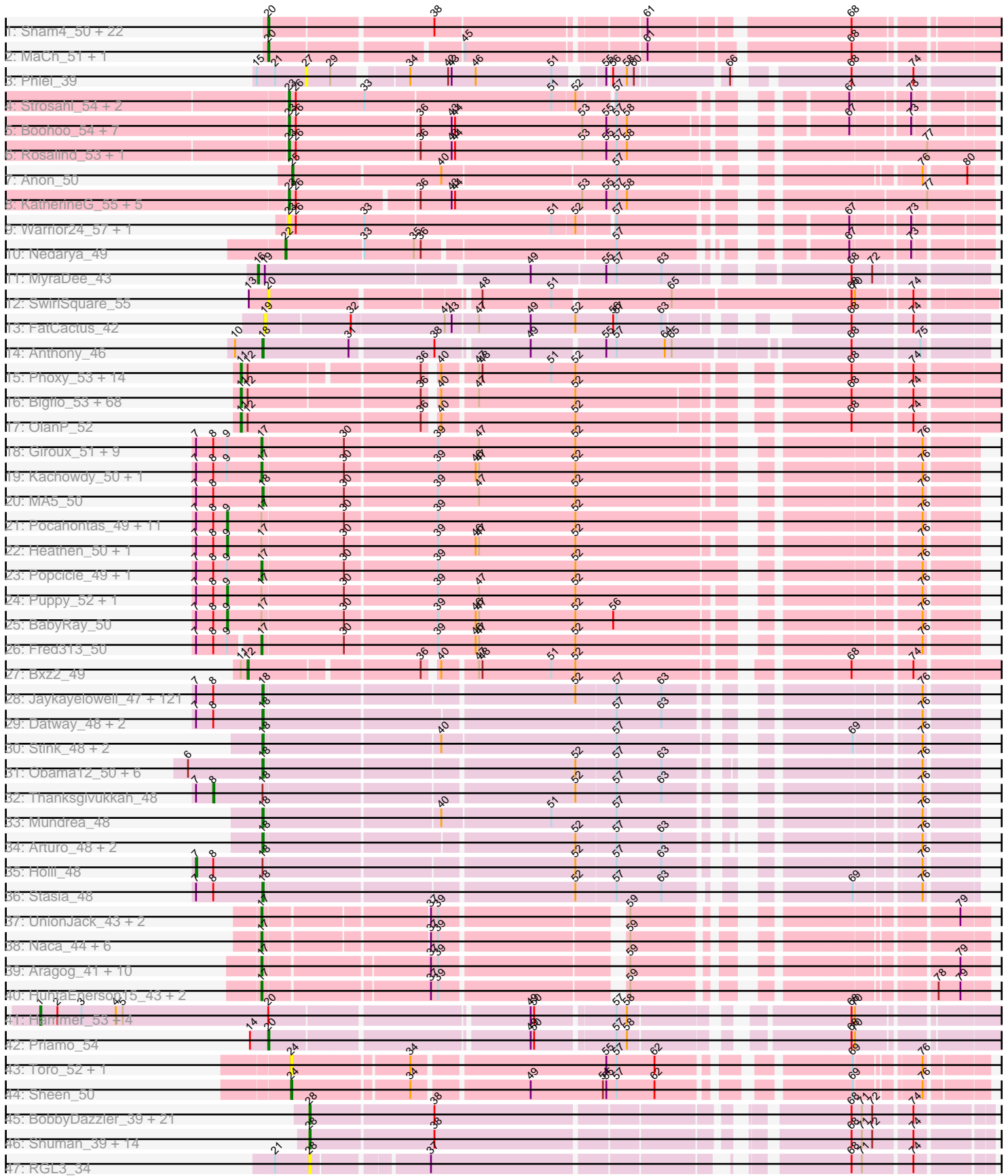


Pham 224180



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 224180 Report

This analysis was run 03/28/25 on database version 593.

Pham number 224180 has 385 members, 30 are drafts.

Phages represented in each track:

- Track 1 : Sham4_50, Orange_50, Snape_50, Mabel_50, TinyTimmy_50, Jabith_51, Et2Brutus_49, Fibonacci_50, Bud_50, Mulciber_50, Insomnia_51, Flaverint_51, Petersenfast_49, Bowtie_51, Timothy_50, Joselito_51, Hutc2_50, Ebony_50, Munch_51, Gilberta_51, Salz_49, Aneem_51, Lucivia_51
- Track 2 : MaCh_51, Bachome_52
- Track 3 : Phlei_39
- Track 4 : Strosahl_54, Waits_54, Remus_54
- Track 5 : Boohoo_54, LastResort_53, JSwag_53, Nebulosus_53, Looper_54, ReMo_53, Epsocamisio_52, Anaysia_54
- Track 6 : Rosalind_53, ShayRa_55
- Track 7 : Anon_50
- Track 8 : KatherineG_55, MinecraftSteve_55, Soups_55, DekHockey33_54, Switzerland_54, Battleship_56
- Track 9 : Warrior24_57, Oofda_55
- Track 10 : Nedarya_49
- Track 11 : MyraDee_43
- Track 12 : SwirlSquare_55
- Track 13 : FatCactus_42
- Track 14 : Anthony_46
- Track 15 : Phoxy_53, Spike509_53, Methuselah_49, BuzzBuzz_51, LarryKay_53, Daishi_52, TinyPebbles_52, KADY_53, HashRod_54, Misomonster_54, Farber_53, AgronaGT15_52, Rummer_52, Louie6_52, Soshari_55
- Track 16 : Bigflo_53, Malinsilva_55, Hercules11_53, Wooldri_55, SoilDragon_53, Fernando_53, Sabia_53, Lilith_54, Watson_53, Snickers_53, Grub_53, Beauxregard13_53, Anubis_56, LugYA_56, PotatoSplit_55, Ollie_53, Zetzy_52, P28Green_54, Phranny_54, Reba_53, Kalb97_54, Vix_53, SoYo_53, DaHudson_53, MadMarie_53, StepMih_53, Tiffany_53, BreSam8_53, MoneyMay_53, Manu_53, Calvinny_53, PGHhamlin_55, HaveUMetTed_54, Marie_53, Sabinator_52, MuchMore_56, Marius_54, Phoebe_54, Dieselweasel_54, Microwolf_53, Heliosoles_52, Taurus_54, JHC117_53, Penny1_54, Grif_53, Colbster_53, PurpleHaze_53, PhishRPhriends_51, EpicPhail_54, JeppNRM_54, MarQuardt_53, Pembroke_53, Aglet_54, Jobu08_52, GingkoMaracino_53, Grum1_53, ACFishhook_52, AugsMagnumOpus_56, Kalnoky_54, Groupthink_54, LBerry_54, Pawn_53, Gemma_52, GtownJaz_53, Stagni_53, JenCasNa_54, Mainiac_53, Lowa_53, Cullens_53
- Track 17 : OlanP_52

- Track 18 : Giroux_51, SaturnRing_51, DropBear_50, Chiqui_48, Pistachio_52, TNguyen7_51, BabyJohn_48, Bugatti_51, Marchesa_50, BlueBird_52
- Track 19 : Kachowdy_50, HelDan_50
- Track 20 : MA5_50
- Track 21 : Pocahontas_49, Noella_49, Margo_49, QuinnKiro_48, Norbert_48, Veracruz_48, Lambert1_49, Caviar_49, Hookmount_49, ResDef_49, Todacoro_49, Texage_48
- Track 22 : Heathen_50, Scout_50
- Track 23 : Popcicle_49, Panamaxus_47
- Track 24 : Puppy_52, Idleandcovert_51
- Track 25 : BabyRay_50
- Track 26 : Fred313_50
- Track 27 : Bxz2_49
- Track 28 : Jaykayelowell_47, Relief_48, Morpher26_48, Cici_48, HamSlice_48, Deano_48, TroyPia_50, Wander_49, Blackmoor_49, Clarenza_48, Shaka_49, Annyong_49, Eurydice_50, Houdini22_49, Xena_47, Baby16_49, Tinybot_48, Huxley_49, LappelDuVide_49, Broseidon_49, Cocoaberry_49, Koreni_48, Perplexer_48, Gadost_49, Avle17_49, NotAPhaseMom_49, Cindaradix_46, BellusTerra_50, Lemur_49, Bruiser_48, JetBlade_49, Iceman_49, DirtyDunning_48, Achebe_47, Ohfah_50, Pumbaa_49, Badger_47, BubbleTrouble_48, Kingmustik0402_49, TinaFeyge_49, Kremtemulon_49, Florean_49, LeoAvram_49, Nemo27_49, PeterPeter_49, Roosevelt_48, MeeZee_49, Spino_48, Bombshell_49, Pipcraft_47, Dhanush_49, Polymorphads_50, Ruin_49, NorthStar_48, Nebs_50, Rosa24_48, Connomayer_49, Alberto7_50, Bumblebee11_47, KFPoly_48, Lunsford_50, Morrow_50, Romney_49, Chaph_49, Camperdownii_47, Scamp_49, AbbysRanger_48, Backyardigan_47, Iracema64_50, Koan_47, Peaches_49, Maxo_50, Eros_49, LittleGuy_49, Eapen_49, CentreCat_49, Citius_49, PetiteSangsue_48, Sparxx_50, Phontbonne_49, Palestino_48, Kampy_49, Kyee_49, Funston_48, Nyxis_49, Caelakin_49, LochMonster_50, OKaNui_49, ICleared_49, Melvin_51, Wilbur_49, Katalie136_48, SeniorClean_47, Ulysses_48, Mazhar510_49, JoongJeon_48, Mayonnaise_49, TygerBlood_49, Millski_48, Phelipe_50, LittleB_49, Medusa_49, Phacado_49, Druantia_49, Sabertooth_49, Wizard007_49, Skipitt_48, Bartimeaus_49, Burger_47, Albee_49, Wile_48, Flux_49, Cintron_48, Abdiel_49, Eris_48, Maverick_49, Eagle_49, Commander_49, Lorenzo_49, TiroTheta9_49, Taquarus_49, YoSam321_49
- Track 29 : Datway_48, Noelle_49, Shygu2_48
- Track 30 : Stink_48, AvatarAhPeg_47, Miramae_47
- Track 31 : Obama12_50, LHTSCC_51, BangNhom_50, Cerulean_50, Happiness_48, ChampagnePapi_51, SheldonCooper_51
- Track 32 : Thanksgivukkah_48
- Track 33 : Mundrea_48
- Track 34 : Arturo_48, Kratak_49, Phighter1804_49
- Track 35 : Holli_48
- Track 36 : Stasia_48
- Track 37 : UnionJack_43, Jabiru_43, PickleBack_42
- Track 38 : Naca_44, EITiger69_44, Airmid_43, PetterN_46, Scorpia_46, Chadwick_46, Benedict_45
- Track 39 : Aragog_41, Prinash11_43, Discoknowium_41, Milcery_43, Tarynearal_41, George_42, Micasa_44, Phlorence_41, Cuco_42, Archetta_42, Swirley_45
- Track 40 : HuhtaEnerson15_43, LittleCherry_43, Bonamassa_43
- Track 41 : Hammer_53, Blue7_54, Artemis2UCLA_52, Gladiator_50, BlessJoy_53
- Track 42 : Priamo_54

- Track 43 : Toro_52, FlyCatcher_54
- Track 44 : Sheen_50
- Track 45 : BobbyDazzler_39, PhailMary_38, Bradshaw_39, Partridge_39, Yogi_39, Lillie_39, StCroix_39, RexFury_39, Rhodalysa_39, Krishelle_39, Rasputin_39, Naiad_39, Gollum_39, RER2_32, Swann_39, CosmicSans_39, Hiro_39, TWAMP_39, Phrankenstien_39, Alpacados_38, Bonanza_39, Alatin_39
- Track 46 : Shuman_39, AppleCloud_37, Bryce_39, Natosaleda_39, Erik_39, Nancinator_39, Jester_39, Espica_39, Belenaria_39, UhSalsa_39, Harlequin_39, Takoda_39, Yoncess_39, Dinger_39, AngryOrchard_37
- Track 47 : RGL3_34

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

The start number called the most often in the published annotations is 18, it was called in 137 of the 355 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AbbysRanger_48, Abdiel_49, Achebe_47, Albee_49, Alberto7_50, Annyong_49, Anthony_46, Arturo_48, AvatarAhPeg_47, Avle17_49, Baby16_49, Backyardigan_47, Badger_47, BangNhom_50, Bartimeaus_49, BellusTerra_50, Blackmoor_49, Bombshell_49, Broseidon_49, Bruiser_48, BubbleTrouble_48, Bumblebee11_47, Burger_47, Caelakin_49, Camperdownii_47, CentreCat_49, Cerulean_50, ChampagnePapi_51, Chaph_49, Cici_48, Cindaradix_46, Cintron_48, Citius_49, Clarenza_48, Cocoaberry_49, Commander_49, Connomayer_49, Datway_48, Deano_48, Dhanush_49, DirtyDunning_48, Druantia_49, Eagle_49, Eapen_49, Eris_48, Eros_49, Eurydice_50, Floean_49, Flux_49, Funston_48, Gadost_49, HamSlice_48, Happiness_48, Houdini22_49, Huxley_49, ICleared_49, Iceman_49, Iracema64_50, Jaykayelowell_47, JetBlade_49, JoongJeon_48, KFPoly_48, Kampy_49, Katalie136_48, Kingmustik0402_49, Koan_47, Koreni_48, Kratak_49, Kremtemulon_49, Kyee_49, LHTSCC_51, LappelDuVide_49, Lemur_49, LeoAvram_49, LittleB_49, LittleGuy_49, LochMonster_50, Lorenzo_49, Lunsford_50, MA5_50, Maverick_49, Maxo_50, Mayonnaise_49, Mazhar510_49, Medusa_49, MeeZee_49, Melvin_51, Millski_48, Miramae_47, Morpher26_48, Morrow_50, Mundrea_48, Nebs_50, Nemo27_49, Noelle_49, NorthStar_48, NotAPhaseMom_49, Nyxis_49, OKaNui_49, Obama12_50, Ohfah_50, Palestino_48, Peaches_49, Perplexer_48, PeterPeter_49, PetiteSangsue_48, Phacado_49, Phelipe_50, Phighter1804_49, Phontbonne_49, Pipcraft_47, Polymorphads_50, Pumbaa_49, Relief_48, Romney_49, Roosevelt_48, Rosa24_48, Ruin_49, Sabertooth_49, Scamp_49, SeniorClean_47, Shaka_49, SheldonCooper_51, Shygu2_48, Skipitt_48, Sparxx_50, Spino_48, Stasia_48, Stink_48, Taquarus_49, TinaFeyge_49, Tinybot_48, TiroTheta9_49, TroyPia_50, TygerBlood_49, Ulysses_48, Wander_49, Wilbur_49, Wile_48, Wizard007_49, Xena_47, YoSam321_49,

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

- Holli_48, Thanksgivukkah_48,

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

- ACFishhook_52, Aglet_54, AgronaGT15_52, Airmid_43, Alatin_39, Alpacados_38, Anaysia_54, Aneem_51, AngryOrchard_37, Anon_50, Anubis_56, AppleCloud_37, Aragog_41, Archetta_42, Artemis2UCLA_52, AugsMagnumOpus_56, BabyJohn_48,

BabyRay_50, Bachome_52, Battleship_56, Beauxregard13_53, Belenaria_39, Benedict_45, Bigflo_53, BlessJoy_53, Blue7_54, BlueBird_52, BobbyDazzler_39, Bonamassa_43, Bonanza_39, Boohoo_54, Bowtie_51, Bradshaw_39, BreSam8_53, Bryce_39, Bud_50, Bugatti_51, BuzzBuzz_51, Bxz2_49, Calvinny_53, Caviar_49, Chadwick_46, Chiqui_48, Colbster_53, CosmicSans_39, Cuco_42, Cullens_53, DaHudson_53, Daishi_52, DekHockey33_54, Dieselweasel_54, Dinger_39, Discoknowium_41, DropBear_50, Ebony_50, ElTiger69_44, EpicPhail_54, Epsocamisio_52, Erik_39, Espica_39, Et2Brutus_49, Farber_53, FatCactus_42, Fernando_53, Fibonacci_50, Flaverint_51, FlyCatcher_54, Fred313_50, Gemma_52, George_42, Gilberta_51, GingkoMaracino_53, Giroux_51, Gladiator_50, Gollum_39, Grif_53, Groupthink_54, Grub_53, Grum1_53, GtownJaz_53, Hammer_53, Harlequin_39, HashRod_54, HaveUMetTed_54, Heathen_50, HelDan_50, Heliosoles_52, Hercules11_53, Hiro_39, Hookmount_49, HuhtaEnerson15_43, Hutc2_50, Idleandcovert_51, Insomnia_51, JHC117_53, JSwag_53, Jabiru_43, Jabith_51, JenCasNa_54, JeppNRM_54, Jester_39, Jobu08_52, Joselito_51, KADY_53, Kachowdy_50, Kalb97_54, Kalnoky_54, KatherineG_55, Krishelle_39, LBerry_54, Lambert1_49, LarryKay_53, LastResort_53, Lilith_54, Lillie_39, LittleCherry_43, Looper_54, Louie6_52, Iowa_53, Lucivia_51, LugYA_56, MaCh_51, Mabel_50, MadMarie_53, Mainiac_53, Malinsilva_55, Manu_53, MarQuardt_53, Marchesa_50, Margo_49, Marie_53, Marius_54, Methuselah_49, Micasa_44, Microwolf_53, Milcery_43, MinecraftSteve_55, Misomonster_54, MoneyMay_53, MuchMore_56, Mulciber_50, Munch_51, MyraDee_43, Naca_44, Naiad_39, Nancinator_39, Natosaleda_39, Nebulosus_53, Nedarya_49, Noella_49, Norbert_48, OlanP_52, Ollie_53, Oofda_55, Orange_50, P28Green_54, PGHhamlin_55, Panamaxus_47, Partridge_39, Pawn_53, Pembroke_53, Penny1_54, Petersenfast_49, PetterN_46, PhailMary_38, PhishRPhriends_51, Phlei_39, Phlorence_41, Phoebe_54, Phoxy_53, Phrankenstein_39, Phranny_54, PickleBack_42, Pistachio_52, Pocahontas_49, Popcicle_49, PotatoSplit_55, Priamo_54, Prinash11_43, Puppy_52, PurpleHaze_53, QuinnKiro_48, RER2_32, RGL3_34, Rasputin_39, ReMo_53, Reba_53, Remus_54, ResDef_49, RexFury_39, Rhodalysa_39, Rosalind_53, Rummer_52, Sabia_53, Sabinator_52, Salz_49, SaturnRing_51, Scorpia_46, Scout_50, Sham4_50, ShayRa_55, Sheen_50, Shuman_39, Snape_50, Snickers_53, SoYo_53, SoilDragon_53, Soshari_55, Soups_55, Spike509_53, StCroix_39, Stagni_53, StepMih_53, Strosahl_54, Swann_39, SwirlSquare_55, Swirley_45, Switzerland_54, TNguyen7_51, TWAMP_39, Takoda_39, Tarynearal_41, Taurus_54, Texage_48, Tiffany_53, Timothy_50, TinyPebbles_52, TinyTimmy_50, Todacoro_49, Toro_52, UhSalsa_39, UnionJack_43, Veracruz_48, Vix_53, Waits_54, Warrior24_57, Watson_53, Wooldri_55, Yogi_39, Yoncess_39, Zetzy_52,

Summary by start number:

Start 1:

- Found in 5 of 385 (1.3%) of genes in pham
- Manual Annotations of this start: 4 of 355
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Artemis2UCLA_52 (A6), BlessJoy_53 (A6), Blue7_54 (A6), Gladiator_50 (A6), Hammer_53 (A6),

Start 7:

- Found in 161 of 385 (41.8%) of genes in pham
- Manual Annotations of this start: 1 of 355
- Called 0.6% of time when present

- Phage (with cluster) where this start called: Holli_48 (A4),

Start 8:

- Found in 161 of 385 (41.8%) of genes in pham
- Manual Annotations of this start: 1 of 355
- Called 0.6% of time when present
- Phage (with cluster) where this start called: Thanksgivukkah_48 (A4),

Start 9:

- Found in 32 of 385 (8.3%) of genes in pham
- Manual Annotations of this start: 17 of 355
- Called 53.1% of time when present
- Phage (with cluster) where this start called: BabyRay_50 (A3), Caviar_49 (A3), Heathen_50 (A3), Hookmount_49 (A3), Idleandcovert_51 (A3), Lambert1_49 (A3), Margo_49 (A3), Noella_49 (A3), Norbert_48 (A3), Pocahontas_49 (A3), Puppy_52 (A3), QuinnKiro_48 (A3), ResDef_49 (A3), Scout_50 (A3), Texage_48 (A3), Todacoro_49 (A3), Veracruz_48 (A3),

Start 11:

- Found in 86 of 385 (22.3%) of genes in pham
- Manual Annotations of this start: 80 of 355
- Called 98.8% of time when present
- Phage (with cluster) where this start called: ACFishhook_52 (A3), Aglet_54 (A3), AgronaGT15_52 (A3), Anubis_56 (A3), AugsMagnumOpus_56 (A3), Beauxregard13_53 (A3), Bigflo_53 (A3), BreSam8_53 (A3), BuzzBuzz_51 (A3), Calvinny_53 (A3), Colbster_53 (A3), Cullens_53 (A3), DaHudson_53 (A3), Daishi_52 (A3), Dieselweasel_54 (A3), EpicPhail_54 (A3), Farber_53 (A3), Fernando_53 (A3), Gemma_52 (A3), GingkoMaracino_53 (A3), Grif_53 (A3), Groupthink_54 (A3), Grub_53 (A3), Grum1_53 (A3), GtownJaz_53 (A3), HashRod_54 (A3), HaveUMetTed_54 (A3), Heliosoles_52 (A3), Hercules11_53 (A3), JHC117_53 (A3), JenCasNa_54 (A3), JeppNRM_54 (A3), Jobu08_52 (A3), KADY_53 (A3), Kalb97_54 (A3), Kalnoky_54 (A3), LBerry_54 (A3), LarryKay_53 (A3), Lilith_54 (A3), Louie6_52 (A3), Iowa_53 (A3), LugYA_56 (A3), MadMarie_53 (A3), Mainiac_53 (A3), Malinsilva_55 (A3), Manu_53 (A3), MarQuardt_53 (A3), Marie_53 (A3), Marius_54 (A3), Methuselah_49 (A3), Microwolf_53 (A3), Misomonster_54 (A3), MoneyMay_53 (A3), MuchMore_56 (A3), OlanP_52 (A3), Ollie_53 (A3), P28Green_54 (A3), PGHhamlin_55 (A3), Pawn_53 (A3), Pembroke_53 (A3), Penny1_54 (A3), PhishRPhriends_51 (A3), Phoebe_54 (A3), Phoxy_53 (A3), Phranny_54 (A3), PotatoSplit_55 (A3), PurpleHaze_53 (A3), Reba_53 (A3), Rummer_52 (A3), Sabia_53 (A3), Sabinator_52 (A3), Snickers_53 (A3), SoYo_53 (A3), SoilDragon_53 (A3), Soshari_55 (A3), Spike509_53 (A3), Stagni_53 (A3), StepMih_53 (A3), Taurus_54 (A3), Tiffany_53 (A3), TinyPebbles_52 (A3), Vix_53 (A3), Watson_53 (A3), Wooldri_55 (A3), Zetzy_52 (A3),

Start 12:

- Found in 86 of 385 (22.3%) of genes in pham
- Manual Annotations of this start: 1 of 355
- Called 1.2% of time when present
- Phage (with cluster) where this start called: Bxz2_49 (A3),

Start 16:

- Found in 1 of 385 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 355

- Called 100.0% of time when present
- Phage (with cluster) where this start called: MyraDee_43 (A18),

Start 17:

- Found in 56 of 385 (14.5%) of genes in pham
- Manual Annotations of this start: 30 of 355
- Called 69.6% of time when present
- Phage (with cluster) where this start called: Airmid_43 (A5), Aragog_41 (A5), Archetta_42 (A5), BabyJohn_48 (A3), Benedict_45 (A5), BlueBird_52 (A3), Bonamassa_43 (A5), Bugatti_51 (A3), Chadwick_46 (A5), Chiqui_48 (A3), Cuco_42 (A5), Discoknowium_41 (A5), DropBear_50 (A3), EITiger69_44 (A5), Fred313_50 (A3), George_42 (A5), Giroux_51 (A3), HelDan_50 (A3), HuhtaEnerson15_43 (A5), Jabiru_43 (A5), Kachowdy_50 (A3), LittleCherry_43 (A5), Marchesa_50 (A3), Micasa_44 (A5), Milcery_43 (A5), Naca_44 (A5), Panamaxus_47 (A3), PetterN_46 (A5), Phlorence_41 (A5), PickleBack_42 (A5), Pistachio_52 (A3), Popcicle_49 (A3), Prinash11_43 (A5), SaturnRing_51 (A3), Scorpia_46 (A5), Swirley_45 (A5), TNguyen7_51 (A3), Tarynearal_41 (A5), UnionJack_43 (A5),

Start 18:

- Found in 144 of 385 (37.4%) of genes in pham
- Manual Annotations of this start: 137 of 355
- Called 98.6% of time when present
- Phage (with cluster) where this start called: AbbysRanger_48 (A4), Abdiel_49 (A4), Achebe_47 (A4), Albee_49 (A4), Alberto7_50 (A4), Annyong_49 (A4), Anthony_46 (A20), Arturo_48 (A4), AvatarAhPeg_47 (A4), Avle17_49 (A4), Baby16_49 (A4), Backyardigan_47 (A4), Badger_47 (A4), BangNhom_50 (A4), Bartimeaus_49 (A4), BellusTerra_50 (A4), Blackmoor_49 (A4), Bombshell_49 (A4), Broseidon_49 (A4), Bruiser_48 (A4), BubbleTrouble_48 (A4), Bumblebee11_47 (A4), Burger_47 (A4), Caelakin_49 (A4), Camperdownii_47 (A4), CentreCat_49 (A4), Cerulean_50 (A4), ChampagnePapi_51 (A4), Chaph_49 (A4), Cici_48 (A4), Cindaradix_46 (A4), Cintron_48 (A4), Citius_49 (A4), Clarenza_48 (A4), Cocoaberry_49 (A4), Commander_49 (A4), Connomayer_49 (A4), Datway_48 (A4), Deano_48 (A4), Dhanush_49 (A4), DirtyDunning_48 (A4), Druantia_49 (A4), Eagle_49 (A4), Eapen_49 (A4), Eris_48 (A4), Eros_49 (A4), Eurydice_50 (A4), Florean_49 (A4), Flux_49 (A4), Funston_48 (A4), Gadost_49 (A4), HamSlice_48 (A4), Happiness_48 (A4), Houdini22_49 (A4), Huxley_49 (A4), ICleared_49 (A4), Iceman_49 (A4), Iracema64_50 (A4), Jaykayelowell_47 (A4), JetBlade_49 (A4), JoongJeon_48 (A4), KFPoly_48 (A4), Kamy_49 (A4), Katalie136_48 (A4), Kingmustik0402_49 (A4), Koan_47 (A4), Koreni_48 (A4), Kratark_49 (A4), Kremtemulon_49 (A4), Kyee_49 (A4), LHTSCC_51 (A4), LappelDuVide_49 (A4), Lemur_49 (A4), LeoAvram_49 (A4), LittleB_49 (A4), LittleGuy_49 (A4), LochMonster_50 (A4), Lorenzo_49 (A4), Lunsford_50 (A4), MA5_50 (A3), Maverick_49 (A4), Maxo_50 (A4), Mayonnaise_49 (A4), Mazhar510_49 (A4), Medusa_49 (A4), MeeZee_49 (A4), Melvin_51 (A4), Millski_48 (A4), Miramae_47 (A4), Morpher26_48 (A4), Morrow_50 (A4), Mundrea_48 (A4), Nebs_50 (A4), Nemo27_49 (A4), Noelle_49 (A4), NorthStar_48 (A4), NotAPhaseMom_49 (A4), Nyxis_49 (A4), OKaNui_49 (A4), Obama12_50 (A4), Ohfah_50 (A4), Palestino_48 (A4), Peaches_49 (A4), Perplexer_48 (A4), PeterPeter_49 (A4), PetiteSangsue_48 (A4), Phacado_49 (A4), Felipe_50 (A4), Phighter1804_49 (A4), Phontbonne_49 (A4), Pipcraft_47 (A4), Polymorphads_50 (A4), Pumbaa_49 (A4), Relief_48 (A4), Romney_49 (A4), Roosevelt_48 (A4), Rosa24_48 (A4), Ruin_49 (A4), Sabertooth_49 (A4), Scamp_49 (A4), SenorClean_47 (A4), Shaka_49 (A4), SheldonCooper_51 (A4), Shygu2_48 (A4), Skipitt_48 (A4), Sparxx_50 (A4), Spino_48 (A4), Stasia_48 (A4), Stink_48 (A4), Taquarus_49 (A4),

TinaFeyge_49 (A4), Tinybot_48 (A4), TiroTheta9_49 (A4), TroyPia_50 (A4), TygerBlood_49 (A4), Ulysses_48 (A4), Wander_49 (A4), Wilbur_49 (A4), Wile_48 (A4), Wizard007_49 (A4), Xena_47 (A4), YoSam321_49 (A4),

Start 19:

- Found in 2 of 385 (0.5%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: FatCactus_42 (A20),

Start 20:

- Found in 32 of 385 (8.3%) of genes in pham
- Manual Annotations of this start: 25 of 355
- Called 84.4% of time when present
- Phage (with cluster) where this start called: Aneem_51 (A11), Bachome_52 (A11), Bowtie_51 (A11), Bud_50 (A11), Ebony_50 (A11), Et2Brutus_49 (A11), Fibonacci_50 (A11), Flaverint_51 (A11), Gilberta_51 (A11), Hutc2_50 (A11), Insomnia_51 (A11), Jabith_51 (A11), Joselito_51 (A11), Lucivia_51 (A11), MaCh_51 (A11), Mabel_50 (A11), Mulciber_50 (A11), Munch_51 (A11), Orange_50 (A11), Petersenfast_49 (A11), Priamo_54 (A6), Salz_49 (A11), Sham4_50 (A11), Snape_50 (A11), SwirlSquare_55 (A2), Timothy_50 (A11), TinyTimmy_50 (A11),

Start 22:

- Found in 1 of 385 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 355
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Nedarya_49 (A15),

Start 23:

- Found in 21 of 385 (5.5%) of genes in pham
- Manual Annotations of this start: 19 of 355
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anaysia_54 (A15), Battleship_56 (A15), Boohoo_54 (A15), DekHockey33_54 (A15), Epsocamisio_52 (A15), JSwag_53 (A15), KatherineG_55 (A15), LastResort_53 (A15), Looper_54 (A15), MinecraftSteve_55 (A15), Nebulosus_53 (A15), Oofda_55 (A15), ReMo_53 (A15), Remus_54 (A15), Rosalind_53 (A15), ShayRa_55 (A15), Soups_55 (A15), Strosahl_54 (A15), Switzerland_54 (A15), Waits_54 (A15), Warrior24_57 (A15),

Start 24:

- Found in 3 of 385 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 355
- Called 100.0% of time when present
- Phage (with cluster) where this start called: FlyCatcher_54 (A7), Sheen_50 (A7), Toro_52 (A7),

Start 25:

- Found in 1 of 385 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 355
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anon_50 (A15),

Start 27:

- Found in 1 of 385 (0.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Phlei_39 (A13),

Start 28:

- Found in 38 of 385 (9.9%) of genes in pham
- Manual Annotations of this start: 36 of 355
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alatin_39 (CA), Alpacados_38 (CA), AngryOrchard_37 (CA), AppleCloud_37 (CA), Belenaria_39 (CA), BobbyDazzler_39 (CA), Bonanza_39 (CA), Bradshaw_39 (CA), Bryce_39 (CA), CosmicSans_39 (CA), Dinger_39 (CA), Erik_39 (CA), Espica_39 (CA), Gollum_39 (CA), Harlequin_39 (CA), Hiro_39 (CA), Jester_39 (CA), Krishelle_39 (CA), Lillie_39 (CA), Naiad_39 (CA), Nancinator_39 (CA), Natosaleda_39 (CA), Partridge_39 (CA), PhailMary_38 (CA), Phrankenstien_39 (CA), RER2_32 (CA), RGL3_34 (CA), Rasputin_39 (CA), RexFury_39 (CA), Rhodalysa_39 (CA), Shuman_39 (CA), StCroix_39 (CA), Swann_39 (CA), TWAMP_39 (CA), Takoda_39 (CA), UhSalsa_39 (CA), Yogi_39 (CA), Yoncess_39 (CA),

Summary by clusters:

There are 12 clusters represented in this pham: A15, A20, A11, A13, CA, A18, A3, A2, A5, A4, A7, A6,

Info for manual annotations of cluster A11:

- Start number 20 was manually annotated 24 times for cluster A11.

Info for manual annotations of cluster A15:

- Start number 22 was manually annotated 1 time for cluster A15.
- Start number 23 was manually annotated 19 times for cluster A15.
- Start number 25 was manually annotated 1 time for cluster A15.

Info for manual annotations of cluster A18:

- Start number 16 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A20:

- Start number 18 was manually annotated 1 time for cluster A20.

Info for manual annotations of cluster A3:

- Start number 9 was manually annotated 17 times for cluster A3.
- Start number 11 was manually annotated 80 times for cluster A3.
- Start number 12 was manually annotated 1 time for cluster A3.
- Start number 17 was manually annotated 7 times for cluster A3.
- Start number 18 was manually annotated 1 time for cluster A3.

Info for manual annotations of cluster A4:

- Start number 7 was manually annotated 1 time for cluster A4.
- Start number 8 was manually annotated 1 time for cluster A4.
- Start number 18 was manually annotated 135 times for cluster A4.

Info for manual annotations of cluster A5:

- Start number 17 was manually annotated 23 times for cluster A5.

Info for manual annotations of cluster A6:

- Start number 1 was manually annotated 4 times for cluster A6.
- Start number 20 was manually annotated 1 time for cluster A6.

Info for manual annotations of cluster A7:

- Start number 24 was manually annotated 1 time for cluster A7.

Info for manual annotations of cluster CA:

- Start number 28 was manually annotated 36 times for cluster CA.

Gene Information:

Gene: ACFishhook_52 Start: 33821, Stop: 33231, Start Num: 11

Candidate Starts for ACFishhook_52:

(Start: 11 @33821 has 80 MA's), (Start: 12 @33815 has 1 MA's), (36, 33671), (40, 33662), (47, 33635), (52, 33551), (68, 33347), (74, 33299),

Gene: AbbysRanger_48 Start: 33378, Stop: 32839, Start Num: 18

Candidate Starts for AbbysRanger_48:

(Start: 7 @33435 has 1 MA's), (Start: 8 @33420 has 1 MA's), (Start: 18 @33378 has 137 MA's), (52, 33120), (57, 33087), (63, 33048), (76, 32880),

Gene: Abdiel_49 Start: 33389, Stop: 32850, Start Num: 18

Candidate Starts for Abdiel_49:

(Start: 7 @33446 has 1 MA's), (Start: 8 @33431 has 1 MA's), (Start: 18 @33389 has 137 MA's), (52, 33131), (57, 33098), (63, 33059), (76, 32891),

Gene: Achebe_47 Start: 33361, Stop: 32822, Start Num: 18

Candidate Starts for Achebe_47:

(Start: 7 @33418 has 1 MA's), (Start: 8 @33403 has 1 MA's), (Start: 18 @33361 has 137 MA's), (52, 33103), (57, 33070), (63, 33031), (76, 32863),

Gene: Aglet_54 Start: 33857, Stop: 33267, Start Num: 11

Candidate Starts for Aglet_54:

(Start: 11 @33857 has 80 MA's), (Start: 12 @33851 has 1 MA's), (36, 33707), (40, 33698), (47, 33671), (52, 33587), (68, 33383), (74, 33335),

Gene: AgronaGT15_52 Start: 33705, Stop: 33118, Start Num: 11

Candidate Starts for AgronaGT15_52:

(Start: 11 @33705 has 80 MA's), (Start: 12 @33699 has 1 MA's), (36, 33561), (40, 33552), (47, 33525), (48, 33522), (51, 33462), (52, 33441), (68, 33234), (74, 33186),

Gene: Airmid_43 Start: 32100, Stop: 31576, Start Num: 17

Candidate Starts for Airmid_43:

(Start: 17 @32100 has 30 MA's), (37, 31968), (39, 31962), (59, 31818),

Gene: Alatin_39 Start: 29865, Stop: 29341, Start Num: 28

Candidate Starts for Alatin_39:

(Start: 28 @29865 has 36 MA's), (38, 29760), (68, 29448), (71, 29439), (72, 29430), (74, 29400),

Gene: Albee_49 Start: 33388, Stop: 32849, Start Num: 18

Candidate Starts for Albee_49:

(Start: 7 @33445 has 1 MA's), (Start: 8 @33430 has 1 MA's), (Start: 18 @33388 has 137 MA's), (52, 33130), (57, 33097), (63, 33058), (76, 32890),

Gene: Alberto7_50 Start: 33725, Stop: 33186, Start Num: 18

Candidate Starts for Alberto7_50:

(Start: 7 @33782 has 1 MA's), (Start: 8 @33767 has 1 MA's), (Start: 18 @33725 has 137 MA's), (52, 33467), (57, 33434), (63, 33395), (76, 33227),

Gene: Alpacados_38 Start: 29770, Stop: 29246, Start Num: 28

Candidate Starts for Alpacados_38:

(Start: 28 @29770 has 36 MA's), (38, 29665), (68, 29353), (71, 29344), (72, 29335), (74, 29305),

Gene: Anaysia_54 Start: 32758, Stop: 32216, Start Num: 23

Candidate Starts for Anaysia_54:

(Start: 23 @32758 has 19 MA's), (26, 32752), (36, 32647), (43, 32620), (44, 32617), (53, 32506), (55, 32485), (57, 32476), (58, 32467), (67, 32320), (73, 32275),

Gene: Aneem_51 Start: 33271, Stop: 32702, Start Num: 20

Candidate Starts for Aneem_51:

(Start: 20 @33271 has 25 MA's), (38, 33136), (61, 32971), (68, 32815),

Gene: AngryOrchard_37 Start: 29729, Stop: 29205, Start Num: 28

Candidate Starts for AngryOrchard_37:

(Start: 28 @29729 has 36 MA's), (38, 29624), (68, 29312), (71, 29303), (72, 29294), (74, 29264),

Gene: Annyong_49 Start: 33433, Stop: 32894, Start Num: 18

Candidate Starts for Annyong_49:

(Start: 7 @33490 has 1 MA's), (Start: 8 @33475 has 1 MA's), (Start: 18 @33433 has 137 MA's), (52, 33175), (57, 33142), (63, 33103), (76, 32935),

Gene: Anon_50 Start: 32020, Stop: 31481, Start Num: 25

Candidate Starts for Anon_50:

(Start: 25 @32020 has 1 MA's), (40, 31894), (57, 31747), (76, 31534), (80, 31501),

Gene: Anthony_46 Start: 31582, Stop: 31001, Start Num: 18

Candidate Starts for Anthony_46:

(10, 31606), (Start: 18 @31582 has 137 MA's), (31, 31510), (38, 31441), (49, 31366), (55, 31306), (57, 31297), (64, 31255), (65, 31249), (68, 31108), (75, 31054),

Gene: Anubis_56 Start: 33743, Stop: 33153, Start Num: 11

Candidate Starts for Anubis_56:

(Start: 11 @33743 has 80 MA's), (Start: 12 @33737 has 1 MA's), (36, 33593), (40, 33584), (47, 33557), (52, 33473), (68, 33269), (74, 33221),

Gene: AppleCloud_37 Start: 29816, Stop: 29292, Start Num: 28

Candidate Starts for AppleCloud_37:

(Start: 28 @29816 has 36 MA's), (38, 29711), (68, 29399), (71, 29390), (72, 29381), (74, 29351),

Gene: Aragog_41 Start: 32083, Stop: 31556, Start Num: 17

Candidate Starts for Aragog_41:

(Start: 17 @32083 has 30 MA's), (37, 31948), (39, 31942), (59, 31798), (79, 31579),

Gene: Archetta_42 Start: 32613, Stop: 32086, Start Num: 17

Candidate Starts for Archetta_42:

(Start: 17 @32613 has 30 MA's), (37, 32478), (39, 32472), (59, 32328), (79, 32109),

Gene: Artemis2UCLA_52 Start: 32678, Stop: 31923, Start Num: 1

Candidate Starts for Artemis2UCLA_52:

(Start: 1 @32678 has 4 MA's), (2, 32663), (3, 32642), (4, 32612), (5, 32606), (Start: 20 @32480 has 25 MA's), (49, 32270), (50, 32267), (57, 32204), (58, 32195), (68, 32033), (70, 32030),

Gene: Arturo_48 Start: 33662, Stop: 33129, Start Num: 18

Candidate Starts for Arturo_48:

(Start: 18 @33662 has 137 MA's), (52, 33404), (57, 33371), (63, 33332), (76, 33170),

Gene: AugsMagnumOpus_56 Start: 33848, Stop: 33258, Start Num: 11

Candidate Starts for AugsMagnumOpus_56:

(Start: 11 @33848 has 80 MA's), (Start: 12 @33842 has 1 MA's), (36, 33698), (40, 33689), (47, 33662), (52, 33578), (68, 33374), (74, 33326),

Gene: AvatarAhPeg_47 Start: 33169, Stop: 32621, Start Num: 18

Candidate Starts for AvatarAhPeg_47:

(Start: 18 @33169 has 137 MA's), (40, 33022), (57, 32872), (69, 32710), (76, 32662),

Gene: Avle17_49 Start: 33385, Stop: 32846, Start Num: 18

Candidate Starts for Avle17_49:

(Start: 7 @33442 has 1 MA's), (Start: 8 @33427 has 1 MA's), (Start: 18 @33385 has 137 MA's), (52, 33127), (57, 33094), (63, 33055), (76, 32887),

Gene: Baby16_49 Start: 33399, Stop: 32860, Start Num: 18

Candidate Starts for Baby16_49:

(Start: 7 @33456 has 1 MA's), (Start: 8 @33441 has 1 MA's), (Start: 18 @33399 has 137 MA's), (52, 33141), (57, 33108), (63, 33069), (76, 32901),

Gene: BabyJohn_48 Start: 33689, Stop: 33126, Start Num: 17

Candidate Starts for BabyJohn_48:

(Start: 7 @33746 has 1 MA's), (Start: 8 @33731 has 1 MA's), (Start: 9 @33719 has 17 MA's), (Start: 17 @33689 has 30 MA's), (30, 33620), (39, 33542), (47, 33506), (52, 33422), (76, 33167),

Gene: BabyRay_50 Start: 33653, Stop: 33060, Start Num: 9

Candidate Starts for BabyRay_50:

(Start: 7 @33680 has 1 MA's), (Start: 8 @33665 has 1 MA's), (Start: 9 @33653 has 17 MA's), (Start: 17 @33623 has 30 MA's), (30, 33554), (39, 33476), (46, 33443), (47, 33440), (52, 33356), (56, 33323), (76, 33101),

Gene: Bachome_52 Start: 33251, Stop: 32685, Start Num: 20

Candidate Starts for Bachome_52:

(Start: 20 @33251 has 25 MA's), (45, 33098), (61, 32957), (68, 32798),

Gene: Backyardigan_47 Start: 33394, Stop: 32855, Start Num: 18

Candidate Starts for Backyardigan_47:

(Start: 7 @33451 has 1 MA's), (Start: 8 @33436 has 1 MA's), (Start: 18 @33394 has 137 MA's), (52, 33136), (57, 33103), (63, 33064), (76, 32896),

Gene: Badger_47 Start: 33362, Stop: 32823, Start Num: 18

Candidate Starts for Badger_47:

(Start: 7 @33419 has 1 MA's), (Start: 8 @33404 has 1 MA's), (Start: 18 @33362 has 137 MA's), (52, 33104), (57, 33071), (63, 33032), (76, 32864),

Gene: BangNhom_50 Start: 33807, Stop: 33271, Start Num: 18

Candidate Starts for BangNhom_50:

(6, 33870), (Start: 18 @33807 has 137 MA's), (52, 33549), (57, 33516), (63, 33477), (76, 33312),

Gene: Bartimeaus_49 Start: 33390, Stop: 32851, Start Num: 18

Candidate Starts for Bartimeaus_49:

(Start: 7 @33447 has 1 MA's), (Start: 8 @33432 has 1 MA's), (Start: 18 @33390 has 137 MA's), (52, 33132), (57, 33099), (63, 33060), (76, 32892),

Gene: Battleship_56 Start: 33029, Stop: 32463, Start Num: 23

Candidate Starts for Battleship_56:

(Start: 23 @33029 has 19 MA's), (26, 33023), (36, 32918), (43, 32891), (44, 32888), (53, 32777), (55, 32756), (57, 32747), (58, 32738), (77, 32519),

Gene: Beauxregard13_53 Start: 33860, Stop: 33270, Start Num: 11

Candidate Starts for Beauxregard13_53:

(Start: 11 @33860 has 80 MA's), (Start: 12 @33854 has 1 MA's), (36, 33710), (40, 33701), (47, 33674), (52, 33590), (68, 33386), (74, 33338),

Gene: Belenaria_39 Start: 29797, Stop: 29273, Start Num: 28

Candidate Starts for Belenaria_39:

(Start: 28 @29797 has 36 MA's), (38, 29692), (68, 29380), (71, 29371), (72, 29362), (74, 29332),

Gene: BellusTerra_50 Start: 33389, Stop: 32850, Start Num: 18

Candidate Starts for BellusTerra_50:

(Start: 7 @33446 has 1 MA's), (Start: 8 @33431 has 1 MA's), (Start: 18 @33389 has 137 MA's), (52, 33131), (57, 33098), (63, 33059), (76, 32891),

Gene: Benedict_45 Start: 32275, Stop: 31751, Start Num: 17

Candidate Starts for Benedict_45:

(Start: 17 @32275 has 30 MA's), (37, 32143), (39, 32137), (59, 31993),

Gene: Bigflo_53 Start: 33856, Stop: 33266, Start Num: 11

Candidate Starts for Bigflo_53:

(Start: 11 @33856 has 80 MA's), (Start: 12 @33850 has 1 MA's), (36, 33706), (40, 33697), (47, 33670), (52, 33586), (68, 33382), (74, 33334),

Gene: Blackmoor_49 Start: 33390, Stop: 32851, Start Num: 18

Candidate Starts for Blackmoor_49:

(Start: 7 @33447 has 1 MA's), (Start: 8 @33432 has 1 MA's), (Start: 18 @33390 has 137 MA's), (52, 33132), (57, 33099), (63, 33060), (76, 32892),

Gene: BlessJoy_53 Start: 33104, Stop: 32358, Start Num: 1

Candidate Starts for BlessJoy_53:

(Start: 1 @33104 has 4 MA's), (2, 33089), (3, 33068), (4, 33038), (5, 33032), (Start: 20 @32906 has 25 MA's), (49, 32696), (50, 32693), (57, 32630), (58, 32621), (68, 32468), (70, 32465),

Gene: Blue7_54 Start: 32748, Stop: 32002, Start Num: 1

Candidate Starts for Blue7_54:

(Start: 1 @32748 has 4 MA's), (2, 32733), (3, 32712), (4, 32682), (5, 32676), (Start: 20 @32550 has 25 MA's), (49, 32340), (50, 32337), (57, 32274), (58, 32265), (68, 32112), (70, 32109),

Gene: BlueBird_52 Start: 33721, Stop: 33158, Start Num: 17

Candidate Starts for BlueBird_52:

(Start: 7 @33778 has 1 MA's), (Start: 8 @33763 has 1 MA's), (Start: 9 @33751 has 17 MA's), (Start: 17 @33721 has 30 MA's), (30, 33652), (39, 33574), (47, 33538), (52, 33454), (76, 33199),

Gene: BobbyDazzler_39 Start: 29844, Stop: 29320, Start Num: 28

Candidate Starts for BobbyDazzler_39:

(Start: 28 @29844 has 36 MA's), (38, 29739), (68, 29427), (71, 29418), (72, 29409), (74, 29379),

Gene: Bombshell_49 Start: 33385, Stop: 32846, Start Num: 18

Candidate Starts for Bombshell_49:

(Start: 7 @33442 has 1 MA's), (Start: 8 @33427 has 1 MA's), (Start: 18 @33385 has 137 MA's), (52, 33127), (57, 33094), (63, 33055), (76, 32887),

Gene: Bonamassa_43 Start: 32602, Stop: 32075, Start Num: 17

Candidate Starts for Bonamassa_43:

(Start: 17 @32602 has 30 MA's), (37, 32467), (39, 32461), (59, 32317), (78, 32116), (79, 32098),

Gene: Bonanza_39 Start: 29772, Stop: 29248, Start Num: 28

Candidate Starts for Bonanza_39:

(Start: 28 @29772 has 36 MA's), (38, 29667), (68, 29355), (71, 29346), (72, 29337), (74, 29307),

Gene: Boohoo_54 Start: 32758, Stop: 32216, Start Num: 23

Candidate Starts for Boohoo_54:

(Start: 23 @32758 has 19 MA's), (26, 32752), (36, 32647), (43, 32620), (44, 32617), (53, 32506), (55, 32485), (57, 32476), (58, 32467), (67, 32320), (73, 32275),

Gene: Bowtie_51 Start: 33278, Stop: 32709, Start Num: 20

Candidate Starts for Bowtie_51:

(Start: 20 @33278 has 25 MA's), (38, 33143), (61, 32978), (68, 32822),

Gene: Bradshaw_39 Start: 29798, Stop: 29274, Start Num: 28

Candidate Starts for Bradshaw_39:

(Start: 28 @29798 has 36 MA's), (38, 29693), (68, 29381), (71, 29372), (72, 29363), (74, 29333),

Gene: BreSam8_53 Start: 33850, Stop: 33260, Start Num: 11

Candidate Starts for BreSam8_53:

(Start: 11 @33850 has 80 MA's), (Start: 12 @33844 has 1 MA's), (36, 33700), (40, 33691), (47, 33664), (52, 33580), (68, 33376), (74, 33328),

Gene: Broseidon_49 Start: 33390, Stop: 32851, Start Num: 18

Candidate Starts for Broseidon_49:

(Start: 7 @33447 has 1 MA's), (Start: 8 @33432 has 1 MA's), (Start: 18 @33390 has 137 MA's), (52, 33132), (57, 33099), (63, 33060), (76, 32892),

Gene: Bruiser_48 Start: 33388, Stop: 32849, Start Num: 18

Candidate Starts for Bruiser_48:

(Start: 7 @33445 has 1 MA's), (Start: 8 @33430 has 1 MA's), (Start: 18 @33388 has 137 MA's), (52, 33130), (57, 33097), (63, 33058), (76, 32890),

Gene: Bryce_39 Start: 29773, Stop: 29249, Start Num: 28

Candidate Starts for Bryce_39:

(Start: 28 @29773 has 36 MA's), (38, 29668), (68, 29356), (71, 29347), (72, 29338), (74, 29308),

Gene: BubbleTrouble_48 Start: 33388, Stop: 32849, Start Num: 18

Candidate Starts for BubbleTrouble_48:

(Start: 7 @33445 has 1 MA's), (Start: 8 @33430 has 1 MA's), (Start: 18 @33388 has 137 MA's), (52, 33130), (57, 33097), (63, 33058), (76, 32890),

Gene: Bud_50 Start: 32828, Stop: 32259, Start Num: 20

Candidate Starts for Bud_50:

(Start: 20 @32828 has 25 MA's), (38, 32693), (61, 32528), (68, 32372),

Gene: Bugatti_51 Start: 33721, Stop: 33158, Start Num: 17

Candidate Starts for Bugatti_51:

(Start: 7 @33778 has 1 MA's), (Start: 8 @33763 has 1 MA's), (Start: 9 @33751 has 17 MA's), (Start: 17 @33721 has 30 MA's), (30, 33652), (39, 33574), (47, 33538), (52, 33454), (76, 33199),

Gene: Bumblebee11_47 Start: 33364, Stop: 32825, Start Num: 18

Candidate Starts for Bumblebee11_47:

(Start: 7 @33421 has 1 MA's), (Start: 8 @33406 has 1 MA's), (Start: 18 @33364 has 137 MA's), (52, 33106), (57, 33073), (63, 33034), (76, 32866),

Gene: Burger_47 Start: 33388, Stop: 32849, Start Num: 18

Candidate Starts for Burger_47:

(Start: 7 @33445 has 1 MA's), (Start: 8 @33430 has 1 MA's), (Start: 18 @33388 has 137 MA's), (52, 33130), (57, 33097), (63, 33058), (76, 32890),

Gene: BuzzBuzz_51 Start: 33884, Stop: 33297, Start Num: 11

Candidate Starts for BuzzBuzz_51:

(Start: 11 @33884 has 80 MA's), (Start: 12 @33878 has 1 MA's), (36, 33740), (40, 33731), (47, 33704), (48, 33701), (51, 33641), (52, 33620), (68, 33413), (74, 33365),

Gene: Bxz2_49 Start: 33885, Stop: 33304, Start Num: 12

Candidate Starts for Bxz2_49:

(Start: 11 @33891 has 80 MA's), (Start: 12 @33885 has 1 MA's), (36, 33747), (40, 33738), (47, 33711), (48, 33708), (51, 33648), (52, 33627), (68, 33420), (74, 33372),

Gene: Caelakin_49 Start: 33388, Stop: 32849, Start Num: 18

Candidate Starts for Caelakin_49:

(Start: 7 @33445 has 1 MA's), (Start: 8 @33430 has 1 MA's), (Start: 18 @33388 has 137 MA's), (52, 33130), (57, 33097), (63, 33058), (76, 32890),

Gene: Calvinny_53 Start: 33749, Stop: 33159, Start Num: 11

Candidate Starts for Calvinny_53:

(Start: 11 @33749 has 80 MA's), (Start: 12 @33743 has 1 MA's), (36, 33599), (40, 33590), (47, 33563), (52, 33479), (68, 33275), (74, 33227),

Gene: Camperdownii_47 Start: 33062, Stop: 32523, Start Num: 18
Candidate Starts for Camperdownii_47:
(Start: 7 @33119 has 1 MA's), (Start: 8 @33104 has 1 MA's), (Start: 18 @33062 has 137 MA's), (52, 32804), (57, 32771), (63, 32732), (76, 32564),

Gene: Caviar_49 Start: 33695, Stop: 33096, Start Num: 9
Candidate Starts for Caviar_49:
(Start: 7 @33722 has 1 MA's), (Start: 8 @33707 has 1 MA's), (Start: 9 @33695 has 17 MA's), (Start: 17 @33665 has 30 MA's), (30, 33596), (39, 33518), (52, 33398), (76, 33137),

Gene: CentreCat_49 Start: 33391, Stop: 32852, Start Num: 18
Candidate Starts for CentreCat_49:
(Start: 7 @33448 has 1 MA's), (Start: 8 @33433 has 1 MA's), (Start: 18 @33391 has 137 MA's), (52, 33133), (57, 33100), (63, 33061), (76, 32893),

Gene: Cerulean_50 Start: 33808, Stop: 33272, Start Num: 18
Candidate Starts for Cerulean_50:
(6, 33871), (Start: 18 @33808 has 137 MA's), (52, 33550), (57, 33517), (63, 33478), (76, 33313),

Gene: Chadwick_46 Start: 32252, Stop: 31728, Start Num: 17
Candidate Starts for Chadwick_46:
(Start: 17 @32252 has 30 MA's), (37, 32120), (39, 32114), (59, 31970),

Gene: ChampagnePapi_51 Start: 33807, Stop: 33271, Start Num: 18
Candidate Starts for ChampagnePapi_51:
(6, 33870), (Start: 18 @33807 has 137 MA's), (52, 33549), (57, 33516), (63, 33477), (76, 33312),

Gene: Chaph_49 Start: 33399, Stop: 32860, Start Num: 18
Candidate Starts for Chaph_49:
(Start: 7 @33456 has 1 MA's), (Start: 8 @33441 has 1 MA's), (Start: 18 @33399 has 137 MA's), (52, 33141), (57, 33108), (63, 33069), (76, 32901),

Gene: Chiqui_48 Start: 33698, Stop: 33135, Start Num: 17
Candidate Starts for Chiqui_48:
(Start: 7 @33755 has 1 MA's), (Start: 8 @33740 has 1 MA's), (Start: 9 @33728 has 17 MA's), (Start: 17 @33698 has 30 MA's), (30, 33629), (39, 33551), (47, 33515), (52, 33431), (76, 33176),

Gene: Cici_48 Start: 33379, Stop: 32840, Start Num: 18
Candidate Starts for Cici_48:
(Start: 7 @33436 has 1 MA's), (Start: 8 @33421 has 1 MA's), (Start: 18 @33379 has 137 MA's), (52, 33121), (57, 33088), (63, 33049), (76, 32881),

Gene: Cindaradix_46 Start: 33000, Stop: 32467, Start Num: 18
Candidate Starts for Cindaradix_46:
(Start: 7 @33057 has 1 MA's), (Start: 8 @33042 has 1 MA's), (Start: 18 @33000 has 137 MA's), (52, 32742), (57, 32709), (63, 32670), (76, 32508),

Gene: Cintron_48 Start: 33365, Stop: 32829, Start Num: 18
Candidate Starts for Cintron_48:
(Start: 7 @33422 has 1 MA's), (Start: 8 @33407 has 1 MA's), (Start: 18 @33365 has 137 MA's), (52, 33107), (57, 33074), (63, 33035), (76, 32870),

Gene: Citius_49 Start: 33409, Stop: 32870, Start Num: 18

Candidate Starts for Citius_49:

(Start: 7 @33466 has 1 MA's), (Start: 8 @33451 has 1 MA's), (Start: 18 @33409 has 137 MA's), (52, 33151), (57, 33118), (63, 33079), (76, 32911),

Gene: Clarenza_48 Start: 33385, Stop: 32846, Start Num: 18

Candidate Starts for Clarenza_48:

(Start: 7 @33442 has 1 MA's), (Start: 8 @33427 has 1 MA's), (Start: 18 @33385 has 137 MA's), (52, 33127), (57, 33094), (63, 33055), (76, 32887),

Gene: Cocoaberry_49 Start: 33392, Stop: 32853, Start Num: 18

Candidate Starts for Cocoaberry_49:

(Start: 7 @33449 has 1 MA's), (Start: 8 @33434 has 1 MA's), (Start: 18 @33392 has 137 MA's), (52, 33134), (57, 33101), (63, 33062), (76, 32894),

Gene: Colbster_53 Start: 33860, Stop: 33270, Start Num: 11

Candidate Starts for Colbster_53:

(Start: 11 @33860 has 80 MA's), (Start: 12 @33854 has 1 MA's), (36, 33710), (40, 33701), (47, 33674), (52, 33590), (68, 33386), (74, 33338),

Gene: Commander_49 Start: 33387, Stop: 32848, Start Num: 18

Candidate Starts for Commander_49:

(Start: 7 @33444 has 1 MA's), (Start: 8 @33429 has 1 MA's), (Start: 18 @33387 has 137 MA's), (52, 33129), (57, 33096), (63, 33057), (76, 32889),

Gene: Connomayer_49 Start: 33388, Stop: 32849, Start Num: 18

Candidate Starts for Connomayer_49:

(Start: 7 @33445 has 1 MA's), (Start: 8 @33430 has 1 MA's), (Start: 18 @33388 has 137 MA's), (52, 33130), (57, 33097), (63, 33058), (76, 32890),

Gene: CosmicSans_39 Start: 29798, Stop: 29274, Start Num: 28

Candidate Starts for CosmicSans_39:

(Start: 28 @29798 has 36 MA's), (38, 29693), (68, 29381), (71, 29372), (72, 29363), (74, 29333),

Gene: Cuco_42 Start: 32356, Stop: 31829, Start Num: 17

Candidate Starts for Cuco_42:

(Start: 17 @32356 has 30 MA's), (37, 32221), (39, 32215), (59, 32071), (79, 31852),

Gene: Cullens_53 Start: 33856, Stop: 33266, Start Num: 11

Candidate Starts for Cullens_53:

(Start: 11 @33856 has 80 MA's), (Start: 12 @33850 has 1 MA's), (36, 33706), (40, 33697), (47, 33670), (52, 33586), (68, 33382), (74, 33334),

Gene: DaHudson_53 Start: 33849, Stop: 33259, Start Num: 11

Candidate Starts for DaHudson_53:

(Start: 11 @33849 has 80 MA's), (Start: 12 @33843 has 1 MA's), (36, 33699), (40, 33690), (47, 33663), (52, 33579), (68, 33375), (74, 33327),

Gene: Daishi_52 Start: 32725, Stop: 32138, Start Num: 11

Candidate Starts for Daishi_52:

(Start: 11 @32725 has 80 MA's), (Start: 12 @32719 has 1 MA's), (36, 32581), (40, 32572), (47, 32545), (48, 32542), (51, 32482), (52, 32461), (68, 32254), (74, 32206),

Gene: Datway_48 Start: 33350, Stop: 32811, Start Num: 18

Candidate Starts for Datway_48:

(Start: 7 @33407 has 1 MA's), (Start: 8 @33392 has 1 MA's), (Start: 18 @33350 has 137 MA's), (57, 33059), (63, 33020), (76, 32852),

Gene: Deano_48 Start: 33396, Stop: 32857, Start Num: 18

Candidate Starts for Deano_48:

(Start: 7 @33453 has 1 MA's), (Start: 8 @33438 has 1 MA's), (Start: 18 @33396 has 137 MA's), (52, 33138), (57, 33105), (63, 33066), (76, 32898),

Gene: DekHockey33_54 Start: 33050, Stop: 32484, Start Num: 23

Candidate Starts for DekHockey33_54:

(Start: 23 @33050 has 19 MA's), (26, 33044), (36, 32939), (43, 32912), (44, 32909), (53, 32798), (55, 32777), (57, 32768), (58, 32759), (77, 32540),

Gene: Dhanush_49 Start: 33391, Stop: 32852, Start Num: 18

Candidate Starts for Dhanush_49:

(Start: 7 @33448 has 1 MA's), (Start: 8 @33433 has 1 MA's), (Start: 18 @33391 has 137 MA's), (52, 33133), (57, 33100), (63, 33061), (76, 32893),

Gene: Dieselweasel_54 Start: 33859, Stop: 33269, Start Num: 11

Candidate Starts for Dieselweasel_54:

(Start: 11 @33859 has 80 MA's), (Start: 12 @33853 has 1 MA's), (36, 33709), (40, 33700), (47, 33673), (52, 33589), (68, 33385), (74, 33337),

Gene: Dinger_39 Start: 29859, Stop: 29335, Start Num: 28

Candidate Starts for Dinger_39:

(Start: 28 @29859 has 36 MA's), (38, 29754), (68, 29442), (71, 29433), (72, 29424), (74, 29394),

Gene: DirtyDunning_48 Start: 33403, Stop: 32870, Start Num: 18

Candidate Starts for DirtyDunning_48:

(Start: 7 @33460 has 1 MA's), (Start: 8 @33445 has 1 MA's), (Start: 18 @33403 has 137 MA's), (52, 33145), (57, 33112), (63, 33073), (76, 32911),

Gene: Discoknowium_41 Start: 32092, Stop: 31565, Start Num: 17

Candidate Starts for Discoknowium_41:

(Start: 17 @32092 has 30 MA's), (37, 31957), (39, 31951), (59, 31807), (79, 31588),

Gene: DropBear_50 Start: 33590, Stop: 33039, Start Num: 17

Candidate Starts for DropBear_50:

(Start: 7 @33647 has 1 MA's), (Start: 8 @33632 has 1 MA's), (Start: 9 @33620 has 17 MA's), (Start: 17 @33590 has 30 MA's), (30, 33521), (39, 33443), (47, 33407), (52, 33323), (76, 33080),

Gene: Druantia_49 Start: 33391, Stop: 32852, Start Num: 18

Candidate Starts for Druantia_49:

(Start: 7 @33448 has 1 MA's), (Start: 8 @33433 has 1 MA's), (Start: 18 @33391 has 137 MA's), (52, 33133), (57, 33100), (63, 33061), (76, 32893),

Gene: Eagle_49 Start: 33413, Stop: 32874, Start Num: 18

Candidate Starts for Eagle_49:

(Start: 7 @33470 has 1 MA's), (Start: 8 @33455 has 1 MA's), (Start: 18 @33413 has 137 MA's), (52, 33155), (57, 33122), (63, 33083), (76, 32915),

Gene: Eapen_49 Start: 33383, Stop: 32844, Start Num: 18

Candidate Starts for Eapen_49:

(Start: 7 @33440 has 1 MA's), (Start: 8 @33425 has 1 MA's), (Start: 18 @33383 has 137 MA's), (52, 33125), (57, 33092), (63, 33053), (76, 32885),

Gene: Ebony_50 Start: 32845, Stop: 32276, Start Num: 20

Candidate Starts for Ebony_50:

(Start: 20 @32845 has 25 MA's), (38, 32710), (61, 32545), (68, 32389),

Gene: EITiger69_44 Start: 32269, Stop: 31745, Start Num: 17

Candidate Starts for EITiger69_44:

(Start: 17 @32269 has 30 MA's), (37, 32137), (39, 32131), (59, 31987),

Gene: EpicPhail_54 Start: 33860, Stop: 33270, Start Num: 11

Candidate Starts for EpicPhail_54:

(Start: 11 @33860 has 80 MA's), (Start: 12 @33854 has 1 MA's), (36, 33710), (40, 33701), (47, 33674), (52, 33590), (68, 33386), (74, 33338),

Gene: Epsocamisio_52 Start: 32293, Stop: 31751, Start Num: 23

Candidate Starts for Epsocamisio_52:

(Start: 23 @32293 has 19 MA's), (26, 32287), (36, 32182), (43, 32155), (44, 32152), (53, 32041), (55, 32020), (57, 32011), (58, 32002), (67, 31855), (73, 31810),

Gene: Erik_39 Start: 29796, Stop: 29272, Start Num: 28

Candidate Starts for Erik_39:

(Start: 28 @29796 has 36 MA's), (38, 29691), (68, 29379), (71, 29370), (72, 29361), (74, 29331),

Gene: Eris_48 Start: 33388, Stop: 32849, Start Num: 18

Candidate Starts for Eris_48:

(Start: 7 @33445 has 1 MA's), (Start: 8 @33430 has 1 MA's), (Start: 18 @33388 has 137 MA's), (52, 33130), (57, 33097), (63, 33058), (76, 32890),

Gene: Eros_49 Start: 33390, Stop: 32851, Start Num: 18

Candidate Starts for Eros_49:

(Start: 7 @33447 has 1 MA's), (Start: 8 @33432 has 1 MA's), (Start: 18 @33390 has 137 MA's), (52, 33132), (57, 33099), (63, 33060), (76, 32892),

Gene: Espica_39 Start: 29797, Stop: 29273, Start Num: 28

Candidate Starts for Espica_39:

(Start: 28 @29797 has 36 MA's), (38, 29692), (68, 29380), (71, 29371), (72, 29362), (74, 29332),

Gene: Et2Brutus_49 Start: 32805, Stop: 32236, Start Num: 20

Candidate Starts for Et2Brutus_49:

(Start: 20 @32805 has 25 MA's), (38, 32670), (61, 32505), (68, 32349),

Gene: Eurydice_50 Start: 33385, Stop: 32846, Start Num: 18

Candidate Starts for Eurydice_50:

(Start: 7 @33442 has 1 MA's), (Start: 8 @33427 has 1 MA's), (Start: 18 @33385 has 137 MA's), (52, 33127), (57, 33094), (63, 33055), (76, 32887),

Gene: Farber_53 Start: 33846, Stop: 33259, Start Num: 11

Candidate Starts for Farber_53:

(Start: 11 @33846 has 80 MA's), (Start: 12 @33840 has 1 MA's), (36, 33702), (40, 33693), (47, 33666), (48, 33663), (51, 33603), (52, 33582), (68, 33375), (74, 33327),

Gene: FatCactus_42 Start: 30998, Stop: 30444, Start Num: 19

Candidate Starts for FatCactus_42:

(19, 30998), (32, 30926), (41, 30848), (43, 30842), (47, 30821), (49, 30776), (52, 30737), (56, 30704), (57, 30701), (63, 30662), (68, 30551), (74, 30503),

Gene: Fernando_53 Start: 33856, Stop: 33266, Start Num: 11

Candidate Starts for Fernando_53:

(Start: 11 @33856 has 80 MA's), (Start: 12 @33850 has 1 MA's), (36, 33706), (40, 33697), (47, 33670), (52, 33586), (68, 33382), (74, 33334),

Gene: Fibonacci_50 Start: 32814, Stop: 32251, Start Num: 20

Candidate Starts for Fibonacci_50:

(Start: 20 @32814 has 25 MA's), (38, 32685), (61, 32520), (68, 32364),

Gene: Flaverint_51 Start: 33272, Stop: 32703, Start Num: 20

Candidate Starts for Flaverint_51:

(Start: 20 @33272 has 25 MA's), (38, 33137), (61, 32972), (68, 32816),

Gene: Florean_49 Start: 33387, Stop: 32848, Start Num: 18

Candidate Starts for Florean_49:

(Start: 7 @33444 has 1 MA's), (Start: 8 @33429 has 1 MA's), (Start: 18 @33387 has 137 MA's), (52, 33129), (57, 33096), (63, 33057), (76, 32889),

Gene: Flux_49 Start: 33387, Stop: 32848, Start Num: 18

Candidate Starts for Flux_49:

(Start: 7 @33444 has 1 MA's), (Start: 8 @33429 has 1 MA's), (Start: 18 @33387 has 137 MA's), (52, 33129), (57, 33096), (63, 33057), (76, 32889),

Gene: FlyCatcher_54 Start: 35717, Stop: 35193, Start Num: 24

Candidate Starts for FlyCatcher_54:

(Start: 24 @35717 has 1 MA's), (34, 35621), (55, 35462), (57, 35453), (62, 35420), (69, 35285), (76, 35240),

Gene: Fred313_50 Start: 33287, Stop: 32724, Start Num: 17

Candidate Starts for Fred313_50:

(Start: 7 @33338 has 1 MA's), (Start: 8 @33323 has 1 MA's), (Start: 9 @33311 has 17 MA's), (Start: 17 @33287 has 30 MA's), (30, 33218), (39, 33140), (46, 33107), (47, 33104), (52, 33020), (76, 32765),

Gene: Funston_48 Start: 33388, Stop: 32849, Start Num: 18

Candidate Starts for Funston_48:

(Start: 7 @33445 has 1 MA's), (Start: 8 @33430 has 1 MA's), (Start: 18 @33388 has 137 MA's), (52, 33130), (57, 33097), (63, 33058), (76, 32890),

Gene: Gadost_49 Start: 33392, Stop: 32853, Start Num: 18

Candidate Starts for Gadost_49:

(Start: 7 @33449 has 1 MA's), (Start: 8 @33434 has 1 MA's), (Start: 18 @33392 has 137 MA's), (52, 33134), (57, 33101), (63, 33062), (76, 32894),

Gene: Gemma_52 Start: 33745, Stop: 33155, Start Num: 11

Candidate Starts for Gemma_52:

(Start: 11 @33745 has 80 MA's), (Start: 12 @33739 has 1 MA's), (36, 33595), (40, 33586), (47, 33559), (52, 33475), (68, 33271), (74, 33223),

Gene: George_42 Start: 32544, Stop: 32017, Start Num: 17

Candidate Starts for George_42:

(Start: 17 @32544 has 30 MA's), (37, 32409), (39, 32403), (59, 32259), (79, 32040),

Gene: Gilberta_51 Start: 33262, Stop: 32693, Start Num: 20

Candidate Starts for Gilberta_51:

(Start: 20 @33262 has 25 MA's), (38, 33127), (61, 32962), (68, 32806),

Gene: GingkoMaracino_53 Start: 33742, Stop: 33152, Start Num: 11

Candidate Starts for GingkoMaracino_53:

(Start: 11 @33742 has 80 MA's), (Start: 12 @33736 has 1 MA's), (36, 33592), (40, 33583), (47, 33556), (52, 33472), (68, 33268), (74, 33220),

Gene: Giroux_51 Start: 33720, Stop: 33157, Start Num: 17

Candidate Starts for Giroux_51:

(Start: 7 @33777 has 1 MA's), (Start: 8 @33762 has 1 MA's), (Start: 9 @33750 has 17 MA's), (Start: 17 @33720 has 30 MA's), (30, 33651), (39, 33573), (47, 33537), (52, 33453), (76, 33198),

Gene: Gladiator_50 Start: 32270, Stop: 31527, Start Num: 1

Candidate Starts for Gladiator_50:

(Start: 1 @32270 has 4 MA's), (2, 32255), (3, 32234), (4, 32204), (5, 32198), (Start: 20 @32072 has 25 MA's), (49, 31862), (50, 31859), (57, 31796), (58, 31787), (68, 31637), (70, 31634),

Gene: Gollum_39 Start: 29796, Stop: 29272, Start Num: 28

Candidate Starts for Gollum_39:

(Start: 28 @29796 has 36 MA's), (38, 29691), (68, 29379), (71, 29370), (72, 29361), (74, 29331),

Gene: Grif_53 Start: 33931, Stop: 33341, Start Num: 11

Candidate Starts for Grif_53:

(Start: 11 @33931 has 80 MA's), (Start: 12 @33925 has 1 MA's), (36, 33781), (40, 33772), (47, 33745), (52, 33661), (68, 33457), (74, 33409),

Gene: Groupthink_54 Start: 33749, Stop: 33159, Start Num: 11

Candidate Starts for Groupthink_54:

(Start: 11 @33749 has 80 MA's), (Start: 12 @33743 has 1 MA's), (36, 33599), (40, 33590), (47, 33563), (52, 33479), (68, 33275), (74, 33227),

Gene: Grub_53 Start: 33848, Stop: 33258, Start Num: 11

Candidate Starts for Grub_53:

(Start: 11 @33848 has 80 MA's), (Start: 12 @33842 has 1 MA's), (36, 33698), (40, 33689), (47, 33662), (52, 33578), (68, 33374), (74, 33326),

Gene: Grum1_53 Start: 33856, Stop: 33266, Start Num: 11

Candidate Starts for Grum1_53:

(Start: 11 @33856 has 80 MA's), (Start: 12 @33850 has 1 MA's), (36, 33706), (40, 33697), (47, 33670), (52, 33586), (68, 33382), (74, 33334),

Gene: GtownJaz_53 Start: 33858, Stop: 33268, Start Num: 11

Candidate Starts for GtownJaz_53:

(Start: 11 @33858 has 80 MA's), (Start: 12 @33852 has 1 MA's), (36, 33708), (40, 33699), (47, 33672), (52, 33588), (68, 33384), (74, 33336),

Gene: HamSlice_48 Start: 33386, Stop: 32847, Start Num: 18

Candidate Starts for HamSlice_48:

(Start: 7 @33443 has 1 MA's), (Start: 8 @33428 has 1 MA's), (Start: 18 @33386 has 137 MA's), (52, 33128), (57, 33095), (63, 33056), (76, 32888),

Gene: Hammer_53 Start: 32552, Stop: 31803, Start Num: 1

Candidate Starts for Hammer_53:

(Start: 1 @32552 has 4 MA's), (2, 32537), (3, 32516), (4, 32486), (5, 32480), (Start: 20 @32354 has 25 MA's), (49, 32144), (50, 32141), (57, 32078), (58, 32069), (68, 31913), (70, 31910),

Gene: Happiness_48 Start: 33390, Stop: 32854, Start Num: 18

Candidate Starts for Happiness_48:

(6, 33453), (Start: 18 @33390 has 137 MA's), (52, 33132), (57, 33099), (63, 33060), (76, 32895),

Gene: Harlequin_39 Start: 29803, Stop: 29279, Start Num: 28

Candidate Starts for Harlequin_39:

(Start: 28 @29803 has 36 MA's), (38, 29698), (68, 29386), (71, 29377), (72, 29368), (74, 29338),

Gene: HashRod_54 Start: 33884, Stop: 33297, Start Num: 11

Candidate Starts for HashRod_54:

(Start: 11 @33884 has 80 MA's), (Start: 12 @33878 has 1 MA's), (36, 33740), (40, 33731), (47, 33704), (48, 33701), (51, 33641), (52, 33620), (68, 33413), (74, 33365),

Gene: HaveUMetTed_54 Start: 33734, Stop: 33141, Start Num: 11

Candidate Starts for HaveUMetTed_54:

(Start: 11 @33734 has 80 MA's), (Start: 12 @33728 has 1 MA's), (36, 33581), (40, 33572), (47, 33545), (52, 33461), (68, 33257), (74, 33209),

Gene: Heathen_50 Start: 33373, Stop: 32780, Start Num: 9

Candidate Starts for Heathen_50:

(Start: 7 @33400 has 1 MA's), (Start: 8 @33385 has 1 MA's), (Start: 9 @33373 has 17 MA's), (Start: 17 @33343 has 30 MA's), (30, 33274), (39, 33196), (46, 33163), (47, 33160), (52, 33076), (76, 32821),

Gene: HelDan_50 Start: 33595, Stop: 33032, Start Num: 17

Candidate Starts for HelDan_50:

(Start: 7 @33652 has 1 MA's), (Start: 8 @33637 has 1 MA's), (Start: 9 @33625 has 17 MA's), (Start: 17 @33595 has 30 MA's), (30, 33526), (39, 33448), (46, 33415), (47, 33412), (52, 33328), (76, 33073),

Gene: Heliosoles_52 Start: 33752, Stop: 33162, Start Num: 11

Candidate Starts for Heliosoles_52:

(Start: 11 @33752 has 80 MA's), (Start: 12 @33746 has 1 MA's), (36, 33602), (40, 33593), (47, 33566), (52, 33482), (68, 33278), (74, 33230),

Gene: Hercules11_53 Start: 33865, Stop: 33275, Start Num: 11

Candidate Starts for Hercules11_53:

(Start: 11 @33865 has 80 MA's), (Start: 12 @33859 has 1 MA's), (36, 33715), (40, 33706), (47, 33679), (52, 33595), (68, 33391), (74, 33343),

Gene: Hiro_39 Start: 30058, Stop: 29534, Start Num: 28

Candidate Starts for Hiro_39:

(Start: 28 @30058 has 36 MA's), (38, 29953), (68, 29641), (71, 29632), (72, 29623), (74, 29593),

Gene: Holli_48 Start: 33235, Stop: 32639, Start Num: 7

Candidate Starts for Holli_48:

(Start: 7 @33235 has 1 MA's), (Start: 8 @33220 has 1 MA's), (Start: 18 @33178 has 137 MA's), (52, 32920), (57, 32887), (63, 32848), (76, 32680),

Gene: Hookmount_49 Start: 33696, Stop: 33097, Start Num: 9

Candidate Starts for Hookmount_49:

(Start: 7 @33723 has 1 MA's), (Start: 8 @33708 has 1 MA's), (Start: 9 @33696 has 17 MA's), (Start: 17 @33666 has 30 MA's), (30, 33597), (39, 33519), (52, 33399), (76, 33138),

Gene: Houdini22_49 Start: 33392, Stop: 32853, Start Num: 18

Candidate Starts for Houdini22_49:

(Start: 7 @33449 has 1 MA's), (Start: 8 @33434 has 1 MA's), (Start: 18 @33392 has 137 MA's), (52, 33134), (57, 33101), (63, 33062), (76, 32894),

Gene: HuhtaEnerson15_43 Start: 32535, Stop: 32008, Start Num: 17

Candidate Starts for HuhtaEnerson15_43:

(Start: 17 @32535 has 30 MA's), (37, 32400), (39, 32394), (59, 32250), (78, 32049), (79, 32031),

Gene: Hutc2_50 Start: 32814, Stop: 32251, Start Num: 20

Candidate Starts for Hutc2_50:

(Start: 20 @32814 has 25 MA's), (38, 32685), (61, 32520), (68, 32364),

Gene: Huxley_49 Start: 33449, Stop: 32910, Start Num: 18

Candidate Starts for Huxley_49:

(Start: 7 @33506 has 1 MA's), (Start: 8 @33491 has 1 MA's), (Start: 18 @33449 has 137 MA's), (52, 33191), (57, 33158), (63, 33119), (76, 32951),

Gene: ICleared_49 Start: 33417, Stop: 32878, Start Num: 18

Candidate Starts for ICleared_49:

(Start: 7 @33474 has 1 MA's), (Start: 8 @33459 has 1 MA's), (Start: 18 @33417 has 137 MA's), (52, 33159), (57, 33126), (63, 33087), (76, 32919),

Gene: Iceman_49 Start: 33674, Stop: 33135, Start Num: 18

Candidate Starts for Iceman_49:

(Start: 7 @33731 has 1 MA's), (Start: 8 @33716 has 1 MA's), (Start: 18 @33674 has 137 MA's), (52, 33416), (57, 33383), (63, 33344), (76, 33176),

Gene: Idleandcovert_51 Start: 33751, Stop: 33158, Start Num: 9

Candidate Starts for Idleandcovert_51:

(Start: 7 @33778 has 1 MA's), (Start: 8 @33763 has 1 MA's), (Start: 9 @33751 has 17 MA's), (Start: 17 @33721 has 30 MA's), (30, 33652), (39, 33574), (47, 33538), (52, 33454), (76, 33199),

Gene: Insomnia_51 Start: 33325, Stop: 32756, Start Num: 20

Candidate Starts for Insomnia_51:

(Start: 20 @33325 has 25 MA's), (38, 33190), (61, 33025), (68, 32869),

Gene: Iracema64_50 Start: 33652, Stop: 33113, Start Num: 18

Candidate Starts for Iracema64_50:

(Start: 7 @33709 has 1 MA's), (Start: 8 @33694 has 1 MA's), (Start: 18 @33652 has 137 MA's), (52, 33394), (57, 33361), (63, 33322), (76, 33154),

Gene: JHC117_53 Start: 33855, Stop: 33265, Start Num: 11

Candidate Starts for JHC117_53:

(Start: 11 @33855 has 80 MA's), (Start: 12 @33849 has 1 MA's), (36, 33705), (40, 33696), (47, 33669), (52, 33585), (68, 33381), (74, 33333),

Gene: JSwag_53 Start: 32482, Stop: 31940, Start Num: 23

Candidate Starts for JSwag_53:

(Start: 23 @32482 has 19 MA's), (26, 32476), (36, 32371), (43, 32344), (44, 32341), (53, 32230), (55, 32209), (57, 32200), (58, 32191), (67, 32044), (73, 31999),

Gene: Jabiru_43 Start: 32142, Stop: 31618, Start Num: 17

Candidate Starts for Jabiru_43:

(Start: 17 @32142 has 30 MA's), (37, 32010), (39, 32004), (59, 31860), (79, 31641),

Gene: Jabith_51 Start: 33326, Stop: 32757, Start Num: 20

Candidate Starts for Jabith_51:

(Start: 20 @33326 has 25 MA's), (38, 33191), (61, 33026), (68, 32870),

Gene: Jaykayelowell_47 Start: 33381, Stop: 32842, Start Num: 18

Candidate Starts for Jaykayelowell_47:

(Start: 7 @33438 has 1 MA's), (Start: 8 @33423 has 1 MA's), (Start: 18 @33381 has 137 MA's), (52, 33123), (57, 33090), (63, 33051), (76, 32883),

Gene: JenCasNa_54 Start: 33856, Stop: 33266, Start Num: 11

Candidate Starts for JenCasNa_54:

(Start: 11 @33856 has 80 MA's), (Start: 12 @33850 has 1 MA's), (36, 33706), (40, 33697), (47, 33670), (52, 33586), (68, 33382), (74, 33334),

Gene: JeppNRM_54 Start: 33750, Stop: 33160, Start Num: 11

Candidate Starts for JeppNRM_54:

(Start: 11 @33750 has 80 MA's), (Start: 12 @33744 has 1 MA's), (36, 33600), (40, 33591), (47, 33564), (52, 33480), (68, 33276), (74, 33228),

Gene: Jester_39 Start: 29734, Stop: 29210, Start Num: 28

Candidate Starts for Jester_39:

(Start: 28 @29734 has 36 MA's), (38, 29629), (68, 29317), (71, 29308), (72, 29299), (74, 29269),

Gene: JetBlade_49 Start: 33382, Stop: 32843, Start Num: 18

Candidate Starts for JetBlade_49:

(Start: 7 @33439 has 1 MA's), (Start: 8 @33424 has 1 MA's), (Start: 18 @33382 has 137 MA's), (52, 33124), (57, 33091), (63, 33052), (76, 32884),

Gene: Jobu08_52 Start: 33688, Stop: 33098, Start Num: 11

Candidate Starts for Jobu08_52:

(Start: 11 @33688 has 80 MA's), (Start: 12 @33682 has 1 MA's), (36, 33538), (40, 33529), (47, 33502), (52, 33418), (68, 33214), (74, 33166),

Gene: JoongJeon_48 Start: 33385, Stop: 32846, Start Num: 18

Candidate Starts for JoongJeon_48:

(Start: 7 @33442 has 1 MA's), (Start: 8 @33427 has 1 MA's), (Start: 18 @33385 has 137 MA's), (52, 33127), (57, 33094), (63, 33055), (76, 32887),

Gene: Joselito_51 Start: 33271, Stop: 32702, Start Num: 20

Candidate Starts for Joselito_51:

(Start: 20 @33271 has 25 MA's), (38, 33136), (61, 32971), (68, 32815),

Gene: KADY_53 Start: 33884, Stop: 33297, Start Num: 11

Candidate Starts for KADY_53:

(Start: 11 @33884 has 80 MA's), (Start: 12 @33878 has 1 MA's), (36, 33740), (40, 33731), (47, 33704), (48, 33701), (51, 33641), (52, 33620), (68, 33413), (74, 33365),

Gene: KFPoly_48 Start: 33382, Stop: 32843, Start Num: 18

Candidate Starts for KFPoly_48:

(Start: 7 @33439 has 1 MA's), (Start: 8 @33424 has 1 MA's), (Start: 18 @33382 has 137 MA's), (52, 33124), (57, 33091), (63, 33052), (76, 32884),

Gene: Kachowdy_50 Start: 33595, Stop: 33032, Start Num: 17

Candidate Starts for Kachowdy_50:

(Start: 7 @33652 has 1 MA's), (Start: 8 @33637 has 1 MA's), (Start: 9 @33625 has 17 MA's), (Start: 17 @33595 has 30 MA's), (30, 33526), (39, 33448), (46, 33415), (47, 33412), (52, 33328), (76, 33073),

Gene: Kalb97_54 Start: 33748, Stop: 33158, Start Num: 11

Candidate Starts for Kalb97_54:

(Start: 11 @33748 has 80 MA's), (Start: 12 @33742 has 1 MA's), (36, 33598), (40, 33589), (47, 33562), (52, 33478), (68, 33274), (74, 33226),

Gene: Kalnoky_54 Start: 33746, Stop: 33156, Start Num: 11

Candidate Starts for Kalnoky_54:

(Start: 11 @33746 has 80 MA's), (Start: 12 @33740 has 1 MA's), (36, 33596), (40, 33587), (47, 33560), (52, 33476), (68, 33272), (74, 33224),

Gene: Kampy_49 Start: 33390, Stop: 32851, Start Num: 18

Candidate Starts for Kampy_49:

(Start: 7 @33447 has 1 MA's), (Start: 8 @33432 has 1 MA's), (Start: 18 @33390 has 137 MA's), (52, 33132), (57, 33099), (63, 33060), (76, 32892),

Gene: Katalie136_48 Start: 33364, Stop: 32825, Start Num: 18

Candidate Starts for Katalie136_48:

(Start: 7 @33421 has 1 MA's), (Start: 8 @33406 has 1 MA's), (Start: 18 @33364 has 137 MA's), (52, 33106), (57, 33073), (63, 33034), (76, 32866),

Gene: KatherineG_55 Start: 33020, Stop: 32460, Start Num: 23

Candidate Starts for KatherineG_55:

(Start: 23 @33020 has 19 MA's), (26, 33014), (36, 32915), (43, 32888), (44, 32885), (53, 32774), (55, 32753), (57, 32744), (58, 32735), (77, 32516),

Gene: Kingmustik0402_49 Start: 33377, Stop: 32838, Start Num: 18

Candidate Starts for Kingmustik0402_49:

(Start: 7 @33434 has 1 MA's), (Start: 8 @33419 has 1 MA's), (Start: 18 @33377 has 137 MA's), (52, 33119), (57, 33086), (63, 33047), (76, 32879),

Gene: Koan_47 Start: 33388, Stop: 32849, Start Num: 18

Candidate Starts for Koan_47:

(Start: 7 @33445 has 1 MA's), (Start: 8 @33430 has 1 MA's), (Start: 18 @33388 has 137 MA's), (52, 33130), (57, 33097), (63, 33058), (76, 32890),

Gene: Koreni_48 Start: 33069, Stop: 32530, Start Num: 18

Candidate Starts for Koreni_48:

(Start: 7 @33126 has 1 MA's), (Start: 8 @33111 has 1 MA's), (Start: 18 @33069 has 137 MA's), (52, 32811), (57, 32778), (63, 32739), (76, 32571),

Gene: Kratak_49 Start: 33545, Stop: 33012, Start Num: 18

Candidate Starts for Kratak_49:

(Start: 18 @33545 has 137 MA's), (52, 33287), (57, 33254), (63, 33215), (76, 33053),

Gene: Kremtemulon_49 Start: 33336, Stop: 32800, Start Num: 18

Candidate Starts for Kremtemulon_49:

(Start: 7 @33393 has 1 MA's), (Start: 8 @33378 has 1 MA's), (Start: 18 @33336 has 137 MA's), (52, 33078), (57, 33045), (63, 33006), (76, 32841),

Gene: Krishelle_39 Start: 30158, Stop: 29634, Start Num: 28

Candidate Starts for Krishelle_39:

(Start: 28 @30158 has 36 MA's), (38, 30053), (68, 29741), (71, 29732), (72, 29723), (74, 29693),

Gene: Kyee_49 Start: 33386, Stop: 32847, Start Num: 18

Candidate Starts for Kyee_49:

(Start: 7 @33443 has 1 MA's), (Start: 8 @33428 has 1 MA's), (Start: 18 @33386 has 137 MA's), (52, 33128), (57, 33095), (63, 33056), (76, 32888),

Gene: LBerry_54 Start: 33860, Stop: 33270, Start Num: 11

Candidate Starts for LBerry_54:

(Start: 11 @33860 has 80 MA's), (Start: 12 @33854 has 1 MA's), (36, 33710), (40, 33701), (47, 33674), (52, 33590), (68, 33386), (74, 33338),

Gene: LHTSCC_51 Start: 33807, Stop: 33271, Start Num: 18

Candidate Starts for LHTSCC_51:

(6, 33870), (Start: 18 @33807 has 137 MA's), (52, 33549), (57, 33516), (63, 33477), (76, 33312),

Gene: Lambert1_49 Start: 33695, Stop: 33096, Start Num: 9

Candidate Starts for Lambert1_49:

(Start: 7 @33722 has 1 MA's), (Start: 8 @33707 has 1 MA's), (Start: 9 @33695 has 17 MA's), (Start: 17 @33665 has 30 MA's), (30, 33596), (39, 33518), (52, 33398), (76, 33137),

Gene: LappelDuVide_49 Start: 33387, Stop: 32848, Start Num: 18

Candidate Starts for LappelDuVide_49:

(Start: 7 @33444 has 1 MA's), (Start: 8 @33429 has 1 MA's), (Start: 18 @33387 has 137 MA's), (52, 33129), (57, 33096), (63, 33057), (76, 32889),

Gene: LarryKay_53 Start: 33886, Stop: 33299, Start Num: 11

Candidate Starts for LarryKay_53:

(Start: 11 @33886 has 80 MA's), (Start: 12 @33880 has 1 MA's), (36, 33742), (40, 33733), (47, 33706), (48, 33703), (51, 33643), (52, 33622), (68, 33415), (74, 33367),

Gene: LastResort_53 Start: 32534, Stop: 31992, Start Num: 23

Candidate Starts for LastResort_53:

(Start: 23 @32534 has 19 MA's), (26, 32528), (36, 32423), (43, 32396), (44, 32393), (53, 32282), (55, 32261), (57, 32252), (58, 32243), (67, 32096), (73, 32051),

Gene: Lemur_49 Start: 33385, Stop: 32846, Start Num: 18

Candidate Starts for Lemur_49:

(Start: 7 @33442 has 1 MA's), (Start: 8 @33427 has 1 MA's), (Start: 18 @33385 has 137 MA's), (52, 33127), (57, 33094), (63, 33055), (76, 32887),

Gene: LeoAvram_49 Start: 33388, Stop: 32849, Start Num: 18

Candidate Starts for LeoAvram_49:

(Start: 7 @33445 has 1 MA's), (Start: 8 @33430 has 1 MA's), (Start: 18 @33388 has 137 MA's), (52, 33130), (57, 33097), (63, 33058), (76, 32890),

Gene: Lilith_54 Start: 33849, Stop: 33259, Start Num: 11

Candidate Starts for Lilith_54:

(Start: 11 @33849 has 80 MA's), (Start: 12 @33843 has 1 MA's), (36, 33699), (40, 33690), (47, 33663), (52, 33579), (68, 33375), (74, 33327),

Gene: Lillie_39 Start: 29798, Stop: 29274, Start Num: 28

Candidate Starts for Lillie_39:

(Start: 28 @29798 has 36 MA's), (38, 29693), (68, 29381), (71, 29372), (72, 29363), (74, 29333),

Gene: LittleB_49 Start: 33389, Stop: 32850, Start Num: 18

Candidate Starts for LittleB_49:

(Start: 7 @33446 has 1 MA's), (Start: 8 @33431 has 1 MA's), (Start: 18 @33389 has 137 MA's), (52, 33131), (57, 33098), (63, 33059), (76, 32891),

Gene: LittleCherry_43 Start: 32555, Stop: 32028, Start Num: 17

Candidate Starts for LittleCherry_43:

(Start: 17 @32555 has 30 MA's), (37, 32420), (39, 32414), (59, 32270), (78, 32069), (79, 32051),

Gene: LittleGuy_49 Start: 33284, Stop: 32745, Start Num: 18

Candidate Starts for LittleGuy_49:

(Start: 7 @33341 has 1 MA's), (Start: 8 @33326 has 1 MA's), (Start: 18 @33284 has 137 MA's), (52, 33026), (57, 32993), (63, 32954), (76, 32786),

Gene: LochMonster_50 Start: 33624, Stop: 33085, Start Num: 18

Candidate Starts for LochMonster_50:

(Start: 7 @33681 has 1 MA's), (Start: 8 @33666 has 1 MA's), (Start: 18 @33624 has 137 MA's), (52, 33366), (57, 33333), (63, 33294), (76, 33126),

Gene: Looper_54 Start: 32511, Stop: 31969, Start Num: 23

Candidate Starts for Looper_54:

(Start: 23 @32511 has 19 MA's), (26, 32505), (36, 32400), (43, 32373), (44, 32370), (53, 32259), (55, 32238), (57, 32229), (58, 32220), (67, 32073), (73, 32028),

Gene: Lorenzo_49 Start: 33388, Stop: 32849, Start Num: 18

Candidate Starts for Lorenzo_49:

(Start: 7 @33445 has 1 MA's), (Start: 8 @33430 has 1 MA's), (Start: 18 @33388 has 137 MA's), (52, 33130), (57, 33097), (63, 33058), (76, 32890),

Gene: Louie6_52 Start: 33885, Stop: 33298, Start Num: 11

Candidate Starts for Louie6_52:

(Start: 11 @33885 has 80 MA's), (Start: 12 @33879 has 1 MA's), (36, 33741), (40, 33732), (47, 33705), (48, 33702), (51, 33642), (52, 33621), (68, 33414), (74, 33366),

Gene: Lowa_53 Start: 33848, Stop: 33258, Start Num: 11

Candidate Starts for Lowa_53:

(Start: 11 @33848 has 80 MA's), (Start: 12 @33842 has 1 MA's), (36, 33698), (40, 33689), (47, 33662), (52, 33578), (68, 33374), (74, 33326),

Gene: Lucivia_51 Start: 33320, Stop: 32751, Start Num: 20

Candidate Starts for Lucivia_51:

(Start: 20 @33320 has 25 MA's), (38, 33185), (61, 33020), (68, 32864),

Gene: LugYA_56 Start: 33857, Stop: 33267, Start Num: 11

Candidate Starts for LugYA_56:

(Start: 11 @33857 has 80 MA's), (Start: 12 @33851 has 1 MA's), (36, 33707), (40, 33698), (47, 33671), (52, 33587), (68, 33383), (74, 33335),

Gene: Lunsford_50 Start: 33382, Stop: 32843, Start Num: 18

Candidate Starts for Lunsford_50:

(Start: 7 @33439 has 1 MA's), (Start: 8 @33424 has 1 MA's), (Start: 18 @33382 has 137 MA's), (52, 33124), (57, 33091), (63, 33052), (76, 32884),

Gene: MA5_50 Start: 33050, Stop: 32487, Start Num: 18

Candidate Starts for MA5_50:

(Start: 7 @33107 has 1 MA's), (Start: 8 @33092 has 1 MA's), (Start: 18 @33050 has 137 MA's), (30, 32981), (39, 32903), (47, 32867), (52, 32783), (76, 32528),

Gene: MaCh_51 Start: 33250, Stop: 32684, Start Num: 20

Candidate Starts for MaCh_51:

(Start: 20 @33250 has 25 MA's), (45, 33097), (61, 32956), (68, 32797),

Gene: Mabel_50 Start: 32855, Stop: 32286, Start Num: 20

Candidate Starts for Mabel_50:

(Start: 20 @32855 has 25 MA's), (38, 32720), (61, 32555), (68, 32399),

Gene: MadMarie_53 Start: 33858, Stop: 33268, Start Num: 11

Candidate Starts for MadMarie_53:

(Start: 11 @33858 has 80 MA's), (Start: 12 @33852 has 1 MA's), (36, 33708), (40, 33699), (47, 33672), (52, 33588), (68, 33384), (74, 33336),

Gene: Mainiac_53 Start: 33850, Stop: 33260, Start Num: 11

Candidate Starts for Mainiac_53:

(Start: 11 @33850 has 80 MA's), (Start: 12 @33844 has 1 MA's), (36, 33700), (40, 33691), (47, 33664), (52, 33580), (68, 33376), (74, 33328),

Gene: Malinsilva_55 Start: 33848, Stop: 33258, Start Num: 11

Candidate Starts for Malinsilva_55:

(Start: 11 @33848 has 80 MA's), (Start: 12 @33842 has 1 MA's), (36, 33698), (40, 33689), (47, 33662), (52, 33578), (68, 33374), (74, 33326),

Gene: Manu_53 Start: 33749, Stop: 33159, Start Num: 11

Candidate Starts for Manu_53:

(Start: 11 @33749 has 80 MA's), (Start: 12 @33743 has 1 MA's), (36, 33599), (40, 33590), (47, 33563), (52, 33479), (68, 33275), (74, 33227),

Gene: MarQuardt_53 Start: 33858, Stop: 33268, Start Num: 11

Candidate Starts for MarQuardt_53:

(Start: 11 @33858 has 80 MA's), (Start: 12 @33852 has 1 MA's), (36, 33708), (40, 33699), (47, 33672), (52, 33588), (68, 33384), (74, 33336),

Gene: Marchesa_50 Start: 33581, Stop: 33030, Start Num: 17

Candidate Starts for Marchesa_50:

(Start: 7 @33638 has 1 MA's), (Start: 8 @33623 has 1 MA's), (Start: 9 @33611 has 17 MA's), (Start: 17 @33581 has 30 MA's), (30, 33512), (39, 33434), (47, 33398), (52, 33314), (76, 33071),

Gene: Margo_49 Start: 33721, Stop: 33122, Start Num: 9

Candidate Starts for Margo_49:

(Start: 7 @33748 has 1 MA's), (Start: 8 @33733 has 1 MA's), (Start: 9 @33721 has 17 MA's), (Start: 17 @33691 has 30 MA's), (30, 33622), (39, 33544), (52, 33424), (76, 33163),

Gene: Marie_53 Start: 33856, Stop: 33266, Start Num: 11

Candidate Starts for Marie_53:

(Start: 11 @33856 has 80 MA's), (Start: 12 @33850 has 1 MA's), (36, 33706), (40, 33697), (47, 33670), (52, 33586), (68, 33382), (74, 33334),

Gene: Marius_54 Start: 33746, Stop: 33156, Start Num: 11

Candidate Starts for Marius_54:

(Start: 11 @33746 has 80 MA's), (Start: 12 @33740 has 1 MA's), (36, 33596), (40, 33587), (47, 33560), (52, 33476), (68, 33272), (74, 33224),

Gene: Maverick_49 Start: 33388, Stop: 32849, Start Num: 18

Candidate Starts for Maverick_49:

(Start: 7 @33445 has 1 MA's), (Start: 8 @33430 has 1 MA's), (Start: 18 @33388 has 137 MA's), (52, 33130), (57, 33097), (63, 33058), (76, 32890),

Gene: Maxo_50 Start: 33390, Stop: 32851, Start Num: 18

Candidate Starts for Maxo_50:

(Start: 7 @33447 has 1 MA's), (Start: 8 @33432 has 1 MA's), (Start: 18 @33390 has 137 MA's), (52, 33132), (57, 33099), (63, 33060), (76, 32892),

Gene: Mayonnaise_49 Start: 33388, Stop: 32849, Start Num: 18

Candidate Starts for Mayonnaise_49:

(Start: 7 @33445 has 1 MA's), (Start: 8 @33430 has 1 MA's), (Start: 18 @33388 has 137 MA's), (52, 33130), (57, 33097), (63, 33058), (76, 32890),

Gene: Mazhar510_49 Start: 33389, Stop: 32850, Start Num: 18

Candidate Starts for Mazhar510_49:

(Start: 7 @33446 has 1 MA's), (Start: 8 @33431 has 1 MA's), (Start: 18 @33389 has 137 MA's), (52, 33131), (57, 33098), (63, 33059), (76, 32891),

Gene: Medusa_49 Start: 33387, Stop: 32848, Start Num: 18

Candidate Starts for Medusa_49:

(Start: 7 @33444 has 1 MA's), (Start: 8 @33429 has 1 MA's), (Start: 18 @33387 has 137 MA's), (52, 33129), (57, 33096), (63, 33057), (76, 32889),

Gene: MeeZee_49 Start: 33385, Stop: 32846, Start Num: 18

Candidate Starts for MeeZee_49:

(Start: 7 @33442 has 1 MA's), (Start: 8 @33427 has 1 MA's), (Start: 18 @33385 has 137 MA's), (52, 33127), (57, 33094), (63, 33055), (76, 32887),

Gene: Melvin_51 Start: 33383, Stop: 32844, Start Num: 18

Candidate Starts for Melvin_51:

(Start: 7 @33440 has 1 MA's), (Start: 8 @33425 has 1 MA's), (Start: 18 @33383 has 137 MA's), (52, 33125), (57, 33092), (63, 33053), (76, 32885),

Gene: Methuselah_49 Start: 33880, Stop: 33293, Start Num: 11

Candidate Starts for Methuselah_49:

(Start: 11 @33880 has 80 MA's), (Start: 12 @33874 has 1 MA's), (36, 33736), (40, 33727), (47, 33700), (48, 33697), (51, 33637), (52, 33616), (68, 33409), (74, 33361),

Gene: Micasa_44 Start: 32684, Stop: 32157, Start Num: 17

Candidate Starts for Micasa_44:

(Start: 17 @32684 has 30 MA's), (37, 32549), (39, 32543), (59, 32399), (79, 32180),

Gene: Microwolf_53 Start: 33872, Stop: 33267, Start Num: 11

Candidate Starts for Microwolf_53:

(Start: 11 @33872 has 80 MA's), (Start: 12 @33866 has 1 MA's), (36, 33722), (40, 33713), (47, 33686), (52, 33602), (68, 33383), (74, 33335),

Gene: Milcery_43 Start: 32512, Stop: 31985, Start Num: 17

Candidate Starts for Milcery_43:

(Start: 17 @32512 has 30 MA's), (37, 32377), (39, 32371), (59, 32227), (79, 32008),

Gene: Millski_48 Start: 33389, Stop: 32850, Start Num: 18

Candidate Starts for Millski_48:

(Start: 7 @33446 has 1 MA's), (Start: 8 @33431 has 1 MA's), (Start: 18 @33389 has 137 MA's), (52, 33131), (57, 33098), (63, 33059), (76, 32891),

Gene: MinecraftSteve_55 Start: 32820, Stop: 32260, Start Num: 23

Candidate Starts for MinecraftSteve_55:

(Start: 23 @32820 has 19 MA's), (26, 32814), (36, 32715), (43, 32688), (44, 32685), (53, 32574), (55, 32553), (57, 32544), (58, 32535), (77, 32316),

Gene: Miramae_47 Start: 32831, Stop: 32283, Start Num: 18

Candidate Starts for Miramae_47:

(Start: 18 @32831 has 137 MA's), (40, 32684), (57, 32534), (69, 32372), (76, 32324),

Gene: Misomonster_54 Start: 33883, Stop: 33296, Start Num: 11

Candidate Starts for Misomonster_54:

(Start: 11 @33883 has 80 MA's), (Start: 12 @33877 has 1 MA's), (36, 33739), (40, 33730), (47, 33703), (48, 33700), (51, 33640), (52, 33619), (68, 33412), (74, 33364),

Gene: MoneyMay_53 Start: 33856, Stop: 33266, Start Num: 11

Candidate Starts for MoneyMay_53:

(Start: 11 @33856 has 80 MA's), (Start: 12 @33850 has 1 MA's), (36, 33706), (40, 33697), (47, 33670), (52, 33586), (68, 33382), (74, 33334),

Gene: Morpher26_48 Start: 33385, Stop: 32846, Start Num: 18

Candidate Starts for Morpher26_48:

(Start: 7 @33442 has 1 MA's), (Start: 8 @33427 has 1 MA's), (Start: 18 @33385 has 137 MA's), (52, 33127), (57, 33094), (63, 33055), (76, 32887),

Gene: Morrow_50 Start: 33394, Stop: 32855, Start Num: 18

Candidate Starts for Morrow_50:

(Start: 7 @33451 has 1 MA's), (Start: 8 @33436 has 1 MA's), (Start: 18 @33394 has 137 MA's), (52, 33136), (57, 33103), (63, 33064), (76, 32896),

Gene: MuchMore_56 Start: 33848, Stop: 33258, Start Num: 11

Candidate Starts for MuchMore_56:

(Start: 11 @33848 has 80 MA's), (Start: 12 @33842 has 1 MA's), (36, 33698), (40, 33689), (47, 33662), (52, 33578), (68, 33374), (74, 33326),

Gene: Mulciber_50 Start: 32811, Stop: 32248, Start Num: 20

Candidate Starts for Mulciber_50:

(Start: 20 @32811 has 25 MA's), (38, 32682), (61, 32517), (68, 32361),

Gene: Munch_51 Start: 33271, Stop: 32702, Start Num: 20

Candidate Starts for Munch_51:

(Start: 20 @33271 has 25 MA's), (38, 33136), (61, 32971), (68, 32815),

Gene: Mundrea_48 Start: 33386, Stop: 32841, Start Num: 18

Candidate Starts for Mundrea_48:

(Start: 18 @33386 has 137 MA's), (40, 33239), (51, 33146), (57, 33089), (76, 32882),

Gene: MyraDee_43 Start: 29930, Stop: 29361, Start Num: 16

Candidate Starts for MyraDee_43:

(Start: 16 @29930 has 1 MA's), (19, 29924), (49, 29705), (55, 29642), (57, 29633), (63, 29594), (68, 29465), (72, 29447),

Gene: Naca_44 Start: 32823, Stop: 32299, Start Num: 17

Candidate Starts for Naca_44:

(Start: 17 @32823 has 30 MA's), (37, 32691), (39, 32685), (59, 32541),

Gene: Naiad_39 Start: 29811, Stop: 29287, Start Num: 28

Candidate Starts for Naiad_39:

(Start: 28 @29811 has 36 MA's), (38, 29706), (68, 29394), (71, 29385), (72, 29376), (74, 29346),

Gene: Nancinator_39 Start: 29797, Stop: 29273, Start Num: 28

Candidate Starts for Nancinator_39:

(Start: 28 @29797 has 36 MA's), (38, 29692), (68, 29380), (71, 29371), (72, 29362), (74, 29332),

Gene: Natosaleda_39 Start: 29796, Stop: 29272, Start Num: 28

Candidate Starts for Natosaleda_39:

(Start: 28 @29796 has 36 MA's), (38, 29691), (68, 29379), (71, 29370), (72, 29361), (74, 29331),

Gene: Nebs_50 Start: 33388, Stop: 32849, Start Num: 18

Candidate Starts for Nebs_50:

(Start: 7 @33445 has 1 MA's), (Start: 8 @33430 has 1 MA's), (Start: 18 @33388 has 137 MA's), (52, 33130), (57, 33097), (63, 33058), (76, 32890),

Gene: Nebulosus_53 Start: 32530, Stop: 31988, Start Num: 23

Candidate Starts for Nebulosus_53:

(Start: 23 @32530 has 19 MA's), (26, 32524), (36, 32419), (43, 32392), (44, 32389), (53, 32278), (55, 32257), (57, 32248), (58, 32239), (67, 32092), (73, 32047),

Gene: Nedarya_49 Start: 31962, Stop: 31435, Start Num: 22

Candidate Starts for Nedarya_49:

(Start: 22 @31962 has 1 MA's), (33, 31896), (35, 31854), (36, 31848), (57, 31689), (67, 31542), (73, 31494),

Gene: Nemo27_49 Start: 33387, Stop: 32848, Start Num: 18

Candidate Starts for Nemo27_49:

(Start: 7 @33444 has 1 MA's), (Start: 8 @33429 has 1 MA's), (Start: 18 @33387 has 137 MA's), (52, 33129), (57, 33096), (63, 33057), (76, 32889),

Gene: Noella_49 Start: 33696, Stop: 33097, Start Num: 9

Candidate Starts for Noella_49:

(Start: 7 @33723 has 1 MA's), (Start: 8 @33708 has 1 MA's), (Start: 9 @33696 has 17 MA's), (Start: 17 @33666 has 30 MA's), (30, 33597), (39, 33519), (52, 33399), (76, 33138),

Gene: Noelle_49 Start: 33677, Stop: 33135, Start Num: 18

Candidate Starts for Noelle_49:

(Start: 7 @33734 has 1 MA's), (Start: 8 @33719 has 1 MA's), (Start: 18 @33677 has 137 MA's), (57, 33383), (63, 33344), (76, 33176),

Gene: Norbert_48 Start: 33695, Stop: 33096, Start Num: 9

Candidate Starts for Norbert_48:

(Start: 7 @33722 has 1 MA's), (Start: 8 @33707 has 1 MA's), (Start: 9 @33695 has 17 MA's), (Start: 17 @33665 has 30 MA's), (30, 33596), (39, 33518), (52, 33398), (76, 33137),

Gene: NorthStar_48 Start: 33388, Stop: 32849, Start Num: 18

Candidate Starts for NorthStar_48:

(Start: 7 @33445 has 1 MA's), (Start: 8 @33430 has 1 MA's), (Start: 18 @33388 has 137 MA's), (52, 33130), (57, 33097), (63, 33058), (76, 32890),

Gene: NotAPhaseMom_49 Start: 33392, Stop: 32853, Start Num: 18

Candidate Starts for NotAPhaseMom_49:

(Start: 7 @33449 has 1 MA's), (Start: 8 @33434 has 1 MA's), (Start: 18 @33392 has 137 MA's), (52, 33134), (57, 33101), (63, 33062), (76, 32894),

Gene: Nyxis_49 Start: 33278, Stop: 32739, Start Num: 18

Candidate Starts for Nyxis_49:

(Start: 7 @33335 has 1 MA's), (Start: 8 @33320 has 1 MA's), (Start: 18 @33278 has 137 MA's), (52, 33020), (57, 32987), (63, 32948), (76, 32780),

Gene: OKaNui_49 Start: 33438, Stop: 32899, Start Num: 18

Candidate Starts for OKaNui_49:

(Start: 7 @33495 has 1 MA's), (Start: 8 @33480 has 1 MA's), (Start: 18 @33438 has 137 MA's), (52, 33180), (57, 33147), (63, 33108), (76, 32940),

Gene: Obama12_50 Start: 33809, Stop: 33273, Start Num: 18

Candidate Starts for Obama12_50:

(6, 33872), (Start: 18 @33809 has 137 MA's), (52, 33551), (57, 33518), (63, 33479), (76, 33314),

Gene: Ohfah_50 Start: 33388, Stop: 32849, Start Num: 18

Candidate Starts for Ohfah_50:

(Start: 7 @33445 has 1 MA's), (Start: 8 @33430 has 1 MA's), (Start: 18 @33388 has 137 MA's), (52, 33130), (57, 33097), (63, 33058), (76, 32890),

Gene: OlanP_52 Start: 33922, Stop: 33329, Start Num: 11

Candidate Starts for OlanP_52:

(Start: 11 @33922 has 80 MA's), (Start: 12 @33916 has 1 MA's), (36, 33769), (40, 33760), (52, 33649), (68, 33445), (74, 33397),

Gene: Ollie_53 Start: 33727, Stop: 33137, Start Num: 11

Candidate Starts for Ollie_53:

(Start: 11 @33727 has 80 MA's), (Start: 12 @33721 has 1 MA's), (36, 33577), (40, 33568), (47, 33541), (52, 33457), (68, 33253), (74, 33205),

Gene: Oofda_55 Start: 32610, Stop: 32080, Start Num: 23

Candidate Starts for Oofda_55:

(Start: 23 @32610 has 19 MA's), (26, 32604), (33, 32544), (51, 32385), (52, 32367), (57, 32340), (67, 32184), (73, 32139),

Gene: Orange_50 Start: 32820, Stop: 32251, Start Num: 20

Candidate Starts for Orange_50:

(Start: 20 @32820 has 25 MA's), (38, 32685), (61, 32520), (68, 32364),

Gene: P28Green_54 Start: 33859, Stop: 33269, Start Num: 11

Candidate Starts for P28Green_54:

(Start: 11 @33859 has 80 MA's), (Start: 12 @33853 has 1 MA's), (36, 33709), (40, 33700), (47, 33673), (52, 33589), (68, 33385), (74, 33337),

Gene: PGHhamlin_55 Start: 33848, Stop: 33258, Start Num: 11

Candidate Starts for PGHhamlin_55:

(Start: 11 @33848 has 80 MA's), (Start: 12 @33842 has 1 MA's), (36, 33698), (40, 33689), (47, 33662), (52, 33578), (68, 33374), (74, 33326),

Gene: Palestino_48 Start: 33388, Stop: 32849, Start Num: 18

Candidate Starts for Palestino_48:

(Start: 7 @33445 has 1 MA's), (Start: 8 @33430 has 1 MA's), (Start: 18 @33388 has 137 MA's), (52, 33130), (57, 33097), (63, 33058), (76, 32890),

Gene: Panamaxus_47 Start: 33665, Stop: 33096, Start Num: 17

Candidate Starts for Panamaxus_47:

(Start: 7 @33722 has 1 MA's), (Start: 8 @33707 has 1 MA's), (Start: 9 @33695 has 17 MA's), (Start: 17 @33665 has 30 MA's), (30, 33596), (39, 33518), (52, 33398), (76, 33137),

Gene: Partridge_39 Start: 29958, Stop: 29434, Start Num: 28

Candidate Starts for Partridge_39:

(Start: 28 @29958 has 36 MA's), (38, 29853), (68, 29541), (71, 29532), (72, 29523), (74, 29493),

Gene: Pawn_53 Start: 33753, Stop: 33163, Start Num: 11

Candidate Starts for Pawn_53:

(Start: 11 @33753 has 80 MA's), (Start: 12 @33747 has 1 MA's), (36, 33603), (40, 33594), (47, 33567), (52, 33483), (68, 33279), (74, 33231),

Gene: Peaches_49 Start: 33387, Stop: 32848, Start Num: 18

Candidate Starts for Peaches_49:

(Start: 7 @33444 has 1 MA's), (Start: 8 @33429 has 1 MA's), (Start: 18 @33387 has 137 MA's), (52, 33129), (57, 33096), (63, 33057), (76, 32889),

Gene: Pembroke_53 Start: 33857, Stop: 33267, Start Num: 11
Candidate Starts for Pembroke_53:
(Start: 11 @33857 has 80 MA's), (Start: 12 @33851 has 1 MA's), (36, 33707), (40, 33698), (47, 33671),
(52, 33587), (68, 33383), (74, 33335),

Gene: Penny1_54 Start: 33860, Stop: 33270, Start Num: 11
Candidate Starts for Penny1_54:
(Start: 11 @33860 has 80 MA's), (Start: 12 @33854 has 1 MA's), (36, 33710), (40, 33701), (47, 33674),
(52, 33590), (68, 33386), (74, 33338),

Gene: Perplexer_48 Start: 33361, Stop: 32822, Start Num: 18
Candidate Starts for Perplexer_48:
(Start: 7 @33418 has 1 MA's), (Start: 8 @33403 has 1 MA's), (Start: 18 @33361 has 137 MA's), (52,
33103), (57, 33070), (63, 33031), (76, 32863),

Gene: PeterPeter_49 Start: 33385, Stop: 32846, Start Num: 18
Candidate Starts for PeterPeter_49:
(Start: 7 @33442 has 1 MA's), (Start: 8 @33427 has 1 MA's), (Start: 18 @33385 has 137 MA's), (52,
33127), (57, 33094), (63, 33055), (76, 32887),

Gene: Petersenfast_49 Start: 32822, Stop: 32253, Start Num: 20
Candidate Starts for Petersenfast_49:
(Start: 20 @32822 has 25 MA's), (38, 32687), (61, 32522), (68, 32366),

Gene: PetiteSangsue_48 Start: 33364, Stop: 32825, Start Num: 18
Candidate Starts for PetiteSangsue_48:
(Start: 7 @33421 has 1 MA's), (Start: 8 @33406 has 1 MA's), (Start: 18 @33364 has 137 MA's), (52,
33106), (57, 33073), (63, 33034), (76, 32866),

Gene: PetterN_46 Start: 32243, Stop: 31719, Start Num: 17
Candidate Starts for PetterN_46:
(Start: 17 @32243 has 30 MA's), (37, 32111), (39, 32105), (59, 31961),

Gene: Phacado_49 Start: 33387, Stop: 32848, Start Num: 18
Candidate Starts for Phacado_49:
(Start: 7 @33444 has 1 MA's), (Start: 8 @33429 has 1 MA's), (Start: 18 @33387 has 137 MA's), (52,
33129), (57, 33096), (63, 33057), (76, 32889),

Gene: PhailMary_38 Start: 30120, Stop: 29596, Start Num: 28
Candidate Starts for PhailMary_38:
(Start: 28 @30120 has 36 MA's), (38, 30015), (68, 29703), (71, 29694), (72, 29685), (74, 29655),

Gene: Phelipe_50 Start: 33388, Stop: 32849, Start Num: 18
Candidate Starts for Phelipe_50:
(Start: 7 @33445 has 1 MA's), (Start: 8 @33430 has 1 MA's), (Start: 18 @33388 has 137 MA's), (52,
33130), (57, 33097), (63, 33058), (76, 32890),

Gene: Phighter1804_49 Start: 33451, Stop: 32915, Start Num: 18
Candidate Starts for Phighter1804_49:
(Start: 18 @33451 has 137 MA's), (52, 33193), (57, 33160), (63, 33121), (76, 32956),

Gene: PhishRPhriends_51 Start: 32930, Stop: 32337, Start Num: 11
Candidate Starts for PhishRPhriends_51:

(Start: 11 @32930 has 80 MA's), (Start: 12 @32924 has 1 MA's), (36, 32777), (40, 32768), (47, 32741), (52, 32657), (68, 32453), (74, 32405),

Gene: Phlei_39 Start: 33153, Stop: 32638, Start Num: 27

Candidate Starts for Phlei_39:

(15, 33195), (21, 33180), (27, 33153), (29, 33132), (34, 33078), (42, 33045), (43, 33042), (46, 33021), (51, 32955), (55, 32922), (56, 32919), (58, 32907), (60, 32901), (66, 32832), (68, 32751), (74, 32703),

Gene: Phlorence_41 Start: 32083, Stop: 31556, Start Num: 17

Candidate Starts for Phlorence_41:

(Start: 17 @32083 has 30 MA's), (37, 31948), (39, 31942), (59, 31798), (79, 31579),

Gene: Phoebe_54 Start: 33849, Stop: 33259, Start Num: 11

Candidate Starts for Phoebe_54:

(Start: 11 @33849 has 80 MA's), (Start: 12 @33843 has 1 MA's), (36, 33699), (40, 33690), (47, 33663), (52, 33579), (68, 33375), (74, 33327),

Gene: Phontbonne_49 Start: 33279, Stop: 32740, Start Num: 18

Candidate Starts for Phontbonne_49:

(Start: 7 @33336 has 1 MA's), (Start: 8 @33321 has 1 MA's), (Start: 18 @33279 has 137 MA's), (52, 33021), (57, 32988), (63, 32949), (76, 32781),

Gene: Phoxy_53 Start: 33881, Stop: 33294, Start Num: 11

Candidate Starts for Phoxy_53:

(Start: 11 @33881 has 80 MA's), (Start: 12 @33875 has 1 MA's), (36, 33737), (40, 33728), (47, 33701), (48, 33698), (51, 33638), (52, 33617), (68, 33410), (74, 33362),

Gene: Phrankenstein_39 Start: 29744, Stop: 29220, Start Num: 28

Candidate Starts for Phrankenstein_39:

(Start: 28 @29744 has 36 MA's), (38, 29639), (68, 29327), (71, 29318), (72, 29309), (74, 29279),

Gene: Phranny_54 Start: 33735, Stop: 33145, Start Num: 11

Candidate Starts for Phranny_54:

(Start: 11 @33735 has 80 MA's), (Start: 12 @33729 has 1 MA's), (36, 33585), (40, 33576), (47, 33549), (52, 33465), (68, 33261), (74, 33213),

Gene: PickleBack_42 Start: 32212, Stop: 31688, Start Num: 17

Candidate Starts for PickleBack_42:

(Start: 17 @32212 has 30 MA's), (37, 32080), (39, 32074), (59, 31930), (79, 31711),

Gene: Pipcraft_47 Start: 33388, Stop: 32849, Start Num: 18

Candidate Starts for Pipcraft_47:

(Start: 7 @33445 has 1 MA's), (Start: 8 @33430 has 1 MA's), (Start: 18 @33388 has 137 MA's), (52, 33130), (57, 33097), (63, 33058), (76, 32890),

Gene: Pistachio_52 Start: 33268, Stop: 32705, Start Num: 17

Candidate Starts for Pistachio_52:

(Start: 7 @33325 has 1 MA's), (Start: 8 @33310 has 1 MA's), (Start: 9 @33298 has 17 MA's), (Start: 17 @33268 has 30 MA's), (30, 33199), (39, 33121), (47, 33085), (52, 33001), (76, 32746),

Gene: Pocahontas_49 Start: 33692, Stop: 33093, Start Num: 9

Candidate Starts for Pocahontas_49:

(Start: 7 @33719 has 1 MA's), (Start: 8 @33704 has 1 MA's), (Start: 9 @33692 has 17 MA's), (Start: 17 @33662 has 30 MA's), (30, 33593), (39, 33515), (52, 33395), (76, 33134),

Gene: Polymorphads_50 Start: 33381, Stop: 32842, Start Num: 18

Candidate Starts for Polymorphads_50:

(Start: 7 @33438 has 1 MA's), (Start: 8 @33423 has 1 MA's), (Start: 18 @33381 has 137 MA's), (52, 33123), (57, 33090), (63, 33051), (76, 32883),

Gene: Popcicle_49 Start: 33662, Stop: 33093, Start Num: 17

Candidate Starts for Popcicle_49:

(Start: 7 @33719 has 1 MA's), (Start: 8 @33704 has 1 MA's), (Start: 9 @33692 has 17 MA's), (Start: 17 @33662 has 30 MA's), (30, 33593), (39, 33515), (52, 33395), (76, 33134),

Gene: PotatoSplit_55 Start: 33860, Stop: 33270, Start Num: 11

Candidate Starts for PotatoSplit_55:

(Start: 11 @33860 has 80 MA's), (Start: 12 @33854 has 1 MA's), (36, 33710), (40, 33701), (47, 33674), (52, 33590), (68, 33386), (74, 33338),

Gene: Priamo_54 Start: 32522, Stop: 31971, Start Num: 20

Candidate Starts for Priamo_54:

(14, 32537), (Start: 20 @32522 has 25 MA's), (49, 32312), (50, 32309), (57, 32246), (58, 32237), (68, 32081), (70, 32078),

Gene: Prinash11_43 Start: 32375, Stop: 31848, Start Num: 17

Candidate Starts for Prinash11_43:

(Start: 17 @32375 has 30 MA's), (37, 32240), (39, 32234), (59, 32090), (79, 31871),

Gene: Pumbaa_49 Start: 33333, Stop: 32794, Start Num: 18

Candidate Starts for Pumbaa_49:

(Start: 7 @33390 has 1 MA's), (Start: 8 @33375 has 1 MA's), (Start: 18 @33333 has 137 MA's), (52, 33075), (57, 33042), (63, 33003), (76, 32835),

Gene: Puppy_52 Start: 33370, Stop: 32777, Start Num: 9

Candidate Starts for Puppy_52:

(Start: 7 @33397 has 1 MA's), (Start: 8 @33382 has 1 MA's), (Start: 9 @33370 has 17 MA's), (Start: 17 @33340 has 30 MA's), (30, 33271), (39, 33193), (47, 33157), (52, 33073), (76, 32818),

Gene: PurpleHaze_53 Start: 33748, Stop: 33158, Start Num: 11

Candidate Starts for PurpleHaze_53:

(Start: 11 @33748 has 80 MA's), (Start: 12 @33742 has 1 MA's), (36, 33598), (40, 33589), (47, 33562), (52, 33478), (68, 33274), (74, 33226),

Gene: QuinnKiro_48 Start: 33695, Stop: 33096, Start Num: 9

Candidate Starts for QuinnKiro_48:

(Start: 7 @33722 has 1 MA's), (Start: 8 @33707 has 1 MA's), (Start: 9 @33695 has 17 MA's), (Start: 17 @33665 has 30 MA's), (30, 33596), (39, 33518), (52, 33398), (76, 33137),

Gene: RER2_32 Start: 26670, Stop: 26146, Start Num: 28

Candidate Starts for RER2_32:

(Start: 28 @26670 has 36 MA's), (38, 26565), (68, 26253), (71, 26244), (72, 26235), (74, 26205),

Gene: RGL3_34 Start: 27554, Stop: 27051, Start Num: 28

Candidate Starts for RGL3_34:

(21, 27584), (Start: 28 @27554 has 36 MA's), (37, 27464), (68, 27158), (71, 27149), (74, 27110),

Gene: Rasputin_39 Start: 29768, Stop: 29244, Start Num: 28

Candidate Starts for Rasputin_39:

(Start: 28 @29768 has 36 MA's), (38, 29663), (68, 29351), (71, 29342), (72, 29333), (74, 29303),

Gene: ReMo_53 Start: 32531, Stop: 31989, Start Num: 23

Candidate Starts for ReMo_53:

(Start: 23 @32531 has 19 MA's), (26, 32525), (36, 32420), (43, 32393), (44, 32390), (53, 32279), (55, 32258), (57, 32249), (58, 32240), (67, 32093), (73, 32048),

Gene: Reba_53 Start: 33408, Stop: 32818, Start Num: 11

Candidate Starts for Reba_53:

(Start: 11 @33408 has 80 MA's), (Start: 12 @33402 has 1 MA's), (36, 33258), (40, 33249), (47, 33222), (52, 33138), (68, 32934), (74, 32886),

Gene: Relief_48 Start: 33385, Stop: 32846, Start Num: 18

Candidate Starts for Relief_48:

(Start: 7 @33442 has 1 MA's), (Start: 8 @33427 has 1 MA's), (Start: 18 @33385 has 137 MA's), (52, 33127), (57, 33094), (63, 33055), (76, 32887),

Gene: Remus_54 Start: 32444, Stop: 31914, Start Num: 23

Candidate Starts for Remus_54:

(Start: 23 @32444 has 19 MA's), (26, 32438), (33, 32378), (51, 32219), (52, 32201), (57, 32174), (67, 32018), (73, 31973),

Gene: ResDef_49 Start: 33695, Stop: 33096, Start Num: 9

Candidate Starts for ResDef_49:

(Start: 7 @33722 has 1 MA's), (Start: 8 @33707 has 1 MA's), (Start: 9 @33695 has 17 MA's), (Start: 17 @33665 has 30 MA's), (30, 33596), (39, 33518), (52, 33398), (76, 33137),

Gene: RexFury_39 Start: 29829, Stop: 29305, Start Num: 28

Candidate Starts for RexFury_39:

(Start: 28 @29829 has 36 MA's), (38, 29724), (68, 29412), (71, 29403), (72, 29394), (74, 29364),

Gene: Rhodalysa_39 Start: 29798, Stop: 29274, Start Num: 28

Candidate Starts for Rhodalysa_39:

(Start: 28 @29798 has 36 MA's), (38, 29693), (68, 29381), (71, 29372), (72, 29363), (74, 29333),

Gene: Romney_49 Start: 33385, Stop: 32846, Start Num: 18

Candidate Starts for Romney_49:

(Start: 7 @33442 has 1 MA's), (Start: 8 @33427 has 1 MA's), (Start: 18 @33385 has 137 MA's), (52, 33127), (57, 33094), (63, 33055), (76, 32887),

Gene: Roosevelt_48 Start: 33390, Stop: 32851, Start Num: 18

Candidate Starts for Roosevelt_48:

(Start: 7 @33447 has 1 MA's), (Start: 8 @33432 has 1 MA's), (Start: 18 @33390 has 137 MA's), (52, 33132), (57, 33099), (63, 33060), (76, 32892),

Gene: Rosa24_48 Start: 33416, Stop: 32880, Start Num: 18

Candidate Starts for Rosa24_48:

(Start: 7 @33473 has 1 MA's), (Start: 8 @33458 has 1 MA's), (Start: 18 @33416 has 137 MA's), (52, 33158), (57, 33125), (63, 33086), (76, 32921),

Gene: Rosalind_53 Start: 32742, Stop: 32176, Start Num: 23

Candidate Starts for Rosalind_53:

(Start: 23 @32742 has 19 MA's), (26, 32736), (36, 32631), (43, 32604), (44, 32601), (53, 32490), (55, 32469), (57, 32460), (58, 32451), (77, 32232),

Gene: Ruin_49 Start: 33381, Stop: 32842, Start Num: 18

Candidate Starts for Ruin_49:

(Start: 7 @33438 has 1 MA's), (Start: 8 @33423 has 1 MA's), (Start: 18 @33381 has 137 MA's), (52, 33123), (57, 33090), (63, 33051), (76, 32883),

Gene: Rummer_52 Start: 33884, Stop: 33297, Start Num: 11

Candidate Starts for Rummer_52:

(Start: 11 @33884 has 80 MA's), (Start: 12 @33878 has 1 MA's), (36, 33740), (40, 33731), (47, 33704), (48, 33701), (51, 33641), (52, 33620), (68, 33413), (74, 33365),

Gene: Sabertooth_49 Start: 33390, Stop: 32851, Start Num: 18

Candidate Starts for Sabertooth_49:

(Start: 7 @33447 has 1 MA's), (Start: 8 @33432 has 1 MA's), (Start: 18 @33390 has 137 MA's), (52, 33132), (57, 33099), (63, 33060), (76, 32892),

Gene: Sabia_53 Start: 33865, Stop: 33260, Start Num: 11

Candidate Starts for Sabia_53:

(Start: 11 @33865 has 80 MA's), (Start: 12 @33859 has 1 MA's), (36, 33715), (40, 33706), (47, 33679), (52, 33595), (68, 33376), (74, 33328),

Gene: Sabinator_52 Start: 33855, Stop: 33265, Start Num: 11

Candidate Starts for Sabinator_52:

(Start: 11 @33855 has 80 MA's), (Start: 12 @33849 has 1 MA's), (36, 33705), (40, 33696), (47, 33669), (52, 33585), (68, 33381), (74, 33333),

Gene: Salz_49 Start: 32793, Stop: 32224, Start Num: 20

Candidate Starts for Salz_49:

(Start: 20 @32793 has 25 MA's), (38, 32658), (61, 32493), (68, 32337),

Gene: SaturnRing_51 Start: 33721, Stop: 33158, Start Num: 17

Candidate Starts for SaturnRing_51:

(Start: 7 @33778 has 1 MA's), (Start: 8 @33763 has 1 MA's), (Start: 9 @33751 has 17 MA's), (Start: 17 @33721 has 30 MA's), (30, 33652), (39, 33574), (47, 33538), (52, 33454), (76, 33199),

Gene: Scamp_49 Start: 33390, Stop: 32851, Start Num: 18

Candidate Starts for Scamp_49:

(Start: 7 @33447 has 1 MA's), (Start: 8 @33432 has 1 MA's), (Start: 18 @33390 has 137 MA's), (52, 33132), (57, 33099), (63, 33060), (76, 32892),

Gene: Scorpia_46 Start: 32329, Stop: 31805, Start Num: 17

Candidate Starts for Scorpia_46:

(Start: 17 @32329 has 30 MA's), (37, 32197), (39, 32191), (59, 32047),

Gene: Scout_50 Start: 32872, Stop: 32279, Start Num: 9

Candidate Starts for Scout_50:

(Start: 7 @32899 has 1 MA's), (Start: 8 @32884 has 1 MA's), (Start: 9 @32872 has 17 MA's), (Start: 17 @32842 has 30 MA's), (30, 32773), (39, 32695), (46, 32662), (47, 32659), (52, 32575), (76, 32320),

Gene: SenorClean_47 Start: 33388, Stop: 32849, Start Num: 18

Candidate Starts for SenorClean_47:

(Start: 7 @33445 has 1 MA's), (Start: 8 @33430 has 1 MA's), (Start: 18 @33388 has 137 MA's), (52, 33130), (57, 33097), (63, 33058), (76, 32890),

Gene: Shaka_49 Start: 33385, Stop: 32846, Start Num: 18

Candidate Starts for Shaka_49:

(Start: 7 @33442 has 1 MA's), (Start: 8 @33427 has 1 MA's), (Start: 18 @33385 has 137 MA's), (52, 33127), (57, 33094), (63, 33055), (76, 32887),

Gene: Sham4_50 Start: 32821, Stop: 32252, Start Num: 20

Candidate Starts for Sham4_50:

(Start: 20 @32821 has 25 MA's), (38, 32686), (61, 32521), (68, 32365),

Gene: ShayRa_55 Start: 32786, Stop: 32223, Start Num: 23

Candidate Starts for ShayRa_55:

(Start: 23 @32786 has 19 MA's), (26, 32780), (36, 32678), (43, 32651), (44, 32648), (53, 32537), (55, 32516), (57, 32507), (58, 32498), (77, 32279),

Gene: Sheen_50 Start: 35605, Stop: 35081, Start Num: 24

Candidate Starts for Sheen_50:

(Start: 24 @35605 has 1 MA's), (34, 35509), (49, 35416), (54, 35353), (55, 35350), (57, 35341), (62, 35308), (69, 35173), (76, 35128),

Gene: SheldonCooper_51 Start: 33808, Stop: 33272, Start Num: 18

Candidate Starts for SheldonCooper_51:

(6, 33871), (Start: 18 @33808 has 137 MA's), (52, 33550), (57, 33517), (63, 33478), (76, 33313),

Gene: Shuman_39 Start: 29809, Stop: 29285, Start Num: 28

Candidate Starts for Shuman_39:

(Start: 28 @29809 has 36 MA's), (38, 29704), (68, 29392), (71, 29383), (72, 29374), (74, 29344),

Gene: Shygu2_48 Start: 33364, Stop: 32825, Start Num: 18

Candidate Starts for Shygu2_48:

(Start: 7 @33421 has 1 MA's), (Start: 8 @33406 has 1 MA's), (Start: 18 @33364 has 137 MA's), (57, 33073), (63, 33034), (76, 32866),

Gene: Skipitt_48 Start: 33382, Stop: 32843, Start Num: 18

Candidate Starts for Skipitt_48:

(Start: 7 @33439 has 1 MA's), (Start: 8 @33424 has 1 MA's), (Start: 18 @33382 has 137 MA's), (52, 33124), (57, 33091), (63, 33052), (76, 32884),

Gene: Snape_50 Start: 32813, Stop: 32250, Start Num: 20

Candidate Starts for Snape_50:

(Start: 20 @32813 has 25 MA's), (38, 32684), (61, 32519), (68, 32363),

Gene: Snickers_53 Start: 33830, Stop: 33240, Start Num: 11

Candidate Starts for Snickers_53:

(Start: 11 @33830 has 80 MA's), (Start: 12 @33824 has 1 MA's), (36, 33680), (40, 33671), (47, 33644), (52, 33560), (68, 33356), (74, 33308),

Gene: SoYo_53 Start: 33768, Stop: 33178, Start Num: 11

Candidate Starts for SoYo_53:

(Start: 11 @33768 has 80 MA's), (Start: 12 @33762 has 1 MA's), (36, 33618), (40, 33609), (47, 33582), (52, 33498), (68, 33294), (74, 33246),

Gene: SoilDragon_53 Start: 33304, Stop: 32714, Start Num: 11

Candidate Starts for SoilDragon_53:

(Start: 11 @33304 has 80 MA's), (Start: 12 @33298 has 1 MA's), (36, 33154), (40, 33145), (47, 33118), (52, 33034), (68, 32830), (74, 32782),

Gene: Soshari_55 Start: 33880, Stop: 33293, Start Num: 11

Candidate Starts for Soshari_55:

(Start: 11 @33880 has 80 MA's), (Start: 12 @33874 has 1 MA's), (36, 33736), (40, 33727), (47, 33700), (48, 33697), (51, 33637), (52, 33616), (68, 33409), (74, 33361),

Gene: Soups_55 Start: 33022, Stop: 32456, Start Num: 23

Candidate Starts for Soups_55:

(Start: 23 @33022 has 19 MA's), (26, 33016), (36, 32911), (43, 32884), (44, 32881), (53, 32770), (55, 32749), (57, 32740), (58, 32731), (77, 32512),

Gene: Sparxx_50 Start: 33383, Stop: 32844, Start Num: 18

Candidate Starts for Sparxx_50:

(Start: 7 @33440 has 1 MA's), (Start: 8 @33425 has 1 MA's), (Start: 18 @33383 has 137 MA's), (52, 33125), (57, 33092), (63, 33053), (76, 32885),

Gene: Spike509_53 Start: 33881, Stop: 33294, Start Num: 11

Candidate Starts for Spike509_53:

(Start: 11 @33881 has 80 MA's), (Start: 12 @33875 has 1 MA's), (36, 33737), (40, 33728), (47, 33701), (48, 33698), (51, 33638), (52, 33617), (68, 33410), (74, 33362),

Gene: Spino_48 Start: 33388, Stop: 32849, Start Num: 18

Candidate Starts for Spino_48:

(Start: 7 @33445 has 1 MA's), (Start: 8 @33430 has 1 MA's), (Start: 18 @33388 has 137 MA's), (52, 33130), (57, 33097), (63, 33058), (76, 32890),

Gene: StCroix_39 Start: 29811, Stop: 29287, Start Num: 28

Candidate Starts for StCroix_39:

(Start: 28 @29811 has 36 MA's), (38, 29706), (68, 29394), (71, 29385), (72, 29376), (74, 29346),

Gene: Stagni_53 Start: 33859, Stop: 33269, Start Num: 11

Candidate Starts for Stagni_53:

(Start: 11 @33859 has 80 MA's), (Start: 12 @33853 has 1 MA's), (36, 33709), (40, 33700), (47, 33673), (52, 33589), (68, 33385), (74, 33337),

Gene: Stasia_48 Start: 33264, Stop: 32728, Start Num: 18

Candidate Starts for Stasia_48:

(Start: 7 @33321 has 1 MA's), (Start: 8 @33306 has 1 MA's), (Start: 18 @33264 has 137 MA's), (52, 33006), (57, 32973), (63, 32934), (69, 32817), (76, 32769),

Gene: StepMih_53 Start: 33850, Stop: 33260, Start Num: 11

Candidate Starts for StepMih_53:

(Start: 11 @33850 has 80 MA's), (Start: 12 @33844 has 1 MA's), (36, 33700), (40, 33691), (47, 33664), (52, 33580), (68, 33376), (74, 33328),

Gene: Stink_48 Start: 33111, Stop: 32563, Start Num: 18
Candidate Starts for Stink_48:
(Start: 18 @33111 has 137 MA's), (40, 32964), (57, 32814), (69, 32652), (76, 32604),

Gene: Strosahl_54 Start: 32444, Stop: 31914, Start Num: 23
Candidate Starts for Strosahl_54:
(Start: 23 @32444 has 19 MA's), (26, 32438), (33, 32378), (51, 32219), (52, 32201), (57, 32174), (67, 32018), (73, 31973),

Gene: Swann_39 Start: 29796, Stop: 29272, Start Num: 28
Candidate Starts for Swann_39:
(Start: 28 @29796 has 36 MA's), (38, 29691), (68, 29379), (71, 29370), (72, 29361), (74, 29331),

Gene: SwirlSquare_55 Start: 33014, Stop: 32430, Start Num: 20
Candidate Starts for SwirlSquare_55:
(13, 33029), (Start: 20 @33014 has 25 MA's), (48, 32849), (51, 32789), (65, 32690), (68, 32537), (70, 32534), (74, 32492),

Gene: Swirley_45 Start: 32876, Stop: 32349, Start Num: 17
Candidate Starts for Swirley_45:
(Start: 17 @32876 has 30 MA's), (37, 32741), (39, 32735), (59, 32591), (79, 32372),

Gene: Switzerland_54 Start: 32922, Stop: 32356, Start Num: 23
Candidate Starts for Switzerland_54:
(Start: 23 @32922 has 19 MA's), (26, 32916), (36, 32811), (43, 32784), (44, 32781), (53, 32670), (55, 32649), (57, 32640), (58, 32631), (77, 32412),

Gene: TNguyen7_51 Start: 33687, Stop: 33124, Start Num: 17
Candidate Starts for TNguyen7_51:
(Start: 7 @33744 has 1 MA's), (Start: 8 @33729 has 1 MA's), (Start: 9 @33717 has 17 MA's), (Start: 17 @33687 has 30 MA's), (30, 33618), (39, 33540), (47, 33504), (52, 33420), (76, 33165),

Gene: TWAMP_39 Start: 29798, Stop: 29274, Start Num: 28
Candidate Starts for TWAMP_39:
(Start: 28 @29798 has 36 MA's), (38, 29693), (68, 29381), (71, 29372), (72, 29363), (74, 29333),

Gene: Takoda_39 Start: 29771, Stop: 29247, Start Num: 28
Candidate Starts for Takoda_39:
(Start: 28 @29771 has 36 MA's), (38, 29666), (68, 29354), (71, 29345), (72, 29336), (74, 29306),

Gene: Taquarus_49 Start: 33391, Stop: 32852, Start Num: 18
Candidate Starts for Taquarus_49:
(Start: 7 @33448 has 1 MA's), (Start: 8 @33433 has 1 MA's), (Start: 18 @33391 has 137 MA's), (52, 33133), (57, 33100), (63, 33061), (76, 32893),

Gene: Tarynearal_41 Start: 32318, Stop: 31791, Start Num: 17
Candidate Starts for Tarynearal_41:
(Start: 17 @32318 has 30 MA's), (37, 32183), (39, 32177), (59, 32033), (79, 31814),

Gene: Taurus_54 Start: 33856, Stop: 33266, Start Num: 11
Candidate Starts for Taurus_54:
(Start: 11 @33856 has 80 MA's), (Start: 12 @33850 has 1 MA's), (36, 33706), (40, 33697), (47, 33670), (52, 33586), (68, 33382), (74, 33334),

Gene: Texage_48 Start: 33696, Stop: 33097, Start Num: 9

Candidate Starts for Texage_48:

(Start: 7 @33723 has 1 MA's), (Start: 8 @33708 has 1 MA's), (Start: 9 @33696 has 17 MA's), (Start: 17 @33666 has 30 MA's), (30, 33597), (39, 33519), (52, 33399), (76, 33138),

Gene: Thanksgivukkah_48 Start: 33428, Stop: 32847, Start Num: 8

Candidate Starts for Thanksgivukkah_48:

(Start: 7 @33443 has 1 MA's), (Start: 8 @33428 has 1 MA's), (Start: 18 @33386 has 137 MA's), (52, 33128), (57, 33095), (63, 33056), (76, 32888),

Gene: Tiffany_53 Start: 33742, Stop: 33152, Start Num: 11

Candidate Starts for Tiffany_53:

(Start: 11 @33742 has 80 MA's), (Start: 12 @33736 has 1 MA's), (36, 33592), (40, 33583), (47, 33556), (52, 33472), (68, 33268), (74, 33220),

Gene: Timothy_50 Start: 32790, Stop: 32227, Start Num: 20

Candidate Starts for Timothy_50:

(Start: 20 @32790 has 25 MA's), (38, 32661), (61, 32496), (68, 32340),

Gene: TinaFeyge_49 Start: 33383, Stop: 32844, Start Num: 18

Candidate Starts for TinaFeyge_49:

(Start: 7 @33440 has 1 MA's), (Start: 8 @33425 has 1 MA's), (Start: 18 @33383 has 137 MA's), (52, 33125), (57, 33092), (63, 33053), (76, 32885),

Gene: TinyPebbles_52 Start: 33886, Stop: 33299, Start Num: 11

Candidate Starts for TinyPebbles_52:

(Start: 11 @33886 has 80 MA's), (Start: 12 @33880 has 1 MA's), (36, 33742), (40, 33733), (47, 33706), (48, 33703), (51, 33643), (52, 33622), (68, 33415), (74, 33367),

Gene: TinyTimmy_50 Start: 32839, Stop: 32270, Start Num: 20

Candidate Starts for TinyTimmy_50:

(Start: 20 @32839 has 25 MA's), (38, 32704), (61, 32539), (68, 32383),

Gene: Tinybot_48 Start: 33415, Stop: 32876, Start Num: 18

Candidate Starts for Tinybot_48:

(Start: 7 @33472 has 1 MA's), (Start: 8 @33457 has 1 MA's), (Start: 18 @33415 has 137 MA's), (52, 33157), (57, 33124), (63, 33085), (76, 32917),

Gene: TiroTheta9_49 Start: 33382, Stop: 32843, Start Num: 18

Candidate Starts for TiroTheta9_49:

(Start: 7 @33439 has 1 MA's), (Start: 8 @33424 has 1 MA's), (Start: 18 @33382 has 137 MA's), (52, 33124), (57, 33091), (63, 33052), (76, 32884),

Gene: Todacoro_49 Start: 33695, Stop: 33096, Start Num: 9

Candidate Starts for Todacoro_49:

(Start: 7 @33722 has 1 MA's), (Start: 8 @33707 has 1 MA's), (Start: 9 @33695 has 17 MA's), (Start: 17 @33665 has 30 MA's), (30, 33596), (39, 33518), (52, 33398), (76, 33137),

Gene: Toro_52 Start: 35717, Stop: 35193, Start Num: 24

Candidate Starts for Toro_52:

(Start: 24 @35717 has 1 MA's), (34, 35621), (55, 35462), (57, 35453), (62, 35420), (69, 35285), (76, 35240),

Gene: TroyPia_50 Start: 33386, Stop: 32847, Start Num: 18
Candidate Starts for TroyPia_50:
(Start: 7 @33443 has 1 MA's), (Start: 8 @33428 has 1 MA's), (Start: 18 @33386 has 137 MA's), (52, 33128), (57, 33095), (63, 33056), (76, 32888),

Gene: TygerBlood_49 Start: 33388, Stop: 32849, Start Num: 18
Candidate Starts for TygerBlood_49:
(Start: 7 @33445 has 1 MA's), (Start: 8 @33430 has 1 MA's), (Start: 18 @33388 has 137 MA's), (52, 33130), (57, 33097), (63, 33058), (76, 32890),

Gene: UhSalsa_39 Start: 29797, Stop: 29273, Start Num: 28
Candidate Starts for UhSalsa_39:
(Start: 28 @29797 has 36 MA's), (38, 29692), (68, 29380), (71, 29371), (72, 29362), (74, 29332),

Gene: Ulysses_48 Start: 33065, Stop: 32526, Start Num: 18
Candidate Starts for Ulysses_48:
(Start: 7 @33122 has 1 MA's), (Start: 8 @33107 has 1 MA's), (Start: 18 @33065 has 137 MA's), (52, 32807), (57, 32774), (63, 32735), (76, 32567),

Gene: UnionJack_43 Start: 31830, Stop: 31306, Start Num: 17
Candidate Starts for UnionJack_43:
(Start: 17 @31830 has 30 MA's), (37, 31698), (39, 31692), (59, 31548), (79, 31329),

Gene: Veracruz_48 Start: 33695, Stop: 33096, Start Num: 9
Candidate Starts for Veracruz_48:
(Start: 7 @33722 has 1 MA's), (Start: 8 @33707 has 1 MA's), (Start: 9 @33695 has 17 MA's), (Start: 17 @33665 has 30 MA's), (30, 33596), (39, 33518), (52, 33398), (76, 33137),

Gene: Vix_53 Start: 33939, Stop: 33349, Start Num: 11
Candidate Starts for Vix_53:
(Start: 11 @33939 has 80 MA's), (Start: 12 @33933 has 1 MA's), (36, 33789), (40, 33780), (47, 33753), (52, 33669), (68, 33465), (74, 33417),

Gene: Waits_54 Start: 32652, Stop: 32116, Start Num: 23
Candidate Starts for Waits_54:
(Start: 23 @32652 has 19 MA's), (26, 32646), (33, 32586), (51, 32427), (52, 32409), (57, 32382), (67, 32220), (73, 32175),

Gene: Wander_49 Start: 33385, Stop: 32846, Start Num: 18
Candidate Starts for Wander_49:
(Start: 7 @33442 has 1 MA's), (Start: 8 @33427 has 1 MA's), (Start: 18 @33385 has 137 MA's), (52, 33127), (57, 33094), (63, 33055), (76, 32887),

Gene: Warrior24_57 Start: 33065, Stop: 32535, Start Num: 23
Candidate Starts for Warrior24_57:
(Start: 23 @33065 has 19 MA's), (26, 33059), (33, 32999), (51, 32840), (52, 32822), (57, 32795), (67, 32639), (73, 32594),

Gene: Watson_53 Start: 33848, Stop: 33258, Start Num: 11
Candidate Starts for Watson_53:
(Start: 11 @33848 has 80 MA's), (Start: 12 @33842 has 1 MA's), (36, 33698), (40, 33689), (47, 33662), (52, 33578), (68, 33374), (74, 33326),

Gene: Wilbur_49 Start: 33385, Stop: 32846, Start Num: 18

Candidate Starts for Wilbur_49:

(Start: 7 @33442 has 1 MA's), (Start: 8 @33427 has 1 MA's), (Start: 18 @33385 has 137 MA's), (52, 33127), (57, 33094), (63, 33055), (76, 32887),

Gene: Wile_48 Start: 33395, Stop: 32856, Start Num: 18

Candidate Starts for Wile_48:

(Start: 7 @33452 has 1 MA's), (Start: 8 @33437 has 1 MA's), (Start: 18 @33395 has 137 MA's), (52, 33137), (57, 33104), (63, 33065), (76, 32897),

Gene: Wizard007_49 Start: 33393, Stop: 32854, Start Num: 18

Candidate Starts for Wizard007_49:

(Start: 7 @33450 has 1 MA's), (Start: 8 @33435 has 1 MA's), (Start: 18 @33393 has 137 MA's), (52, 33135), (57, 33102), (63, 33063), (76, 32895),

Gene: Wooldri_55 Start: 33768, Stop: 33178, Start Num: 11

Candidate Starts for Wooldri_55:

(Start: 11 @33768 has 80 MA's), (Start: 12 @33762 has 1 MA's), (36, 33618), (40, 33609), (47, 33582), (52, 33498), (68, 33294), (74, 33246),

Gene: Xena_47 Start: 33361, Stop: 32822, Start Num: 18

Candidate Starts for Xena_47:

(Start: 7 @33418 has 1 MA's), (Start: 8 @33403 has 1 MA's), (Start: 18 @33361 has 137 MA's), (52, 33103), (57, 33070), (63, 33031), (76, 32863),

Gene: YoSam321_49 Start: 33382, Stop: 32843, Start Num: 18

Candidate Starts for YoSam321_49:

(Start: 7 @33439 has 1 MA's), (Start: 8 @33424 has 1 MA's), (Start: 18 @33382 has 137 MA's), (52, 33124), (57, 33091), (63, 33052), (76, 32884),

Gene: Yogi_39 Start: 29772, Stop: 29248, Start Num: 28

Candidate Starts for Yogi_39:

(Start: 28 @29772 has 36 MA's), (38, 29667), (68, 29355), (71, 29346), (72, 29337), (74, 29307),

Gene: Yoncess_39 Start: 29773, Stop: 29249, Start Num: 28

Candidate Starts for Yoncess_39:

(Start: 28 @29773 has 36 MA's), (38, 29668), (68, 29356), (71, 29347), (72, 29338), (74, 29308),

Gene: Zetzy_52 Start: 33419, Stop: 32829, Start Num: 11

Candidate Starts for Zetzy_52:

(Start: 11 @33419 has 80 MA's), (Start: 12 @33413 has 1 MA's), (36, 33269), (40, 33260), (47, 33233), (52, 33149), (68, 32945), (74, 32897),