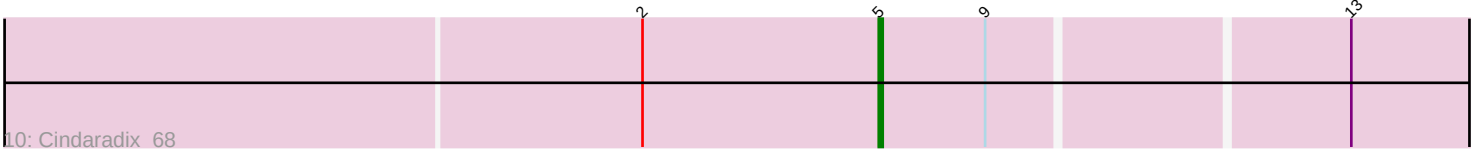
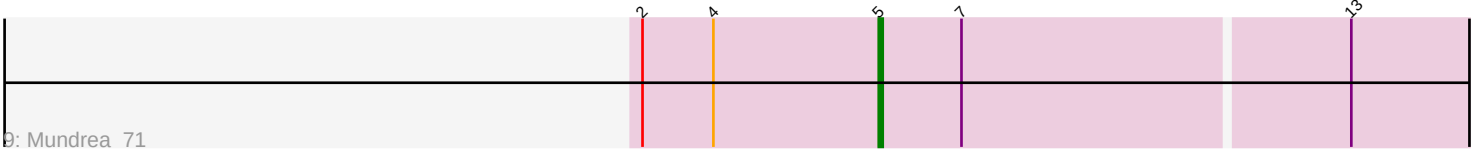
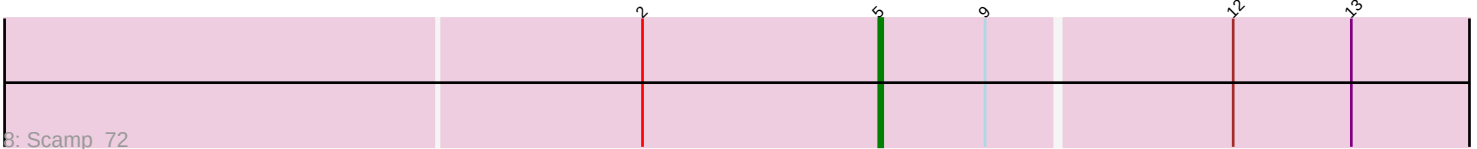
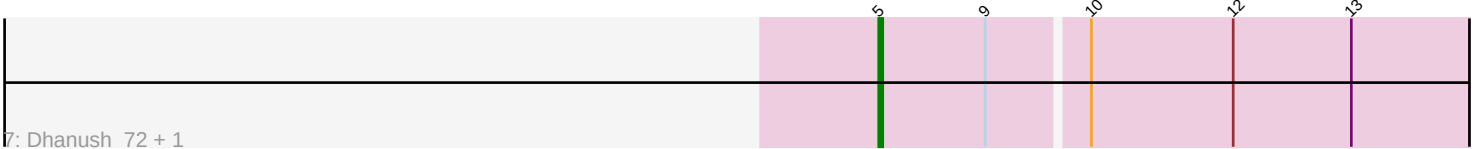
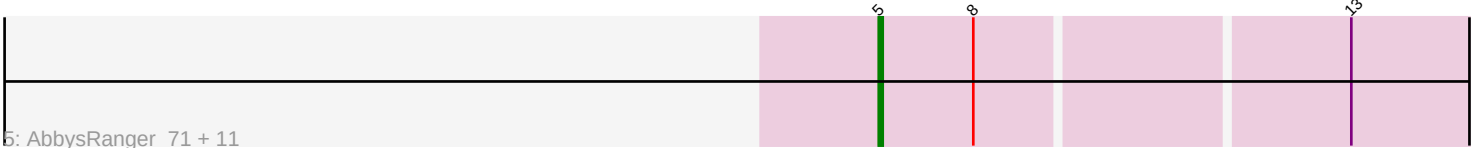
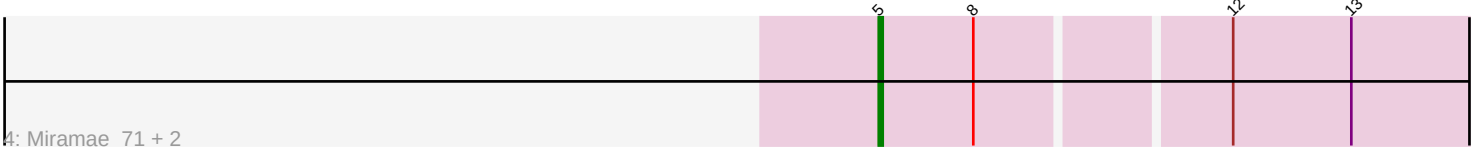
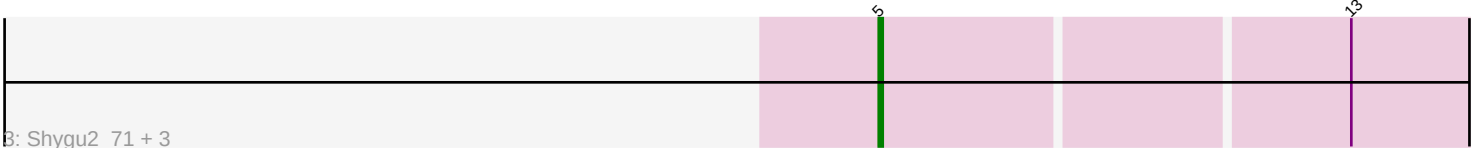
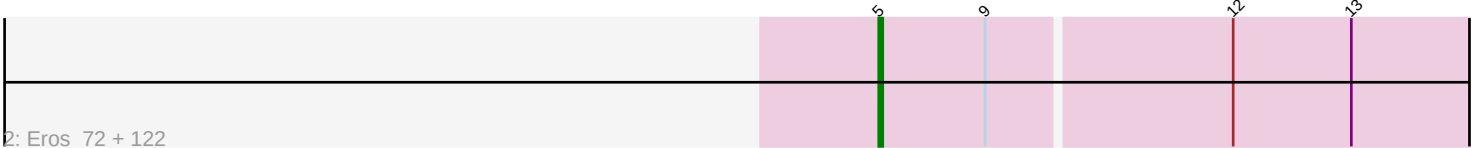


Pham 330571



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 330571 Report

This analysis was run 09/05/26 on database version 662.

Pham number 330571 has 150 members, 8 are drafts.

Phages represented in each track:

- Track 1 : Pukovnik_75
- Track 2 : Eros_72, Holli_71, Palestino_71, Kratark_71, Sabertooth_72, TiroTheta9_71, DirtyDunning_71, MeeZee_71, Caelakin_71, OKaNui_71, Skipitt_71, Mayonnaise_69, Obama12_73, LochMonster_73, Kingmustik0402_72, Clarenza_71, Maverick_71, Kampy_71, Iceman_71, Eagle_71, LappelDuVide_72, Mazhar510_72, JoongJeon_71, Melvin_74, Northrop_69, Happiness_71, Burger_70, Peaches_70, Phacado_72, Blackmoor_71, Sparxx_73, Rocksand_69, Romney_71, Pumbaa_72, Iracema64_72, KekoraPapaka_69, Koan_69, Houdini22_71, BubbleTrouble_71, Eapen_72, Shaka_70, Cintron_73, PeterPeter_72, JetBlade_73, Spino_71, Avle17_72, NotAPhaseMom_71, HamSlice_68, Ohfah_73, SenorClean_73, Roosevelt_70, NorthStar_70, Deano_69, Jaykayelowell_69, KFPoly_71, Phelipe_73, Broseidon_72, Connomayer_72, Bartimeaus_72, CocoaBerry_72, TroyPia_73, SheldonCooper_72, Lorenzo_72, LeoAvram_71, Florean_72, BangNhom_70, Commander_70, LittleGuy_72, YoSam321_72, Alberto7_73, Taquarus_71, Bruiser_71, Wilbur_72, Skadoosh_70, Druantia_71, Buckaroo_68, Relief_71, Kyee_72, TinaFeyge_70, ChampagnePapi_75, Arturo_69, CentreCat_72, BellusTerra_73, LHTSCC_74, Ruin_72, Wander_72, SteMason_72, TygerBlood_72, Albee_72, Annyong_71, Polymorphads_73, Thanksgivukkah_71, Koreni_71, Pipcraft_69, Citius_72, Maxo_74, Flux_73, Junimo_68, Baby16_72, Lemur_72, Camperdownii_70, Nemo27_71, Tinybot_71, RockieBear_69, Gadost_72, Lunsford_72, LittleB_72, Bombshell_72, Eurydice_73, Morrow_74, Nebs_73, Medusa_72, Eris_71, Rosa24_69, Ulysses_71, Phighter1804_72, Sultana_72, Chaph_72, Funston_71, Kremtemulon_71, Nyxis_71, Millski_71, Cerulean_74
- Track 3 : Shygu2_71, Noelle_72, Datway_71, Xena_70
- Track 4 : Miramae_71, AvatarAhPeg_71, Stink_71
- Track 5 : AbbysRanger_71, Perplexer_71, Cici_71, Achebe_70, Morpher26_71, Backyardigan_69, Wile_70, Wizard007_71, Badger_70, PetiteSangsue_71, Bumblebee11_70, Katalie136_71
- Track 6 : ICleared_71, Phontbonne_72
- Track 7 : Dhanush_72, Abdiel_72
- Track 8 : Scamp_72
- Track 9 : Mundrea_71
- Track 10 : Cindaradix_68

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

The start number called the most often in the published annotations is 5, it was called in 142 of the 142 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AbbysRanger_71, Abdiel_72, Achebe_70, Albee_72, Alberto7_73, Annyong_71, Arturo_69, AvatarAhPeg_71, Avle17_72, Baby16_72, Backyardigan_69, Badger_70, BangNhom_70, Bartimeaus_72, BellusTerra_73, Blackmoor_71, Bombshell_72, Broseidon_72, Bruiser_71, BubbleTrouble_71, Buckaroo_68, Bumblebee11_70, Burger_70, Caelakin_71, Camperdownii_70, CentreCat_72, Cerulean_74, ChampagnePapi_75, Chaph_72, Cici_71, Cindaradix_68, Cintron_73, Citius_72, Clarenza_71, Cocoaberry_72, Commander_70, Connomayer_72, Datway_71, Deano_69, Dhanush_72, DirtyDunning_71, Druantia_71, Eagle_71, Eapen_72, Eris_71, Eros_72, Eurydice_73, Florean_72, Flux_73, Funston_71, Gadost_72, HamSlice_68, Happiness_71, Holli_71, Houdini22_71, ICleared_71, Iceman_71, Iracema64_72, Jaykayelowell_69, JetBlade_73, JoongJeon_71, Junimo_68, KFPoly_71, Kampy_71, Katalie136_71, KekoraPapaka_69, Kingmustik0402_72, Koan_69, Koreni_71, Kratark_71, Kremtemulon_71, Kyee_72, LHTSCC_74, LappelDuVide_72, Lemur_72, LeoAvram_71, LittleB_72, LittleGuy_72, LochMonster_73, Lorenzo_72, Lunsford_72, Maverick_71, Maxo_74, Mayonnaise_69, Mazhar510_72, Medusa_72, MeeZee_71, Melvin_74, Millski_71, Miramae_71, Morpher26_71, Morrow_74, Mundrea_71, Nebs_73, Nemo27_71, Noelle_72, NorthStar_70, Northrop_69, NotAPhaseMom_71, Nyxis_71, OKaNui_71, Obama12_73, Ohfah_73, Palestino_71, Peaches_70, Perplexer_71, PeterPeter_72, PetiteSangsue_71, Phacado_72, Phelipe_73, Phighter1804_72, Phontbonne_72, Pipcraft_69, Polymorphads_73, Pukovnik_75, Pumbaa_72, Relief_71, RockieBear_69, Rocksand_69, Romney_71, Roosevelt_70, Rosa24_69, Ruin_72, Sabertooth_72, Scamp_72, SeniorClean_73, Shaka_70, SheldonCooper_72, Shygu2_71, Skadoosh_70, Skipitt_71, Sparxx_73, Spino_71, SteMason_72, Stink_71, Sultana_72, Taquarus_71, Thanksgivukkah_71, TinaFeyge_70, Tinybot_71, TiroTheta9_71, TroyPia_73, TygerBlood_72, Ulysses_71, Wander_72, Wilbur_72, Wile_70, Wizard007_71, Xena_70, YoSam321_72,

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

-

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

-

Summary by start number:

Start 5:

- Found in 150 of 150 (100.0%) of genes in pham
- Manual Annotations of this start: 142 of 142
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AbbysRanger_71 (A4), Abdiel_72 (A4), Achebe_70 (A4), Albee_72 (A4), Alberto7_73 (A4), Annyong_71 (A4), Arturo_69 (A4), AvatarAhPeg_71 (A4), Avle17_72 (A4), Baby16_72 (A4), Backyardigan_69 (A4), Badger_70 (A4), BangNhom_70 (A4), Bartimeaus_72 (A4), BellusTerra_73 (A4), Blackmoor_71 (A4), Bombshell_72 (A4), Broseidon_72 (A4), Bruiser_71 (A4), BubbleTrouble_71 (A4), Buckaroo_68 (A4), Bumblebee11_70 (A4), Burger_70 (A4), Caelakin_71 (A4), Camperdownii_70 (A4), CentreCat_72 (A4), Cerulean_74 (A4), ChampagnePapi_75 (A4), Chaph_72 (A4), Cici_71 (A4), Cindaradix_68 (A4),

Cintron_73 (A4), Citius_72 (A4), Clarenza_71 (A4), Cocoaberry_72 (A4), Commander_70 (A4), Connomayer_72 (A4), Datway_71 (A4), Deano_69 (A4), Dhanush_72 (A4), DirtyDunning_71 (A4), Druantia_71 (A4), Eagle_71 (A4), Eapen_72 (A4), Eris_71 (A4), Eros_72 (A4), Eurydice_73 (A4), Florean_72 (A4), Flux_73 (A4), Funston_71 (A4), Gadost_72 (A4), HamSlice_68 (A4), Happiness_71 (A4), Holli_71 (A4), Houdini22_71 (A4), ICleared_71 (A4), Iceman_71 (A4), Iracema64_72 (A4), Jaykayelowell_69 (A4), JetBlade_73 (A4), JoongJeon_71 (A4), Junimo_68 (A4), KFPoly_71 (A4), Kampy_71 (A4), Katalie136_71 (A4), KekoraPapaka_69 (A4), Kingmustik0402_72 (A4), Koan_69 (A4), Koreni_71 (A4), Kratark_71 (A4), Kremtemulon_71 (A4), Kyee_72 (A4), LHTSCC_74 (A4), LappelDuVide_72 (A4), Lemur_72 (A4), LeoAvram_71 (A4), LittleB_72 (A4), LittleGuy_72 (A4), LochMonster_73 (A4), Lorenzo_72 (A4), Lunsford_72 (A4), Maverick_71 (A4), Maxo_74 (A4), Mayonnaise_69 (A4), Mazhar510_72 (A4), Medusa_72 (A4), MeeZee_71 (A4), Melvin_74 (A4), Millski_71 (A4), Miramae_71 (A4), Morpher26_71 (A4), Morrow_74 (A4), Mundrea_71 (A4), Nebs_73 (A4), Nemo27_71 (A4), Noelle_72 (A4), NorthStar_70 (A4), Northrop_69 (A4), NotAPhaseMom_71 (A4), Nyxis_71 (A4), OKaNui_71 (A4), Obama12_73 (A4), Ohfah_73 (A4), Palestino_71 (A4), Peaches_70 (A4), Perplexer_71 (A4), PeterPeter_72 (A4), PetiteSangsue_71 (A4), Phacado_72 (A4), Phelipe_73 (A4), Phighter1804_72 (A4), Phontbonne_72 (A4), Pipcraft_69 (A4), Polymorphads_73 (A4), Pukovnik_75 (A2), Pumbaa_72 (A4), Relief_71 (A4), RockieBear_69 (A4), Rocksand_69 (A4), Romney_71 (A4), Roosevelt_70 (A4), Rosa24_69 (A4), Ruin_72 (A4), Sabertooth_72 (A4), Scamp_72 (A4), SenorClean_73 (A4), Shaka_70 (A4), SheldonCooper_72 (A4), Shygu2_71 (A4), Skadoosh_70 (A4), Skipitt_71 (A4), Sparxx_73 (A4), Spino_71 (A4), SteMason_72 (A4), Stink_71 (A4), Sultana_72 (A4), Taquarus_71 (A4), Thanksgivukkah_71 (A4), TinaFeyge_70 (A4), Tinybot_71 (A4), TiroTheta9_71 (A4), TroyPia_73 (A4), TygerBlood_72 (A4), Ulysses_71 (A4), Wander_72 (A4), Wilbur_72 (A4), Wile_70 (A4), Wizard007_71 (A4), Xena_70 (A4), YoSam321_72 (A4),

Summary by clusters:

There are 2 clusters represented in this pham: A2, A4,

Info for manual annotations of cluster A2:

- Start number 5 was manually annotated 1 time for cluster A2.

Info for manual annotations of cluster A4:

- Start number 5 was manually annotated 141 times for cluster A4.

Gene Information:

Gene: AbbysRanger_71 Start: 44943, Stop: 44698, Start Num: 5

Candidate Starts for AbbysRanger_71:

(Start: 5 @44943 has 142 MA's), (8, 44919), (13, 44829),

Gene: Abdiel_72 Start: 44892, Stop: 44644, Start Num: 5

Candidate Starts for Abdiel_72:

(Start: 5 @44892 has 142 MA's), (9, 44865), (10, 44841), (12, 44805), (13, 44775),

Gene: Achebe_70 Start: 44926, Stop: 44681, Start Num: 5

Candidate Starts for Achebe_70:

(Start: 5 @44926 has 142 MA's), (8, 44902), (13, 44812),

Gene: Albee_72 Start: 44880, Stop: 44632, Start Num: 5

Candidate Starts for Albee_72:

(Start: 5 @44880 has 142 MA's), (9, 44853), (12, 44793), (13, 44763),

Gene: Alberto7_73 Start: 45217, Stop: 44969, Start Num: 5

Candidate Starts for Alberto7_73:

(Start: 5 @45217 has 142 MA's), (9, 45190), (12, 45130), (13, 45100),

Gene: Annyong_71 Start: 44925, Stop: 44677, Start Num: 5

Candidate Starts for Annyong_71:

(Start: 5 @44925 has 142 MA's), (9, 44898), (12, 44838), (13, 44808),

Gene: Arturo_69 Start: 45008, Stop: 44760, Start Num: 5

Candidate Starts for Arturo_69:

(Start: 5 @45008 has 142 MA's), (9, 44981), (12, 44921), (13, 44891),

Gene: AvatarAhPeg_71 Start: 44816, Stop: 44571, Start Num: 5

Candidate Starts for AvatarAhPeg_71:

(Start: 5 @44816 has 142 MA's), (8, 44792), (12, 44732), (13, 44702),

Gene: Avle17_72 Start: 44874, Stop: 44626, Start Num: 5

Candidate Starts for Avle17_72:

(Start: 5 @44874 has 142 MA's), (9, 44847), (12, 44787), (13, 44757),

Gene: Baby16_72 Start: 44891, Stop: 44643, Start Num: 5

Candidate Starts for Baby16_72:

(Start: 5 @44891 has 142 MA's), (9, 44864), (12, 44804), (13, 44774),

Gene: Backyardigan_69 Start: 44959, Stop: 44714, Start Num: 5

Candidate Starts for Backyardigan_69:

(Start: 5 @44959 has 142 MA's), (8, 44935), (13, 44845),

Gene: Badger_70 Start: 44927, Stop: 44682, Start Num: 5

Candidate Starts for Badger_70:

(Start: 5 @44927 has 142 MA's), (8, 44903), (13, 44813),

Gene: BangNhom_70 Start: 45317, Stop: 45069, Start Num: 5

Candidate Starts for BangNhom_70:

(Start: 5 @45317 has 142 MA's), (9, 45290), (12, 45230), (13, 45200),

Gene: Bartimeaus_72 Start: 44882, Stop: 44634, Start Num: 5

Candidate Starts for Bartimeaus_72:

(Start: 5 @44882 has 142 MA's), (9, 44855), (12, 44795), (13, 44765),

Gene: BellusTerra_73 Start: 44921, Stop: 44673, Start Num: 5

Candidate Starts for BellusTerra_73:

(Start: 5 @44921 has 142 MA's), (9, 44894), (12, 44834), (13, 44804),

Gene: Blackmoor_71 Start: 44882, Stop: 44634, Start Num: 5

Candidate Starts for Blackmoor_71:

(Start: 5 @44882 has 142 MA's), (9, 44855), (12, 44795), (13, 44765),

Gene: Bombshell_72 Start: 44877, Stop: 44629, Start Num: 5

Candidate Starts for Bombshell_72:

(Start: 5 @44877 has 142 MA's), (9, 44850), (12, 44790), (13, 44760),

Gene: Broseidon_72 Start: 44883, Stop: 44635, Start Num: 5

Candidate Starts for Broseidon_72:

(Start: 5 @44883 has 142 MA's), (9, 44856), (12, 44796), (13, 44766),

Gene: Bruiser_71 Start: 44880, Stop: 44632, Start Num: 5

Candidate Starts for Bruiser_71:

(Start: 5 @44880 has 142 MA's), (9, 44853), (12, 44793), (13, 44763),

Gene: BubbleTrouble_71 Start: 44907, Stop: 44659, Start Num: 5

Candidate Starts for BubbleTrouble_71:

(Start: 5 @44907 has 142 MA's), (9, 44880), (12, 44820), (13, 44790),

Gene: Buckaroo_68 Start: 44884, Stop: 44636, Start Num: 5

Candidate Starts for Buckaroo_68:

(Start: 5 @44884 has 142 MA's), (9, 44857), (12, 44797), (13, 44767),

Gene: Bumblebee11_70 Start: 44929, Stop: 44684, Start Num: 5

Candidate Starts for Bumblebee11_70:

(Start: 5 @44929 has 142 MA's), (8, 44905), (13, 44815),

Gene: Burger_70 Start: 44880, Stop: 44632, Start Num: 5

Candidate Starts for Burger_70:

(Start: 5 @44880 has 142 MA's), (9, 44853), (12, 44793), (13, 44763),

Gene: Caelakin_71 Start: 44880, Stop: 44632, Start Num: 5

Candidate Starts for Caelakin_71:

(Start: 5 @44880 has 142 MA's), (9, 44853), (12, 44793), (13, 44763),

Gene: Camperdownii_70 Start: 44552, Stop: 44304, Start Num: 5

Candidate Starts for Camperdownii_70:

(Start: 5 @44552 has 142 MA's), (9, 44525), (12, 44465), (13, 44435),

Gene: CentreCat_72 Start: 44920, Stop: 44672, Start Num: 5

Candidate Starts for CentreCat_72:

(Start: 5 @44920 has 142 MA's), (9, 44893), (12, 44833), (13, 44803),

Gene: Cerulean_74 Start: 45318, Stop: 45070, Start Num: 5

Candidate Starts for Cerulean_74:

(Start: 5 @45318 has 142 MA's), (9, 45291), (12, 45231), (13, 45201),

Gene: ChampagnePapi_75 Start: 45317, Stop: 45069, Start Num: 5

Candidate Starts for ChampagnePapi_75:

(Start: 5 @45317 has 142 MA's), (9, 45290), (12, 45230), (13, 45200),

Gene: Chaph_72 Start: 44891, Stop: 44643, Start Num: 5

Candidate Starts for Chaph_72:

(Start: 5 @44891 has 142 MA's), (9, 44864), (12, 44804), (13, 44774),

Gene: Cici_71 Start: 44944, Stop: 44699, Start Num: 5

Candidate Starts for Cici_71:

(Start: 5 @44944 has 142 MA's), (8, 44920), (13, 44830),

Gene: Cindaradix_68 Start: 44778, Stop: 44533, Start Num: 5

Candidate Starts for Cindaradix_68:

(2, 44838), (Start: 5 @44778 has 142 MA's), (9, 44751), (13, 44664),

Gene: Cintron_73 Start: 45031, Stop: 44783, Start Num: 5

Candidate Starts for Cintron_73:

(Start: 5 @45031 has 142 MA's), (9, 45004), (12, 44944), (13, 44914),

Gene: Citius_72 Start: 44901, Stop: 44653, Start Num: 5

Candidate Starts for Citius_72:

(Start: 5 @44901 has 142 MA's), (9, 44874), (12, 44814), (13, 44784),

Gene: Clarenza_71 Start: 44877, Stop: 44629, Start Num: 5

Candidate Starts for Clarenza_71:

(Start: 5 @44877 has 142 MA's), (9, 44850), (12, 44790), (13, 44760),

Gene: Cocoaberry_72 Start: 44881, Stop: 44633, Start Num: 5

Candidate Starts for Cocoaberry_72:

(Start: 5 @44881 has 142 MA's), (9, 44854), (12, 44794), (13, 44764),

Gene: Commander_70 Start: 44878, Stop: 44630, Start Num: 5

Candidate Starts for Commander_70:

(Start: 5 @44878 has 142 MA's), (9, 44851), (12, 44791), (13, 44761),

Gene: Connomayer_72 Start: 44880, Stop: 44632, Start Num: 5

Candidate Starts for Connomayer_72:

(Start: 5 @44880 has 142 MA's), (9, 44853), (12, 44793), (13, 44763),

Gene: Datway_71 Start: 44942, Stop: 44694, Start Num: 5

Candidate Starts for Datway_71:

(Start: 5 @44942 has 142 MA's), (13, 44825),

Gene: Deano_69 Start: 44888, Stop: 44640, Start Num: 5

Candidate Starts for Deano_69:

(Start: 5 @44888 has 142 MA's), (9, 44861), (12, 44801), (13, 44771),

Gene: Dhanush_72 Start: 44883, Stop: 44635, Start Num: 5

Candidate Starts for Dhanush_72:

(Start: 5 @44883 has 142 MA's), (9, 44856), (10, 44832), (12, 44796), (13, 44766),

Gene: DirtyDunning_71 Start: 44892, Stop: 44644, Start Num: 5

Candidate Starts for DirtyDunning_71:

(Start: 5 @44892 has 142 MA's), (9, 44865), (12, 44805), (13, 44775),

Gene: Druantia_71 Start: 44883, Stop: 44635, Start Num: 5

Candidate Starts for Druantia_71:

(Start: 5 @44883 has 142 MA's), (9, 44856), (12, 44796), (13, 44766),

Gene: Eagle_71 Start: 44942, Stop: 44694, Start Num: 5
Candidate Starts for Eagle_71:
(Start: 5 @44942 has 142 MA's), (9, 44915), (12, 44855), (13, 44825),

Gene: Eapen_72 Start: 44875, Stop: 44627, Start Num: 5
Candidate Starts for Eapen_72:
(Start: 5 @44875 has 142 MA's), (9, 44848), (12, 44788), (13, 44758),

Gene: Eris_71 Start: 44892, Stop: 44644, Start Num: 5
Candidate Starts for Eris_71:
(Start: 5 @44892 has 142 MA's), (9, 44865), (12, 44805), (13, 44775),

Gene: Eros_72 Start: 44882, Stop: 44634, Start Num: 5
Candidate Starts for Eros_72:
(Start: 5 @44882 has 142 MA's), (9, 44855), (12, 44795), (13, 44765),

Gene: Eurydice_73 Start: 44917, Stop: 44669, Start Num: 5
Candidate Starts for Eurydice_73:
(Start: 5 @44917 has 142 MA's), (9, 44890), (12, 44830), (13, 44800),

Gene: Florean_72 Start: 44879, Stop: 44631, Start Num: 5
Candidate Starts for Florean_72:
(Start: 5 @44879 has 142 MA's), (9, 44852), (12, 44792), (13, 44762),

Gene: Flux_73 Start: 44878, Stop: 44630, Start Num: 5
Candidate Starts for Flux_73:
(Start: 5 @44878 has 142 MA's), (9, 44851), (12, 44791), (13, 44761),

Gene: Funston_71 Start: 44877, Stop: 44629, Start Num: 5
Candidate Starts for Funston_71:
(Start: 5 @44877 has 142 MA's), (9, 44850), (12, 44790), (13, 44760),

Gene: Gadost_72 Start: 44881, Stop: 44633, Start Num: 5
Candidate Starts for Gadost_72:
(Start: 5 @44881 has 142 MA's), (9, 44854), (12, 44794), (13, 44764),

Gene: HamSlice_68 Start: 44879, Stop: 44631, Start Num: 5
Candidate Starts for HamSlice_68:
(Start: 5 @44879 has 142 MA's), (9, 44852), (12, 44792), (13, 44762),

Gene: Happiness_71 Start: 44900, Stop: 44652, Start Num: 5
Candidate Starts for Happiness_71:
(Start: 5 @44900 has 142 MA's), (9, 44873), (12, 44813), (13, 44783),

Gene: Holli_71 Start: 44670, Stop: 44422, Start Num: 5
Candidate Starts for Holli_71:
(Start: 5 @44670 has 142 MA's), (9, 44643), (12, 44583), (13, 44553),

Gene: Houdini22_71 Start: 44881, Stop: 44633, Start Num: 5
Candidate Starts for Houdini22_71:
(Start: 5 @44881 has 142 MA's), (9, 44854), (12, 44794), (13, 44764),

Gene: ICleared_71 Start: 44948, Stop: 44700, Start Num: 5

Candidate Starts for ICleared_71:

(2, 45008), (Start: 5 @44948 has 142 MA's), (6, 44936), (9, 44921), (12, 44861), (13, 44831),

Gene: Iceman_71 Start: 45170, Stop: 44922, Start Num: 5

Candidate Starts for Iceman_71:

(Start: 5 @45170 has 142 MA's), (9, 45143), (12, 45083), (13, 45053),

Gene: Iracema64_72 Start: 45144, Stop: 44896, Start Num: 5

Candidate Starts for Iracema64_72:

(Start: 5 @45144 has 142 MA's), (9, 45117), (12, 45057), (13, 45027),

Gene: Jaykayelowell_69 Start: 44873, Stop: 44625, Start Num: 5

Candidate Starts for Jaykayelowell_69:

(Start: 5 @44873 has 142 MA's), (9, 44846), (12, 44786), (13, 44756),

Gene: JetBlade_73 Start: 44908, Stop: 44660, Start Num: 5

Candidate Starts for JetBlade_73:

(Start: 5 @44908 has 142 MA's), (9, 44881), (12, 44821), (13, 44791),

Gene: JoongJeon_71 Start: 44874, Stop: 44626, Start Num: 5

Candidate Starts for JoongJeon_71:

(Start: 5 @44874 has 142 MA's), (9, 44847), (12, 44787), (13, 44757),

Gene: Junimo_68 Start: 44880, Stop: 44632, Start Num: 5

Candidate Starts for Junimo_68:

(Start: 5 @44880 has 142 MA's), (9, 44853), (12, 44793), (13, 44763),

Gene: KFPoly_71 Start: 44874, Stop: 44626, Start Num: 5

Candidate Starts for KFPoly_71:

(Start: 5 @44874 has 142 MA's), (9, 44847), (12, 44787), (13, 44757),

Gene: Kampy_71 Start: 44883, Stop: 44635, Start Num: 5

Candidate Starts for Kampy_71:

(Start: 5 @44883 has 142 MA's), (9, 44856), (12, 44796), (13, 44766),

Gene: Katalie136_71 Start: 44929, Stop: 44684, Start Num: 5

Candidate Starts for Katalie136_71:

(Start: 5 @44929 has 142 MA's), (8, 44905), (13, 44815),

Gene: KekoraPapaka_69 Start: 44880, Stop: 44632, Start Num: 5

Candidate Starts for KekoraPapaka_69:

(Start: 5 @44880 has 142 MA's), (9, 44853), (12, 44793), (13, 44763),

Gene: Kingmustik0402_72 Start: 44869, Stop: 44621, Start Num: 5

Candidate Starts for Kingmustik0402_72:

(Start: 5 @44869 has 142 MA's), (9, 44842), (12, 44782), (13, 44752),

Gene: Koan_69 Start: 44880, Stop: 44632, Start Num: 5

Candidate Starts for Koan_69:

(Start: 5 @44880 has 142 MA's), (9, 44853), (12, 44793), (13, 44763),

Gene: Koreni_71 Start: 44561, Stop: 44313, Start Num: 5

Candidate Starts for Koreni_71:

(Start: 5 @44561 has 142 MA's), (9, 44534), (12, 44474), (13, 44444),

Gene: Kratark_71 Start: 44914, Stop: 44666, Start Num: 5

Candidate Starts for Kratark_71:

(Start: 5 @44914 has 142 MA's), (9, 44887), (12, 44827), (13, 44797),

Gene: Kremtemulon_71 Start: 45013, Stop: 44765, Start Num: 5

Candidate Starts for Kremtemulon_71:

(Start: 5 @45013 has 142 MA's), (9, 44986), (12, 44926), (13, 44896),

Gene: Kyee_72 Start: 44875, Stop: 44627, Start Num: 5

Candidate Starts for Kyee_72:

(Start: 5 @44875 has 142 MA's), (9, 44848), (12, 44788), (13, 44758),

Gene: LHTSCC_74 Start: 45317, Stop: 45069, Start Num: 5

Candidate Starts for LHTSCC_74:

(Start: 5 @45317 has 142 MA's), (9, 45290), (12, 45230), (13, 45200),

Gene: LappelDuVide_72 Start: 44879, Stop: 44631, Start Num: 5

Candidate Starts for LappelDuVide_72:

(Start: 5 @44879 has 142 MA's), (9, 44852), (12, 44792), (13, 44762),

Gene: Lemur_72 Start: 44877, Stop: 44629, Start Num: 5

Candidate Starts for Lemur_72:

(Start: 5 @44877 has 142 MA's), (9, 44850), (12, 44790), (13, 44760),

Gene: LeoAvram_71 Start: 44911, Stop: 44663, Start Num: 5

Candidate Starts for LeoAvram_71:

(Start: 5 @44911 has 142 MA's), (9, 44884), (12, 44824), (13, 44794),

Gene: LittleB_72 Start: 44881, Stop: 44633, Start Num: 5

Candidate Starts for LittleB_72:

(Start: 5 @44881 has 142 MA's), (9, 44854), (12, 44794), (13, 44764),

Gene: LittleGuy_72 Start: 44765, Stop: 44517, Start Num: 5

Candidate Starts for LittleGuy_72:

(Start: 5 @44765 has 142 MA's), (9, 44738), (12, 44678), (13, 44648),

Gene: LochMonster_73 Start: 45116, Stop: 44868, Start Num: 5

Candidate Starts for LochMonster_73:

(Start: 5 @45116 has 142 MA's), (9, 45089), (12, 45029), (13, 44999),

Gene: Lorenzo_72 Start: 44878, Stop: 44630, Start Num: 5

Candidate Starts for Lorenzo_72:

(Start: 5 @44878 has 142 MA's), (9, 44851), (12, 44791), (13, 44761),

Gene: Lunsford_72 Start: 44873, Stop: 44625, Start Num: 5

Candidate Starts for Lunsford_72:

(Start: 5 @44873 has 142 MA's), (9, 44846), (12, 44786), (13, 44756),

Gene: Maverick_71 Start: 44877, Stop: 44629, Start Num: 5

Candidate Starts for Maverick_71:

(Start: 5 @44877 has 142 MA's), (9, 44850), (12, 44790), (13, 44760),

Gene: Maxo_74 Start: 44883, Stop: 44635, Start Num: 5

Candidate Starts for Maxo_74:

(Start: 5 @44883 has 142 MA's), (9, 44856), (12, 44796), (13, 44766),

Gene: Mayonnaise_69 Start: 44877, Stop: 44629, Start Num: 5

Candidate Starts for Mayonnaise_69:

(Start: 5 @44877 has 142 MA's), (9, 44850), (12, 44790), (13, 44760),

Gene: Mazhar510_72 Start: 44878, Stop: 44630, Start Num: 5

Candidate Starts for Mazhar510_72:

(Start: 5 @44878 has 142 MA's), (9, 44851), (12, 44791), (13, 44761),

Gene: Medusa_72 Start: 44893, Stop: 44645, Start Num: 5

Candidate Starts for Medusa_72:

(Start: 5 @44893 has 142 MA's), (9, 44866), (12, 44806), (13, 44776),

Gene: MeeZee_71 Start: 44874, Stop: 44626, Start Num: 5

Candidate Starts for MeeZee_71:

(Start: 5 @44874 has 142 MA's), (9, 44847), (12, 44787), (13, 44757),

Gene: Melvin_74 Start: 44875, Stop: 44627, Start Num: 5

Candidate Starts for Melvin_74:

(Start: 5 @44875 has 142 MA's), (9, 44848), (12, 44788), (13, 44758),

Gene: Millski_71 Start: 44881, Stop: 44633, Start Num: 5

Candidate Starts for Millski_71:

(Start: 5 @44881 has 142 MA's), (9, 44854), (12, 44794), (13, 44764),

Gene: Miramae_71 Start: 44478, Stop: 44233, Start Num: 5

Candidate Starts for Miramae_71:

(Start: 5 @44478 has 142 MA's), (8, 44454), (12, 44394), (13, 44364),

Gene: Morpher26_71 Start: 44950, Stop: 44705, Start Num: 5

Candidate Starts for Morpher26_71:

(Start: 5 @44950 has 142 MA's), (8, 44926), (13, 44836),

Gene: Morrow_74 Start: 44920, Stop: 44672, Start Num: 5

Candidate Starts for Morrow_74:

(Start: 5 @44920 has 142 MA's), (9, 44893), (12, 44833), (13, 44803),

Gene: Mundrea_71 Start: 44949, Stop: 44701, Start Num: 5

Candidate Starts for Mundrea_71:

(2, 45009), (4, 44991), (Start: 5 @44949 has 142 MA's), (7, 44928), (13, 44832),

Gene: Nebs_73 Start: 44920, Stop: 44672, Start Num: 5

Candidate Starts for Nebs_73:

(Start: 5 @44920 has 142 MA's), (9, 44893), (12, 44833), (13, 44803),

Gene: Nemo27_71 Start: 44876, Stop: 44628, Start Num: 5

Candidate Starts for Nemo27_71:

(Start: 5 @44876 has 142 MA's), (9, 44849), (12, 44789), (13, 44759),

Gene: Noelle_72 Start: 45271, Stop: 45023, Start Num: 5

Candidate Starts for Noelle_72:

(Start: 5 @45271 has 142 MA's), (13, 45154),

Gene: NorthStar_70 Start: 44880, Stop: 44632, Start Num: 5

Candidate Starts for NorthStar_70:

(Start: 5 @44880 has 142 MA's), (9, 44853), (12, 44793), (13, 44763),

Gene: Northrop_69 Start: 44876, Stop: 44628, Start Num: 5

Candidate Starts for Northrop_69:

(Start: 5 @44876 has 142 MA's), (9, 44849), (12, 44789), (13, 44759),

Gene: NotAPhaseMom_71 Start: 44881, Stop: 44633, Start Num: 5

Candidate Starts for NotAPhaseMom_71:

(Start: 5 @44881 has 142 MA's), (9, 44854), (12, 44794), (13, 44764),

Gene: Nyxis_71 Start: 44759, Stop: 44511, Start Num: 5

Candidate Starts for Nyxis_71:

(Start: 5 @44759 has 142 MA's), (9, 44732), (12, 44672), (13, 44642),

Gene: OKaNui_71 Start: 44930, Stop: 44682, Start Num: 5

Candidate Starts for OKaNui_71:

(Start: 5 @44930 has 142 MA's), (9, 44903), (12, 44843), (13, 44813),

Gene: Obama12_73 Start: 45301, Stop: 45053, Start Num: 5

Candidate Starts for Obama12_73:

(Start: 5 @45301 has 142 MA's), (9, 45274), (12, 45214), (13, 45184),

Gene: Ohfah_73 Start: 44920, Stop: 44672, Start Num: 5

Candidate Starts for Ohfah_73:

(Start: 5 @44920 has 142 MA's), (9, 44893), (12, 44833), (13, 44803),

Gene: Palestino_71 Start: 44877, Stop: 44629, Start Num: 5

Candidate Starts for Palestino_71:

(Start: 5 @44877 has 142 MA's), (9, 44850), (12, 44790), (13, 44760),

Gene: Peaches_70 Start: 44879, Stop: 44631, Start Num: 5

Candidate Starts for Peaches_70:

(Start: 5 @44879 has 142 MA's), (9, 44852), (12, 44792), (13, 44762),

Gene: Perplexer_71 Start: 44926, Stop: 44681, Start Num: 5

Candidate Starts for Perplexer_71:

(Start: 5 @44926 has 142 MA's), (8, 44902), (13, 44812),

Gene: PeterPeter_72 Start: 44874, Stop: 44626, Start Num: 5

Candidate Starts for PeterPeter_72:

(Start: 5 @44874 has 142 MA's), (9, 44847), (12, 44787), (13, 44757),

Gene: PetiteSangsue_71 Start: 44929, Stop: 44684, Start Num: 5

Candidate Starts for PetiteSangsue_71:

(Start: 5 @44929 has 142 MA's), (8, 44905), (13, 44815),

Gene: Phacado_72 Start: 44876, Stop: 44628, Start Num: 5

Candidate Starts for Phacado_72:

(Start: 5 @44876 has 142 MA's), (9, 44849), (12, 44789), (13, 44759),

Gene: Phelipe_73 Start: 44920, Stop: 44672, Start Num: 5

Candidate Starts for Phelipe_73:

(Start: 5 @44920 has 142 MA's), (9, 44893), (12, 44833), (13, 44803),

Gene: Phighter1804_72 Start: 44941, Stop: 44693, Start Num: 5

Candidate Starts for Phighter1804_72:

(Start: 5 @44941 has 142 MA's), (9, 44914), (12, 44854), (13, 44824),

Gene: Phontbonne_72 Start: 44775, Stop: 44527, Start Num: 5

Candidate Starts for Phontbonne_72:

(2, 44835), (Start: 5 @44775 has 142 MA's), (6, 44763), (9, 44748), (12, 44688), (13, 44658),

Gene: Pipcraft_69 Start: 44881, Stop: 44633, Start Num: 5

Candidate Starts for Pipcraft_69:

(Start: 5 @44881 has 142 MA's), (9, 44854), (12, 44794), (13, 44764),

Gene: Polymorphads_73 Start: 44901, Stop: 44653, Start Num: 5

Candidate Starts for Polymorphads_73:

(Start: 5 @44901 has 142 MA's), (9, 44874), (12, 44814), (13, 44784),

Gene: Pukovnik_75 Start: 47023, Stop: 46781, Start Num: 5

Candidate Starts for Pukovnik_75:

(1, 47215), (3, 47074), (Start: 5 @47023 has 142 MA's), (8, 46999), (9, 46996), (11, 46966),

Gene: Pumbaa_72 Start: 44825, Stop: 44577, Start Num: 5

Candidate Starts for Pumbaa_72:

(Start: 5 @44825 has 142 MA's), (9, 44798), (12, 44738), (13, 44708),

Gene: Relief_71 Start: 44877, Stop: 44629, Start Num: 5

Candidate Starts for Relief_71:

(Start: 5 @44877 has 142 MA's), (9, 44850), (12, 44790), (13, 44760),

Gene: RockieBear_69 Start: 44879, Stop: 44631, Start Num: 5

Candidate Starts for RockieBear_69:

(Start: 5 @44879 has 142 MA's), (9, 44852), (12, 44792), (13, 44762),

Gene: Rocksand_69 Start: 44876, Stop: 44628, Start Num: 5

Candidate Starts for Rocksand_69:

(Start: 5 @44876 has 142 MA's), (9, 44849), (12, 44789), (13, 44759),

Gene: Romney_71 Start: 44877, Stop: 44629, Start Num: 5

Candidate Starts for Romney_71:

(Start: 5 @44877 has 142 MA's), (9, 44850), (12, 44790), (13, 44760),

Gene: Roosevelt_70 Start: 44882, Stop: 44634, Start Num: 5

Candidate Starts for Roosevelt_70:

(Start: 5 @44882 has 142 MA's), (9, 44855), (12, 44795), (13, 44765),

Gene: Rosa24_69 Start: 44908, Stop: 44660, Start Num: 5

Candidate Starts for Rosa24_69:

(Start: 5 @44908 has 142 MA's), (9, 44881), (12, 44821), (13, 44791),

Gene: Ruin_72 Start: 44873, Stop: 44625, Start Num: 5

Candidate Starts for Ruin_72:

(Start: 5 @44873 has 142 MA's), (9, 44846), (12, 44786), (13, 44756),

Gene: Sabertooth_72 Start: 44885, Stop: 44637, Start Num: 5

Candidate Starts for Sabertooth_72:

(Start: 5 @44885 has 142 MA's), (9, 44858), (12, 44798), (13, 44768),

Gene: Scamp_72 Start: 44882, Stop: 44634, Start Num: 5

Candidate Starts for Scamp_72:

(2, 44942), (Start: 5 @44882 has 142 MA's), (9, 44855), (12, 44795), (13, 44765),

Gene: SenorClean_73 Start: 44880, Stop: 44632, Start Num: 5

Candidate Starts for SenorClean_73:

(Start: 5 @44880 has 142 MA's), (9, 44853), (12, 44793), (13, 44763),

Gene: Shaka_70 Start: 44878, Stop: 44630, Start Num: 5

Candidate Starts for Shaka_70:

(Start: 5 @44878 has 142 MA's), (9, 44851), (12, 44791), (13, 44761),

Gene: SheldonCooper_72 Start: 45318, Stop: 45070, Start Num: 5

Candidate Starts for SheldonCooper_72:

(Start: 5 @45318 has 142 MA's), (9, 45291), (12, 45231), (13, 45201),

Gene: Shygu2_71 Start: 44981, Stop: 44736, Start Num: 5

Candidate Starts for Shygu2_71:

(Start: 5 @44981 has 142 MA's), (13, 44867),

Gene: Skadoosh_70 Start: 44877, Stop: 44629, Start Num: 5

Candidate Starts for Skadoosh_70:

(Start: 5 @44877 has 142 MA's), (9, 44850), (12, 44790), (13, 44760),

Gene: Skipitt_71 Start: 44874, Stop: 44626, Start Num: 5

Candidate Starts for Skipitt_71:

(Start: 5 @44874 has 142 MA's), (9, 44847), (12, 44787), (13, 44757),

Gene: Sparxx_73 Start: 44876, Stop: 44628, Start Num: 5

Candidate Starts for Sparxx_73:

(Start: 5 @44876 has 142 MA's), (9, 44849), (12, 44789), (13, 44759),

Gene: Spino_71 Start: 44880, Stop: 44632, Start Num: 5

Candidate Starts for Spino_71:

(Start: 5 @44880 has 142 MA's), (9, 44853), (12, 44793), (13, 44763),

Gene: SteMason_72 Start: 44877, Stop: 44629, Start Num: 5

Candidate Starts for SteMason_72:

(Start: 5 @44877 has 142 MA's), (9, 44850), (12, 44790), (13, 44760),

Gene: Stink_71 Start: 44758, Stop: 44513, Start Num: 5

Candidate Starts for Stink_71:

(Start: 5 @44758 has 142 MA's), (8, 44734), (12, 44674), (13, 44644),

Gene: Sultana_72 Start: 44877, Stop: 44629, Start Num: 5
Candidate Starts for Sultana_72:
(Start: 5 @44877 has 142 MA's), (9, 44850), (12, 44790), (13, 44760),

Gene: Taquarus_71 Start: 44883, Stop: 44635, Start Num: 5
Candidate Starts for Taquarus_71:
(Start: 5 @44883 has 142 MA's), (9, 44856), (12, 44796), (13, 44766),

Gene: Thanksgivukkah_71 Start: 44878, Stop: 44630, Start Num: 5
Candidate Starts for Thanksgivukkah_71:
(Start: 5 @44878 has 142 MA's), (9, 44851), (12, 44791), (13, 44761),

Gene: TinaFeyge_70 Start: 44875, Stop: 44627, Start Num: 5
Candidate Starts for TinaFeyge_70:
(Start: 5 @44875 has 142 MA's), (9, 44848), (12, 44788), (13, 44758),

Gene: Tinybot_71 Start: 44907, Stop: 44659, Start Num: 5
Candidate Starts for Tinybot_71:
(Start: 5 @44907 has 142 MA's), (9, 44880), (12, 44820), (13, 44790),

Gene: TiroTheta9_71 Start: 44874, Stop: 44626, Start Num: 5
Candidate Starts for TiroTheta9_71:
(Start: 5 @44874 has 142 MA's), (9, 44847), (12, 44787), (13, 44757),

Gene: TroyPia_73 Start: 44915, Stop: 44667, Start Num: 5
Candidate Starts for TroyPia_73:
(Start: 5 @44915 has 142 MA's), (9, 44888), (12, 44828), (13, 44798),

Gene: TygerBlood_72 Start: 44880, Stop: 44632, Start Num: 5
Candidate Starts for TygerBlood_72:
(Start: 5 @44880 has 142 MA's), (9, 44853), (12, 44793), (13, 44763),

Gene: Ulysses_71 Start: 44563, Stop: 44315, Start Num: 5
Candidate Starts for Ulysses_71:
(Start: 5 @44563 has 142 MA's), (9, 44536), (12, 44476), (13, 44446),

Gene: Wander_72 Start: 44874, Stop: 44626, Start Num: 5
Candidate Starts for Wander_72:
(Start: 5 @44874 has 142 MA's), (9, 44847), (12, 44787), (13, 44757),

Gene: Wilbur_72 Start: 44877, Stop: 44629, Start Num: 5
Candidate Starts for Wilbur_72:
(Start: 5 @44877 has 142 MA's), (9, 44850), (12, 44790), (13, 44760),

Gene: Wile_70 Start: 44959, Stop: 44714, Start Num: 5
Candidate Starts for Wile_70:
(Start: 5 @44959 has 142 MA's), (8, 44935), (13, 44845),

Gene: Wizard007_71 Start: 44685, Stop: 44440, Start Num: 5
Candidate Starts for Wizard007_71:
(Start: 5 @44685 has 142 MA's), (8, 44661), (13, 44571),

Gene: Xena_70 Start: 44950, Stop: 44702, Start Num: 5

Candidate Starts for Xena_70:

(Start: 5 @44950 has 142 MA's), (13, 44833),

Gene: YoSam321_72 Start: 44875, Stop: 44627, Start Num: 5

Candidate Starts for YoSam321_72:

(Start: 5 @44875 has 142 MA's), (9, 44848), (12, 44788), (13, 44758),