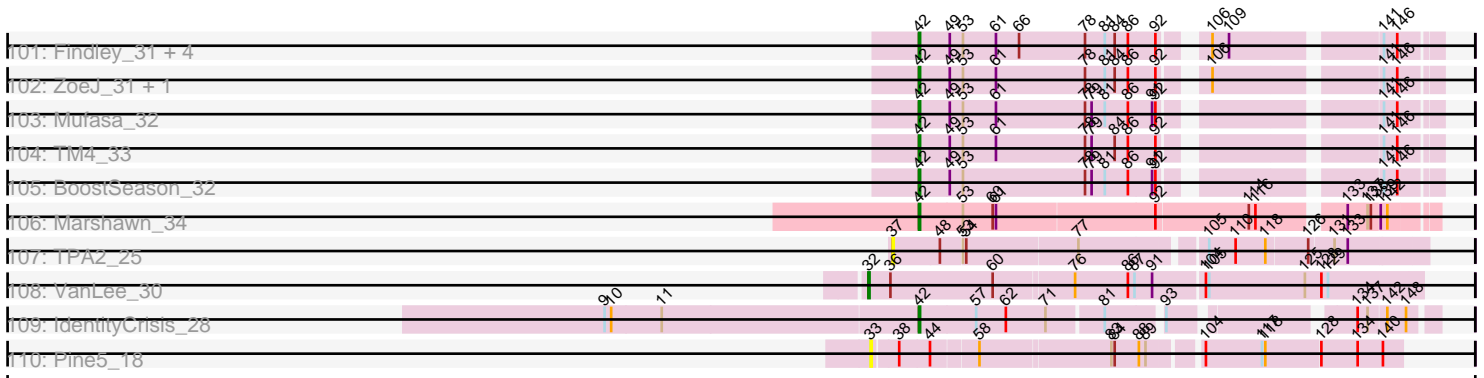


Pham 202623



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 202623 Report

This analysis was run 01/18/25 on database version 583.

Pham number 202623 has 287 members, 24 are drafts.

Phages represented in each track:

- Track 1 : Drake94_29, Poompha_29, PeaceMeal1_29, KittenMittens_29, Severus_29
- Track 2 : DontArgue_29
- Track 3 : Trike_28
- Track 4 : Goose_30, Chupacabra_30
- Track 5 : Rowdy_34, DustyMartin_34, Shapes_34
- Track 6 : Twister_30, Kristoff_31, Rebeuca_31, Edison31_30, WalterMcMickey_30
- Track 7 : RhynO_31
- Track 8 : OKCentral2016_30
- Track 9 : Eaglepride_31
- Track 10 : Topanga_30
- Track 11 : Refuge_33
- Track 12 : Steamy_31
- Track 13 : ArcherNM_32
- Track 14 : Changeling_32
- Track 15 : Herbertwm_27
- Track 16 : IronMan_32
- Track 17 : Bactobuster_31
- Track 18 : Jaan_33, Landor_31, Phaded_33
- Track 19 : Loser_33
- Track 20 : RedRock_33
- Track 21 : AnnaL29_33
- Track 22 : Spino_29, Bruiser_28, Alberto7_30, Roosevelt_29, Broseidon_29, Connomayer_29, Koreni_28, Ruin_29, Florean_29, Lorenzo_29, Wizard007_29, Eapen_29, Wilbur_29, Bartimeaus_29, Chaph_29, CentreCat_29, Bombshell_29, Druantia_29, OKaNui_30, Sparxx_29, Albee_29, Flux_29, Baby16_29, Citius_29, Blackmoor_29, ChampagnePapi_30, Maverick_29, LittleB_29, Medusa_29, Wander_29, Romney_29, Iceman_30, Clarenza_29, Kremtemulon_29, Sabertooth_29, PeterPeter_29, Shaka_29, Pipcraft_29, Millski_28, TiroTheta9_29, Dhanush_29, Peaches_29, Burger_28, Melvin_29, Eris_28, HamSlice_28, YoSam321_29, TinaFeyge_29, TroyPia_29, JoongJeon_29, Lemur_29
- Track 23 : Mundrea_29
- Track 24 : Gadost_29, NotAPhaseMom_29, Relief_29, Houdini22_29
- Track 25 : Palestino_28, MeeZee_29, Scamp_29, Commander_29, ICleared_29, Nebs_29, Maxo_29, Polymorphads_29, BellusTerra_29, Morrow_29, Eurydice_29, BubbleTrouble_29, Ohfah_29, Pumbaa_29
- Track 26 : SheldonCooper_30

- Track 27 : Camperdownii_28, Kyee_29, KFPoly_29, Thanksgivukkah_29, Kratark_29
- Track 28 : JetBlade_29, NorthStar_29, Annyong_29, Deano_29, Kingmustik0402_29, TygerBlood_29, Eros_29, Koan_28, SeniorClean_28, Lunsford_30
- Track 29 : Taquarus_29, Phelipe_29, CocoaBerry_29, Nemo27_29, Caelakin_29, Holli_29, LappelDuVide_29, Funston_29, Avle17_29, Phacado_29, Mazhar510_29
- Track 30 : Skipitt_29, Jaykayelowell_29
- Track 31 : Datway_29, Morpher26_29, Perplexer_29, Backyardigan_29, Xena_29, PetiteSangsue_29, Badger_29, Wile_29, Bumblebee11_29, Katalie136_29, AbbysRanger_29, Cici_29, Achebe_28
- Track 32 : LeoAvram_29, Kampy_29
- Track 33 : Stasia_30
- Track 34 : Cerulean_30, Eagle_28, Obama12_30, BangNhom_29, Happiness_29, LHTSCC_30
- Track 35 : Arturo_28
- Track 36 : AvatarAhPeg_30
- Track 37 : Stink_30
- Track 38 : LittleGuy_29, Nyxis_29
- Track 39 : Cindaradix_28
- Track 40 : Tinybot_28, Rosa24_28, Ulysses_28, Iracema64_30, DirtyDunning_29, Phighter1804_29
- Track 41 : Phontbonne_29
- Track 42 : Shygu2_29
- Track 43 : LochMonster_29
- Track 44 : Cintron_29
- Track 45 : Abdiel_28
- Track 46 : Noelle_29
- Track 47 : Miramae_29
- Track 48 : Huxley_29
- Track 49 : HINdeR_29
- Track 50 : Timshel_30, DroogsArmy_30
- Track 51 : Farewell_29, Sparky_29
- Track 52 : JustASigh_28
- Track 53 : GTE5_42
- Track 54 : Flapper_55
- Track 55 : Dalilpop_55
- Track 56 : GRU1_40
- Track 57 : Turuncu_55
- Track 58 : SuperSulley_52, Bonum_54, Kabluna_54, Buggaboo_52, NosilaM_54
- Track 59 : Commandaria_51
- Track 60 : Outis_52, StarStruck_52, MerCougar_52
- Track 61 : GrootJr_52, NovumRegina_50
- Track 62 : GTE8_39
- Track 63 : Phomeo_49
- Track 64 : KidneyBean_50, Jifall16_49, Kurt_50, Arti_50, Emianna_50, Foxboro_51
- Track 65 : NatB6_50, Wheezy_50
- Track 66 : Tracker_50
- Track 67 : Ennea_57, Float294_53
- Track 68 : Patio_54
- Track 69 : Skysand_53
- Track 70 : Lollipop1437_56
- Track 71 : RedRaider_58

- Track 72 : BiPauneto_52, Sukkupi_51, Yndexa_51
- Track 73 : WhoseManz_51
- Track 74 : IDyn_51
- Track 75 : Marietta_52
- Track 76 : NadineRae_50
- Track 77 : HubbaBubba_48
- Track 78 : Pleakley_58, Fury_58
- Track 79 : Scuba_59
- Track 80 : Polly_22
- Track 81 : BatStarr_23, Bialota_23, Nymphadora_23, Ohgeesy_23, Hugley_23, Bosnia_23, Zirinka_23, TimTam_23, Madeline_23, Herod_23, Eviarto_23
- Track 82 : ThankyouJordi_22, WelcomeAyanna_22
- Track 83 : Dextert_41
- Track 84 : Chickadee_40, RoadKill_38, GTE6_40, Tiamoceli_41, EdmundFerry_39, Twonlo_38
- Track 85 : Kwekel_40
- Track 86 : Gmala1_30
- Track 87 : GordDuk1_30, GordTnk2_30
- Track 88 : Dogfish_25
- Track 89 : Vordorf_26
- Track 90 : Nyceirae_27
- Track 91 : Ewald_26
- Track 92 : Meyran_25
- Track 93 : Cborch11_37, Beckerton_36, Konstantine_41, Oaker_36, Megatron06_38, Thumb_36, Damien_36
- Track 94 : Phreeze_36
- Track 95 : Predator_38
- Track 96 : Puissant_35
- Track 97 : Sbash_28
- Track 98 : Chris_32
- Track 99 : LeMond_32, KiSi_32, Scarlett_32, Oscar_32
- Track 100 : MarkPheW_33
- Track 101 : Findley_31, DismalStressor_31, Strobilo_31, Marcoliusprime_31, DismalFunk_31
- Track 102 : ZoeJ_31, Milly_31
- Track 103 : Mufasa_32
- Track 104 : TM4_33
- Track 105 : BoostSeason_32
- Track 106 : Marshawn_34
- Track 107 : TPA2_25
- Track 108 : VanLee_30
- Track 109 : IdentityCrisis_28
- Track 110 : Pine5_18

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

The start number called the most often in the published annotations is 42, it was called in 179 of the 263 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AbbysRanger_29, Abdiel_28, Achebe_28, Albee_29, Alberto7_30, AnnaL29_33, ArcherNM_32, Arturo_28, AvatarAhPeg_30, Avle17_29, Baby16_29, Backyardigan_29, Bactobuster_31, Badger_29, BangNhom_29, Bartimeaus_29, Beckerton_36, BellusTerra_29, Blackmoor_29, Bombshell_29, BoostSeason_32, Broseidon_29, Bruiser_28, BubbleTrouble_29, Bumblebee11_29, Burger_28, Caelakin_29, Camperdownii_28, Cborch11_37, CentreCat_29, Cerulean_30, ChampagnePapi_30, Changeling_32, Chaph_29, Chris_32, Chupacabra_30, Cici_29, Cindaradix_28, Citius_29, Clarenza_29, Cocoaberry_29, Commander_29, Connomayer_29, Damien_36, Datway_29, Dhanush_29, DirtyDunning_29, DismalFunk_31, DismalStressor_31, DontArgue_29, Drake94_29, DroogsArmy_30, Druantia_29, DustyMartin_34, Eagle_28, Eaglepride_31, Eapen_29, Edison31_30, Eris_28, Eurydice_29, Farewell_29, Findley_31, Florean_29, Flux_29, Funston_29, Goose_30, HINdeR_29, HamSlice_28, Happiness_29, Herbertwm_27, Holli_29, ICleared_29, Iceman_30, IdentityCrisis_28, Iracema64_30, IronMan_32, Jaan_33, JoongJeon_29, KFPoly_29, Katalie136_29, KiSi_32, KittenMittens_29, Konstantine_41, Koreni_28, Kratark_29, Kremtemulon_29, Kristoff_31, Kyee_29, LHTSCC_30, Landor_31, LappelDuVide_29, LeMond_32, Lemur_29, LittleB_29, LittleGuy_29, Lorenzo_29, Loser_33, Marcoliusprime_31, MarkPhew_33, Marshawn_34, Maverick_29, Maxo_29, Mazhar510_29, Medusa_29, MeeZee_29, Megatron06_38, Melvin_29, Millski_28, Milly_31, Miramae_29, Morpher26_29, Morrow_29, Mufasa_32, Mundrea_29, Nebs_29, Nemo27_29, Noelle_29, Nyxis_29, OKaNui_30, Oaker_36, Obama12_30, Ohfah_29, Oscar_32, Palestino_28, PeaceMeal1_29, Peaches_29, Perplexer_29, PeterPeter_29, PetiteSangsue_29, Phacado_29, Phaded_33, Phelipe_29, Phighter1804_29, Phontbonne_29, Phreeze_36, Pipcraft_29, Polymorphads_29, Poompha_29, Predator_38, Puissant_35, Pumbaa_29, Rebeuca_31, RedRock_33, Refuge_33, RhynO_31, Romney_29, Roosevelt_29, Rosa24_28, Rowdy_34, Ruin_29, Sabertooth_29, Sbash_28, Scamp_29, Scarlett_32, Severus_29, Shaka_29, Shapes_34, Shygu2_29, Sparky_29, Sparxx_29, Spino_29, Steamy_31, Stink_30, Strobilo_31, TM4_33, Taquarus_29, Thanksgivukkah_29, Thumb_36, Timshel_30, TinaFeyge_29, Tinybot_28, TiroTheta9_29, Topanga_30, Trike_28, TroyPia_29, Twister_30, Ulysses_28, WalterMcMickey_30, Wander_29, Wilbur_29, Wile_29, Wizard007_29, Xena_29, YoSam321_29, ZoeJ_31,

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

- Annyong_29, Cintron_29, Deano_29, Eros_29, Gadost_29, Houdini22_29, Huxley_29, Jaykayelowell_29, JetBlade_29, Kampy_29, Kingmustik0402_29, Koan_28, LeoAvram_29, LochMonster_29, Lunsford_30, NorthStar_29, NotAPhaseMom_29, OKCentral2016_30, Relief_29, SeniorClean_28, SheldonCooper_30, Skipitt_29, Stasia_30, TygerBlood_29,

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

- Arti_50, BatStarr_23, BiPauneto_52, Bialota_23, Bonum_54, Bosnia_23, Buggaboo_52, Chickadee_40, Commandaria_51, Dalilpop_55, Dextert_41, Dogfish_25, EdmundFerry_39, Emianna_50, Ennea_57, Eviarto_23, Ewald_26, Flapper_55, Float294_53, Foxboro_51, Fury_58, GRU1_40, GTE5_42, GTE6_40, GTE8_39, Gmala1_30, GordDuk1_30, GordTnk2_30, GrootJr_52, Herod_23, HubbaBubba_48, Hugley_23, IDyn_51, Jifall16_49, JustASigh_28, Kabluna_54, KidneyBean_50, Kurt_50, Kwekel_40, Lollipop1437_56, Madeline_23, Marietta_52, MerCougar_52, Meyran_25, NadineRae_50, NatB6_50, NosilaM_54, NovumRegina_50, Nyceirae_27, Nymphadora_23, Ohgeesy_23, Outis_52, Patio_54, Phomeo_49, Pine5_18, Pleakley_58, Polly_22, RedRaider_58, RoadKill_38, Scuba_59, Skysand_53, StarStruck_52, Sukkupi_51, SuperSulley_52, TPA2_25,

ThankyouJordi_22, Tiamoceli_41, TimTam_23, Tracker_50, Turuncu_55, Twonlo_38, VanLee_30, Vordorf_26, WelcomeAyanna_22, Wheezy_50, WhoseManz_51, Yndexa_51, Zirinka_23,

Summary by start number:

Start 18:

- Found in 1 of 287 (0.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GTE5_42 (CR1),

Start 26:

- Found in 3 of 287 (1.0%) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Scuba_59 (CR5),

Start 29:

- Found in 3 of 287 (1.0%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gmala1_30 (DF1), GordDuk1_30 (DF1), GordTnk2_30 (DF1),

Start 31:

- Found in 32 of 287 (11.1%) of genes in pham
- Manual Annotations of this start: 8 of 263
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Bonum_54 (CR2), Buggaboo_52 (CR2), Kabluna_54 (CR2), MerCougar_52 (CR2), NosilaM_54 (CR2), Outis_52 (CR2), StarStruck_52 (CR2), SuperSulley_52 (CR2),

Start 32:

- Found in 1 of 287 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 263
- Called 100.0% of time when present
- Phage (with cluster) where this start called: VanLee_30 (singleton),

Start 33:

- Found in 20 of 287 (7.0%) of genes in pham
- Manual Annotations of this start: 17 of 263
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BatStarr_23 (CZ1), Bialota_23 (CZ1), Bosnia_23 (CZ1), Dogfish_25 (DT), Eviarto_23 (CZ1), Ewald_26 (DT), Herod_23 (CZ1), Hugley_23 (CZ1), Madeline_23 (CZ1), Meyran_25 (DT), Nyceirae_27 (DT), Nymphadora_23 (CZ1), Ohgeesy_23 (CZ), Pine5_18 (singleton), Polly_22 (CZ1), ThankyouJordi_22 (CZ1), TimTam_23 (CZ1), Vordorf_26 (DT), WelcomeAyanna_22 (CZ1), Zirinka_23 (CZ1),

Start 34:

- Found in 36 of 287 (12.5%) of genes in pham
- Manual Annotations of this start: 29 of 263

- Called 88.9% of time when present
- Phage (with cluster) where this start called: Arti_50 (CR2), BiPauneto_52 (CR4), Commandaria_51 (CR2), Dalilpop_55 (CR1), Emianna_50 (CR2), Ennea_57 (CR3), Flapper_55 (CR1), Float294_53 (CR3), Foxboro_51 (CR2), Fury_58 (CR5), GRU1_40 (CR1), GrootJr_52 (CR2), HubbaBubba_48 (CR4), IDyn_51 (CR4), Jifall16_49 (CR2), KidneyBean_50 (CR2), Kurt_50 (CR2), Lollipop1437_56 (CR3), Marietta_52 (CR4), NadineRae_50 (CR4), NatB6_50 (CR2), NovumRegina_50 (CR2), Patio_54 (CR3), Pleakley_58 (CR5), RedRaider_58 (CR3), Skysand_53 (CR3), Sukkupi_51 (CR4), Tracker_50 (CR2), Turuncu_55 (CR1), Wheezy_50 (CR2), WhoseManz_51 (CR4), Yndexa_51 (CR4),

Start 37:

- Found in 9 of 287 (3.1%) of genes in pham
- Manual Annotations of this start: 6 of 263
- Called 88.9% of time when present
- Phage (with cluster) where this start called: Chickadee_40 (DE3), Dexdert_41 (DE3), EdmundFerry_39 (DE3), GTE6_40 (DE3), RoadKill_38 (DE3), TPA2_25 (singleton), Tiamoceli_41 (DE3), Twonlo_38 (DE3),

Start 41:

- Found in 1 of 287 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 263
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JustASigh_28 (AH),

Start 42:

- Found in 209 of 287 (72.8%) of genes in pham
- Manual Annotations of this start: 179 of 263
- Called 88.5% of time when present
- Phage (with cluster) where this start called: AbbysRanger_29 (A4), Abdiel_28 (A4), Achebe_28 (A4), Albee_29 (A4), Alberto7_30 (A4), AnnaL29_33 (A2), ArcherNM_32 (A2), Arturo_28 (A4), AvatarAhPeg_30 (A4), Avle17_29 (A4), Baby16_29 (A4), Backyardigan_29 (A4), Bactobuster_31 (A2), Badger_29 (A4), BangNhom_29 (A4), Bartimeaus_29 (A4), Beckerton_36 (H1), BellusTerra_29 (A4), Blackmoor_29 (A4), Bombshell_29 (A4), BoostSeason_32 (K2), Broseidon_29 (A4), Bruiser_28 (A4), BubbleTrouble_29 (A4), Bumblebee11_29 (A4), Burger_28 (A4), Caelakin_29 (A4), Camperdownii_28 (A4), Cborch11_37 (H1), CentreCat_29 (A4), Cerulean_30 (A4), ChampagnePapi_30 (A4), Changeling_32 (A2), Chaph_29 (A4), Chris_32 (K1), Chupacabra_30 (A10), Cici_29 (A4), Cindaradix_28 (A4), Citius_29 (A4), Clarenza_29 (A4), Cocoaberry_29 (A4), Commander_29 (A4), Connomayer_29 (A4), Damien_36 (H1), Datway_29 (A4), Dhanush_29 (A4), DirtyDunning_29 (A4), DismalFunk_31 (K2), DismalStressor_31 (K2), DontArgue_29 (A10), Drake94_29 (A10), DroogsArmy_30 (A7), Druantia_29 (A4), DustyMartin_34 (A10), Eagle_28 (A4), Eaglepride_31 (A10), Eapen_29 (A4), Edison31_30 (A10), Eris_28 (A4), Eurydice_29 (A4), Farewell_29 (AF), Findley_31 (K2), Florean_29 (A4), Flux_29 (A4), Funston_29 (A4), Goose_30 (A10), HINdeR_29 (A7), HamSlice_28 (A4), Happiness_29 (A4), Herbertwm_27 (A2), Holli_29 (A4), ICleared_29 (A4), Iceman_30 (A4), IdentityCrisis_28 (singleton), Iracema64_30 (A4), IronMan_32 (A2), Jaan_33 (A2), JoongJeon_29 (A4), KFPoly_29 (A4), Katalie136_29 (A4), KiSi_32 (K1), KittenMittens_29 (A10), Konstantine_41 (H1), Koreni_28 (A4), Kratark_29 (A4), Kremtemulon_29 (A4), Kristoff_31 (A10), Kyee_29 (A4), LHTSCC_30 (A4), Landor_31 (A2), LappelDuVide_29 (A4), LeMond_32 (K1), Lemur_29 (A4), LittleB_29 (A4), LittleGuy_29 (A4), Lorenzo_29 (A4), Loser_33 (A2), Marcoliusprime_31 (K2),

MarkPhew_33 (K1), Marshawn_34 (K6), Maverick_29 (A4), Maxo_29 (A4), Mazhar510_29 (A4), Medusa_29 (A4), MeeZee_29 (A4), Megatron06_38 (H1), Melvin_29 (A4), Millski_28 (A4), Milly_31 (K2), Miramae_29 (A4), Morpher26_29 (A4), Morrow_29 (A4), Mufasa_32 (K2), Mundrea_29 (A4), Nebs_29 (A4), Nemo27_29 (A4), Noelle_29 (A4), Nyxis_29 (A4), OKaNui_30 (A4), Oaker_36 (H1), Obama12_30 (A4), Ohfah_29 (A4), Oscar_32 (K1), Palestino_28 (A4), PeaceMeal1_29 (A10), Peaches_29 (A4), Perplexer_29 (A4), PeterPeter_29 (A4), PetiteSangsue_29 (A4), Phacado_29 (A4), Phaded_33 (A2), Phelipe_29 (A4), Phighter1804_29 (A4), Phontbonne_29 (A4), Phreeze_36 (H1), Pipcraft_29 (A4), Polymorphads_29 (A4), Poompha_29 (A10), Predator_38 (H1), Puissant_35 (H1), Pumbaa_29 (A4), Rebeuca_31 (A10), RedRock_33 (A2), Refuge_33 (A12), RhynO_31 (A10), Romney_29 (A4), Roosevelt_29 (A4), Rosa24_28 (A4), Rowdy_34 (A10), Ruin_29 (A4), Sabertooth_29 (A4), Sbash_28 (I2), Scamp_29 (A4), Scarlett_32 (K1), Severus_29 (A10), Shaka_29 (A4), Shapes_34 (A10), Shygu2_29 (A4), Sparky_29 (AF), Sparxx_29 (A4), Spino_29 (A4), Steamy_31 (A12), Stink_30 (A4), Strobilo_31 (K2), TM4_33 (K2), Taquarus_29 (A4), Thanksgivukkah_29 (A4), Thumb_36 (H1), Timshel_30 (A7), TinaFeyge_29 (A4), Tinybot_28 (A4), TiroTheta9_29 (A4), Topanga_30 (A10), Trike_28 (A10), TroyPia_29 (A4), Twister_30 (A10), Ulysses_28 (A4), WalterMcMickey_30 (A10), Wander_29 (A4), Wilbur_29 (A4), Wile_29 (A4), Wizard007_29 (A4), Xena_29 (A4), YoSam321_29 (A4), ZoeJ_31 (K2),

Start 43:

- Found in 8 of 287 (2.8%) of genes in pham
- Manual Annotations of this start: 1 of 263
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Kwekel_40 (DE3),

Start 50:

- Found in 35 of 287 (12.2%) of genes in pham
- No Manual Annotations of this start.
- Called 5.7% of time when present
- Phage (with cluster) where this start called: GTE8_39 (CR2), Phomeo_49 (CR2),

Start 53:

- Found in 149 of 287 (51.9%) of genes in pham
- Manual Annotations of this start: 4 of 263
- Called 3.4% of time when present
- Phage (with cluster) where this start called: Cintron_29 (A4), Huxley_29 (A4), Jaykayelowell_29 (A4), LochMonster_29 (A4), Skipitt_29 (A4),

Start 57:

- Found in 150 of 287 (52.3%) of genes in pham
- Manual Annotations of this start: 14 of 263
- Called 10.7% of time when present
- Phage (with cluster) where this start called: Annyong_29 (A4), Deano_29 (A4), Eros_29 (A4), Gadost_29 (A4), Houdini22_29 (A4), JetBlade_29 (A4), Kingmustik0402_29 (A4), Koan_28 (A4), Lunsford_30 (A4), NorthStar_29 (A4), NotAPhaseMom_29 (A4), Relief_29 (A4), SenorClean_28 (A4), SheldonCooper_30 (A4), Stasia_30 (A4), TygerBlood_29 (A4),

Start 60:

- Found in 43 of 287 (15.0%) of genes in pham
- Manual Annotations of this start: 1 of 263

- Called 2.3% of time when present
- Phage (with cluster) where this start called: OKCentral2016_30 (A10),

Start 63:

- Found in 136 of 287 (47.4%) of genes in pham
- Manual Annotations of this start: 2 of 263
- Called 1.5% of time when present
- Phage (with cluster) where this start called: Kampy_29 (A4), LeoAvram_29 (A4),

Summary by clusters:

There are 23 clusters represented in this pham: singleton, H1, CZ1, K2, K1, K6, DT, A10, A12, I2, DF1, A2, A4, A7, AF, AH, CZ, CR2, CR3, CR1, CR4, CR5, DE3,

Info for manual annotations of cluster A10:

- Start number 42 was manually annotated 16 times for cluster A10.
- Start number 60 was manually annotated 1 time for cluster A10.

Info for manual annotations of cluster A12:

- Start number 42 was manually annotated 2 times for cluster A12.

Info for manual annotations of cluster A2:

- Start number 42 was manually annotated 11 times for cluster A2.

Info for manual annotations of cluster A4:

- Start number 42 was manually annotated 117 times for cluster A4.
- Start number 53 was manually annotated 4 times for cluster A4.
- Start number 57 was manually annotated 14 times for cluster A4.
- Start number 63 was manually annotated 2 times for cluster A4.

Info for manual annotations of cluster A7:

- Start number 42 was manually annotated 3 times for cluster A7.

Info for manual annotations of cluster AF:

- Start number 42 was manually annotated 2 times for cluster AF.

Info for manual annotations of cluster AH:

- Start number 41 was manually annotated 1 time for cluster AH.

Info for manual annotations of cluster CR1:

- Start number 34 was manually annotated 3 times for cluster CR1.

Info for manual annotations of cluster CR2:

- Start number 31 was manually annotated 8 times for cluster CR2.
- Start number 34 was manually annotated 12 times for cluster CR2.

Info for manual annotations of cluster CR3:

- Start number 34 was manually annotated 5 times for cluster CR3.

Info for manual annotations of cluster CR4:

- Start number 34 was manually annotated 7 times for cluster CR4.

Info for manual annotations of cluster CR5:

- Start number 34 was manually annotated 2 times for cluster CR5.

Info for manual annotations of cluster CZ:

- Start number 33 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ1:

- Start number 33 was manually annotated 12 times for cluster CZ1.

Info for manual annotations of cluster DE3:

- Start number 37 was manually annotated 6 times for cluster DE3.
- Start number 43 was manually annotated 1 time for cluster DE3.

Info for manual annotations of cluster DT:

- Start number 33 was manually annotated 4 times for cluster DT.

Info for manual annotations of cluster H1:

- Start number 42 was manually annotated 9 times for cluster H1.

Info for manual annotations of cluster I2:

- Start number 42 was manually annotated 1 time for cluster I2.

Info for manual annotations of cluster K1:

- Start number 42 was manually annotated 6 times for cluster K1.

Info for manual annotations of cluster K2:

- Start number 42 was manually annotated 10 times for cluster K2.

Info for manual annotations of cluster K6:

- Start number 42 was manually annotated 1 time for cluster K6.

Gene Information:

Gene: AbbysRanger_29 Start: 22117, Stop: 22557, Start Num: 42

Candidate Starts for AbbysRanger_29:

(Start: 42 @22117 has 179 MA's), (46, 22132), (52, 22153), (Start: 57 @22168 has 14 MA's), (58, 22171), (61, 22186), (Start: 63 @22198 has 2 MA's), (67, 22210), (79, 22267), (81, 22279), (92, 22324), (97, 22345), (114, 22408),

Gene: Abdiel_28 Start: 22079, Stop: 22525, Start Num: 42

Candidate Starts for Abdiel_28:

(13, 21857), (16, 21908), (Start: 42 @22079 has 179 MA's), (Start: 53 @22118 has 4 MA's), (Start: 57 @22130 has 14 MA's), (61, 22148), (Start: 63 @22160 has 2 MA's), (67, 22172), (68, 22181), (79, 22235), (81, 22247), (85, 22265), (92, 22292), (97, 22313), (114, 22376), (137, 22466), (138, 22469),

Gene: Achebe_28 Start: 22100, Stop: 22540, Start Num: 42

Candidate Starts for Achebe_28:

(Start: 42 @22100 has 179 MA's), (46, 22115), (52, 22136), (Start: 57 @22151 has 14 MA's), (58, 22154), (61, 22169), (Start: 63 @22181 has 2 MA's), (67, 22193), (79, 22250), (81, 22262), (92, 22307), (97, 22328), (114, 22391),

Gene: Albee_29 Start: 22082, Stop: 22528, Start Num: 42

Candidate Starts for Albee_29:

(13, 21860), (16, 21911), (Start: 42 @22082 has 179 MA's), (Start: 53 @22121 has 4 MA's), (Start: 57 @22133 has 14 MA's), (61, 22151), (Start: 63 @22163 has 2 MA's), (67, 22175), (68, 22184), (79, 22238), (81, 22250), (92, 22295), (97, 22316), (114, 22379), (137, 22469), (138, 22472),

Gene: Alberto7_30 Start: 22384, Stop: 22830, Start Num: 42

Candidate Starts for Alberto7_30:

(13, 22162), (16, 22213), (Start: 42 @22384 has 179 MA's), (Start: 53 @22423 has 4 MA's), (Start: 57 @22435 has 14 MA's), (61, 22453), (Start: 63 @22465 has 2 MA's), (67, 22477), (68, 22486), (79, 22540), (81, 22552), (92, 22597), (97, 22618), (114, 22681), (137, 22771), (138, 22774),

Gene: AnnaL29_33 Start: 24257, Stop: 24685, Start Num: 42

Candidate Starts for AnnaL29_33:

(Start: 42 @24257 has 179 MA's), (Start: 60 @24323 has 1 MA's), (68, 24359), (69, 24362), (70, 24365), (79, 24404), (86, 24437), (92, 24461), (114, 24539), (123, 24581), (136, 24623), (137, 24626), (138, 24629),

Gene: Annyong_29 Start: 22134, Stop: 22529, Start Num: 57

Candidate Starts for Annyong_29:

(13, 21861), (16, 21912), (Start: 42 @22083 has 179 MA's), (Start: 53 @22122 has 4 MA's), (Start: 57 @22134 has 14 MA's), (61, 22152), (Start: 63 @22164 has 2 MA's), (67, 22176), (68, 22185), (79, 22239), (81, 22251), (92, 22296), (97, 22317), (114, 22380), (137, 22470), (138, 22473),

Gene: ArcherNM_32 Start: 24201, Stop: 24629, Start Num: 42

Candidate Starts for ArcherNM_32:

(Start: 42 @24201 has 179 MA's), (66, 24291), (79, 24348), (92, 24405), (93, 24414), (114, 24483), (119, 24501), (136, 24567), (138, 24573),

Gene: Arti_50 Start: 38680, Stop: 39186, Start Num: 34

Candidate Starts for Arti_50:

(9, 38449), (Start: 34 @38680 has 29 MA's), (50, 38752), (70, 38827), (85, 38902), (86, 38905), (114, 38998), (117, 39010), (126, 39049), (136, 39097), (137, 39100), (147, 39127), (152, 39154),

Gene: Arturo_28 Start: 22194, Stop: 22637, Start Num: 42

Candidate Starts for Arturo_28:

(13, 21972), (16, 22023), (Start: 42 @22194 has 179 MA's), (Start: 53 @22233 has 4 MA's), (Start: 63 @22275 has 2 MA's), (79, 22350), (85, 22380), (92, 22407), (99, 22428), (114, 22488), (123, 22530),

Gene: AvatarAhPeg_30 Start: 22382, Stop: 22810, Start Num: 42

Candidate Starts for AvatarAhPeg_30:

(Start: 42 @22382 has 179 MA's), (52, 22418), (Start: 53 @22421 has 4 MA's), (56, 22430), (69, 22487), (78, 22523), (79, 22529), (83, 22547), (85, 22559), (92, 22586), (113, 22661), (114, 22664), (132, 22727), (136, 22748), (138, 22754),

Gene: Avle17_29 Start: 22082, Stop: 22528, Start Num: 42

Candidate Starts for Avle17_29:

(13, 21860), (16, 21911), (Start: 42 @22082 has 179 MA's), (Start: 53 @22121 has 4 MA's), (Start: 57 @22133 has 14 MA's), (61, 22151), (Start: 63 @22163 has 2 MA's), (67, 22175), (68, 22184), (72, 22205), (79, 22238), (81, 22250), (92, 22295), (97, 22316), (114, 22379), (137, 22469), (138, 22472),

Gene: Baby16_29 Start: 22091, Stop: 22537, Start Num: 42

Candidate Starts for Baby16_29:

(13, 21869), (16, 21920), (Start: 42 @22091 has 179 MA's), (Start: 53 @22130 has 4 MA's), (Start: 57 @22142 has 14 MA's), (61, 22160), (Start: 63 @22172 has 2 MA's), (67, 22184), (68, 22193), (79, 22247), (81, 22259), (92, 22304), (97, 22325), (114, 22388), (137, 22478), (138, 22481),

Gene: Backyardigan_29 Start: 22112, Stop: 22552, Start Num: 42

Candidate Starts for Backyardigan_29:

(Start: 42 @22112 has 179 MA's), (46, 22127), (52, 22148), (Start: 57 @22163 has 14 MA's), (58, 22166), (61, 22181), (Start: 63 @22193 has 2 MA's), (67, 22205), (79, 22262), (81, 22274), (92, 22319), (97, 22340), (114, 22403),

Gene: Bactobuster_31 Start: 24014, Stop: 24442, Start Num: 42

Candidate Starts for Bactobuster_31:

(Start: 42 @24014 has 179 MA's), (52, 24050), (Start: 60 @24080 has 1 MA's), (66, 24104), (69, 24119), (78, 24155), (85, 24191), (92, 24218), (114, 24296), (117, 24308), (123, 24338), (132, 24359), (136, 24380), (137, 24383), (138, 24386),

Gene: Badger_29 Start: 22101, Stop: 22541, Start Num: 42

Candidate Starts for Badger_29:

(Start: 42 @22101 has 179 MA's), (46, 22116), (52, 22137), (Start: 57 @22152 has 14 MA's), (58, 22155), (61, 22170), (Start: 63 @22182 has 2 MA's), (67, 22194), (79, 22251), (81, 22263), (92, 22308), (97, 22329), (114, 22392),

Gene: BangNhom_29 Start: 22396, Stop: 22842, Start Num: 42

Candidate Starts for BangNhom_29:

(13, 22174), (16, 22225), (Start: 42 @22396 has 179 MA's), (46, 22411), (Start: 57 @22447 has 14 MA's), (Start: 63 @22477 has 2 MA's), (65, 22483), (67, 22489), (79, 22552), (85, 22582), (92, 22609), (97, 22630), (114, 22693), (136, 22780), (138, 22786),

Gene: Bartimeaus_29 Start: 22082, Stop: 22528, Start Num: 42

Candidate Starts for Bartimeaus_29:

(13, 21860), (16, 21911), (Start: 42 @22082 has 179 MA's), (Start: 53 @22121 has 4 MA's), (Start: 57 @22133 has 14 MA's), (61, 22151), (Start: 63 @22163 has 2 MA's), (67, 22175), (68, 22184), (79, 22238), (81, 22250), (92, 22295), (97, 22316), (114, 22379), (137, 22469), (138, 22472),

Gene: BatStarr_23 Start: 21427, Stop: 21909, Start Num: 33

Candidate Starts for BatStarr_23:

(17, 21337), (Start: 33 @21427 has 17 MA's), (47, 21487), (79, 21622), (83, 21640), (90, 21673), (112, 21751), (117, 21769), (127, 21817), (128, 21823), (129, 21829),

Gene: Beckerton_36 Start: 33410, Stop: 33889, Start Num: 42

Candidate Starts for Beckerton_36:

(23, 33317), (Start: 42 @33410 has 179 MA's), (45, 33422), (Start: 57 @33461 has 14 MA's), (66, 33500), (82, 33581), (85, 33596), (107, 33680), (108, 33683), (137, 33797),

Gene: BellusTerra_29 Start: 22079, Stop: 22525, Start Num: 42

Candidate Starts for BellusTerra_29:

(13, 21857), (16, 21908), (Start: 42 @22079 has 179 MA's), (Start: 53 @22118 has 4 MA's), (Start: 57 @22130 has 14 MA's), (61, 22148), (Start: 63 @22160 has 2 MA's), (67, 22172), (68, 22181), (79, 22235), (81, 22247), (85, 22265), (92, 22292), (97, 22313), (114, 22376), (137, 22466), (138, 22469),

Gene: BiPauneto_52 Start: 38203, Stop: 38706, Start Num: 34

Candidate Starts for BiPauneto_52:

(21, 38149), (24, 38161), (25, 38167), (Start: 34 @38203 has 29 MA's), (39, 38236), (80, 38404), (86, 38428), (88, 38437), (98, 38464), (112, 38515), (117, 38533), (126, 38572), (137, 38623), (145, 38647),

Gene: Bialota_23 Start: 21439, Stop: 21921, Start Num: 33

Candidate Starts for Bialota_23:

(17, 21349), (Start: 33 @21439 has 17 MA's), (47, 21499), (79, 21634), (83, 21652), (90, 21685), (112, 21763), (117, 21781), (127, 21829), (128, 21835), (129, 21841),

Gene: Blackmoor_29 Start: 22082, Stop: 22528, Start Num: 42

Candidate Starts for Blackmoor_29:

(13, 21860), (16, 21911), (Start: 42 @22082 has 179 MA's), (Start: 53 @22121 has 4 MA's), (Start: 57 @22133 has 14 MA's), (61, 22151), (Start: 63 @22163 has 2 MA's), (67, 22175), (68, 22184), (79, 22238), (81, 22250), (92, 22295), (97, 22316), (114, 22379), (137, 22469), (138, 22472),

Gene: Bombshell_29 Start: 22082, Stop: 22528, Start Num: 42

Candidate Starts for Bombshell_29:

(13, 21860), (16, 21911), (Start: 42 @22082 has 179 MA's), (Start: 53 @22121 has 4 MA's), (Start: 57 @22133 has 14 MA's), (61, 22151), (Start: 63 @22163 has 2 MA's), (67, 22175), (68, 22184), (79, 22238), (81, 22250), (92, 22295), (97, 22316), (114, 22379), (137, 22469), (138, 22472),

Gene: Bonum_54 Start: 39333, Stop: 39842, Start Num: 31

Candidate Starts for Bonum_54:

(9, 39102), (Start: 31 @39333 has 8 MA's), (98, 39591), (117, 39660), (128, 39708), (151, 39801), (152, 39807),

Gene: BoostSeason_32 Start: 26585, Stop: 27004, Start Num: 42

Candidate Starts for BoostSeason_32:

(Start: 42 @26585 has 179 MA's), (49, 26612), (Start: 53 @26624 has 4 MA's), (78, 26735), (79, 26741), (81, 26753), (86, 26774), (91, 26795), (92, 26798), (141, 26960), (146, 26972),

Gene: Bosnia_23 Start: 21427, Stop: 21909, Start Num: 33

Candidate Starts for Bosnia_23:

(17, 21337), (Start: 33 @21427 has 17 MA's), (47, 21487), (79, 21622), (83, 21640), (90, 21673), (112, 21751), (117, 21769), (127, 21817), (128, 21823), (129, 21829),

Gene: Broseidon_29 Start: 22082, Stop: 22528, Start Num: 42

Candidate Starts for Broseidon_29:

(13, 21860), (16, 21911), (Start: 42 @22082 has 179 MA's), (Start: 53 @22121 has 4 MA's), (Start: 57 @22133 has 14 MA's), (61, 22151), (Start: 63 @22163 has 2 MA's), (67, 22175), (68, 22184), (79, 22238), (81, 22250), (92, 22295), (97, 22316), (114, 22379), (137, 22469), (138, 22472),

Gene: Bruiser_28 Start: 22082, Stop: 22528, Start Num: 42

Candidate Starts for Bruiser_28:

(13, 21860), (16, 21911), (Start: 42 @22082 has 179 MA's), (Start: 53 @22121 has 4 MA's), (Start: 57 @22133 has 14 MA's), (61, 22151), (Start: 63 @22163 has 2 MA's), (67, 22175), (68, 22184), (79, 22238), (81, 22250), (92, 22295), (97, 22316), (114, 22379), (137, 22469), (138, 22472),

Gene: BubbleTrouble_29 Start: 22082, Stop: 22528, Start Num: 42

Candidate Starts for BubbleTrouble_29:

(13, 21860), (16, 21911), (Start: 42 @22082 has 179 MA's), (Start: 53 @22121 has 4 MA's), (Start: 57 @22133 has 14 MA's), (61, 22151), (Start: 63 @22163 has 2 MA's), (67, 22175), (68, 22184), (79, 22238), (81, 22250), (85, 22268), (92, 22295), (97, 22316), (114, 22379), (137, 22469), (138, 22472),

Gene: Buggaboo_52 Start: 39812, Stop: 40321, Start Num: 31

Candidate Starts for Buggaboo_52:

(9, 39581), (Start: 31 @39812 has 8 MA's), (98, 40070), (117, 40139), (128, 40187), (151, 40280), (152, 40286),

Gene: Bumblebee11_29 Start: 22103, Stop: 22543, Start Num: 42

Candidate Starts for Bumblebee11_29:

(Start: 42 @22103 has 179 MA's), (46, 22118), (52, 22139), (Start: 57 @22154 has 14 MA's), (58, 22157), (61, 22172), (Start: 63 @22184 has 2 MA's), (67, 22196), (79, 22253), (81, 22265), (92, 22310), (97, 22331), (114, 22394),

Gene: Burger_28 Start: 22082, Stop: 22528, Start Num: 42

Candidate Starts for Burger_28:

(13, 21860), (16, 21911), (Start: 42 @22082 has 179 MA's), (Start: 53 @22121 has 4 MA's), (Start: 57 @22133 has 14 MA's), (61, 22151), (Start: 63 @22163 has 2 MA's), (67, 22175), (68, 22184), (79, 22238), (81, 22250), (92, 22295), (97, 22316), (114, 22379), (137, 22469), (138, 22472),

Gene: Caelakin_29 Start: 22082, Stop: 22528, Start Num: 42

Candidate Starts for Caelakin_29:

(13, 21860), (16, 21911), (Start: 42 @22082 has 179 MA's), (Start: 53 @22121 has 4 MA's), (Start: 57 @22133 has 14 MA's), (61, 22151), (Start: 63 @22163 has 2 MA's), (67, 22175), (68, 22184), (72, 22205), (79, 22238), (81, 22250), (92, 22295), (97, 22316), (114, 22379), (137, 22469), (138, 22472),

Gene: Camperdownii_28 Start: 21704, Stop: 22147, Start Num: 42

Candidate Starts for Camperdownii_28:

(13, 21482), (16, 21533), (Start: 42 @21704 has 179 MA's), (Start: 53 @21743 has 4 MA's), (59, 21761), (Start: 63 @21785 has 2 MA's), (79, 21860), (85, 21890), (92, 21917), (99, 21938), (109, 21980), (114, 21998), (120, 22022), (123, 22040),

Gene: Cborch11_37 Start: 32875, Stop: 33354, Start Num: 42

Candidate Starts for Cborch11_37:

(23, 32782), (Start: 42 @32875 has 179 MA's), (45, 32887), (Start: 57 @32926 has 14 MA's), (66, 32965), (82, 33046), (85, 33061), (107, 33145), (108, 33148), (137, 33262),

Gene: CentreCat_29 Start: 22083, Stop: 22529, Start Num: 42

Candidate Starts for CentreCat_29:

(13, 21861), (16, 21912), (Start: 42 @22083 has 179 MA's), (Start: 53 @22122 has 4 MA's), (Start: 57 @22134 has 14 MA's), (61, 22152), (Start: 63 @22164 has 2 MA's), (67, 22176), (68, 22185), (79, 22239), (81, 22251), (92, 22296), (97, 22317), (114, 22380), (137, 22470), (138, 22473),

Gene: Cerulean_30 Start: 22397, Stop: 22843, Start Num: 42

Candidate Starts for Cerulean_30:

(13, 22175), (16, 22226), (Start: 42 @22397 has 179 MA's), (46, 22412), (Start: 57 @22448 has 14 MA's), (Start: 63 @22478 has 2 MA's), (65, 22484), (67, 22490), (79, 22553), (85, 22583), (92, 22610), (97, 22631), (114, 22694), (136, 22781), (138, 22787),

Gene: ChampagnePapi_30 Start: 22396, Stop: 22842, Start Num: 42

Candidate Starts for ChampagnePapi_30:

(13, 22174), (16, 22225), (Start: 42 @22396 has 179 MA's), (Start: 53 @22435 has 4 MA's), (Start: 57 @22447 has 14 MA's), (61, 22465), (Start: 63 @22477 has 2 MA's), (67, 22489), (68, 22498), (79, 22552), (81, 22564), (92, 22609), (97, 22630), (114, 22693), (137, 22783), (138, 22786),

Gene: Changeling_32 Start: 24255, Stop: 24683, Start Num: 42

Candidate Starts for Changeling_32:

(Start: 42 @24255 has 179 MA's), (50, 24285), (Start: 60 @24321 has 1 MA's), (79, 24402), (86, 24435), (92, 24459), (114, 24537), (116, 24543), (119, 24555), (123, 24579), (136, 24621), (137, 24624), (138, 24627),

Gene: Chaph_29 Start: 22091, Stop: 22537, Start Num: 42

Candidate Starts for Chaph_29:

(13, 21869), (16, 21920), (Start: 42 @22091 has 179 MA's), (Start: 53 @22130 has 4 MA's), (Start: 57 @22142 has 14 MA's), (61, 22160), (Start: 63 @22172 has 2 MA's), (67, 22184), (68, 22193), (79, 22247), (81, 22259), (92, 22304), (97, 22325), (114, 22388), (137, 22478), (138, 22481),

Gene: Chickadee_40 Start: 36048, Stop: 36539, Start Num: 37

Candidate Starts for Chickadee_40:

(Start: 37 @36048 has 6 MA's), (Start: 43 @36075 has 1 MA's), (Start: 60 @36135 has 1 MA's), (61, 36138), (65, 36156), (77, 36210), (91, 36276), (98, 36291), (110, 36336), (116, 36354), (126, 36399), (153, 36531),

Gene: Chris_32 Start: 26948, Stop: 27370, Start Num: 42

Candidate Starts for Chris_32:

(Start: 42 @26948 has 179 MA's), (Start: 57 @26999 has 14 MA's), (61, 27017), (65, 27035), (79, 27098), (81, 27110), (92, 27155), (102, 27173), (111, 27218), (121, 27260),

Gene: Chupacabra_30 Start: 22409, Stop: 22834, Start Num: 42

Candidate Starts for Chupacabra_30:

(20, 22310), (30, 22364), (Start: 31 @22367 has 8 MA's), (Start: 42 @22409 has 179 MA's), (50, 22439), (Start: 60 @22475 has 1 MA's), (64, 22493), (70, 22517), (92, 22613), (114, 22688), (123, 22730), (132, 22751), (136, 22772), (137, 22775), (138, 22778),

Gene: Cici_29 Start: 22097, Stop: 22537, Start Num: 42

Candidate Starts for Cici_29:

(Start: 42 @22097 has 179 MA's), (46, 22112), (52, 22133), (Start: 57 @22148 has 14 MA's), (58, 22151), (61, 22166), (Start: 63 @22178 has 2 MA's), (67, 22190), (79, 22247), (81, 22259), (92, 22304), (97, 22325), (114, 22388),

Gene: Cindaradix_28 Start: 21827, Stop: 22255, Start Num: 42

Candidate Starts for Cindaradix_28:

(Start: 42 @21827 has 179 MA's), (Start: 53 @21866 has 4 MA's), (56, 21875), (64, 21911), (78, 21968), (85, 22004), (92, 22031), (109, 22091), (113, 22106), (114, 22109), (117, 22121), (120, 22133), (132, 22172), (136, 22193),

Gene: Cintron_29 Start: 22169, Stop: 22573, Start Num: 53

Candidate Starts for Cintron_29:

(5, 21728), (6, 21797), (7, 21812), (8, 21818), (13, 21908), (16, 21959), (Start: 42 @22130 has 179 MA's), (Start: 53 @22169 has 4 MA's), (Start: 63 @22211 has 2 MA's), (85, 22316), (92, 22343), (99, 22364), (109, 22406), (114, 22424), (123, 22466),

Gene: Citius_29 Start: 22082, Stop: 22543, Start Num: 42

Candidate Starts for Citius_29:

(13, 21860), (16, 21911), (Start: 42 @22082 has 179 MA's), (Start: 53 @22121 has 4 MA's), (Start: 57 @22133 has 14 MA's), (61, 22151), (Start: 63 @22163 has 2 MA's), (67, 22175), (68, 22184), (79, 22238), (81, 22250), (92, 22295), (97, 22316), (114, 22379), (137, 22484), (138, 22487),

Gene: Clarenza_29 Start: 22079, Stop: 22525, Start Num: 42

Candidate Starts for Clarenza_29:

(13, 21857), (16, 21908), (Start: 42 @22079 has 179 MA's), (Start: 53 @22118 has 4 MA's), (Start: 57 @22130 has 14 MA's), (61, 22148), (Start: 63 @22160 has 2 MA's), (67, 22172), (68, 22181), (79, 22235), (81, 22247), (92, 22292), (97, 22313), (114, 22376), (137, 22466), (138, 22469),

Gene: Cocoaberry_29 Start: 22086, Stop: 22532, Start Num: 42

Candidate Starts for Cocoaberry_29:

(13, 21864), (16, 21915), (Start: 42 @22086 has 179 MA's), (Start: 53 @22125 has 4 MA's), (Start: 57 @22137 has 14 MA's), (61, 22155), (Start: 63 @22167 has 2 MA's), (67, 22179), (68, 22188), (72, 22209), (79, 22242), (81, 22254), (92, 22299), (97, 22320), (114, 22383), (137, 22473), (138, 22476),

Gene: Commandaria_51 Start: 39801, Stop: 40316, Start Num: 34

Candidate Starts for Commandaria_51:

(Start: 34 @39801 has 29 MA's), (35, 39810), (86, 40026), (126, 40170), (136, 40218), (152, 40281),

Gene: Commander_29 Start: 22082, Stop: 22528, Start Num: 42

Candidate Starts for Commander_29:

(13, 21860), (16, 21911), (Start: 42 @22082 has 179 MA's), (Start: 53 @22121 has 4 MA's), (Start: 57 @22133 has 14 MA's), (61, 22151), (Start: 63 @22163 has 2 MA's), (67, 22175), (68, 22184), (79, 22238), (81, 22250), (85, 22268), (92, 22295), (97, 22316), (114, 22379), (137, 22469), (138, 22472),

Gene: Connomayer_29 Start: 22082, Stop: 22528, Start Num: 42

Candidate Starts for Connomayer_29:

(13, 21860), (16, 21911), (Start: 42 @22082 has 179 MA's), (Start: 53 @22121 has 4 MA's), (Start: 57 @22133 has 14 MA's), (61, 22151), (Start: 63 @22163 has 2 MA's), (67, 22175), (68, 22184), (79, 22238), (81, 22250), (92, 22295), (97, 22316), (114, 22379), (137, 22469), (138, 22472),

Gene: Dalilpop_55 Start: 40964, Stop: 41473, Start Num: 34

Candidate Starts for Dalilpop_55:

(Start: 34 @40964 has 29 MA's), (50, 41036), (85, 41186), (100, 41231), (114, 41282), (125, 41330), (126, 41333), (143, 41402), (152, 41441),

Gene: Damien_36 Start: 32876, Stop: 33355, Start Num: 42

Candidate Starts for Damien_36:

(23, 32783), (Start: 42 @32876 has 179 MA's), (45, 32888), (Start: 57 @32927 has 14 MA's), (66, 32966), (82, 33047), (85, 33062), (107, 33146), (108, 33149), (137, 33263),

Gene: Datway_29 Start: 22112, Stop: 22552, Start Num: 42

Candidate Starts for Datway_29:

(Start: 42 @22112 has 179 MA's), (46, 22127), (52, 22148), (Start: 57 @22163 has 14 MA's), (58, 22166), (61, 22181), (Start: 63 @22193 has 2 MA's), (67, 22205), (79, 22262), (81, 22274), (92, 22319), (97, 22340), (114, 22403),

Gene: Deano_29 Start: 22141, Stop: 22536, Start Num: 57

Candidate Starts for Deano_29:

(13, 21868), (16, 21919), (Start: 42 @22090 has 179 MA's), (Start: 53 @22129 has 4 MA's), (Start: 57 @22141 has 14 MA's), (61, 22159), (Start: 63 @22171 has 2 MA's), (67, 22183), (68, 22192), (79, 22246), (81, 22258), (92, 22303), (97, 22324), (114, 22387), (137, 22477), (138, 22480),

Gene: Dextert_41 Start: 36308, Stop: 36799, Start Num: 37

Candidate Starts for Dextert_41:

(Start: 37 @36308 has 6 MA's), (Start: 43 @36335 has 1 MA's), (Start: 60 @36395 has 1 MA's), (65, 36416), (77, 36470), (78, 36476), (98, 36551), (110, 36596), (116, 36614), (126, 36659),

Gene: Dhanush_29 Start: 22085, Stop: 22531, Start Num: 42

Candidate Starts for Dhanush_29:

(13, 21863), (16, 21914), (Start: 42 @22085 has 179 MA's), (Start: 53 @22124 has 4 MA's), (Start: 57 @22136 has 14 MA's), (61, 22154), (Start: 63 @22166 has 2 MA's), (67, 22178), (68, 22187), (79, 22241), (81, 22253), (92, 22298), (97, 22319), (114, 22382), (137, 22472), (138, 22475),

Gene: DirtyDunning_29 Start: 22078, Stop: 22521, Start Num: 42

Candidate Starts for DirtyDunning_29:

(13, 21856), (16, 21907), (Start: 42 @22078 has 179 MA's), (Start: 53 @22117 has 4 MA's), (59, 22135), (Start: 63 @22159 has 2 MA's), (85, 22264), (92, 22291), (99, 22312), (109, 22354), (114, 22372), (120, 22396), (123, 22414),

Gene: DismalFunk_31 Start: 26497, Stop: 26916, Start Num: 42

Candidate Starts for DismalFunk_31:

(Start: 42 @26497 has 179 MA's), (49, 26524), (Start: 53 @26536 has 4 MA's), (61, 26566), (66, 26587), (78, 26647), (81, 26665), (84, 26674), (86, 26686), (92, 26710), (106, 26737), (109, 26752), (141, 26872), (146, 26884),

Gene: DismalStressor_31 Start: 26497, Stop: 26916, Start Num: 42

Candidate Starts for DismalStressor_31:

(Start: 42 @26497 has 179 MA's), (49, 26524), (Start: 53 @26536 has 4 MA's), (61, 26566), (66, 26587), (78, 26647), (81, 26665), (84, 26674), (86, 26686), (92, 26710), (106, 26737), (109, 26752), (141, 26872), (146, 26884),

Gene: Dogfish_25 Start: 21688, Stop: 22176, Start Num: 33

Candidate Starts for Dogfish_25:

(Start: 33 @21688 has 17 MA's), (44, 21742), (50, 21763), (51, 21766), (Start: 57 @21784 has 14 MA's), (73, 21856), (80, 21892), (85, 21913), (86, 21916), (104, 21979), (125, 22069), (128, 22084),

Gene: DontArgue_29 Start: 20793, Stop: 21221, Start Num: 42

Candidate Starts for DontArgue_29:

(20, 20691), (Start: 31 @20748 has 8 MA's), (Start: 42 @20793 has 179 MA's), (50, 20823), (69, 20898), (74, 20916), (85, 20970), (92, 20997), (103, 21027), (114, 21075), (116, 21081), (136, 21159), (137, 21162), (138, 21165),

Gene: Drake94_29 Start: 20541, Stop: 20966, Start Num: 42

Candidate Starts for Drake94_29:

(20, 20439), (Start: 31 @20496 has 8 MA's), (Start: 42 @20541 has 179 MA's), (52, 20577), (Start: 53 @20580 has 4 MA's), (56, 20589), (Start: 57 @20592 has 14 MA's), (58, 20595), (Start: 60 @20607 has 1 MA's), (64, 20625), (70, 20649), (74, 20664), (78, 20682), (92, 20745), (95, 20760), (114, 20820), (119, 20838), (132, 20883), (136, 20904), (137, 20907),

Gene: DroogsArmy_30 Start: 24905, Stop: 25333, Start Num: 42

Candidate Starts for DroogsArmy_30:

(Start: 42 @24905 has 179 MA's), (46, 24920), (52, 24941), (Start: 53 @24944 has 4 MA's), (56, 24953), (66, 24995), (69, 25010), (80, 25061), (85, 25082), (92, 25109), (114, 25187), (117, 25199), (119, 25205), (120, 25211), (132, 25250), (136, 25271),

Gene: Druantia_29 Start: 22083, Stop: 22529, Start Num: 42

Candidate Starts for Druantia_29:

(13, 21861), (16, 21912), (Start: 42 @22083 has 179 MA's), (Start: 53 @22122 has 4 MA's), (Start: 57 @22134 has 14 MA's), (61, 22152), (Start: 63 @22164 has 2 MA's), (67, 22176), (68, 22185), (79, 22239), (81, 22251), (92, 22296), (97, 22317), (114, 22380), (137, 22470), (138, 22473),

Gene: DustyMartin_34 Start: 22506, Stop: 22931, Start Num: 42

Candidate Starts for DustyMartin_34:

(20, 22404), (30, 22458), (Start: 31 @22461 has 8 MA's), (Start: 42 @22506 has 179 MA's), (Start: 60 @22572 has 1 MA's), (78, 22647), (79, 22653), (86, 22686), (92, 22710), (114, 22785), (117, 22797), (124, 22830), (132, 22848), (136, 22869), (137, 22872),

Gene: Eagle_28 Start: 22082, Stop: 22528, Start Num: 42

Candidate Starts for Eagle_28:

(13, 21860), (16, 21911), (Start: 42 @22082 has 179 MA's), (46, 22097), (Start: 57 @22133 has 14 MA's), (Start: 63 @22163 has 2 MA's), (65, 22169), (67, 22175), (79, 22238), (85, 22268), (92, 22295), (97, 22316), (114, 22379), (136, 22466), (138, 22472),

Gene: Eaglepride_31 Start: 22419, Stop: 22844, Start Num: 42

Candidate Starts for Eaglepride_31:

(20, 22320), (30, 22374), (Start: 31 @22377 has 8 MA's), (Start: 42 @22419 has 179 MA's), (Start: 53 @22458 has 4 MA's), (56, 22467), (Start: 60 @22485 has 1 MA's), (69, 22524), (70, 22527), (74, 22542), (78, 22560), (92, 22623), (114, 22698), (116, 22704), (120, 22722), (136, 22782), (138, 22788),

Gene: Eapen_29 Start: 22081, Stop: 22527, Start Num: 42

Candidate Starts for Eapen_29:

(13, 21859), (16, 21910), (Start: 42 @22081 has 179 MA's), (Start: 53 @22120 has 4 MA's), (Start: 57 @22132 has 14 MA's), (61, 22150), (Start: 63 @22162 has 2 MA's), (67, 22174), (68, 22183), (79, 22237), (81, 22249), (92, 22294), (97, 22315), (114, 22378), (137, 22468), (138, 22471),

Gene: Edison31_30 Start: 22449, Stop: 22874, Start Num: 42

Candidate Starts for Edison31_30:

(20, 22344), (30, 22398), (Start: 31 @22401 has 8 MA's), (Start: 42 @22449 has 179 MA's), (Start: 53 @22488 has 4 MA's), (56, 22497), (Start: 60 @22515 has 1 MA's), (69, 22554), (70, 22557), (74, 22572), (78, 22590), (92, 22653), (114, 22728), (116, 22734), (132, 22791), (136, 22812), (138, 22818),

Gene: EdmundFerry_39 Start: 36077, Stop: 36568, Start Num: 37

Candidate Starts for EdmundFerry_39:

(Start: 37 @36077 has 6 MA's), (Start: 43 @36104 has 1 MA's), (Start: 60 @36164 has 1 MA's), (61, 36167), (65, 36185), (77, 36239), (91, 36305), (98, 36320), (110, 36365), (116, 36383), (126, 36428), (153, 36560),

Gene: Emianna_50 Start: 39672, Stop: 40178, Start Num: 34

Candidate Starts for Emianna_50:

(9, 39441), (Start: 34 @39672 has 29 MA's), (50, 39744), (70, 39819), (85, 39894), (86, 39897), (114, 39990), (117, 40002), (126, 40041), (136, 40089), (137, 40092), (147, 40119), (152, 40146),

Gene: Ennea_57 Start: 40686, Stop: 41192, Start Num: 34

Candidate Starts for Ennea_57:

(19, 40611), (Start: 34 @40686 has 29 MA's), (50, 40758), (79, 40878), (85, 40908), (125, 41052), (126, 41055), (143, 41124), (151, 41154), (152, 41160),

Gene: Eris_28 Start: 22082, Stop: 22528, Start Num: 42

Candidate Starts for Eris_28:

(13, 21860), (16, 21911), (Start: 42 @22082 has 179 MA's), (Start: 53 @22121 has 4 MA's), (Start: 57 @22133 has 14 MA's), (61, 22151), (Start: 63 @22163 has 2 MA's), (67, 22175), (68, 22184), (79, 22238), (81, 22250), (92, 22295), (97, 22316), (114, 22379), (137, 22469), (138, 22472),

Gene: Eros_29 Start: 22133, Stop: 22528, Start Num: 57

Candidate Starts for Eros_29:

(13, 21860), (16, 21911), (Start: 42 @22082 has 179 MA's), (Start: 53 @22121 has 4 MA's), (Start: 57 @22133 has 14 MA's), (61, 22151), (Start: 63 @22163 has 2 MA's), (67, 22175), (68, 22184), (79, 22238), (81, 22250), (92, 22295), (97, 22316), (114, 22379), (137, 22469), (138, 22472),

Gene: Eurydice_29 Start: 22079, Stop: 22525, Start Num: 42

Candidate Starts for Eurydice_29:

(13, 21857), (16, 21908), (Start: 42 @22079 has 179 MA's), (Start: 53 @22118 has 4 MA's), (Start: 57 @22130 has 14 MA's), (61, 22148), (Start: 63 @22160 has 2 MA's), (67, 22172), (68, 22181), (79, 22235), (81, 22247), (85, 22265), (92, 22292), (97, 22313), (114, 22376), (137, 22466), (138, 22469),

Gene: Eviarto_23 Start: 21427, Stop: 21909, Start Num: 33

Candidate Starts for Eviarto_23:

(17, 21337), (Start: 33 @21427 has 17 MA's), (47, 21487), (79, 21622), (83, 21640), (90, 21673), (112, 21751), (117, 21769), (127, 21817), (128, 21823), (129, 21829),

Gene: Ewald_26 Start: 22047, Stop: 22562, Start Num: 33

Candidate Starts for Ewald_26:

(Start: 33 @22047 has 17 MA's), (50, 22122), (55, 22137), (Start: 60 @22158 has 1 MA's), (62, 22170), (73, 22215), (80, 22251), (86, 22275), (96, 22314), (117, 22389), (128, 22443), (150, 22530),

Gene: Farewell_29 Start: 27075, Stop: 27485, Start Num: 42

Candidate Starts for Farewell_29:

(4, 26667), (9, 26796), (10, 26802), (11, 26847), (Start: 42 @27075 has 179 MA's), (Start: 57 @27126 has 14 MA's), (Start: 60 @27141 has 1 MA's), (61, 27144), (62, 27153), (71, 27189), (81, 27237), (93, 27282), (134, 27423), (137, 27432), (142, 27447), (148, 27462),

Gene: Findley_31 Start: 26489, Stop: 26908, Start Num: 42

Candidate Starts for Findley_31:

(Start: 42 @26489 has 179 MA's), (49, 26516), (Start: 53 @26528 has 4 MA's), (61, 26558), (66, 26579), (78, 26639), (81, 26657), (84, 26666), (86, 26678), (92, 26702), (106, 26729), (109, 26744), (141, 26864), (146, 26876),

Gene: Flapper_55 Start: 40395, Stop: 40904, Start Num: 34

Candidate Starts for Flapper_55:

(Start: 34 @40395 has 29 MA's), (48, 40455), (50, 40467), (85, 40617), (125, 40761), (126, 40764), (143, 40833), (152, 40872),

Gene: Float294_53 Start: 40128, Stop: 40634, Start Num: 34

Candidate Starts for Float294_53:

(19, 40053), (Start: 34 @40128 has 29 MA's), (50, 40200), (79, 40320), (85, 40350), (125, 40494), (126, 40497), (143, 40566), (151, 40596), (152, 40602),

Gene: Florean_29 Start: 22079, Stop: 22525, Start Num: 42

Candidate Starts for Florean_29:

(13, 21857), (16, 21908), (Start: 42 @22079 has 179 MA's), (Start: 53 @22118 has 4 MA's), (Start: 57 @22130 has 14 MA's), (61, 22148), (Start: 63 @22160 has 2 MA's), (67, 22172), (68, 22181), (79,

22235), (81, 22247), (92, 22292), (97, 22313), (114, 22376), (137, 22466), (138, 22469),

Gene: Flux_29 Start: 22082, Stop: 22528, Start Num: 42

Candidate Starts for Flux_29:

(13, 21860), (16, 21911), (Start: 42 @22082 has 179 MA's), (Start: 53 @22121 has 4 MA's), (Start: 57 @22133 has 14 MA's), (61, 22151), (Start: 63 @22163 has 2 MA's), (67, 22175), (68, 22184), (79, 22238), (81, 22250), (92, 22295), (97, 22316), (114, 22379), (137, 22469), (138, 22472),

Gene: Foxboro_51 Start: 40178, Stop: 40684, Start Num: 34

Candidate Starts for Foxboro_51:

(9, 39947), (Start: 34 @40178 has 29 MA's), (50, 40250), (70, 40325), (85, 40400), (86, 40403), (114, 40496), (117, 40508), (126, 40547), (136, 40595), (137, 40598), (147, 40625), (152, 40652),

Gene: Funston_29 Start: 22082, Stop: 22528, Start Num: 42

Candidate Starts for Funston_29:

(13, 21860), (16, 21911), (Start: 42 @22082 has 179 MA's), (Start: 53 @22121 has 4 MA's), (Start: 57 @22133 has 14 MA's), (61, 22151), (Start: 63 @22163 has 2 MA's), (67, 22175), (68, 22184), (72, 22205), (79, 22238), (81, 22250), (92, 22295), (97, 22316), (114, 22379), (137, 22469), (138, 22472),

Gene: Fury_58 Start: 38850, Stop: 39359, Start Num: 34

Candidate Starts for Fury_58:

(19, 38775), (22, 38793), (26, 38820), (Start: 34 @38850 has 29 MA's), (51, 38925), (70, 38997), (72, 39009), (79, 39042), (85, 39072), (110, 39156), (125, 39216), (126, 39219), (130, 39237), (137, 39270), (144, 39291),

Gene: GRU1_40 Start: 31942, Stop: 32451, Start Num: 34

Candidate Starts for GRU1_40:

(Start: 34 @31942 has 29 MA's), (48, 32002), (50, 32014), (85, 32164), (100, 32209), (125, 32308), (126, 32311), (143, 32380), (152, 32419),

Gene: GTE5_42 Start: 33174, Stop: 33761, Start Num: 18

Candidate Starts for GTE5_42:

(18, 33174), (Start: 34 @33252 has 29 MA's), (50, 33324), (85, 33474), (125, 33618), (126, 33621), (143, 33690), (152, 33729),

Gene: GTE6_40 Start: 36569, Stop: 37060, Start Num: 37

Candidate Starts for GTE6_40:

(Start: 37 @36569 has 6 MA's), (Start: 43 @36596 has 1 MA's), (Start: 60 @36656 has 1 MA's), (61, 36659), (65, 36677), (77, 36731), (91, 36797), (98, 36812), (110, 36857), (116, 36875), (126, 36920), (153, 37052),

Gene: GTE8_39 Start: 33002, Stop: 33436, Start Num: 50

Candidate Starts for GTE8_39:

(9, 32699), (Start: 34 @32930 has 29 MA's), (50, 33002), (70, 33077), (86, 33155), (117, 33260), (126, 33299), (136, 33347), (137, 33350), (147, 33377), (152, 33404),

Gene: Gadost_29 Start: 22137, Stop: 22532, Start Num: 57

Candidate Starts for Gadost_29:

(13, 21864), (16, 21915), (Start: 42 @22086 has 179 MA's), (Start: 53 @22125 has 4 MA's), (Start: 57 @22137 has 14 MA's), (61, 22155), (Start: 63 @22167 has 2 MA's), (67, 22179), (68, 22188), (72, 22209), (79, 22242), (81, 22254), (92, 22299), (97, 22320), (114, 22383), (137, 22473), (138, 22476),

Gene: Gmala1_30 Start: 35962, Stop: 36453, Start Num: 29

Candidate Starts for Gmala1_30:

(28, 35956), (29, 35962), (Start: 31 @35968 has 8 MA's), (54, 36055), (76, 36148), (80, 36172), (82, 36178), (83, 36181), (89, 36211), (91, 36217), (116, 36295), (146, 36409), (149, 36421),

Gene: Goose_30 Start: 22410, Stop: 22835, Start Num: 42

Candidate Starts for Goose_30:

(20, 22311), (30, 22365), (Start: 31 @22368 has 8 MA's), (Start: 42 @22410 has 179 MA's), (50, 22440), (Start: 60 @22476 has 1 MA's), (64, 22494), (70, 22518), (92, 22614), (114, 22689), (123, 22731), (132, 22752), (136, 22773), (137, 22776), (138, 22779),

Gene: GordDuk1_30 Start: 35900, Stop: 36391, Start Num: 29

Candidate Starts for GordDuk1_30:

(28, 35894), (29, 35900), (Start: 31 @35906 has 8 MA's), (54, 35993), (76, 36086), (82, 36116), (83, 36119), (89, 36149), (91, 36155), (116, 36233), (146, 36347), (149, 36359),

Gene: GordTnk2_30 Start: 35869, Stop: 36360, Start Num: 29

Candidate Starts for GordTnk2_30:

(28, 35863), (29, 35869), (Start: 31 @35875 has 8 MA's), (54, 35962), (76, 36055), (82, 36085), (83, 36088), (89, 36118), (91, 36124), (116, 36202), (146, 36316), (149, 36328),

Gene: GrootJr_52 Start: 39054, Stop: 39560, Start Num: 34

Candidate Starts for GrootJr_52:

(2, 38607), (9, 38823), (Start: 34 @39054 has 29 MA's), (50, 39126), (70, 39201), (85, 39276), (86, 39279), (114, 39372), (117, 39384), (126, 39423), (136, 39471), (137, 39474), (147, 39501), (152, 39528),

Gene: HINdeR_29 Start: 25006, Stop: 25437, Start Num: 42

Candidate Starts for HINdeR_29:

(Start: 42 @25006 has 179 MA's), (52, 25042), (69, 25111), (79, 25153), (85, 25183), (92, 25210), (114, 25291), (117, 25303), (119, 25309), (136, 25375), (137, 25378),

Gene: HamSlice_28 Start: 22080, Stop: 22526, Start Num: 42

Candidate Starts for HamSlice_28:

(13, 21858), (16, 21909), (Start: 42 @22080 has 179 MA's), (Start: 53 @22119 has 4 MA's), (Start: 57 @22131 has 14 MA's), (61, 22149), (Start: 63 @22161 has 2 MA's), (67, 22173), (68, 22182), (79, 22236), (81, 22248), (92, 22293), (97, 22314), (114, 22377), (137, 22467), (138, 22470),

Gene: Happiness_29 Start: 22088, Stop: 22534, Start Num: 42

Candidate Starts for Happiness_29:

(13, 21866), (16, 21917), (Start: 42 @22088 has 179 MA's), (46, 22103), (Start: 57 @22139 has 14 MA's), (Start: 63 @22169 has 2 MA's), (65, 22175), (67, 22181), (79, 22244), (85, 22274), (92, 22301), (97, 22322), (114, 22385), (136, 22472), (138, 22478),

Gene: Herbertwm_27 Start: 21048, Stop: 21473, Start Num: 42

Candidate Starts for Herbertwm_27:

(Start: 42 @21048 has 179 MA's), (52, 21084), (68, 21150), (75, 21174), (79, 21195), (92, 21252), (114, 21327), (119, 21345), (136, 21411), (138, 21417),

Gene: Herod_23 Start: 21427, Stop: 21909, Start Num: 33

Candidate Starts for Herod_23:

(17, 21337), (Start: 33 @21427 has 17 MA's), (47, 21487), (79, 21622), (83, 21640), (90, 21673), (112, 21751), (117, 21769), (127, 21817), (128, 21823), (129, 21829),

Gene: Holli_29 Start: 21872, Stop: 22318, Start Num: 42

Candidate Starts for Holli_29:

(13, 21650), (16, 21701), (Start: 42 @21872 has 179 MA's), (Start: 53 @21911 has 4 MA's), (Start: 57 @21923 has 14 MA's), (61, 21941), (Start: 63 @21953 has 2 MA's), (67, 21965), (68, 21974), (72, 21995), (79, 22028), (81, 22040), (92, 22085), (97, 22106), (114, 22169), (137, 22259), (138, 22262),

Gene: Houdini22_29 Start: 22137, Stop: 22532, Start Num: 57

Candidate Starts for Houdini22_29:

(13, 21864), (16, 21915), (Start: 42 @22086 has 179 MA's), (Start: 53 @22125 has 4 MA's), (Start: 57 @22137 has 14 MA's), (61, 22155), (Start: 63 @22167 has 2 MA's), (67, 22179), (68, 22188), (72, 22209), (79, 22242), (81, 22254), (92, 22299), (97, 22320), (114, 22383), (137, 22473), (138, 22476),

Gene: HubbaBubba_48 Start: 35218, Stop: 35721, Start Num: 34

Candidate Starts for HubbaBubba_48:

(21, 35164), (25, 35182), (Start: 34 @35218 has 29 MA's), (38, 35242), (65, 35344), (80, 35419), (86, 35443), (88, 35452), (98, 35479), (117, 35548), (126, 35587), (137, 35638), (145, 35662), (152, 35695),

Gene: Hugley_23 Start: 21427, Stop: 21909, Start Num: 33

Candidate Starts for Hugley_23:

(17, 21337), (Start: 33 @21427 has 17 MA's), (47, 21487), (79, 21622), (83, 21640), (90, 21673), (112, 21751), (117, 21769), (127, 21817), (128, 21823), (129, 21829),

Gene: Huxley_29 Start: 22185, Stop: 22589, Start Num: 53

Candidate Starts for Huxley_29:

(13, 21924), (16, 21975), (Start: 42 @22146 has 179 MA's), (Start: 53 @22185 has 4 MA's), (59, 22203), (Start: 63 @22227 has 2 MA's), (79, 22302), (85, 22332), (92, 22359), (99, 22380), (109, 22422), (114, 22440), (120, 22464), (123, 22482),

Gene: ICleared_29 Start: 22080, Stop: 22526, Start Num: 42

Candidate Starts for ICleared_29:

(13, 21858), (16, 21909), (Start: 42 @22080 has 179 MA's), (Start: 53 @22119 has 4 MA's), (Start: 57 @22131 has 14 MA's), (61, 22149), (Start: 63 @22161 has 2 MA's), (67, 22173), (68, 22182), (79, 22236), (81, 22248), (85, 22266), (92, 22293), (97, 22314), (114, 22377), (137, 22467), (138, 22470),

Gene: IDyn_51 Start: 36647, Stop: 37150, Start Num: 34

Candidate Starts for IDyn_51:

(24, 36605), (25, 36611), (Start: 34 @36647 has 29 MA's), (38, 36671), (86, 36872), (88, 36881), (98, 36908), (117, 36977), (126, 37016), (137, 37067), (145, 37091),

Gene: Iceman_30 Start: 22371, Stop: 22817, Start Num: 42

Candidate Starts for Iceman_30:

(13, 22149), (16, 22200), (Start: 42 @22371 has 179 MA's), (Start: 53 @22410 has 4 MA's), (Start: 57 @22422 has 14 MA's), (61, 22440), (Start: 63 @22452 has 2 MA's), (67, 22464), (68, 22473), (79, 22527), (81, 22539), (92, 22584), (97, 22605), (114, 22668), (137, 22758), (138, 22761),

Gene: IdentityCrisis_28 Start: 23464, Stop: 23874, Start Num: 42

Candidate Starts for IdentityCrisis_28:

(9, 23185), (10, 23191), (11, 23236), (Start: 42 @23464 has 179 MA's), (Start: 57 @23515 has 14 MA's), (62, 23542), (71, 23578), (81, 23626), (93, 23671), (134, 23812), (137, 23821), (142, 23836), (148, 23851),

Gene: Iracema64_30 Start: 22393, Stop: 22836, Start Num: 42

Candidate Starts for Iracema64_30:

(13, 22171), (16, 22222), (Start: 42 @22393 has 179 MA's), (Start: 53 @22432 has 4 MA's), (59, 22450), (Start: 63 @22474 has 2 MA's), (85, 22579), (92, 22606), (99, 22627), (109, 22669), (114, 22687), (120, 22711), (123, 22729),

Gene: IronMan_32 Start: 23977, Stop: 24408, Start Num: 42

Candidate Starts for IronMan_32:

(Start: 42 @23977 has 179 MA's), (52, 24013), (Start: 60 @24043 has 1 MA's), (69, 24082), (78, 24118), (92, 24181), (114, 24262), (117, 24274), (120, 24286), (123, 24304), (132, 24325), (136, 24346), (137, 24349), (138, 24352),

Gene: Jaan_33 Start: 24366, Stop: 24797, Start Num: 42

Candidate Starts for Jaan_33:

(Start: 42 @24366 has 179 MA's), (52, 24402), (Start: 60 @24432 has 1 MA's), (69, 24471), (78, 24507), (92, 24570), (114, 24651), (117, 24663), (123, 24693), (136, 24735), (137, 24738), (138, 24741),

Gene: Jaykayelowell_29 Start: 22117, Stop: 22524, Start Num: 53

Candidate Starts for Jaykayelowell_29:

(13, 21856), (16, 21907), (Start: 42 @22078 has 179 MA's), (Start: 53 @22117 has 4 MA's), (Start: 57 @22129 has 14 MA's), (61, 22147), (Start: 63 @22159 has 2 MA's), (67, 22171), (68, 22180), (79, 22234), (81, 22246), (92, 22291), (97, 22312), (114, 22375), (137, 22465), (138, 22468),

Gene: JetBlade_29 Start: 22130, Stop: 22525, Start Num: 57

Candidate Starts for JetBlade_29:

(13, 21857), (16, 21908), (Start: 42 @22079 has 179 MA's), (Start: 53 @22118 has 4 MA's), (Start: 57 @22130 has 14 MA's), (61, 22148), (Start: 63 @22160 has 2 MA's), (67, 22172), (68, 22181), (79, 22235), (81, 22247), (92, 22292), (97, 22313), (114, 22376), (137, 22466), (138, 22469),

Gene: Jifall16_49 Start: 39326, Stop: 39832, Start Num: 34

Candidate Starts for Jifall16_49:

(9, 39095), (Start: 34 @39326 has 29 MA's), (50, 39398), (70, 39473), (85, 39548), (86, 39551), (114, 39644), (117, 39656), (126, 39695), (136, 39743), (137, 39746), (147, 39773), (152, 39800),

Gene: JoongJeon_29 Start: 22082, Stop: 22528, Start Num: 42

Candidate Starts for JoongJeon_29:

(13, 21860), (16, 21911), (Start: 42 @22082 has 179 MA's), (Start: 53 @22121 has 4 MA's), (Start: 57 @22133 has 14 MA's), (61, 22151), (Start: 63 @22163 has 2 MA's), (67, 22175), (68, 22184), (79, 22238), (81, 22250), (92, 22295), (97, 22316), (114, 22379), (137, 22469), (138, 22472),

Gene: JustASigh_28 Start: 27518, Stop: 27970, Start Num: 41

Candidate Starts for JustASigh_28:

(12, 27302), (15, 27335), (17, 27389), (Start: 41 @27518 has 1 MA's), (62, 27596), (79, 27671), (109, 27794), (112, 27806), (118, 27827), (135, 27908),

Gene: KFPoly_29 Start: 22082, Stop: 22525, Start Num: 42

Candidate Starts for KFPoly_29:

(13, 21860), (16, 21911), (Start: 42 @22082 has 179 MA's), (Start: 53 @22121 has 4 MA's), (59, 22139), (Start: 63 @22163 has 2 MA's), (79, 22238), (85, 22268), (92, 22295), (99, 22316), (109, 22358), (114, 22376), (120, 22400), (123, 22418),

Gene: Kabluna_54 Start: 38748, Stop: 39257, Start Num: 31

Candidate Starts for Kabluna_54:

(9, 38517), (Start: 31 @38748 has 8 MA's), (98, 39006), (117, 39075), (128, 39123), (151, 39216), (152, 39222),

Gene: Kamy_29 Start: 22161, Stop: 22526, Start Num: 63

Candidate Starts for Kamy_29:

(13, 21858), (16, 21909), (Start: 42 @22080 has 179 MA's), (Start: 53 @22119 has 4 MA's), (Start: 57 @22131 has 14 MA's), (61, 22149), (Start: 63 @22161 has 2 MA's), (67, 22173), (68, 22182), (79, 22236), (81, 22248), (85, 22266), (92, 22293), (97, 22314), (114, 22377), (137, 22467), (138, 22470),

Gene: Katalie136_29 Start: 22103, Stop: 22543, Start Num: 42

Candidate Starts for Katalie136_29:

(Start: 42 @22103 has 179 MA's), (46, 22118), (52, 22139), (Start: 57 @22154 has 14 MA's), (58, 22157), (61, 22172), (Start: 63 @22184 has 2 MA's), (67, 22196), (79, 22253), (81, 22265), (92, 22310), (97, 22331), (114, 22394),

Gene: KiSi_32 Start: 26826, Stop: 27248, Start Num: 42

Candidate Starts for KiSi_32:

(Start: 42 @26826 has 179 MA's), (Start: 53 @26865 has 4 MA's), (Start: 57 @26877 has 14 MA's), (61, 26895), (79, 26976), (92, 27033), (114, 27105), (115, 27108), (123, 27147),

Gene: KidneyBean_50 Start: 39450, Stop: 39956, Start Num: 34

Candidate Starts for KidneyBean_50:

(9, 39219), (Start: 34 @39450 has 29 MA's), (50, 39522), (70, 39597), (85, 39672), (86, 39675), (114, 39768), (117, 39780), (126, 39819), (136, 39867), (137, 39870), (147, 39897), (152, 39924),

Gene: Kingmustik0402_29 Start: 22125, Stop: 22520, Start Num: 57

Candidate Starts for Kingmustik0402_29:

(13, 21852), (16, 21903), (Start: 42 @22074 has 179 MA's), (Start: 53 @22113 has 4 MA's), (Start: 57 @22125 has 14 MA's), (61, 22143), (Start: 63 @22155 has 2 MA's), (67, 22167), (68, 22176), (79, 22230), (81, 22242), (92, 22287), (97, 22308), (114, 22371), (137, 22461), (138, 22464),

Gene: KittenMittens_29 Start: 20549, Stop: 20974, Start Num: 42

Candidate Starts for KittenMittens_29:

(20, 20447), (Start: 31 @20504 has 8 MA's), (Start: 42 @20549 has 179 MA's), (52, 20585), (Start: 53 @20588 has 4 MA's), (56, 20597), (Start: 57 @20600 has 14 MA's), (58, 20603), (Start: 60 @20615 has 1 MA's), (64, 20633), (70, 20657), (74, 20672), (78, 20690), (92, 20753), (95, 20768), (114, 20828), (119, 20846), (132, 20891), (136, 20912), (137, 20915),

Gene: Koan_28 Start: 22133, Stop: 22528, Start Num: 57

Candidate Starts for Koan_28:

(13, 21860), (16, 21911), (Start: 42 @22082 has 179 MA's), (Start: 53 @22121 has 4 MA's), (Start: 57 @22133 has 14 MA's), (61, 22151), (Start: 63 @22163 has 2 MA's), (67, 22175), (68, 22184), (79, 22238), (81, 22250), (92, 22295), (97, 22316), (114, 22379), (137, 22469), (138, 22472),

Gene: Konstantine_41 Start: 34077, Stop: 34556, Start Num: 42

Candidate Starts for Konstantine_41:

(23, 33984), (Start: 42 @34077 has 179 MA's), (45, 34089), (Start: 57 @34128 has 14 MA's), (66, 34167), (82, 34248), (85, 34263), (107, 34347), (108, 34350), (137, 34464),

Gene: Koreni_28 Start: 21728, Stop: 22174, Start Num: 42

Candidate Starts for Koreni_28:

(13, 21506), (16, 21557), (Start: 42 @21728 has 179 MA's), (Start: 53 @21767 has 4 MA's), (Start: 57 @21779 has 14 MA's), (61, 21797), (Start: 63 @21809 has 2 MA's), (67, 21821), (68, 21830), (79,

21884), (81, 21896), (92, 21941), (97, 21962), (114, 22025), (137, 22115), (138, 22118),

Gene: Kratark_29 Start: 22077, Stop: 22520, Start Num: 42

Candidate Starts for Kratark_29:

(13, 21855), (16, 21906), (Start: 42 @22077 has 179 MA's), (Start: 53 @22116 has 4 MA's), (59, 22134), (Start: 63 @22158 has 2 MA's), (79, 22233), (85, 22263), (92, 22290), (99, 22311), (109, 22353), (114, 22371), (120, 22395), (123, 22413),

Gene: Kremtemulon_29 Start: 22130, Stop: 22576, Start Num: 42

Candidate Starts for Kremtemulon_29:

(13, 21908), (16, 21959), (Start: 42 @22130 has 179 MA's), (Start: 53 @22169 has 4 MA's), (Start: 57 @22181 has 14 MA's), (61, 22199), (Start: 63 @22211 has 2 MA's), (67, 22223), (68, 22232), (79, 22286), (81, 22298), (92, 22343), (97, 22364), (114, 22427), (137, 22517), (138, 22520),

Gene: Kristoff_31 Start: 22613, Stop: 23038, Start Num: 42

Candidate Starts for Kristoff_31:

(20, 22508), (30, 22562), (Start: 31 @22565 has 8 MA's), (Start: 42 @22613 has 179 MA's), (Start: 53 @22652 has 4 MA's), (56, 22661), (Start: 60 @22679 has 1 MA's), (69, 22718), (70, 22721), (74, 22736), (78, 22754), (92, 22817), (114, 22892), (116, 22898), (132, 22955), (136, 22976), (138, 22982),

Gene: Kurt_50 Start: 39687, Stop: 40193, Start Num: 34

Candidate Starts for Kurt_50:

(9, 39456), (Start: 34 @39687 has 29 MA's), (50, 39759), (70, 39834), (85, 39909), (86, 39912), (114, 40005), (117, 40017), (126, 40056), (136, 40104), (137, 40107), (147, 40134), (152, 40161),

Gene: Kwekel_40 Start: 36036, Stop: 36500, Start Num: 43

Candidate Starts for Kwekel_40:

(Start: 37 @36009 has 6 MA's), (Start: 43 @36036 has 1 MA's), (Start: 60 @36096 has 1 MA's), (61, 36099), (65, 36117), (77, 36171), (91, 36237), (98, 36252), (110, 36297), (116, 36315), (126, 36360), (153, 36492),

Gene: Kyee_29 Start: 22083, Stop: 22526, Start Num: 42

Candidate Starts for Kyee_29:

(13, 21861), (16, 21912), (Start: 42 @22083 has 179 MA's), (Start: 53 @22122 has 4 MA's), (59, 22140), (Start: 63 @22164 has 2 MA's), (79, 22239), (85, 22269), (92, 22296), (99, 22317), (109, 22359), (114, 22377), (120, 22401), (123, 22419),

Gene: LHTSCC_30 Start: 22396, Stop: 22842, Start Num: 42

Candidate Starts for LHTSCC_30:

(13, 22174), (16, 22225), (Start: 42 @22396 has 179 MA's), (46, 22411), (Start: 57 @22447 has 14 MA's), (Start: 63 @22477 has 2 MA's), (65, 22483), (67, 22489), (79, 22552), (85, 22582), (92, 22609), (97, 22630), (114, 22693), (136, 22780), (138, 22786),

Gene: Landor_31 Start: 24018, Stop: 24449, Start Num: 42

Candidate Starts for Landor_31:

(Start: 42 @24018 has 179 MA's), (52, 24054), (Start: 60 @24084 has 1 MA's), (69, 24123), (78, 24159), (92, 24222), (114, 24303), (117, 24315), (123, 24345), (136, 24387), (137, 24390), (138, 24393),

Gene: LappelDuVide_29 Start: 22079, Stop: 22525, Start Num: 42

Candidate Starts for LappelDuVide_29:

(13, 21857), (16, 21908), (Start: 42 @22079 has 179 MA's), (Start: 53 @22118 has 4 MA's), (Start: 57 @22130 has 14 MA's), (61, 22148), (Start: 63 @22160 has 2 MA's), (67, 22172), (68, 22181), (72, 22202), (79, 22235), (81, 22247), (92, 22292), (97, 22313), (114, 22376), (137, 22466), (138, 22469),

Gene: LeMond_32 Start: 26897, Stop: 27319, Start Num: 42

Candidate Starts for LeMond_32:

(Start: 42 @26897 has 179 MA's), (Start: 53 @26936 has 4 MA's), (Start: 57 @26948 has 14 MA's), (61, 26966), (79, 27047), (92, 27104), (114, 27176), (115, 27179), (123, 27218),

Gene: Lemur_29 Start: 22079, Stop: 22525, Start Num: 42

Candidate Starts for Lemur_29:

(13, 21857), (16, 21908), (Start: 42 @22079 has 179 MA's), (Start: 53 @22118 has 4 MA's), (Start: 57 @22130 has 14 MA's), (61, 22148), (Start: 63 @22160 has 2 MA's), (67, 22172), (68, 22181), (79, 22235), (81, 22247), (92, 22292), (97, 22313), (114, 22376), (137, 22466), (138, 22469),

Gene: LeoAvram_29 Start: 22160, Stop: 22525, Start Num: 63

Candidate Starts for LeoAvram_29:

(13, 21857), (16, 21908), (Start: 42 @22079 has 179 MA's), (Start: 53 @22118 has 4 MA's), (Start: 57 @22130 has 14 MA's), (61, 22148), (Start: 63 @22160 has 2 MA's), (67, 22172), (68, 22181), (79, 22235), (81, 22247), (85, 22265), (92, 22292), (97, 22313), (114, 22376), (137, 22466), (138, 22469),

Gene: LittleB_29 Start: 22082, Stop: 22528, Start Num: 42

Candidate Starts for LittleB_29:

(13, 21860), (16, 21911), (Start: 42 @22082 has 179 MA's), (Start: 53 @22121 has 4 MA's), (Start: 57 @22133 has 14 MA's), (61, 22151), (Start: 63 @22163 has 2 MA's), (67, 22175), (68, 22184), (79, 22238), (81, 22250), (92, 22295), (97, 22316), (114, 22379), (137, 22469), (138, 22472),

Gene: LittleGuy_29 Start: 22025, Stop: 22471, Start Num: 42

Candidate Starts for LittleGuy_29:

(13, 21803), (16, 21854), (Start: 42 @22025 has 179 MA's), (Start: 53 @22064 has 4 MA's), (Start: 57 @22076 has 14 MA's), (61, 22094), (Start: 63 @22106 has 2 MA's), (67, 22118), (68, 22127), (79, 22181), (85, 22211), (92, 22238), (97, 22259), (114, 22322), (137, 22412), (138, 22415),

Gene: LochMonster_29 Start: 22096, Stop: 22500, Start Num: 53

Candidate Starts for LochMonster_29:

(13, 21835), (16, 21886), (Start: 42 @22057 has 179 MA's), (Start: 53 @22096 has 4 MA's), (59, 22114), (Start: 63 @22138 has 2 MA's), (85, 22243), (92, 22270), (99, 22291), (109, 22333), (114, 22351), (120, 22375), (123, 22393),

Gene: Lollipop1437_56 Start: 40674, Stop: 41180, Start Num: 34

Candidate Starts for Lollipop1437_56:

(19, 40599), (Start: 34 @40674 has 29 MA's), (50, 40746), (79, 40866), (86, 40899), (114, 40992), (125, 41040), (126, 41043), (143, 41112), (152, 41148),

Gene: Lorenzo_29 Start: 22082, Stop: 22528, Start Num: 42

Candidate Starts for Lorenzo_29:

(13, 21860), (16, 21911), (Start: 42 @22082 has 179 MA's), (Start: 53 @22121 has 4 MA's), (Start: 57 @22133 has 14 MA's), (61, 22151), (Start: 63 @22163 has 2 MA's), (67, 22175), (68, 22184), (79, 22238), (81, 22250), (92, 22295), (97, 22316), (114, 22379), (137, 22469), (138, 22472),

Gene: Loser_33 Start: 24176, Stop: 24604, Start Num: 42

Candidate Starts for Loser_33:

(Start: 42 @24176 has 179 MA's), (Start: 60 @24242 has 1 MA's), (68, 24278), (69, 24281), (79, 24323), (86, 24356), (92, 24380), (113, 24455), (114, 24458), (123, 24500), (136, 24542), (137, 24545), (138, 24548),

Gene: Lunsford_30 Start: 22130, Stop: 22525, Start Num: 57

Candidate Starts for Lunsford_30:

(13, 21857), (16, 21908), (Start: 42 @22079 has 179 MA's), (Start: 53 @22118 has 4 MA's), (Start: 57 @22130 has 14 MA's), (61, 22148), (Start: 63 @22160 has 2 MA's), (67, 22172), (68, 22181), (79, 22235), (81, 22247), (92, 22292), (97, 22313), (114, 22376), (137, 22466), (138, 22469),

Gene: Madeline_23 Start: 21725, Stop: 22207, Start Num: 33

Candidate Starts for Madeline_23:

(17, 21635), (Start: 33 @21725 has 17 MA's), (47, 21785), (79, 21920), (83, 21938), (90, 21971), (112, 22049), (117, 22067), (127, 22115), (128, 22121), (129, 22127),

Gene: Marcoliusprime_31 Start: 26497, Stop: 26916, Start Num: 42

Candidate Starts for Marcoliusprime_31:

(Start: 42 @26497 has 179 MA's), (49, 26524), (Start: 53 @26536 has 4 MA's), (61, 26566), (66, 26587), (78, 26647), (81, 26665), (84, 26674), (86, 26686), (92, 26710), (106, 26737), (109, 26752), (141, 26872), (146, 26884),

Gene: Marietta_52 Start: 36541, Stop: 37044, Start Num: 34

Candidate Starts for Marietta_52:

(24, 36499), (25, 36505), (Start: 34 @36541 has 29 MA's), (38, 36565), (80, 36742), (86, 36766), (88, 36775), (98, 36802), (117, 36871), (126, 36910), (137, 36961), (145, 36985),

Gene: MarkPhew_33 Start: 26795, Stop: 27217, Start Num: 42

Candidate Starts for MarkPhew_33:

(Start: 42 @26795 has 179 MA's), (Start: 57 @26846 has 14 MA's), (61, 26864), (65, 26882), (79, 26945), (92, 27002), (123, 27116),

Gene: Marshawn_34 Start: 27478, Stop: 27912, Start Num: 42

Candidate Starts for Marshawn_34:

(Start: 42 @27478 has 179 MA's), (Start: 53 @27517 has 4 MA's), (Start: 60 @27544 has 1 MA's), (61, 27547), (92, 27688), (114, 27769), (116, 27775), (133, 27841), (137, 27859), (138, 27862), (139, 27868), (142, 27874),

Gene: Maverick_29 Start: 22082, Stop: 22528, Start Num: 42

Candidate Starts for Maverick_29:

(13, 21860), (16, 21911), (Start: 42 @22082 has 179 MA's), (Start: 53 @22121 has 4 MA's), (Start: 57 @22133 has 14 MA's), (61, 22151), (Start: 63 @22163 has 2 MA's), (67, 22175), (68, 22184), (79, 22238), (81, 22250), (92, 22295), (97, 22316), (114, 22379), (137, 22469), (138, 22472),

Gene: Maxo_29 Start: 22080, Stop: 22526, Start Num: 42

Candidate Starts for Maxo_29:

(13, 21858), (16, 21909), (Start: 42 @22080 has 179 MA's), (Start: 53 @22119 has 4 MA's), (Start: 57 @22131 has 14 MA's), (61, 22149), (Start: 63 @22161 has 2 MA's), (67, 22173), (68, 22182), (79, 22236), (81, 22248), (85, 22266), (92, 22293), (97, 22314), (114, 22377), (137, 22467), (138, 22470),

Gene: Mazhar510_29 Start: 22083, Stop: 22529, Start Num: 42

Candidate Starts for Mazhar510_29:

(13, 21861), (16, 21912), (Start: 42 @22083 has 179 MA's), (Start: 53 @22122 has 4 MA's), (Start: 57 @22134 has 14 MA's), (61, 22152), (Start: 63 @22164 has 2 MA's), (67, 22176), (68, 22185), (72,

22206), (79, 22239), (81, 22251), (92, 22296), (97, 22317), (114, 22380), (137, 22470), (138, 22473),

Gene: Medusa_29 Start: 22083, Stop: 22529, Start Num: 42

Candidate Starts for Medusa_29:

(13, 21861), (16, 21912), (Start: 42 @22083 has 179 MA's), (Start: 53 @22122 has 4 MA's), (Start: 57 @22134 has 14 MA's), (61, 22152), (Start: 63 @22164 has 2 MA's), (67, 22176), (68, 22185), (79, 22239), (81, 22251), (92, 22296), (97, 22317), (114, 22380), (137, 22470), (138, 22473),

Gene: MeeZee_29 Start: 22082, Stop: 22528, Start Num: 42

Candidate Starts for MeeZee_29:

(13, 21860), (16, 21911), (Start: 42 @22082 has 179 MA's), (Start: 53 @22121 has 4 MA's), (Start: 57 @22133 has 14 MA's), (61, 22151), (Start: 63 @22163 has 2 MA's), (67, 22175), (68, 22184), (79, 22238), (81, 22250), (85, 22268), (92, 22295), (97, 22316), (114, 22379), (137, 22469), (138, 22472),

Gene: Megatron06_38 Start: 33409, Stop: 33888, Start Num: 42

Candidate Starts for Megatron06_38:

(23, 33316), (Start: 42 @33409 has 179 MA's), (45, 33421), (Start: 57 @33460 has 14 MA's), (66, 33499), (82, 33580), (85, 33595), (107, 33679), (108, 33682), (137, 33796),

Gene: Melvin_29 Start: 22082, Stop: 22528, Start Num: 42

Candidate Starts for Melvin_29:

(13, 21860), (16, 21911), (Start: 42 @22082 has 179 MA's), (Start: 53 @22121 has 4 MA's), (Start: 57 @22133 has 14 MA's), (61, 22151), (Start: 63 @22163 has 2 MA's), (67, 22175), (68, 22184), (79, 22238), (81, 22250), (92, 22295), (97, 22316), (114, 22379), (137, 22469), (138, 22472),

Gene: MerCougar_52 Start: 39950, Stop: 40459, Start Num: 31

Candidate Starts for MerCougar_52:

(9, 39719), (Start: 31 @39950 has 8 MA's), (86, 40172), (87, 40178), (98, 40208), (117, 40277), (128, 40325), (151, 40418), (152, 40424),

Gene: Meyran_25 Start: 22519, Stop: 23031, Start Num: 33

Candidate Starts for Meyran_25:

(Start: 33 @22519 has 17 MA's), (50, 22594), (51, 22597), (55, 22609), (Start: 60 @22630 has 1 MA's), (73, 22687), (77, 22702), (80, 22723), (91, 22768), (94, 22783), (127, 22909), (128, 22915), (150, 23002),

Gene: Millski_28 Start: 22085, Stop: 22531, Start Num: 42

Candidate Starts for Millski_28:

(13, 21863), (16, 21914), (Start: 42 @22085 has 179 MA's), (Start: 53 @22124 has 4 MA's), (Start: 57 @22136 has 14 MA's), (61, 22154), (Start: 63 @22166 has 2 MA's), (67, 22178), (68, 22187), (79, 22241), (81, 22253), (92, 22298), (97, 22319), (114, 22382), (137, 22472), (138, 22475),

Gene: Milly_31 Start: 26470, Stop: 26889, Start Num: 42

Candidate Starts for Milly_31:

(Start: 42 @26470 has 179 MA's), (49, 26497), (Start: 53 @26509 has 4 MA's), (61, 26539), (78, 26620), (81, 26638), (84, 26647), (86, 26659), (92, 26683), (106, 26710), (141, 26845), (146, 26857),

Gene: Miramae_29 Start: 22046, Stop: 22474, Start Num: 42

Candidate Starts for Miramae_29:

(Start: 42 @22046 has 179 MA's), (52, 22082), (Start: 53 @22085 has 4 MA's), (56, 22094), (78, 22187), (79, 22193), (83, 22211), (85, 22223), (92, 22250), (113, 22325), (114, 22328), (132, 22391), (136, 22412), (138, 22418),

Gene: Morpher26_29 Start: 22103, Stop: 22543, Start Num: 42

Candidate Starts for Morpher26_29:

(Start: 42 @22103 has 179 MA's), (46, 22118), (52, 22139), (Start: 57 @22154 has 14 MA's), (58, 22157), (61, 22172), (Start: 63 @22184 has 2 MA's), (67, 22196), (79, 22253), (81, 22265), (92, 22310), (97, 22331), (114, 22394),

Gene: Morrow_29 Start: 22085, Stop: 22531, Start Num: 42

Candidate Starts for Morrow_29:

(13, 21863), (16, 21914), (Start: 42 @22085 has 179 MA's), (Start: 53 @22124 has 4 MA's), (Start: 57 @22136 has 14 MA's), (61, 22154), (Start: 63 @22166 has 2 MA's), (67, 22178), (68, 22187), (79, 22241), (81, 22253), (85, 22271), (92, 22298), (97, 22319), (114, 22382), (137, 22472), (138, 22475),

Gene: Mufasa_32 Start: 26578, Stop: 26997, Start Num: 42

Candidate Starts for Mufasa_32:

(Start: 42 @26578 has 179 MA's), (49, 26605), (Start: 53 @26617 has 4 MA's), (61, 26647), (78, 26728), (79, 26734), (81, 26746), (86, 26767), (91, 26788), (92, 26791), (141, 26953), (146, 26965),

Gene: Mundrea_29 Start: 22067, Stop: 22495, Start Num: 42

Candidate Starts for Mundrea_29:

(Start: 42 @22067 has 179 MA's), (Start: 53 @22106 has 4 MA's), (56, 22115), (64, 22151), (78, 22208), (85, 22244), (92, 22271), (109, 22331), (113, 22346), (114, 22349), (120, 22373), (132, 22412), (136, 22433),

Gene: NadineRae_50 Start: 35788, Stop: 36291, Start Num: 34

Candidate Starts for NadineRae_50:

(21, 35734), (24, 35746), (25, 35752), (Start: 34 @35788 has 29 MA's), (39, 35821), (65, 35914), (74, 35956), (86, 36013), (88, 36022), (98, 36049), (117, 36118), (126, 36157), (137, 36208), (145, 36232),

Gene: NatB6_50 Start: 38744, Stop: 39250, Start Num: 34

Candidate Starts for NatB6_50:

(1, 38000), (9, 38513), (Start: 34 @38744 has 29 MA's), (50, 38816), (70, 38891), (85, 38966), (86, 38969), (114, 39062), (117, 39074), (126, 39113), (136, 39161), (137, 39164), (147, 39191), (152, 39218),

Gene: Nebs_29 Start: 22079, Stop: 22525, Start Num: 42

Candidate Starts for Nebs_29:

(13, 21857), (16, 21908), (Start: 42 @22079 has 179 MA's), (Start: 53 @22118 has 4 MA's), (Start: 57 @22130 has 14 MA's), (61, 22148), (Start: 63 @22160 has 2 MA's), (67, 22172), (68, 22181), (79, 22235), (81, 22247), (85, 22265), (92, 22292), (97, 22313), (114, 22376), (137, 22466), (138, 22469),

Gene: Nemo27_29 Start: 22081, Stop: 22527, Start Num: 42

Candidate Starts for Nemo27_29:

(13, 21859), (16, 21910), (Start: 42 @22081 has 179 MA's), (Start: 53 @22120 has 4 MA's), (Start: 57 @22132 has 14 MA's), (61, 22150), (Start: 63 @22162 has 2 MA's), (67, 22174), (68, 22183), (72, 22204), (79, 22237), (81, 22249), (92, 22294), (97, 22315), (114, 22378), (137, 22468), (138, 22471),

Gene: Noelle_29 Start: 22160, Stop: 22600, Start Num: 42

Candidate Starts for Noelle_29:

(Start: 42 @22160 has 179 MA's), (46, 22175), (52, 22196), (Start: 57 @22211 has 14 MA's), (Start: 63 @22241 has 2 MA's), (67, 22253), (79, 22310), (85, 22340), (92, 22367), (113, 22448), (114, 22451), (119, 22469), (122, 22487), (123, 22493),

Gene: NorthStar_29 Start: 22133, Stop: 22528, Start Num: 57

Candidate Starts for NorthStar_29:

(13, 21860), (16, 21911), (Start: 42 @22082 has 179 MA's), (Start: 53 @22121 has 4 MA's), (Start: 57 @22133 has 14 MA's), (61, 22151), (Start: 63 @22163 has 2 MA's), (67, 22175), (68, 22184), (79, 22238), (81, 22250), (92, 22295), (97, 22316), (114, 22379), (137, 22469), (138, 22472),

Gene: NosilaM_54 Start: 39645, Stop: 40154, Start Num: 31

Candidate Starts for NosilaM_54:

(9, 39414), (Start: 31 @39645 has 8 MA's), (98, 39903), (117, 39972), (128, 40020), (151, 40113), (152, 40119),

Gene: NotAPhaseMom_29 Start: 22137, Stop: 22532, Start Num: 57

Candidate Starts for NotAPhaseMom_29:

(13, 21864), (16, 21915), (Start: 42 @22086 has 179 MA's), (Start: 53 @22125 has 4 MA's), (Start: 57 @22137 has 14 MA's), (61, 22155), (Start: 63 @22167 has 2 MA's), (67, 22179), (68, 22188), (72, 22209), (79, 22242), (81, 22254), (92, 22299), (97, 22320), (114, 22383), (137, 22473), (138, 22476),

Gene: NovumRegina_50 Start: 39053, Stop: 39559, Start Num: 34

Candidate Starts for NovumRegina_50:

(2, 38606), (9, 38822), (Start: 34 @39053 has 29 MA's), (50, 39125), (70, 39200), (85, 39275), (86, 39278), (114, 39371), (117, 39383), (126, 39422), (136, 39470), (137, 39473), (147, 39500), (152, 39527),

Gene: Nyceirae_27 Start: 22280, Stop: 22768, Start Num: 33

Candidate Starts for Nyceirae_27:

(Start: 33 @22280 has 17 MA's), (50, 22355), (Start: 57 @22376 has 14 MA's), (Start: 60 @22391 has 1 MA's), (73, 22448), (80, 22484), (86, 22508), (104, 22571), (125, 22661), (128, 22676),

Gene: Nymphadora_23 Start: 21427, Stop: 21909, Start Num: 33

Candidate Starts for Nymphadora_23:

(17, 21337), (Start: 33 @21427 has 17 MA's), (47, 21487), (79, 21622), (83, 21640), (90, 21673), (112, 21751), (117, 21769), (127, 21817), (128, 21823), (129, 21829),

Gene: Nyxis_29 Start: 22025, Stop: 22471, Start Num: 42

Candidate Starts for Nyxis_29:

(13, 21803), (16, 21854), (Start: 42 @22025 has 179 MA's), (Start: 53 @22064 has 4 MA's), (Start: 57 @22076 has 14 MA's), (61, 22094), (Start: 63 @22106 has 2 MA's), (67, 22118), (68, 22127), (79, 22181), (85, 22211), (92, 22238), (97, 22259), (114, 22322), (137, 22412), (138, 22415),

Gene: OKCentral2016_30 Start: 22182, Stop: 22541, Start Num: 60

Candidate Starts for OKCentral2016_30:

(20, 22017), (30, 22071), (Start: 31 @22074 has 8 MA's), (Start: 42 @22116 has 179 MA's), (50, 22146), (Start: 60 @22182 has 1 MA's), (64, 22200), (70, 22224), (92, 22320), (114, 22395), (123, 22437), (132, 22458), (136, 22479), (137, 22482), (138, 22485),

Gene: OKaNui_30 Start: 22135, Stop: 22581, Start Num: 42

Candidate Starts for OKaNui_30:

(13, 21913), (16, 21964), (Start: 42 @22135 has 179 MA's), (Start: 53 @22174 has 4 MA's), (Start: 57 @22186 has 14 MA's), (61, 22204), (Start: 63 @22216 has 2 MA's), (67, 22228), (68, 22237), (79, 22291), (81, 22303), (92, 22348), (97, 22369), (114, 22432), (137, 22522), (138, 22525),

Gene: Oaker_36 Start: 33133, Stop: 33612, Start Num: 42

Candidate Starts for Oaker_36:

(23, 33040), (Start: 42 @33133 has 179 MA's), (45, 33145), (Start: 57 @33184 has 14 MA's), (66, 33223), (82, 33304), (85, 33319), (107, 33403), (108, 33406), (137, 33520),

Gene: Obama12_30 Start: 22398, Stop: 22844, Start Num: 42

Candidate Starts for Obama12_30:

(13, 22176), (16, 22227), (Start: 42 @22398 has 179 MA's), (46, 22413), (Start: 57 @22449 has 14 MA's), (Start: 63 @22479 has 2 MA's), (65, 22485), (67, 22491), (79, 22554), (85, 22584), (92, 22611), (97, 22632), (114, 22695), (136, 22782), (138, 22788),

Gene: Ohfah_29 Start: 22079, Stop: 22525, Start Num: 42

Candidate Starts for Ohfah_29:

(13, 21857), (16, 21908), (Start: 42 @22079 has 179 MA's), (Start: 53 @22118 has 4 MA's), (Start: 57 @22130 has 14 MA's), (61, 22148), (Start: 63 @22160 has 2 MA's), (67, 22172), (68, 22181), (79, 22235), (81, 22247), (85, 22265), (92, 22292), (97, 22313), (114, 22376), (137, 22466), (138, 22469),

Gene: Ohgeesy_23 Start: 21050, Stop: 21532, Start Num: 33

Candidate Starts for Ohgeesy_23:

(17, 20960), (Start: 33 @21050 has 17 MA's), (47, 21110), (79, 21245), (83, 21263), (90, 21296), (112, 21374), (117, 21392), (127, 21440), (128, 21446), (129, 21452),

Gene: Oscar_32 Start: 26898, Stop: 27320, Start Num: 42

Candidate Starts for Oscar_32:

(Start: 42 @26898 has 179 MA's), (Start: 53 @26937 has 4 MA's), (Start: 57 @26949 has 14 MA's), (61, 26967), (79, 27048), (92, 27105), (114, 27177), (115, 27180), (123, 27219),

Gene: Outis_52 Start: 39644, Stop: 40153, Start Num: 31

Candidate Starts for Outis_52:

(9, 39413), (Start: 31 @39644 has 8 MA's), (86, 39866), (87, 39872), (98, 39902), (117, 39971), (128, 40019), (151, 40112), (152, 40118),

Gene: Palestino_28 Start: 22082, Stop: 22528, Start Num: 42

Candidate Starts for Palestino_28:

(13, 21860), (16, 21911), (Start: 42 @22082 has 179 MA's), (Start: 53 @22121 has 4 MA's), (Start: 57 @22133 has 14 MA's), (61, 22151), (Start: 63 @22163 has 2 MA's), (67, 22175), (68, 22184), (79, 22238), (81, 22250), (85, 22268), (92, 22295), (97, 22316), (114, 22379), (137, 22469), (138, 22472),

Gene: Patio_54 Start: 39910, Stop: 40416, Start Num: 34

Candidate Starts for Patio_54:

(27, 39883), (Start: 34 @39910 has 29 MA's), (50, 39982), (79, 40102), (85, 40132), (125, 40276), (126, 40279), (143, 40348), (151, 40378), (152, 40384),

Gene: PeaceMeal1_29 Start: 20550, Stop: 20975, Start Num: 42

Candidate Starts for PeaceMeal1_29:

(20, 20448), (Start: 31 @20505 has 8 MA's), (Start: 42 @20550 has 179 MA's), (52, 20586), (Start: 53 @20589 has 4 MA's), (56, 20598), (Start: 57 @20601 has 14 MA's), (58, 20604), (Start: 60 @20616 has 1 MA's), (64, 20634), (70, 20658), (74, 20673), (78, 20691), (92, 20754), (95, 20769), (114, 20829), (119, 20847), (132, 20892), (136, 20913), (137, 20916),

Gene: Peaches_29 Start: 22081, Stop: 22527, Start Num: 42

Candidate Starts for Peaches_29:

(13, 21859), (16, 21910), (Start: 42 @22081 has 179 MA's), (Start: 53 @22120 has 4 MA's), (Start: 57 @22132 has 14 MA's), (61, 22150), (Start: 63 @22162 has 2 MA's), (67, 22174), (68, 22183), (79, 22237), (81, 22249), (92, 22294), (97, 22315), (114, 22378), (137, 22468), (138, 22471),

Gene: Perplexer_29 Start: 22100, Stop: 22540, Start Num: 42

Candidate Starts for Perplexer_29:

(Start: 42 @22100 has 179 MA's), (46, 22115), (52, 22136), (Start: 57 @22151 has 14 MA's), (58, 22154), (61, 22169), (Start: 63 @22181 has 2 MA's), (67, 22193), (79, 22250), (81, 22262), (92, 22307), (97, 22328), (114, 22391),

Gene: PeterPeter_29 Start: 22082, Stop: 22528, Start Num: 42

Candidate Starts for PeterPeter_29:

(13, 21860), (16, 21911), (Start: 42 @22082 has 179 MA's), (Start: 53 @22121 has 4 MA's), (Start: 57 @22133 has 14 MA's), (61, 22151), (Start: 63 @22163 has 2 MA's), (67, 22175), (68, 22184), (79, 22238), (81, 22250), (92, 22295), (97, 22316), (114, 22379), (137, 22469), (138, 22472),

Gene: PetiteSangsue_29 Start: 22103, Stop: 22543, Start Num: 42

Candidate Starts for PetiteSangsue_29:

(Start: 42 @22103 has 179 MA's), (46, 22118), (52, 22139), (Start: 57 @22154 has 14 MA's), (58, 22157), (61, 22172), (Start: 63 @22184 has 2 MA's), (67, 22196), (79, 22253), (81, 22265), (92, 22310), (97, 22331), (114, 22394),

Gene: Phacado_29 Start: 22081, Stop: 22527, Start Num: 42

Candidate Starts for Phacado_29:

(13, 21859), (16, 21910), (Start: 42 @22081 has 179 MA's), (Start: 53 @22120 has 4 MA's), (Start: 57 @22132 has 14 MA's), (61, 22150), (Start: 63 @22162 has 2 MA's), (67, 22174), (68, 22183), (72, 22204), (79, 22237), (81, 22249), (92, 22294), (97, 22315), (114, 22378), (137, 22468), (138, 22471),

Gene: Phaded_33 Start: 24365, Stop: 24796, Start Num: 42

Candidate Starts for Phaded_33:

(Start: 42 @24365 has 179 MA's), (52, 24401), (Start: 60 @24431 has 1 MA's), (69, 24470), (78, 24506), (92, 24569), (114, 24650), (117, 24662), (123, 24692), (136, 24734), (137, 24737), (138, 24740),

Gene: Phelipe_29 Start: 22082, Stop: 22528, Start Num: 42

Candidate Starts for Phelipe_29:

(13, 21860), (16, 21911), (Start: 42 @22082 has 179 MA's), (Start: 53 @22121 has 4 MA's), (Start: 57 @22133 has 14 MA's), (61, 22151), (Start: 63 @22163 has 2 MA's), (67, 22175), (68, 22184), (72, 22205), (79, 22238), (81, 22250), (92, 22295), (97, 22316), (114, 22379), (137, 22469), (138, 22472),

Gene: Phighter1804_29 Start: 22060, Stop: 22503, Start Num: 42

Candidate Starts for Phighter1804_29:

(13, 21838), (16, 21889), (Start: 42 @22060 has 179 MA's), (Start: 53 @22099 has 4 MA's), (59, 22117), (Start: 63 @22141 has 2 MA's), (85, 22246), (92, 22273), (99, 22294), (109, 22336), (114, 22354), (120, 22378), (123, 22396),

Gene: Phomeo_49 Start: 39394, Stop: 39828, Start Num: 50

Candidate Starts for Phomeo_49:

(9, 39091), (Start: 34 @39322 has 29 MA's), (50, 39394), (70, 39469), (85, 39544), (86, 39547), (114, 39640), (117, 39652), (126, 39691), (136, 39739), (137, 39742), (147, 39769), (152, 39796),

Gene: Phontbonne_29 Start: 22026, Stop: 22472, Start Num: 42

Candidate Starts for Phontbonne_29:

(13, 21804), (16, 21855), (Start: 42 @22026 has 179 MA's), (Start: 53 @22065 has 4 MA's), (Start: 57 @22077 has 14 MA's), (61, 22095), (Start: 63 @22107 has 2 MA's), (67, 22119), (68, 22128), (79, 22182), (81, 22194), (85, 22212), (92, 22239), (97, 22260), (114, 22323), (136, 22410), (138, 22416),

Gene: Phreeze_36 Start: 32876, Stop: 33355, Start Num: 42

Candidate Starts for Phreeze_36:

(23, 32783), (Start: 42 @32876 has 179 MA's), (45, 32888), (Start: 57 @32927 has 14 MA's), (66, 32966), (82, 33047), (85, 33062), (108, 33149), (137, 33263),

Gene: Pine5_18 Start: 14642, Stop: 15085, Start Num: 33

Candidate Starts for Pine5_18:

(Start: 33 @14642 has 17 MA's), (38, 14663), (44, 14690), (58, 14729), (83, 14843), (84, 14846), (88, 14867), (89, 14873), (104, 14912), (117, 14963), (118, 14966), (128, 15014), (134, 15047), (140, 15068),

Gene: Pipcraft_29 Start: 22082, Stop: 22528, Start Num: 42

Candidate Starts for Pipcraft_29:

(13, 21860), (16, 21911), (Start: 42 @22082 has 179 MA's), (Start: 53 @22121 has 4 MA's), (Start: 57 @22133 has 14 MA's), (61, 22151), (Start: 63 @22163 has 2 MA's), (67, 22175), (68, 22184), (79, 22238), (81, 22250), (92, 22295), (97, 22316), (114, 22379), (137, 22469), (138, 22472),

Gene: Pleakley_58 Start: 38851, Stop: 39360, Start Num: 34

Candidate Starts for Pleakley_58:

(19, 38776), (22, 38794), (26, 38821), (Start: 34 @38851 has 29 MA's), (51, 38926), (70, 38998), (72, 39010), (79, 39043), (85, 39073), (110, 39157), (125, 39217), (126, 39220), (130, 39238), (137, 39271), (144, 39292),

Gene: Polly_22 Start: 20867, Stop: 21349, Start Num: 33

Candidate Starts for Polly_22:

(17, 20777), (Start: 33 @20867 has 17 MA's), (58, 20966), (79, 21062), (81, 21074), (83, 21080), (90, 21113), (91, 21116), (112, 21191), (117, 21209), (127, 21257), (128, 21263),

Gene: Polymorphads_29 Start: 22079, Stop: 22525, Start Num: 42

Candidate Starts for Polymorphads_29:

(13, 21857), (16, 21908), (Start: 42 @22079 has 179 MA's), (Start: 53 @22118 has 4 MA's), (Start: 57 @22130 has 14 MA's), (61, 22148), (Start: 63 @22160 has 2 MA's), (67, 22172), (68, 22181), (79, 22235), (81, 22247), (85, 22265), (92, 22292), (97, 22313), (114, 22376), (137, 22466), (138, 22469),

Gene: Poompha_29 Start: 20548, Stop: 20973, Start Num: 42

Candidate Starts for Poompha_29:

(20, 20446), (Start: 31 @20503 has 8 MA's), (Start: 42 @20548 has 179 MA's), (52, 20584), (Start: 53 @20587 has 4 MA's), (56, 20596), (Start: 57 @20599 has 14 MA's), (58, 20602), (Start: 60 @20614 has 1 MA's), (64, 20632), (70, 20656), (74, 20671), (78, 20689), (92, 20752), (95, 20767), (114, 20827), (119, 20845), (132, 20890), (136, 20911), (137, 20914),

Gene: Predator_38 Start: 32067, Stop: 32546, Start Num: 42

Candidate Starts for Predator_38:

(Start: 42 @32067 has 179 MA's), (45, 32079), (46, 32082), (66, 32157), (78, 32217), (82, 32238), (92, 32280), (101, 32310), (114, 32361), (137, 32454),

Gene: Puissant_35 Start: 33364, Stop: 33843, Start Num: 42

Candidate Starts for Puissant_35:

(Start: 42 @33364 has 179 MA's), (Start: 57 @33415 has 14 MA's), (66, 33454), (82, 33535), (107, 33634), (113, 33655), (114, 33658), (137, 33751),

Gene: Pumbaa_29 Start: 22057, Stop: 22503, Start Num: 42

Candidate Starts for Pumbaa_29:

(13, 21835), (16, 21886), (Start: 42 @22057 has 179 MA's), (Start: 53 @22096 has 4 MA's), (Start: 57 @22108 has 14 MA's), (61, 22126), (Start: 63 @22138 has 2 MA's), (67, 22150), (68, 22159), (79, 22213), (81, 22225), (85, 22243), (92, 22270), (97, 22291), (114, 22354), (137, 22444), (138, 22447),

Gene: Rebeuca_31 Start: 22614, Stop: 23039, Start Num: 42

Candidate Starts for Rebeuca_31:

(20, 22509), (30, 22563), (Start: 31 @22566 has 8 MA's), (Start: 42 @22614 has 179 MA's), (Start: 53 @22653 has 4 MA's), (56, 22662), (Start: 60 @22680 has 1 MA's), (69, 22719), (70, 22722), (74, 22737), (78, 22755), (92, 22818), (114, 22893), (116, 22899), (132, 22956), (136, 22977), (138, 22983),

Gene: RedRaider_58 Start: 41932, Stop: 42441, Start Num: 34

Candidate Starts for RedRaider_58:

(19, 41857), (25, 41890), (Start: 34 @41932 has 29 MA's), (48, 41992), (50, 42004), (70, 42079), (79, 42124), (125, 42298), (126, 42301), (143, 42370),

Gene: RedRock_33 Start: 24334, Stop: 24762, Start Num: 42

Candidate Starts for RedRock_33:

(Start: 42 @24334 has 179 MA's), (52, 24370), (56, 24382), (69, 24439), (78, 24475), (92, 24538), (114, 24616), (123, 24658), (132, 24679), (136, 24700), (138, 24706),

Gene: Refuge_33 Start: 25341, Stop: 25766, Start Num: 42

Candidate Starts for Refuge_33:

(Start: 42 @25341 has 179 MA's), (Start: 57 @25392 has 14 MA's), (65, 25428), (71, 25455), (92, 25548), (95, 25563), (114, 25620), (120, 25644), (123, 25662), (146, 25731),

Gene: Relief_29 Start: 22131, Stop: 22526, Start Num: 57

Candidate Starts for Relief_29:

(13, 21858), (16, 21909), (Start: 42 @22080 has 179 MA's), (Start: 53 @22119 has 4 MA's), (Start: 57 @22131 has 14 MA's), (61, 22149), (Start: 63 @22161 has 2 MA's), (67, 22173), (68, 22182), (72, 22203), (79, 22236), (81, 22248), (92, 22293), (97, 22314), (114, 22377), (137, 22467), (138, 22470),

Gene: RhynO_31 Start: 22595, Stop: 23020, Start Num: 42

Candidate Starts for RhynO_31:

(20, 22493), (30, 22547), (Start: 31 @22550 has 8 MA's), (Start: 42 @22595 has 179 MA's), (Start: 60 @22661 has 1 MA's), (78, 22736), (92, 22799), (114, 22874), (117, 22886), (124, 22919), (132, 22937), (136, 22958), (137, 22961),

Gene: RoadKill_38 Start: 35572, Stop: 36063, Start Num: 37

Candidate Starts for RoadKill_38:

(Start: 37 @35572 has 6 MA's), (Start: 43 @35599 has 1 MA's), (Start: 60 @35659 has 1 MA's), (61, 35662), (65, 35680), (77, 35734), (91, 35800), (98, 35815), (110, 35860), (116, 35878), (126, 35923), (153, 36055),

Gene: Romney_29 Start: 22082, Stop: 22528, Start Num: 42

Candidate Starts for Romney_29:

(13, 21860), (16, 21911), (Start: 42 @22082 has 179 MA's), (Start: 53 @22121 has 4 MA's), (Start: 57 @22133 has 14 MA's), (61, 22151), (Start: 63 @22163 has 2 MA's), (67, 22175), (68, 22184), (79, 22238), (81, 22250), (92, 22295), (97, 22316), (114, 22379), (137, 22469), (138, 22472),

Gene: Roosevelt_29 Start: 22082, Stop: 22528, Start Num: 42

Candidate Starts for Roosevelt_29:

(13, 21860), (16, 21911), (Start: 42 @22082 has 179 MA's), (Start: 53 @22121 has 4 MA's), (Start: 57 @22133 has 14 MA's), (61, 22151), (Start: 63 @22163 has 2 MA's), (67, 22175), (68, 22184), (79, 22238), (81, 22250), (92, 22295), (97, 22316), (114, 22379), (137, 22469), (138, 22472),

Gene: Rosa24_28 Start: 22057, Stop: 22503, Start Num: 42

Candidate Starts for Rosa24_28:

(13, 21835), (16, 21886), (Start: 42 @22057 has 179 MA's), (Start: 53 @22096 has 4 MA's), (59, 22114), (Start: 63 @22138 has 2 MA's), (85, 22243), (92, 22270), (99, 22291), (109, 22333), (114, 22351), (120, 22375), (123, 22393),

Gene: Rowdy_34 Start: 22506, Stop: 22931, Start Num: 42

Candidate Starts for Rowdy_34:

(20, 22404), (30, 22458), (Start: 31 @22461 has 8 MA's), (Start: 42 @22506 has 179 MA's), (Start: 60 @22572 has 1 MA's), (78, 22647), (79, 22653), (86, 22686), (92, 22710), (114, 22785), (117, 22797), (124, 22830), (132, 22848), (136, 22869), (137, 22872),

Gene: Ruin_29 Start: 22078, Stop: 22524, Start Num: 42

Candidate Starts for Ruin_29:

(13, 21856), (16, 21907), (Start: 42 @22078 has 179 MA's), (Start: 53 @22117 has 4 MA's), (Start: 57 @22129 has 14 MA's), (61, 22147), (Start: 63 @22159 has 2 MA's), (67, 22171), (68, 22180), (79, 22234), (81, 22246), (92, 22291), (97, 22312), (114, 22375), (137, 22465), (138, 22468),

Gene: Sabertooth_29 Start: 22079, Stop: 22525, Start Num: 42

Candidate Starts for Sabertooth_29:

(13, 21857), (16, 21908), (Start: 42 @22079 has 179 MA's), (Start: 53 @22118 has 4 MA's), (Start: 57 @22130 has 14 MA's), (61, 22148), (Start: 63 @22160 has 2 MA's), (67, 22172), (68, 22181), (79, 22235), (81, 22247), (92, 22292), (97, 22313), (114, 22376), (137, 22466), (138, 22469),

Gene: Sbash_28 Start: 25821, Stop: 26231, Start Num: 42

Candidate Starts for Sbash_28:

(3, 25332), (9, 25542), (10, 25548), (11, 25593), (Start: 42 @25821 has 179 MA's), (Start: 57 @25872 has 14 MA's), (Start: 60 @25887 has 1 MA's), (61, 25890), (62, 25899), (71, 25935), (81, 25983), (85, 26001), (93, 26028), (117, 26100), (137, 26178), (142, 26193), (148, 26208),

Gene: Scamp_29 Start: 22082, Stop: 22528, Start Num: 42

Candidate Starts for Scamp_29:

(13, 21860), (16, 21911), (Start: 42 @22082 has 179 MA's), (Start: 53 @22121 has 4 MA's), (Start: 57 @22133 has 14 MA's), (61, 22151), (Start: 63 @22163 has 2 MA's), (67, 22175), (68, 22184), (79, 22238), (81, 22250), (85, 22268), (92, 22295), (97, 22316), (114, 22379), (137, 22469), (138, 22472),

Gene: Scarlett_32 Start: 26899, Stop: 27321, Start Num: 42

Candidate Starts for Scarlett_32:

(Start: 42 @26899 has 179 MA's), (Start: 53 @26938 has 4 MA's), (Start: 57 @26950 has 14 MA's), (61, 26968), (79, 27049), (92, 27106), (114, 27178), (115, 27181), (123, 27220),

Gene: Scuba_59 Start: 38895, Stop: 39434, Start Num: 26

Candidate Starts for Scuba_59:

(22, 38868), (26, 38895), (Start: 34 @38925 has 29 MA's), (51, 39000), (70, 39072), (72, 39084), (79, 39117), (125, 39291), (126, 39294), (130, 39312), (137, 39345), (144, 39366),

Gene: SenorClean_28 Start: 22133, Stop: 22528, Start Num: 57

Candidate Starts for SenorClean_28:

(13, 21860), (16, 21911), (Start: 42 @22082 has 179 MA's), (Start: 53 @22121 has 4 MA's), (Start: 57 @22133 has 14 MA's), (61, 22151), (Start: 63 @22163 has 2 MA's), (67, 22175), (68, 22184), (79, 22238), (81, 22250), (92, 22295), (97, 22316), (114, 22379), (137, 22469), (138, 22472),

Gene: Severus_29 Start: 20548, Stop: 20973, Start Num: 42

Candidate Starts for Severus_29:

(20, 20446), (Start: 31 @20503 has 8 MA's), (Start: 42 @20548 has 179 MA's), (52, 20584), (Start: 53 @20587 has 4 MA's), (56, 20596), (Start: 57 @20599 has 14 MA's), (58, 20602), (Start: 60 @20614 has 1 MA's), (64, 20632), (70, 20656), (74, 20671), (78, 20689), (92, 20752), (95, 20767), (114, 20827), (119, 20845), (132, 20890), (136, 20911), (137, 20914),

Gene: Shaka_29 Start: 22082, Stop: 22528, Start Num: 42

Candidate Starts for Shaka_29:

(13, 21860), (16, 21911), (Start: 42 @22082 has 179 MA's), (Start: 53 @22121 has 4 MA's), (Start: 57 @22133 has 14 MA's), (61, 22151), (Start: 63 @22163 has 2 MA's), (67, 22175), (68, 22184), (79, 22238), (81, 22250), (92, 22295), (97, 22316), (114, 22379), (137, 22469), (138, 22472),

Gene: Shapes_34 Start: 22506, Stop: 22931, Start Num: 42

Candidate Starts for Shapes_34:

(20, 22404), (30, 22458), (Start: 31 @22461 has 8 MA's), (Start: 42 @22506 has 179 MA's), (Start: 60 @22572 has 1 MA's), (78, 22647), (79, 22653), (86, 22686), (92, 22710), (114, 22785), (117, 22797), (124, 22830), (132, 22848), (136, 22869), (137, 22872),

Gene: SheldonCooper_30 Start: 22448, Stop: 22843, Start Num: 57

Candidate Starts for SheldonCooper_30:

(13, 22175), (16, 22226), (Start: 42 @22397 has 179 MA's), (46, 22412), (Start: 57 @22448 has 14 MA's), (Start: 63 @22478 has 2 MA's), (65, 22484), (67, 22490), (79, 22553), (85, 22583), (92, 22610), (97, 22631), (114, 22694), (136, 22781), (138, 22787),

Gene: Shygu2_29 Start: 22094, Stop: 22534, Start Num: 42

Candidate Starts for Shygu2_29:

(Start: 42 @22094 has 179 MA's), (46, 22109), (52, 22130), (56, 22142), (Start: 57 @22145 has 14 MA's), (58, 22148), (61, 22163), (Start: 63 @22175 has 2 MA's), (67, 22187), (79, 22244), (81, 22256), (92, 22301), (97, 22322), (114, 22385),

Gene: Skipitt_29 Start: 22118, Stop: 22525, Start Num: 53

Candidate Starts for Skipitt_29:

(13, 21857), (16, 21908), (Start: 42 @22079 has 179 MA's), (Start: 53 @22118 has 4 MA's), (Start: 57 @22130 has 14 MA's), (61, 22148), (Start: 63 @22160 has 2 MA's), (67, 22172), (68, 22181), (79, 22235), (81, 22247), (92, 22292), (97, 22313), (114, 22376), (137, 22466), (138, 22469),

Gene: Skysand_53 Start: 40130, Stop: 40636, Start Num: 34

Candidate Starts for Skysand_53:

(19, 40055), (25, 40088), (Start: 34 @40130 has 29 MA's), (48, 40190), (50, 40202), (62, 40247), (79, 40322), (86, 40355), (125, 40496), (126, 40499), (137, 40550), (143, 40568), (147, 40577), (152, 40604),

Gene: Sparky_29 Start: 27110, Stop: 27520, Start Num: 42

Candidate Starts for Sparky_29:

(4, 26702), (9, 26831), (10, 26837), (11, 26882), (Start: 42 @27110 has 179 MA's), (Start: 57 @27161 has 14 MA's), (Start: 60 @27176 has 1 MA's), (61, 27179), (62, 27188), (71, 27224), (81, 27272), (93, 27317), (134, 27458), (137, 27467), (142, 27482), (148, 27497),

Gene: Sparxx_29 Start: 22080, Stop: 22526, Start Num: 42

Candidate Starts for Sparxx_29:

(13, 21858), (16, 21909), (Start: 42 @22080 has 179 MA's), (Start: 53 @22119 has 4 MA's), (Start: 57 @22131 has 14 MA's), (61, 22149), (Start: 63 @22161 has 2 MA's), (67, 22173), (68, 22182), (79, 22236), (81, 22248), (92, 22293), (97, 22314), (114, 22377), (137, 22467), (138, 22470),

Gene: Spino_29 Start: 22082, Stop: 22528, Start Num: 42

Candidate Starts for Spino_29:

(13, 21860), (16, 21911), (Start: 42 @22082 has 179 MA's), (Start: 53 @22121 has 4 MA's), (Start: 57 @22133 has 14 MA's), (61, 22151), (Start: 63 @22163 has 2 MA's), (67, 22175), (68, 22184), (79, 22238), (81, 22250), (92, 22295), (97, 22316), (114, 22379), (137, 22469), (138, 22472),

Gene: StarStruck_52 Start: 39644, Stop: 40153, Start Num: 31

Candidate Starts for StarStruck_52:

(9, 39413), (Start: 31 @39644 has 8 MA's), (86, 39866), (87, 39872), (98, 39902), (117, 39971), (128, 40019), (151, 40112), (152, 40118),

Gene: Stasia_30 Start: 22574, Stop: 22963, Start Num: 57

Candidate Starts for Stasia_30:

(Start: 42 @22523 has 179 MA's), (46, 22538), (52, 22559), (Start: 57 @22574 has 14 MA's), (Start: 63 @22604 has 2 MA's), (67, 22616), (79, 22673), (85, 22703), (92, 22730), (114, 22814), (117, 22826), (119, 22832), (122, 22850), (136, 22901),

Gene: Steamy_31 Start: 23486, Stop: 23908, Start Num: 42

Candidate Starts for Steamy_31:

(Start: 42 @23486 has 179 MA's), (52, 23522), (Start: 53 @23525 has 4 MA's), (65, 23573), (92, 23693), (114, 23765), (131, 23825), (137, 23855),

Gene: Stink_30 Start: 22383, Stop: 22811, Start Num: 42

Candidate Starts for Stink_30:

(Start: 42 @22383 has 179 MA's), (52, 22419), (Start: 53 @22422 has 4 MA's), (56, 22431), (69, 22488), (78, 22524), (79, 22530), (83, 22548), (85, 22560), (92, 22587), (113, 22662), (114, 22665), (124, 22710), (132, 22728), (136, 22749), (138, 22755),

Gene: Strobilo_31 Start: 26470, Stop: 26889, Start Num: 42

Candidate Starts for Strobilo_31:

(Start: 42 @26470 has 179 MA's), (49, 26497), (Start: 53 @26509 has 4 MA's), (61, 26539), (66, 26560), (78, 26620), (81, 26638), (84, 26647), (86, 26659), (92, 26683), (106, 26710), (109, 26725), (141, 26845), (146, 26857),

Gene: Sukkupi_51 Start: 38094, Stop: 38597, Start Num: 34

Candidate Starts for Sukkupi_51:

(21, 38040), (24, 38052), (25, 38058), (Start: 34 @38094 has 29 MA's), (39, 38127), (80, 38295), (86, 38319), (88, 38328), (98, 38355), (112, 38406), (117, 38424), (126, 38463), (137, 38514), (145, 38538),

Gene: SuperSulley_52 Start: 39812, Stop: 40321, Start Num: 31

Candidate Starts for SuperSulley_52:

(9, 39581), (Start: 31 @39812 has 8 MA's), (98, 40070), (117, 40139), (128, 40187), (151, 40280), (152, 40286),

Gene: TM4_33 Start: 26676, Stop: 27095, Start Num: 42

Candidate Starts for TM4_33:

(Start: 42 @26676 has 179 MA's), (49, 26703), (Start: 53 @26715 has 4 MA's), (61, 26745), (78, 26826), (79, 26832), (84, 26853), (86, 26865), (92, 26889), (141, 27051), (146, 27063),

Gene: TPA2_25 Start: 16114, Stop: 16566, Start Num: 37

Candidate Starts for TPA2_25:

(Start: 37 @16114 has 6 MA's), (48, 16156), (Start: 53 @16174 has 4 MA's), (54, 16177), (77, 16276), (105, 16378), (110, 16402), (118, 16429), (126, 16465), (131, 16486), (133, 16498),

Gene: Taquarus_29 Start: 22085, Stop: 22531, Start Num: 42

Candidate Starts for Taquarus_29:

(13, 21863), (16, 21914), (Start: 42 @22085 has 179 MA's), (Start: 53 @22124 has 4 MA's), (Start: 57 @22136 has 14 MA's), (61, 22154), (Start: 63 @22166 has 2 MA's), (67, 22178), (68, 22187), (72, 22208), (79, 22241), (81, 22253), (92, 22298), (97, 22319), (114, 22382), (137, 22472), (138, 22475),

Gene: Thanksgivukkah_29 Start: 22086, Stop: 22529, Start Num: 42

Candidate Starts for Thanksgivukkah_29:

(13, 21864), (16, 21915), (Start: 42 @22086 has 179 MA's), (Start: 53 @22125 has 4 MA's), (59, 22143), (Start: 63 @22167 has 2 MA's), (79, 22242), (85, 22272), (92, 22299), (99, 22320), (109, 22362), (114, 22380), (120, 22404), (123, 22422),

Gene: ThankyouJordi_22 Start: 21402, Stop: 21884, Start Num: 33

Candidate Starts for ThankyouJordi_22:

(14, 21234), (17, 21312), (Start: 33 @21402 has 17 MA's), (40, 21441), (79, 21597), (81, 21609), (83, 21615), (90, 21648), (91, 21651), (112, 21726), (117, 21744), (127, 21792),

Gene: Thumb_36 Start: 32873, Stop: 33352, Start Num: 42

Candidate Starts for Thumb_36:

(23, 32780), (Start: 42 @32873 has 179 MA's), (45, 32885), (Start: 57 @32924 has 14 MA's), (66, 32963), (82, 33044), (85, 33059), (107, 33143), (108, 33146), (137, 33260),

Gene: Tiamoceli_41 Start: 36905, Stop: 37396, Start Num: 37

Candidate Starts for Tiamoceli_41:

(Start: 37 @36905 has 6 MA's), (Start: 43 @36932 has 1 MA's), (Start: 60 @36992 has 1 MA's), (61, 36995), (65, 37013), (77, 37067), (91, 37133), (98, 37148), (110, 37193), (116, 37211), (126, 37256), (153, 37388),

Gene: TimTam_23 Start: 21427, Stop: 21909, Start Num: 33

Candidate Starts for TimTam_23:

(17, 21337), (Start: 33 @21427 has 17 MA's), (47, 21487), (79, 21622), (83, 21640), (90, 21673), (112, 21751), (117, 21769), (127, 21817), (128, 21823), (129, 21829),

Gene: Timshel_30 Start: 25135, Stop: 25563, Start Num: 42

Candidate Starts for Timshel_30:

(Start: 42 @25135 has 179 MA's), (46, 25150), (52, 25171), (Start: 53 @25174 has 4 MA's), (56, 25183), (66, 25225), (69, 25240), (80, 25291), (85, 25312), (92, 25339), (114, 25417), (117, 25429), (119, 25435), (120, 25441), (132, 25480), (136, 25501),

Gene: TinaFeyge_29 Start: 22079, Stop: 22525, Start Num: 42

Candidate Starts for TinaFeyge_29:

(13, 21857), (16, 21908), (Start: 42 @22079 has 179 MA's), (Start: 53 @22118 has 4 MA's), (Start: 57 @22130 has 14 MA's), (61, 22148), (Start: 63 @22160 has 2 MA's), (67, 22172), (68, 22181), (79, 22235), (81, 22247), (92, 22292), (97, 22313), (114, 22376), (137, 22466), (138, 22469),

Gene: Tinybot_28 Start: 22062, Stop: 22505, Start Num: 42

Candidate Starts for Tinybot_28:

(13, 21840), (16, 21891), (Start: 42 @22062 has 179 MA's), (Start: 53 @22101 has 4 MA's), (59, 22119), (Start: 63 @22143 has 2 MA's), (85, 22248), (92, 22275), (99, 22296), (109, 22338), (114, 22356), (120, 22380), (123, 22398),

Gene: TiroTheta9_29 Start: 22079, Stop: 22525, Start Num: 42

Candidate Starts for TiroTheta9_29:

(13, 21857), (16, 21908), (Start: 42 @22079 has 179 MA's), (Start: 53 @22118 has 4 MA's), (Start: 57 @22130 has 14 MA's), (61, 22148), (Start: 63 @22160 has 2 MA's), (67, 22172), (68, 22181), (79, 22235), (81, 22247), (92, 22292), (97, 22313), (114, 22376), (137, 22466), (138, 22469),

Gene: Topanga_30 Start: 22541, Stop: 22963, Start Num: 42

Candidate Starts for Topanga_30:

(20, 22439), (30, 22493), (Start: 31 @22496 has 8 MA's), (Start: 42 @22541 has 179 MA's), (50, 22571), (52, 22577), (Start: 57 @22592 has 14 MA's), (59, 22598), (69, 22646), (74, 22664), (92, 22745), (95, 22760), (114, 22820), (122, 22856), (123, 22862), (136, 22904), (137, 22907), (138, 22910),

Gene: Tracker_50 Start: 38471, Stop: 38977, Start Num: 34

Candidate Starts for Tracker_50:

(2, 38024), (9, 38240), (Start: 34 @38471 has 29 MA's), (50, 38543), (70, 38618), (86, 38696), (114, 38789), (117, 38801), (126, 38840), (136, 38888), (137, 38891), (147, 38918), (152, 38945),

Gene: Trike_28 Start: 20556, Stop: 20981, Start Num: 42

Candidate Starts for Trike_28:

(20, 20454), (Start: 31 @20511 has 8 MA's), (Start: 42 @20556 has 179 MA's), (52, 20592), (Start: 53 @20595 has 4 MA's), (56, 20604), (Start: 57 @20607 has 14 MA's), (58, 20610), (Start: 60 @20622 has 1 MA's), (64, 20640), (70, 20664), (74, 20679), (78, 20697), (86, 20736), (92, 20760), (95, 20775), (114, 20835), (119, 20853), (132, 20898), (136, 20919), (137, 20922),

Gene: TroyPia_29 Start: 22082, Stop: 22528, Start Num: 42

Candidate Starts for TroyPia_29:

(13, 21860), (16, 21911), (Start: 42 @22082 has 179 MA's), (Start: 53 @22121 has 4 MA's), (Start: 57 @22133 has 14 MA's), (61, 22151), (Start: 63 @22163 has 2 MA's), (67, 22175), (68, 22184), (79, 22238), (81, 22250), (92, 22295), (97, 22316), (114, 22379), (137, 22469), (138, 22472),

Gene: Turuncu_55 Start: 40057, Stop: 40566, Start Num: 34

Candidate Starts for Turuncu_55:

(25, 40015), (Start: 34 @40057 has 29 MA's), (50, 40129), (85, 40279), (125, 40423), (126, 40426), (143, 40495), (152, 40534),

Gene: Twister_30 Start: 22447, Stop: 22872, Start Num: 42

Candidate Starts for Twister_30:

(20, 22342), (30, 22396), (Start: 31 @22399 has 8 MA's), (Start: 42 @22447 has 179 MA's), (Start: 53 @22486 has 4 MA's), (56, 22495), (Start: 60 @22513 has 1 MA's), (69, 22552), (70, 22555), (74, 22570), (78, 22588), (92, 22651), (114, 22726), (116, 22732), (132, 22789), (136, 22810), (138, 22816),

Gene: Twonlo_38 Start: 35523, Stop: 36014, Start Num: 37

Candidate Starts for Twonlo_38:

(Start: 37 @35523 has 6 MA's), (Start: 43 @35550 has 1 MA's), (Start: 60 @35610 has 1 MA's), (61, 35613), (65, 35631), (77, 35685), (91, 35751), (98, 35766), (110, 35811), (116, 35829), (126, 35874),

(153, 36006),

Gene: TygerBlood_29 Start: 22133, Stop: 22528, Start Num: 57

Candidate Starts for TygerBlood_29:

(13, 21860), (16, 21911), (Start: 42 @22082 has 179 MA's), (Start: 53 @22121 has 4 MA's), (Start: 57 @22133 has 14 MA's), (61, 22151), (Start: 63 @22163 has 2 MA's), (67, 22175), (68, 22184), (79, 22238), (81, 22250), (92, 22295), (97, 22316), (114, 22379), (137, 22469), (138, 22472),

Gene: Ulysses_28 Start: 21803, Stop: 22246, Start Num: 42

Candidate Starts for Ulysses_28:

(13, 21581), (16, 21632), (Start: 42 @21803 has 179 MA's), (Start: 53 @21842 has 4 MA's), (59, 21860), (Start: 63 @21884 has 2 MA's), (85, 21989), (92, 22016), (99, 22037), (109, 22079), (114, 22097), (120, 22121), (123, 22139),

Gene: VanLee_30 Start: 25581, Stop: 26066, Start Num: 32

Candidate Starts for VanLee_30:

(Start: 32 @25581 has 1 MA's), (36, 25599), (Start: 60 @25692 has 1 MA's), (76, 25761), (86, 25809), (87, 25815), (91, 25830), (104, 25872), (105, 25875), (125, 25962), (128, 25977), (129, 25983),

Gene: Vordorf_26 Start: 21985, Stop: 22497, Start Num: 33

Candidate Starts for Vordorf_26:

(Start: 33 @21985 has 17 MA's), (50, 22060), (51, 22063), (55, 22075), (73, 22153), (77, 22168), (80, 22189), (94, 22249), (127, 22375), (128, 22381), (150, 22468),

Gene: WalterMcMickey_30 Start: 22447, Stop: 22872, Start Num: 42

Candidate Starts for WalterMcMickey_30:

(20, 22342), (30, 22396), (Start: 31 @22399 has 8 MA's), (Start: 42 @22447 has 179 MA's), (Start: 53 @22486 has 4 MA's), (56, 22495), (Start: 60 @22513 has 1 MA's), (69, 22552), (70, 22555), (74, 22570), (78, 22588), (92, 22651), (114, 22726), (116, 22732), (132, 22789), (136, 22810), (138, 22816),

Gene: Wander_29 Start: 22082, Stop: 22528, Start Num: 42

Candidate Starts for Wander_29:

(13, 21860), (16, 21911), (Start: 42 @22082 has 179 MA's), (Start: 53 @22121 has 4 MA's), (Start: 57 @22133 has 14 MA's), (61, 22151), (Start: 63 @22163 has 2 MA's), (67, 22175), (68, 22184), (79, 22238), (81, 22250), (92, 22295), (97, 22316), (114, 22379), (137, 22469), (138, 22472),

Gene: WelcomeAyanna_22 Start: 21402, Stop: 21884, Start Num: 33

Candidate Starts for WelcomeAyanna_22:

(14, 21234), (17, 21312), (Start: 33 @21402 has 17 MA's), (40, 21441), (79, 21597), (81, 21609), (83, 21615), (90, 21648), (91, 21651), (112, 21726), (117, 21744), (127, 21792),

Gene: Wheezy_50 Start: 38676, Stop: 39182, Start Num: 34

Candidate Starts for Wheezy_50:

(1, 37932), (9, 38445), (Start: 34 @38676 has 29 MA's), (50, 38748), (70, 38823), (85, 38898), (86, 38901), (114, 38994), (117, 39006), (126, 39045), (136, 39093), (137, 39096), (147, 39123), (152, 39150),

Gene: WhoseManz_51 Start: 36154, Stop: 36657, Start Num: 34

Candidate Starts for WhoseManz_51:

(24, 36112), (25, 36118), (Start: 34 @36154 has 29 MA's), (38, 36178), (39, 36187), (86, 36379), (88, 36388), (98, 36415), (117, 36484), (126, 36523), (137, 36574), (145, 36598),

Gene: Wilbur_29 Start: 22082, Stop: 22528, Start Num: 42

Candidate Starts for Wilbur_29:

(13, 21860), (16, 21911), (Start: 42 @22082 has 179 MA's), (Start: 53 @22121 has 4 MA's), (Start: 57 @22133 has 14 MA's), (61, 22151), (Start: 63 @22163 has 2 MA's), (67, 22175), (68, 22184), (79, 22238), (81, 22250), (92, 22295), (97, 22316), (114, 22379), (137, 22469), (138, 22472),

Gene: Wile_29 Start: 22113, Stop: 22553, Start Num: 42

Candidate Starts for Wile_29:

(Start: 42 @22113 has 179 MA's), (46, 22128), (52, 22149), (Start: 57 @22164 has 14 MA's), (58, 22167), (61, 22182), (Start: 63 @22194 has 2 MA's), (67, 22206), (79, 22263), (81, 22275), (92, 22320), (97, 22341), (114, 22404),

Gene: Wizard007_29 Start: 22084, Stop: 22530, Start Num: 42

Candidate Starts for Wizard007_29:

(13, 21862), (16, 21913), (Start: 42 @22084 has 179 MA's), (Start: 53 @22123 has 4 MA's), (Start: 57 @22135 has 14 MA's), (61, 22153), (Start: 63 @22165 has 2 MA's), (67, 22177), (68, 22186), (79, 22240), (81, 22252), (92, 22297), (97, 22318), (114, 22381), (137, 22471), (138, 22474),

Gene: Xena_29 Start: 22100, Stop: 22540, Start Num: 42

Candidate Starts for Xena_29:

(Start: 42 @22100 has 179 MA's), (46, 22115), (52, 22136), (Start: 57 @22151 has 14 MA's), (58, 22154), (61, 22169), (Start: 63 @22181 has 2 MA's), (67, 22193), (79, 22250), (81, 22262), (92, 22307), (97, 22328), (114, 22391),

Gene: Yndexa_51 Start: 38094, Stop: 38597, Start Num: 34

Candidate Starts for Yndexa_51:

(21, 38040), (24, 38052), (25, 38058), (Start: 34 @38094 has 29 MA's), (39, 38127), (80, 38295), (86, 38319), (88, 38328), (98, 38355), (112, 38406), (117, 38424), (126, 38463), (137, 38514), (145, 38538),

Gene: YoSam321_29 Start: 22079, Stop: 22525, Start Num: 42

Candidate Starts for YoSam321_29:

(13, 21857), (16, 21908), (Start: 42 @22079 has 179 MA's), (Start: 53 @22118 has 4 MA's), (Start: 57 @22130 has 14 MA's), (61, 22148), (Start: 63 @22160 has 2 MA's), (67, 22172), (68, 22181), (79, 22235), (81, 22247), (92, 22292), (97, 22313), (114, 22376), (137, 22466), (138, 22469),

Gene: Zirinka_23 Start: 21439, Stop: 21921, Start Num: 33

Candidate Starts for Zirinka_23:

(17, 21349), (Start: 33 @21439 has 17 MA's), (47, 21499), (79, 21634), (83, 21652), (90, 21685), (112, 21763), (117, 21781), (127, 21829), (128, 21835), (129, 21841),

Gene: ZoeJ_31 Start: 26475, Stop: 26894, Start Num: 42

Candidate Starts for ZoeJ_31:

(Start: 42 @26475 has 179 MA's), (49, 26502), (Start: 53 @26514 has 4 MA's), (61, 26544), (78, 26625), (81, 26643), (84, 26652), (86, 26664), (92, 26688), (106, 26715), (141, 26850), (146, 26862),