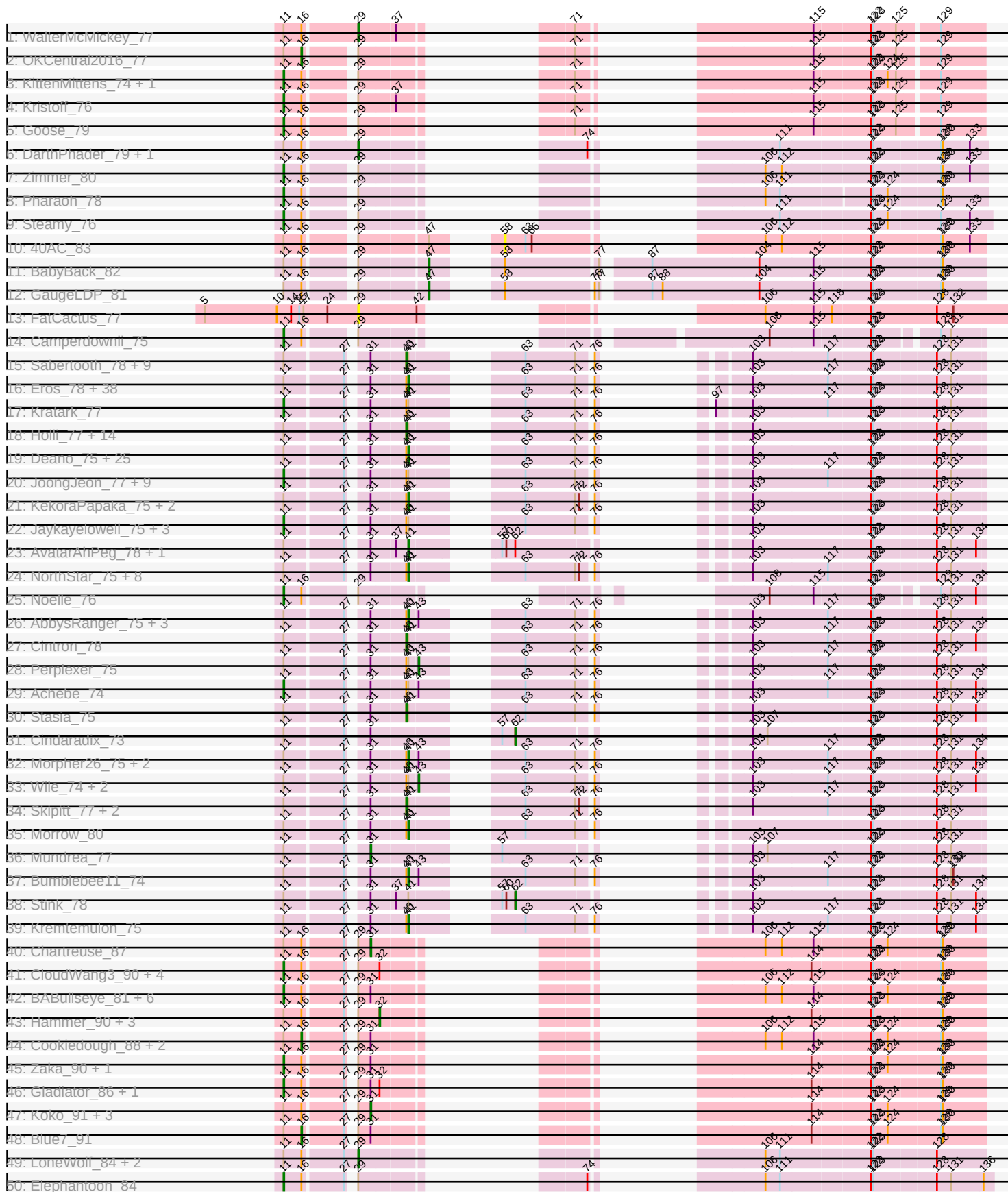
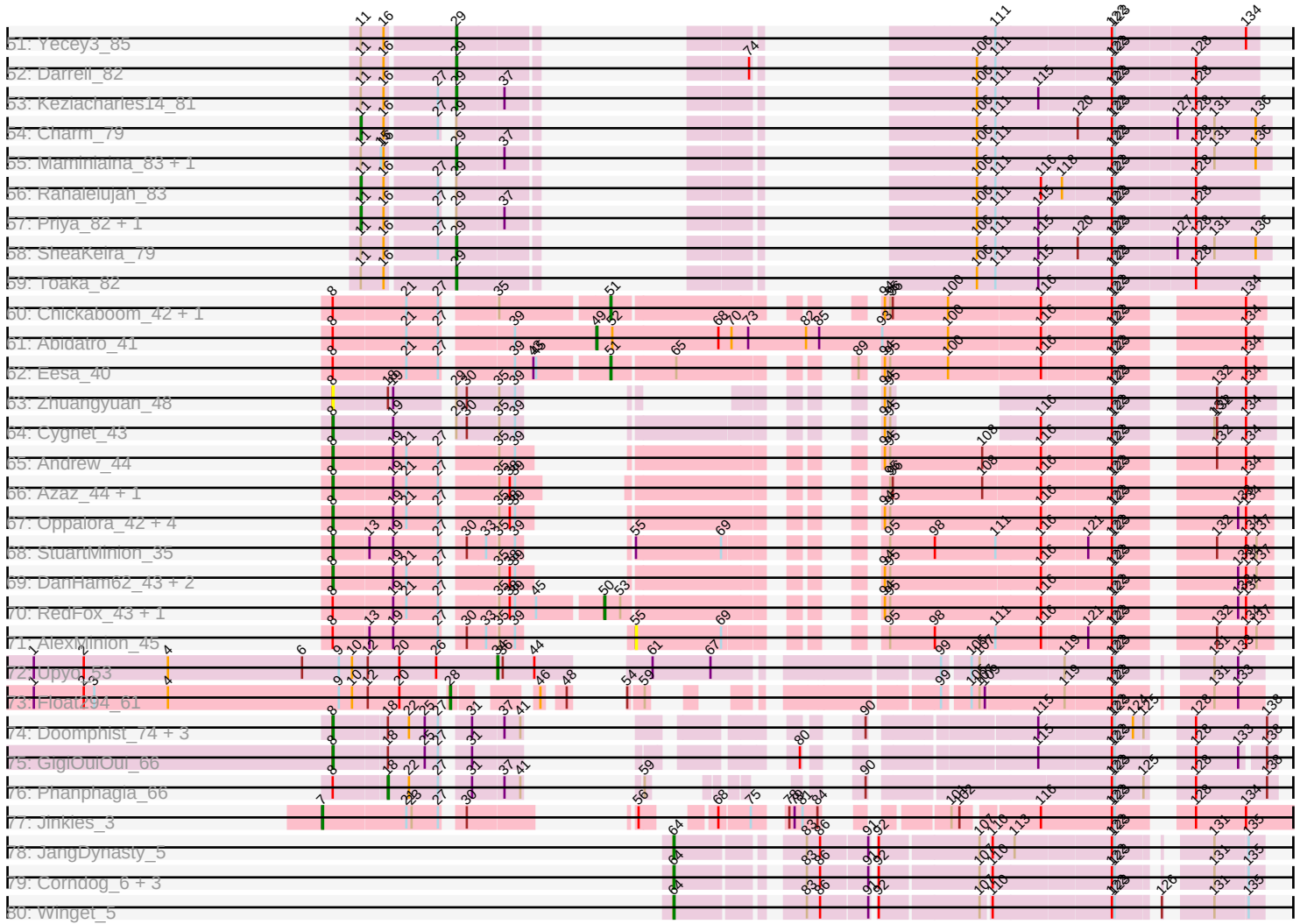






Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly 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 280071 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280071 has 239 members, 15 are drafts.

Phages represented in each track:

- Track 1 : WalterMcMickey_77
- Track 2 : OKCentral2016_77
- Track 3 : KittenMittens_74, Drake94_75
- Track 4 : Kristoff_76
- Track 5 : Goose_79
- Track 6 : DarthPhader_79, Refuge_81
- Track 7 : Zimmer_80
- Track 8 : Pharaoh_78
- Track 9 : Steamy_76
- Track 10 : 40AC_83
- Track 11 : BabyBack_82
- Track 12 : GaugeLDP_81
- Track 13 : FatCactus_77
- Track 14 : Camperdownii_75
- Track 15 : Sabertooth_78, Mazhar510_78, Connomayer_78, Pumbaa_78, Polymorphads_79, Koreni_77, LHTSCC_80, Tinybot_77, TygerBlood_78, Sultana_78
- Track 16 : Eros_78, Commander_76, DirtyDunning_77, Iceman_76, MeeZee_77, Obama12_79, OKaNui_77, Maverick_77, Koan_75, Happiness_77, Peaches_76, Burger_76, Phacado_78, Huxley_67, Eapen_78, PeterPeter_78, Avle17_78, Broseidon_78, Datway_75, Lorenzo_78, Cocoaberry_78, ICleared_77, Annyong_77, Alberto7_79, Wander_78, Relief_77, Kyee_78, Arturo_75, LittleGuy_78, Scamp_78, HamSlice_74, Nemo27_77, LappelDuVide_78, Gadost_78, Millski_77, Houdini22_77, NotAPhaseMom_77, Phighter1804_78, Xena_74
- Track 17 : Kratak_77
- Track 18 : Holli_77, Kingmustik0402_78, TroyPia_79, Sparxx_79, Blackmoor_77, Maxo_80, Ohfah_79, JetBlade_79, Nyxis_77, Bartimeaus_78, BangNhom_75, YoSam321_78, Baby16_78, Rosa24_74, Eurydice_79
- Track 19 : Deano_75, TiroTheta9_77, Caelakin_76, LochMonster_79, Kampy_77, Eagle_77, Iracema64_78, Spino_77, Shaka_76, Lunsford_78, BellusTerra_79, SenorClean_79, Roosevelt_76, Phelipe_79, Abdiel_77, Taquarus_77, SheldonCooper_78, Cerulean_80, CentreCat_78, Citius_78, Phontbonne_78, Nebs_79, Medusa_77, Ulysses_77, Druantia_77, ChampagnePapi_81
- Track 20 : JoongJeon_77, Clarenza_77, BubbleTrouble_77, Palestino_77, KFPoly_77, Albee_78, Thanksgivukkah_77, LittleB_78, Eris_77, Funston_77
- Track 21 : KekoraPapaka_75, Dhanush_78, Chap_78
- Track 22 : Jaykayelowell_75, Florean_78, Bruiser_77, TinaFeyge_76
- Track 23 : AvatarAhPeg_78, Miramae_78

- Track 24 : NorthStar_75, Romney_77, Melvin_80, Wilbur_78, Pipcraft_74, Ruin_78, SteMason_74, Lemur_78, Flux_79
- Track 25 : Noelle_76
- Track 26 : AbbysRanger_75, Badger_74, PetiteSangsue_75, Backyardigan_73
- Track 27 : Cintron_78
- Track 28 : Perplexer_75
- Track 29 : Achebe_74
- Track 30 : Stasia_75
- Track 31 : Cindaradix_73
- Track 32 : Morpher26_75, Shygu2_76, Cici_75
- Track 33 : Wile_74, Wizard007_75, Katalie136_75
- Track 34 : Skipitt_77, RockieBear_75, Bombshell_78
- Track 35 : Morrow_80
- Track 36 : Mundrea_77
- Track 37 : Bumblebee11_74
- Track 38 : Stink_78
- Track 39 : Kremtemulon_75
- Track 40 : Chartreuse_87
- Track 41 : CloudWang3_90, Roksolana_90, Hexamo_89, Rifter_90, Artemis2UCLA_89
- Track 42 : BABullseye_81, Dorothea_88, Hoot_83, Polyphemus_81, Jordennis_86, Isiphiwo_84, JewelBug_80
- Track 43 : Hammer_90, BlessJoy_90, ToneTone_87, Tucker_90
- Track 44 : Cookiedough_88, Kazan_89, SmellyB_88
- Track 45 : Zaka_90, Wiks_89
- Track 46 : Gladiator_86, Gruunaga_89
- Track 47 : Koko_91, Yokurt_89, Temprado_91, Helmet_92
- Track 48 : Blue7_91
- Track 49 : LoneWolf_84, Vanisoa_79, Arissanae_79
- Track 50 : Elephantoon_84
- Track 51 : Yecey3_85
- Track 52 : Darrell_82
- Track 53 : Keziacharles14_81
- Track 54 : Charm_79
- Track 55 : Maminiaina_83, BogosyJay_83
- Track 56 : Rahalelujah_83
- Track 57 : Priya_82, Spouty_82
- Track 58 : SheaKeira_79
- Track 59 : Toaka_82
- Track 60 : Chickaboom_42, WileyE_46
- Track 61 : Abidatro_41
- Track 62 : Eesa_40
- Track 63 : Zhuangyuan_48
- Track 64 : Cygnet_43
- Track 65 : Andrew_44
- Track 66 : Azaz_44, Leona_42
- Track 67 : Oppalora_42, Fingolfin_43, Juno112_42, HamCheese_43, Laphuphu24k_42
- Track 68 : StuartMinion_35
- Track 69 : DanHam62_43, AmiCi24_42, Atlantica_43
- Track 70 : RedFox_43, PhluffyCoco_43
- Track 71 : AlexMinion_45
- Track 72 : Upyo_53

- Track 73 : Float294_61
- Track 74 : Doomphist_74, Poenanya_74, RedBird_72, Empress_69
- Track 75 : GigiOuiOui_66
- Track 76 : Phanphagia_66
- Track 77 : Jinkies_3
- Track 78 : JangDynasty_5
- Track 79 : Corndog_6, YungJamal_6, Firecracker_5, Smooch_6
- Track 80 : Winget_5

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

The start number called the most often in the published annotations is 41, it was called in 86 of the 224 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AbbysRanger_75, Abdiel_77, Alberto7_79, Annyong_77, Arturo_75, AvatarAhPeg_78, Avle17_78, Backyardigan_73, Badger_74, BellusTerra_79, Broseidon_78, Bumblebee11_74, Burger_76, Caelakin_76, CentreCat_78, Cerulean_80, ChampagnePapi_81, Chaph_78, Cici_75, Citius_78, Cocoaberry_78, Commander_76, Datway_75, Deano_75, Dhanush_78, DirtyDunning_77, Druantia_77, Eagle_77, Eapen_78, Eros_78, Flux_79, Gadost_78, HamSlice_74, Happiness_77, Houdini22_77, Huxley_67, ICleared_77, Iceman_76, Iracema64_78, Kamy_77, KekoraPapaka_75, Koan_75, Kremtemulon_75, Kyee_78, LappelDuVide_78, Lemur_78, LittleGuy_78, LochMonster_79, Lorenzo_78, Lunsford_78, Maverick_77, Medusa_77, MeeZee_77, Melvin_80, Millski_77, Miramae_78, Morpher26_75, Morrow_80, Nebs_79, Nemo27_77, NorthStar_75, NotAPhaseMom_77, OKaNui_77, Obama12_79, Peaches_76, PeterPeter_78, PetiteSangsue_75, Phacado_78, Felipe_79, Phighter1804_78, Phontbonne_78, Pipcraft_74, Relief_77, Romney_77, Roosevelt_76, Ruin_78, Scamp_78, SenorClean_79, Shaka_76, SheldonCooper_78, Shygu2_76, Spino_77, SteMason_74, Taquarus_77, TiroTheta9_77, Ulysses_77, Wander_78, Wilbur_78, Xena_74,

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

- Achebe_74, Albee_78, Baby16_78, BangNhom_75, Bartimeaus_78, Blackmoor_77, Bombshell_78, Bruiser_77, BubbleTrouble_77, Cintron_78, Clarenza_77, Connomayer_78, Doomphist_74, Empress_69, Eris_77, Eurydice_79, Florean_78, Funston_77, Holli_77, Jaykayelowell_75, JetBlade_79, JoongJeon_77, KFPoly_77, Katalie136_75, Kingmustik0402_78, Koreni_77, Kratak_77, LHTSCC_80, LittleB_78, Maxo_80, Mazhar510_78, Nyxis_77, Ohfah_79, Palestino_77, Perplexer_75, Phanphagia_66, Poenanya_74, Polymorphads_79, Pumbaa_78, RedBird_72, RockieBear_75, Rosa24_74, Sabertooth_78, Skipitt_77, Sparxx_79, Stasia_75, Stink_78, Sultana_78, Thanksgivukkah_77, TinaFeyge_76, Tinybot_77, TroyPia_79, TygerBlood_78, Wile_74, Wizard007_75, YoSam321_78,

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

- 40AC_83, Abidatro_41, AlexMinion_45, AmiCi24_42, Andrew_44, Arissanae_79, Artemis2UCLA_89, Atlantica_43, Azaz_44, BABullseye_81, BabyBack_82, BlessJoy_90, Blue7_91, BogosyJay_83, Camperdownii_75, Charm_79, Chartreuse_87, Chickaboom_42, Cindaradix_73, CloudWang3_90, Cookiedough_88,

Corndog_6, Cygnet_43, DanHam62_43, Darrell_82, DarthPhader_79, Dorothea_88, Drake94_75, Eesa_40, Elephantoon_84, FatCactus_77, Fingolfin_43, Firecracker_5, Float294_61, GaugeLDP_81, GigiOuiOui_66, Gladiator_86, Goose_79, Gruunaga_89, HamCheese_43, Hammer_90, Helmet_92, Hexamo_89, Hoot_83, Isiphiwo_84, JangDynasty_5, JewelBug_80, Jinkies_3, Jordennis_86, Juno112_42, Kazan_89, Keziacharles14_81, KittenMittens_74, Koko_91, Kristoff_76, Laphuphu24k_42, Leona_42, LoneWolf_84, Maminaiaina_83, Mundrea_77, Noelle_76, OKCentral2016_77, Oppalora_42, Pharaoh_78, PhluffyCoco_43, Polyphemus_81, Priya_82, Rahalelulah_83, RedFox_43, Refuge_81, Rifter_90, Roksolana_90, SheaKeira_79, SmellyB_88, Smooch_6, Spouty_82, Steamy_76, StuartMinion_35, Temprado_91, Toaka_82, ToneTone_87, Tucker_90, Upyo_53, Vanisoa_79, WalterMcMickey_77, Wiks_89, WileyE_46, Winget_5, Yecey3_85, Yokurt_89, YungJamal_6, Zaka_90, Zhuangyuan_48, Zimmer_80,

Summary by start number:

Start 7:

- Found in 1 of 239 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 224
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jinkies_3 (FL),

Start 8:

- Found in 27 of 239 (11.3%) of genes in pham
- Manual Annotations of this start: 13 of 224
- Called 70.4% of time when present
- Phage (with cluster) where this start called: AmiCi24_42 (AS3), Andrew_44 (AS3), Atlantica_43 (AS3), Azaz_44 (AS3), Cygnet_43 (AS2), DanHam62_43 (AS3), Doomphist_74 (F1), Empress_69 (F1), Fingolfin_43 (AS3), GigiOuiOui_66 (F1), HamCheese_43 (AS3), Juno112_42 (AS3), Laphuphu24k_42 (AS3), Leona_42 (AS3), Oppalora_42 (AS3), Poenanya_74 (F1), RedBird_72 (F1), StuartMinion_35 (AS3), Zhuangyuan_48 (AS2),

Start 11:

- Found in 202 of 239 (84.5%) of genes in pham
- Manual Annotations of this start: 46 of 224
- Called 22.8% of time when present
- Phage (with cluster) where this start called: Achebe_74 (A4), Albee_78 (A4), Artemis2UCLA_89 (A6), BABullseye_81 (A6), Bruiser_77 (A4), BubbleTrouble_77 (A4), Camperdownii_75 (A4), Charm_79 (A9), Clarenza_77 (A4), CloudWang3_90 (A6), Dorothea_88 (A6), Drake94_75 (A10), Elephantoon_84 (A9), Eris_77 (A4), Florean_78 (A4), Funston_77 (A4), Gladiator_86 (A6), Goose_79 (A10), Gruunaga_89 (A6), Hexamo_89 (A6), Hoot_83 (A6), Isiphiwo_84 (A6), Jaykayelowell_75 (A4), JewelBug_80 (A6), JoongJeon_77 (A4), Jordennis_86 (A6), KFPoly_77 (A4), KittenMittens_74 (A10), Kratak_77 (A4), Kristoff_76 (A10), LittleB_78 (A4), Noelle_76 (A4), Palestino_77 (A4), Pharaoh_78 (A12), Polyphemus_81 (A6), Priya_82 (A9), Rahalelulah_83 (A9), Rifter_90 (A6), Roksolana_90 (A6), Spouty_82 (A9), Steamy_76 (A12), Thanksgiving_77 (A4), TinaFeyge_76 (A4), Wiks_89 (A6), Zaka_90 (A6), Zimmer_80 (A12),

Start 16:

- Found in 60 of 239 (25.1%) of genes in pham
- Manual Annotations of this start: 5 of 224

- Called 8.3% of time when present
- Phage (with cluster) where this start called: Blue7_91 (A6), Cookiedough_88 (A6), Kazan_89 (A6), OKCentral2016_77 (A10), SmellyB_88 (A6),

Start 18:

- Found in 7 of 239 (2.9%) of genes in pham
- Manual Annotations of this start: 1 of 224
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Phanphagia_66 (F1),

Start 28:

- Found in 1 of 239 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 224
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Float294_61 (CR3),

Start 29:

- Found in 63 of 239 (26.4%) of genes in pham
- Manual Annotations of this start: 13 of 224
- Called 22.2% of time when present
- Phage (with cluster) where this start called: Arissanae_79 (A9), BogosyJay_83 (A9), Darrell_82 (A9), DarthPhader_79 (A12), FatCactus_77 (A20), Keziacharles14_81 (A9), LoneWolf_84 (A9), Maminina_83 (A9), Refuge_81 (A12), SheaKeira_79 (A9), Toaka_82 (A9), Vanisoa_79 (A9), WalterMcMickey_77 (A10), Yecey3_85 (A9),

Start 31:

- Found in 168 of 239 (70.3%) of genes in pham
- Manual Annotations of this start: 6 of 224
- Called 3.6% of time when present
- Phage (with cluster) where this start called: Chartreuse_87 (A6), Helmet_92 (A6), Koko_91 (A6), Mundrea_77 (A4), Temprado_91 (A6), Yokurt_89 (A6),

Start 32:

- Found in 11 of 239 (4.6%) of genes in pham
- Manual Annotations of this start: 4 of 224
- Called 36.4% of time when present
- Phage (with cluster) where this start called: BlessJoy_90 (A6), Hammer_90 (A6), ToneTone_87 (A6), Tucker_90 (A6),

Start 34:

- Found in 1 of 239 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 224
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Upyo_53 (CD),

Start 40:

- Found in 137 of 239 (57.3%) of genes in pham
- Manual Annotations of this start: 28 of 224
- Called 21.9% of time when present
- Phage (with cluster) where this start called: Baby16_78 (A4), BangNhom_75 (A4), Bartimeaus_78 (A4), Blackmoor_77 (A4), Bombshell_78 (A4), Cintron_78 (A4), Connomayer_78 (A4), Eurydice_79 (A4), Holli_77 (A4), JetBlade_79 (A4), Kingmustik0402_78 (A4), Koreni_77 (A4), LHTSCC_80 (A4), Maxo_80 (A4),

Mazhar510_78 (A4), Nyxis_77 (A4), Ohfah_79 (A4), Polymorphads_79 (A4), Pumbaa_78 (A4), RockieBear_75 (A4), Rosa24_74 (A4), Sabertooth_78 (A4), Skipitt_77 (A4), Sparxx_79 (A4), Stasia_75 (A4), Sultana_78 (A4), Tinybot_77 (A4), TroyPia_79 (A4), TygerBlood_78 (A4), YoSam321_78 (A4),

Start 41:

- Found in 145 of 239 (60.7%) of genes in pham
- Manual Annotations of this start: 86 of 224
- Called 61.4% of time when present
- Phage (with cluster) where this start called: AbbysRanger_75 (A4), Abdiel_77 (A4), Alberto7_79 (A4), Annyong_77 (A4), Arturo_75 (A4), AvatarAhPeg_78 (A4), Avle17_78 (A4), Backyardigan_73 (A4), Badger_74 (A4), BellusTerra_79 (A4), Broseidon_78 (A4), Bumblebee11_74 (A4), Burger_76 (A4), Caelakin_76 (A4), CentreCat_78 (A4), Cerulean_80 (A4), ChampagnePapi_81 (A4), Chaph_78 (A4), Cici_75 (A4), Citius_78 (A4), Cocoaberry_78 (A4), Commander_76 (A4), Datway_75 (A4), Deano_75 (A4), Dhanush_78 (A4), DirtyDunning_77 (A4), Druantia_77 (A4), Eagle_77 (A4), Eapen_78 (A4), Eros_78 (A4), Flux_79 (A4), Gadost_78 (A4), HamSlice_74 (A4), Happiness_77 (A4), Houdini22_77 (A4), Huxley_67 (A4), ICleared_77 (A4), Iceman_76 (A4), Iracema64_78 (A4), Kampy_77 (A4), KekoraPapaka_75 (A4), Koan_75 (A4), Kremtemulon_75 (A4), Kyee_78 (A4), LappelDuVide_78 (A4), Lemur_78 (A4), LittleGuy_78 (A4), LochMonster_79 (A4), Lorenzo_78 (A4), Lunsford_78 (A4), Maverick_77 (A4), Medusa_77 (A4), MeeZee_77 (A4), Melvin_80 (A4), Millski_77 (A4), Miramae_78 (A4), Morpher26_75 (A4), Morrow_80 (A4), Nebs_79 (A4), Nemo27_77 (A4), NorthStar_75 (A4), NotAPhaseMom_77 (A4), OKaNui_77 (A4), Obama12_79 (A4), Peaches_76 (A4), PeterPeter_78 (A4), PetiteSangsue_75 (A4), Phacado_78 (A4), Phelipe_79 (A4), Phighter1804_78 (A4), Phontbonne_78 (A4), Pipcraft_74 (A4), Relief_77 (A4), Romney_77 (A4), Roosevelt_76 (A4), Ruin_78 (A4), Scamp_78 (A4), SenorClean_79 (A4), Shaka_76 (A4), SheldonCooper_78 (A4), Shygu2_76 (A4), Spino_77 (A4), SteMason_74 (A4), Taquarus_77 (A4), TiroTheta9_77 (A4), Ulysses_77 (A4), Wander_78 (A4), Wilbur_78 (A4), Xena_74 (A4),

Start 43:

- Found in 14 of 239 (5.9%) of genes in pham
- Manual Annotations of this start: 4 of 224
- Called 28.6% of time when present
- Phage (with cluster) where this start called: Katalie136_75 (A4), Perplexer_75 (A4), Wile_74 (A4), Wizard007_75 (A4),

Start 47:

- Found in 3 of 239 (1.3%) of genes in pham
- Manual Annotations of this start: 2 of 224
- Called 66.7% of time when present
- Phage (with cluster) where this start called: BabyBack_82 (A2), GaugeLDP_81 (A2),

Start 49:

- Found in 1 of 239 (0.4%) of genes in pham
- Manual Annotations of this start: 1 of 224
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abidatro_41 (AS1),

Start 50:

- Found in 2 of 239 (0.8%) of genes in pham

- Manual Annotations of this start: 2 of 224
- Called 100.0% of time when present
- Phage (with cluster) where this start called: PhluffyCoco_43 (AS3), RedFox_43 (AS3),

Start 51:

- Found in 3 of 239 (1.3%) of genes in pham
- Manual Annotations of this start: 2 of 224
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chickaboom_42 (AS1), Eesa_40 (AS1), WileyE_46 (AS1),

Start 55:

- Found in 2 of 239 (0.8%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: AlexMinion_45 (AS3),

Start 58:

- Found in 3 of 239 (1.3%) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: 40AC_83 (A17),

Start 62:

- Found in 4 of 239 (1.7%) of genes in pham
- Manual Annotations of this start: 2 of 224
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Cindaradix_73 (A4), Stink_78 (A4),

Start 64:

- Found in 6 of 239 (2.5%) of genes in pham
- Manual Annotations of this start: 6 of 224
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Corndog_6 (O), Firecracker_5 (O), JangDynasty_5 (O), Smooch_6 (O), Winget_5 (O), YungJamal_6 (O),

Summary by clusters:

There are 16 clusters represented in this pham: AS3, F1, A17, A10, A12, CR3, AS1, O, CD, A20, A2, A4, A6, A9, FL, AS2,

Info for manual annotations of cluster A10:

- Start number 11 was manually annotated 4 times for cluster A10.
- Start number 16 was manually annotated 1 time for cluster A10.
- Start number 29 was manually annotated 1 time for cluster A10.

Info for manual annotations of cluster A12:

- Start number 11 was manually annotated 3 times for cluster A12.
- Start number 29 was manually annotated 2 times for cluster A12.

Info for manual annotations of cluster A2:

- Start number 47 was manually annotated 2 times for cluster A2.

Info for manual annotations of cluster A4:

- Start number 11 was manually annotated 18 times for cluster A4.
- Start number 31 was manually annotated 1 time for cluster A4.
- Start number 40 was manually annotated 28 times for cluster A4.
- Start number 41 was manually annotated 86 times for cluster A4.
- Start number 43 was manually annotated 4 times for cluster A4.
- Start number 62 was manually annotated 2 times for cluster A4.

Info for manual annotations of cluster A6:

- Start number 11 was manually annotated 16 times for cluster A6.
- Start number 16 was manually annotated 4 times for cluster A6.
- Start number 31 was manually annotated 5 times for cluster A6.
- Start number 32 was manually annotated 4 times for cluster A6.

Info for manual annotations of cluster A9:

- Start number 11 was manually annotated 5 times for cluster A9.
- Start number 29 was manually annotated 10 times for cluster A9.

Info for manual annotations of cluster AS1:

- Start number 49 was manually annotated 1 time for cluster AS1.
- Start number 51 was manually annotated 2 times for cluster AS1.

Info for manual annotations of cluster AS2:

- Start number 8 was manually annotated 1 time for cluster AS2.

Info for manual annotations of cluster AS3:

- Start number 8 was manually annotated 7 times for cluster AS3.
- Start number 50 was manually annotated 2 times for cluster AS3.

Info for manual annotations of cluster CD:

- Start number 34 was manually annotated 1 time for cluster CD.

Info for manual annotations of cluster CR3:

- Start number 28 was manually annotated 1 time for cluster CR3.

Info for manual annotations of cluster F1:

- Start number 8 was manually annotated 5 times for cluster F1.
- Start number 18 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster FL:

- Start number 7 was manually annotated 1 time for cluster FL.

Info for manual annotations of cluster O:

- Start number 64 was manually annotated 6 times for cluster O.

Gene Information:

Gene: 40AC_83 Start: 49035, Stop: 48499, Start Num: 58

Candidate Starts for 40AC_83:

(Start: 11 @49257 has 46 MA's), (Start: 16 @49233 has 5 MA's), (Start: 29 @49176 has 13 MA's),
(Start: 47 @49083 has 2 MA's), (58, 49035), (63, 49005), (66, 48996), (106, 48810), (112, 48786),
(122, 48663), (123, 48660), (129, 48564), (130, 48561), (133, 48522),

Gene: AbbysRanger_75 Start: 46560, Stop: 45976, Start Num: 41

Candidate Starts for AbbysRanger_75:

(Start: 11 @46710 has 46 MA's), (27, 46632), (Start: 31 @46611 has 6 MA's), (Start: 40 @46563 has
28 MA's), (Start: 41 @46560 has 86 MA's), (Start: 43 @46548 has 4 MA's), (63, 46455), (71, 46383),
(76, 46365), (103, 46299), (117, 46194), (122, 46134), (123, 46131), (128, 46044), (131, 46023),

Gene: Abdiel_77 Start: 46760, Stop: 46176, Start Num: 41

Candidate Starts for Abdiel_77:

(Start: 11 @46910 has 46 MA's), (27, 46832), (Start: 31 @46811 has 6 MA's), (Start: 40 @46763 has
28 MA's), (Start: 41 @46760 has 86 MA's), (63, 46655), (71, 46583), (76, 46565), (103, 46499), (122,
46334), (123, 46331), (128, 46244), (131, 46223),

Gene: Abidatro_41 Start: 27763, Stop: 28476, Start Num: 49

Candidate Starts for Abidatro_41:

(Start: 8 @27487 has 13 MA's), (21, 27568), (27, 27604), (39, 27670), (Start: 49 @27763 has 1 MA's),
(52, 27781), (68, 27901), (70, 27916), (73, 27934), (82, 28000), (85, 28015), (93, 28087), (100, 28162),
(116, 28264), (122, 28339), (123, 28342), (134, 28459),

Gene: Achebe_74 Start: 46689, Stop: 45955, Start Num: 11

Candidate Starts for Achebe_74:

(Start: 11 @46689 has 46 MA's), (27, 46611), (Start: 31 @46590 has 6 MA's), (Start: 40 @46542 has
28 MA's), (Start: 41 @46539 has 86 MA's), (Start: 43 @46527 has 4 MA's), (63, 46434), (71, 46362),
(76, 46344), (103, 46278), (117, 46173), (122, 46113), (123, 46110), (128, 46023), (131, 46002), (134,
45966),

Gene: Albee_78 Start: 46898, Stop: 46164, Start Num: 11

Candidate Starts for Albee_78:

(Start: 11 @46898 has 46 MA's), (27, 46820), (Start: 31 @46799 has 6 MA's), (Start: 40 @46751 has
28 MA's), (Start: 41 @46748 has 86 MA's), (63, 46643), (71, 46571), (76, 46553), (103, 46487), (117,
46382), (122, 46322), (123, 46319), (128, 46232), (131, 46211),

Gene: Alberto7_79 Start: 47085, Stop: 46501, Start Num: 41

Candidate Starts for Alberto7_79:

(Start: 11 @47235 has 46 MA's), (27, 47157), (Start: 31 @47136 has 6 MA's), (Start: 40 @47088 has
28 MA's), (Start: 41 @47085 has 86 MA's), (63, 46980), (71, 46908), (76, 46890), (103, 46824), (117,
46719), (122, 46659), (123, 46656), (128, 46569), (131, 46548),

Gene: AlexMinion_45 Start: 27531, Stop: 28121, Start Num: 55

Candidate Starts for AlexMinion_45:

(Start: 8 @27336 has 13 MA's), (13, 27375), (19, 27402), (27, 27453), (30, 27468), (33, 27489), (35,
27501), (39, 27519), (55, 27531), (69, 27627), (95, 27726), (98, 27777), (111, 27846), (116, 27897),
(121, 27945), (122, 27972), (123, 27975), (132, 28059), (134, 28092), (137, 28104),

Gene: AmiCi24_42 Start: 27168, Stop: 27965, Start Num: 8

Candidate Starts for AmiCi24_42:

(Start: 8 @27168 has 13 MA's), (19, 27234), (21, 27249), (27, 27285), (35, 27333), (38, 27345), (39,
27351), (94, 27567), (95, 27573), (116, 27741), (122, 27816), (123, 27819), (133, 27927), (134,
27936), (137, 27948),

Gene: Andrew_44 Start: 27053, Stop: 27850, Start Num: 8

Candidate Starts for Andrew_44:

(Start: 8 @27053 has 13 MA's), (19, 27119), (21, 27134), (27, 27170), (35, 27218), (39, 27236), (94, 27452), (95, 27458), (108, 27563), (116, 27626), (122, 27701), (123, 27704), (132, 27788), (134, 27821),

Gene: Annyong_77 Start: 46793, Stop: 46209, Start Num: 41

Candidate Starts for Annyong_77:

(Start: 11 @46943 has 46 MA's), (27, 46865), (Start: 31 @46844 has 6 MA's), (Start: 40 @46796 has 28 MA's), (Start: 41 @46793 has 86 MA's), (63, 46688), (71, 46616), (76, 46598), (103, 46532), (117, 46427), (122, 46367), (123, 46364), (128, 46277), (131, 46256),

Gene: Arissanae_79 Start: 46740, Stop: 46174, Start Num: 29

Candidate Starts for Arissanae_79:

(Start: 11 @46821 has 46 MA's), (Start: 16 @46797 has 5 MA's), (27, 46743), (Start: 29 @46740 has 13 MA's), (106, 46482), (111, 46461), (122, 46335), (123, 46332), (128, 46245),

Gene: Artemis2UCLA_89 Start: 47205, Stop: 46558, Start Num: 11

Candidate Starts for Artemis2UCLA_89:

(Start: 11 @47205 has 46 MA's), (Start: 16 @47181 has 5 MA's), (27, 47127), (Start: 29 @47124 has 13 MA's), (Start: 32 @47094 has 4 MA's), (114, 46800), (122, 46719), (123, 46716), (129, 46623), (130, 46620),

Gene: Arturo_75 Start: 46876, Stop: 46292, Start Num: 41

Candidate Starts for Arturo_75:

(Start: 11 @47026 has 46 MA's), (27, 46948), (Start: 31 @46927 has 6 MA's), (Start: 40 @46879 has 28 MA's), (Start: 41 @46876 has 86 MA's), (63, 46771), (71, 46699), (76, 46681), (103, 46615), (117, 46510), (122, 46450), (123, 46447), (128, 46360), (131, 46339),

Gene: Atlantica_43 Start: 27170, Stop: 27967, Start Num: 8

Candidate Starts for Atlantica_43:

(Start: 8 @27170 has 13 MA's), (19, 27236), (21, 27251), (27, 27287), (35, 27335), (38, 27347), (39, 27353), (94, 27569), (95, 27575), (116, 27743), (122, 27818), (123, 27821), (133, 27929), (134, 27938), (137, 27950),

Gene: AvatarAhPeg_78 Start: 46909, Stop: 46328, Start Num: 41

Candidate Starts for AvatarAhPeg_78:

(Start: 11 @47059 has 46 MA's), (27, 46981), (Start: 31 @46960 has 6 MA's), (37, 46927), (Start: 41 @46909 has 86 MA's), (57, 46840), (60, 46834), (Start: 62 @46822 has 2 MA's), (103, 46651), (122, 46486), (123, 46483), (128, 46396), (131, 46375), (134, 46339),

Gene: Avle17_78 Start: 46742, Stop: 46158, Start Num: 41

Candidate Starts for Avle17_78:

(Start: 11 @46892 has 46 MA's), (27, 46814), (Start: 31 @46793 has 6 MA's), (Start: 40 @46745 has 28 MA's), (Start: 41 @46742 has 86 MA's), (63, 46637), (71, 46565), (76, 46547), (103, 46481), (117, 46376), (122, 46316), (123, 46313), (128, 46226), (131, 46205),

Gene: Azaz_44 Start: 27236, Stop: 28045, Start Num: 8

Candidate Starts for Azaz_44:

(Start: 8 @27236 has 13 MA's), (19, 27302), (21, 27317), (27, 27353), (35, 27401), (38, 27413), (39, 27419), (95, 27653), (96, 27656), (108, 27758), (116, 27821), (122, 27896), (123, 27899), (134, 28016),

Gene: BABullseye_81 Start: 45537, Stop: 44887, Start Num: 11

Candidate Starts for BABullseye_81:

(Start: 11 @45537 has 46 MA's), (Start: 16 @45513 has 5 MA's), (27, 45459), (Start: 29 @45456 has 13 MA's), (Start: 31 @45438 has 6 MA's), (106, 45198), (112, 45174), (115, 45129), (122, 45051), (123, 45048), (124, 45027), (129, 44952), (130, 44949),

Gene: Baby16_78 Start: 46762, Stop: 46175, Start Num: 40

Candidate Starts for Baby16_78:

(Start: 11 @46909 has 46 MA's), (27, 46831), (Start: 31 @46810 has 6 MA's), (Start: 40 @46762 has 28 MA's), (Start: 41 @46759 has 86 MA's), (63, 46654), (71, 46582), (76, 46564), (103, 46498), (122, 46333), (123, 46330), (128, 46243), (131, 46222),

Gene: BabyBack_82 Start: 48998, Stop: 48291, Start Num: 47

Candidate Starts for BabyBack_82:

(Start: 11 @49172 has 46 MA's), (Start: 16 @49148 has 5 MA's), (Start: 29 @49091 has 13 MA's), (Start: 47 @48998 has 2 MA's), (58, 48950), (77, 48821), (87, 48764), (104, 48611), (115, 48533), (122, 48455), (123, 48452), (129, 48356), (130, 48353),

Gene: Backyardigan_73 Start: 46576, Stop: 45992, Start Num: 41

Candidate Starts for Backyardigan_73:

(Start: 11 @46726 has 46 MA's), (27, 46648), (Start: 31 @46627 has 6 MA's), (Start: 40 @46579 has 28 MA's), (Start: 41 @46576 has 86 MA's), (Start: 43 @46564 has 4 MA's), (63, 46471), (71, 46399), (76, 46381), (103, 46315), (117, 46210), (122, 46150), (123, 46147), (128, 46060), (131, 46039),

Gene: Badger_74 Start: 46542, Stop: 45958, Start Num: 41

Candidate Starts for Badger_74:

(Start: 11 @46692 has 46 MA's), (27, 46614), (Start: 31 @46593 has 6 MA's), (Start: 40 @46545 has 28 MA's), (Start: 41 @46542 has 86 MA's), (Start: 43 @46530 has 4 MA's), (63, 46437), (71, 46365), (76, 46347), (103, 46281), (117, 46176), (122, 46116), (123, 46113), (128, 46026), (131, 46005),

Gene: BangNhom_75 Start: 47188, Stop: 46601, Start Num: 40

Candidate Starts for BangNhom_75:

(Start: 11 @47335 has 46 MA's), (27, 47257), (Start: 31 @47236 has 6 MA's), (Start: 40 @47188 has 28 MA's), (Start: 41 @47185 has 86 MA's), (63, 47080), (71, 47008), (76, 46990), (103, 46924), (122, 46759), (123, 46756), (128, 46669), (131, 46648),

Gene: Bartimeaus_78 Start: 46753, Stop: 46166, Start Num: 40

Candidate Starts for Bartimeaus_78:

(Start: 11 @46900 has 46 MA's), (27, 46822), (Start: 31 @46801 has 6 MA's), (Start: 40 @46753 has 28 MA's), (Start: 41 @46750 has 86 MA's), (63, 46645), (71, 46573), (76, 46555), (103, 46489), (122, 46324), (123, 46321), (128, 46234), (131, 46213),

Gene: BellusTerra_79 Start: 46789, Stop: 46205, Start Num: 41

Candidate Starts for BellusTerra_79:

(Start: 11 @46939 has 46 MA's), (27, 46861), (Start: 31 @46840 has 6 MA's), (Start: 40 @46792 has 28 MA's), (Start: 41 @46789 has 86 MA's), (63, 46684), (71, 46612), (76, 46594), (103, 46528), (122, 46363), (123, 46360), (128, 46273), (131, 46252),

Gene: Blackmoor_77 Start: 46753, Stop: 46166, Start Num: 40

Candidate Starts for Blackmoor_77:

(Start: 11 @46900 has 46 MA's), (27, 46822), (Start: 31 @46801 has 6 MA's), (Start: 40 @46753 has 28 MA's), (Start: 41 @46750 has 86 MA's), (63, 46645), (71, 46573), (76, 46555), (103, 46489), (122,

46324), (123, 46321), (128, 46234), (131, 46213),

Gene: BlessJoy_90 Start: 47615, Stop: 47079, Start Num: 32

Candidate Starts for BlessJoy_90:

(Start: 11 @47726 has 46 MA's), (Start: 16 @47702 has 5 MA's), (27, 47648), (Start: 29 @47645 has 13 MA's), (Start: 32 @47615 has 4 MA's), (114, 47321), (122, 47240), (123, 47237), (129, 47144), (130, 47141),

Gene: Blue7_91 Start: 47412, Stop: 46786, Start Num: 16

Candidate Starts for Blue7_91:

(Start: 11 @47436 has 46 MA's), (Start: 16 @47412 has 5 MA's), (27, 47358), (Start: 29 @47355 has 13 MA's), (Start: 31 @47337 has 6 MA's), (114, 47031), (122, 46950), (123, 46947), (124, 46926), (129, 46851), (130, 46848),

Gene: BogosyJay_83 Start: 46896, Stop: 46318, Start Num: 29

Candidate Starts for BogosyJay_83:

(Start: 11 @46977 has 46 MA's), (15, 46956), (Start: 16 @46953 has 5 MA's), (Start: 29 @46896 has 13 MA's), (37, 46845), (106, 46638), (111, 46617), (122, 46491), (123, 46488), (128, 46401), (131, 46380), (136, 46335),

Gene: Bombshell_78 Start: 46748, Stop: 46161, Start Num: 40

Candidate Starts for Bombshell_78:

(Start: 11 @46895 has 46 MA's), (27, 46817), (Start: 31 @46796 has 6 MA's), (Start: 40 @46748 has 28 MA's), (Start: 41 @46745 has 86 MA's), (63, 46640), (71, 46568), (72, 46562), (76, 46550), (103, 46484), (117, 46379), (122, 46319), (123, 46316), (128, 46229), (131, 46208),

Gene: Broseidon_78 Start: 46751, Stop: 46167, Start Num: 41

Candidate Starts for Broseidon_78:

(Start: 11 @46901 has 46 MA's), (27, 46823), (Start: 31 @46802 has 6 MA's), (Start: 40 @46754 has 28 MA's), (Start: 41 @46751 has 86 MA's), (63, 46646), (71, 46574), (76, 46556), (103, 46490), (117, 46385), (122, 46325), (123, 46322), (128, 46235), (131, 46214),

Gene: Bruiser_77 Start: 46898, Stop: 46164, Start Num: 11

Candidate Starts for Bruiser_77:

(Start: 11 @46898 has 46 MA's), (27, 46820), (Start: 31 @46799 has 6 MA's), (Start: 40 @46751 has 28 MA's), (Start: 41 @46748 has 86 MA's), (63, 46643), (71, 46571), (76, 46553), (103, 46487), (122, 46322), (123, 46319), (128, 46232), (131, 46211),

Gene: BubbleTrouble_77 Start: 46925, Stop: 46191, Start Num: 11

Candidate Starts for BubbleTrouble_77:

(Start: 11 @46925 has 46 MA's), (27, 46847), (Start: 31 @46826 has 6 MA's), (Start: 40 @46778 has 28 MA's), (Start: 41 @46775 has 86 MA's), (63, 46670), (71, 46598), (76, 46580), (103, 46514), (117, 46409), (122, 46349), (123, 46346), (128, 46259), (131, 46238),

Gene: Bumblebee11_74 Start: 46542, Stop: 45958, Start Num: 41

Candidate Starts for Bumblebee11_74:

(Start: 11 @46692 has 46 MA's), (27, 46614), (Start: 31 @46593 has 6 MA's), (Start: 40 @46545 has 28 MA's), (Start: 41 @46542 has 86 MA's), (Start: 43 @46530 has 4 MA's), (63, 46437), (71, 46365), (76, 46347), (103, 46281), (117, 46176), (122, 46116), (123, 46113), (128, 46026), (131, 46005), (132, 46002),

Gene: Burger_76 Start: 46748, Stop: 46164, Start Num: 41

Candidate Starts for Burger_76:

(Start: 11 @46898 has 46 MA's), (27, 46820), (Start: 31 @46799 has 6 MA's), (Start: 40 @46751 has 28 MA's), (Start: 41 @46748 has 86 MA's), (63, 46643), (71, 46571), (76, 46553), (103, 46487), (117, 46382), (122, 46322), (123, 46319), (128, 46232), (131, 46211),

Gene: Caelakin_76 Start: 46748, Stop: 46164, Start Num: 41

Candidate Starts for Caelakin_76:

(Start: 11 @46898 has 46 MA's), (27, 46820), (Start: 31 @46799 has 6 MA's), (Start: 40 @46751 has 28 MA's), (Start: 41 @46748 has 86 MA's), (63, 46643), (71, 46571), (76, 46553), (103, 46487), (122, 46322), (123, 46319), (128, 46232), (131, 46211),

Gene: Camperdownii_75 Start: 46323, Stop: 45583, Start Num: 11

Candidate Starts for Camperdownii_75:

(Start: 11 @46323 has 46 MA's), (Start: 16 @46299 has 5 MA's), (Start: 29 @46242 has 13 MA's), (108, 45870), (115, 45807), (122, 45729), (123, 45726), (129, 45645), (131, 45630),

Gene: CentreCat_78 Start: 46788, Stop: 46204, Start Num: 41

Candidate Starts for CentreCat_78:

(Start: 11 @46938 has 46 MA's), (27, 46860), (Start: 31 @46839 has 6 MA's), (Start: 40 @46791 has 28 MA's), (Start: 41 @46788 has 86 MA's), (63, 46683), (71, 46611), (76, 46593), (103, 46527), (122, 46362), (123, 46359), (128, 46272), (131, 46251),

Gene: Cerulean_80 Start: 47186, Stop: 46602, Start Num: 41

Candidate Starts for Cerulean_80:

(Start: 11 @47336 has 46 MA's), (27, 47258), (Start: 31 @47237 has 6 MA's), (Start: 40 @47189 has 28 MA's), (Start: 41 @47186 has 86 MA's), (63, 47081), (71, 47009), (76, 46991), (103, 46925), (122, 46760), (123, 46757), (128, 46670), (131, 46649),

Gene: ChampagnePapi_81 Start: 47188, Stop: 46604, Start Num: 41

Candidate Starts for ChampagnePapi_81:

(Start: 11 @47338 has 46 MA's), (27, 47260), (Start: 31 @47239 has 6 MA's), (Start: 40 @47191 has 28 MA's), (Start: 41 @47188 has 86 MA's), (63, 47083), (71, 47011), (76, 46993), (103, 46927), (122, 46762), (123, 46759), (128, 46672), (131, 46651),

Gene: Chaph_78 Start: 46759, Stop: 46175, Start Num: 41

Candidate Starts for Chaph_78:

(Start: 11 @46909 has 46 MA's), (27, 46831), (Start: 31 @46810 has 6 MA's), (Start: 40 @46762 has 28 MA's), (Start: 41 @46759 has 86 MA's), (63, 46654), (71, 46582), (72, 46576), (76, 46564), (103, 46498), (122, 46333), (123, 46330), (128, 46243), (131, 46222),

Gene: Charm_79 Start: 46368, Stop: 45709, Start Num: 11

Candidate Starts for Charm_79:

(Start: 11 @46368 has 46 MA's), (Start: 16 @46344 has 5 MA's), (27, 46290), (Start: 29 @46287 has 13 MA's), (106, 46029), (111, 46008), (120, 45921), (122, 45882), (123, 45879), (127, 45813), (128, 45792), (131, 45771), (136, 45726),

Gene: Chartreuse_87 Start: 46443, Stop: 45892, Start Num: 31

Candidate Starts for Chartreuse_87:

(Start: 11 @46542 has 46 MA's), (Start: 16 @46518 has 5 MA's), (27, 46464), (Start: 29 @46461 has 13 MA's), (Start: 31 @46443 has 6 MA's), (106, 46203), (112, 46179), (115, 46134), (122, 46056), (123, 46053), (124, 46032), (129, 45957), (130, 45954),

Gene: Chickaboom_42 Start: 27783, Stop: 28385, Start Num: 51

Candidate Starts for Chickaboom_42:

(Start: 8 @27504 has 13 MA's), (21, 27585), (27, 27621), (35, 27669), (Start: 51 @27783 has 2 MA's), (94, 27996), (95, 28002), (96, 28005), (100, 28068), (116, 28170), (122, 28245), (123, 28248), (134, 28365),

Gene: Cici_75 Start: 46555, Stop: 45971, Start Num: 41

Candidate Starts for Cici_75:

(Start: 11 @46705 has 46 MA's), (27, 46627), (Start: 31 @46606 has 6 MA's), (Start: 40 @46558 has 28 MA's), (Start: 41 @46555 has 86 MA's), (Start: 43 @46543 has 4 MA's), (63, 46450), (71, 46378), (76, 46360), (103, 46294), (117, 46189), (122, 46129), (123, 46126), (128, 46039), (131, 46018), (134, 45982),

Gene: Cindaradix_73 Start: 46788, Stop: 46300, Start Num: 62

Candidate Starts for Cindaradix_73:

(Start: 11 @47025 has 46 MA's), (27, 46947), (Start: 31 @46926 has 6 MA's), (57, 46806), (Start: 62 @46788 has 2 MA's), (103, 46623), (107, 46602), (122, 46458), (123, 46455), (128, 46368), (131, 46347),

Gene: Cintron_78 Start: 46867, Stop: 46280, Start Num: 40

Candidate Starts for Cintron_78:

(Start: 11 @47014 has 46 MA's), (27, 46936), (Start: 31 @46915 has 6 MA's), (Start: 40 @46867 has 28 MA's), (Start: 41 @46864 has 86 MA's), (63, 46759), (71, 46687), (76, 46669), (103, 46603), (117, 46498), (122, 46438), (123, 46435), (128, 46348), (131, 46327), (134, 46291),

Gene: Citius_78 Start: 46769, Stop: 46185, Start Num: 41

Candidate Starts for Citius_78:

(Start: 11 @46919 has 46 MA's), (27, 46841), (Start: 31 @46820 has 6 MA's), (Start: 40 @46772 has 28 MA's), (Start: 41 @46769 has 86 MA's), (63, 46664), (71, 46592), (76, 46574), (103, 46508), (122, 46343), (123, 46340), (128, 46253), (131, 46232),

Gene: Clarenza_77 Start: 46895, Stop: 46161, Start Num: 11

Candidate Starts for Clarenza_77:

(Start: 11 @46895 has 46 MA's), (27, 46817), (Start: 31 @46796 has 6 MA's), (Start: 40 @46748 has 28 MA's), (Start: 41 @46745 has 86 MA's), (63, 46640), (71, 46568), (76, 46550), (103, 46484), (117, 46379), (122, 46319), (123, 46316), (128, 46229), (131, 46208),

Gene: CloudWang3_90 Start: 47734, Stop: 47087, Start Num: 11

Candidate Starts for CloudWang3_90:

(Start: 11 @47734 has 46 MA's), (Start: 16 @47710 has 5 MA's), (27, 47656), (Start: 29 @47653 has 13 MA's), (Start: 32 @47623 has 4 MA's), (114, 47329), (122, 47248), (123, 47245), (129, 47152), (130, 47149),

Gene: Cocoaberry_78 Start: 46749, Stop: 46165, Start Num: 41

Candidate Starts for Cocoaberry_78:

(Start: 11 @46899 has 46 MA's), (27, 46821), (Start: 31 @46800 has 6 MA's), (Start: 40 @46752 has 28 MA's), (Start: 41 @46749 has 86 MA's), (63, 46644), (71, 46572), (76, 46554), (103, 46488), (117, 46383), (122, 46323), (123, 46320), (128, 46233), (131, 46212),

Gene: Commander_76 Start: 46746, Stop: 46162, Start Num: 41

Candidate Starts for Commander_76:

(Start: 11 @46896 has 46 MA's), (27, 46818), (Start: 31 @46797 has 6 MA's), (Start: 40 @46749 has 28 MA's), (Start: 41 @46746 has 86 MA's), (63, 46641), (71, 46569), (76, 46551), (103, 46485), (117, 46380), (122, 46320), (123, 46317), (128, 46230), (131, 46209),

Gene: Connomayer_78 Start: 46751, Stop: 46164, Start Num: 40

Candidate Starts for Connomayer_78:

(Start: 11 @46898 has 46 MA's), (27, 46820), (Start: 31 @46799 has 6 MA's), (Start: 40 @46751 has 28 MA's), (Start: 41 @46748 has 86 MA's), (63, 46643), (71, 46571), (76, 46553), (103, 46487), (117, 46382), (122, 46322), (123, 46319), (128, 46232), (131, 46211),

Gene: Cookiedough_88 Start: 47826, Stop: 47200, Start Num: 16

Candidate Starts for Cookiedough_88:

(Start: 11 @47850 has 46 MA's), (Start: 16 @47826 has 5 MA's), (27, 47772), (Start: 29 @47769 has 13 MA's), (Start: 31 @47751 has 6 MA's), (106, 47511), (112, 47487), (115, 47442), (122, 47364), (123, 47361), (124, 47340), (129, 47265), (130, 47262),

Gene: Corndog_6 Start: 2141, Stop: 1578, Start Num: 64

Candidate Starts for Corndog_6:

(Start: 64 @2141 has 6 MA's), (83, 2024), (86, 2009), (91, 1958), (92, 1955), (107, 1847), (110, 1838), (122, 1709), (123, 1706), (131, 1631), (135, 1595),

Gene: Cygnet_43 Start: 28047, Stop: 28715, Start Num: 8

Candidate Starts for Cygnet_43:

(Start: 8 @28047 has 13 MA's), (19, 28113), (Start: 29 @28167 has 13 MA's), (30, 28179), (35, 28212), (39, 28230), (94, 28431), (95, 28437), (116, 28488), (122, 28563), (123, 28566), (131, 28647), (132, 28650), (134, 28683),

Gene: DanHam62_43 Start: 27169, Stop: 27966, Start Num: 8

Candidate Starts for DanHam62_43:

(Start: 8 @27169 has 13 MA's), (19, 27235), (21, 27250), (27, 27286), (35, 27334), (38, 27346), (39, 27352), (94, 27568), (95, 27574), (116, 27742), (122, 27817), (123, 27820), (133, 27928), (134, 27937), (137, 27949),

Gene: Darrell_82 Start: 46051, Stop: 45485, Start Num: 29

Candidate Starts for Darrell_82:

(Start: 11 @46132 has 46 MA's), (Start: 16 @46108 has 5 MA's), (Start: 29 @46051 has 13 MA's), (74, 45898), (106, 45793), (111, 45772), (122, 45646), (123, 45643), (128, 45556),

Gene: DARTHPhader_79 Start: 47620, Stop: 47048, Start Num: 29

Candidate Starts for DARTHPhader_79:

(Start: 11 @47701 has 46 MA's), (Start: 16 @47677 has 5 MA's), (Start: 29 @47620 has 13 MA's), (74, 47464), (111, 47338), (122, 47212), (123, 47209), (129, 47116), (130, 47113), (133, 47074),

Gene: Datway_75 Start: 46559, Stop: 45975, Start Num: 41

Candidate Starts for Datway_75:

(Start: 11 @46709 has 46 MA's), (27, 46631), (Start: 31 @46610 has 6 MA's), (Start: 40 @46562 has 28 MA's), (Start: 41 @46559 has 86 MA's), (63, 46454), (71, 46382), (76, 46364), (103, 46298), (117, 46193), (122, 46133), (123, 46130), (128, 46043), (131, 46022),

Gene: Deano_75 Start: 46756, Stop: 46172, Start Num: 41

Candidate Starts for Deano_75:

(Start: 11 @46906 has 46 MA's), (27, 46828), (Start: 31 @46807 has 6 MA's), (Start: 40 @46759 has 28 MA's), (Start: 41 @46756 has 86 MA's), (63, 46651), (71, 46579), (76, 46561), (103, 46495), (122, 46330), (123, 46327), (128, 46240), (131, 46219),

Gene: Dhanush_78 Start: 46751, Stop: 46167, Start Num: 41

Candidate Starts for Dhanush_78:

(Start: 11 @46901 has 46 MA's), (27, 46823), (Start: 31 @46802 has 6 MA's), (Start: 40 @46754 has 28 MA's), (Start: 41 @46751 has 86 MA's), (63, 46646), (71, 46574), (72, 46568), (76, 46556), (103, 46490), (122, 46325), (123, 46322), (128, 46235), (131, 46214),

Gene: DirtyDunning_77 Start: 46760, Stop: 46176, Start Num: 41

Candidate Starts for DirtyDunning_77:

(Start: 11 @46910 has 46 MA's), (27, 46832), (Start: 31 @46811 has 6 MA's), (Start: 40 @46763 has 28 MA's), (Start: 41 @46760 has 86 MA's), (63, 46655), (71, 46583), (76, 46565), (103, 46499), (117, 46394), (122, 46334), (123, 46331), (128, 46244), (131, 46223),

Gene: Doomphist_74 Start: 45998, Stop: 46735, Start Num: 8

Candidate Starts for Doomphist_74:

(Start: 8 @45998 has 13 MA's), (Start: 18 @46055 has 1 MA's), (22, 46079), (25, 46097), (27, 46112), (Start: 31 @46133 has 6 MA's), (37, 46166), (Start: 41 @46184 has 86 MA's), (90, 46343), (115, 46505), (122, 46583), (123, 46586), (124, 46607), (125, 46616), (128, 46643), (138, 46724),

Gene: Dorothea_88 Start: 47842, Stop: 47192, Start Num: 11

Candidate Starts for Dorothea_88:

(Start: 11 @47842 has 46 MA's), (Start: 16 @47818 has 5 MA's), (27, 47764), (Start: 29 @47761 has 13 MA's), (Start: 31 @47743 has 6 MA's), (106, 47503), (112, 47479), (115, 47434), (122, 47356), (123, 47353), (124, 47332), (129, 47257), (130, 47254),

Gene: Drake94_75 Start: 45844, Stop: 45209, Start Num: 11

Candidate Starts for Drake94_75:

(Start: 11 @45844 has 46 MA's), (Start: 16 @45820 has 5 MA's), (Start: 29 @45763 has 13 MA's), (71, 45628), (115, 45439), (122, 45361), (123, 45358), (124, 45337), (125, 45325), (129, 45271),

Gene: Druantia_77 Start: 46751, Stop: 46167, Start Num: 41

Candidate Starts for Druantia_77:

(Start: 11 @46901 has 46 MA's), (27, 46823), (Start: 31 @46802 has 6 MA's), (Start: 40 @46754 has 28 MA's), (Start: 41 @46751 has 86 MA's), (63, 46646), (71, 46574), (76, 46556), (103, 46490), (122, 46325), (123, 46322), (128, 46235), (131, 46214),

Gene: Eagle_77 Start: 46810, Stop: 46226, Start Num: 41

Candidate Starts for Eagle_77:

(Start: 11 @46960 has 46 MA's), (27, 46882), (Start: 31 @46861 has 6 MA's), (Start: 40 @46813 has 28 MA's), (Start: 41 @46810 has 86 MA's), (63, 46705), (71, 46633), (76, 46615), (103, 46549), (122, 46384), (123, 46381), (128, 46294), (131, 46273),

Gene: Eapen_78 Start: 46743, Stop: 46159, Start Num: 41

Candidate Starts for Eapen_78:

(Start: 11 @46893 has 46 MA's), (27, 46815), (Start: 31 @46794 has 6 MA's), (Start: 40 @46746 has 28 MA's), (Start: 41 @46743 has 86 MA's), (63, 46638), (71, 46566), (76, 46548), (103, 46482), (117, 46377), (122, 46317), (123, 46314), (128, 46227), (131, 46206),

Gene: Eesa_40 Start: 28668, Stop: 29270, Start Num: 51

Candidate Starts for Eesa_40:

(Start: 8 @28389 has 13 MA's), (21, 28470), (27, 28506), (39, 28572), (Start: 43 @28593 has 4 MA's), (45, 28596), (Start: 51 @28668 has 2 MA's), (65, 28734), (89, 28869), (94, 28881), (95, 28887), (100, 28953), (116, 29055), (122, 29130), (123, 29133), (134, 29250),

Gene: Elephantoon_84 Start: 46848, Stop: 46192, Start Num: 11

Candidate Starts for Elephantoon_84:

(Start: 11 @46848 has 46 MA's), (Start: 16 @46824 has 5 MA's), (27, 46770), (Start: 29 @46767 has 13 MA's), (74, 46614), (106, 46509), (111, 46488), (122, 46362), (123, 46359), (128, 46272), (131, 46251), (136, 46206),

Gene: Empress_69 Start: 44809, Stop: 45546, Start Num: 8

Candidate Starts for Empress_69:

(Start: 8 @44809 has 13 MA's), (Start: 18 @44866 has 1 MA's), (22, 44890), (25, 44908), (27, 44923), (Start: 31 @44944 has 6 MA's), (37, 44977), (Start: 41 @44995 has 86 MA's), (90, 45154), (115, 45316), (122, 45394), (123, 45397), (124, 45418), (125, 45427), (128, 45454), (138, 45535),

Gene: Eris_77 Start: 46910, Stop: 46176, Start Num: 11

Candidate Starts for Eris_77:

(Start: 11 @46910 has 46 MA's), (27, 46832), (Start: 31 @46811 has 6 MA's), (Start: 40 @46763 has 28 MA's), (Start: 41 @46760 has 86 MA's), (63, 46655), (71, 46583), (76, 46565), (103, 46499), (117, 46394), (122, 46334), (123, 46331), (128, 46244), (131, 46223),

Gene: Eros_78 Start: 46750, Stop: 46166, Start Num: 41

Candidate Starts for Eros_78:

(Start: 11 @46900 has 46 MA's), (27, 46822), (Start: 31 @46801 has 6 MA's), (Start: 40 @46753 has 28 MA's), (Start: 41 @46750 has 86 MA's), (63, 46645), (71, 46573), (76, 46555), (103, 46489), (117, 46384), (122, 46324), (123, 46321), (128, 46234), (131, 46213),

Gene: Eurydice_79 Start: 46788, Stop: 46201, Start Num: 40

Candidate Starts for Eurydice_79:

(Start: 11 @46935 has 46 MA's), (27, 46857), (Start: 31 @46836 has 6 MA's), (Start: 40 @46788 has 28 MA's), (Start: 41 @46785 has 86 MA's), (63, 46680), (71, 46608), (76, 46590), (103, 46524), (122, 46359), (123, 46356), (128, 46269), (131, 46248),

Gene: FatCactus_77 Start: 46761, Stop: 46126, Start Num: 29

Candidate Starts for FatCactus_77:

(5, 46983), (10, 46878), (14, 46857), (15, 46845), (17, 46839), (24, 46806), (Start: 29 @46761 has 13 MA's), (42, 46677), (106, 46497), (115, 46428), (118, 46404), (122, 46350), (123, 46347), (128, 46254), (132, 46230),

Gene: Fingolfin_43 Start: 27172, Stop: 27969, Start Num: 8

Candidate Starts for Fingolfin_43:

(Start: 8 @27172 has 13 MA's), (19, 27238), (21, 27253), (27, 27289), (35, 27337), (38, 27349), (39, 27355), (94, 27571), (95, 27577), (116, 27745), (122, 27820), (123, 27823), (133, 27931), (134, 27940),

Gene: Firecracker_5 Start: 1850, Stop: 1287, Start Num: 64

Candidate Starts for Firecracker_5:

(Start: 64 @1850 has 6 MA's), (83, 1733), (86, 1718), (91, 1667), (92, 1664), (107, 1556), (110, 1547), (122, 1418), (123, 1415), (131, 1340), (135, 1304),

Gene: Float294_61 Start: 49716, Stop: 49099, Start Num: 28

Candidate Starts for Float294_61:

(1, 50178), (2, 50121), (3, 50109), (4, 50025), (9, 49830), (10, 49815), (12, 49797), (20, 49761), (Start: 28 @49716 has 1 MA's), (46, 49653), (48, 49638), (54, 49632), (59, 49617), (99, 49413), (105, 49386), (107, 49377), (109, 49371), (119, 49287), (122, 49236), (123, 49233), (131, 49155), (133, 49128),

Gene: Florean_78 Start: 46897, Stop: 46163, Start Num: 11

Candidate Starts for Florean_78:

(Start: 11 @46897 has 46 MA's), (27, 46819), (Start: 31 @46798 has 6 MA's), (Start: 40 @46750 has 28 MA's), (Start: 41 @46747 has 86 MA's), (63, 46642), (71, 46570), (76, 46552), (103, 46486), (122, 46321), (123, 46318), (128, 46231), (131, 46210),

Gene: Flux_79 Start: 46746, Stop: 46162, Start Num: 41

Candidate Starts for Flux_79:

(Start: 11 @46896 has 46 MA's), (27, 46818), (Start: 31 @46797 has 6 MA's), (Start: 40 @46749 has 28 MA's), (Start: 41 @46746 has 86 MA's), (63, 46641), (71, 46569), (72, 46563), (76, 46551), (103, 46485), (117, 46380), (122, 46320), (123, 46317), (128, 46230), (131, 46209),

Gene: Funston_77 Start: 46895, Stop: 46161, Start Num: 11

Candidate Starts for Funston_77:

(Start: 11 @46895 has 46 MA's), (27, 46817), (Start: 31 @46796 has 6 MA's), (Start: 40 @46748 has 28 MA's), (Start: 41 @46745 has 86 MA's), (63, 46640), (71, 46568), (76, 46550), (103, 46484), (117, 46379), (122, 46319), (123, 46316), (128, 46229), (131, 46208),

Gene: Gadost_78 Start: 46749, Stop: 46165, Start Num: 41

Candidate Starts for Gadost_78:

(Start: 11 @46899 has 46 MA's), (27, 46821), (Start: 31 @46800 has 6 MA's), (Start: 40 @46752 has 28 MA's), (Start: 41 @46749 has 86 MA's), (63, 46644), (71, 46572), (76, 46554), (103, 46488), (117, 46383), (122, 46323), (123, 46320), (128, 46233), (131, 46212),

Gene: GaugeLDP_81 Start: 48551, Stop: 47844, Start Num: 47

Candidate Starts for GaugeLDP_81:

(Start: 11 @48725 has 46 MA's), (Start: 16 @48701 has 5 MA's), (Start: 29 @48644 has 13 MA's), (Start: 47 @48551 has 2 MA's), (58, 48503), (76, 48380), (77, 48374), (87, 48317), (88, 48302), (104, 48164), (115, 48086), (122, 48008), (123, 48005), (129, 47909), (130, 47906),

Gene: GigiOuiOui_66 Start: 44414, Stop: 45145, Start Num: 8

Candidate Starts for GigiOuiOui_66:

(Start: 8 @44414 has 13 MA's), (Start: 18 @44471 has 1 MA's), (25, 44513), (27, 44528), (Start: 31 @44549 has 6 MA's), (80, 44729), (115, 44921), (122, 45002), (123, 45005), (128, 45062), (133, 45110), (138, 45134),

Gene: Gladiator_86 Start: 47390, Stop: 46743, Start Num: 11

Candidate Starts for Gladiator_86:

(Start: 11 @47390 has 46 MA's), (Start: 16 @47366 has 5 MA's), (27, 47312), (Start: 29 @47309 has 13 MA's), (Start: 31 @47291 has 6 MA's), (Start: 32 @47279 has 4 MA's), (114, 46985), (122, 46904), (123, 46901), (129, 46808), (130, 46805),

Gene: Goose_79 Start: 46498, Stop: 45863, Start Num: 11

Candidate Starts for Goose_79:

(Start: 11 @46498 has 46 MA's), (Start: 16 @46474 has 5 MA's), (Start: 29 @46417 has 13 MA's), (71, 46282), (115, 46093), (122, 46015), (123, 46012), (125, 45979), (129, 45925),

Gene: Gruunaga_89 Start: 47345, Stop: 46698, Start Num: 11

Candidate Starts for Gruunaga_89:

(Start: 11 @47345 has 46 MA's), (Start: 16 @47321 has 5 MA's), (27, 47267), (Start: 29 @47264 has 13 MA's), (Start: 31 @47246 has 6 MA's), (Start: 32 @47234 has 4 MA's), (114, 46940), (122, 46859), (123, 46856), (129, 46763), (130, 46760),

Gene: HamCheese_43 Start: 27156, Stop: 27953, Start Num: 8

Candidate Starts for HamCheese_43:

(Start: 8 @27156 has 13 MA's), (19, 27222), (21, 27237), (27, 27273), (35, 27321), (38, 27333), (39, 27339), (94, 27555), (95, 27561), (116, 27729), (122, 27804), (123, 27807), (133, 27915), (134, 27924),

Gene: HamSlice_74 Start: 46747, Stop: 46163, Start Num: 41

Candidate Starts for HamSlice_74:

(Start: 11 @46897 has 46 MA's), (27, 46819), (Start: 31 @46798 has 6 MA's), (Start: 40 @46750 has 28 MA's), (Start: 41 @46747 has 86 MA's), (63, 46642), (71, 46570), (76, 46552), (103, 46486), (117, 46381), (122, 46321), (123, 46318), (128, 46231), (131, 46210),

Gene: Hammer_90 Start: 46941, Stop: 46405, Start Num: 32

Candidate Starts for Hammer_90:

(Start: 11 @47052 has 46 MA's), (Start: 16 @47028 has 5 MA's), (27, 46974), (Start: 29 @46971 has 13 MA's), (Start: 32 @46941 has 4 MA's), (114, 46647), (122, 46566), (123, 46563), (129, 46470), (130, 46467),

Gene: Happiness_77 Start: 46771, Stop: 46187, Start Num: 41

Candidate Starts for Happiness_77:

(Start: 11 @46921 has 46 MA's), (27, 46843), (Start: 31 @46822 has 6 MA's), (Start: 40 @46774 has 28 MA's), (Start: 41 @46771 has 86 MA's), (63, 46666), (71, 46594), (76, 46576), (103, 46510), (117, 46405), (122, 46345), (123, 46342), (128, 46255), (131, 46234),

Gene: Helmet_92 Start: 47580, Stop: 47029, Start Num: 31

Candidate Starts for Helmet_92:

(Start: 11 @47679 has 46 MA's), (Start: 16 @47655 has 5 MA's), (27, 47601), (Start: 29 @47598 has 13 MA's), (Start: 31 @47580 has 6 MA's), (114, 47274), (122, 47193), (123, 47190), (124, 47169), (129, 47094), (130, 47091),

Gene: Hexamo_89 Start: 47220, Stop: 46573, Start Num: 11

Candidate Starts for Hexamo_89:

(Start: 11 @47220 has 46 MA's), (Start: 16 @47196 has 5 MA's), (27, 47142), (Start: 29 @47139 has 13 MA's), (Start: 32 @47109 has 4 MA's), (114, 46815), (122, 46734), (123, 46731), (129, 46638), (130, 46635),

Gene: Holli_77 Start: 46541, Stop: 45954, Start Num: 40

Candidate Starts for Holli_77:

(Start: 11 @46688 has 46 MA's), (27, 46610), (Start: 31 @46589 has 6 MA's), (Start: 40 @46541 has 28 MA's), (Start: 41 @46538 has 86 MA's), (63, 46433), (71, 46361), (76, 46343), (103, 46277), (122, 46112), (123, 46109), (128, 46022), (131, 46001),

Gene: Hoot_83 Start: 45056, Stop: 44406, Start Num: 11

Candidate Starts for Hoot_83:

(Start: 11 @45056 has 46 MA's), (Start: 16 @45032 has 5 MA's), (27, 44978), (Start: 29 @44975 has 13 MA's), (Start: 31 @44957 has 6 MA's), (106, 44717), (112, 44693), (115, 44648), (122, 44570), (123, 44567), (124, 44546), (129, 44471), (130, 44468),

Gene: Houdini22_77 Start: 46749, Stop: 46165, Start Num: 41

Candidate Starts for Houdini22_77:

(Start: 11 @46899 has 46 MA's), (27, 46821), (Start: 31 @46800 has 6 MA's), (Start: 40 @46752 has 28 MA's), (Start: 41 @46749 has 86 MA's), (63, 46644), (71, 46572), (76, 46554), (103, 46488), (117, 46383), (122, 46323), (123, 46320), (128, 46233), (131, 46212),

Gene: Huxley_67 Start: 44641, Stop: 44057, Start Num: 41

Candidate Starts for Huxley_67:

(Start: 11 @44791 has 46 MA's), (27, 44713), (Start: 31 @44692 has 6 MA's), (Start: 40 @44644 has 28 MA's), (Start: 41 @44641 has 86 MA's), (63, 44536), (71, 44464), (76, 44446), (103, 44380), (117, 44275), (122, 44215), (123, 44212), (128, 44125), (131, 44104),

Gene: ICleared_77 Start: 46816, Stop: 46232, Start Num: 41

Candidate Starts for ICleared_77:

(Start: 11 @46966 has 46 MA's), (27, 46888), (Start: 31 @46867 has 6 MA's), (Start: 40 @46819 has 28 MA's), (Start: 41 @46816 has 86 MA's), (63, 46711), (71, 46639), (76, 46621), (103, 46555), (117, 46450), (122, 46390), (123, 46387), (128, 46300), (131, 46279),

Gene: Iceman_76 Start: 47038, Stop: 46454, Start Num: 41

Candidate Starts for Iceman_76:

(Start: 11 @47188 has 46 MA's), (27, 47110), (Start: 31 @47089 has 6 MA's), (Start: 40 @47041 has 28 MA's), (Start: 41 @47038 has 86 MA's), (63, 46933), (71, 46861), (76, 46843), (103, 46777), (117, 46672), (122, 46612), (123, 46609), (128, 46522), (131, 46501),

Gene: Iracema64_78 Start: 47012, Stop: 46428, Start Num: 41

Candidate Starts for Iracema64_78:

(Start: 11 @47162 has 46 MA's), (27, 47084), (Start: 31 @47063 has 6 MA's), (Start: 40 @47015 has 28 MA's), (Start: 41 @47012 has 86 MA's), (63, 46907), (71, 46835), (76, 46817), (103, 46751), (122, 46586), (123, 46583), (128, 46496), (131, 46475),

Gene: Isiphiwo_84 Start: 46767, Stop: 46117, Start Num: 11

Candidate Starts for Isiphiwo_84:

(Start: 11 @46767 has 46 MA's), (Start: 16 @46743 has 5 MA's), (27, 46689), (Start: 29 @46686 has 13 MA's), (Start: 31 @46668 has 6 MA's), (106, 46428), (112, 46404), (115, 46359), (122, 46281), (123, 46278), (124, 46257), (129, 46182), (130, 46179),

Gene: JangDynasty_5 Start: 1854, Stop: 1291, Start Num: 64

Candidate Starts for JangDynasty_5:

(Start: 64 @1854 has 6 MA's), (83, 1737), (86, 1722), (91, 1671), (92, 1668), (107, 1560), (110, 1551), (113, 1527), (122, 1422), (123, 1419), (131, 1344), (135, 1308),

Gene: Jaykayelowell_75 Start: 46891, Stop: 46157, Start Num: 11

Candidate Starts for Jaykayelowell_75:

(Start: 11 @46891 has 46 MA's), (27, 46813), (Start: 31 @46792 has 6 MA's), (Start: 40 @46744 has 28 MA's), (Start: 41 @46741 has 86 MA's), (63, 46636), (71, 46564), (76, 46546), (103, 46480), (122, 46315), (123, 46312), (128, 46225), (131, 46204),

Gene: JetBlade_79 Start: 46779, Stop: 46192, Start Num: 40

Candidate Starts for JetBlade_79:

(Start: 11 @46926 has 46 MA's), (27, 46848), (Start: 31 @46827 has 6 MA's), (Start: 40 @46779 has 28 MA's), (Start: 41 @46776 has 86 MA's), (63, 46671), (71, 46599), (76, 46581), (103, 46515), (122, 46350), (123, 46347), (128, 46260), (131, 46239),

Gene: JewelBug_80 Start: 45535, Stop: 44885, Start Num: 11

Candidate Starts for JewelBug_80:

(Start: 11 @45535 has 46 MA's), (Start: 16 @45511 has 5 MA's), (27, 45457), (Start: 29 @45454 has 13 MA's), (Start: 31 @45436 has 6 MA's), (106, 45196), (112, 45172), (115, 45127), (122, 45049), (123, 45046), (124, 45025), (129, 44950), (130, 44947),

Gene: Jinkies_3 Start: 2349, Stop: 3125, Start Num: 7

Candidate Starts for Jinkies_3:

(Start: 7 @2349 has 1 MA's), (21, 2442), (23, 2448), (27, 2478), (30, 2493), (56, 2571), (68, 2616), (75, 2649), (78, 2670), (79, 2676), (81, 2685), (84, 2700), (101, 2784), (102, 2793), (116, 2871), (122, 2952), (123, 2955), (128, 3015), (134, 3072),

Gene: JoongJeon_77 Start: 46892, Stop: 46158, Start Num: 11

Candidate Starts for JoongJeon_77:

(Start: 11 @46892 has 46 MA's), (27, 46814), (Start: 31 @46793 has 6 MA's), (Start: 40 @46745 has 28 MA's), (Start: 41 @46742 has 86 MA's), (63, 46637), (71, 46565), (76, 46547), (103, 46481), (117, 46376), (122, 46316), (123, 46313), (128, 46226), (131, 46205),

Gene: Jordennis_86 Start: 47439, Stop: 46789, Start Num: 11

Candidate Starts for Jordennis_86:

(Start: 11 @47439 has 46 MA's), (Start: 16 @47415 has 5 MA's), (27, 47361), (Start: 29 @47358 has 13 MA's), (Start: 31 @47340 has 6 MA's), (106, 47100), (112, 47076), (115, 47031), (122, 46953), (123, 46950), (124, 46929), (129, 46854), (130, 46851),

Gene: Juno112_42 Start: 27172, Stop: 27969, Start Num: 8

Candidate Starts for Juno112_42:

(Start: 8 @27172 has 13 MA's), (19, 27238), (21, 27253), (27, 27289), (35, 27337), (38, 27349), (39, 27355), (94, 27571), (95, 27577), (116, 27745), (122, 27820), (123, 27823), (133, 27931), (134, 27940),

Gene: KFPoly_77 Start: 46892, Stop: 46158, Start Num: 11

Candidate Starts for KFPoly_77:

(Start: 11 @46892 has 46 MA's), (27, 46814), (Start: 31 @46793 has 6 MA's), (Start: 40 @46745 has 28 MA's), (Start: 41 @46742 has 86 MA's), (63, 46637), (71, 46565), (76, 46547), (103, 46481), (117, 46376), (122, 46316), (123, 46313), (128, 46226), (131, 46205),

Gene: Kamy_77 Start: 46751, Stop: 46167, Start Num: 41

Candidate Starts for Kamy_77:

(Start: 11 @46901 has 46 MA's), (27, 46823), (Start: 31 @46802 has 6 MA's), (Start: 40 @46754 has 28 MA's), (Start: 41 @46751 has 86 MA's), (63, 46646), (71, 46574), (76, 46556), (103, 46490), (122, 46325), (123, 46322), (128, 46235), (131, 46214),

Gene: Katalie136_75 Start: 46530, Stop: 45958, Start Num: 43

Candidate Starts for Katalie136_75:

(Start: 11 @46692 has 46 MA's), (27, 46614), (Start: 31 @46593 has 6 MA's), (Start: 40 @46545 has 28 MA's), (Start: 41 @46542 has 86 MA's), (Start: 43 @46530 has 4 MA's), (63, 46437), (71, 46365), (76, 46347), (103, 46281), (117, 46176), (122, 46116), (123, 46113), (128, 46026), (131, 46005), (134, 45969),

Gene: Kazan_89 Start: 47187, Stop: 46561, Start Num: 16

Candidate Starts for Kazan_89:

(Start: 11 @47211 has 46 MA's), (Start: 16 @47187 has 5 MA's), (27, 47133), (Start: 29 @47130 has 13 MA's), (Start: 31 @47112 has 6 MA's), (106, 46872), (112, 46848), (115, 46803), (122, 46725), (123, 46722), (124, 46701), (129, 46626), (130, 46623),

Gene: KekoraPapaka_75 Start: 46748, Stop: 46164, Start Num: 41

Candidate Starts for KekoraPapaka_75:

(Start: 11 @46898 has 46 MA's), (27, 46820), (Start: 31 @46799 has 6 MA's), (Start: 40 @46751 has 28 MA's), (Start: 41 @46748 has 86 MA's), (63, 46643), (71, 46571), (72, 46565), (76, 46553), (103, 46487), (122, 46322), (123, 46319), (128, 46232), (131, 46211),

Gene: Keziacharles14_81 Start: 47447, Stop: 46881, Start Num: 29

Candidate Starts for Keziacharles14_81:

(Start: 11 @47528 has 46 MA's), (Start: 16 @47504 has 5 MA's), (27, 47450), (Start: 29 @47447 has 13 MA's), (37, 47396), (106, 47189), (111, 47168), (115, 47120), (122, 47042), (123, 47039), (128, 46952),

Gene: Kingmustik0402_78 Start: 46740, Stop: 46153, Start Num: 40

Candidate Starts for Kingmustik0402_78:

(Start: 11 @46887 has 46 MA's), (27, 46809), (Start: 31 @46788 has 6 MA's), (Start: 40 @46740 has 28 MA's), (Start: 41 @46737 has 86 MA's), (63, 46632), (71, 46560), (76, 46542), (103, 46476), (122, 46311), (123, 46308), (128, 46221), (131, 46200),

Gene: KittenMittens_74 Start: 45854, Stop: 45219, Start Num: 11

Candidate Starts for KittenMittens_74:

(Start: 11 @45854 has 46 MA's), (Start: 16 @45830 has 5 MA's), (Start: 29 @45773 has 13 MA's), (71, 45638), (115, 45449), (122, 45371), (123, 45368), (124, 45347), (125, 45335), (129, 45281),

Gene: Koan_75 Start: 46748, Stop: 46164, Start Num: 41

Candidate Starts for Koan_75:

(Start: 11 @46898 has 46 MA's), (27, 46820), (Start: 31 @46799 has 6 MA's), (Start: 40 @46751 has 28 MA's), (Start: 41 @46748 has 86 MA's), (63, 46643), (71, 46571), (76, 46553), (103, 46487), (117, 46382), (122, 46322), (123, 46319), (128, 46232), (131, 46211),

Gene: Koko_91 Start: 47970, Stop: 47419, Start Num: 31

Candidate Starts for Koko_91:

(Start: 11 @48069 has 46 MA's), (Start: 16 @48045 has 5 MA's), (27, 47991), (Start: 29 @47988 has 13 MA's), (Start: 31 @47970 has 6 MA's), (114, 47664), (122, 47583), (123, 47580), (124, 47559), (129, 47484), (130, 47481),

Gene: Koreni_77 Start: 46432, Stop: 45845, Start Num: 40

Candidate Starts for Koreni_77:

(Start: 11 @46579 has 46 MA's), (27, 46501), (Start: 31 @46480 has 6 MA's), (Start: 40 @46432 has 28 MA's), (Start: 41 @46429 has 86 MA's), (63, 46324), (71, 46252), (76, 46234), (103, 46168), (117, 46063), (122, 46003), (123, 46000), (128, 45913), (131, 45892),

Gene: Kratak_77 Start: 46932, Stop: 46198, Start Num: 11

Candidate Starts for Kratak_77:

(Start: 11 @46932 has 46 MA's), (27, 46854), (Start: 31 @46833 has 6 MA's), (Start: 40 @46785 has 28 MA's), (Start: 41 @46782 has 86 MA's), (63, 46677), (71, 46605), (76, 46587), (97, 46566), (103, 46521), (117, 46416), (122, 46356), (123, 46353), (128, 46266), (131, 46245),

Gene: Kremtemulon_75 Start: 46628, Stop: 46044, Start Num: 41

Candidate Starts for Kremtemulon_75:

(Start: 11 @46778 has 46 MA's), (27, 46700), (Start: 31 @46679 has 6 MA's), (Start: 40 @46631 has 28 MA's), (Start: 41 @46628 has 86 MA's), (63, 46523), (71, 46451), (76, 46433), (103, 46367), (117, 46262), (122, 46202), (123, 46199), (128, 46112), (131, 46091), (134, 46055),

Gene: Kristoff_76 Start: 47122, Stop: 46487, Start Num: 11

Candidate Starts for Kristoff_76:

(Start: 11 @47122 has 46 MA's), (Start: 16 @47098 has 5 MA's), (Start: 29 @47041 has 13 MA's), (37, 46990), (71, 46906), (115, 46717), (122, 46639), (123, 46636), (125, 46603), (129, 46549),

Gene: Kyee_78 Start: 46743, Stop: 46159, Start Num: 41

Candidate Starts for Kyee_78:

(Start: 11 @46893 has 46 MA's), (27, 46815), (Start: 31 @46794 has 6 MA's), (Start: 40 @46746 has 28 MA's), (Start: 41 @46743 has 86 MA's), (63, 46638), (71, 46566), (76, 46548), (103, 46482), (117, 46377), (122, 46317), (123, 46314), (128, 46227), (131, 46206),

Gene: LHTSCC_80 Start: 47191, Stop: 46604, Start Num: 40

Candidate Starts for LHTSCC_80:

(Start: 11 @47338 has 46 MA's), (27, 47260), (Start: 31 @47239 has 6 MA's), (Start: 40 @47191 has 28 MA's), (Start: 41 @47188 has 86 MA's), (63, 47083), (71, 47011), (76, 46993), (103, 46927), (117, 46822), (122, 46762), (123, 46759), (128, 46672), (131, 46651),

Gene: Laphuphu24k_42 Start: 27156, Stop: 27953, Start Num: 8

Candidate Starts for Laphuphu24k_42:

(Start: 8 @27156 has 13 MA's), (19, 27222), (21, 27237), (27, 27273), (35, 27321), (38, 27333), (39, 27339), (94, 27555), (95, 27561), (116, 27729), (122, 27804), (123, 27807), (133, 27915), (134, 27924),

Gene: LappelDuVide_78 Start: 46748, Stop: 46164, Start Num: 41

Candidate Starts for LappelDuVide_78:

(Start: 11 @46898 has 46 MA's), (27, 46820), (Start: 31 @46799 has 6 MA's), (Start: 40 @46751 has 28 MA's), (Start: 41 @46748 has 86 MA's), (63, 46643), (71, 46571), (76, 46553), (103, 46487), (117, 46382), (122, 46322), (123, 46319), (128, 46232), (131, 46211),

Gene: Lemur_78 Start: 46745, Stop: 46161, Start Num: 41

Candidate Starts for Lemur_78:

(Start: 11 @46895 has 46 MA's), (27, 46817), (Start: 31 @46796 has 6 MA's), (Start: 40 @46748 has 28 MA's), (Start: 41 @46745 has 86 MA's), (63, 46640), (71, 46568), (72, 46562), (76, 46550), (103, 46484), (117, 46379), (122, 46319), (123, 46316), (128, 46229), (131, 46208),

Gene: Leona_42 Start: 27237, Stop: 28046, Start Num: 8

Candidate Starts for Leona_42:

(Start: 8 @27237 has 13 MA's), (19, 27303), (21, 27318), (27, 27354), (35, 27402), (38, 27414), (39, 27420), (95, 27654), (96, 27657), (108, 27759), (116, 27822), (122, 27897), (123, 27900), (134, 28017),

Gene: LittleB_78 Start: 46899, Stop: 46165, Start Num: 11

Candidate Starts for LittleB_78:

(Start: 11 @46899 has 46 MA's), (27, 46821), (Start: 31 @46800 has 6 MA's), (Start: 40 @46752 has 28 MA's), (Start: 41 @46749 has 86 MA's), (63, 46644), (71, 46572), (76, 46554), (103, 46488), (117, 46383), (122, 46323), (123, 46320), (128, 46233), (131, 46212),

Gene: LittleGuy_78 Start: 46633, Stop: 46049, Start Num: 41

Candidate Starts for LittleGuy_78:

(Start: 11 @46783 has 46 MA's), (27, 46705), (Start: 31 @46684 has 6 MA's), (Start: 40 @46636 has 28 MA's), (Start: 41 @46633 has 86 MA's), (63, 46528), (71, 46456), (76, 46438), (103, 46372), (117, 46267), (122, 46207), (123, 46204), (128, 46117), (131, 46096),

Gene: LochMonster_79 Start: 46985, Stop: 46401, Start Num: 41

Candidate Starts for LochMonster_79:

(Start: 11 @47135 has 46 MA's), (27, 47057), (Start: 31 @47036 has 6 MA's), (Start: 40 @46988 has 28 MA's), (Start: 41 @46985 has 86 MA's), (63, 46880), (71, 46808), (76, 46790), (103, 46724), (122, 46559), (123, 46556), (128, 46469), (131, 46448),

Gene: LoneWolf_84 Start: 46963, Stop: 46397, Start Num: 29

Candidate Starts for LoneWolf_84:

(Start: 11 @47044 has 46 MA's), (Start: 16 @47020 has 5 MA's), (27, 46966), (Start: 29 @46963 has 13 MA's), (106, 46705), (111, 46684), (122, 46558), (123, 46555), (128, 46468),

Gene: Lorenzo_78 Start: 46746, Stop: 46162, Start Num: 41

Candidate Starts for Lorenzo_78:

(Start: 11 @46896 has 46 MA's), (27, 46818), (Start: 31 @46797 has 6 MA's), (Start: 40 @46749 has 28 MA's), (Start: 41 @46746 has 86 MA's), (63, 46641), (71, 46569), (76, 46551), (103, 46485), (117, 46380), (122, 46320), (123, 46317), (128, 46230), (131, 46209),

Gene: Lunsford_78 Start: 46741, Stop: 46157, Start Num: 41

Candidate Starts for Lunsford_78:

(Start: 11 @46891 has 46 MA's), (27, 46813), (Start: 31 @46792 has 6 MA's), (Start: 40 @46744 has 28 MA's), (Start: 41 @46741 has 86 MA's), (63, 46636), (71, 46564), (76, 46546), (103, 46480), (122, 46315), (123, 46312), (128, 46225), (131, 46204),

Gene: Maminiaina_83 Start: 46878, Stop: 46300, Start Num: 29

Candidate Starts for Maminiaina_83:

(Start: 11 @46959 has 46 MA's), (15, 46938), (Start: 16 @46935 has 5 MA's), (Start: 29 @46878 has 13 MA's), (37, 46827), (106, 46620), (111, 46599), (122, 46473), (123, 46470), (128, 46383), (131, 46362), (136, 46317),

Gene: Maverick_77 Start: 46745, Stop: 46161, Start Num: 41

Candidate Starts for Maverick_77:

(Start: 11 @46895 has 46 MA's), (27, 46817), (Start: 31 @46796 has 6 MA's), (Start: 40 @46748 has 28 MA's), (Start: 41 @46745 has 86 MA's), (63, 46640), (71, 46568), (76, 46550), (103, 46484), (117, 46379), (122, 46319), (123, 46316), (128, 46229), (131, 46208),

Gene: Maxo_80 Start: 46754, Stop: 46167, Start Num: 40

Candidate Starts for Maxo_80:

(Start: 11 @46901 has 46 MA's), (27, 46823), (Start: 31 @46802 has 6 MA's), (Start: 40 @46754 has 28 MA's), (Start: 41 @46751 has 86 MA's), (63, 46646), (71, 46574), (76, 46556), (103, 46490), (122, 46325), (123, 46322), (128, 46235), (131, 46214),

Gene: Mazhar510_78 Start: 46749, Stop: 46162, Start Num: 40

Candidate Starts for Mazhar510_78:

(Start: 11 @46896 has 46 MA's), (27, 46818), (Start: 31 @46797 has 6 MA's), (Start: 40 @46749 has 28 MA's), (Start: 41 @46746 has 86 MA's), (63, 46641), (71, 46569), (76, 46551), (103, 46485), (117, 46380), (122, 46320), (123, 46317), (128, 46230), (131, 46209),

Gene: Medusa_77 Start: 46761, Stop: 46177, Start Num: 41

Candidate Starts for Medusa_77:

(Start: 11 @46911 has 46 MA's), (27, 46833), (Start: 31 @46812 has 6 MA's), (Start: 40 @46764 has 28 MA's), (Start: 41 @46761 has 86 MA's), (63, 46656), (71, 46584), (76, 46566), (103, 46500), (122, 46335), (123, 46332), (128, 46245), (131, 46224),

Gene: MeeZee_77 Start: 46742, Stop: 46158, Start Num: 41

Candidate Starts for MeeZee_77:

(Start: 11 @46892 has 46 MA's), (27, 46814), (Start: 31 @46793 has 6 MA's), (Start: 40 @46745 has 28 MA's), (Start: 41 @46742 has 86 MA's), (63, 46637), (71, 46565), (76, 46547), (103, 46481), (117, 46376), (122, 46316), (123, 46313), (128, 46226), (131, 46205),

Gene: Melvin_80 Start: 46743, Stop: 46159, Start Num: 41

Candidate Starts for Melvin_80:

(Start: 11 @46893 has 46 MA's), (27, 46815), (Start: 31 @46794 has 6 MA's), (Start: 40 @46746 has 28 MA's), (Start: 41 @46743 has 86 MA's), (63, 46638), (71, 46566), (72, 46560), (76, 46548), (103, 46482), (117, 46377), (122, 46317), (123, 46314), (128, 46227), (131, 46206),

Gene: Millski_77 Start: 46749, Stop: 46165, Start Num: 41

Candidate Starts for Millski_77:

(Start: 11 @46899 has 46 MA's), (27, 46821), (Start: 31 @46800 has 6 MA's), (Start: 40 @46752 has 28 MA's), (Start: 41 @46749 has 86 MA's), (63, 46644), (71, 46572), (76, 46554), (103, 46488), (117, 46383), (122, 46323), (123, 46320), (128, 46233), (131, 46212),

Gene: Miramae_78 Start: 46572, Stop: 45991, Start Num: 41

Candidate Starts for Miramae_78:

(Start: 11 @46722 has 46 MA's), (27, 46644), (Start: 31 @46623 has 6 MA's), (37, 46590), (Start: 41 @46572 has 86 MA's), (57, 46503), (60, 46497), (Start: 62 @46485 has 2 MA's), (103, 46314), (122, 46149), (123, 46146), (128, 46059), (131, 46038), (134, 46002),

Gene: Morpher26_75 Start: 46563, Stop: 45979, Start Num: 41

Candidate Starts for Morpher26_75:

(Start: 11 @46713 has 46 MA's), (27, 46635), (Start: 31 @46614 has 6 MA's), (Start: 40 @46566 has 28 MA's), (Start: 41 @46563 has 86 MA's), (Start: 43 @46551 has 4 MA's), (63, 46458), (71, 46386), (76, 46368), (103, 46302), (117, 46197), (122, 46137), (123, 46134), (128, 46047), (131, 46026), (134, 45990),

Gene: Morrow_80 Start: 46788, Stop: 46204, Start Num: 41

Candidate Starts for Morrow_80:

(Start: 11 @46938 has 46 MA's), (27, 46860), (Start: 31 @46839 has 6 MA's), (Start: 40 @46791 has 28 MA's), (Start: 41 @46788 has 86 MA's), (63, 46683), (71, 46611), (76, 46593), (122, 46362), (123, 46359), (128, 46272), (131, 46251),

Gene: Mundrea_77 Start: 46850, Stop: 46224, Start Num: 31

Candidate Starts for Mundrea_77:

(Start: 11 @46949 has 46 MA's), (27, 46871), (Start: 31 @46850 has 6 MA's), (57, 46730), (103, 46547), (107, 46526), (122, 46382), (123, 46379), (128, 46292), (131, 46271),

Gene: Nebs_79 Start: 46788, Stop: 46204, Start Num: 41

Candidate Starts for Nebs_79:

(Start: 11 @46938 has 46 MA's), (27, 46860), (Start: 31 @46839 has 6 MA's), (Start: 40 @46791 has 28 MA's), (Start: 41 @46788 has 86 MA's), (63, 46683), (71, 46611), (76, 46593), (103, 46527), (122, 46362), (123, 46359), (128, 46272), (131, 46251),

Gene: Nemo27_77 Start: 46744, Stop: 46160, Start Num: 41

Candidate Starts for Nemo27_77:

(Start: 11 @46894 has 46 MA's), (27, 46816), (Start: 31 @46795 has 6 MA's), (Start: 40 @46747 has 28 MA's), (Start: 41 @46744 has 86 MA's), (63, 46639), (71, 46567), (76, 46549), (103, 46483), (117, 46378), (122, 46318), (123, 46315), (128, 46228), (131, 46207),

Gene: Noelle_76 Start: 46925, Stop: 46305, Start Num: 11

Candidate Starts for Noelle_76:

(Start: 11 @46925 has 46 MA's), (Start: 16 @46901 has 5 MA's), (Start: 29 @46844 has 13 MA's), (108, 46592), (115, 46529), (122, 46451), (123, 46448), (129, 46367), (131, 46352), (134, 46316),

Gene: NorthStar_75 Start: 46748, Stop: 46164, Start Num: 41

Candidate Starts for NorthStar_75:

(Start: 11 @46898 has 46 MA's), (27, 46820), (Start: 31 @46799 has 6 MA's), (Start: 40 @46751 has 28 MA's), (Start: 41 @46748 has 86 MA's), (63, 46643), (71, 46571), (72, 46565), (76, 46553), (103, 46487), (117, 46382), (122, 46322), (123, 46319), (128, 46232), (131, 46211),

Gene: NotAPhaseMom_77 Start: 46749, Stop: 46165, Start Num: 41

Candidate Starts for NotAPhaseMom_77:

(Start: 11 @46899 has 46 MA's), (27, 46821), (Start: 31 @46800 has 6 MA's), (Start: 40 @46752 has 28 MA's), (Start: 41 @46749 has 86 MA's), (63, 46644), (71, 46572), (76, 46554), (103, 46488), (117, 46383), (122, 46323), (123, 46320), (128, 46233), (131, 46212),

Gene: Nyxis_77 Start: 46630, Stop: 46043, Start Num: 40

Candidate Starts for Nyxis_77:

(Start: 11 @46777 has 46 MA's), (27, 46699), (Start: 31 @46678 has 6 MA's), (Start: 40 @46630 has 28 MA's), (Start: 41 @46627 has 86 MA's), (63, 46522), (71, 46450), (76, 46432), (103, 46366), (122, 46201), (123, 46198), (128, 46111), (131, 46090),

Gene: OKCentral2016_77 Start: 45901, Stop: 45290, Start Num: 16

Candidate Starts for OKCentral2016_77:

(Start: 11 @45925 has 46 MA's), (Start: 16 @45901 has 5 MA's), (Start: 29 @45844 has 13 MA's), (71, 45709), (115, 45520), (122, 45442), (123, 45439), (125, 45406), (129, 45352),

Gene: OKaNui_77 Start: 46799, Stop: 46215, Start Num: 41

Candidate Starts for OKaNui_77:

(Start: 11 @46949 has 46 MA's), (27, 46871), (Start: 31 @46850 has 6 MA's), (Start: 40 @46802 has 28 MA's), (Start: 41 @46799 has 86 MA's), (63, 46694), (71, 46622), (76, 46604), (103, 46538), (117, 46433), (122, 46373), (123, 46370), (128, 46283), (131, 46262),

Gene: Obama12_79 Start: 47172, Stop: 46588, Start Num: 41

Candidate Starts for Obama12_79:

(Start: 11 @47322 has 46 MA's), (27, 47244), (Start: 31 @47223 has 6 MA's), (Start: 40 @47175 has 28 MA's), (Start: 41 @47172 has 86 MA's), (63, 47067), (71, 46995), (76, 46977), (103, 46911), (117, 46806), (122, 46746), (123, 46743), (128, 46656), (131, 46635),

Gene: Ohfah_79 Start: 46791, Stop: 46204, Start Num: 40

Candidate Starts for Ohfah_79:

(Start: 11 @46938 has 46 MA's), (27, 46860), (Start: 31 @46839 has 6 MA's), (Start: 40 @46791 has 28 MA's), (Start: 41 @46788 has 86 MA's), (63, 46683), (71, 46611), (76, 46593), (103, 46527), (122, 46362), (123, 46359), (128, 46272), (131, 46251),

Gene: Oppalora_42 Start: 27170, Stop: 27967, Start Num: 8

Candidate Starts for Oppalora_42:

(Start: 8 @27170 has 13 MA's), (19, 27236), (21, 27251), (27, 27287), (35, 27335), (38, 27347), (39, 27353), (94, 27569), (95, 27575), (116, 27743), (122, 27818), (123, 27821), (133, 27929), (134, 27938),

Gene: Palestino_77 Start: 46895, Stop: 46161, Start Num: 11

Candidate Starts for Palestino_77:

(Start: 11 @46895 has 46 MA's), (27, 46817), (Start: 31 @46796 has 6 MA's), (Start: 40 @46748 has 28 MA's), (Start: 41 @46745 has 86 MA's), (63, 46640), (71, 46568), (76, 46550), (103, 46484), (117, 46379), (122, 46319), (123, 46316), (128, 46229), (131, 46208),

Gene: Peaches_76 Start: 46747, Stop: 46163, Start Num: 41

Candidate Starts for Peaches_76:

(Start: 11 @46897 has 46 MA's), (27, 46819), (Start: 31 @46798 has 6 MA's), (Start: 40 @46750 has 28 MA's), (Start: 41 @46747 has 86 MA's), (63, 46642), (71, 46570), (76, 46552), (103, 46486), (117, 46381), (122, 46321), (123, 46318), (128, 46231), (131, 46210),

Gene: Perplexer_75 Start: 46531, Stop: 45959, Start Num: 43

Candidate Starts for Perplexer_75:

(Start: 11 @46693 has 46 MA's), (27, 46615), (Start: 31 @46594 has 6 MA's), (Start: 40 @46546 has 28 MA's), (Start: 41 @46543 has 86 MA's), (Start: 43 @46531 has 4 MA's), (63, 46438), (71, 46366), (76, 46348), (103, 46282), (117, 46177), (122, 46117), (123, 46114), (128, 46027), (131, 46006),

Gene: PeterPeter_78 Start: 46742, Stop: 46158, Start Num: 41

Candidate Starts for PeterPeter_78:

(Start: 11 @46892 has 46 MA's), (27, 46814), (Start: 31 @46793 has 6 MA's), (Start: 40 @46745 has 28 MA's), (Start: 41 @46742 has 86 MA's), (63, 46637), (71, 46565), (76, 46547), (103, 46481), (117, 46376), (122, 46316), (123, 46313), (128, 46226), (131, 46205),

Gene: PetiteSangsue_75 Start: 46546, Stop: 45962, Start Num: 41

Candidate Starts for PetiteSangsue_75:

(Start: 11 @46696 has 46 MA's), (27, 46618), (Start: 31 @46597 has 6 MA's), (Start: 40 @46549 has 28 MA's), (Start: 41 @46546 has 86 MA's), (Start: 43 @46534 has 4 MA's), (63, 46441), (71, 46369), (76, 46351), (103, 46285), (117, 46180), (122, 46120), (123, 46117), (128, 46030), (131, 46009),

Gene: Phacado_78 Start: 46744, Stop: 46160, Start Num: 41

Candidate Starts for Phacado_78:

(Start: 11 @46894 has 46 MA's), (27, 46816), (Start: 31 @46795 has 6 MA's), (Start: 40 @46747 has 28 MA's), (Start: 41 @46744 has 86 MA's), (63, 46639), (71, 46567), (76, 46549), (103, 46483), (117, 46378), (122, 46318), (123, 46315), (128, 46228), (131, 46207),

Gene: Phanphagia_66 Start: 43660, Stop: 44277, Start Num: 18

Candidate Starts for Phanphagia_66:

(Start: 8 @43603 has 13 MA's), (Start: 18 @43660 has 1 MA's), (22, 43684), (27, 43717), (Start: 31 @43738 has 6 MA's), (37, 43771), (Start: 41 @43789 has 86 MA's), (59, 43798), (90, 43876), (122, 44125), (123, 44128), (125, 44158), (128, 44185), (138, 44266),

Gene: Pharaoh_78 Start: 47942, Stop: 47292, Start Num: 11

Candidate Starts for Pharaoh_78:

(Start: 11 @47942 has 46 MA's), (Start: 16 @47918 has 5 MA's), (Start: 29 @47861 has 13 MA's), (106, 47600), (111, 47579), (122, 47456), (123, 47453), (124, 47432), (129, 47360), (130, 47357),

Gene: Phelipe_79 Start: 46788, Stop: 46204, Start Num: 41

Candidate Starts for Phelipe_79:

(Start: 11 @46938 has 46 MA's), (27, 46860), (Start: 31 @46839 has 6 MA's), (Start: 40 @46791 has 28 MA's), (Start: 41 @46788 has 86 MA's), (63, 46683), (71, 46611), (76, 46593), (103, 46527), (122, 46362), (123, 46359), (128, 46272), (131, 46251),

Gene: Phighter1804_78 Start: 46809, Stop: 46225, Start Num: 41

Candidate Starts for Phighter1804_78:

(Start: 11 @46959 has 46 MA's), (27, 46881), (Start: 31 @46860 has 6 MA's), (Start: 40 @46812 has 28 MA's), (Start: 41 @46809 has 86 MA's), (63, 46704), (71, 46632), (76, 46614), (103, 46548), (117, 46443), (122, 46383), (123, 46380), (128, 46293), (131, 46272),

Gene: PhluffyCoco_43 Start: 27444, Stop: 28064, Start Num: 50

Candidate Starts for PhluffyCoco_43:

(Start: 8 @27168 has 13 MA's), (19, 27234), (21, 27249), (27, 27285), (35, 27333), (38, 27345), (39, 27351), (45, 27375), (Start: 50 @27444 has 2 MA's), (53, 27462), (94, 27666), (95, 27672), (116, 27840), (122, 27915), (123, 27918), (133, 28026), (134, 28035),

Gene: Phontbonne_78 Start: 46643, Stop: 46059, Start Num: 41

Candidate Starts for Phontbonne_78:

(Start: 11 @46793 has 46 MA's), (27, 46715), (Start: 31 @46694 has 6 MA's), (Start: 40 @46646 has 28 MA's), (Start: 41 @46643 has 86 MA's), (63, 46538), (71, 46466), (76, 46448), (103, 46382), (122, 46217), (123, 46214), (128, 46127), (131, 46106),

Gene: Pipcraft_74 Start: 46749, Stop: 46165, Start Num: 41

Candidate Starts for Pipcraft_74:

(Start: 11 @46899 has 46 MA's), (27, 46821), (Start: 31 @46800 has 6 MA's), (Start: 40 @46752 has 28 MA's), (Start: 41 @46749 has 86 MA's), (63, 46644), (71, 46572), (72, 46566), (76, 46554), (103, 46488), (117, 46383), (122, 46323), (123, 46320), (128, 46233), (131, 46212),

Gene: Poenanya_74 Start: 45998, Stop: 46735, Start Num: 8

Candidate Starts for Poenanya_74:

(Start: 8 @45998 has 13 MA's), (Start: 18 @46055 has 1 MA's), (22, 46079), (25, 46097), (27, 46112), (Start: 31 @46133 has 6 MA's), (37, 46166), (Start: 41 @46184 has 86 MA's), (90, 46343), (115, 46505), (122, 46583), (123, 46586), (124, 46607), (125, 46616), (128, 46643), (138, 46724),

Gene: Polymorphads_79 Start: 46772, Stop: 46185, Start Num: 40

Candidate Starts for Polymorphads_79:

(Start: 11 @46919 has 46 MA's), (27, 46841), (Start: 31 @46820 has 6 MA's), (Start: 40 @46772 has 28 MA's), (Start: 41 @46769 has 86 MA's), (63, 46664), (71, 46592), (76, 46574), (103, 46508), (117, 46403), (122, 46343), (123, 46340), (128, 46253), (131, 46232),

Gene: Polyphemus_81 Start: 45619, Stop: 44969, Start Num: 11

Candidate Starts for Polyphemus_81:

(Start: 11 @45619 has 46 MA's), (Start: 16 @45595 has 5 MA's), (27, 45541), (Start: 29 @45538 has 13 MA's), (Start: 31 @45520 has 6 MA's), (106, 45280), (112, 45256), (115, 45211), (122, 45133), (123, 45130), (124, 45109), (129, 45034), (130, 45031),

Gene: Priya_82 Start: 46693, Stop: 46046, Start Num: 11

Candidate Starts for Priya_82:

(Start: 11 @46693 has 46 MA's), (Start: 16 @46669 has 5 MA's), (27, 46615), (Start: 29 @46612 has 13 MA's), (37, 46561), (106, 46354), (111, 46333), (115, 46285), (122, 46207), (123, 46204), (128, 46117),

Gene: Pumbaa_78 Start: 46696, Stop: 46109, Start Num: 40

Candidate Starts for Pumbaa_78:

(Start: 11 @46843 has 46 MA's), (27, 46765), (Start: 31 @46744 has 6 MA's), (Start: 40 @46696 has 28 MA's), (Start: 41 @46693 has 86 MA's), (63, 46588), (71, 46516), (76, 46498), (103, 46432), (117, 46327), (122, 46267), (123, 46264), (128, 46177), (131, 46156),

Gene: Rahalelujah_83 Start: 46456, Stop: 45809, Start Num: 11

Candidate Starts for Rahalelujah_83:

(Start: 11 @46456 has 46 MA's), (Start: 16 @46432 has 5 MA's), (27, 46378), (Start: 29 @46375 has 13 MA's), (106, 46117), (111, 46096), (116, 46045), (118, 46024), (122, 45970), (123, 45967), (128,

45880),

Gene: RedBird_72 Start: 44502, Stop: 45227, Start Num: 8

Candidate Starts for RedBird_72:

(Start: 8 @44502 has 13 MA's), (Start: 18 @44559 has 1 MA's), (22, 44583), (25, 44589), (27, 44604), (Start: 31 @44625 has 6 MA's), (37, 44658), (Start: 41 @44676 has 86 MA's), (90, 44835), (115, 44997), (122, 45075), (123, 45078), (124, 45099), (125, 45108), (128, 45135), (138, 45216),

Gene: RedFox_43 Start: 27443, Stop: 28063, Start Num: 50

Candidate Starts for RedFox_43:

(Start: 8 @27167 has 13 MA's), (19, 27233), (21, 27248), (27, 27284), (35, 27332), (38, 27344), (39, 27350), (45, 27374), (Start: 50 @27443 has 2 MA's), (53, 27461), (94, 27665), (95, 27671), (116, 27839), (122, 27914), (123, 27917), (133, 28025), (134, 28034),

Gene: Refuge_81 Start: 48475, Stop: 47903, Start Num: 29

Candidate Starts for Refuge_81:

(Start: 11 @48556 has 46 MA's), (Start: 16 @48532 has 5 MA's), (Start: 29 @48475 has 13 MA's), (74, 48319), (111, 48193), (122, 48067), (123, 48064), (129, 47971), (130, 47968), (133, 47929),

Gene: Relief_77 Start: 46745, Stop: 46161, Start Num: 41

Candidate Starts for Relief_77:

(Start: 11 @46895 has 46 MA's), (27, 46817), (Start: 31 @46796 has 6 MA's), (Start: 40 @46748 has 28 MA's), (Start: 41 @46745 has 86 MA's), (63, 46640), (71, 46568), (76, 46550), (103, 46484), (117, 46379), (122, 46319), (123, 46316), (128, 46229), (131, 46208),

Gene: Rifter_90 Start: 46847, Stop: 46200, Start Num: 11

Candidate Starts for Rifter_90:

(Start: 11 @46847 has 46 MA's), (Start: 16 @46823 has 5 MA's), (27, 46769), (Start: 29 @46766 has 13 MA's), (Start: 32 @46736 has 4 MA's), (114, 46442), (122, 46361), (123, 46358), (129, 46265), (130, 46262),

Gene: RockieBear_75 Start: 46750, Stop: 46163, Start Num: 40

Candidate Starts for RockieBear_75:

(Start: 11 @46897 has 46 MA's), (27, 46819), (Start: 31 @46798 has 6 MA's), (Start: 40 @46750 has 28 MA's), (Start: 41 @46747 has 86 MA's), (63, 46642), (71, 46570), (72, 46564), (76, 46552), (103, 46486), (117, 46381), (122, 46321), (123, 46318), (128, 46231), (131, 46210),

Gene: Roksolana_90 Start: 47563, Stop: 46916, Start Num: 11

Candidate Starts for Roksolana_90:

(Start: 11 @47563 has 46 MA's), (Start: 16 @47539 has 5 MA's), (27, 47485), (Start: 29 @47482 has 13 MA's), (Start: 32 @47452 has 4 MA's), (114, 47158), (122, 47077), (123, 47074), (129, 46981), (130, 46978),

Gene: Romney_77 Start: 46745, Stop: 46161, Start Num: 41

Candidate Starts for Romney_77:

(Start: 11 @46895 has 46 MA's), (27, 46817), (Start: 31 @46796 has 6 MA's), (Start: 40 @46748 has 28 MA's), (Start: 41 @46745 has 86 MA's), (63, 46640), (71, 46568), (72, 46562), (76, 46550), (103, 46484), (117, 46379), (122, 46319), (123, 46316), (128, 46229), (131, 46208),

Gene: Roosevelt_76 Start: 46750, Stop: 46166, Start Num: 41

Candidate Starts for Roosevelt_76:

(Start: 11 @46900 has 46 MA's), (27, 46822), (Start: 31 @46801 has 6 MA's), (Start: 40 @46753 has 28 MA's), (Start: 41 @46750 has 86 MA's), (63, 46645), (71, 46573), (76, 46555), (103, 46489), (122,

46324), (123, 46321), (128, 46234), (131, 46213),

Gene: Rosa24_74 Start: 46779, Stop: 46192, Start Num: 40

Candidate Starts for Rosa24_74:

(Start: 11 @46926 has 46 MA's), (27, 46848), (Start: 31 @46827 has 6 MA's), (Start: 40 @46779 has 28 MA's), (Start: 41 @46776 has 86 MA's), (63, 46671), (71, 46599), (76, 46581), (103, 46515), (122, 46350), (123, 46347), (128, 46260), (131, 46239),

Gene: Ruin_78 Start: 46741, Stop: 46157, Start Num: 41

Candidate Starts for Ruin_78:

(Start: 11 @46891 has 46 MA's), (27, 46813), (Start: 31 @46792 has 6 MA's), (Start: 40 @46744 has 28 MA's), (Start: 41 @46741 has 86 MA's), (63, 46636), (71, 46564), (72, 46558), (76, 46546), (103, 46480), (117, 46375), (122, 46315), (123, 46312), (128, 46225), (131, 46204),

Gene: Sabertooth_78 Start: 46756, Stop: 46169, Start Num: 40

Candidate Starts for Sabertooth_78:

(Start: 11 @46903 has 46 MA's), (27, 46825), (Start: 31 @46804 has 6 MA's), (Start: 40 @46756 has 28 MA's), (Start: 41 @46753 has 86 MA's), (63, 46648), (71, 46576), (76, 46558), (103, 46492), (117, 46387), (122, 46327), (123, 46324), (128, 46237), (131, 46216),

Gene: Scamp_78 Start: 46750, Stop: 46166, Start Num: 41

Candidate Starts for Scamp_78:

(Start: 11 @46900 has 46 MA's), (27, 46822), (Start: 31 @46801 has 6 MA's), (Start: 40 @46753 has 28 MA's), (Start: 41 @46750 has 86 MA's), (63, 46645), (71, 46573), (76, 46555), (103, 46489), (117, 46384), (122, 46324), (123, 46321), (128, 46234), (131, 46213),

Gene: SenorClean_79 Start: 46748, Stop: 46164, Start Num: 41

Candidate Starts for SenorClean_79:

(Start: 11 @46898 has 46 MA's), (27, 46820), (Start: 31 @46799 has 6 MA's), (Start: 40 @46751 has 28 MA's), (Start: 41 @46748 has 86 MA's), (63, 46643), (71, 46571), (76, 46553), (103, 46487), (122, 46322), (123, 46319), (128, 46232), (131, 46211),

Gene: Shaka_76 Start: 46746, Stop: 46162, Start Num: 41

Candidate Starts for Shaka_76:

(Start: 11 @46896 has 46 MA's), (27, 46818), (Start: 31 @46797 has 6 MA's), (Start: 40 @46749 has 28 MA's), (Start: 41 @46746 has 86 MA's), (63, 46641), (71, 46569), (76, 46551), (103, 46485), (122, 46320), (123, 46317), (128, 46230), (131, 46209),

Gene: SheaKeira_79 Start: 46163, Stop: 45585, Start Num: 29

Candidate Starts for SheaKeira_79:

(Start: 11 @46244 has 46 MA's), (Start: 16 @46220 has 5 MA's), (27, 46166), (Start: 29 @46163 has 13 MA's), (106, 45905), (111, 45884), (115, 45836), (120, 45797), (122, 45758), (123, 45755), (127, 45689), (128, 45668), (131, 45647), (136, 45602),

Gene: SheldonCooper_78 Start: 47186, Stop: 46602, Start Num: 41

Candidate Starts for SheldonCooper_78:

(Start: 11 @47336 has 46 MA's), (27, 47258), (Start: 31 @47237 has 6 MA's), (Start: 40 @47189 has 28 MA's), (Start: 41 @47186 has 86 MA's), (63, 47081), (71, 47009), (76, 46991), (103, 46925), (122, 46760), (123, 46757), (128, 46670), (131, 46649),

Gene: Shygu2_76 Start: 46692, Stop: 46108, Start Num: 41

Candidate Starts for Shygu2_76:

(Start: 11 @46842 has 46 MA's), (27, 46764), (Start: 31 @46743 has 6 MA's), (Start: 40 @46695 has 28 MA's), (Start: 41 @46692 has 86 MA's), (Start: 43 @46680 has 4 MA's), (63, 46587), (71, 46515), (76, 46497), (103, 46431), (117, 46326), (122, 46266), (123, 46263), (128, 46176), (131, 46155), (134, 46119),

Gene: Skipitt_77 Start: 46745, Stop: 46158, Start Num: 40

Candidate Starts for Skipitt_77:

(Start: 11 @46892 has 46 MA's), (27, 46814), (Start: 31 @46793 has 6 MA's), (Start: 40 @46745 has 28 MA's), (Start: 41 @46742 has 86 MA's), (63, 46637), (71, 46565), (72, 46559), (76, 46547), (103, 46481), (117, 46376), (122, 46316), (123, 46313), (128, 46226), (131, 46205),

Gene: SmellyB_88 Start: 47181, Stop: 46555, Start Num: 16

Candidate Starts for SmellyB_88:

(Start: 11 @47205 has 46 MA's), (Start: 16 @47181 has 5 MA's), (27, 47127), (Start: 29 @47124 has 13 MA's), (Start: 31 @47106 has 6 MA's), (106, 46866), (112, 46842), (115, 46797), (122, 46719), (123, 46716), (124, 46695), (129, 46620), (130, 46617),

Gene: Smooch_6 Start: 2139, Stop: 1576, Start Num: 64

Candidate Starts for Smooch_6:

(Start: 64 @2139 has 6 MA's), (83, 2022), (86, 2007), (91, 1956), (92, 1953), (107, 1845), (110, 1836), (122, 1707), (123, 1704), (131, 1629), (135, 1593),

Gene: Sparxx_79 Start: 46747, Stop: 46160, Start Num: 40

Candidate Starts for Sparxx_79:

(Start: 11 @46894 has 46 MA's), (27, 46816), (Start: 31 @46795 has 6 MA's), (Start: 40 @46747 has 28 MA's), (Start: 41 @46744 has 86 MA's), (63, 46639), (71, 46567), (76, 46549), (103, 46483), (122, 46318), (123, 46315), (128, 46228), (131, 46207),

Gene: Spino_77 Start: 46748, Stop: 46164, Start Num: 41

Candidate Starts for Spino_77:

(Start: 11 @46898 has 46 MA's), (27, 46820), (Start: 31 @46799 has 6 MA's), (Start: 40 @46751 has 28 MA's), (Start: 41 @46748 has 86 MA's), (63, 46643), (71, 46571), (76, 46553), (103, 46487), (122, 46322), (123, 46319), (128, 46232), (131, 46211),

Gene: Spouty_82 Start: 46692, Stop: 46045, Start Num: 11

Candidate Starts for Spouty_82:

(Start: 11 @46692 has 46 MA's), (Start: 16 @46668 has 5 MA's), (27, 46614), (Start: 29 @46611 has 13 MA's), (37, 46560), (106, 46353), (111, 46332), (115, 46284), (122, 46206), (123, 46203), (128, 46116),

Gene: Stasia_75 Start: 46708, Stop: 46121, Start Num: 40

Candidate Starts for Stasia_75:

(Start: 11 @46855 has 46 MA's), (27, 46777), (Start: 31 @46756 has 6 MA's), (Start: 40 @46708 has 28 MA's), (Start: 41 @46705 has 86 MA's), (63, 46600), (71, 46528), (76, 46510), (103, 46444), (122, 46279), (123, 46276), (128, 46189), (131, 46168), (134, 46132),

Gene: SteMason_74 Start: 46745, Stop: 46161, Start Num: 41

Candidate Starts for SteMason_74:

(Start: 11 @46895 has 46 MA's), (27, 46817), (Start: 31 @46796 has 6 MA's), (Start: 40 @46748 has 28 MA's), (Start: 41 @46745 has 86 MA's), (63, 46640), (71, 46568), (72, 46562), (76, 46550), (103, 46484), (117, 46379), (122, 46319), (123, 46316), (128, 46229), (131, 46208),

Gene: Steamy_76 Start: 47037, Stop: 46378, Start Num: 11

Candidate Starts for Steamy_76:

(Start: 11 @47037 has 46 MA's), (Start: 16 @47013 has 5 MA's), (Start: 29 @46956 has 13 MA's), (111, 46674), (122, 46548), (123, 46545), (124, 46524), (129, 46452), (133, 46410),

Gene: Stink_78 Start: 46793, Stop: 46299, Start Num: 62

Candidate Starts for Stink_78:

(Start: 11 @47030 has 46 MA's), (27, 46952), (Start: 31 @46931 has 6 MA's), (37, 46898), (Start: 41 @46880 has 86 MA's), (57, 46811), (60, 46805), (Start: 62 @46793 has 2 MA's), (103, 46622), (122, 46457), (123, 46454), (128, 46367), (131, 46346), (134, 46310),

Gene: StuartMinion_35 Start: 24235, Stop: 25020, Start Num: 8

Candidate Starts for StuartMinion_35:

(Start: 8 @24235 has 13 MA's), (13, 24274), (19, 24301), (27, 24352), (30, 24367), (33, 24388), (35, 24400), (39, 24418), (55, 24430), (69, 24526), (95, 24625), (98, 24676), (111, 24745), (116, 24796), (121, 24844), (122, 24871), (123, 24874), (132, 24958), (134, 24991), (137, 25003),

Gene: Sultana_78 Start: 46748, Stop: 46161, Start Num: 40

Candidate Starts for Sultana_78:

(Start: 11 @46895 has 46 MA's), (27, 46817), (Start: 31 @46796 has 6 MA's), (Start: 40 @46748 has 28 MA's), (Start: 41 @46745 has 86 MA's), (63, 46640), (71, 46568), (76, 46550), (103, 46484), (117, 46379), (122, 46319), (123, 46316), (128, 46229), (131, 46208),

Gene: Taquarus_77 Start: 46751, Stop: 46167, Start Num: 41

Candidate Starts for Taquarus_77:

(Start: 11 @46901 has 46 MA's), (27, 46823), (Start: 31 @46802 has 6 MA's), (Start: 40 @46754 has 28 MA's), (Start: 41 @46751 has 86 MA's), (63, 46646), (71, 46574), (76, 46556), (103, 46490), (122, 46325), (123, 46322), (128, 46235), (131, 46214),

Gene: Temprado_91 Start: 47580, Stop: 47029, Start Num: 31

Candidate Starts for Temprado_91:

(Start: 11 @47679 has 46 MA's), (Start: 16 @47655 has 5 MA's), (27, 47601), (Start: 29 @47598 has 13 MA's), (Start: 31 @47580 has 6 MA's), (114, 47274), (122, 47193), (123, 47190), (124, 47169), (129, 47094), (130, 47091),

Gene: Thanksgivukkah_77 Start: 46896, Stop: 46162, Start Num: 11

Candidate Starts for Thanksgivukkah_77:

(Start: 11 @46896 has 46 MA's), (27, 46818), (Start: 31 @46797 has 6 MA's), (Start: 40 @46749 has 28 MA's), (Start: 41 @46746 has 86 MA's), (63, 46641), (71, 46569), (76, 46551), (103, 46485), (117, 46380), (122, 46320), (123, 46317), (128, 46230), (131, 46209),

Gene: TinaFeyge_76 Start: 46893, Stop: 46159, Start Num: 11

Candidate Starts for TinaFeyge_76:

(Start: 11 @46893 has 46 MA's), (27, 46815), (Start: 31 @46794 has 6 MA's), (Start: 40 @46746 has 28 MA's), (Start: 41 @46743 has 86 MA's), (63, 46638), (71, 46566), (76, 46548), (103, 46482), (122, 46317), (123, 46314), (128, 46227), (131, 46206),

Gene: Tinybot_77 Start: 46778, Stop: 46191, Start Num: 40

Candidate Starts for Tinybot_77:

(Start: 11 @46925 has 46 MA's), (27, 46847), (Start: 31 @46826 has 6 MA's), (Start: 40 @46778 has 28 MA's), (Start: 41 @46775 has 86 MA's), (63, 46670), (71, 46598), (76, 46580), (103, 46514), (117, 46409), (122, 46349), (123, 46346), (128, 46259), (131, 46238),

Gene: TiroTheta9_77 Start: 46742, Stop: 46158, Start Num: 41

Candidate Starts for TiroTheta9_77:

(Start: 11 @46892 has 46 MA's), (27, 46814), (Start: 31 @46793 has 6 MA's), (Start: 40 @46745 has 28 MA's), (Start: 41 @46742 has 86 MA's), (63, 46637), (71, 46565), (76, 46547), (103, 46481), (122, 46316), (123, 46313), (128, 46226), (131, 46205),

Gene: Toaka_82 Start: 46732, Stop: 46166, Start Num: 29

Candidate Starts for Toaka_82:

(Start: 11 @46813 has 46 MA's), (Start: 16 @46789 has 5 MA's), (Start: 29 @46732 has 13 MA's), (106, 46474), (111, 46453), (115, 46405), (122, 46327), (123, 46324), (128, 46237),

Gene: ToneTone_87 Start: 47116, Stop: 46580, Start Num: 32

Candidate Starts for ToneTone_87:

(Start: 11 @47227 has 46 MA's), (Start: 16 @47203 has 5 MA's), (27, 47149), (Start: 29 @47146 has 13 MA's), (Start: 32 @47116 has 4 MA's), (114, 46822), (122, 46741), (123, 46738), (129, 46645), (130, 46642),

Gene: TroyPia_79 Start: 46786, Stop: 46199, Start Num: 40

Candidate Starts for TroyPia_79:

(Start: 11 @46933 has 46 MA's), (27, 46855), (Start: 31 @46834 has 6 MA's), (Start: 40 @46786 has 28 MA's), (Start: 41 @46783 has 86 MA's), (63, 46678), (71, 46606), (76, 46588), (103, 46522), (122, 46357), (123, 46354), (128, 46267), (131, 46246),

Gene: Tucker_90 Start: 47319, Stop: 46783, Start Num: 32

Candidate Starts for Tucker_90:

(Start: 11 @47430 has 46 MA's), (Start: 16 @47406 has 5 MA's), (27, 47352), (Start: 29 @47349 has 13 MA's), (Start: 32 @47319 has 4 MA's), (114, 47025), (122, 46944), (123, 46941), (129, 46848), (130, 46845),

Gene: TygerBlood_78 Start: 46751, Stop: 46164, Start Num: 40

Candidate Starts for TygerBlood_78:

(Start: 11 @46898 has 46 MA's), (27, 46820), (Start: 31 @46799 has 6 MA's), (Start: 40 @46751 has 28 MA's), (Start: 41 @46748 has 86 MA's), (63, 46643), (71, 46571), (76, 46553), (103, 46487), (117, 46382), (122, 46322), (123, 46319), (128, 46232), (131, 46211),

Gene: Ulysses_77 Start: 46431, Stop: 45847, Start Num: 41

Candidate Starts for Ulysses_77:

(Start: 11 @46581 has 46 MA's), (27, 46503), (Start: 31 @46482 has 6 MA's), (Start: 40 @46434 has 28 MA's), (Start: 41 @46431 has 86 MA's), (63, 46326), (71, 46254), (76, 46236), (103, 46170), (122, 46005), (123, 46002), (128, 45915), (131, 45894),

Gene: Upyo_53 Start: 39312, Stop: 38611, Start Num: 34

Candidate Starts for Upyo_53:

(1, 39840), (2, 39783), (4, 39687), (6, 39534), (9, 39492), (10, 39477), (12, 39459), (20, 39423), (26, 39381), (Start: 34 @39312 has 1 MA's), (36, 39306), (44, 39270), (61, 39198), (67, 39132), (99, 38925), (105, 38898), (107, 38889), (119, 38799), (122, 38748), (123, 38745), (131, 38667), (133, 38640),

Gene: Vanisoa_79 Start: 47062, Stop: 46496, Start Num: 29

Candidate Starts for Vanisoa_79:

(Start: 11 @47143 has 46 MA's), (Start: 16 @47119 has 5 MA's), (27, 47065), (Start: 29 @47062 has 13 MA's), (106, 46804), (111, 46783), (122, 46657), (123, 46654), (128, 46567),

Gene: WalterMcMickey_77 Start: 46600, Stop: 46046, Start Num: 29

Candidate Starts for WalterMcMickey_77:

(Start: 11 @46681 has 46 MA's), (Start: 16 @46657 has 5 MA's), (Start: 29 @46600 has 13 MA's), (37, 46549), (71, 46465), (115, 46276), (122, 46198), (123, 46195), (125, 46162), (129, 46108),

Gene: Wander_78 Start: 46742, Stop: 46158, Start Num: 41

Candidate Starts for Wander_78:

(Start: 11 @46892 has 46 MA's), (27, 46814), (Start: 31 @46793 has 6 MA's), (Start: 40 @46745 has 28 MA's), (Start: 41 @46742 has 86 MA's), (63, 46637), (71, 46565), (76, 46547), (103, 46481), (117, 46376), (122, 46316), (123, 46313), (128, 46226), (131, 46205),

Gene: Wiks_89 Start: 47310, Stop: 46660, Start Num: 11

Candidate Starts for Wiks_89:

(Start: 11 @47310 has 46 MA's), (Start: 16 @47286 has 5 MA's), (27, 47232), (Start: 29 @47229 has 13 MA's), (Start: 31 @47211 has 6 MA's), (114, 46905), (122, 46824), (123, 46821), (124, 46800), (129, 46725), (130, 46722),

Gene: Wilbur_78 Start: 46745, Stop: 46161, Start Num: 41

Candidate Starts for Wilbur_78:

(Start: 11 @46895 has 46 MA's), (27, 46817), (Start: 31 @46796 has 6 MA's), (Start: 40 @46748 has 28 MA's), (Start: 41 @46745 has 86 MA's), (63, 46640), (71, 46568), (72, 46562), (76, 46550), (103, 46484), (117, 46379), (122, 46319), (123, 46316), (128, 46229), (131, 46208),

Gene: Wile_74 Start: 46560, Stop: 45988, Start Num: 43

Candidate Starts for Wile_74:

(Start: 11 @46722 has 46 MA's), (27, 46644), (Start: 31 @46623 has 6 MA's), (Start: 40 @46575 has 28 MA's), (Start: 41 @46572 has 86 MA's), (Start: 43 @46560 has 4 MA's), (63, 46467), (71, 46395), (76, 46377), (103, 46311), (117, 46206), (122, 46146), (123, 46143), (128, 46056), (131, 46035), (134, 45999),

Gene: WileyE_46 Start: 27783, Stop: 28385, Start Num: 51

Candidate Starts for WileyE_46:

(Start: 8 @27504 has 13 MA's), (21, 27585), (27, 27621), (35, 27669), (Start: 51 @27783 has 2 MA's), (94, 27996), (95, 28002), (96, 28005), (100, 28068), (116, 28170), (122, 28245), (123, 28248), (134, 28365),

Gene: Winget_5 Start: 1850, Stop: 1287, Start Num: 64

Candidate Starts for Winget_5:

(Start: 64 @1850 has 6 MA's), (83, 1733), (86, 1718), (91, 1667), (92, 1664), (107, 1556), (110, 1547), (122, 1418), (123, 1415), (126, 1379), (131, 1340), (135, 1304),

Gene: Wizard007_75 Start: 46286, Stop: 45714, Start Num: 43

Candidate Starts for Wizard007_75:

(Start: 11 @46448 has 46 MA's), (27, 46370), (Start: 31 @46349 has 6 MA's), (Start: 40 @46301 has 28 MA's), (Start: 41 @46298 has 86 MA's), (Start: 43 @46286 has 4 MA's), (63, 46193), (71, 46121), (76, 46103), (103, 46037), (117, 45932), (122, 45872), (123, 45869), (128, 45782), (131, 45761), (134, 45725),

Gene: Xena_74 Start: 46567, Stop: 45983, Start Num: 41

Candidate Starts for Xena_74:

(Start: 11 @46717 has 46 MA's), (27, 46639), (Start: 31 @46618 has 6 MA's), (Start: 40 @46570 has 28 MA's), (Start: 41 @46567 has 86 MA's), (63, 46462), (71, 46390), (76, 46372), (103, 46306), (117, 46201), (122, 46141), (123, 46138), (128, 46051), (131, 46030),

Gene: Yecey3_85 Start: 46628, Stop: 46062, Start Num: 29

Candidate Starts for Yecey3_85:

(Start: 11 @46709 has 46 MA's), (Start: 16 @46685 has 5 MA's), (Start: 29 @46628 has 13 MA's), (111, 46349), (122, 46223), (123, 46220), (134, 46076),

Gene: YoSam321_78 Start: 46746, Stop: 46159, Start Num: 40

Candidate Starts for YoSam321_78:

(Start: 11 @46893 has 46 MA's), (27, 46815), (Start: 31 @46794 has 6 MA's), (Start: 40 @46746 has 28 MA's), (Start: 41 @46743 has 86 MA's), (63, 46638), (71, 46566), (76, 46548), (103, 46482), (122, 46317), (123, 46314), (128, 46227), (131, 46206),

Gene: Yokurt_89 Start: 47211, Stop: 46660, Start Num: 31

Candidate Starts for Yokurt_89:

(Start: 11 @47310 has 46 MA's), (Start: 16 @47286 has 5 MA's), (27, 47232), (Start: 29 @47229 has 13 MA's), (Start: 31 @47211 has 6 MA's), (114, 46905), (122, 46824), (123, 46821), (124, 46800), (129, 46725), (130, 46722),

Gene: YungJamal_6 Start: 2139, Stop: 1576, Start Num: 64

Candidate Starts for YungJamal_6:

(Start: 64 @2139 has 6 MA's), (83, 2022), (86, 2007), (91, 1956), (92, 1953), (107, 1845), (110, 1836), (122, 1707), (123, 1704), (131, 1629), (135, 1593),

Gene: Zaka_90 Start: 47310, Stop: 46660, Start Num: 11

Candidate Starts for Zaka_90:

(Start: 11 @47310 has 46 MA's), (Start: 16 @47286 has 5 MA's), (27, 47232), (Start: 29 @47229 has 13 MA's), (Start: 31 @47211 has 6 MA's), (114, 46905), (122, 46824), (123, 46821), (124, 46800), (129, 46725), (130, 46722),

Gene: Zhuangyuan_48 Start: 27978, Stop: 28547, Start Num: 8

Candidate Starts for Zhuangyuan_48:

(Start: 8 @27978 has 13 MA's), (Start: 18 @28038 has 1 MA's), (19, 28044), (Start: 29 @28098 has 13 MA's), (30, 28110), (35, 28143), (39, 28161), (94, 28263), (95, 28269), (122, 28395), (123, 28398), (132, 28482), (134, 28515),

Gene: Zimmer_80 Start: 47793, Stop: 47140, Start Num: 11

Candidate Starts for Zimmer_80:

(Start: 11 @47793 has 46 MA's), (Start: 16 @47769 has 5 MA's), (Start: 29 @47712 has 13 MA's), (106, 47451), (112, 47427), (122, 47304), (123, 47301), (129, 47208), (130, 47205), (133, 47166),