts for Burr_22:

(6, 16953), (7, 17007), (9, 17022), (10, 17031), (16, 17148), (18, 17190), (20, 17235), (26, 17454), (Start: 28 @17508 has 335 MA's), (38, 17541), (67, 17697), (68, 17703), (71, 17712), (81, 17778), (93, 17862), (109, 17964), (115, 18006),

Gene: CRB2_25 Start: 20186, Stop: 20707, Start Num: 29

Candidate Starts for CRB2_25:

(Start: 25 @20015 has 1 MA's), (Start: 28 @20183 has 335 MA's), (Start: 29 @20186 has 1 MA's), (37, 20216), (71, 20390), (81, 20459), (86, 20480), (88, 20495), (95, 20555), (98, 20585), (106, 20627), (111, 20669),

Gene: CaiB_22 Start: 17716, Stop: 18255, Start Num: 27

Candidate Starts for CaiB_22:

(26, 17665), (Start: 27 @17716 has 44 MA's), (45, 17782), (71, 17938), (78, 17998), (81, 18007), (86, 18028), (97, 18127), (101, 18148), (111, 18217), (113, 18226),

Gene: Calamitous_25 Start: 19912, Stop: 20472, Start Num: 27

Candidate Starts for Calamitous_25:

(Start: 25 @19750 has 1 MA's), (Start: 27 @19912 has 44 MA's), (Start: 30 @19930 has 10 MA's), (31, 19933), (38, 19960), (42, 19972), (55, 20044), (62, 20101), (68, 20137), (73, 20188), (79, 20221), (100, 20368), (114, 20446),

Gene: CamL_23 Start: 17807, Stop: 18325, Start Num: 28

Candidate Starts for CamL_23:

(26, 17753), (Start: 28 @17807 has 335 MA's), (38, 17840), (67, 17996), (68, 18002), (71, 18011), (81, 18077), (93, 18161), (109, 18263), (115, 18305),

Gene: CampRoach_22 Start: 17800, Stop: 18318, Start Num: 28

Candidate Starts for CampRoach_22:

(6, 17245), (7, 17299), (9, 17314), (10, 17323), (16, 17440), (18, 17482), (20, 17527), (26, 17746), (Start: 28 @17800 has 335 MA's), (38, 17833), (67, 17989), (68, 17995), (71, 18004), (81, 18070), (93, 18154), (109, 18256), (115, 18298),

Gene: Cannibal_23 Start: 17793, Stop: 18311, Start Num: 28

Candidate Starts for Cannibal_23:

(6, 17238), (7, 17292), (9, 17307), (10, 17316), (16, 17433), (18, 17475), (20, 17520), (26, 17739), (Start: 28 @17793 has 335 MA's), (38, 17826), (67, 17982), (68, 17988), (71, 17997), (81, 18063), (93, 18147), (109, 18249), (115, 18291),

Gene: Carthage_21 Start: 16719, Stop: 17237, Start Num: 28

Candidate Starts for Carthage_21:

(26, 16665), (Start: 28 @16719 has 335 MA's), (38, 16752), (67, 16908), (68, 16914), (71, 16923), (81, 16989), (93, 17073), (109, 17175), (115, 17217),

Gene: Casbah_23 Start: 18328, Stop: 18849, Start Num: 28

Candidate Starts for Casbah_23:

(Start: 28 @18328 has 335 MA's), (37, 18358), (61, 18493), (81, 18616), (83, 18622), (85, 18631), (93, 18700), (104, 18757),

Gene: Cepens_17 Start: 17286, Stop: 17807, Start Num: 30

Candidate Starts for Cepens_17:

(26, 17232), (Start: 30 @17286 has 10 MA's), (45, 17337), (49, 17367), (54, 17394), (55, 17400), (68, 17472), (74, 17526), (75, 17532), (77, 17547), (86, 17586), (89, 17604), (107, 17733), (108, 17742), (110, 17751), (115, 17787),

Gene: ChaChing_24 Start: 18491, Stop: 19012, Start Num: 28

Candidate Starts for ChaChing_24:

(Start: 28 @18491 has 335 MA's), (37, 18521), (43, 18539), (47, 18551), (61, 18656), (81, 18779), (83, 18785), (85, 18794), (93, 18863), (104, 18920),

Gene: Chaelin_22 Start: 17476, Stop: 17994, Start Num: 28

Candidate Starts for Chaelin_22:

(6, 16921), (7, 16975), (9, 16990), (10, 16999), (16, 17116), (18, 17158), (20, 17203), (26, 17422), (Start: 28 @17476 has 335 MA's), (38, 17509), (67, 17665), (68, 17671), (71, 17680), (81, 17746), (93, 17830), (109, 17932), (115, 17974),

Gene: Chah_24 Start: 17827, Stop: 18345, Start Num: 28

Candidate Starts for Chah_24:

(26, 17773), (Start: 28 @17827 has 335 MA's), (38, 17860), (67, 18016), (68, 18022), (71, 18031), (81, 18097), (93, 18181), (109, 18283), (115, 18325),

Gene: Chandler_24 Start: 19250, Stop: 19771, Start Num: 28

Candidate Starts for Chandler_24:

(Start: 28 @19250 has 335 MA's), (37, 19280), (43, 19298), (47, 19310), (61, 19415), (81, 19538), (83, 19544), (85, 19553), (93, 19622), (104, 19679),

Gene: Charles1_23 Start: 17791, Stop: 18309, Start Num: 28

Candidate Starts for Charles1_23:

(6, 17236), (7, 17290), (9, 17305), (10, 17314), (16, 17431), (18, 17473), (20, 17518), (26, 17737), (Start: 28 @17791 has 335 MA's), (38, 17824), (67, 17980), (68, 17986), (71, 17995), (81, 18061), (93, 18145), (109, 18247), (115, 18289),

Gene: CharlieGBrown_22 Start: 17378, Stop: 17896, Start Num: 28

Candidate Starts for CharlieGBrown_22:

(2, 16772), (6, 16823), (7, 16877), (9, 16892), (10, 16901), (16, 17018), (18, 17060), (20, 17105), (26, 17324), (Start: 28 @17378 has 335 MA's), (38, 17411), (67, 17567), (68, 17573), (71, 17582), (81, 17648), (93, 17732), (109, 17834), (115, 17876),

Gene: CharlottesWeb_20 Start: 16236, Stop: 16784, Start Num: 27

Candidate Starts for CharlottesWeb_20:

(23, 16053), (Start: 25 @16071 has 1 MA's), (26, 16185), (Start: 27 @16236 has 44 MA's), (45, 16302), (71, 16458), (80, 16524), (86, 16548), (88, 16563), (97, 16647), (113, 16752),

Gene: CheetO_23 Start: 17806, Stop: 18324, Start Num: 28

Candidate Starts for CheetO_23:

(26, 17752), (Start: 28 @17806 has 335 MA's), (38, 17839), (67, 17995), (68, 18001), (71, 18010), (81, 18076), (93, 18160), (109, 18262), (115, 18304),

Gene: Cher_22 Start: 17532, Stop: 18050, Start Num: 28

Candidate Starts for Cher_22:

(26, 17478), (Start: 28 @17532 has 335 MA's), (38, 17565), (67, 17721), (68, 17727), (71, 17736), (81, 17802), (93, 17886), (109, 17988), (115, 18030),

Gene: Childish_22 Start: 17520, Stop: 18038, Start Num: 28

Candidate Starts for Childish_22:

(26, 17466), (Start: 28 @17520 has 335 MA's), (38, 17553), (67, 17709), (68, 17715), (71, 17724), (81, 17790), (93, 17874), (109, 17976), (115, 18018),

Gene: Chorkpop_23 Start: 17531, Stop: 18049, Start Num: 28

Candidate Starts for Chorkpop_23:

(26, 17477), (Start: 28 @17531 has 335 MA's), (38, 17564), (67, 17720), (68, 17726), (71, 17735), (81, 17801), (93, 17885), (109, 17987), (115, 18029),

Gene: ChrisnMich_20 Start: 17392, Stop: 17922, Start Num: 28

Candidate Starts for ChrisnMich_20:

(Start: 24 @17224 has 1 MA's), (Start: 28 @17392 has 335 MA's), (35, 17422), (51, 17491), (68, 17596), (72, 17626), (74, 17644), (82, 17677), (84, 17683), (86, 17695), (88, 17710), (94, 17764), (106, 17842),

Gene: Chunky_23 Start: 17819, Stop: 18337, Start Num: 28

Candidate Starts for Chunky_23:

(26, 17765), (Start: 28 @17819 has 335 MA's), (38, 17852), (67, 18008), (68, 18014), (71, 18023), (81, 18089), (93, 18173), (109, 18275), (115, 18317),

Gene: Chute_22 Start: 17824, Stop: 18342, Start Num: 28

Candidate Starts for Chute_22:

(2, 17218), (6, 17269), (7, 17323), (9, 17338), (10, 17347), (16, 17464), (18, 17506), (20, 17551), (26, 17770), (Start: 28 @17824 has 335 MA's), (38, 17857), (67, 18013), (68, 18019), (71, 18028), (81, 18094), (93, 18178), (109, 18280), (115, 18322),

Gene: CloverMinnie_22 Start: 17656, Stop: 18195, Start Num: 27

Candidate Starts for CloverMinnie_22:

(26, 17605), (Start: 27 @17656 has 44 MA's), (45, 17722), (71, 17878), (78, 17938), (81, 17947), (86, 17968), (97, 18067), (101, 18088), (111, 18157), (113, 18166),

Gene: Cobra_23 Start: 17812, Stop: 18330, Start Num: 28

Candidate Starts for Cobra_23:

(26, 17758), (Start: 28 @17812 has 335 MA's), (38, 17845), (67, 18001), (68, 18007), (71, 18016), (81, 18082), (93, 18166), (109, 18268), (115, 18310),

Gene: Coffee_25 Start: 20025, Stop: 20585, Start Num: 27

Candidate Starts for Coffee_25:

(Start: 25 @19863 has 1 MA's), (Start: 27 @20025 has 44 MA's), (Start: 30 @20043 has 10 MA's), (31, 20046), (38, 20073), (42, 20085), (55, 20157), (62, 20214), (68, 20250), (73, 20301), (79, 20334), (100, 20481), (114, 20559),

Gene: Colbert_23 Start: 17809, Stop: 18327, Start Num: 28

Candidate Starts for Colbert_23:

(26, 17755), (Start: 28 @17809 has 335 MA's), (38, 17842), (67, 17998), (68, 18004), (71, 18013), (81, 18079), (93, 18163), (109, 18265), (115, 18307),

Gene: Coletti_22 Start: 17824, Stop: 18342, Start Num: 28

Candidate Starts for Coletti_22:

(2, 17218), (6, 17269), (7, 17323), (9, 17338), (10, 17347), (16, 17464), (18, 17506), (20, 17551), (26, 17770), (Start: 28 @17824 has 335 MA's), (38, 17857), (67, 18013), (68, 18019), (71, 18028), (81, 18094), (93, 18178), (109, 18280), (115, 18322),

Gene: Compostia_25 Start: 18909, Stop: 19430, Start Num: 28

Candidate Starts for Compostia_25:

(Start: 28 @18909 has 335 MA's), (37, 18939), (43, 18957), (47, 18969), (61, 19074), (81, 19197), (83, 19203), (85, 19212), (93, 19281), (104, 19338),

Gene: Cooper_21 Start: 17506, Stop: 18036, Start Num: 28

Candidate Starts for Cooper_21:

(14, 17050), (18, 17188), (Start: 24 @17338 has 1 MA's), (Start: 28 @17506 has 335 MA's), (35, 17536), (51, 17605), (68, 17710), (74, 17758), (75, 17764), (81, 17788), (82, 17791), (84, 17797), (86, 17809), (88, 17824), (94, 17878), (96, 17896), (97, 17908), (102, 17932), (106, 17956), (116, 18019),

Gene: Cornobble_22 Start: 17367, Stop: 17885, Start Num: 28

Candidate Starts for Cornobble_22:

(6, 16812), (7, 16866), (9, 16881), (10, 16890), (16, 17007), (18, 17049), (20, 17094), (26, 17313), (Start: 28 @17367 has 335 MA's), (38, 17400), (67, 17556), (68, 17562), (71, 17571), (81, 17637), (93, 17721), (109, 17823), (115, 17865),

Gene: Corofin_24 Start: 18501, Stop: 19022, Start Num: 28

Candidate Starts for Corofin_24:

(Start: 28 @18501 has 335 MA's), (37, 18531), (43, 18549), (47, 18561), (61, 18666), (81, 18789), (83, 18795), (85, 18804), (93, 18873), (104, 18930),

Gene: Cosmolli16_22 Start: 17526, Stop: 18044, Start Num: 28

Candidate Starts for Cosmolli16_22:

(6, 16971), (7, 17025), (9, 17040), (10, 17049), (16, 17166), (18, 17208), (20, 17253), (26, 17472), (Start: 28 @17526 has 335 MA's), (38, 17559), (67, 17715), (68, 17721), (71, 17730), (81, 17796), (93, 17880), (109, 17982), (115, 18024),

Gene: Craff_23 Start: 17813, Stop: 18331, Start Num: 28

Candidate Starts for Craff_23:

(6, 17258), (7, 17312), (9, 17327), (10, 17336), (16, 17453), (18, 17495), (20, 17540), (26, 17759), (Start: 28 @17813 has 335 MA's), (38, 17846), (67, 18002), (68, 18008), (71, 18017), (81, 18083), (93, 18167), (109, 18269), (115, 18311),

Gene: Crownjwl_23 Start: 17580, Stop: 18098, Start Num: 28

Candidate Starts for Crownjwl_23:

(26, 17526), (Start: 28 @17580 has 335 MA's), (38, 17613), (67, 17769), (68, 17775), (71, 17784), (81, 17850), (93, 17934), (109, 18036), (115, 18078),

Gene: D12_17 Start: 17279, Stop: 17800, Start Num: 30

Candidate Starts for D12_17:

(26, 17225), (Start: 30 @17279 has 10 MA's), (45, 17330), (49, 17360), (52, 17372), (54, 17387), (55, 17393), (68, 17465), (74, 17519), (75, 17525), (77, 17540), (86, 17579), (89, 17597), (107, 17726), (108, 17735), (110, 17744), (115, 17780),

Gene: DaddyDaniels_23 Start: 17505, Stop: 18023, Start Num: 28

Candidate Starts for DaddyDaniels_23:

(26, 17451), (Start: 28 @17505 has 335 MA's), (38, 17538), (67, 17694), (68, 17700), (71, 17709), (81, 17775), (93, 17859), (109, 17961), (115, 18003),

Gene: Daffy_23 Start: 17532, Stop: 18050, Start Num: 28

Candidate Starts for Daffy_23:

(26, 17478), (Start: 28 @17532 has 335 MA's), (38, 17565), (67, 17721), (68, 17727), (71, 17736), (81, 17802), (93, 17886), (109, 17988), (115, 18030),

Gene: Daisy_24 Start: 18497, Stop: 19018, Start Num: 28

Candidate Starts for Daisy_24:

(Start: 28 @18497 has 335 MA's), (37, 18527), (43, 18545), (47, 18557), (61, 18662), (81, 18785), (83, 18791), (85, 18800), (93, 18869), (104, 18926),

Gene: Daka_23 Start: 17809, Stop: 18327, Start Num: 28

Candidate Starts for Daka_23:

(26, 17755), (Start: 28 @17809 has 335 MA's), (38, 17842), (67, 17998), (68, 18004), (71, 18013), (81, 18079), (93, 18163), (109, 18265), (115, 18307),

Gene: Dati_23 Start: 17522, Stop: 18040, Start Num: 28

Candidate Starts for Dati_23:

(2, 16916), (6, 16967), (7, 17021), (9, 17036), (10, 17045), (16, 17162), (18, 17204), (20, 17249), (26, 17468), (Start: 28 @17522 has 335 MA's), (38, 17555), (67, 17711), (68, 17717), (71, 17726), (81, 17792), (93, 17876), (109, 17978), (115, 18020),

Gene: Deenasa_24 Start: 19239, Stop: 19760, Start Num: 28

Candidate Starts for Deenasa_24:

(Start: 28 @19239 has 335 MA's), (37, 19269), (61, 19404), (81, 19527), (83, 19533), (85, 19542), (93, 19611), (104, 19668),

Gene: DelRivs_22 Start: 17521, Stop: 18039, Start Num: 28

Candidate Starts for DelRivs_22:

(6, 16966), (7, 17020), (9, 17035), (10, 17044), (16, 17161), (18, 17203), (20, 17248), (26, 17467), (Start: 28 @17521 has 335 MA's), (38, 17554), (67, 17710), (68, 17716), (71, 17725), (81, 17791), (93, 17875), (109, 17977), (115, 18019),

Gene: Derpp_22 Start: 17368, Stop: 17886, Start Num: 28

Candidate Starts for Derpp_22:

(6, 16813), (7, 16867), (9, 16882), (10, 16891), (16, 17008), (18, 17050), (20, 17095), (26, 17314), (Start: 28 @17368 has 335 MA's), (38, 17401), (67, 17557), (68, 17563), (71, 17572), (81, 17638), (93, 17722), (109, 17824), (115, 17866),

Gene: Devonte_24 Start: 18476, Stop: 18997, Start Num: 28

Candidate Starts for Devonte_24:

(Start: 28 @18476 has 335 MA's), (37, 18506), (43, 18524), (47, 18536), (61, 18641), (81, 18764), (83, 18770), (85, 18779), (93, 18848), (104, 18905),

Gene: Dice_24 Start: 17509, Stop: 18027, Start Num: 28

Candidate Starts for Dice_24:

(6, 16954), (7, 17008), (9, 17023), (10, 17032), (16, 17149), (18, 17191), (20, 17236), (26, 17455), (Start: 28 @17509 has 335 MA's), (38, 17542), (67, 17698), (68, 17704), (71, 17713), (81, 17779), (93, 17863), (109, 17965), (115, 18007),

Gene: DigitDog_23 Start: 18144, Stop: 18635, Start Num: 28

Candidate Starts for DigitDog_23:

(26, 18090), (Start: 28 @18144 has 335 MA's), (41, 18177), (42, 18180), (45, 18189), (68, 18315), (81, 18393), (86, 18414), (87, 18426), (100, 18531), (111, 18597),

Gene: Dingo_23 Start: 17793, Stop: 18311, Start Num: 28

Candidate Starts for Dingo_23:

(26, 17739), (Start: 28 @17793 has 335 MA's), (38, 17826), (67, 17982), (68, 17988), (71, 17997), (81, 18063), (93, 18147), (109, 18249), (115, 18291),

Gene: Dione_22 Start: 17510, Stop: 18028, Start Num: 28

Candidate Starts for Dione_22:

(26, 17456), (Start: 28 @17510 has 335 MA's), (38, 17543), (67, 17699), (68, 17705), (71, 17714), (81, 17780), (93, 17864), (109, 17966), (115, 18008),

Gene: DirtJuice_23 Start: 17795, Stop: 18313, Start Num: 28

Candidate Starts for DirtJuice_23:

(26, 17741), (Start: 28 @17795 has 335 MA's), (38, 17828), (67, 17984), (68, 17990), (71, 17999), (81, 18065), (93, 18149), (109, 18251), (115, 18293),

Gene: Doddsville_23 Start: 17522, Stop: 18040, Start Num: 28

Candidate Starts for Doddsville_23:

(26, 17468), (Start: 28 @17522 has 335 MA's), (38, 17555), (67, 17711), (68, 17717), (71, 17726), (81, 17792), (93, 17876), (109, 17978), (115, 18020),

Gene: DoesntMatter_23 Start: 17791, Stop: 18309, Start Num: 28

Candidate Starts for DoesntMatter_23:

(6, 17236), (7, 17290), (9, 17305), (10, 17314), (16, 17431), (18, 17473), (20, 17518), (26, 17737), (Start: 28 @17791 has 335 MA's), (38, 17824), (67, 17980), (68, 17986), (71, 17995), (81, 18061), (93, 18145), (109, 18247), (115, 18289),

Gene: DonSanchon_22 Start: 17508, Stop: 18026, Start Num: 28

Candidate Starts for DonSanchon_22:

(26, 17454), (Start: 28 @17508 has 335 MA's), (38, 17541), (67, 17697), (68, 17703), (71, 17712), (81, 17778), (93, 17862), (109, 17964), (115, 18006),

Gene: Donny_23 Start: 18559, Stop: 19050, Start Num: 28

Candidate Starts for Donny_23:

(26, 18505), (Start: 28 @18559 has 335 MA's), (42, 18595), (45, 18604), (55, 18646), (68, 18730), (81, 18808), (86, 18829), (87, 18841), (89, 18847), (111, 19012),

Gene: Dori_20 Start: 15428, Stop: 15976, Start Num: 27

Candidate Starts for Dori_20:

(22, 15245), (Start: 25 @15266 has 1 MA's), (26, 15377), (Start: 27 @15428 has 44 MA's), (Start: 30 @15431 has 10 MA's), (45, 15482), (49, 15512), (55, 15545), (57, 15572), (59, 15584), (64, 15614), (68, 15641), (78, 15725), (79, 15728), (86, 15755), (89, 15773), (115, 15956),

Gene: DuchessDung_21 Start: 16659, Stop: 17177, Start Num: 28

Candidate Starts for DuchessDung_21:

(26, 16605), (Start: 28 @16659 has 335 MA's), (38, 16692), (67, 16848), (68, 16854), (71, 16863), (81, 16929), (93, 17013), (109, 17115), (115, 17157),

Gene: Duggie_22 Start: 17524, Stop: 18042, Start Num: 28

Candidate Starts for Duggie_22:

(26, 17470), (Start: 28 @17524 has 335 MA's), (38, 17557), (67, 17713), (68, 17719), (71, 17728), (81, 17794), (93, 17878), (109, 17980), (115, 18022),

Gene: Durga_23 Start: 17821, Stop: 18339, Start Num: 28

Candidate Starts for Durga_23:

(2, 17215), (6, 17266), (7, 17320), (9, 17335), (10, 17344), (16, 17461), (18, 17503), (20, 17548), (26, 17767), (Start: 28 @17821 has 335 MA's), (38, 17854), (67, 18010), (68, 18016), (71, 18025), (81, 18091), (93, 18175), (109, 18277), (115, 18319),

Gene: Eaglehorse_25 Start: 19933, Stop: 20493, Start Num: 27

Candidate Starts for Eaglehorse_25:

(Start: 25 @19771 has 1 MA's), (Start: 27 @19933 has 44 MA's), (Start: 30 @19951 has 10 MA's), (31, 19954), (38, 19981), (42, 19993), (55, 20065), (62, 20122), (68, 20158), (73, 20209), (79, 20242), (100, 20389), (114, 20467),

Gene: EastView9101_23 Start: 18189, Stop: 18680, Start Num: 28

Candidate Starts for EastView9101_23:

(26, 18135), (Start: 28 @18189 has 335 MA's), (42, 18225), (45, 18234), (55, 18276), (68, 18360), (76, 18417), (81, 18438), (86, 18459), (87, 18471), (100, 18576), (111, 18642),

Gene: Emiris_23 Start: 17802, Stop: 18320, Start Num: 28

Candidate Starts for Emiris_23:

(26, 17748), (Start: 28 @17802 has 335 MA's), (38, 17835), (67, 17991), (68, 17997), (71, 18006), (81, 18072), (93, 18156), (109, 18258), (115, 18300),

Gene: EmpTee_23 Start: 17808, Stop: 18326, Start Num: 28

Candidate Starts for EmpTee_23:

(26, 17754), (Start: 28 @17808 has 335 MA's), (38, 17841), (67, 17997), (68, 18003), (71, 18012), (81, 18078), (93, 18162), (109, 18264), (115, 18306),

Gene: Eremos_23 Start: 17808, Stop: 18326, Start Num: 28

Candidate Starts for Eremos_23:

(26, 17754), (Start: 28 @17808 has 335 MA's), (38, 17841), (67, 17997), (68, 18003), (71, 18012), (81, 18078), (93, 18162), (109, 18264), (115, 18306),

Gene: Etaye_23 Start: 17794, Stop: 18312, Start Num: 28

Candidate Starts for Etaye_23:

(2, 17188), (6, 17239), (7, 17293), (9, 17308), (10, 17317), (16, 17434), (18, 17476), (20, 17521), (26, 17740), (Start: 28 @17794 has 335 MA's), (38, 17827), (67, 17983), (68, 17989), (71, 17998), (81, 18064), (93, 18148), (109, 18250), (115, 18292),

Gene: Eugenia_23 Start: 17821, Stop: 18339, Start Num: 28

Candidate Starts for Eugenia_23:

(6, 17266), (7, 17320), (9, 17335), (10, 17344), (16, 17461), (18, 17503), (20, 17548), (26, 17767), (Start: 28 @17821 has 335 MA's), (38, 17854), (67, 18010), (68, 18016), (71, 18025), (81, 18091), (93, 18175), (109, 18277), (115, 18319),

Gene: Evaa_21 Start: 17590, Stop: 18126, Start Num: 27

Candidate Starts for Evaa_21:

(23, 17407), (Start: 25 @17425 has 1 MA's), (26, 17539), (Start: 27 @17590 has 44 MA's), (40, 17641), (42, 17647), (45, 17656), (86, 17899), (112, 18091), (115, 18106), (117, 18115),

Gene: Fang_23 Start: 17822, Stop: 18340, Start Num: 28

Candidate Starts for Fang_23:

(26, 17768), (Start: 28 @17822 has 335 MA's), (38, 17855), (67, 18011), (68, 18017), (71, 18026), (81, 18092), (93, 18176), (109, 18278), (115, 18320),

Gene: Faze9_25 Start: 20029, Stop: 20589, Start Num: 27

Candidate Starts for Faze9_25:

(Start: 25 @19867 has 1 MA's), (Start: 27 @20029 has 44 MA's), (Start: 30 @20047 has 10 MA's), (31, 20050), (38, 20077), (42, 20089), (55, 20161), (62, 20218), (68, 20254), (73, 20305), (79, 20338), (100, 20485), (114, 20563),

Gene: FluffyNinja_23 Start: 17814, Stop: 18332, Start Num: 28

Candidate Starts for FluffyNinja_23:

(6, 17259), (7, 17313), (9, 17328), (10, 17337), (16, 17454), (18, 17496), (20, 17541), (26, 17760), (Start: 28 @17814 has 335 MA's), (38, 17847), (67, 18003), (68, 18009), (71, 18018), (81, 18084), (93, 18168), (109, 18270), (115, 18312),

Gene: Fortunato_21 Start: 18261, Stop: 18959, Start Num: 24

Candidate Starts for Fortunato_21:

(Start: 24 @18261 has 1 MA's), (Start: 28 @18429 has 335 MA's), (35, 18459), (51, 18528), (68, 18633), (72, 18663), (74, 18681), (82, 18714), (84, 18720), (86, 18732), (88, 18747), (94, 18801), (97, 18831), (106, 18879),

Gene: Fozzie_22 Start: 17817, Stop: 18335, Start Num: 28

Candidate Starts for Fozzie_22:

(26, 17763), (Start: 28 @17817 has 335 MA's), (38, 17850), (67, 18006), (68, 18012), (71, 18021), (81, 18087), (93, 18171), (109, 18273), (115, 18315),

Gene: Frankicide_23 Start: 17808, Stop: 18326, Start Num: 28

Candidate Starts for Frankicide_23:

(26, 17754), (Start: 28 @17808 has 335 MA's), (38, 17841), (67, 17997), (68, 18003), (71, 18012), (81, 18078), (93, 18162), (109, 18264), (115, 18306),

Gene: Frederick_21 Start: 18438, Stop: 18968, Start Num: 28

Candidate Starts for Frederick_21:

(Start: 24 @18270 has 1 MA's), (Start: 28 @18438 has 335 MA's), (35, 18468), (51, 18537), (68, 18642), (72, 18672), (74, 18690), (82, 18723), (84, 18729), (86, 18741), (88, 18756), (94, 18810), (97, 18840), (106, 18888),

Gene: FrenchFry_25 Start: 20032, Stop: 20592, Start Num: 27

Candidate Starts for FrenchFry_25:

(Start: 25 @19870 has 1 MA's), (Start: 27 @20032 has 44 MA's), (Start: 30 @20050 has 10 MA's), (31, 20053), (38, 20080), (42, 20092), (55, 20164), (62, 20221), (68, 20257), (73, 20308), (79, 20341), (100, 20488), (114, 20566),

Gene: Fresco_20 Start: 16345, Stop: 16893, Start Num: 28

Candidate Starts for Fresco_20:

(21, 16072), (23, 16159), (Start: 25 @16177 has 1 MA's), (26, 16291), (Start: 28 @16345 has 335 MA's), (31, 16363), (45, 16411), (81, 16636), (86, 16657), (88, 16672), (111, 16852), (113, 16861),

Gene: Freya_22 Start: 17503, Stop: 18021, Start Num: 28

Candidate Starts for Freya_22:

(26, 17449), (Start: 28 @17503 has 335 MA's), (38, 17536), (67, 17692), (68, 17698), (71, 17707), (81, 17773), (93, 17857), (109, 17959), (115, 18001),

Gene: FriarPreacher_23 Start: 17828, Stop: 18346, Start Num: 28

Candidate Starts for FriarPreacher_23:

(26, 17774), (Start: 28 @17828 has 335 MA's), (38, 17861), (67, 18017), (68, 18023), (71, 18032), (81, 18098), (93, 18182), (109, 18284), (115, 18326),

Gene: Fringe_23 Start: 17792, Stop: 18310, Start Num: 28

Candidate Starts for Fringe_23:

(6, 17237), (7, 17291), (9, 17306), (10, 17315), (16, 17432), (18, 17474), (20, 17519), (26, 17738), (Start: 28 @17792 has 335 MA's), (38, 17825), (67, 17981), (68, 17987), (71, 17996), (81, 18062), (93, 18146), (109, 18248), (115, 18290),

Gene: FugateOSU_22 Start: 17514, Stop: 18032, Start Num: 28

Candidate Starts for FugateOSU_22:

(26, 17460), (Start: 28 @17514 has 335 MA's), (38, 17547), (67, 17703), (68, 17709), (71, 17718), (81, 17784), (93, 17868), (109, 17970), (115, 18012),

Gene: Funsized_26 Start: 20899, Stop: 21408, Start Num: 28

Candidate Starts for Funsized_26:

(26, 20845), (Start: 28 @20899 has 335 MA's), (32, 20911), (41, 20941), (42, 20944), (53, 20995), (66, 21070), (68, 21082), (70, 21088), (89, 21199), (94, 21250), (98, 21286), (99, 21289), (111, 21370),

Gene: Gadget_25 Start: 18480, Stop: 19004, Start Num: 28

Candidate Starts for Gadget_25:

(Start: 28 @18480 has 335 MA's), (37, 18513), (43, 18531), (61, 18648), (81, 18771), (83, 18777), (85, 18786), (93, 18855), (104, 18912),

Gene: Gareth_22 Start: 17511, Stop: 18029, Start Num: 28

Candidate Starts for Gareth_22:

(26, 17457), (Start: 28 @17511 has 335 MA's), (38, 17544), (67, 17700), (68, 17706), (71, 17715), (81, 17781), (93, 17865), (109, 17967), (115, 18009),

Gene: GeneCoco_23 Start: 17813, Stop: 18331, Start Num: 28

Candidate Starts for GeneCoco_23:

(2, 17207), (6, 17258), (7, 17312), (9, 17327), (10, 17336), (16, 17453), (18, 17495), (20, 17540), (26, 17759), (Start: 28 @17813 has 335 MA's), (38, 17846), (67, 18002), (68, 18008), (71, 18017), (81, 18083), (93, 18167), (109, 18269), (115, 18311),

Gene: Gervas_24 Start: 18457, Stop: 18978, Start Num: 28

Candidate Starts for Gervas_24:

(Start: 28 @18457 has 335 MA's), (37, 18487), (43, 18505), (61, 18622), (81, 18745), (83, 18751), (85, 18760), (93, 18829), (104, 18886),

Gene: Giraffe_23 Start: 17516, Stop: 18034, Start Num: 28

Candidate Starts for Giraffe_23:

(26, 17462), (Start: 28 @17516 has 335 MA's), (38, 17549), (67, 17705), (68, 17711), (71, 17720), (81, 17786), (93, 17870), (109, 17972), (115, 18014),

Gene: Glass_25 Start: 20032, Stop: 20592, Start Num: 27

Candidate Starts for Glass_25:

(Start: 25 @19870 has 1 MA's), (Start: 27 @20032 has 44 MA's), (Start: 30 @20050 has 10 MA's), (31, 20053), (38, 20080), (42, 20092), (55, 20164), (62, 20221), (68, 20257), (73, 20308), (79, 20341), (100, 20488), (114, 20566),

Gene: GlenHope_25 Start: 18466, Stop: 18987, Start Num: 28

Candidate Starts for GlenHope_25:

(Start: 28 @18466 has 335 MA's), (37, 18496), (43, 18514), (61, 18631), (81, 18754), (83, 18760), (85, 18769), (93, 18838), (104, 18895),

Gene: GodPhather_18 Start: 17544, Stop: 18065, Start Num: 30

Candidate Starts for GodPhather_18:

(26, 17490), (Start: 30 @17544 has 10 MA's), (35, 17565), (45, 17595), (54, 17652), (55, 17658), (60, 17697), (68, 17730), (74, 17784), (75, 17790), (77, 17805), (86, 17844), (89, 17862), (107, 17991), (108, 18000), (110, 18009), (115, 18045),

Gene: Godines_25 Start: 19925, Stop: 20485, Start Num: 27

Candidate Starts for Godines_25:

(Start: 25 @19763 has 1 MA's), (Start: 27 @19925 has 44 MA's), (Start: 30 @19943 has 10 MA's), (31, 19946), (38, 19973), (42, 19985), (55, 20057), (62, 20114), (68, 20150), (73, 20201), (79, 20234), (100, 20381), (114, 20459),

Gene: Gophee_23 Start: 17794, Stop: 18312, Start Num: 28

Candidate Starts for Gophee_23:

(6, 17239), (7, 17293), (9, 17308), (10, 17317), (16, 17434), (18, 17476), (20, 17521), (26, 17740), (Start: 28 @17794 has 335 MA's), (38, 17827), (67, 17983), (68, 17989), (71, 17998), (81, 18064), (93, 18148), (109, 18250), (115, 18292),

Gene: Grand2040_22 Start: 17531, Stop: 18049, Start Num: 28

Candidate Starts for Grand2040_22:

(26, 17477), (Start: 28 @17531 has 335 MA's), (38, 17564), (67, 17720), (68, 17726), (71, 17735), (81, 17801), (93, 17885), (109, 17987), (115, 18029),

Gene: Gwilliam_23 Start: 17804, Stop: 18322, Start Num: 28

Candidate Starts for Gwilliam_23:

(26, 17750), (Start: 28 @17804 has 335 MA's), (38, 17837), (67, 17993), (68, 17999), (71, 18008), (81, 18074), (93, 18158), (109, 18260), (115, 18302),

Gene: Gyarad_0023 Start: 17806, Stop: 18324, Start Num: 28

Candidate Starts for Gyarad_0023:

(26, 17752), (Start: 28 @17806 has 335 MA's), (38, 17839), (67, 17995), (68, 18001), (71, 18010), (81, 18076), (93, 18160), (109, 18262), (115, 18304),

Gene: HSavage_23 Start: 17814, Stop: 18332, Start Num: 28

Candidate Starts for HSavage_23:

(26, 17760), (Start: 28 @17814 has 335 MA's), (38, 17847), (67, 18003), (68, 18009), (71, 18018), (81, 18084), (93, 18168), (109, 18270), (115, 18312),

Gene: Haimas_23 Start: 17809, Stop: 18327, Start Num: 28

Candidate Starts for Haimas_23:

(6, 17254), (7, 17308), (9, 17323), (10, 17332), (16, 17449), (18, 17491), (20, 17536), (26, 17755), (Start: 28 @17809 has 335 MA's), (38, 17842), (67, 17998), (68, 18004), (71, 18013), (81, 18079), (93, 18163), (109, 18265), (115, 18307),

Gene: Haleema_22 Start: 17531, Stop: 18049, Start Num: 28

Candidate Starts for Haleema_22:

(6, 16976), (7, 17030), (9, 17045), (10, 17054), (16, 17171), (18, 17213), (20, 17258), (26, 17477), (Start: 28 @17531 has 335 MA's), (38, 17564), (67, 17720), (68, 17726), (71, 17735), (81, 17801), (93, 17885), (109, 17987), (115, 18029),

Gene: Halfpint_23 Start: 18301, Stop: 18822, Start Num: 28

Candidate Starts for Halfpint_23:

(Start: 28 @18301 has 335 MA's), (37, 18331), (43, 18349), (47, 18361), (61, 18466), (81, 18589), (83, 18595), (85, 18604), (93, 18673), (104, 18730),

Gene: Hamish_23 Start: 17801, Stop: 18319, Start Num: 28

Candidate Starts for Hamish_23:

(6, 17246), (7, 17300), (9, 17315), (10, 17324), (16, 17441), (18, 17483), (20, 17528), (26, 17747), (Start: 28 @17801 has 335 MA's), (38, 17834), (67, 17990), (68, 17996), (71, 18005), (81, 18071), (93, 18155), (109, 18257), (115, 18299),

Gene: Hangman_21 Start: 18436, Stop: 18966, Start Num: 28

Candidate Starts for Hangman_21:

(Start: 24 @18268 has 1 MA's), (Start: 28 @18436 has 335 MA's), (35, 18466), (51, 18535), (68, 18640), (72, 18670), (74, 18688), (82, 18721), (84, 18727), (86, 18739), (88, 18754), (94, 18808), (106, 18886),

Gene: Hartsy_22 Start: 17804, Stop: 18322, Start Num: 28

Candidate Starts for Hartsy_22:

(2, 17198), (6, 17249), (7, 17303), (9, 17318), (10, 17327), (16, 17444), (18, 17486), (20, 17531), (26, 17750), (Start: 28 @17804 has 335 MA's), (38, 17837), (67, 17993), (68, 17999), (71, 18008), (81, 18074), (93, 18158), (109, 18260), (115, 18302),

Gene: Harvey_23 Start: 17830, Stop: 18348, Start Num: 28

Candidate Starts for Harvey_23:

(26, 17776), (Start: 28 @17830 has 335 MA's), (38, 17863), (67, 18019), (68, 18025), (71, 18034), (81, 18100), (93, 18184), (109, 18286), (115, 18328),

Gene: HarveySr_24 Start: 18453, Stop: 18977, Start Num: 28

Candidate Starts for HarveySr_24:

(Start: 28 @18453 has 335 MA's), (37, 18486), (43, 18504), (47, 18516), (61, 18621), (81, 18744), (83, 18750), (85, 18759), (93, 18828), (104, 18885),

Gene: Hashim76_27 Start: 18297, Stop: 18815, Start Num: 28

Candidate Starts for Hashim76_27:

(Start: 25 @18129 has 1 MA's), (Start: 28 @18297 has 335 MA's), (41, 18339), (53, 18402), (55, 18411), (71, 18498), (82, 18570), (85, 18582), (88, 18603),

Gene: Heath_20 Start: 18067, Stop: 18597, Start Num: 28

Candidate Starts for Heath_20:

(Start: 24 @17899 has 1 MA's), (Start: 28 @18067 has 335 MA's), (35, 18097), (51, 18166), (68, 18271), (72, 18301), (74, 18319), (82, 18352), (84, 18358), (86, 18370), (88, 18385), (94, 18439), (106, 18517),

Gene: Heathcliff_24 Start: 18438, Stop: 18959, Start Num: 28

Candidate Starts for Heathcliff_24:

(Start: 28 @18438 has 335 MA's), (37, 18468), (43, 18486), (47, 18498), (61, 18603), (81, 18726), (83, 18732), (85, 18741), (93, 18810), (104, 18867),

Gene: Hedgerow_25 Start: 20014, Stop: 20574, Start Num: 27

Candidate Starts for Hedgerow_25:

(Start: 25 @19852 has 1 MA's), (Start: 27 @20014 has 44 MA's), (Start: 30 @20032 has 10 MA's), (31, 20035), (38, 20062), (42, 20074), (55, 20146), (62, 20203), (68, 20239), (73, 20290), (79, 20323), (100, 20470), (114, 20548),

Gene: Held_23 Start: 17515, Stop: 18033, Start Num: 28

Candidate Starts for Held_23:

(26, 17461), (Start: 28 @17515 has 335 MA's), (38, 17548), (67, 17704), (68, 17710), (71, 17719), (81, 17785), (93, 17869), (109, 17971), (115, 18013),

Gene: HenryJackson_22 Start: 17531, Stop: 18049, Start Num: 28

Candidate Starts for HenryJackson_22:

(26, 17477), (Start: 28 @17531 has 335 MA's), (38, 17564), (67, 17720), (68, 17726), (71, 17735), (81, 17801), (93, 17885), (109, 17987), (115, 18029),

Gene: Hertubise_23 Start: 17823, Stop: 18341, Start Num: 28

Candidate Starts for Hertubise_23:

(6, 17268), (7, 17322), (9, 17337), (10, 17346), (16, 17463), (18, 17505), (20, 17550), (26, 17769), (Start: 28 @17823 has 335 MA's), (38, 17856), (67, 18012), (68, 18018), (71, 18027), (81, 18093), (93, 18177), (109, 18279), (115, 18321),

Gene: Hetaeria_23 Start: 17824, Stop: 18342, Start Num: 28

Candidate Starts for Hetaeria_23:

(26, 17770), (Start: 28 @17824 has 335 MA's), (38, 17857), (67, 18013), (68, 18019), (71, 18028), (81, 18094), (93, 18178), (109, 18280), (115, 18322),

Gene: HighStump_22 Start: 17514, Stop: 18032, Start Num: 28

Candidate Starts for HighStump_22:

(26, 17460), (Start: 28 @17514 has 335 MA's), (38, 17547), (67, 17703), (68, 17709), (71, 17718), (81, 17784), (93, 17868), (109, 17970), (115, 18012),

Gene: Hocus_22 Start: 17517, Stop: 18035, Start Num: 28

Candidate Starts for Hocus_22:

(26, 17463), (Start: 28 @17517 has 335 MA's), (38, 17550), (67, 17706), (68, 17712), (71, 17721), (81, 17787), (93, 17871), (109, 17973), (115, 18015),

Gene: Holeinone_25 Start: 19910, Stop: 20470, Start Num: 27

Candidate Starts for Holeinone_25:

(Start: 25 @19748 has 1 MA's), (Start: 27 @19910 has 44 MA's), (Start: 30 @19928 has 10 MA's), (31, 19931), (38, 19958), (42, 19970), (55, 20042), (62, 20099), (68, 20135), (73, 20186), (79, 20219), (100, 20366), (114, 20444),

Gene: Horchata_23 Start: 17793, Stop: 18311, Start Num: 28

Candidate Starts for Horchata_23:

(26, 17739), (Start: 28 @17793 has 335 MA's), (38, 17826), (67, 17982), (68, 17988), (71, 17997), (81, 18063), (93, 18147), (109, 18249), (115, 18291),

Gene: Hosp_017 Start: 15179, Stop: 15727, Start Num: 27

Candidate Starts for Hosp_017:

(Start: 25 @15014 has 1 MA's), (26, 15128), (Start: 27 @15179 has 44 MA's), (35, 15212), (41, 15230), (45, 15242), (47, 15248), (68, 15395), (71, 15404), (81, 15473), (82, 15476), (86, 15494), (88, 15509), (94, 15575), (115, 15707),

Gene: Hydro_21 Start: 18435, Stop: 18965, Start Num: 28

Candidate Starts for Hydro_21:

(Start: 28 @18435 has 335 MA's), (35, 18465), (51, 18534), (68, 18639), (72, 18669), (74, 18687), (82, 18720), (84, 18726), (86, 18738), (94, 18807), (106, 18885),

Gene: ImtiyazSitla_22 Start: 17358, Stop: 17876, Start Num: 28

Candidate Starts for ImtiyazSitla_22:

(26, 17304), (Start: 28 @17358 has 335 MA's), (38, 17391), (67, 17547), (68, 17553), (71, 17562), (81, 17628), (93, 17712), (109, 17814), (115, 17856),

Gene: Imvubu_17 Start: 15573, Stop: 16082, Start Num: 28

Candidate Starts for Imvubu_17:

(20, 15297), (26, 15519), (Start: 28 @15573 has 335 MA's), (32, 15585), (41, 15615), (42, 15618), (52, 15660), (55, 15678), (66, 15744), (68, 15756), (82, 15837), (86, 15855), (89, 15873), (94, 15924), (98, 15960), (108, 16017), (111, 16044), (115, 16062),

Gene: Inchworm_23 Start: 17800, Stop: 18318, Start Num: 28

Candidate Starts for Inchworm_23:

(6, 17245), (7, 17299), (9, 17314), (10, 17323), (16, 17440), (18, 17482), (20, 17527), (26, 17746), (Start: 28 @17800 has 335 MA's), (38, 17833), (67, 17989), (68, 17995), (71, 18004), (81, 18070), (93, 18154), (109, 18256), (115, 18298),

Gene: Indlovu_21 Start: 18170, Stop: 18697, Start Num: 28

Candidate Starts for Indlovu_21:

(26, 18116), (Start: 28 @18170 has 335 MA's), (67, 18359), (70, 18371), (91, 18500), (95, 18545), (98, 18575), (111, 18659), (115, 18677),

Gene: Inverness_23 Start: 17814, Stop: 18332, Start Num: 28

Candidate Starts for Inverness_23:

(26, 17760), (Start: 28 @17814 has 335 MA's), (38, 17847), (67, 18003), (68, 18009), (71, 18018), (81, 18084), (93, 18168), (109, 18270), (115, 18312),

Gene: Iridoclysis_23 Start: 17788, Stop: 18306, Start Num: 28

Candidate Starts for Iridoclysis_23:

(6, 17233), (7, 17287), (9, 17302), (10, 17311), (16, 17428), (18, 17470), (20, 17515), (26, 17734), (Start: 28 @17788 has 335 MA's), (38, 17821), (67, 17977), (68, 17983), (71, 17992), (81, 18058), (93, 18142), (109, 18244), (115, 18286),

Gene: IsaacEli_23 Start: 17818, Stop: 18336, Start Num: 28

Candidate Starts for IsaacEli_23:

(6, 17263), (7, 17317), (9, 17332), (10, 17341), (16, 17458), (18, 17500), (20, 17545), (26, 17764), (Start: 28 @17818 has 335 MA's), (38, 17851), (67, 18007), (68, 18013), (71, 18022), (81, 18088), (93, 18172), (109, 18274), (115, 18316),

Gene: ItsyBitsy1_25 Start: 19903, Stop: 20463, Start Num: 27

Candidate Starts for ItsyBitsy1_25:

(Start: 25 @19741 has 1 MA's), (Start: 27 @19903 has 44 MA's), (Start: 30 @19921 has 10 MA's), (31, 19924), (38, 19951), (42, 19963), (55, 20035), (62, 20092), (68, 20128), (73, 20179), (79, 20212), (100, 20359), (114, 20437),

Gene: JAMaL_21 Start: 18616, Stop: 19146, Start Num: 28

Candidate Starts for JAMaL_21:

(Start: 28 @18616 has 335 MA's), (35, 18646), (41, 18664), (51, 18715), (67, 18814), (68, 18820), (74, 18868), (81, 18898), (82, 18901), (84, 18907), (86, 18919), (88, 18934), (94, 18988), (96, 19006), (106, 19066),

Gene: JDog_23 Start: 17524, Stop: 18042, Start Num: 28

Candidate Starts for JDog_23:

(26, 17470), (Start: 28 @17524 has 335 MA's), (38, 17557), (67, 17713), (68, 17719), (71, 17728), (81, 17794), (93, 17878), (109, 17980), (115, 18022),

Gene: JacAttac_23 Start: 17800, Stop: 18318, Start Num: 28

Candidate Starts for JacAttac_23:

(6, 17245), (7, 17299), (9, 17314), (10, 17323), (16, 17440), (18, 17482), (20, 17527), (26, 17746), (Start: 28 @17800 has 335 MA's), (38, 17833), (67, 17989), (68, 17995), (71, 18004), (81, 18070), (93, 18154), (109, 18256), (115, 18298),

Gene: Jackstina_22 Start: 18402, Stop: 18923, Start Num: 28

Candidate Starts for Jackstina_22:

(Start: 28 @18402 has 335 MA's), (37, 18432), (43, 18450), (47, 18462), (61, 18567), (81, 18690), (83, 18696), (85, 18705), (93, 18774), (104, 18831),

Gene: JaguarMi_21 Start: 17897, Stop: 18427, Start Num: 28

Candidate Starts for JaguarMi_21:

(8, 17408), (Start: 24 @17729 has 1 MA's), (Start: 28 @17897 has 335 MA's), (35, 17927), (51, 17996), (72, 18131), (74, 18149), (82, 18182), (84, 18188), (86, 18200), (88, 18215), (94, 18269), (106, 18347),

Gene: JakeO_22 Start: 17524, Stop: 18042, Start Num: 28

Candidate Starts for JakeO_22:

(26, 17470), (Start: 28 @17524 has 335 MA's), (38, 17557), (67, 17713), (68, 17719), (71, 17728), (81, 17794), (93, 17878), (109, 17980), (115, 18022),

Gene: JangoPhett_23 Start: 17798, Stop: 18316, Start Num: 28

Candidate Starts for JangoPhett_23:

(6, 17243), (7, 17297), (9, 17312), (10, 17321), (16, 17438), (18, 17480), (20, 17525), (26, 17744), (Start: 28 @17798 has 335 MA's), (38, 17831), (67, 17987), (68, 17993), (71, 18002), (81, 18068), (93, 18152), (109, 18254), (115, 18296),

Gene: Jeon_17 Start: 17286, Stop: 17807, Start Num: 30

Candidate Starts for Jeon_17:

(26, 17232), (Start: 30 @17286 has 10 MA's), (35, 17307), (45, 17337), (54, 17394), (55, 17400), (60, 17439), (68, 17472), (74, 17526), (75, 17532), (77, 17547), (86, 17586), (89, 17604), (107, 17733), (108, 17742), (110, 17751), (115, 17787),

Gene: Jillium_22 Start: 17524, Stop: 18042, Start Num: 28

Candidate Starts for Jillium_22:

(6, 16969), (7, 17023), (9, 17038), (10, 17047), (16, 17164), (18, 17206), (20, 17251), (26, 17470), (Start: 28 @17524 has 335 MA's), (38, 17557), (67, 17713), (68, 17719), (71, 17728), (81, 17794), (93, 17878), (109, 17980), (115, 18022),

Gene: Jiminy_22 Start: 17362, Stop: 17880, Start Num: 28

Candidate Starts for Jiminy_22:

(26, 17308), (Start: 28 @17362 has 335 MA's), (38, 17395), (67, 17551), (68, 17557), (71, 17566), (81, 17632), (93, 17716), (109, 17818), (115, 17860),

Gene: Jiraiya_23 Start: 17522, Stop: 18040, Start Num: 28

Candidate Starts for Jiraiya_23:

(26, 17468), (Start: 28 @17522 has 335 MA's), (38, 17555), (67, 17711), (68, 17717), (71, 17726), (81, 17792), (93, 17876), (109, 17978), (115, 18020),

Gene: Jolie1_019 Start: 16953, Stop: 17501, Start Num: 27

Candidate Starts for Jolie1_019:

(26, 16902), (Start: 27 @16953 has 44 MA's), (35, 16986), (41, 17004), (45, 17016), (47, 17022), (68, 17169), (71, 17178), (81, 17247), (82, 17250), (86, 17268), (88, 17283), (94, 17349), (95, 17355), (115, 17481),

Gene: KLucky39_23 Start: 17806, Stop: 18324, Start Num: 28

Candidate Starts for KLucky39_23:

(26, 17752), (Start: 28 @17806 has 335 MA's), (38, 17839), (67, 17995), (68, 18001), (71, 18010), (81, 18076), (93, 18160), (109, 18262), (115, 18304),

Gene: Kahve_22 Start: 17528, Stop: 18046, Start Num: 28

Candidate Starts for Kahve_22:

(26, 17474), (Start: 28 @17528 has 335 MA's), (38, 17561), (67, 17717), (68, 17723), (71, 17732), (81, 17798), (93, 17882), (109, 17984), (115, 18026),

Gene: Kailash_23 Start: 17816, Stop: 18334, Start Num: 28

Candidate Starts for Kailash_23:

(2, 17210), (6, 17261), (7, 17315), (9, 17330), (10, 17339), (16, 17456), (18, 17498), (20, 17543), (26, 17762), (Start: 28 @17816 has 335 MA's), (38, 17849), (67, 18005), (68, 18011), (71, 18020), (81, 18086), (93, 18170), (109, 18272), (115, 18314),

Gene: Kaleb_25 Start: 20029, Stop: 20589, Start Num: 27

Candidate Starts for Kaleb_25:

(Start: 25 @19867 has 1 MA's), (Start: 27 @20029 has 44 MA's), (Start: 30 @20047 has 10 MA's), (31, 20050), (38, 20077), (42, 20089), (55, 20161), (62, 20218), (68, 20254), (73, 20305), (79, 20338), (100, 20485), (114, 20563),

Gene: Kamiyu_24 Start: 18445, Stop: 18966, Start Num: 28

Candidate Starts for Kamiyu_24:

(Start: 28 @18445 has 335 MA's), (37, 18475), (43, 18493), (47, 18505), (61, 18610), (81, 18733), (83, 18739), (85, 18748), (93, 18817), (104, 18874),

Gene: Katniss_23 Start: 17826, Stop: 18344, Start Num: 28

Candidate Starts for Katniss_23:

(6, 17271), (7, 17325), (9, 17340), (10, 17349), (16, 17466), (18, 17508), (20, 17553), (26, 17772), (Start: 28 @17826 has 335 MA's), (38, 17859), (67, 18015), (68, 18021), (71, 18030), (81, 18096), (93, 18180), (109, 18282), (115, 18324),

Gene: KayaCho_19 Start: 16963, Stop: 17511, Start Num: 27

Candidate Starts for KayaCho_19:

(Start: 25 @16798 has 1 MA's), (26, 16912), (Start: 27 @16963 has 44 MA's), (35, 16996), (37, 17002), (55, 17086), (68, 17179), (71, 17188), (81, 17257), (84, 17266), (86, 17278), (88, 17293), (94, 17359), (97, 17389), (108, 17446), (115, 17491),

Gene: Keitherie_23 Start: 17829, Stop: 18347, Start Num: 28

Candidate Starts for Keitherie_23:

(6, 17274), (7, 17328), (9, 17343), (10, 17352), (16, 17469), (18, 17511), (20, 17556), (26, 17775), (Start: 28 @17829 has 335 MA's), (38, 17862), (67, 18018), (68, 18024), (71, 18033), (81, 18099), (93, 18183), (109, 18285), (115, 18327),

Gene: Kheth_25 Start: 19915, Stop: 20475, Start Num: 27

Candidate Starts for Kheth_25:

(Start: 25 @19753 has 1 MA's), (Start: 27 @19915 has 44 MA's), (Start: 30 @19933 has 10 MA's), (31, 19936), (38, 19963), (42, 19975), (55, 20047), (62, 20104), (68, 20140), (73, 20191), (79, 20224), (100, 20371), (114, 20449),

Gene: Kikipoo_23 Start: 17818, Stop: 18336, Start Num: 28

Candidate Starts for Kikipoo_23:

(6, 17263), (7, 17317), (9, 17332), (10, 17341), (16, 17458), (18, 17500), (20, 17545), (26, 17764), (Start: 28 @17818 has 335 MA's), (38, 17851), (67, 18007), (68, 18013), (71, 18022), (81, 18088), (93, 18172), (109, 18274), (115, 18316),

Gene: Kimbrough_23 Start: 17520, Stop: 18038, Start Num: 28

Candidate Starts for Kimbrough_23:

(6, 16965), (7, 17019), (9, 17034), (10, 17043), (16, 17160), (18, 17202), (20, 17247), (26, 17466), (Start: 28 @17520 has 335 MA's), (38, 17553), (67, 17709), (68, 17715), (71, 17724), (81, 17790), (93, 17874), (109, 17976), (115, 18018),

Gene: KingVeVeVe_23 Start: 17797, Stop: 18315, Start Num: 28

Candidate Starts for KingVeVeVe_23:

(26, 17743), (Start: 28 @17797 has 335 MA's), (38, 17830), (67, 17986), (68, 17992), (71, 18001), (81, 18067), (93, 18151), (109, 18253), (115, 18295),

Gene: KlimbOn_23 Start: 17806, Stop: 18324, Start Num: 28

Candidate Starts for KlimbOn_23:

(26, 17752), (Start: 28 @17806 has 335 MA's), (38, 17839), (67, 17995), (68, 18001), (71, 18010), (81, 18076), (93, 18160), (109, 18262), (115, 18304),

Gene: Kloppinator_23 Start: 17826, Stop: 18344, Start Num: 28

Candidate Starts for Kloppinator_23:

(6, 17271), (7, 17325), (9, 17340), (10, 17349), (16, 17466), (18, 17508), (20, 17553), (26, 17772), (Start: 28 @17826 has 335 MA's), (38, 17859), (67, 18015), (68, 18021), (71, 18030), (81, 18096), (93, 18180), (109, 18282), (115, 18324),

Gene: Klocker_25 Start: 20941, Stop: 21450, Start Num: 28

Candidate Starts for Klocker_25:

(26, 20887), (Start: 28 @20941 has 335 MA's), (32, 20953), (35, 20965), (41, 20983), (42, 20986), (46, 20989), (48, 21013), (66, 21112), (68, 21124), (70, 21130), (86, 21223), (89, 21241), (94, 21292), (98, 21328), (99, 21331), (108, 21385), (111, 21412),

Gene: Kronus_23 Start: 19059, Stop: 19580, Start Num: 28

Candidate Starts for Kronus_23:

(Start: 28 @19059 has 335 MA's), (37, 19089), (43, 19107), (47, 19119), (61, 19224), (81, 19347), (83, 19353), (85, 19362), (93, 19431), (104, 19488),

Gene: Kwadwo_22 Start: 17510, Stop: 18028, Start Num: 28

Candidate Starts for Kwadwo_22:

(6, 16955), (7, 17009), (9, 17024), (10, 17033), (16, 17150), (18, 17192), (20, 17237), (26, 17456), (Start: 28 @17510 has 335 MA's), (38, 17543), (67, 17699), (68, 17705), (71, 17714), (81, 17780), (93,

17864), (109, 17966), (115, 18008),

Gene: Kwksand96_22 Start: 17372, Stop: 17890, Start Num: 28

Candidate Starts for Kwksand96_22:

(2, 16766), (6, 16817), (7, 16871), (9, 16886), (10, 16895), (16, 17012), (18, 17054), (20, 17099), (26, 17318), (Start: 28 @17372 has 335 MA's), (38, 17405), (67, 17561), (68, 17567), (71, 17576), (81, 17642), (93, 17726), (109, 17828), (115, 17870),

Gene: Labeouficaum_22 Start: 17368, Stop: 17886, Start Num: 28

Candidate Starts for Labeouficaum_22:

(6, 16813), (7, 16867), (9, 16882), (10, 16891), (16, 17008), (18, 17050), (20, 17095), (26, 17314), (Start: 28 @17368 has 335 MA's), (38, 17401), (67, 17557), (68, 17563), (71, 17572), (81, 17638), (93, 17722), (109, 17824), (115, 17866),

Gene: Lars_25 Start: 20032, Stop: 20592, Start Num: 27

Candidate Starts for Lars_25:

(Start: 25 @19870 has 1 MA's), (Start: 27 @20032 has 44 MA's), (Start: 30 @20050 has 10 MA's), (31, 20053), (38, 20080), (42, 20092), (55, 20164), (62, 20221), (68, 20257), (73, 20308), (79, 20341), (100, 20488), (114, 20566),

Gene: LasagnaCat_23 Start: 17812, Stop: 18330, Start Num: 28

Candidate Starts for LasagnaCat_23:

(6, 17257), (7, 17311), (9, 17326), (10, 17335), (16, 17452), (18, 17494), (20, 17539), (26, 17758), (Start: 28 @17812 has 335 MA's), (38, 17845), (67, 18001), (68, 18007), (71, 18016), (81, 18082), (93, 18166), (109, 18268), (115, 18310),

Gene: Lasso_23 Start: 17785, Stop: 18303, Start Num: 28

Candidate Starts for Lasso_23:

(6, 17230), (7, 17284), (9, 17299), (10, 17308), (16, 17425), (18, 17467), (20, 17512), (26, 17731), (Start: 28 @17785 has 335 MA's), (38, 17818), (67, 17974), (68, 17980), (71, 17989), (81, 18055), (93, 18139), (109, 18241), (115, 18283),

Gene: Laurie_25 Start: 19906, Stop: 20466, Start Num: 27

Candidate Starts for Laurie_25:

(Start: 27 @19906 has 44 MA's), (Start: 30 @19924 has 10 MA's), (38, 19954), (42, 19966), (55, 20038), (62, 20095), (68, 20131), (73, 20182), (79, 20215), (100, 20362), (114, 20440),

Gene: LeeLot_23 Start: 17810, Stop: 18328, Start Num: 28

Candidate Starts for LeeLot_23:

(6, 17255), (7, 17309), (9, 17324), (10, 17333), (16, 17450), (18, 17492), (20, 17537), (26, 17756), (Start: 28 @17810 has 335 MA's), (38, 17843), (67, 17999), (68, 18005), (71, 18014), (81, 18080), (93, 18164), (109, 18266), (115, 18308),

Gene: Lego3393_23 Start: 17822, Stop: 18340, Start Num: 28

Candidate Starts for Lego3393_23:

(6, 17267), (7, 17321), (9, 17336), (10, 17345), (16, 17462), (18, 17504), (20, 17549), (26, 17768), (Start: 28 @17822 has 335 MA's), (38, 17855), (67, 18011), (68, 18017), (71, 18026), (81, 18092), (93, 18176), (109, 18278), (115, 18320),

Gene: Legolas_22 Start: 17526, Stop: 18044, Start Num: 28

Candidate Starts for Legolas_22:

(6, 16971), (7, 17025), (9, 17040), (10, 17049), (16, 17166), (18, 17208), (20, 17253), (26, 17472), (Start: 28 @17526 has 335 MA's), (38, 17559), (67, 17715), (68, 17721), (71, 17730), (81, 17796), (93,

17880), (109, 17982), (115, 18024),

Gene: LeiMonet_23 Start: 17517, Stop: 18035, Start Num: 28

Candidate Starts for LeiMonet_23:

(26, 17463), (Start: 28 @17517 has 335 MA's), (38, 17550), (67, 17706), (68, 17712), (71, 17721), (81, 17787), (93, 17871), (109, 17973), (115, 18015),

Gene: LemonSlice_23 Start: 17517, Stop: 18035, Start Num: 28

Candidate Starts for LemonSlice_23:

(6, 16962), (7, 17016), (9, 17031), (10, 17040), (16, 17157), (18, 17199), (20, 17244), (26, 17463), (Start: 28 @17517 has 335 MA's), (38, 17550), (67, 17706), (68, 17712), (71, 17721), (81, 17787), (93, 17871), (109, 17973), (115, 18015),

Gene: Lephleur_25 Start: 19912, Stop: 20472, Start Num: 27

Candidate Starts for Lephleur_25:

(Start: 25 @19750 has 1 MA's), (Start: 27 @19912 has 44 MA's), (Start: 30 @19930 has 10 MA's), (31, 19933), (38, 19960), (42, 19972), (55, 20044), (62, 20101), (68, 20137), (73, 20188), (79, 20221), (100, 20368), (114, 20446),

Gene: LestyG_24 Start: 18480, Stop: 19001, Start Num: 28

Candidate Starts for LestyG_24:

(Start: 28 @18480 has 335 MA's), (37, 18510), (61, 18645), (81, 18768), (83, 18774), (85, 18783), (93, 18852), (104, 18909),

Gene: Ligma_20 Start: 16345, Stop: 16893, Start Num: 28

Candidate Starts for Ligma_20:

(21, 16072), (23, 16159), (Start: 25 @16177 has 1 MA's), (26, 16291), (Start: 28 @16345 has 335 MA's), (31, 16363), (45, 16411), (81, 16636), (86, 16657), (88, 16672), (111, 16852), (113, 16861),

Gene: LilMcDreamy_20 Start: 18494, Stop: 18985, Start Num: 28

Candidate Starts for LilMcDreamy_20:

(26, 18440), (Start: 28 @18494 has 335 MA's), (42, 18530), (45, 18539), (55, 18581), (68, 18665), (81, 18743), (84, 18752), (86, 18764), (92, 18809), (117, 18974), (118, 18980),

Gene: LittleMunchkin_22 Start: 19184, Stop: 19726, Start Num: 28

Candidate Starts for LittleMunchkin_22:

(26, 19130), (Start: 28 @19184 has 335 MA's), (31, 19202), (34, 19217), (45, 19250), (86, 19496), (88, 19511), (111, 19688), (113, 19697),

Gene: LizLemon_25 Start: 20029, Stop: 20589, Start Num: 27

Candidate Starts for LizLemon_25:

(Start: 25 @19867 has 1 MA's), (Start: 27 @20029 has 44 MA's), (Start: 30 @20047 has 10 MA's), (31, 20050), (38, 20077), (42, 20089), (55, 20161), (62, 20218), (68, 20254), (73, 20305), (79, 20338), (100, 20485), (114, 20563),

Gene: Lolalove_21 Start: 18432, Stop: 18962, Start Num: 28

Candidate Starts for Lolalove_21:

(Start: 28 @18432 has 335 MA's), (35, 18462), (51, 18531), (68, 18636), (72, 18666), (74, 18684), (82, 18717), (84, 18723), (86, 18735), (94, 18804), (106, 18882),

Gene: Longacauda_22 Start: 17512, Stop: 18030, Start Num: 28

Candidate Starts for Longacauda_22:

(2, 16906), (6, 16957), (7, 17011), (9, 17026), (10, 17035), (16, 17152), (18, 17194), (20, 17239), (26, 17458), (Start: 28 @17512 has 335 MA's), (38, 17545), (67, 17701), (68, 17707), (71, 17716), (81, 17782), (93, 17866), (109, 17968), (115, 18010),

Gene: Lopsy_22 Start: 17368, Stop: 17886, Start Num: 28

Candidate Starts for Lopsy_22:

(26, 17314), (Start: 28 @17368 has 335 MA's), (38, 17401), (67, 17557), (68, 17563), (71, 17572), (81, 17638), (93, 17722), (109, 17824), (115, 17866),

Gene: LostAndPhound_22 Start: 17519, Stop: 18037, Start Num: 28

Candidate Starts for LostAndPhound_22:

(26, 17465), (Start: 28 @17519 has 335 MA's), (38, 17552), (67, 17708), (68, 17714), (71, 17723), (81, 17789), (93, 17873), (109, 17975), (115, 18017),

Gene: LuckyMarjie_22 Start: 17532, Stop: 18050, Start Num: 28

Candidate Starts for LuckyMarjie_22:

(6, 16977), (7, 17031), (9, 17046), (10, 17055), (16, 17172), (18, 17214), (20, 17259), (26, 17478), (Start: 28 @17532 has 335 MA's), (38, 17565), (67, 17721), (68, 17727), (71, 17736), (81, 17802), (93, 17886), (109, 17988), (115, 18030),

Gene: Lulumae_22 Start: 17510, Stop: 18028, Start Num: 28

Candidate Starts for Lulumae_22:

(6, 16955), (7, 17009), (9, 17024), (10, 17033), (16, 17150), (18, 17192), (20, 17237), (26, 17456), (Start: 28 @17510 has 335 MA's), (38, 17543), (67, 17699), (68, 17705), (71, 17714), (81, 17780), (93, 17864), (109, 17966), (115, 18008),

Gene: Lulwa_23 Start: 17797, Stop: 18315, Start Num: 28

Candidate Starts for Lulwa_23:

(6, 17242), (7, 17296), (9, 17311), (10, 17320), (16, 17437), (18, 17479), (20, 17524), (26, 17743), (Start: 28 @17797 has 335 MA's), (38, 17830), (67, 17986), (68, 17992), (71, 18001), (81, 18067), (93, 18151), (109, 18253), (115, 18295),

Gene: Lumine_22 Start: 17506, Stop: 18024, Start Num: 28

Candidate Starts for Lumine_22:

(6, 16951), (7, 17005), (9, 17020), (10, 17029), (16, 17146), (18, 17188), (20, 17233), (26, 17452), (Start: 28 @17506 has 335 MA's), (38, 17539), (67, 17695), (68, 17701), (71, 17710), (81, 17776), (93, 17860), (109, 17962), (115, 18004),

Gene: MRabcd_22 Start: 17511, Stop: 18029, Start Num: 28

Candidate Starts for MRabcd_22:

(6, 16956), (7, 17010), (9, 17025), (10, 17034), (16, 17151), (18, 17193), (20, 17238), (26, 17457), (Start: 28 @17511 has 335 MA's), (38, 17544), (67, 17700), (68, 17706), (71, 17715), (81, 17781), (93, 17865), (109, 17967), (115, 18009),

Gene: Mag7_22 Start: 17366, Stop: 17884, Start Num: 28

Candidate Starts for Mag7_22:

(2, 16760), (6, 16811), (7, 16865), (9, 16880), (10, 16889), (16, 17006), (18, 17048), (20, 17093), (26, 17312), (Start: 28 @17366 has 335 MA's), (38, 17399), (67, 17555), (68, 17561), (71, 17570), (81, 17636), (93, 17720), (109, 17822), (115, 17864),

Gene: Magic8_23 Start: 17804, Stop: 18322, Start Num: 28

Candidate Starts for Magic8_23:

(2, 17198), (6, 17249), (7, 17303), (9, 17318), (10, 17327), (16, 17444), (18, 17486), (20, 17531), (26, 17750), (Start: 28 @17804 has 335 MA's), (38, 17837), (67, 17993), (68, 17999), (71, 18008), (81, 18074), (93, 18158), (109, 18260), (115, 18302),

Gene: Magpie_20 Start: 18255, Stop: 18785, Start Num: 28

Candidate Starts for Magpie_20:

(Start: 24 @18087 has 1 MA's), (Start: 28 @18255 has 335 MA's), (35, 18285), (51, 18354), (68, 18459), (72, 18489), (74, 18507), (82, 18540), (84, 18546), (86, 18558), (88, 18573), (94, 18627), (106, 18705),

Gene: MakoManhole_22 Start: 17734, Stop: 18273, Start Num: 27

Candidate Starts for MakoManhole_22:

(26, 17683), (Start: 27 @17734 has 44 MA's), (45, 17800), (71, 17956), (78, 18016), (81, 18025), (86, 18046), (97, 18145), (101, 18166), (111, 18235), (113, 18244),

Gene: Mana_22 Start: 17513, Stop: 18031, Start Num: 28

Candidate Starts for Mana_22:

(26, 17459), (Start: 28 @17513 has 335 MA's), (38, 17546), (67, 17702), (68, 17708), (71, 17717), (81, 17783), (93, 17867), (109, 17969), (115, 18011),

Gene: Manad_22 Start: 17363, Stop: 17881, Start Num: 28

Candidate Starts for Manad_22:

(26, 17309), (Start: 28 @17363 has 335 MA's), (38, 17396), (67, 17552), (68, 17558), (71, 17567), (81, 17633), (93, 17717), (109, 17819), (115, 17861),

Gene: Mao1_19 Start: 15827, Stop: 16372, Start Num: 30

Candidate Starts for Mao1_19:

(22, 15641), (Start: 25 @15662 has 1 MA's), (26, 15773), (Start: 27 @15824 has 44 MA's), (Start: 30 @15827 has 10 MA's), (45, 15878), (49, 15908), (55, 15941), (57, 15968), (59, 15980), (64, 16010), (68, 16037), (78, 16121), (79, 16124), (86, 16151), (89, 16169), (115, 16352),

Gene: Mariokart_20 Start: 16235, Stop: 16783, Start Num: 27

Candidate Starts for Mariokart_20:

(23, 16052), (Start: 25 @16070 has 1 MA's), (26, 16184), (Start: 27 @16235 has 44 MA's), (45, 16301), (80, 16523), (86, 16547), (88, 16562), (97, 16646), (113, 16751),

Gene: Marley1013_24 Start: 19258, Stop: 19779, Start Num: 28

Candidate Starts for Marley1013_24:

(Start: 28 @19258 has 335 MA's), (37, 19288), (43, 19306), (47, 19318), (61, 19423), (81, 19546), (83, 19552), (85, 19561), (91, 19597), (93, 19630), (104, 19687),

Gene: Maru_22 Start: 17512, Stop: 18030, Start Num: 28

Candidate Starts for Maru_22:

(26, 17458), (Start: 28 @17512 has 335 MA's), (38, 17545), (67, 17701), (68, 17707), (71, 17716), (81, 17782), (93, 17866), (109, 17968), (115, 18010),

Gene: Mask_20 Start: 15828, Stop: 16373, Start Num: 30

Candidate Starts for Mask_20:

(22, 15642), (Start: 25 @15663 has 1 MA's), (26, 15774), (Start: 27 @15825 has 44 MA's), (Start: 30 @15828 has 10 MA's), (45, 15879), (49, 15909), (55, 15942), (57, 15969), (59, 15981), (64, 16011), (68, 16038), (78, 16122), (79, 16125), (86, 16152), (89, 16170), (115, 16353),

Gene: Maskar_22 Start: 17358, Stop: 17876, Start Num: 28

Candidate Starts for Maskar_22:

(26, 17304), (Start: 28 @17358 has 335 MA's), (38, 17391), (67, 17547), (68, 17553), (71, 17562), (81, 17628), (93, 17712), (109, 17814), (115, 17856),

Gene: MasterPo_25 Start: 19912, Stop: 20472, Start Num: 27

Candidate Starts for MasterPo_25:

(Start: 25 @19750 has 1 MA's), (Start: 27 @19912 has 44 MA's), (Start: 30 @19930 has 10 MA's), (31, 19933), (38, 19960), (42, 19972), (55, 20044), (62, 20101), (68, 20137), (73, 20188), (79, 20221), (100, 20368), (114, 20446),

Gene: Matalotodo_22 Start: 17805, Stop: 18323, Start Num: 28

Candidate Starts for Matalotodo_22:

(6, 17250), (7, 17304), (9, 17319), (10, 17328), (16, 17445), (18, 17487), (20, 17532), (26, 17751), (Start: 28 @17805 has 335 MA's), (38, 17838), (67, 17994), (68, 18000), (71, 18009), (81, 18075), (93, 18159), (109, 18261), (115, 18303),

Gene: Mcshane_22 Start: 17508, Stop: 18026, Start Num: 28

Candidate Starts for Mcshane_22:

(6, 16953), (7, 17007), (9, 17022), (10, 17031), (16, 17148), (18, 17190), (20, 17235), (26, 17454), (Start: 28 @17508 has 335 MA's), (38, 17541), (67, 17697), (68, 17703), (71, 17712), (81, 17778), (93, 17862), (109, 17964), (115, 18006),

Gene: Mecca_22 Start: 17505, Stop: 18023, Start Num: 28

Candidate Starts for Mecca_22:

(26, 17451), (Start: 28 @17505 has 335 MA's), (38, 17538), (67, 17694), (68, 17700), (71, 17709), (81, 17775), (93, 17859), (109, 17961), (115, 18003),

Gene: Megabear_17 Start: 17229, Stop: 17750, Start Num: 30

Candidate Starts for Megabear_17:

(26, 17175), (Start: 30 @17229 has 10 MA's), (45, 17280), (49, 17310), (54, 17337), (55, 17343), (68, 17415), (74, 17469), (75, 17475), (77, 17490), (86, 17529), (89, 17547), (107, 17676), (108, 17685), (110, 17694), (115, 17730),

Gene: Megamind20_23 Start: 17526, Stop: 18044, Start Num: 28

Candidate Starts for Megamind20_23:

(26, 17472), (Start: 28 @17526 has 335 MA's), (38, 17559), (67, 17715), (68, 17721), (71, 17730), (81, 17796), (93, 17880), (109, 17982), (115, 18024),

Gene: Megatron_23 Start: 17809, Stop: 18327, Start Num: 28

Candidate Starts for Megatron_23:

(6, 17254), (7, 17308), (9, 17323), (10, 17332), (16, 17449), (18, 17491), (20, 17536), (26, 17755), (Start: 28 @17809 has 335 MA's), (38, 17842), (67, 17998), (68, 18004), (71, 18013), (81, 18079), (93, 18163), (109, 18265), (115, 18307),

Gene: Melc17_23 Start: 17800, Stop: 18318, Start Num: 28

Candidate Starts for Melc17_23:

(2, 17194), (6, 17245), (7, 17299), (9, 17314), (10, 17323), (16, 17440), (18, 17482), (20, 17527), (26, 17746), (Start: 28 @17800 has 335 MA's), (38, 17833), (67, 17989), (68, 17995), (71, 18004), (81, 18070), (93, 18154), (109, 18256), (115, 18298),

Gene: MelsMeow_22 Start: 17366, Stop: 17884, Start Num: 28

Candidate Starts for MelsMeow_22:

(2, 16760), (6, 16811), (7, 16865), (9, 16880), (10, 16889), (16, 17006), (18, 17048), (20, 17093), (26, 17312), (Start: 28 @17366 has 335 MA's), (38, 17399), (67, 17555), (68, 17561), (71, 17570), (81, 17636), (93, 17720), (109, 17822), (115, 17864),

Gene: Mesh1_23 Start: 17817, Stop: 18335, Start Num: 28

Candidate Starts for Mesh1_23:

(6, 17262), (7, 17316), (9, 17331), (10, 17340), (16, 17457), (18, 17499), (20, 17544), (26, 17763), (Start: 28 @17817 has 335 MA's), (38, 17850), (67, 18006), (68, 18012), (71, 18021), (81, 18087), (93, 18171), (109, 18273), (115, 18315),

Gene: MichaelPhcott_22 Start: 17366, Stop: 17884, Start Num: 28

Candidate Starts for MichaelPhcott_22:

(2, 16760), (6, 16811), (7, 16865), (9, 16880), (10, 16889), (16, 17006), (18, 17048), (20, 17093), (26, 17312), (Start: 28 @17366 has 335 MA's), (38, 17399), (67, 17555), (68, 17561), (71, 17570), (81, 17636), (93, 17720), (109, 17822), (115, 17864),

Gene: Mikota_23 Start: 17793, Stop: 18311, Start Num: 28

Candidate Starts for Mikota_23:

(26, 17739), (Start: 28 @17793 has 335 MA's), (38, 17826), (67, 17982), (68, 17988), (71, 17997), (81, 18063), (93, 18147), (109, 18249), (115, 18291),

Gene: MiniBoss_23 Start: 17796, Stop: 18314, Start Num: 28

Candidate Starts for MiniBoss_23:

(26, 17742), (Start: 28 @17796 has 335 MA's), (38, 17829), (67, 17985), (68, 17991), (71, 18000), (81, 18066), (93, 18150), (109, 18252), (115, 18294),

Gene: MitKao_23 Start: 17514, Stop: 18032, Start Num: 28

Candidate Starts for MitKao_23:

(6, 16959), (7, 17013), (9, 17028), (10, 17037), (16, 17154), (18, 17196), (20, 17241), (26, 17460), (Start: 28 @17514 has 335 MA's), (38, 17547), (67, 17703), (68, 17709), (71, 17718), (81, 17784), (93, 17868), (109, 17970), (115, 18012),

Gene: Mithril_21 Start: 18436, Stop: 18966, Start Num: 28

Candidate Starts for Mithril_21:

(Start: 24 @18268 has 1 MA's), (Start: 28 @18436 has 335 MA's), (35, 18466), (51, 18535), (68, 18640), (72, 18670), (74, 18688), (82, 18721), (84, 18727), (86, 18739), (88, 18754), (94, 18808), (106, 18886),

Gene: MmasiCarm_24 Start: 18471, Stop: 18992, Start Num: 28

Candidate Starts for MmasiCarm_24:

(Start: 28 @18471 has 335 MA's), (37, 18501), (43, 18519), (47, 18531), (61, 18636), (81, 18759), (83, 18765), (85, 18774), (93, 18843), (104, 18900),

Gene: Morgushi_23 Start: 17519, Stop: 18037, Start Num: 28

Candidate Starts for Morgushi_23:

(26, 17465), (Start: 28 @17519 has 335 MA's), (38, 17552), (67, 17708), (68, 17714), (71, 17723), (81, 17789), (93, 17873), (109, 17975), (115, 18017),

Gene: Mortcellus_23 Start: 19114, Stop: 19635, Start Num: 28

Candidate Starts for Mortcellus_23:

(Start: 28 @19114 has 335 MA's), (37, 19144), (43, 19162), (47, 19174), (61, 19279), (81, 19402), (83, 19408), (85, 19417), (93, 19486), (104, 19543),

Gene: Morty_23 Start: 17818, Stop: 18336, Start Num: 28

Candidate Starts for Morty_23:

(6, 17263), (7, 17317), (9, 17332), (10, 17341), (16, 17458), (18, 17500), (20, 17545), (26, 17764), (Start: 28 @17818 has 335 MA's), (38, 17851), (67, 18007), (68, 18013), (71, 18022), (81, 18088), (93, 18172), (109, 18274), (115, 18316),

Gene: Morty007_24 Start: 19258, Stop: 19779, Start Num: 28

Candidate Starts for Morty007_24:

(Start: 28 @19258 has 335 MA's), (37, 19288), (43, 19306), (47, 19318), (61, 19423), (81, 19546), (83, 19552), (85, 19561), (91, 19597), (93, 19630), (104, 19687),

Gene: Mosaic_22 Start: 17520, Stop: 18038, Start Num: 28

Candidate Starts for Mosaic_22:

(6, 16965), (7, 17019), (9, 17034), (10, 17043), (16, 17160), (18, 17202), (20, 17247), (26, 17466), (Start: 28 @17520 has 335 MA's), (38, 17553), (67, 17709), (68, 17715), (71, 17724), (81, 17790), (93, 17874), (109, 17976), (115, 18018),

Gene: MossRose_22 Start: 17713, Stop: 18252, Start Num: 27

Candidate Starts for MossRose_22:

(26, 17662), (Start: 27 @17713 has 44 MA's), (45, 17779), (71, 17935), (78, 17995), (81, 18004), (86, 18025), (97, 18124), (101, 18145), (111, 18214), (113, 18223),

Gene: MrPhizzler_22 Start: 17519, Stop: 18037, Start Num: 28

Candidate Starts for MrPhizzler_22:

(26, 17465), (Start: 28 @17519 has 335 MA's), (38, 17552), (67, 17708), (68, 17714), (71, 17723), (81, 17789), (93, 17873), (109, 17975), (115, 18017),

Gene: Mudslide_21 Start: 18683, Stop: 19213, Start Num: 28

Candidate Starts for Mudslide_21:

(Start: 24 @18515 has 1 MA's), (Start: 28 @18683 has 335 MA's), (35, 18713), (45, 18743), (51, 18782), (68, 18887), (72, 18917), (74, 18935), (82, 18968), (84, 18974), (86, 18986), (88, 19001), (94, 19055), (106, 19133),

Gene: Mulan_22 Start: 17514, Stop: 18032, Start Num: 28

Candidate Starts for Mulan_22:

(26, 17460), (Start: 28 @17514 has 335 MA's), (38, 17547), (67, 17703), (68, 17709), (71, 17718), (81, 17784), (93, 17868), (109, 17970), (115, 18012),

Gene: Murdoc_23 Start: 17807, Stop: 18325, Start Num: 28

Candidate Starts for Murdoc_23:

(6, 17252), (7, 17306), (9, 17321), (10, 17330), (16, 17447), (18, 17489), (20, 17534), (26, 17753), (Start: 28 @17807 has 335 MA's), (38, 17840), (67, 17996), (68, 18002), (71, 18011), (81, 18077), (93, 18161), (109, 18263), (115, 18305),

Gene: Mutante_22 Start: 17517, Stop: 18035, Start Num: 28

Candidate Starts for Mutante_22:

(6, 16962), (7, 17016), (9, 17031), (10, 17040), (16, 17157), (18, 17199), (20, 17244), (26, 17463), (Start: 28 @17517 has 335 MA's), (38, 17550), (67, 17706), (68, 17712), (71, 17721), (81, 17787), (93, 17871), (109, 17973), (115, 18015),

Gene: Mysterious_24 Start: 18806, Stop: 19297, Start Num: 28

Candidate Starts for Mysterious_24:

(26, 18752), (Start: 28 @18806 has 335 MA's), (42, 18842), (45, 18851), (48, 18860), (55, 18893), (65, 18962), (68, 18977), (81, 19055), (86, 19076), (87, 19088), (90, 19103), (100, 19193), (111, 19259), (117, 19286),

Gene: NHagos_20 Start: 16255, Stop: 16794, Start Num: 27

Candidate Starts for NHagos_20:

(26, 16204), (Start: 27 @16255 has 44 MA's), (38, 16300), (71, 16477), (81, 16546), (82, 16549), (84, 16555), (88, 16582), (89, 16585), (113, 16765),

Gene: Nacho_0023 Start: 17806, Stop: 18324, Start Num: 28

Candidate Starts for Nacho_0023:

(26, 17752), (Start: 28 @17806 has 335 MA's), (38, 17839), (67, 17995), (68, 18001), (71, 18010), (81, 18076), (93, 18160), (109, 18262), (115, 18304),

Gene: Nanao_20 Start: 17402, Stop: 17932, Start Num: 28

Candidate Starts for Nanao_20:

(8, 16913), (14, 16946), (Start: 24 @17234 has 1 MA's), (Start: 28 @17402 has 335 MA's), (35, 17432), (51, 17501), (68, 17606), (72, 17636), (74, 17654), (82, 17687), (84, 17693), (86, 17705), (88, 17720), (94, 17774), (106, 17852),

Gene: Nangang_23 Start: 18505, Stop: 18996, Start Num: 28

Candidate Starts for Nangang_23:

(26, 18451), (Start: 28 @18505 has 335 MA's), (42, 18541), (45, 18550), (55, 18592), (68, 18676), (81, 18754), (86, 18775), (87, 18787), (101, 18895), (111, 18958),

Gene: Neos5_24 Start: 19268, Stop: 19789, Start Num: 28

Candidate Starts for Neos5_24:

(Start: 28 @19268 has 335 MA's), (37, 19298), (43, 19316), (47, 19328), (61, 19433), (81, 19556), (83, 19562), (85, 19571), (93, 19640), (104, 19697),

Gene: Newman_23 Start: 17806, Stop: 18324, Start Num: 28

Candidate Starts for Newman_23:

(26, 17752), (Start: 28 @17806 has 335 MA's), (38, 17839), (67, 17995), (68, 18001), (71, 18010), (81, 18076), (93, 18160), (109, 18262), (115, 18304),

Gene: Nicole21_23 Start: 17798, Stop: 18316, Start Num: 28

Candidate Starts for Nicole21_23:

(6, 17243), (7, 17297), (9, 17312), (10, 17321), (16, 17438), (18, 17480), (20, 17525), (26, 17744), (Start: 28 @17798 has 335 MA's), (38, 17831), (67, 17987), (68, 17993), (71, 18002), (81, 18068), (93, 18152), (109, 18254), (115, 18296),

Gene: Nigel_19 Start: 17285, Stop: 17815, Start Num: 28

Candidate Starts for Nigel_19:

(Start: 28 @17285 has 335 MA's), (35, 17315), (41, 17333), (51, 17384), (52, 17387), (68, 17489), (74, 17537), (81, 17567), (82, 17570), (84, 17576), (86, 17588), (88, 17603), (94, 17657), (96, 17675), (106, 17735),

Gene: Nozo_24 Start: 19238, Stop: 19759, Start Num: 28

Candidate Starts for Nozo_24:

(Start: 28 @19238 has 335 MA's), (37, 19268), (43, 19286), (47, 19298), (61, 19403), (81, 19526), (83, 19532), (85, 19541), (93, 19610), (104, 19667),

Gene: Numberten_23 Start: 17811, Stop: 18329, Start Num: 28

Candidate Starts for Numberten_23:

(6, 17256), (7, 17310), (9, 17325), (10, 17334), (16, 17451), (18, 17493), (20, 17538), (26, 17757),
(Start: 28 @17811 has 335 MA's), (38, 17844), (67, 18000), (68, 18006), (71, 18015), (81, 18081), (93,
18165), (109, 18267), (115, 18309),

Gene: Nyala_22 Start: 17509, Stop: 18027, Start Num: 28

Candidate Starts for Nyala_22:

(26, 17455), (Start: 28 @17509 has 335 MA's), (38, 17542), (67, 17698), (68, 17704), (71, 17713), (81,
17779), (93, 17863), (109, 17965), (115, 18007),

Gene: OSmaximus_23 Start: 17818, Stop: 18336, Start Num: 28

Candidate Starts for OSmaximus_23:

(6, 17263), (7, 17317), (9, 17332), (10, 17341), (16, 17458), (18, 17500), (20, 17545), (26, 17764),
(Start: 28 @17818 has 335 MA's), (38, 17851), (67, 18007), (68, 18013), (71, 18022), (81, 18088), (93,
18172), (109, 18274), (115, 18316),

Gene: Obutu_24 Start: 18471, Stop: 18992, Start Num: 28

Candidate Starts for Obutu_24:

(Start: 28 @18471 has 335 MA's), (37, 18501), (43, 18519), (47, 18531), (61, 18636), (81, 18759), (83,
18765), (85, 18774), (93, 18843), (104, 18900),

Gene: Olak_23 Start: 17510, Stop: 18028, Start Num: 28

Candidate Starts for Olak_23:

(6, 16955), (7, 17009), (9, 17024), (10, 17033), (16, 17150), (18, 17192), (20, 17237), (26, 17456),
(Start: 28 @17510 has 335 MA's), (38, 17543), (67, 17699), (68, 17705), (71, 17714), (81, 17780), (93,
17864), (109, 17966), (115, 18008),

Gene: Oline_22 Start: 17372, Stop: 17890, Start Num: 28

Candidate Starts for Oline_22:

(26, 17318), (Start: 28 @17372 has 335 MA's), (38, 17405), (67, 17561), (68, 17567), (71, 17576), (81,
17642), (93, 17726), (109, 17828), (115, 17870),

Gene: Olive_23 Start: 17799, Stop: 18317, Start Num: 28

Candidate Starts for Olive_23:

(26, 17745), (Start: 28 @17799 has 335 MA's), (38, 17832), (67, 17988), (68, 17994), (71, 18003), (81,
18069), (93, 18153), (109, 18255), (115, 18297),

Gene: OliverWalter_23 Start: 17815, Stop: 18333, Start Num: 28

Candidate Starts for OliverWalter_23:

(26, 17761), (Start: 28 @17815 has 335 MA's), (38, 17848), (67, 18004), (68, 18010), (71, 18019), (81,
18085), (93, 18169), (109, 18271), (115, 18313),

Gene: Omniscient_23 Start: 17818, Stop: 18336, Start Num: 28

Candidate Starts for Omniscient_23:

(6, 17263), (7, 17317), (9, 17332), (10, 17341), (16, 17458), (18, 17500), (20, 17545), (26, 17764),
(Start: 28 @17818 has 335 MA's), (38, 17851), (67, 18007), (68, 18013), (71, 18022), (81, 18088), (93,
18172), (109, 18274), (115, 18316),

Gene: Oosterbaan_23 Start: 17810, Stop: 18328, Start Num: 28

Candidate Starts for Oosterbaan_23:

(6, 17255), (7, 17309), (9, 17324), (10, 17333), (16, 17450), (18, 17492), (20, 17537), (26, 17756),
(Start: 28 @17810 has 335 MA's), (38, 17843), (67, 17999), (68, 18005), (71, 18014), (81, 18080), (93,
18164), (109, 18266), (115, 18308),

Gene: Opia_25 Start: 19912, Stop: 20472, Start Num: 27

Candidate Starts for Opia_25:

(Start: 25 @19750 has 1 MA's), (Start: 27 @19912 has 44 MA's), (Start: 30 @19930 has 10 MA's), (31, 19933), (38, 19960), (42, 19972), (55, 20044), (62, 20101), (68, 20137), (73, 20188), (79, 20221), (100, 20368), (114, 20446),

Gene: OrangeOswald_24 Start: 18476, Stop: 18997, Start Num: 28

Candidate Starts for OrangeOswald_24:

(Start: 28 @18476 has 335 MA's), (37, 18506), (43, 18524), (47, 18536), (61, 18641), (81, 18764), (83, 18770), (85, 18779), (93, 18848), (104, 18905),

Gene: Orfeu_22 Start: 17509, Stop: 18027, Start Num: 28

Candidate Starts for Orfeu_22:

(6, 16954), (7, 17008), (9, 17023), (10, 17032), (16, 17149), (18, 17191), (20, 17236), (26, 17455), (Start: 28 @17509 has 335 MA's), (38, 17542), (67, 17698), (68, 17704), (71, 17713), (81, 17779), (93, 17863), (109, 17965), (115, 18007),

Gene: Orion_23 Start: 17807, Stop: 18325, Start Num: 28

Candidate Starts for Orion_23:

(26, 17753), (Start: 28 @17807 has 335 MA's), (38, 17840), (67, 17996), (68, 18002), (71, 18011), (81, 18077), (93, 18161), (109, 18263), (115, 18305),

Gene: Orwigg_23 Start: 17504, Stop: 18022, Start Num: 28

Candidate Starts for Orwigg_23:

(6, 16949), (7, 17003), (9, 17018), (10, 17027), (16, 17144), (18, 17186), (20, 17231), (26, 17450), (Start: 28 @17504 has 335 MA's), (38, 17537), (67, 17693), (68, 17699), (71, 17708), (81, 17774), (93, 17858), (109, 17960), (115, 18002),

Gene: PG1_23 Start: 17820, Stop: 18338, Start Num: 28

Candidate Starts for PG1_23:

(26, 17766), (Start: 28 @17820 has 335 MA's), (38, 17853), (67, 18009), (68, 18015), (71, 18024), (81, 18090), (93, 18174), (109, 18276), (115, 18318),

Gene: PR_17 Start: 17256, Stop: 17777, Start Num: 30

Candidate Starts for PR_17:

(26, 17202), (Start: 30 @17256 has 10 MA's), (45, 17307), (49, 17337), (52, 17349), (54, 17364), (55, 17370), (68, 17442), (74, 17496), (75, 17502), (77, 17517), (86, 17556), (89, 17574), (107, 17703), (108, 17712), (110, 17721), (115, 17757),

Gene: Pacifista_24 Start: 17511, Stop: 18029, Start Num: 28

Candidate Starts for Pacifista_24:

(6, 16956), (7, 17010), (9, 17025), (10, 17034), (16, 17151), (18, 17193), (20, 17238), (26, 17457), (Start: 28 @17511 has 335 MA's), (38, 17544), (67, 17700), (68, 17706), (71, 17715), (81, 17781), (93, 17865), (109, 17967), (115, 18009),

Gene: PenguinLover67_25 Start: 20039, Stop: 20563, Start Num: 28

Candidate Starts for PenguinLover67_25:

(16, 19676), (Start: 25 @19871 has 1 MA's), (Start: 28 @20039 has 335 MA's), (36, 20069), (37, 20072), (55, 20153), (68, 20237), (71, 20246), (81, 20315), (86, 20336), (88, 20351), (98, 20441), (111, 20525),

Gene: Phaedrus_22 Start: 18392, Stop: 18913, Start Num: 28

Candidate Starts for Phaedrus_22:

(Start: 28 @18392 has 335 MA's), (37, 18422), (43, 18440), (47, 18452), (61, 18557), (81, 18680), (83, 18686), (85, 18695), (93, 18764), (104, 18821),

Gene: Phamished_23 Start: 17815, Stop: 18333, Start Num: 28

Candidate Starts for Phamished_23:

(6, 17260), (7, 17314), (9, 17329), (10, 17338), (16, 17455), (18, 17497), (20, 17542), (26, 17761), (Start: 28 @17815 has 335 MA's), (38, 17848), (67, 18004), (68, 18010), (71, 18019), (81, 18085), (93, 18169), (109, 18271), (115, 18313),

Gene: Phantasmagoria_25 Start: 19908, Stop: 20468, Start Num: 27

Candidate Starts for Phantasmagoria_25:

(Start: 25 @19746 has 1 MA's), (Start: 27 @19908 has 44 MA's), (Start: 30 @19926 has 10 MA's), (31, 19929), (38, 19956), (42, 19968), (55, 20040), (62, 20097), (68, 20133), (73, 20184), (79, 20217), (100, 20364), (114, 20442),

Gene: Phareon_23 Start: 17515, Stop: 18033, Start Num: 28

Candidate Starts for Phareon_23:

(26, 17461), (Start: 28 @17515 has 335 MA's), (38, 17548), (67, 17704), (68, 17710), (71, 17719), (81, 17785), (93, 17869), (109, 17971), (115, 18013),

Gene: PhatCats2014_23 Start: 17825, Stop: 18343, Start Num: 28

Candidate Starts for PhatCats2014_23:

(6, 17270), (7, 17324), (9, 17339), (10, 17348), (16, 17465), (18, 17507), (20, 17552), (26, 17771), (Start: 28 @17825 has 335 MA's), (38, 17858), (67, 18014), (68, 18020), (71, 18029), (81, 18095), (93, 18179), (109, 18281), (115, 18323),

Gene: PhatLouie_23 Start: 17807, Stop: 18325, Start Num: 28

Candidate Starts for PhatLouie_23:

(2, 17201), (6, 17252), (7, 17306), (9, 17321), (10, 17330), (16, 17447), (18, 17489), (20, 17534), (26, 17753), (Start: 28 @17807 has 335 MA's), (38, 17840), (67, 17996), (68, 18002), (71, 18011), (81, 18077), (93, 18161), (109, 18263), (115, 18305),

Gene: Phayeta_24 Start: 18352, Stop: 18873, Start Num: 28

Candidate Starts for Phayeta_24:

(Start: 28 @18352 has 335 MA's), (37, 18382), (43, 18400), (47, 18412), (61, 18517), (81, 18640), (83, 18646), (85, 18655), (93, 18724), (104, 18781),

Gene: Phelemich_23 Start: 18802, Stop: 19293, Start Num: 28

Candidate Starts for Phelemich_23:

(26, 18748), (Start: 28 @18802 has 335 MA's), (42, 18838), (45, 18847), (48, 18856), (55, 18889), (65, 18958), (68, 18973), (81, 19051), (86, 19072), (87, 19084), (90, 19099), (100, 19189), (111, 19255), (117, 19282),

Gene: PhenghisKhan_22 Start: 17366, Stop: 17884, Start Num: 28

Candidate Starts for PhenghisKhan_22:

(2, 16760), (6, 16811), (7, 16865), (9, 16880), (10, 16889), (16, 17006), (18, 17048), (20, 17093), (26, 17312), (Start: 28 @17366 has 335 MA's), (38, 17399), (67, 17555), (68, 17561), (71, 17570), (81, 17636), (93, 17720), (109, 17822), (115, 17864),

Gene: Pherdinand_23 Start: 17815, Stop: 18333, Start Num: 28

Candidate Starts for Pherdinand_23:

(6, 17260), (7, 17314), (9, 17329), (10, 17338), (16, 17455), (18, 17497), (20, 17542), (26, 17761), (Start: 28 @17815 has 335 MA's), (38, 17848), (67, 18004), (68, 18010), (71, 18019), (81, 18085), (93, 18169), (109, 18271), (115, 18313),

Gene: Phergie_22 Start: 17360, Stop: 17878, Start Num: 28

Candidate Starts for Phergie_22:

(2, 16754), (6, 16805), (7, 16859), (9, 16874), (10, 16883), (16, 17000), (18, 17042), (20, 17087), (26, 17306), (Start: 28 @17360 has 335 MA's), (38, 17393), (67, 17549), (68, 17555), (71, 17564), (81, 17630), (93, 17714), (109, 17816), (115, 17858),

Gene: Philly_23 Start: 18342, Stop: 18863, Start Num: 28

Candidate Starts for Philly_23:

(Start: 28 @18342 has 335 MA's), (37, 18372), (43, 18390), (47, 18402), (61, 18507), (81, 18630), (83, 18636), (85, 18645), (93, 18714), (104, 18771),

Gene: Phipps_23 Start: 17785, Stop: 18303, Start Num: 28

Candidate Starts for Phipps_23:

(6, 17230), (7, 17284), (9, 17299), (10, 17308), (16, 17425), (18, 17467), (20, 17512), (26, 17731), (Start: 28 @17785 has 335 MA's), (38, 17818), (67, 17974), (68, 17980), (71, 17989), (81, 18055), (93, 18139), (109, 18241), (115, 18283),

Gene: Phleuron_22 Start: 17366, Stop: 17884, Start Num: 28

Candidate Starts for Phleuron_22:

(2, 16760), (6, 16811), (7, 16865), (9, 16880), (10, 16889), (16, 17006), (18, 17048), (20, 17093), (26, 17312), (Start: 28 @17366 has 335 MA's), (38, 17399), (67, 17555), (68, 17561), (71, 17570), (81, 17636), (93, 17720), (109, 17822), (115, 17864),

Gene: Phlyer_24 Start: 19211, Stop: 19732, Start Num: 28

Candidate Starts for Phlyer_24:

(Start: 28 @19211 has 335 MA's), (37, 19241), (43, 19259), (47, 19271), (61, 19376), (81, 19499), (83, 19505), (85, 19514), (93, 19583), (104, 19640),

Gene: PhrankReynolds_22 Start: 17366, Stop: 17884, Start Num: 28

Candidate Starts for PhrankReynolds_22:

(2, 16760), (6, 16811), (7, 16865), (9, 16880), (10, 16889), (16, 17006), (18, 17048), (20, 17093), (26, 17312), (Start: 28 @17366 has 335 MA's), (38, 17399), (67, 17555), (68, 17561), (71, 17570), (81, 17636), (93, 17720), (109, 17822), (115, 17864),

Gene: PhrodoBaggins_22 Start: 17803, Stop: 18321, Start Num: 28

Candidate Starts for PhrodoBaggins_22:

(6, 17248), (7, 17302), (9, 17317), (10, 17326), (16, 17443), (18, 17485), (20, 17530), (26, 17749), (Start: 28 @17803 has 335 MA's), (38, 17836), (67, 17992), (68, 17998), (71, 18007), (81, 18073), (93, 18157), (109, 18259), (115, 18301),

Gene: Phunky_23 Start: 17809, Stop: 18327, Start Num: 28

Candidate Starts for Phunky_23:

(6, 17254), (7, 17308), (9, 17323), (10, 17332), (16, 17449), (18, 17491), (20, 17536), (26, 17755), (Start: 28 @17809 has 335 MA's), (38, 17842), (67, 17998), (68, 18004), (71, 18013), (81, 18079), (93, 18163), (109, 18265), (115, 18307),

Gene: Piglet_0022 Start: 17809, Stop: 18327, Start Num: 28

Candidate Starts for Piglet_0022:

(26, 17755), (Start: 28 @17809 has 335 MA's), (38, 17842), (67, 17998), (68, 18004), (71, 18013), (81, 18079), (93, 18163), (109, 18265), (115, 18307),

Gene: Pine5_23 Start: 18642, Stop: 19172, Start Num: 33

Candidate Starts for Pine5_23:

(33, 18642), (34, 18654), (55, 18747), (70, 18843), (84, 18924), (97, 19035), (101, 19056),

Gene: PinheadLarry_23 Start: 17526, Stop: 18044, Start Num: 28

Candidate Starts for PinheadLarry_23:

(26, 17472), (Start: 28 @17526 has 335 MA's), (38, 17559), (67, 17715), (68, 17721), (71, 17730), (81, 17796), (93, 17880), (109, 17982), (115, 18024),

Gene: Pinkman_22 Start: 17366, Stop: 17884, Start Num: 28

Candidate Starts for Pinkman_22:

(2, 16760), (6, 16811), (7, 16865), (9, 16880), (10, 16889), (16, 17006), (18, 17048), (20, 17093), (26, 17312), (Start: 28 @17366 has 335 MA's), (38, 17399), (67, 17555), (68, 17561), (71, 17570), (81, 17636), (93, 17720), (109, 17822), (115, 17864),

Gene: Pipefish_24 Start: 19358, Stop: 19879, Start Num: 28

Candidate Starts for Pipefish_24:

(Start: 28 @19358 has 335 MA's), (37, 19388), (43, 19406), (61, 19523), (81, 19646), (83, 19652), (85, 19661), (93, 19730), (104, 19787),

Gene: Pipsqueak_23 Start: 17815, Stop: 18333, Start Num: 28

Candidate Starts for Pipsqueak_23:

(26, 17761), (Start: 28 @17815 has 335 MA's), (38, 17848), (67, 18004), (68, 18010), (71, 18019), (81, 18085), (93, 18169), (109, 18271), (115, 18313),

Gene: Placalicious_22 Start: 17508, Stop: 18026, Start Num: 28

Candidate Starts for Placalicious_22:

(6, 16953), (7, 17007), (9, 17022), (10, 17031), (16, 17148), (18, 17190), (20, 17235), (26, 17454), (Start: 28 @17508 has 335 MA's), (38, 17541), (67, 17697), (68, 17703), (71, 17712), (81, 17778), (93, 17862), (109, 17964), (115, 18006),

Gene: Plmatters_23 Start: 17812, Stop: 18330, Start Num: 28

Candidate Starts for Plmatters_23:

(6, 17257), (7, 17311), (9, 17326), (10, 17335), (16, 17452), (18, 17494), (20, 17539), (26, 17758), (Start: 28 @17812 has 335 MA's), (38, 17845), (67, 18001), (68, 18007), (71, 18016), (81, 18082), (93, 18166), (109, 18268), (115, 18310),

Gene: Podrick_23 Start: 17804, Stop: 18322, Start Num: 28

Candidate Starts for Podrick_23:

(6, 17249), (7, 17303), (9, 17318), (10, 17327), (16, 17444), (18, 17486), (20, 17531), (26, 17750), (Start: 28 @17804 has 335 MA's), (38, 17837), (67, 17993), (68, 17999), (71, 18008), (81, 18074), (93, 18158), (109, 18260), (115, 18302),

Gene: Pops_23 Start: 17812, Stop: 18330, Start Num: 28

Candidate Starts for Pops_23:

(6, 17257), (7, 17311), (9, 17326), (10, 17335), (16, 17452), (18, 17494), (20, 17539), (26, 17758), (Start: 28 @17812 has 335 MA's), (38, 17845), (67, 18001), (68, 18007), (71, 18016), (81, 18082), (93, 18166), (109, 18268), (115, 18310),

Gene: Poster_20 Start: 17403, Stop: 17933, Start Num: 28

Candidate Starts for Poster_20:

(8, 16914), (14, 16947), (Start: 24 @17235 has 1 MA's), (Start: 28 @17403 has 335 MA's), (35, 17433), (51, 17502), (68, 17607), (72, 17637), (74, 17655), (82, 17688), (84, 17694), (86, 17706), (88, 17721), (94, 17775), (106, 17853),

Gene: Potter_22 Start: 17522, Stop: 18040, Start Num: 28

Candidate Starts for Potter_22:

(26, 17468), (Start: 28 @17522 has 335 MA's), (38, 17555), (67, 17711), (68, 17717), (71, 17726), (81, 17792), (93, 17876), (109, 17978), (115, 18020),

Gene: Prickles_23 Start: 17801, Stop: 18319, Start Num: 28

Candidate Starts for Prickles_23:

(26, 17747), (Start: 28 @17801 has 335 MA's), (38, 17834), (67, 17990), (68, 17996), (71, 18005), (81, 18071), (93, 18155), (109, 18257), (115, 18299),

Gene: Prince_22 Start: 18595, Stop: 19125, Start Num: 28

Candidate Starts for Prince_22:

(Start: 24 @18427 has 1 MA's), (Start: 28 @18595 has 335 MA's), (35, 18625), (51, 18694), (68, 18799), (72, 18829), (74, 18847), (82, 18880), (84, 18886), (86, 18898), (88, 18913), (94, 18967), (97, 18997), (106, 19045),

Gene: ProfessorX_23 Start: 17799, Stop: 18317, Start Num: 28

Candidate Starts for ProfessorX_23:

(26, 17745), (Start: 28 @17799 has 335 MA's), (38, 17832), (67, 17988), (68, 17994), (71, 18003), (81, 18069), (93, 18153), (109, 18255), (115, 18297),

Gene: Puhltonio_23 Start: 17815, Stop: 18333, Start Num: 28

Candidate Starts for Puhltonio_23:

(6, 17260), (7, 17314), (9, 17329), (10, 17338), (16, 17455), (18, 17497), (20, 17542), (26, 17761), (Start: 28 @17815 has 335 MA's), (38, 17848), (67, 18004), (68, 18010), (71, 18019), (81, 18085), (93, 18169), (109, 18271), (115, 18313),

Gene: QueenBeane_23 Start: 17807, Stop: 18325, Start Num: 28

Candidate Starts for QueenBeane_23:

(26, 17753), (Start: 28 @17807 has 335 MA's), (38, 17840), (67, 17996), (68, 18002), (71, 18011), (81, 18077), (93, 18161), (109, 18263), (115, 18305),

Gene: Quesadilla_24 Start: 19939, Stop: 20463, Start Num: 28

Candidate Starts for Quesadilla_24:

(4, 19366), (14, 19480), (18, 19618), (Start: 25 @19771 has 1 MA's), (Start: 28 @19939 has 335 MA's), (55, 20053), (71, 20146), (81, 20215), (88, 20251), (95, 20311), (98, 20341), (106, 20383), (111, 20425),

Gene: Quisquilliae_23 Start: 17822, Stop: 18340, Start Num: 28

Candidate Starts for Quisquilliae_23:

(6, 17267), (7, 17321), (9, 17336), (10, 17345), (16, 17462), (18, 17504), (20, 17549), (26, 17768), (Start: 28 @17822 has 335 MA's), (38, 17855), (67, 18011), (68, 18017), (71, 18026), (81, 18092), (93, 18176), (109, 18278), (115, 18320),

Gene: Qyrzula_23 Start: 19836, Stop: 20558, Start Num: 25

Candidate Starts for Qyrzula_23:

(Start: 25 @19836 has 1 MA's), (Start: 27 @19998 has 44 MA's), (Start: 30 @20016 has 10 MA's), (31, 20019), (38, 20046), (42, 20058), (55, 20130), (62, 20187), (68, 20223), (73, 20274), (79, 20307),

(100, 20454), (114, 20532),

Gene: RagingRooster_24 Start: 18477, Stop: 18998, Start Num: 28

Candidate Starts for RagingRooster_24:

(Start: 28 @18477 has 335 MA's), (37, 18507), (61, 18642), (81, 18765), (83, 18771), (85, 18780), (93, 18849), (104, 18906),

Gene: RawrgerThat_21 Start: 18432, Stop: 18962, Start Num: 28

Candidate Starts for RawrgerThat_21:

(Start: 24 @18264 has 1 MA's), (Start: 28 @18432 has 335 MA's), (35, 18462), (51, 18531), (68, 18636), (72, 18666), (74, 18684), (82, 18717), (84, 18723), (86, 18735), (88, 18750), (94, 18804), (97, 18834), (106, 18882),

Gene: RedMaple_22 Start: 17818, Stop: 18336, Start Num: 28

Candidate Starts for RedMaple_22:

(26, 17764), (Start: 28 @17818 has 335 MA's), (38, 17851), (67, 18007), (68, 18013), (71, 18022), (81, 18088), (93, 18172), (109, 18274), (115, 18316),

Gene: Reprobate_23 Start: 18807, Stop: 19298, Start Num: 28

Candidate Starts for Reprobate_23:

(26, 18753), (Start: 28 @18807 has 335 MA's), (42, 18843), (45, 18852), (48, 18861), (55, 18894), (65, 18963), (68, 18978), (81, 19056), (86, 19077), (87, 19089), (90, 19104), (100, 19194), (111, 19260), (117, 19287),

Gene: Rhinoforte_25 Start: 20029, Stop: 20589, Start Num: 27

Candidate Starts for Rhinoforte_25:

(Start: 25 @19867 has 1 MA's), (Start: 27 @20029 has 44 MA's), (Start: 30 @20047 has 10 MA's), (38, 20077), (42, 20089), (55, 20161), (62, 20218), (68, 20254), (73, 20305), (79, 20338), (100, 20485), (114, 20563),

Gene: Rich_22 Start: 18309, Stop: 18800, Start Num: 28

Candidate Starts for Rich_22:

(11, 17835), (13, 17841), (15, 17853), (17, 17949), (19, 17991), (26, 18255), (Start: 28 @18309 has 335 MA's), (42, 18345), (45, 18354), (55, 18396), (68, 18480), (81, 18558), (86, 18579), (87, 18591), (89, 18597), (100, 18696), (111, 18762),

Gene: Ricotta_23 Start: 17530, Stop: 18048, Start Num: 28

Candidate Starts for Ricotta_23:

(6, 16975), (7, 17029), (9, 17044), (10, 17053), (16, 17170), (18, 17212), (20, 17257), (26, 17476), (Start: 28 @17530 has 335 MA's), (38, 17563), (67, 17719), (68, 17725), (71, 17734), (81, 17800), (93, 17884), (109, 17986), (115, 18028),

Gene: Riggan_23 Start: 17790, Stop: 18308, Start Num: 28

Candidate Starts for Riggan_23:

(6, 17235), (7, 17289), (9, 17304), (10, 17313), (16, 17430), (18, 17472), (20, 17517), (26, 17736), (Start: 28 @17790 has 335 MA's), (38, 17823), (67, 17979), (68, 17985), (71, 17994), (81, 18060), (93, 18144), (109, 18246), (115, 18288),

Gene: Rimu_23 Start: 17519, Stop: 18037, Start Num: 28

Candidate Starts for Rimu_23:

(2, 16913), (6, 16964), (7, 17018), (9, 17033), (10, 17042), (16, 17159), (18, 17201), (20, 17246), (26, 17465), (Start: 28 @17519 has 335 MA's), (38, 17552), (67, 17708), (68, 17714), (71, 17723), (81, 17789), (93, 17873), (109, 17975), (115, 18017),

Gene: Rita1961_24 Start: 18472, Stop: 18993, Start Num: 28

Candidate Starts for Rita1961_24:

(Start: 28 @18472 has 335 MA's), (37, 18502), (43, 18520), (47, 18532), (61, 18637), (81, 18760), (83, 18766), (85, 18775), (93, 18844), (104, 18901),

Gene: Robyn_22 Start: 17381, Stop: 17899, Start Num: 28

Candidate Starts for Robyn_22:

(26, 17327), (Start: 28 @17381 has 335 MA's), (38, 17414), (67, 17570), (68, 17576), (71, 17585), (81, 17651), (93, 17735), (109, 17837), (115, 17879),

Gene: Roliet_23 Start: 17806, Stop: 18324, Start Num: 28

Candidate Starts for Roliet_23:

(26, 17752), (Start: 28 @17806 has 335 MA's), (38, 17839), (67, 17995), (68, 18001), (71, 18010), (81, 18076), (93, 18160), (109, 18262), (115, 18304),

Gene: RomaT_24 Start: 19256, Stop: 19780, Start Num: 28

Candidate Starts for RomaT_24:

(Start: 28 @19256 has 335 MA's), (37, 19289), (43, 19307), (61, 19424), (81, 19547), (83, 19553), (85, 19562), (93, 19631), (104, 19688),

Gene: Roscoe_24 Start: 18048, Stop: 18566, Start Num: 28

Candidate Starts for Roscoe_24:

(26, 17994), (Start: 28 @18048 has 335 MA's), (38, 18081), (67, 18237), (68, 18243), (71, 18252), (81, 18318), (93, 18402), (109, 18504), (115, 18546),

Gene: Rosebush_25 Start: 20029, Stop: 20589, Start Num: 27

Candidate Starts for Rosebush_25:

(Start: 25 @19867 has 1 MA's), (Start: 27 @20029 has 44 MA's), (Start: 30 @20047 has 10 MA's), (31, 20050), (38, 20077), (42, 20089), (55, 20161), (62, 20218), (68, 20254), (73, 20305), (79, 20338), (100, 20485), (114, 20563),

Gene: Roy17_23 Start: 17510, Stop: 18028, Start Num: 28

Candidate Starts for Roy17_23:

(6, 16955), (7, 17009), (9, 17024), (10, 17033), (16, 17150), (18, 17192), (20, 17237), (26, 17456), (Start: 28 @17510 has 335 MA's), (38, 17543), (67, 17699), (68, 17705), (71, 17714), (81, 17780), (93, 17864), (109, 17966), (115, 18008),

Gene: SDcharge11_23 Start: 17788, Stop: 18306, Start Num: 28

Candidate Starts for SDcharge11_23:

(26, 17734), (Start: 28 @17788 has 335 MA's), (38, 17821), (67, 17977), (68, 17983), (71, 17992), (81, 18058), (93, 18142), (109, 18244), (115, 18286),

Gene: Sabella_25 Start: 19915, Stop: 20475, Start Num: 27

Candidate Starts for Sabella_25:

(Start: 25 @19753 has 1 MA's), (Start: 27 @19915 has 44 MA's), (Start: 30 @19933 has 10 MA's), (31, 19936), (38, 19963), (42, 19975), (55, 20047), (62, 20104), (68, 20140), (73, 20191), (79, 20224), (100, 20371), (114, 20449),

Gene: Saguaro_24 Start: 19845, Stop: 20369, Start Num: 28

Candidate Starts for Saguaro_24:

(26, 19791), (Start: 28 @19845 has 335 MA's), (42, 19896), (67, 20043), (68, 20049), (71, 20058), (76, 20106), (81, 20127), (84, 20136), (86, 20148), (88, 20163), (89, 20166), (95, 20223), (97, 20247), (98,

20253), (101, 20268),

Gene: Samaymay_23 Start: 17807, Stop: 18325, Start Num: 28

Candidate Starts for Samaymay_23:

(26, 17753), (Start: 28 @17807 has 335 MA's), (38, 17840), (67, 17996), (68, 18002), (71, 18011), (81, 18077), (93, 18161), (109, 18263), (115, 18305),

Gene: SassyCat97_22 Start: 17516, Stop: 18034, Start Num: 28

Candidate Starts for SassyCat97_22:

(6, 16961), (7, 17015), (9, 17030), (10, 17039), (16, 17156), (18, 17198), (20, 17243), (26, 17462), (Start: 28 @17516 has 335 MA's), (38, 17549), (67, 17705), (68, 17711), (71, 17720), (81, 17786), (93, 17870), (109, 17972), (115, 18014),

Gene: Schadenfreude_22 Start: 17364, Stop: 17882, Start Num: 28

Candidate Starts for Schadenfreude_22:

(6, 16809), (7, 16863), (9, 16878), (10, 16887), (16, 17004), (18, 17046), (20, 17091), (26, 17310), (Start: 28 @17364 has 335 MA's), (38, 17397), (67, 17553), (68, 17559), (71, 17568), (81, 17634), (93, 17718), (109, 17820), (115, 17862),

Gene: Schueller_23 Start: 17507, Stop: 18025, Start Num: 28

Candidate Starts for Schueller_23:

(2, 16901), (6, 16952), (7, 17006), (9, 17021), (10, 17030), (16, 17147), (18, 17189), (20, 17234), (26, 17453), (Start: 28 @17507 has 335 MA's), (38, 17540), (67, 17696), (68, 17702), (71, 17711), (81, 17777), (93, 17861), (109, 17963), (115, 18005),

Gene: Scoot17C_23 Start: 17809, Stop: 18327, Start Num: 28

Candidate Starts for Scoot17C_23:

(26, 17755), (Start: 28 @17809 has 335 MA's), (38, 17842), (67, 17998), (68, 18004), (71, 18013), (81, 18079), (93, 18163), (109, 18265), (115, 18307),

Gene: Scrick_23 Start: 17534, Stop: 18052, Start Num: 28

Candidate Starts for Scrick_23:

(6, 16979), (7, 17033), (9, 17048), (10, 17057), (16, 17174), (18, 17216), (20, 17261), (26, 17480), (Start: 28 @17534 has 335 MA's), (38, 17567), (67, 17723), (68, 17729), (71, 17738), (81, 17804), (93, 17888), (109, 17990), (115, 18032),

Gene: Sejanus_20 Start: 16761, Stop: 17306, Start Num: 30

Candidate Starts for Sejanus_20:

(22, 16575), (Start: 25 @16596 has 1 MA's), (26, 16707), (Start: 27 @16758 has 44 MA's), (Start: 30 @16761 has 10 MA's), (45, 16812), (49, 16842), (55, 16875), (57, 16902), (59, 16914), (64, 16944), (68, 16971), (78, 17055), (79, 17058), (86, 17085), (89, 17103), (115, 17286),

Gene: Selr12_23 Start: 17531, Stop: 18049, Start Num: 28

Candidate Starts for Selr12_23:

(6, 16976), (7, 17030), (9, 17045), (10, 17054), (16, 17171), (18, 17213), (20, 17258), (26, 17477), (Start: 28 @17531 has 335 MA's), (38, 17564), (67, 17720), (68, 17726), (71, 17735), (81, 17801), (93, 17885), (109, 17987), (115, 18029),

Gene: Serendipitous_22 Start: 18365, Stop: 18856, Start Num: 28

Candidate Starts for Serendipitous_22:

(26, 18311), (Start: 28 @18365 has 335 MA's), (42, 18401), (45, 18410), (55, 18452), (68, 18536), (87, 18647), (90, 18662), (100, 18752), (111, 18818),

Gene: Serendipity_23 Start: 17829, Stop: 18347, Start Num: 28

Candidate Starts for Serendipity_23:

(26, 17775), (Start: 28 @17829 has 335 MA's), (38, 17862), (67, 18018), (68, 18024), (71, 18033), (81, 18099), (93, 18183), (109, 18285), (115, 18327),

Gene: Serpentine_0023 Start: 17809, Stop: 18327, Start Num: 28

Candidate Starts for Serpentine_0023:

(26, 17755), (Start: 28 @17809 has 335 MA's), (38, 17842), (67, 17998), (68, 18004), (71, 18013), (81, 18079), (93, 18163), (109, 18265), (115, 18307),

Gene: Shatter_20 Start: 16345, Stop: 16893, Start Num: 28

Candidate Starts for Shatter_20:

(21, 16072), (23, 16159), (Start: 25 @16177 has 1 MA's), (26, 16291), (Start: 28 @16345 has 335 MA's), (31, 16363), (45, 16411), (81, 16636), (86, 16657), (88, 16672), (111, 16852), (113, 16861),

Gene: Sheila_23 Start: 17801, Stop: 18319, Start Num: 28

Candidate Starts for Sheila_23:

(26, 17747), (Start: 28 @17801 has 335 MA's), (38, 17834), (67, 17990), (68, 17996), (71, 18005), (81, 18071), (93, 18155), (109, 18257), (115, 18299),

Gene: ShiVal_23 Start: 17801, Stop: 18319, Start Num: 28

Candidate Starts for ShiVal_23:

(6, 17246), (7, 17300), (9, 17315), (10, 17324), (16, 17441), (18, 17483), (20, 17528), (26, 17747), (Start: 28 @17801 has 335 MA's), (38, 17834), (67, 17990), (68, 17996), (71, 18005), (81, 18071), (93, 18155), (109, 18257), (115, 18299),

Gene: Sigman_23 Start: 17800, Stop: 18318, Start Num: 28

Candidate Starts for Sigman_23:

(6, 17245), (7, 17299), (9, 17314), (10, 17323), (16, 17440), (18, 17482), (20, 17527), (26, 17746), (Start: 28 @17800 has 335 MA's), (38, 17833), (67, 17989), (68, 17995), (71, 18004), (81, 18070), (93, 18154), (109, 18256), (115, 18298),

Gene: Simielle_22 Start: 17499, Stop: 18017, Start Num: 28

Candidate Starts for Simielle_22:

(26, 17445), (Start: 28 @17499 has 335 MA's), (38, 17532), (67, 17688), (68, 17694), (71, 17703), (81, 17769), (93, 17853), (109, 17955), (115, 17997),

Gene: SirJeffery_23 Start: 18547, Stop: 19038, Start Num: 28

Candidate Starts for SirJeffery_23:

(26, 18493), (Start: 28 @18547 has 335 MA's), (42, 18583), (45, 18592), (55, 18634), (68, 18718), (81, 18796), (86, 18817), (87, 18829), (89, 18835), (100, 18934), (111, 19000),

Gene: Sisko_20 Start: 16623, Stop: 17171, Start Num: 28

Candidate Starts for Sisko_20:

(23, 16437), (Start: 25 @16455 has 1 MA's), (26, 16569), (Start: 27 @16620 has 44 MA's), (Start: 28 @16623 has 335 MA's), (45, 16689), (82, 16917), (86, 16935), (88, 16950), (109, 17106), (111, 17130), (113, 17139),

Gene: Skippy_23 Start: 17794, Stop: 18312, Start Num: 28

Candidate Starts for Skippy_23:

(6, 17239), (7, 17293), (9, 17308), (10, 17317), (16, 17434), (18, 17476), (20, 17521), (26, 17740), (Start: 28 @17794 has 335 MA's), (38, 17827), (67, 17983), (68, 17989), (71, 17998), (81, 18064), (93, 18148), (109, 18250), (115, 18292),

Gene: Slatt_23 Start: 17823, Stop: 18341, Start Num: 28

Candidate Starts for Slatt_23:

(6, 17268), (7, 17322), (9, 17337), (10, 17346), (16, 17463), (18, 17505), (20, 17550), (26, 17769), (Start: 28 @17823 has 335 MA's), (38, 17856), (67, 18012), (68, 18018), (71, 18027), (81, 18093), (93, 18177), (109, 18279), (115, 18321),

Gene: SlippinJimmy_24 Start: 19241, Stop: 19762, Start Num: 28

Candidate Starts for SlippinJimmy_24:

(Start: 28 @19241 has 335 MA's), (37, 19271), (43, 19289), (47, 19301), (61, 19406), (81, 19529), (83, 19535), (85, 19544), (93, 19613), (104, 19670),

Gene: Soile_23 Start: 17521, Stop: 18039, Start Num: 28

Candidate Starts for Soile_23:

(6, 16966), (7, 17020), (9, 17035), (10, 17044), (16, 17161), (18, 17203), (20, 17248), (26, 17467), (Start: 28 @17521 has 335 MA's), (38, 17554), (67, 17710), (68, 17716), (71, 17725), (81, 17791), (93, 17875), (109, 17977), (115, 18019),

Gene: Solosis_22 Start: 17526, Stop: 18044, Start Num: 28

Candidate Starts for Solosis_22:

(26, 17472), (Start: 28 @17526 has 335 MA's), (38, 17559), (67, 17715), (68, 17721), (71, 17730), (81, 17796), (93, 17880), (109, 17982), (115, 18024),

Gene: Sophia_22 Start: 17519, Stop: 18037, Start Num: 28

Candidate Starts for Sophia_22:

(6, 16964), (7, 17018), (9, 17033), (10, 17042), (16, 17159), (18, 17201), (20, 17246), (26, 17465), (Start: 28 @17519 has 335 MA's), (38, 17552), (67, 17708), (68, 17714), (71, 17723), (81, 17789), (93, 17873), (109, 17975), (115, 18017),

Gene: Soto_23 Start: 17803, Stop: 18321, Start Num: 28

Candidate Starts for Soto_23:

(26, 17749), (Start: 28 @17803 has 335 MA's), (38, 17836), (67, 17992), (68, 17998), (71, 18007), (81, 18073), (93, 18157), (109, 18259), (115, 18301),

Gene: Sour_24 Start: 20334, Stop: 20882, Start Num: 27

Candidate Starts for Sour_24:

(26, 20283), (Start: 27 @20334 has 44 MA's), (37, 20376), (42, 20391), (45, 20400), (55, 20460), (68, 20547), (71, 20556), (81, 20625), (86, 20646), (88, 20661), (111, 20841), (113, 20850),

Gene: Spartan300_23 Start: 17804, Stop: 18322, Start Num: 28

Candidate Starts for Spartan300_23:

(26, 17750), (Start: 28 @17804 has 335 MA's), (38, 17837), (67, 17993), (68, 17999), (71, 18008), (81, 18074), (93, 18158), (109, 18260), (115, 18302),

Gene: Squid_23 Start: 17516, Stop: 18034, Start Num: 28

Candidate Starts for Squid_23:

(6, 16961), (7, 17015), (9, 17030), (10, 17039), (16, 17156), (18, 17198), (20, 17243), (26, 17462), (Start: 28 @17516 has 335 MA's), (38, 17549), (67, 17705), (68, 17711), (71, 17720), (81, 17786), (93, 17870), (109, 17972), (115, 18014),

Gene: Squiggle_23 Start: 17513, Stop: 18031, Start Num: 28

Candidate Starts for Squiggle_23:

(6, 16958), (7, 17012), (9, 17027), (10, 17036), (16, 17153), (18, 17195), (20, 17240), (26, 17459), (Start: 28 @17513 has 335 MA's), (38, 17546), (67, 17702), (68, 17708), (71, 17717), (81, 17783), (93, 17867), (109, 17969), (115, 18011),

Gene: StAugustine_28 Start: 20865, Stop: 21398, Start Num: 27

Candidate Starts for StAugustine_28:

(Start: 27 @20865 has 44 MA's), (45, 20922), (50, 20955), (68, 21075), (93, 21246), (103, 21303), (105, 21318), (109, 21336),

Gene: Stinger_19 Start: 16960, Stop: 17490, Start Num: 28

Candidate Starts for Stinger_19:

(1, 16342), (3, 16363), (5, 16393), (8, 16471), (12, 16492), (Start: 24 @16792 has 1 MA's), (Start: 28 @16960 has 335 MA's), (35, 16990), (51, 17059), (63, 17131), (74, 17212), (81, 17242), (84, 17251), (86, 17263), (88, 17278), (94, 17332), (96, 17350), (97, 17362), (106, 17410),

Gene: StinkyVeggy_25 Start: 18677, Stop: 19168, Start Num: 28

Candidate Starts for StinkyVeggy_25:

(26, 18623), (Start: 28 @18677 has 335 MA's), (41, 18710), (42, 18713), (45, 18722), (68, 18848), (81, 18926), (86, 18947), (87, 18959), (101, 19067), (111, 19130),

Gene: Struggle_22 Start: 17360, Stop: 17878, Start Num: 28

Candidate Starts for Struggle_22:

(26, 17306), (Start: 28 @17360 has 335 MA's), (38, 17393), (67, 17549), (68, 17555), (71, 17564), (81, 17630), (93, 17714), (109, 17816), (115, 17858),

Gene: Suffolk_23 Start: 17806, Stop: 18324, Start Num: 28

Candidate Starts for Suffolk_23:

(26, 17752), (Start: 28 @17806 has 335 MA's), (38, 17839), (67, 17995), (68, 18001), (71, 18010), (81, 18076), (93, 18160), (109, 18262), (115, 18304),

Gene: Suigeneris_23 Start: 18559, Stop: 19050, Start Num: 28

Candidate Starts for Suigeneris_23:

(26, 18505), (Start: 28 @18559 has 335 MA's), (42, 18595), (45, 18604), (55, 18646), (68, 18730), (81, 18808), (86, 18829), (87, 18841), (89, 18847), (111, 19012),

Gene: Surely_23 Start: 17818, Stop: 18336, Start Num: 28

Candidate Starts for Surely_23:

(6, 17263), (7, 17317), (9, 17332), (10, 17341), (16, 17458), (18, 17500), (20, 17545), (26, 17764), (Start: 28 @17818 has 335 MA's), (38, 17851), (67, 18007), (68, 18013), (71, 18022), (81, 18088), (93, 18172), (109, 18274), (115, 18316),

Gene: Swiphy_24 Start: 17807, Stop: 18325, Start Num: 28

Candidate Starts for Swiphy_24:

(2, 17201), (6, 17252), (7, 17306), (9, 17321), (10, 17330), (16, 17447), (18, 17489), (20, 17534), (26, 17753), (Start: 28 @17807 has 335 MA's), (38, 17840), (67, 17996), (68, 18002), (71, 18011), (81, 18077), (93, 18161), (109, 18263), (115, 18305),

Gene: Swish_23 Start: 17801, Stop: 18319, Start Num: 28

Candidate Starts for Swish_23:

(6, 17246), (7, 17300), (9, 17315), (10, 17324), (16, 17441), (18, 17483), (20, 17528), (26, 17747), (Start: 28 @17801 has 335 MA's), (38, 17834), (67, 17990), (68, 17996), (71, 18005), (81, 18071), (93, 18155), (109, 18257), (115, 18299),

Gene: SynergyX_24 Start: 18477, Stop: 18998, Start Num: 28

Candidate Starts for SynergyX_24:

(Start: 28 @18477 has 335 MA's), (37, 18507), (61, 18642), (81, 18765), (83, 18771), (85, 18780), (93, 18849), (104, 18906),

Gene: TA17A_25 Start: 19909, Stop: 20469, Start Num: 27

Candidate Starts for TA17A_25:

(Start: 25 @19747 has 1 MA's), (Start: 27 @19909 has 44 MA's), (Start: 30 @19927 has 10 MA's), (31, 19930), (38, 19957), (42, 19969), (55, 20041), (62, 20098), (68, 20134), (73, 20185), (79, 20218), (100, 20365), (114, 20443),

Gene: TPA2_29 Start: 18558, Stop: 19259, Start Num: 25

Candidate Starts for TPA2_29:

(Start: 25 @18558 has 1 MA's), (26, 18672), (Start: 27 @18723 has 44 MA's), (45, 18789), (55, 18849), (56, 18867), (70, 18945), (71, 18948), (81, 19017), (88, 19053),

Gene: TallGrassMM_23 Start: 17533, Stop: 18051, Start Num: 28

Candidate Starts for TallGrassMM_23:

(6, 16978), (7, 17032), (9, 17047), (10, 17056), (16, 17173), (18, 17215), (20, 17260), (26, 17479), (Start: 28 @17533 has 335 MA's), (38, 17566), (67, 17722), (68, 17728), (71, 17737), (81, 17803), (93, 17887), (109, 17989), (115, 18031),

Gene: Taptic_17 Start: 17229, Stop: 17750, Start Num: 30

Candidate Starts for Taptic_17:

(26, 17175), (Start: 30 @17229 has 10 MA's), (45, 17280), (49, 17310), (54, 17337), (55, 17343), (68, 17415), (74, 17469), (75, 17475), (77, 17490), (86, 17529), (89, 17547), (107, 17676), (108, 17685), (110, 17694), (115, 17730),

Gene: Telesworld_22 Start: 17512, Stop: 18030, Start Num: 28

Candidate Starts for Telesworld_22:

(26, 17458), (Start: 28 @17512 has 335 MA's), (38, 17545), (67, 17701), (68, 17707), (71, 17716), (81, 17782), (93, 17866), (109, 17968), (115, 18010),

Gene: Thonko_22 Start: 16247, Stop: 16792, Start Num: 28

Candidate Starts for Thonko_22:

(Start: 25 @16079 has 1 MA's), (26, 16193), (Start: 28 @16247 has 335 MA's), (Start: 30 @16262 has 10 MA's), (44, 16307), (55, 16376), (68, 16463), (70, 16469), (71, 16472), (78, 16541), (88, 16586), (97, 16670),

Gene: Thora_23 Start: 17817, Stop: 18335, Start Num: 28

Candidate Starts for Thora_23:

(6, 17262), (7, 17316), (9, 17331), (10, 17340), (16, 17457), (18, 17499), (20, 17544), (26, 17763), (Start: 28 @17817 has 335 MA's), (38, 17850), (67, 18006), (68, 18012), (71, 18021), (81, 18087), (93, 18171), (109, 18273), (115, 18315),

Gene: ThreeOh3D2_23 Start: 17816, Stop: 18334, Start Num: 28

Candidate Starts for ThreeOh3D2_23:

(26, 17762), (Start: 28 @17816 has 335 MA's), (38, 17849), (67, 18005), (68, 18011), (71, 18020), (81, 18086), (93, 18170), (109, 18272), (115, 18314),

Gene: Thunderbird_23 Start: 17516, Stop: 18034, Start Num: 28

Candidate Starts for Thunderbird_23:

(26, 17462), (Start: 28 @17516 has 335 MA's), (38, 17549), (67, 17705), (68, 17711), (71, 17720), (81, 17786), (93, 17870), (109, 17972), (115, 18014),

Gene: Timmi_22 Start: 17527, Stop: 18045, Start Num: 28

Candidate Starts for Timmi_22:

(6, 16972), (7, 17026), (9, 17041), (10, 17050), (16, 17167), (18, 17209), (20, 17254), (26, 17473), (Start: 28 @17527 has 335 MA's), (38, 17560), (67, 17716), (68, 17722), (71, 17731), (81, 17797), (93, 17881), (109, 17983), (115, 18025),

Gene: Tinciduntolum_26 Start: 20031, Stop: 20591, Start Num: 27

Candidate Starts for Tinciduntolum_26:

(Start: 25 @19869 has 1 MA's), (Start: 27 @20031 has 44 MA's), (Start: 30 @20049 has 10 MA's), (31, 20052), (38, 20079), (42, 20091), (55, 20163), (62, 20220), (68, 20256), (73, 20307), (79, 20340), (100, 20487), (114, 20565),

Gene: TomBombadil_23 Start: 17812, Stop: 18330, Start Num: 28

Candidate Starts for TomBombadil_23:

(6, 17257), (7, 17311), (9, 17326), (10, 17335), (16, 17452), (18, 17494), (20, 17539), (26, 17758), (Start: 28 @17812 has 335 MA's), (38, 17845), (67, 18001), (68, 18007), (71, 18016), (81, 18082), (93, 18166), (109, 18268), (115, 18310),

Gene: Tomlarah_23 Start: 17802, Stop: 18320, Start Num: 28

Candidate Starts for Tomlarah_23:

(26, 17748), (Start: 28 @17802 has 335 MA's), (38, 17835), (67, 17991), (68, 17997), (71, 18006), (81, 18072), (93, 18156), (109, 18258), (115, 18300),

Gene: Toni_22 Start: 17511, Stop: 18029, Start Num: 28

Candidate Starts for Toni_22:

(6, 16956), (7, 17010), (9, 17025), (10, 17034), (16, 17151), (18, 17193), (20, 17238), (26, 17457), (Start: 28 @17511 has 335 MA's), (38, 17544), (67, 17700), (68, 17706), (71, 17715), (81, 17781), (93, 17865), (109, 17967), (115, 18009),

Gene: Tooj_23 Start: 17813, Stop: 18331, Start Num: 28

Candidate Starts for Tooj_23:

(26, 17759), (Start: 28 @17813 has 335 MA's), (38, 17846), (67, 18002), (68, 18008), (71, 18017), (81, 18083), (93, 18167), (109, 18269), (115, 18311),

Gene: Tres_25 Start: 19912, Stop: 20472, Start Num: 27

Candidate Starts for Tres_25:

(Start: 25 @19750 has 1 MA's), (Start: 27 @19912 has 44 MA's), (Start: 30 @19930 has 10 MA's), (31, 19933), (38, 19960), (42, 19972), (55, 20044), (62, 20101), (68, 20137), (73, 20188), (79, 20221), (100, 20368), (114, 20446),

Gene: True_22 Start: 17515, Stop: 18033, Start Num: 28

Candidate Starts for True_22:

(26, 17461), (Start: 28 @17515 has 335 MA's), (38, 17548), (67, 17704), (68, 17710), (71, 17719), (81, 17785), (93, 17869), (109, 17971), (115, 18013),

Gene: Trypo_23 Start: 17804, Stop: 18322, Start Num: 28

Candidate Starts for Trypo_23:

(2, 17198), (6, 17249), (7, 17303), (9, 17318), (10, 17327), (16, 17444), (18, 17486), (20, 17531), (26, 17750), (Start: 28 @17804 has 335 MA's), (38, 17837), (67, 17993), (68, 17999), (71, 18008), (81, 18074), (93, 18158), (109, 18260), (115, 18302),

Gene: Tydolla_24 Start: 19214, Stop: 19735, Start Num: 28

Candidate Starts for Tydolla_24:

(Start: 28 @19214 has 335 MA's), (37, 19244), (43, 19262), (47, 19274), (61, 19379), (81, 19502), (83, 19508), (85, 19517), (93, 19586), (104, 19643),

Gene: TyrionL_22 Start: 17368, Stop: 17886, Start Num: 28

Candidate Starts for TyrionL_22:

(6, 16813), (7, 16867), (9, 16882), (10, 16891), (16, 17008), (18, 17050), (20, 17095), (26, 17314), (Start: 28 @17368 has 335 MA's), (38, 17401), (67, 17557), (68, 17563), (71, 17572), (81, 17638), (93, 17722), (109, 17824), (115, 17866),

Gene: UAch1_23 Start: 17824, Stop: 18342, Start Num: 28

Candidate Starts for UAch1_23:

(26, 17770), (Start: 28 @17824 has 335 MA's), (38, 17857), (67, 18013), (68, 18019), (71, 18028), (81, 18094), (93, 18178), (109, 18280), (115, 18322),

Gene: UncleHowie_23 Start: 17514, Stop: 18032, Start Num: 28

Candidate Starts for UncleHowie_23:

(26, 17460), (Start: 28 @17514 has 335 MA's), (38, 17547), (67, 17703), (68, 17709), (71, 17718), (81, 17784), (93, 17868), (109, 17970), (115, 18012),

Gene: Usavi_23 Start: 17815, Stop: 18333, Start Num: 28

Candidate Starts for Usavi_23:

(26, 17761), (Start: 28 @17815 has 335 MA's), (38, 17848), (67, 18004), (68, 18010), (71, 18019), (81, 18085), (93, 18169), (109, 18271), (115, 18313),

Gene: Vaishali24_22 Start: 17468, Stop: 17986, Start Num: 28

Candidate Starts for Vaishali24_22:

(26, 17414), (Start: 28 @17468 has 335 MA's), (38, 17501), (67, 17657), (68, 17663), (71, 17672), (81, 17738), (93, 17822), (109, 17924), (115, 17966),

Gene: Valjean_23 Start: 17807, Stop: 18325, Start Num: 28

Candidate Starts for Valjean_23:

(26, 17753), (Start: 28 @17807 has 335 MA's), (38, 17840), (67, 17996), (68, 18002), (71, 18011), (81, 18077), (93, 18161), (109, 18263), (115, 18305),

Gene: Vaticameos_23 Start: 17505, Stop: 18023, Start Num: 28

Candidate Starts for Vaticameos_23:

(26, 17451), (Start: 28 @17505 has 335 MA's), (38, 17538), (67, 17694), (68, 17700), (71, 17709), (81, 17775), (93, 17859), (109, 17961), (115, 18003),

Gene: Veritas_22 Start: 17354, Stop: 17872, Start Num: 28

Candidate Starts for Veritas_22:

(2, 16748), (6, 16799), (7, 16853), (9, 16868), (10, 16877), (16, 16994), (18, 17036), (20, 17081), (26, 17300), (Start: 28 @17354 has 335 MA's), (38, 17387), (67, 17543), (68, 17549), (71, 17558), (81, 17624), (93, 17708), (109, 17810), (115, 17852),

Gene: Vincenzo_22 Start: 19205, Stop: 19732, Start Num: 28

Candidate Starts for Vincenzo_22:

(Start: 28 @19205 has 335 MA's), (35, 19235), (48, 19292), (51, 19304), (68, 19409), (71, 19418), (74, 19457), (81, 19484), (84, 19493), (86, 19505), (88, 19520), (93, 19568), (94, 19574), (106, 19652),

Gene: VioletZ_21 Start: 18491, Stop: 19021, Start Num: 28

Candidate Starts for VioletZ_21:

(8, 18002), (Start: 24 @18323 has 1 MA's), (Start: 28 @18491 has 335 MA's), (35, 18521), (51, 18590), (68, 18695), (72, 18725), (74, 18743), (82, 18776), (84, 18782), (86, 18794), (94, 18863), (106, 18941),

Gene: Virapocalypse_23 Start: 17798, Stop: 18316, Start Num: 28

Candidate Starts for Virapocalypse_23:

(6, 17243), (7, 17297), (9, 17312), (10, 17321), (16, 17438), (18, 17480), (20, 17525), (26, 17744), (Start: 28 @17798 has 335 MA's), (38, 17831), (67, 17987), (68, 17993), (71, 18002), (81, 18068), (93, 18152), (109, 18254), (115, 18296),

Gene: Virgeve_22 Start: 17520, Stop: 18038, Start Num: 28

Candidate Starts for Virgeve_22:

(2, 16914), (6, 16965), (7, 17019), (9, 17034), (10, 17043), (16, 17160), (18, 17202), (20, 17247), (26, 17466), (Start: 28 @17520 has 335 MA's), (38, 17553), (67, 17709), (68, 17715), (71, 17724), (81, 17790), (93, 17874), (109, 17976), (115, 18018),

Gene: Vista_23 Start: 17812, Stop: 18330, Start Num: 28

Candidate Starts for Vista_23:

(6, 17257), (7, 17311), (9, 17326), (10, 17335), (16, 17452), (18, 17494), (20, 17539), (26, 17758), (Start: 28 @17812 has 335 MA's), (38, 17845), (67, 18001), (68, 18007), (71, 18016), (81, 18082), (93, 18166), (109, 18268), (115, 18310),

Gene: Vivaldi_23 Start: 17842, Stop: 18360, Start Num: 28

Candidate Starts for Vivaldi_23:

(26, 17788), (Start: 28 @17842 has 335 MA's), (38, 17875), (67, 18031), (68, 18037), (71, 18046), (81, 18112), (93, 18196), (109, 18298), (115, 18340),

Gene: Vortex_23 Start: 17522, Stop: 18040, Start Num: 28

Candidate Starts for Vortex_23:

(26, 17468), (Start: 28 @17522 has 335 MA's), (38, 17555), (67, 17711), (68, 17717), (71, 17726), (81, 17792), (93, 17876), (109, 17978), (115, 18020),

Gene: Waleliano_21 Start: 18436, Stop: 18966, Start Num: 28

Candidate Starts for Waleliano_21:

(Start: 24 @18268 has 1 MA's), (Start: 28 @18436 has 335 MA's), (35, 18466), (51, 18535), (68, 18640), (72, 18670), (74, 18688), (82, 18721), (84, 18727), (86, 18739), (88, 18754), (94, 18808), (106, 18886),

Gene: Wallhey_22 Start: 17372, Stop: 17890, Start Num: 28

Candidate Starts for Wallhey_22:

(2, 16766), (6, 16817), (7, 16871), (9, 16886), (10, 16895), (16, 17012), (18, 17054), (20, 17099), (26, 17318), (Start: 28 @17372 has 335 MA's), (38, 17405), (67, 17561), (68, 17567), (71, 17576), (81, 17642), (93, 17726), (109, 17828), (115, 17870),

Gene: Waterdiva_23 Start: 17807, Stop: 18325, Start Num: 28

Candidate Starts for Waterdiva_23:

(26, 17753), (Start: 28 @17807 has 335 MA's), (38, 17840), (67, 17996), (68, 18002), (71, 18011), (81, 18077), (93, 18161), (109, 18263), (115, 18305),

Gene: Weher20_23 Start: 17800, Stop: 18318, Start Num: 28

Candidate Starts for Weher20_23:

(2, 17194), (6, 17245), (7, 17299), (9, 17314), (10, 17323), (16, 17440), (18, 17482), (20, 17527), (26, 17746), (Start: 28 @17800 has 335 MA's), (38, 17833), (67, 17989), (68, 17995), (71, 18004), (81, 18070), (93, 18154), (109, 18256), (115, 18298),

Gene: West99_25 Start: 20032, Stop: 20592, Start Num: 27

Candidate Starts for West99_25:

(Start: 25 @19870 has 1 MA's), (Start: 27 @20032 has 44 MA's), (Start: 30 @20050 has 10 MA's), (31, 20053), (38, 20080), (42, 20092), (55, 20164), (62, 20221), (68, 20257), (73, 20308), (79, 20341), (100, 20488), (114, 20566),

Gene: Windsor_22 Start: 17475, Stop: 17993, Start Num: 28

Candidate Starts for Windsor_22:

(6, 16920), (7, 16974), (9, 16989), (10, 16998), (16, 17115), (18, 17157), (20, 17202), (26, 17421), (Start: 28 @17475 has 335 MA's), (38, 17508), (67, 17664), (68, 17670), (71, 17679), (81, 17745), (93, 17829), (109, 17931), (115, 17973),

Gene: Wooper_22 Start: 17725, Stop: 18264, Start Num: 27

Candidate Starts for Wooper_22:

(26, 17674), (Start: 27 @17725 has 44 MA's), (45, 17791), (71, 17947), (78, 18007), (81, 18016), (86, 18037), (97, 18136), (101, 18157), (111, 18226), (113, 18235),

Gene: Xavier_22 Start: 17525, Stop: 18043, Start Num: 28

Candidate Starts for Xavier_22:

(6, 16970), (7, 17024), (9, 17039), (10, 17048), (16, 17165), (18, 17207), (20, 17252), (26, 17471), (Start: 28 @17525 has 335 MA's), (38, 17558), (67, 17714), (68, 17720), (71, 17729), (81, 17795), (93, 17879), (109, 17981), (115, 18023),

Gene: Yago84_20 Start: 16628, Stop: 17179, Start Num: 27

Candidate Starts for Yago84_20:

(23, 16445), (Start: 25 @16463 has 1 MA's), (26, 16577), (Start: 27 @16628 has 44 MA's), (Start: 28 @16631 has 335 MA's), (45, 16697), (82, 16925), (86, 16943), (88, 16958), (109, 17114), (111, 17138), (113, 17147),

Gene: Yahalom_24 Start: 18486, Stop: 19007, Start Num: 28

Candidate Starts for Yahalom_24:

(Start: 28 @18486 has 335 MA's), (37, 18516), (61, 18651), (81, 18774), (83, 18780), (85, 18789), (93, 18858), (104, 18915),

Gene: Yinz_24 Start: 18515, Stop: 19036, Start Num: 28

Candidate Starts for Yinz_24:

(Start: 28 @18515 has 335 MA's), (37, 18545), (43, 18563), (47, 18575), (61, 18680), (81, 18803), (83, 18809), (85, 18818), (93, 18887), (104, 18944),

Gene: Yoshand_23 Start: 17814, Stop: 18332, Start Num: 28

Candidate Starts for Yoshand_23:

(6, 17259), (7, 17313), (9, 17328), (10, 17337), (16, 17454), (18, 17496), (20, 17541), (26, 17760), (Start: 28 @17814 has 335 MA's), (38, 17847), (67, 18003), (68, 18009), (71, 18018), (81, 18084), (93, 18168), (109, 18270), (115, 18312),

Gene: YouGoGlencoco_23 Start: 17803, Stop: 18321, Start Num: 28

Candidate Starts for YouGoGlencoco_23:

(6, 17248), (7, 17302), (9, 17317), (10, 17326), (16, 17443), (18, 17485), (20, 17530), (26, 17749), (Start: 28 @17803 has 335 MA's), (38, 17836), (67, 17992), (68, 17998), (71, 18007), (81, 18073), (93,

18157), (109, 18259), (115, 18301),

Gene: Zaider_24 Start: 18039, Stop: 18557, Start Num: 28

Candidate Starts for Zaider_24:

(6, 17484), (7, 17538), (9, 17553), (10, 17562), (16, 17679), (18, 17721), (20, 17766), (26, 17985),
(Start: 28 @18039 has 335 MA's), (38, 18072), (67, 18228), (68, 18234), (71, 18243), (81, 18309), (93,
18393), (109, 18495), (115, 18537),

Gene: Zelda_23 Start: 17808, Stop: 18326, Start Num: 28

Candidate Starts for Zelda_23:

(26, 17754), (Start: 28 @17808 has 335 MA's), (38, 17841), (67, 17997), (68, 18003), (71, 18012), (81,
18078), (93, 18162), (109, 18264), (115, 18306),

Gene: Zemanar_22 Start: 18436, Stop: 18966, Start Num: 28

Candidate Starts for Zemanar_22:

(Start: 24 @18268 has 1 MA's), (Start: 28 @18436 has 335 MA's), (35, 18466), (51, 18535), (68,
18640), (72, 18670), (74, 18688), (82, 18721), (84, 18727), (86, 18739), (88, 18754), (94, 18808),
(106, 18886),

Gene: Zenteno07_27 Start: 18252, Stop: 18770, Start Num: 28

Candidate Starts for Zenteno07_27:

(Start: 28 @18252 has 335 MA's), (41, 18294), (51, 18345), (53, 18357), (55, 18366), (58, 18396), (70,
18450), (71, 18453), (81, 18522), (85, 18537), (88, 18558),

Gene: Zonia_23 Start: 17822, Stop: 18340, Start Num: 28

Candidate Starts for Zonia_23:

(2, 17216), (6, 17267), (7, 17321), (9, 17336), (10, 17345), (16, 17462), (18, 17504), (20, 17549), (26,
17768), (Start: 28 @17822 has 335 MA's), (38, 17855), (67, 18011), (68, 18017), (71, 18026), (81,
18092), (93, 18176), (109, 18278), (115, 18320),