

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 311130 Report

This analysis was run 06/27/26 on database version 652.

Pham number 311130 has 338 members, 33 are drafts.

Phages represented in each track:

- Track 1 : DustyMartin_4, Shapes_4, Rowdy_4
- Track 2 : Eaglepride_3
- Track 3 : Twister_3, Edison31_3, Rebeuca_4, Kristoff_4, WalterMcMickey_3
- Track 4 : OKCentral2016_3, Goose_3, Chupacabra_3
- Track 5 : RhynO_3
- Track 6 : Topanga_3
- Track 7 : Boohoo_6, JSwag_6, Waits_6, Epsocamisio_6, KatherineG_6, Nebulosus_6, Remus_6, Ravana_6, Warrior24_6, Switzerland_6, Anaysia_6, Rosalind_6, MinecraftSteve_7, ReMo_6, Looper_6, Soups_6, DekHockey33_6, ShayRa_7, Oofda_6, LastResort_6, Battleship_7, Strosahl_6
- Track 8 : LogiBear_6
- Track 9 : Anon_6
- Track 10 : Elle_6
- Track 11 : Nedarya_6
- Track 12 : MyraDee_3
- Track 13 : Panamaxus_3, QuinnKiro_2, JF2_3, Todacoro_3, Poppicle_3, Pocahontas_3, EtoileNova_2, Noella_3, Caviar_3, ResDef_3, JF4_3, Veracruz_2, Texage_2, Hookmount_3, MK4_3, Isca_3, Margo_3, B1_02, Norbert_2, Lambert1_3
- Track 14 : Grub_3, BreSam8_3, Grif_3, Misomonster_5, Spike509_3, Phoxy_3, Vix_3, SoYo_3, Sabia_3, LarryKay_3, Microwolf_3, Watson_3, Snickers_3, Iowa_3, Malinsilva_5, Aglet_3, BuzzBuzz_2, Bigflo_3, Louie6_3, LBerry_3, HashRod_4, JHC117_3, Phoebe_3, KADY_4, GingkoMaracino_3, Tiffany_3, Croquant_4, Beauxregard13_3, Taurus_3, Fernando_3, AgronaGT15_3, Penny1_3, DaHudson_3, Grum1_3, TinyPebbles_3, Sabinator_3, Bxz2_3, Lilith_3, PGHhamlin_5, MarQuardt_3, AugsMagnumOpus_5, GtownJaz_3, Methuselah_3, Soshari_5, StepMih_3, JenCasNa_3, LugYA_5, Colbster_3, Anubis_5, Dieselweasel_3, SoilDragon_3, Farber_3, Stagni_3, Hercules11_3, Jobu08_3, Mainiac_3, Cullens_3, Daishi_3, Ollie_3, Pembroke_3, Gwennie_2, EpicPhail_3, MuchMore_5, Wooldri_5, Marie_3, PotatoSplit_4, MadMarie_3, MoneyMay_3, Rummer_3, Montavir_2
- Track 15 : Reba_4, Pawn_3, Marius_4, Groupthink_4, ClownCar_3, Kalnok_4, Gemma_3, HaveUMetTed_4, Calvinny_3, OlanP_3, Heliosoles_3, Manu_4, JeppNRM_4, Phranny_4
- Track 16 : Marchesa_3, Heathen_3, HelDan_3, Phantastic_3, Giroux_3, Kachowdy_3, BabyRay_3, Chiqui_2, Pistachio_3, Scout_3, Fred313_3, BabyJohn_2, DropBear_3, Idleandcovert_2, SaturnRing_2, Puppy_3, Zarafa_3, BlueBird_3, Roimos_3, Bugatti_2, TNguyen7_3, Clammy_2
- Track 17 : P28Green_3

- Track 18 : Kalb97_4, ACFishhook_3
- Track 19 : Zetzy_3
- Track 20 : PurpleHaze_3
- Track 21 : Rockstar_3
- Track 22 : PhishRPhriends_3
- Track 23 : MA5_3
- Track 24 : Blackmoor_3, LittleGuy_3, Deano_3, Kremtemulon_3, Roosevelt_3, LochMonster_3, Cocoaberry_3, Avle17_3, Mayonnaise_3, Huxley_3, Iceman_3, Ruin_3, Kratak_3, Polymorphads_3, Palestino_3, Wizard007_3, PeterPeter_3, Ulysses_3, Lunsford_3, Houdini22_3, Lorenzo_3, LeoAvram_3, Phontbonne_3, Koreni_3, Sultana_3, MeeZee_3, Ohfah_3, BubbleTrouble_3, Broseidon_3, OKaNui_3, Commander_3, SteMason_3, Millski_3, Citius_3, Clarenza_3, Bartimeaus_3, Eagle_2, Rosa24_2, KFPoly_3, Sparxx_3, Cintron_3, KekoraPapaka_2, Nebs_3, Arturo_2, TiroTheta9_3, Florean_3, DirtyDunning_3, Kyee_3, TinaFeyge_3, TroyPia_3, Eris_3, Chaph_3, Sabertooth_3, Skipitt_3, LappelDuVide_3, Mazhar510_3, Bruiser_3, Druantia_3, Spino_3, JoongJeon_3, Gadost_3, Eros_3, Funston_3, Albee_3, Thanksgivukkah_3, Connomayer_3, RockieBear_2, NorthStar_3, Holli_3, Scamp_3, LittleB_3, YoSam321_3, Pumbaa_3, NotAPhaseMom_3, Baby16_3, Happiness_3, SenorClean_3, Phelipe_3, Wander_3, Phacado_3, TygerBlood_3, Abdiel_3, Tinybot_2
- Track 25 : Stasia_3
- Track 26 : ICleared_3, Medusa_3, Iracema64_3, Nemo27_3, BellusTerra_3, Burger_2, Melvin_3, JetBlade_3, Lemur_3, Shaka_3, Pipcraft_3, Bombshell_3, Flux_3, Caelakin_3, Eurydice_3, Morrow_3, Maverick_3, Peaches_3, Dhanush_3
- Track 27 : Backyardigan_3, AbbysRanger_3, Badger_3, Xena_3, Cici_3, Datway_3, PetiteSangsue_3, Katalie136_3, Wile_3, Bumblebee11_3, Achebe_3, Morpher26_3, Perplexer_3
- Track 28 : SheldonCooper_3, ChampagnePapi_3, BangNhom_2, Cerulean_3, Obama12_3, LHTSCC_3
- Track 29 : Kamy_3, Phighter1804_3, CentreCat_3, HamSlice_2, Maxo_3, Relief_3, Alberto7_3, Koan_3, Annyong_3, Kingmustik0402_3, Camperdownii_3
- Track 30 : Shygu2_3
- Track 31 : AvatarAhPeg_3, Stink_3, Miramae_3
- Track 32 : Jaykayelowell_3, Romney_3, Wilbur_3
- Track 33 : Noelle_3
- Track 34 : Nyxis_3, Eapen_3
- Track 35 : Taquarus_3
- Track 36 : Cindaradix_3
- Track 37 : Mundrea_3
- Track 38 : DroogsArmy_3
- Track 39 : Sheen_3, Toro_3, FlyCatcher_3
- Track 40 : Timshel_3
- Track 41 : HINdeR_3
- Track 42 : Onglai_6
- Track 43 : DonTron_67
- Track 44 : Makar_68, Clawz_67
- Track 45 : Sting_66, KingstonB_65, Grumio_67, Soos_63
- Track 46 : Stillion_67
- Track 47 : GMA4_64
- Track 48 : Tonitrus_54

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

The start number called the most often in the published annotations is 17, it was called in 279 of the 305 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ACFishhook_3, AbbysRanger_3, Abdiel_3, Achebe_3, Aglet_3, AgronaGT15_3, Albee_3, Alberto7_3, Anaysia_6, Annyong_3, Anubis_5, Arturo_2, AugsMagnumOpus_5, AvatarAhPeg_3, Avle17_3, B1_02, Baby16_3, BabyJohn_2, BabyRay_3, Backyardigan_3, Badger_3, BangNhom_2, Bartimeaus_3, Battleship_7, Beauxregard13_3, Bigflo_3, Blackmoor_3, BlueBird_3, Boohoo_6, BreSam8_3, Broseidon_3, Bruiser_3, BubbleTrouble_3, Bugatti_2, Bumblebee11_3, BuzzBuzz_2, Bxz2_3, Calvinny_3, Camperdownii_3, Caviar_3, CentreCat_3, Cerulean_3, ChampagnePapi_3, Chaph_3, Chiqui_2, Chupacabra_3, Cici_3, Cindaradix_3, Cintron_3, Citius_3, Clammy_2, Clarenza_3, ClownCar_3, Cocoaberry_3, Colbster_3, Commander_3, Connomayer_3, Croquant_4, Cullens_3, DaHudson_3, Daishi_3, Datway_3, Deano_3, DekHockey33_6, Dieselweasel_3, DirtyDunning_3, DroogsArmy_3, DropBear_3, Druantia_3, DustyMartin_4, Eagle_2, Eaglepride_3, Eapen_3, Edison31_3, Elle_6, EpicPhail_3, Epsocamisio_6, Eris_3, Eros_3, EtoileNova_2, Farber_3, Fernando_3, Floean_3, FlyCatcher_3, Fred313_3, Funston_3, Gadost_3, Gemma_3, GingkoMaracino_3, Giroux_3, Goose_3, Grif_3, Grouphink_4, Grub_3, Grum1_3, GtownJaz_3, Gwennie_2, HINdeR_3, HamSlice_2, Happiness_3, HashRod_4, HaveUMetTed_4, Heathen_3, HelDan_3, Heliosoles_3, Hercules11_3, Holli_3, Hookmount_3, Houdini22_3, Huxley_3, Iceman_3, Idleandcovert_2, Isca_3, JF2_3, JF4_3, JHC117_3, JSwag_6, Jaykayelowell_3, JenCasNa_3, JeppNRM_4, Jobu08_3, JoongJeon_3, KADY_4, KFPoly_3, Kachowdy_3, Kalb97_4, Kalnoky_4, Kampy_3, Katalie136_3, KatherineG_6, KekoraPapaka_2, Kingmustik0402_3, Koan_3, Koreni_3, Kratark_3, Kremtemulon_3, Kristoff_4, Kye_3, LBerry_3, LHTSCC_3, Lambert1_3, LappelDuVide_3, LarryKay_3, LastResort_6, LeoAvram_3, Lilith_3, LittleB_3, LittleGuy_3, LochMonster_3, LogiBear_6, Looper_6, Lorenzo_3, Louie6_3, Lowa_3, LugYA_5, Lunsford_3, MA5_3, MK4_3, MadMarie_3, Mainiac_3, Malinsilva_5, Manu_4, MarQuardt_3, Marchesa_3, Margo_3, Marie_3, Marius_4, Maxo_3, Mayonnaise_3, Mazhar510_3, MeeZee_3, Methuselah_3, Microwolf_3, Millski_3, MinecraftSteve_7, Miramae_3, Misomonster_5, MoneyMay_3, Montavir_2, Morpher26_3, MuchMore_5, Mundrea_3, MyraDee_3, Nebs_3, Nebulosus_6, Nedarya_6, Noella_3, Noelle_3, Norbert_2, NorthStar_3, NotAPhaseMom_3, Nyxis_3, OKCentral2016_3, OKaNui_3, Obama12_3, Ohfah_3, OlanP_3, Ollie_3, Onglai_6, Oofda_6, P28Green_3, PGHhamlin_5, Palestino_3, Panamaxus_3, Pawn_3, Pembroke_3, Penny1_3, Perplexer_3, PeterPeter_3, PetiteSangsue_3, Phacado_3, Phantastic_3, Phelipe_3, Phighter1804_3, PhishRPhriends_3, Phoebe_3, Phontbonne_3, Phoxy_3, Phranny_4, Pistachio_3, Pocahontas_3, Polymorphads_3, Popcicle_3, PotatoSplit_4, Pumbaa_3, Puppy_3, PurpleHaze_3, QuinnKiro_2, Ravana_6, ReMo_6, Reba_4, Rebeuca_4, Relief_3, Remus_6, ResDef_3, RhynO_3, RockieBear_2, Rockstar_3, Roimos_3, Romney_3, Roosevelt_3, Rosa24_2, Rosalind_6, Rowdy_4, Ruin_3, Rummer_3, Sabertooth_3, Sabia_3, Sabinator_3, SaturnRing_2, Scamp_3, Scout_3, SenorClean_3, Shapes_4, ShayRa_7, Sheen_3, SheldonCooper_3, Shygu2_3, Skipitt_3, Snickers_3, SoYo_3, SoilDragon_3, Soshari_5, Soups_6, Sparxx_3, Spike509_3, Spino_3, Stagni_3, Stasia_3, SteMason_3, StepMih_3, Stink_3, Strosahl_6, Sultana_3, Switzerland_6, TNguyen7_3, Taquarus_3, Taurus_3, Texage_2, Thanksgivukkah_3, Tiffany_3, Timshel_3, TinaFeyge_3, TinyPebbles_3, Tinybot_2, TiroTheta9_3, Todacoro_3, Topanga_3, Toro_3, TroyPia_3, Twister_3,

TygerBlood_3, Ulysses_3, Veracruz_2, Vix_3, Waits_6, WalterMcMickey_3, Wander_3, Warrior24_6, Watson_3, Wilbur_3, Wile_3, Wizard007_3, Wooldri_5, Xena_3, YoSam321_3, Zarafa_3, Zetzy_3,

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

- BellusTerra_3, Bombshell_3, Burger_2, Caelakin_3, Dhanush_3, Eurydice_3, Flux_3, ICleared_3, Iracema64_3, JetBlade_3, Lemur_3, Maverick_3, Medusa_3, Melvin_3, Morrow_3, Nemo27_3, Peaches_3, Pipcraft_3, Shaka_3,

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

- Anon_6, Clawz_67, DonTron_67, GMA4_64, Grumio_67, KingstonB_65, Makar_68, Soos_63, Stillion_67, Sting_66, Tonitrus_54,

Summary by start number:

Start 11:

- Found in 104 of 338 (30.8%) of genes in pham
- Manual Annotations of this start: 19 of 305
- Called 18.3% of time when present
- Phage (with cluster) where this start called: BellusTerra_3 (A4), Bombshell_3 (A4), Burger_2 (A4), Caelakin_3 (A4), Dhanush_3 (A4), Eurydice_3 (A4), Flux_3 (A4), ICleared_3 (A4), Iracema64_3 (A4), JetBlade_3 (A4), Lemur_3 (A4), Maverick_3 (A4), Medusa_3 (A4), Melvin_3 (A4), Morrow_3 (A4), Nemo27_3 (A4), Peaches_3 (A4), Pipcraft_3 (A4), Shaka_3 (A4),

Start 13:

- Found in 8 of 338 (2.4%) of genes in pham
- Manual Annotations of this start: 5 of 305
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Clawz_67 (CP), DonTron_67 (CP), Grumio_67 (CP), KingstonB_65 (CP), Makar_68 (CP), Soos_63 (CP), Stillion_67 (CP), Sting_66 (CP),

Start 16:

- Found in 1 of 338 (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: GMA4_64 (singleton),

Start 17:

- Found in 327 of 338 (96.7%) of genes in pham
- Manual Annotations of this start: 279 of 305
- Called 94.2% of time when present
- Phage (with cluster) where this start called: ACFishhook_3 (A3), AbbysRanger_3 (A4), Abdiel_3 (A4), Achebe_3 (A4), Aglet_3 (A3), AgronaGT15_3 (A3), Albee_3 (A4), Alberto7_3 (A4), Anaysia_6 (A15), Anyong_3 (A4), Anubis_5 (A3), Arturo_2 (A4), AugsMagnumOpus_5 (A3), AvatarAhPeg_3 (A4), Avle17_3 (A4), B1_02 (A3), Baby16_3 (A4), BabyJohn_2 (A3), BabyRay_3 (A3), Backyardigan_3 (A4), Badger_3 (A4), BangNhom_2 (A4), Bartimeaus_3 (A4), Battleship_7 (A15), Beauxregard13_3 (A3), Bigflo_3 (A3), Blackmooor_3 (A4), BlueBird_3 (A3), Boohoo_6 (A15), BreSam8_3 (A3), Broseidon_3 (A4), Bruiser_3 (A4), BubbleTrouble_3 (A4), Bugatti_2 (A3), Bumblebee11_3 (A4), BuzzBuzz_2 (A3), Bxz2_3 (A3), Calvinny_3 (A3), Camperdownii_3 (A4), Caviar_3 (A3), CentreCat_3 (A4), Cerulean_3 (A4),

ChampagnePapi_3 (A4), Chaph_3 (A4), Chiqui_2 (A3), Chupacabra_3 (A10), Cici_3 (A4), Cindaradix_3 (A4), Cintron_3 (A4), Citius_3 (A4), Clammy_2 (A3), Clarenza_3 (A4), ClownCar_3 (A3), Cocoaberry_3 (A4), Colbster_3 (A3), Commander_3 (A4), Connomayer_3 (A4), Croquant_4 (A3), Cullens_3 (A3), DaHudson_3 (A3), Daishi_3 (A3), Datway_3 (A4), Deano_3 (A4), DekHockey33_6 (A15), Dieselweasel_3 (A3), DirtyDunning_3 (A4), DroogsArmy_3 (A7), DropBear_3 (A3), Druantia_3 (A4), DustyMartin_4 (A10), Eagle_2 (A4), Eaglepride_3 (A10), Eapen_3 (A4), Edison31_3 (A10), Elle_6 (A15), EpicPhail_3 (A3), Epsocamisio_6 (A15), Eris_3 (A4), Eros_3 (A4), EtoileNova_2 (A3), Farber_3 (A3), Fernando_3 (A3), Florean_3 (A4), FlyCatcher_3 (A7), Fred313_3 (A3), Funston_3 (A4), Gadost_3 (A4), Gemma_3 (A3), GingkoMaracino_3 (A3), Giroux_3 (A3), Goose_3 (A10), Grif_3 (A3), Groupthink_4 (A3), Grub_3 (A3), Grum1_3 (A3), GtownJaz_3 (A3), Gwennie_2 (A3), HINdeR_3 (A7), HamSlice_2 (A4), Happiness_3 (A4), HashRod_4 (A3), HaveUMetTed_4 (A3), Heathen_3 (A3), HelDan_3 (A3), Heliosoles_3 (A3), Hercules11_3 (A3), Holli_3 (A4), Hookmount_3 (A3), Houdini22_3 (A4), Huxley_3 (A4), Iceman_3 (A4), Idleandcovert_2 (A3), Isca_3 (A3), JF2_3 (A3), JF4_3 (A3), JHC117_3 (A3), JSwag_6 (A15), Jaykayelowell_3 (A4), JenCasNa_3 (A3), JeppNRM_4 (A3), Jobu08_3 (A3), JoongJeon_3 (A4), KADY_4 (A3), KFPoly_3 (A4), Kachowdy_3 (A3), Kalb97_4 (A3), Kalnok_4 (A3), Kampy_3 (A4), Katalie136_3 (A4), KatherineG_6 (A15), KekoraPapaka_2 (A4), Kingmustik0402_3 (A4), Koan_3 (A4), Koreni_3 (A4), Kratark_3 (A4), Kremtemulon_3 (A4), Kristoff_4 (A10), Kye_3 (A4), LBerry_3 (A3), LHTSCC_3 (A4), Lambert1_3 (A3), LappelDuVide_3 (A4), LarryKay_3 (A3), LastResort_6 (A15), LeoAvram_3 (A4), Lilith_3 (A3), LittleB_3 (A4), LittleGuy_3 (A4), LochMonster_3 (A4), LogiBear_6 (A15), Looper_6 (A15), Lorenzo_3 (A4), Louie6_3 (A3), Iowa_3 (A3), LugYA_5 (A3), Lunsford_3 (A4), MA5_3 (A3), MK4_3 (A3), MadMarie_3 (A3), Mainiac_3 (A3), Malinsilva_5 (A3), Manu_4 (A3), MarQuardt_3 (A3), Marchesa_3 (A3), Margo_3 (A3), Marie_3 (A3), Marius_4 (A3), Maxo_3 (A4), Mayonnaise_3 (A4), Mazhar510_3 (A4), MeeZee_3 (A4), Methuselah_3 (A3), Microwolf_3 (A3), Millski_3 (A4), MinecraftSteve_7 (A15), Miramae_3 (A4), Misomonster_5 (A3), MoneyMay_3 (A3), Montavir_2 (A3), Morpher26_3 (A4), MuchMore_5 (A3), Mundrea_3 (A4), MyraDee_3 (A18), Nebs_3 (A4), Nebulosus_6 (A15), Nedarya_6 (A15), Noella_3 (A3), Noelle_3 (A4), Norbert_2 (A3), NorthStar_3 (A4), NotAPhaseMom_3 (A4), Nyxis_3 (A4), OKCentral2016_3 (A10), OKaNui_3 (A4), Obama12_3 (A4), Ohfah_3 (A4), OlanP_3 (A3), Ollie_3 (A3), Onglai_6 (A9), Oofda_6 (A15), P28Green_3 (A3), PGHhamlin_5 (A3), Palestino_3 (A4), Panamaxus_3 (A3), Pawn_3 (A3), Pembroke_3 (A3), Penny1_3 (A3), Perplexer_3 (A4), PeterPeter_3 (A4), PetiteSangsue_3 (A4), Phacado_3 (A4), Phantastic_3 (A3), Phelipe_3 (A4), Phighter1804_3 (A4), PhishRPhriends_3 (A3), Phoebe_3 (A3), Phontbonne_3 (A4), Phoxy_3 (A3), Phranny_4 (A3), Pistachio_3 (A3), Pocahontas_3 (A3), Polymorphads_3 (A4), Popcicle_3 (A3), PotatoSplit_4 (A3), Pumbaa_3 (A4), Puppy_3 (A3), PurpleHaze_3 (A3), QuinnKiro_2 (A3), Ravana_6 (A15), ReMo_6 (A15), Reba_4 (A3), Rebeuca_4 (A10), Relief_3 (A4), Remus_6 (A15), ResDef_3 (A3), RhynO_3 (A10), RockieBear_2 (A4), Rockstar_3 (A3), Roimos_3 (A3), Romney_3 (A4), Roosevelt_3 (A4), Rosa24_2 (A4), Rosalind_6 (A15), Rowdy_4 (A10), Ruin_3 (A4), Rummer_3 (A3), Sabertooth_3 (A4), Sabia_3 (A3), Sabinator_3 (A3), SaturnRing_2 (A3), Scamp_3 (A4), Scout_3 (A3), SenorClean_3 (A4), Shapes_4 (A10), ShayRa_7 (A15), Sheen_3 (A7), SheldonCooper_3 (A4), Shygu2_3 (A4), Skipitt_3 (A4), Snickers_3 (A3), SoYo_3 (A3), SoilDragon_3 (A3), Soshari_5 (A3), Soups_6 (A15), Sparxx_3 (A4), Spike509_3 (A3), Spino_3 (A4), Stagni_3 (A3), Stasia_3 (A4), SteMason_3 (A4), StepMih_3 (A3), Stink_3 (A4), Strosahl_6 (A15), Sultana_3 (A4), Switzerland_6 (A15), TNguyen7_3 (A3), Taquarus_3 (A4), Taurus_3 (A3), Texage_2 (A3), Thanksgivukkah_3 (A4), Tiffany_3 (A3), Timshel_3 (A7), TinaFeyge_3 (A4), TinyPebbles_3 (A3), Tinybot_2 (A4), TiroTheta9_3 (A4),

Todacoro_3 (A3), Topanga_3 (A10), Toro_3 (A7), TroyPia_3 (A4), Twister_3 (A10), TygerBlood_3 (A4), Ulysses_3 (A4), Veracruz_2 (A3), Vix_3 (A3), Waits_6 (A15), WalterMcMickey_3 (A10), Wander_3 (A4), Warrior24_6 (A15), Watson_3 (A3), Wilbur_3 (A4), Wile_3 (A4), Wizard007_3 (A4), Wooldri_5 (A3), Xena_3 (A4), YoSam321_3 (A4), Zarafa_3 (A3), Zetzy_3 (A3),

Start 18:

- Found in 1 of 338 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 305
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anon_6 (A15),

Start 20:

- Found in 1 of 338 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 305
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Tonitrus_54 (singleton),

Summary by clusters:

There are 9 clusters represented in this pham: A15, singleton, A10, A18, A3, A4, A7, A9, CP,

Info for manual annotations of cluster A10:

- Start number 17 was manually annotated 11 times for cluster A10.

Info for manual annotations of cluster A15:

- Start number 17 was manually annotated 23 times for cluster A15.
- Start number 18 was manually annotated 1 time for cluster A15.

Info for manual annotations of cluster A18:

- Start number 17 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A3:

- Start number 17 was manually annotated 116 times for cluster A3.

Info for manual annotations of cluster A4:

- Start number 11 was manually annotated 19 times for cluster A4.
- Start number 17 was manually annotated 124 times for cluster A4.

Info for manual annotations of cluster A7:

- Start number 17 was manually annotated 4 times for cluster A7.

Info for manual annotations of cluster CP:

- Start number 13 was manually annotated 5 times for cluster CP.

Gene Information:

Gene: ACFishhook_3 Start: 1365, Stop: 1685, Start Num: 17

Candidate Starts for ACFishhook_3:

(Start: 17 @1365 has 279 MA's), (60, 1677),

Gene: AbbysRanger_3 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for AbbysRanger_3:

(14, 1299), (Start: 17 @1326 has 279 MA's), (24, 1365), (25, 1368), (34, 1428),

Gene: Abdiel_3 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for Abdiel_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Achebe_3 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for Achebe_3:

(14, 1299), (Start: 17 @1326 has 279 MA's), (24, 1365), (25, 1368), (34, 1428),

Gene: Aglet_3 Start: 1361, Stop: 1681, Start Num: 17

Candidate Starts for Aglet_3:

(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: AgronaGT15_3 Start: 1362, Stop: 1682, Start Num: 17

Candidate Starts for AgronaGT15_3:

(Start: 17 @1362 has 279 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: Albee_3 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for Albee_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Alberto7_3 Start: 1327, Stop: 1641, Start Num: 17

Candidate Starts for Alberto7_3:

(Start: 17 @1327 has 279 MA's), (34, 1429),

Gene: Anaysia_6 Start: 3082, Stop: 3417, Start Num: 17

Candidate Starts for Anaysia_6:

(Start: 17 @3082 has 279 MA's), (52, 3337), (56, 3391),

Gene: Annyong_3 Start: 1327, Stop: 1641, Start Num: 17

Candidate Starts for Annyong_3:

(Start: 17 @1327 has 279 MA's), (34, 1429),

Gene: Anon_6 Start: 2991, Stop: 3323, Start Num: 18

Candidate Starts for Anon_6:

(Start: 18 @2991 has 1 MA's), (29, 3069), (34, 3093), (46, 3177), (52, 3243),

Gene: Anubis_5 Start: 1361, Stop: 1681, Start Num: 17

Candidate Starts for Anubis_5:

(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Arturo_2 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for Arturo_2:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: AugsMagnumOpus_5 Start: 1361, Stop: 1681, Start Num: 17

Candidate Starts for AugsMagnumOpus_5:

(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: AvatarAhPeg_3 Start: 1319, Stop: 1633, Start Num: 17

Candidate Starts for AvatarAhPeg_3:

(14, 1292), (Start: 17 @1319 has 279 MA's), (34, 1421),

Gene: Avle17_3 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for Avle17_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: B1_02 Start: 1283, Stop: 1603, Start Num: 17

Candidate Starts for B1_02:

(Start: 17 @1283 has 279 MA's), (19, 1289),

Gene: Baby16_3 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for Baby16_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: BabyJohn_2 Start: 1302, Stop: 1622, Start Num: 17

Candidate Starts for BabyJohn_2:

(Start: 17 @1302 has 279 MA's), (19, 1308), (34, 1404),

Gene: BabyRay_3 Start: 1325, Stop: 1645, Start Num: 17

Candidate Starts for BabyRay_3:

(Start: 17 @1325 has 279 MA's), (19, 1331), (34, 1427),

Gene: Backyardigan_3 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for Backyardigan_3:

(14, 1299), (Start: 17 @1326 has 279 MA's), (24, 1365), (25, 1368), (34, 1428),

Gene: Badger_3 Start: 1327, Stop: 1641, Start Num: 17

Candidate Starts for Badger_3:

(14, 1300), (Start: 17 @1327 has 279 MA's), (24, 1366), (25, 1369), (34, 1429),

Gene: BangNhom_2 Start: 1323, Stop: 1637, Start Num: 17

Candidate Starts for BangNhom_2:

(Start: 17 @1323 has 279 MA's), (34, 1425),

Gene: Bartimeaus_3 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for Bartimeaus_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Battleship_7 Start: 3229, Stop: 3564, Start Num: 17

Candidate Starts for Battleship_7:

(Start: 17 @3229 has 279 MA's), (52, 3484), (56, 3538),

Gene: Beauxregard13_3 Start: 1361, Stop: 1681, Start Num: 17

Candidate Starts for Beauxregard13_3:

(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: BellusTerra_3 Start: 1257, Stop: 1640, Start Num: 11

Candidate Starts for BellusTerra_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Bigflo_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for Bigflo_3:
(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Blackmoor_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Blackmoor_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: BlueBird_3 Start: 1287, Stop: 1607, Start Num: 17
Candidate Starts for BlueBird_3:
(Start: 17 @1287 has 279 MA's), (19, 1293), (34, 1389),

Gene: Bombshell_3 Start: 1257, Stop: 1640, Start Num: 11
Candidate Starts for Bombshell_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Boohoo_6 Start: 3082, Stop: 3417, Start Num: 17
Candidate Starts for Boohoo_6:
(Start: 17 @3082 has 279 MA's), (52, 3337), (56, 3391),

Gene: BreSam8_3 Start: 1362, Stop: 1682, Start Num: 17
Candidate Starts for BreSam8_3:
(Start: 17 @1362 has 279 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: Broseidon_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Broseidon_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Bruiser_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Bruiser_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: BubbleTrouble_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for BubbleTrouble_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Bugatti_2 Start: 1287, Stop: 1607, Start Num: 17
Candidate Starts for Bugatti_2:
(Start: 17 @1287 has 279 MA's), (19, 1293), (34, 1389),

Gene: Bumblebee11_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Bumblebee11_3:
(14, 1299), (Start: 17 @1326 has 279 MA's), (24, 1365), (25, 1368), (34, 1428),

Gene: Burger_2 Start: 1257, Stop: 1640, Start Num: 11
Candidate Starts for Burger_2:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: BuzzBuzz_2 Start: 1362, Stop: 1682, Start Num: 17
Candidate Starts for BuzzBuzz_2:
(Start: 17 @1362 has 279 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: Bxz2_3 Start: 1372, Stop: 1692, Start Num: 17

Candidate Starts for Bxz2_3:

(Start: 17 @1372 has 279 MA's), (46, 1555), (54, 1660), (60, 1684),

Gene: Caelakin_3 Start: 1257, Stop: 1640, Start Num: 11

Candidate Starts for Caelakin_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Calvinny_3 Start: 1365, Stop: 1685, Start Num: 17

Candidate Starts for Calvinny_3:

(Start: 17 @1365 has 279 MA's), (60, 1677),

Gene: Camperdownii_3 Start: 1327, Stop: 1641, Start Num: 17

Candidate Starts for Camperdownii_3:

(Start: 17 @1327 has 279 MA's), (34, 1429),

Gene: Caviar_3 Start: 1308, Stop: 1628, Start Num: 17

Candidate Starts for Caviar_3:

(Start: 17 @1308 has 279 MA's), (19, 1314),

Gene: CentreCat_3 Start: 1327, Stop: 1641, Start Num: 17

Candidate Starts for CentreCat_3:

(Start: 17 @1327 has 279 MA's), (34, 1429),

Gene: Cerulean_3 Start: 1324, Stop: 1638, Start Num: 17

Candidate Starts for Cerulean_3:

(Start: 17 @1324 has 279 MA's), (34, 1426),

Gene: ChampagnePapi_3 Start: 1323, Stop: 1637, Start Num: 17

Candidate Starts for ChampagnePapi_3:

(Start: 17 @1323 has 279 MA's), (34, 1425),

Gene: Chaph_3 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for Chaph_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Chiqui_2 Start: 1302, Stop: 1622, Start Num: 17

Candidate Starts for Chiqui_2:

(Start: 17 @1302 has 279 MA's), (19, 1308), (34, 1404),

Gene: Chupacabra_3 Start: 1315, Stop: 1629, Start Num: 17

Candidate Starts for Chupacabra_3:

(Start: 17 @1315 has 279 MA's), (19, 1321), (52, 1558),

Gene: Cici_3 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for Cici_3:

(14, 1299), (Start: 17 @1326 has 279 MA's), (24, 1365), (25, 1368), (34, 1428),

Gene: Cindaradix_3 Start: 1324, Stop: 1638, Start Num: 17

Candidate Starts for Cindaradix_3:

(Start: 17 @1324 has 279 MA's), (24, 1363), (25, 1366), (34, 1426),

Gene: Cintron_3 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for Cintron_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Citius_3 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for Citius_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Clammy_2 Start: 1287, Stop: 1607, Start Num: 17

Candidate Starts for Clammy_2:

(Start: 17 @1287 has 279 MA's), (19, 1293), (34, 1389),

Gene: Clarenza_3 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for Clarenza_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Clawz_67 Start: 44832, Stop: 45194, Start Num: 13

Candidate Starts for Clawz_67:

(1, 44373), (3, 44550), (4, 44553), (5, 44610), (6, 44613), (Start: 13 @44832 has 5 MA's), (22, 44889), (26, 44910), (33, 44955), (45, 45069), (47, 45081), (48, 45096), (49, 45105), (57, 45180),

Gene: ClownCar_3 Start: 1365, Stop: 1685, Start Num: 17

Candidate Starts for ClownCar_3:

(Start: 17 @1365 has 279 MA's), (60, 1677),

Gene: Cocoaberry_3 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for Cocoaberry_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Colbster_3 Start: 1361, Stop: 1681, Start Num: 17

Candidate Starts for Colbster_3:

(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Commander_3 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for Commander_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Connomayer_3 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for Connomayer_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Croquant_4 Start: 1361, Stop: 1681, Start Num: 17

Candidate Starts for Croquant_4:

(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Cullens_3 Start: 1361, Stop: 1681, Start Num: 17

Candidate Starts for Cullens_3:

(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: DaHudson_3 Start: 1361, Stop: 1681, Start Num: 17

Candidate Starts for DaHudson_3:

(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Daishi_3 Start: 1362, Stop: 1682, Start Num: 17

Candidate Starts for Daishi_3:

(Start: 17 @1362 has 279 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: Datway_3 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for Datway_3:

(14, 1299), (Start: 17 @1326 has 279 MA's), (24, 1365), (25, 1368), (34, 1428),

Gene: Deano_3 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for Deano_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: DekHockey33_6 Start: 3229, Stop: 3564, Start Num: 17

Candidate Starts for DekHockey33_6:

(Start: 17 @3229 has 279 MA's), (52, 3484), (56, 3538),

Gene: Dhanush_3 Start: 1256, Stop: 1639, Start Num: 11

Candidate Starts for Dhanush_3:

(Start: 11 @1256 has 19 MA's), (Start: 17 @1325 has 279 MA's), (34, 1427),

Gene: Dieselweasel_3 Start: 1361, Stop: 1681, Start Num: 17

Candidate Starts for Dieselweasel_3:

(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: DirtyDunning_3 Start: 1324, Stop: 1638, Start Num: 17

Candidate Starts for DirtyDunning_3:

(Start: 11 @1255 has 19 MA's), (Start: 17 @1324 has 279 MA's), (34, 1426),

Gene: DonTron_67 Start: 45068, Stop: 45430, Start Num: 13

Candidate Starts for DonTron_67:

(Start: 13 @45068 has 5 MA's), (22, 45125), (33, 45191), (39, 45245), (47, 45317), (48, 45332), (57, 45416),

Gene: DroogsArmy_3 Start: 1254, Stop: 1577, Start Num: 17

Candidate Starts for DroogsArmy_3:

(Start: 17 @1254 has 279 MA's), (23, 1287), (28, 1326), (32, 1344), (38, 1374), (40, 1401), (52, 1500), (59, 1560),

Gene: DropBear_3 Start: 1280, Stop: 1600, Start Num: 17

Candidate Starts for DropBear_3:

(Start: 17 @1280 has 279 MA's), (19, 1286), (34, 1382),

Gene: Druantia_3 Start: 1327, Stop: 1641, Start Num: 17

Candidate Starts for Druantia_3:

(Start: 11 @1258 has 19 MA's), (Start: 17 @1327 has 279 MA's), (34, 1429),

Gene: DustyMartin_4 Start: 1329, Stop: 1664, Start Num: 17

Candidate Starts for DustyMartin_4:

(Start: 17 @1329 has 279 MA's), (19, 1335), (46, 1527), (52, 1593),

Gene: Eagle_2 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for Eagle_2:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Eaglepride_3 Start: 1327, Stop: 1662, Start Num: 17

Candidate Starts for Eaglepride_3:
(Start: 11 @1261 has 19 MA's), (Start: 17 @1327 has 279 MA's), (19, 1333), (52, 1591),

Gene: Eapen_3 Start: 1328, Stop: 1642, Start Num: 17
Candidate Starts for Eapen_3:
(Start: 17 @1328 has 279 MA's), (34, 1430),

Gene: Edison31_3 Start: 1322, Stop: 1657, Start Num: 17
Candidate Starts for Edison31_3:
(Start: 17 @1322 has 279 MA's), (19, 1328), (52, 1586),

Gene: Elle_6 Start: 2948, Stop: 3280, Start Num: 17
Candidate Starts for Elle_6:
(Start: 17 @2948 has 279 MA's), (29, 3026), (34, 3050), (46, 3134),

Gene: EpicPhail_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for EpicPhail_3:
(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Epsocamisio_6 Start: 3082, Stop: 3417, Start Num: 17
Candidate Starts for Epsocamisio_6:
(Start: 17 @3082 has 279 MA's), (52, 3337), (56, 3391),

Gene: Eris_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Eris_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Eros_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Eros_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: EtoileNova_2 Start: 1308, Stop: 1628, Start Num: 17
Candidate Starts for EtoileNova_2:
(Start: 17 @1308 has 279 MA's), (19, 1314),

Gene: Eurydice_3 Start: 1257, Stop: 1640, Start Num: 11
Candidate Starts for Eurydice_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Farber_3 Start: 1362, Stop: 1682, Start Num: 17
Candidate Starts for Farber_3:
(Start: 17 @1362 has 279 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: Fernando_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for Fernando_3:
(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Florean_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Florean_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Flux_3 Start: 1257, Stop: 1640, Start Num: 11
Candidate Starts for Flux_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: FlyCatcher_3 Start: 1258, Stop: 1575, Start Num: 17

Candidate Starts for FlyCatcher_3:

(12, 1216), (Start: 17 @1258 has 279 MA's), (24, 1294), (28, 1330), (52, 1498), (59, 1558),

Gene: Fred313_3 Start: 1280, Stop: 1600, Start Num: 17

Candidate Starts for Fred313_3:

(Start: 17 @1280 has 279 MA's), (19, 1286), (34, 1382),

Gene: Funston_3 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for Funston_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: GMA4_64 Start: 42024, Stop: 42347, Start Num: 16

Candidate Starts for GMA4_64:

(16, 42024), (58, 42333), (59, 42336),

Gene: Gadost_3 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for Gadost_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Gemma_3 Start: 1365, Stop: 1685, Start Num: 17

Candidate Starts for Gemma_3:

(Start: 17 @1365 has 279 MA's), (60, 1677),

Gene: GingkoMaracino_3 Start: 1361, Stop: 1681, Start Num: 17

Candidate Starts for GingkoMaracino_3:

(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Giroux_3 Start: 1287, Stop: 1607, Start Num: 17

Candidate Starts for Giroux_3:

(Start: 17 @1287 has 279 MA's), (19, 1293), (34, 1389),

Gene: Goose_3 Start: 1317, Stop: 1631, Start Num: 17

Candidate Starts for Goose_3:

(Start: 17 @1317 has 279 MA's), (19, 1323), (52, 1560),

Gene: Grif_3 Start: 1361, Stop: 1681, Start Num: 17

Candidate Starts for Grif_3:

(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Groupthink_4 Start: 1365, Stop: 1685, Start Num: 17

Candidate Starts for Groupthink_4:

(Start: 17 @1365 has 279 MA's), (60, 1677),

Gene: Grub_3 Start: 1361, Stop: 1681, Start Num: 17

Candidate Starts for Grub_3:

(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Grum1_3 Start: 1361, Stop: 1681, Start Num: 17

Candidate Starts for Grum1_3:

(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Grumio_67 Start: 44509, Stop: 44871, Start Num: 13

Candidate Starts for Grumio_67:

(Start: 13 @44509 has 5 MA's), (22, 44566), (33, 44632), (39, 44686), (48, 44773), (57, 44857),

Gene: GtownJaz_3 Start: 1361, Stop: 1681, Start Num: 17

Candidate Starts for GtownJaz_3:

(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Gwennie_2 Start: 1361, Stop: 1681, Start Num: 17

Candidate Starts for Gwennie_2:

(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: HINdeR_3 Start: 1249, Stop: 1572, Start Num: 17

Candidate Starts for HINdeR_3:

(Start: 17 @1249 has 279 MA's), (23, 1282), (24, 1285), (32, 1339), (38, 1369), (40, 1396), (52, 1495), (54, 1534), (59, 1555),

Gene: HamSlice_2 Start: 1327, Stop: 1641, Start Num: 17

Candidate Starts for HamSlice_2:

(Start: 17 @1327 has 279 MA's), (34, 1429),

Gene: Happiness_3 Start: 1325, Stop: 1639, Start Num: 17

Candidate Starts for Happiness_3:

(Start: 11 @1256 has 19 MA's), (Start: 17 @1325 has 279 MA's), (34, 1427),

Gene: HashRod_4 Start: 1362, Stop: 1682, Start Num: 17

Candidate Starts for HashRod_4:

(Start: 17 @1362 has 279 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: HaveUMetTed_4 Start: 1365, Stop: 1685, Start Num: 17

Candidate Starts for HaveUMetTed_4:

(Start: 17 @1365 has 279 MA's), (60, 1677),

Gene: Heathen_3 Start: 1280, Stop: 1600, Start Num: 17

Candidate Starts for Heathen_3:

(Start: 17 @1280 has 279 MA's), (19, 1286), (34, 1382),

Gene: HelDan_3 Start: 1280, Stop: 1600, Start Num: 17

Candidate Starts for HelDan_3:

(Start: 17 @1280 has 279 MA's), (19, 1286), (34, 1382),

Gene: Heliosoles_3 Start: 1365, Stop: 1685, Start Num: 17

Candidate Starts for Heliosoles_3:

(Start: 17 @1365 has 279 MA's), (60, 1677),

Gene: Hercules11_3 Start: 1361, Stop: 1681, Start Num: 17

Candidate Starts for Hercules11_3:

(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Holli_3 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for Holli_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Hookmount_3 Start: 1308, Stop: 1628, Start Num: 17

Candidate Starts for Hookmount_3:

(Start: 17 @1308 has 279 MA's), (19, 1314),

Gene: Houdini22_3 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for Houdini22_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Huxley_3 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for Huxley_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: ICleared_3 Start: 1257, Stop: 1640, Start Num: 11

Candidate Starts for ICleared_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Iceman_3 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for Iceman_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Idleandcovert_2 Start: 1287, Stop: 1607, Start Num: 17

Candidate Starts for Idleandcovert_2:

(Start: 17 @1287 has 279 MA's), (19, 1293), (34, 1389),

Gene: Iracema64_3 Start: 1257, Stop: 1640, Start Num: 11

Candidate Starts for Iracema64_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Isca_3 Start: 1285, Stop: 1605, Start Num: 17

Candidate Starts for Isca_3:

(Start: 17 @1285 has 279 MA's), (19, 1291),

Gene: JF2_3 Start: 1283, Stop: 1603, Start Num: 17

Candidate Starts for JF2_3:

(Start: 17 @1283 has 279 MA's), (19, 1289),

Gene: JF4_3 Start: 1283, Stop: 1603, Start Num: 17

Candidate Starts for JF4_3:

(Start: 17 @1283 has 279 MA's), (19, 1289),

Gene: JHC117_3 Start: 1361, Stop: 1681, Start Num: 17

Candidate Starts for JHC117_3:

(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: JSwag_6 Start: 3082, Stop: 3417, Start Num: 17

Candidate Starts for JSwag_6:

(Start: 17 @3082 has 279 MA's), (52, 3337), (56, 3391),

Gene: Jaykayelowell_3 Start: 1325, Stop: 1639, Start Num: 17

Candidate Starts for Jaykayelowell_3:

(Start: 17 @1325 has 279 MA's), (34, 1427),

Gene: JenCasNa_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for JenCasNa_3:
(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: JeppNRM_4 Start: 1365, Stop: 1685, Start Num: 17
Candidate Starts for JeppNRM_4:
(Start: 17 @1365 has 279 MA's), (60, 1677),

Gene: JetBlade_3 Start: 1257, Stop: 1640, Start Num: 11
Candidate Starts for JetBlade_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Jobu08_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for Jobu08_3:
(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: JoongJeon_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for JoongJeon_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: KADY_4 Start: 1362, Stop: 1682, Start Num: 17
Candidate Starts for KADY_4:
(Start: 17 @1362 has 279 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: KFPoly_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for KFPoly_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Kachowdy_3 Start: 1280, Stop: 1600, Start Num: 17
Candidate Starts for Kachowdy_3:
(Start: 17 @1280 has 279 MA's), (19, 1286), (34, 1382),

Gene: Kalb97_4 Start: 1363, Stop: 1683, Start Num: 17
Candidate Starts for Kalb97_4:
(Start: 17 @1363 has 279 MA's), (60, 1675),

Gene: Kalnoky_4 Start: 1365, Stop: 1685, Start Num: 17
Candidate Starts for Kalnoky_4:
(Start: 17 @1365 has 279 MA's), (60, 1677),

Gene: Kampy_3 Start: 1327, Stop: 1641, Start Num: 17
Candidate Starts for Kampy_3:
(Start: 17 @1327 has 279 MA's), (34, 1429),

Gene: Katalie136_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Katalie136_3:
(14, 1299), (Start: 17 @1326 has 279 MA's), (24, 1365), (25, 1368), (34, 1428),

Gene: KatherineG_6 Start: 3229, Stop: 3564, Start Num: 17
Candidate Starts for KatherineG_6:
(Start: 17 @3229 has 279 MA's), (52, 3484), (56, 3538),

Gene: KekoraPapaka_2 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for KekoraPapaka_2:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Kingmustik0402_3 Start: 1327, Stop: 1641, Start Num: 17
Candidate Starts for Kingmustik0402_3:
(Start: 17 @1327 has 279 MA's), (34, 1429),

Gene: KingstonB_65 Start: 44506, Stop: 44868, Start Num: 13
Candidate Starts for KingstonB_65:
(Start: 13 @44506 has 5 MA's), (22, 44563), (33, 44629), (39, 44683), (48, 44770), (57, 44854),

Gene: Koan_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Koan_3:
(Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Koreni_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Koreni_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Kratark_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Kratark_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Kremtemulon_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Kremtemulon_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Kristoff_4 Start: 1487, Stop: 1822, Start Num: 17
Candidate Starts for Kristoff_4:
(Start: 17 @1487 has 279 MA's), (19, 1493), (52, 1751),

Gene: Kyee_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Kyee_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: LBerry_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for LBerry_3:
(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: LHTSCC_3 Start: 1323, Stop: 1637, Start Num: 17
Candidate Starts for LHTSCC_3:
(Start: 17 @1323 has 279 MA's), (34, 1425),

Gene: Lambert1_3 Start: 1308, Stop: 1628, Start Num: 17
Candidate Starts for Lambert1_3:
(Start: 17 @1308 has 279 MA's), (19, 1314),

Gene: LappelDuVide_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for LappelDuVide_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: LarryKay_3 Start: 1362, Stop: 1682, Start Num: 17
Candidate Starts for LarryKay_3:

(Start: 17 @1362 has 279 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: LastResort_6 Start: 3082, Stop: 3417, Start Num: 17

Candidate Starts for LastResort_6:

(Start: 17 @3082 has 279 MA's), (52, 3337), (56, 3391),

Gene: Lemur_3 Start: 1257, Stop: 1640, Start Num: 11

Candidate Starts for Lemur_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: LeoAvram_3 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for LeoAvram_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Lilith_3 Start: 1362, Stop: 1682, Start Num: 17

Candidate Starts for Lilith_3:

(Start: 17 @1362 has 279 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: LittleB_3 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for LittleB_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: LittleGuy_3 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for LittleGuy_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: LochMonster_3 Start: 1324, Stop: 1638, Start Num: 17

Candidate Starts for LochMonster_3:

(Start: 11 @1255 has 19 MA's), (Start: 17 @1324 has 279 MA's), (34, 1426),

Gene: LogiBear_6 Start: 3135, Stop: 3464, Start Num: 17

Candidate Starts for LogiBear_6:

(Start: 17 @3135 has 279 MA's), (31, 3219), (56, 3441), (58, 3444),

Gene: Looper_6 Start: 3082, Stop: 3417, Start Num: 17

Candidate Starts for Looper_6:

(Start: 17 @3082 has 279 MA's), (52, 3337), (56, 3391),

Gene: Lorenzo_3 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for Lorenzo_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Louie6_3 Start: 1362, Stop: 1682, Start Num: 17

Candidate Starts for Louie6_3:

(Start: 17 @1362 has 279 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: Lowa_3 Start: 1361, Stop: 1681, Start Num: 17

Candidate Starts for Lowa_3:

(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: LugYA_5 Start: 1361, Stop: 1681, Start Num: 17

Candidate Starts for LugYA_5:

(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Lunsford_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Lunsford_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: MA5_3 Start: 1297, Stop: 1617, Start Num: 17
Candidate Starts for MA5_3:
(Start: 17 @1297 has 279 MA's), (19, 1303), (34, 1399), (36, 1411),

Gene: MK4_3 Start: 1283, Stop: 1603, Start Num: 17
Candidate Starts for MK4_3:
(Start: 17 @1283 has 279 MA's), (19, 1289),

Gene: MadMarie_3 Start: 1362, Stop: 1682, Start Num: 17
Candidate Starts for MadMarie_3:
(Start: 17 @1362 has 279 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: Mainiac_3 Start: 1362, Stop: 1682, Start Num: 17
Candidate Starts for Mainiac_3:
(Start: 17 @1362 has 279 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: Makar_68 Start: 44859, Stop: 45221, Start Num: 13
Candidate Starts for Makar_68:
(1, 44400), (3, 44577), (4, 44580), (5, 44637), (6, 44640), (Start: 13 @44859 has 5 MA's), (22, 44916),
(26, 44937), (33, 44982), (45, 45096), (47, 45108), (48, 45123), (49, 45132), (57, 45207),

Gene: Malinsilva_5 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for Malinsilva_5:
(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Manu_4 Start: 1365, Stop: 1685, Start Num: 17
Candidate Starts for Manu_4:
(Start: 17 @1365 has 279 MA's), (60, 1677),

Gene: MarQuardt_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for MarQuardt_3:
(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Marchesa_3 Start: 1280, Stop: 1600, Start Num: 17
Candidate Starts for Marchesa_3:
(Start: 17 @1280 has 279 MA's), (19, 1286), (34, 1382),

Gene: Margo_3 Start: 1308, Stop: 1628, Start Num: 17
Candidate Starts for Margo_3:
(Start: 17 @1308 has 279 MA's), (19, 1314),

Gene: Marie_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for Marie_3:
(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Marius_4 Start: 1365, Stop: 1685, Start Num: 17
Candidate Starts for Marius_4:
(Start: 17 @1365 has 279 MA's), (60, 1677),

Gene: Maverick_3 Start: 1257, Stop: 1640, Start Num: 11
Candidate Starts for Maverick_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Maxo_3 Start: 1327, Stop: 1641, Start Num: 17
Candidate Starts for Maxo_3:
(Start: 17 @1327 has 279 MA's), (34, 1429),

Gene: Mayonnaise_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Mayonnaise_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Mazhar510_3 Start: 1327, Stop: 1641, Start Num: 17
Candidate Starts for Mazhar510_3:
(Start: 11 @1258 has 19 MA's), (Start: 17 @1327 has 279 MA's), (34, 1429),

Gene: Medusa_3 Start: 1257, Stop: 1640, Start Num: 11
Candidate Starts for Medusa_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: MeeZee_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for MeeZee_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Melvin_3 Start: 1257, Stop: 1640, Start Num: 11
Candidate Starts for Melvin_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Methuselah_3 Start: 1362, Stop: 1682, Start Num: 17
Candidate Starts for Methuselah_3:
(Start: 17 @1362 has 279 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: Microwolf_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for Microwolf_3:
(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Millski_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Millski_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: MinecraftSteve_7 Start: 3229, Stop: 3564, Start Num: 17
Candidate Starts for MinecraftSteve_7:
(Start: 17 @3229 has 279 MA's), (52, 3484), (56, 3538),

Gene: Miramae_3 Start: 1319, Stop: 1633, Start Num: 17
Candidate Starts for Miramae_3:
(14, 1292), (Start: 17 @1319 has 279 MA's), (34, 1421),

Gene: Misomonster_5 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for Misomonster_5:
(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: MoneyMay_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for MoneyMay_3:
(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Montavir_2 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for Montavir_2:
(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Morpher26_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Morpher26_3:
(14, 1299), (Start: 17 @1326 has 279 MA's), (24, 1365), (25, 1368), (34, 1428),

Gene: Morrow_3 Start: 1257, Stop: 1640, Start Num: 11
Candidate Starts for Morrow_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: MuchMore_5 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for MuchMore_5:
(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Mundrea_3 Start: 1324, Stop: 1638, Start Num: 17
Candidate Starts for Mundrea_3:
(15, 1309), (Start: 17 @1324 has 279 MA's), (24, 1363), (25, 1366), (34, 1426),

Gene: MyraDee_3 Start: 1206, Stop: 1520, Start Num: 17
Candidate Starts for MyraDee_3:
(2, 846), (Start: 17 @1206 has 279 MA's), (52, 1449), (59, 1509),

Gene: Nebs_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Nebs_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Nebulosus_6 Start: 3082, Stop: 3417, Start Num: 17
Candidate Starts for Nebulosus_6:
(Start: 17 @3082 has 279 MA's), (52, 3337), (56, 3391),

Gene: Nedarya_6 Start: 3048, Stop: 3386, Start Num: 17
Candidate Starts for Nedarya_6:
(Start: 17 @3048 has 279 MA's), (31, 3135), (41, 3204), (52, 3306),

Gene: Nemo27_3 Start: 1256, Stop: 1639, Start Num: 11
Candidate Starts for Nemo27_3:
(Start: 11 @1256 has 19 MA's), (Start: 17 @1325 has 279 MA's), (34, 1427),

Gene: Noella_3 Start: 1308, Stop: 1628, Start Num: 17
Candidate Starts for Noella_3:
(Start: 17 @1308 has 279 MA's), (19, 1314),

Gene: Noelle_3 Start: 1311, Stop: 1625, Start Num: 17
Candidate Starts for Noelle_3:
(Start: 17 @1311 has 279 MA's), (24, 1350), (25, 1353), (34, 1413),

Gene: Norbert_2 Start: 1308, Stop: 1628, Start Num: 17

Candidate Starts for Norbert_2:
(Start: 17 @1308 has 279 MA's), (19, 1314),

Gene: NorthStar_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for NorthStar_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: NotAPhaseMom_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for NotAPhaseMom_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Nyxis_3 Start: 1329, Stop: 1643, Start Num: 17
Candidate Starts for Nyxis_3:
(Start: 17 @1329 has 279 MA's), (34, 1431),

Gene: OKCentral2016_3 Start: 1319, Stop: 1633, Start Num: 17
Candidate Starts for OKCentral2016_3:
(Start: 17 @1319 has 279 MA's), (19, 1325), (52, 1562),

Gene: OKaNui_3 Start: 1325, Stop: 1639, Start Num: 17
Candidate Starts for OKaNui_3:
(Start: 11 @1256 has 19 MA's), (Start: 17 @1325 has 279 MA's), (34, 1427),

Gene: Obama12_3 Start: 1325, Stop: 1639, Start Num: 17
Candidate Starts for Obama12_3:
(Start: 17 @1325 has 279 MA's), (34, 1427),

Gene: Ohfah_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Ohfah_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: OlanP_3 Start: 1544, Stop: 1864, Start Num: 17
Candidate Starts for OlanP_3:
(Start: 17 @1544 has 279 MA's), (60, 1856),

Gene: Ollie_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for Ollie_3:
(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Onglai_6 Start: 3230, Stop: 3556, Start Num: 17
Candidate Starts for Onglai_6:
(Start: 17 @3230 has 279 MA's), (42, 3401), (51, 3473), (52, 3485), (58, 3542), (60, 3548),

Gene: Oofda_6 Start: 3085, Stop: 3420, Start Num: 17
Candidate Starts for Oofda_6:
(Start: 17 @3085 has 279 MA's), (52, 3340), (56, 3394),

Gene: P28Green_3 Start: 1362, Stop: 1682, Start Num: 17
Candidate Starts for P28Green_3:
(Start: 17 @1362 has 279 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: PGHhamlin_5 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for PGHhamlin_5:

(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Palestino_3 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for Palestino_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Panamaxus_3 Start: 1308, Stop: 1628, Start Num: 17

Candidate Starts for Panamaxus_3:

(Start: 17 @1308 has 279 MA's), (19, 1314),

Gene: Pawn_3 Start: 1365, Stop: 1685, Start Num: 17

Candidate Starts for Pawn_3:

(Start: 17 @1365 has 279 MA's), (60, 1677),

Gene: Peaches_3 Start: 1257, Stop: 1640, Start Num: 11

Candidate Starts for Peaches_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Pembroke_3 Start: 1361, Stop: 1681, Start Num: 17

Candidate Starts for Pembroke_3:

(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Penny1_3 Start: 1361, Stop: 1681, Start Num: 17

Candidate Starts for Penny1_3:

(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Perplexer_3 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for Perplexer_3:

(14, 1299), (Start: 17 @1326 has 279 MA's), (24, 1365), (25, 1368), (34, 1428),

Gene: PeterPeter_3 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for PeterPeter_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: PetiteSangsue_3 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for PetiteSangsue_3:

(14, 1299), (Start: 17 @1326 has 279 MA's), (24, 1365), (25, 1368), (34, 1428),

Gene: Phacado_3 Start: 1325, Stop: 1639, Start Num: 17

Candidate Starts for Phacado_3:

(Start: 11 @1256 has 19 MA's), (Start: 17 @1325 has 279 MA's), (34, 1427),

Gene: Phantastic_3 Start: 1292, Stop: 1612, Start Num: 17

Candidate Starts for Phantastic_3:

(Start: 17 @1292 has 279 MA's), (19, 1298), (34, 1394),

Gene: Phelipe_3 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for Phelipe_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Phighter1804_3 Start: 1325, Stop: 1639, Start Num: 17

Candidate Starts for Phighter1804_3:

(Start: 17 @1325 has 279 MA's), (34, 1427),

Gene: PhishRPhriends_3 Start: 1366, Stop: 1686, Start Num: 17

Candidate Starts for PhishRPhriends_3:

(Start: 17 @1366 has 279 MA's), (60, 1678),

Gene: Phoebe_3 Start: 1361, Stop: 1681, Start Num: 17

Candidate Starts for Phoebe_3:

(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Phontbonne_3 Start: 1324, Stop: 1638, Start Num: 17

Candidate Starts for Phontbonne_3:

(Start: 11 @1255 has 19 MA's), (Start: 17 @1324 has 279 MA's), (34, 1426),

Gene: Phoxy_3 Start: 1362, Stop: 1682, Start Num: 17

Candidate Starts for Phoxy_3:

(Start: 17 @1362 has 279 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: Phranny_4 Start: 1365, Stop: 1685, Start Num: 17

Candidate Starts for Phranny_4:

(Start: 17 @1365 has 279 MA's), (60, 1677),

Gene: Pipcraft_3 Start: 1257, Stop: 1640, Start Num: 11

Candidate Starts for Pipcraft_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Pistachio_3 Start: 1287, Stop: 1607, Start Num: 17

Candidate Starts for Pistachio_3:

(Start: 17 @1287 has 279 MA's), (19, 1293), (34, 1389),

Gene: Pocahontas_3 Start: 1308, Stop: 1628, Start Num: 17

Candidate Starts for Pocahontas_3:

(Start: 17 @1308 has 279 MA's), (19, 1314),

Gene: Polymorphads_3 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for Polymorphads_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Popcicle_3 Start: 1308, Stop: 1628, Start Num: 17

Candidate Starts for Popcicle_3:

(Start: 17 @1308 has 279 MA's), (19, 1314),

Gene: PotatoSplit_4 Start: 1361, Stop: 1681, Start Num: 17

Candidate Starts for PotatoSplit_4:

(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Pumbaa_3 Start: 1324, Stop: 1638, Start Num: 17

Candidate Starts for Pumbaa_3:

(Start: 11 @1255 has 19 MA's), (Start: 17 @1324 has 279 MA's), (34, 1426),

Gene: Puppy_3 Start: 1287, Stop: 1607, Start Num: 17

Candidate Starts for Puppy_3:

(Start: 17 @1287 has 279 MA's), (19, 1293), (34, 1389),

Gene: PurpleHaze_3 Start: 1364, Stop: 1684, Start Num: 17
Candidate Starts for PurpleHaze_3:
(Start: 17 @1364 has 279 MA's), (60, 1676),

Gene: QuinnKiro_2 Start: 1308, Stop: 1628, Start Num: 17
Candidate Starts for QuinnKiro_2:
(Start: 17 @1308 has 279 MA's), (19, 1314),

Gene: Ravana_6 Start: 3082, Stop: 3417, Start Num: 17
Candidate Starts for Ravana_6:
(Start: 17 @3082 has 279 MA's), (52, 3337), (56, 3391),

Gene: ReMo_6 Start: 3082, Stop: 3417, Start Num: 17
Candidate Starts for ReMo_6:
(Start: 17 @3082 has 279 MA's), (52, 3337), (56, 3391),

Gene: Reba_4 Start: 1365, Stop: 1685, Start Num: 17
Candidate Starts for Reba_4:
(Start: 17 @1365 has 279 MA's), (60, 1677),

Gene: Rebeuca_4 Start: 1488, Stop: 1823, Start Num: 17
Candidate Starts for Rebeuca_4:
(Start: 17 @1488 has 279 MA's), (19, 1494), (52, 1752),

Gene: Relief_3 Start: 1327, Stop: 1641, Start Num: 17
Candidate Starts for Relief_3:
(Start: 17 @1327 has 279 MA's), (34, 1429),

Gene: Remus_6 Start: 3082, Stop: 3417, Start Num: 17
Candidate Starts for Remus_6:
(Start: 17 @3082 has 279 MA's), (52, 3337), (56, 3391),

Gene: ResDef_3 Start: 1308, Stop: 1628, Start Num: 17
Candidate Starts for ResDef_3:
(Start: 17 @1308 has 279 MA's), (19, 1314),

Gene: RhynO_3 Start: 1333, Stop: 1668, Start Num: 17
Candidate Starts for RhynO_3:
(8, 1126), (9, 1180), (10, 1204), (Start: 17 @1333 has 279 MA's), (19, 1339), (52, 1597),

Gene: RockieBear_2 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for RockieBear_2:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Rockstar_3 Start: 1283, Stop: 1603, Start Num: 17
Candidate Starts for Rockstar_3:
(Start: 17 @1283 has 279 MA's), (19, 1289), (55, 1583),

Gene: Roimos_3 Start: 1282, Stop: 1602, Start Num: 17
Candidate Starts for Roimos_3:
(Start: 17 @1282 has 279 MA's), (19, 1288), (34, 1384),

Gene: Romney_3 Start: 1325, Stop: 1639, Start Num: 17

Candidate Starts for Romney_3:
(Start: 17 @1325 has 279 MA's), (34, 1427),

Gene: Roosevelt_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Roosevelt_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Rosa24_2 Start: 1324, Stop: 1638, Start Num: 17
Candidate Starts for Rosa24_2:
(Start: 11 @1255 has 19 MA's), (Start: 17 @1324 has 279 MA's), (34, 1426),

Gene: Rosalind_6 Start: 3229, Stop: 3564, Start Num: 17
Candidate Starts for Rosalind_6:
(Start: 17 @3229 has 279 MA's), (52, 3484), (56, 3538),

Gene: Rowdy_4 Start: 1329, Stop: 1664, Start Num: 17
Candidate Starts for Rowdy_4:
(Start: 17 @1329 has 279 MA's), (19, 1335), (46, 1527), (52, 1593),

Gene: Ruin_3 Start: 1325, Stop: 1639, Start Num: 17
Candidate Starts for Ruin_3:
(Start: 11 @1256 has 19 MA's), (Start: 17 @1325 has 279 MA's), (34, 1427),

Gene: Rummer_3 Start: 1362, Stop: 1682, Start Num: 17
Candidate Starts for Rummer_3:
(Start: 17 @1362 has 279 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: Sabertooth_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Sabertooth_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Sabia_3 Start: 1362, Stop: 1682, Start Num: 17
Candidate Starts for Sabia_3:
(Start: 17 @1362 has 279 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: Sabinator_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for Sabinator_3:
(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: SaturnRing_2 Start: 1287, Stop: 1607, Start Num: 17
Candidate Starts for SaturnRing_2:
(Start: 17 @1287 has 279 MA's), (19, 1293), (34, 1389),

Gene: Scamp_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Scamp_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Scout_3 Start: 1280, Stop: 1600, Start Num: 17
Candidate Starts for Scout_3:
(Start: 17 @1280 has 279 MA's), (19, 1286), (34, 1382),

Gene: SenorClean_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for SenorClean_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Shaka_3 Start: 1257, Stop: 1640, Start Num: 11

Candidate Starts for Shaka_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Shapes_4 Start: 1329, Stop: 1664, Start Num: 17

Candidate Starts for Shapes_4:

(Start: 17 @1329 has 279 MA's), (19, 1335), (46, 1527), (52, 1593),

Gene: ShayRa_7 Start: 3229, Stop: 3564, Start Num: 17

Candidate Starts for ShayRa_7:

(Start: 17 @3229 has 279 MA's), (52, 3484), (56, 3538),

Gene: Sheen_3 Start: 1259, Stop: 1576, Start Num: 17

Candidate Starts for Sheen_3:

(12, 1217), (Start: 17 @1259 has 279 MA's), (24, 1295), (28, 1331), (52, 1499), (59, 1559),

Gene: SheldonCooper_3 Start: 1324, Stop: 1638, Start Num: 17

Candidate Starts for SheldonCooper_3:

(Start: 17 @1324 has 279 MA's), (34, 1426),

Gene: Shygu2_3 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for Shygu2_3:

(14, 1299), (Start: 17 @1326 has 279 MA's), (24, 1365), (25, 1368), (34, 1428), (50, 1554),

Gene: Skipitt_3 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for Skipitt_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Snickers_3 Start: 1361, Stop: 1681, Start Num: 17

Candidate Starts for Snickers_3:

(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: SoYo_3 Start: 1361, Stop: 1681, Start Num: 17

Candidate Starts for SoYo_3:

(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: SoilDragon_3 Start: 1361, Stop: 1681, Start Num: 17

Candidate Starts for SoilDragon_3:

(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Soos_63 Start: 44235, Stop: 44597, Start Num: 13

Candidate Starts for Soos_63:

(Start: 13 @44235 has 5 MA's), (22, 44292), (33, 44358), (39, 44412), (48, 44499), (57, 44583),

Gene: Soshari_5 Start: 1362, Stop: 1682, Start Num: 17

Candidate Starts for Soshari_5:

(Start: 17 @1362 has 279 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: Soups_6 Start: 3229, Stop: 3564, Start Num: 17

Candidate Starts for Soups_6:

(Start: 17 @3229 has 279 MA's), (52, 3484), (56, 3538),

Gene: Sparxx_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Sparxx_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Spike509_3 Start: 1362, Stop: 1682, Start Num: 17
Candidate Starts for Spike509_3:
(Start: 17 @1362 has 279 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: Spino_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Spino_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Stagni_3 Start: 1362, Stop: 1682, Start Num: 17
Candidate Starts for Stagni_3:
(Start: 17 @1362 has 279 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: Stasia_3 Start: 1329, Stop: 1643, Start Num: 17
Candidate Starts for Stasia_3:
(15, 1314), (Start: 17 @1329 has 279 MA's), (24, 1368), (25, 1371), (34, 1431), (37, 1449),

Gene: SteMason_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for SteMason_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: StepMih_3 Start: 1362, Stop: 1682, Start Num: 17
Candidate Starts for StepMih_3:
(Start: 17 @1362 has 279 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: Stillion_67 Start: 44832, Stop: 45194, Start Num: 13
Candidate Starts for Stillion_67:
(6, 44613), (7, 44646), (Start: 13 @44832 has 5 MA's), (22, 44889), (33, 44955), (39, 45009), (48, 45096), (57, 45180),

Gene: Sting_66 Start: 44674, Stop: 45036, Start Num: 13
Candidate Starts for Sting_66:
(Start: 13 @44674 has 5 MA's), (22, 44731), (33, 44797), (39, 44851), (48, 44938), (57, 45022),

Gene: Stink_3 Start: 1320, Stop: 1634, Start Num: 17
Candidate Starts for Stink_3:
(14, 1293), (Start: 17 @1320 has 279 MA's), (34, 1422),

Gene: Strosahl_6 Start: 3082, Stop: 3417, Start Num: 17
Candidate Starts for Strosahl_6:
(Start: 17 @3082 has 279 MA's), (52, 3337), (56, 3391),

Gene: Sultana_3 Start: 1327, Stop: 1641, Start Num: 17
Candidate Starts for Sultana_3:
(Start: 11 @1258 has 19 MA's), (Start: 17 @1327 has 279 MA's), (34, 1429),

Gene: Switzerland_6 Start: 3229, Stop: 3564, Start Num: 17
Candidate Starts for Switzerland_6:
(Start: 17 @3229 has 279 MA's), (52, 3484), (56, 3538),

Gene: TNguyen7_3 Start: 1285, Stop: 1605, Start Num: 17

Candidate Starts for TNguyen7_3:

(Start: 17 @1285 has 279 MA's), (19, 1291), (34, 1387),

Gene: Taquarus_3 Start: 1329, Stop: 1643, Start Num: 17

Candidate Starts for Taquarus_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1329 has 279 MA's), (34, 1431),

Gene: Taurus_3 Start: 1361, Stop: 1681, Start Num: 17

Candidate Starts for Taurus_3:

(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Texage_2 Start: 1308, Stop: 1628, Start Num: 17

Candidate Starts for Texage_2:

(Start: 17 @1308 has 279 MA's), (19, 1314),

Gene: Thanksgivukkah_3 Start: 1327, Stop: 1641, Start Num: 17

Candidate Starts for Thanksgivukkah_3:

(Start: 11 @1258 has 19 MA's), (Start: 17 @1327 has 279 MA's), (34, 1429),

Gene: Tiffany_3 Start: 1362, Stop: 1682, Start Num: 17

Candidate Starts for Tiffany_3:

(Start: 17 @1362 has 279 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: Timshel_3 Start: 1254, Stop: 1577, Start Num: 17

Candidate Starts for Timshel_3:

(Start: 17 @1254 has 279 MA's), (23, 1287), (24, 1290), (28, 1326), (32, 1344), (38, 1374), (40, 1401), (52, 1500), (59, 1560),

Gene: TinaFeyge_3 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for TinaFeyge_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: TinyPebbles_3 Start: 1362, Stop: 1682, Start Num: 17

Candidate Starts for TinyPebbles_3:

(Start: 17 @1362 has 279 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: Tinybot_2 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for Tinybot_2:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: TiroTheta9_3 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for TiroTheta9_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Todacoro_3 Start: 1308, Stop: 1628, Start Num: 17

Candidate Starts for Todacoro_3:

(Start: 17 @1308 has 279 MA's), (19, 1314),

Gene: Tonitrus_54 Start: 41488, Stop: 41835, Start Num: 20

Candidate Starts for Tonitrus_54:

(19, 41485), (Start: 20 @41488 has 1 MA's), (25, 41527), (27, 41536), (30, 41569), (35, 41596), (39, 41635), (43, 41677), (44, 41680), (49, 41731), (53, 41800), (57, 41818),

Gene: Topanga_3 Start: 1371, Stop: 1706, Start Num: 17

Candidate Starts for Topanga_3:

(Start: 17 @1371 has 279 MA's), (21, 1392),

Gene: Toro_3 Start: 1258, Stop: 1575, Start Num: 17

Candidate Starts for Toro_3:

(12, 1216), (Start: 17 @1258 has 279 MA's), (24, 1294), (28, 1330), (52, 1498), (59, 1558),

Gene: TroyPia_3 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for TroyPia_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Twister_3 Start: 1321, Stop: 1656, Start Num: 17

Candidate Starts for Twister_3:

(Start: 17 @1321 has 279 MA's), (19, 1327), (52, 1585),

Gene: TygerBlood_3 Start: 1328, Stop: 1642, Start Num: 17

Candidate Starts for TygerBlood_3:

(Start: 11 @1259 has 19 MA's), (Start: 17 @1328 has 279 MA's), (34, 1430),

Gene: Ulysses_3 Start: 1327, Stop: 1641, Start Num: 17

Candidate Starts for Ulysses_3:

(Start: 11 @1258 has 19 MA's), (Start: 17 @1327 has 279 MA's), (34, 1429),

Gene: Veracruz_2 Start: 1308, Stop: 1628, Start Num: 17

Candidate Starts for Veracruz_2:

(Start: 17 @1308 has 279 MA's), (19, 1314),

Gene: Vix_3 Start: 1361, Stop: 1681, Start Num: 17

Candidate Starts for Vix_3:

(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Waits_6 Start: 3081, Stop: 3416, Start Num: 17

Candidate Starts for Waits_6:

(Start: 17 @3081 has 279 MA's), (52, 3336), (56, 3390),

Gene: WalterMcMickey_3 Start: 1321, Stop: 1656, Start Num: 17

Candidate Starts for WalterMcMickey_3:

(Start: 17 @1321 has 279 MA's), (19, 1327), (52, 1585),

Gene: Wander_3 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for Wander_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Warrior24_6 Start: 3085, Stop: 3420, Start Num: 17

Candidate Starts for Warrior24_6:

(Start: 17 @3085 has 279 MA's), (52, 3340), (56, 3394),

Gene: Watson_3 Start: 1361, Stop: 1681, Start Num: 17

Candidate Starts for Watson_3:

(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Wilbur_3 Start: 1325, Stop: 1639, Start Num: 17

Candidate Starts for Wilbur_3:

(Start: 17 @1325 has 279 MA's), (34, 1427),

Gene: Wile_3 Start: 1327, Stop: 1641, Start Num: 17

Candidate Starts for Wile_3:

(14, 1300), (Start: 17 @1327 has 279 MA's), (24, 1366), (25, 1369), (34, 1429),

Gene: Wizard007_3 Start: 1328, Stop: 1642, Start Num: 17

Candidate Starts for Wizard007_3:

(Start: 11 @1259 has 19 MA's), (Start: 17 @1328 has 279 MA's), (34, 1430),

Gene: Wooldri_5 Start: 1361, Stop: 1681, Start Num: 17

Candidate Starts for Wooldri_5:

(Start: 17 @1361 has 279 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Xena_3 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for Xena_3:

(14, 1299), (Start: 17 @1326 has 279 MA's), (24, 1365), (25, 1368), (34, 1428),

Gene: YoSam321_3 Start: 1326, Stop: 1640, Start Num: 17

Candidate Starts for YoSam321_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 279 MA's), (34, 1428),

Gene: Zarafa_3 Start: 1280, Stop: 1600, Start Num: 17

Candidate Starts for Zarafa_3:

(Start: 17 @1280 has 279 MA's), (19, 1286), (34, 1382),

Gene: Zetzy_3 Start: 1363, Stop: 1683, Start Num: 17

Candidate Starts for Zetzy_3:

(Start: 17 @1363 has 279 MA's), (60, 1675),