

Pham 214034



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 214034 Report

This analysis was run 02/22/25 on database version 588.

Pham number 214034 has 167 members, 10 are drafts.

Phages represented in each track:

- Track 1 : Rebeuca_74, Kristoff_71, WalterMcMickey_72, Twister_73, Edison31_69, Eaglepride_76, OKCentral2016_72, Shapes_75, Chupacabra_70, KittenMittens_69, Severus_71, DustyMartin_75, Goose_74, Drake94_70, Poompha_70, Rowdy_75, PeaceMeal1_70
- Track 2 : DontArgue_69
- Track 3 : Kimona_74
- Track 4 : Eros_73, Eapen_73, Kratark_72, Sabertooth_73, Holli_72, TiroTheta9_72, DirtyDunning_72, MeeZee_72, OKaNui_72, Caelakin_72, Skipitt_72, Obama12_74, Kingmustik0402_73, Maverick_72, Jaykayelowell_70, Kampy_72, Iceman_72, Eagle_72, JoongJeon_72, Mazhar510_73, Melvin_75, Happiness_72, Burger_71, Polymorphads_74, Peaches_71, Blackmoor_72, NorthStar_71, Sparxx_74, Commander_71, Romney_72, Iracema64_73, SenorClean_68, Koan_68, Houdini22_72, Clarenza_72, Deano_70, BubbleTrouble_72, Millski_72, PeterPeter_73, Ruin_73, Mayonnaise_70, Spino_72, Phacado_73, Avle17_73, HamSlice_69, Eurydice_74, Roosevelt_71, Ohfah_74, Phelipe_74, LHTSCC_75, KFPoly_72, Broseidon_73, Palestino_72, JetBlade_74, Bartimeaus_73, Cocoaberry_73, LeoAvram_72, TroyPia_74, Florean_73, Lemur_73, YoSam321_73, Alberto7_74, Taquarus_72, Bruiser_72, Dhanush_73, Wilbur_73, Pipcraft_70, Relief_72, TinaFeyge_71, Kyee_73, ChampagnePapi_76, Arturo_70, CentreCat_73, Wander_73, LittleGuy_73, TygerBlood_73, Albee_73, Koreni_72, Thanksgivukkah_72, Citius_73, Scamp_73, Maxo_75, Flux_74, Baby16_73, Nemo27_72, Lorenzo_73, Tinybot_72, Gadost_73, Lunsford_73, LittleB_73, Bombshell_73, BellusTerra_74, NotAPhaseMom_72, Nebs_74, Medusa_73, Morrow_75, Eris_72, Druantia_72, Annyong_72, Chaph_73, Abdiel_73, Funston_72, Phighter1804_73, Shaka_71
- Track 5 : LochMonster_74, LappelDuVide_73
- Track 6 : Shygu2_72, Noelle_73, Bumblebee11_71, Achebe_71, Morpher26_72, Cici_72, Katalie136_72, Wile_71, Badger_71, Wizard007_72
- Track 7 : Miramae_72, AvatarAhPeg_72, Stink_72
- Track 8 : Pumbaa_73, Cintron_74, SheldonCooper_73, BangNhom_71, Rosa24_70, Camperdownii_71, Ulysses_72, Kremtemulon_72, Cerulean_75
- Track 9 : AbbysRanger_72, Perplexer_72, Datway_72, PetiteSangsue_72, Backyardigan_70, Xena_71
- Track 10 : Connomayer_73
- Track 11 : Stasia_71
- Track 12 : ICleared_72, Phontbonne_73, Cindaradix_69
- Track 13 : Mundrea_72

- Track 14 : Nyxis_72
- Track 15 : FlyCatcher_77, Toro_75
- Track 16 : DroogsArmy_73
- Track 17 : Timshel_74
- Track 18 : HINdeR_73
- Track 19 : Archimedes_32
- Track 20 : Nanosmite_146

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

The start number called the most often in the published annotations is 14, it was called in 156 of the 157 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AbbysRanger_72, Abdiel_73, Achebe_71, Albee_73, Alberto7_74, Annyong_72, Arturo_70, AvatarAhPeg_72, Avle17_73, Baby16_73, Backyardigan_70, Badger_71, BangNhom_71, Bartimeaus_73, BellusTerra_74, Blackmoor_72, Bombshell_73, Broseidon_73, Bruiser_72, BubbleTrouble_72, Bumblebee11_71, Burger_71, Caelakin_72, Camperdownii_71, CentreCat_73, Cerulean_75, ChampagnePapi_76, Chaph_73, Chupacabra_70, Cici_72, Cindaradix_69, Cintron_74, Citius_73, Clarenza_72, Cocoaberry_73, Commander_71, Connomayer_73, Datway_72, Deano_70, Dhanush_73, DirtyDunning_72, DontArgue_69, Drake94_70, DroogsArmy_73, Druantia_72, DustyMartin_75, Eagle_72, Eaglepride_76, Eapen_73, Edison31_69, Eris_72, Eros_73, Eurydice_74, Florean_73, Flux_74, FlyCatcher_77, Funston_72, Gadost_73, Goose_74, HINdeR_73, HamSlice_69, Happiness_72, Holli_72, Houdini22_72, ICleared_72, Iceman_72, Iracema64_73, Jaykayelowell_70, JetBlade_74, JoongJeon_72, KFPoly_72, Kamy_72, Katalie136_72, Kimona_74, Kingmustik0402_73, KittenMittens_69, Koan_68, Koreni_72, Kratak_72, Kremtemulon_72, Kristoff_71, Kye_73, LHTSCC_75, LappelDuVide_73, Lemur_73, LeoAvram_72, LittleB_73, LittleGuy_73, LochMonster_74, Lorenzo_73, Lunsford_73, Maverick_72, Maxo_75, Mayonnaise_70, Mazhar510_73, Medusa_73, MeeZee_72, Melvin_75, Millski_72, Miramae_72, Morpher26_72, Morrow_75, Mundrea_72, Nanosmite_146, Nebs_74, Nemo27_72, Noelle_73, NorthStar_71, NotAPhaseMom_72, Nyxis_72, OKCentral2016_72, OKaNui_72, Obama12_74, Ohfah_74, Palestino_72, PeaceMeal1_70, Peaches_71, Perplexer_72, PeterPeter_73, PetiteSangsue_72, Phacado_73, Phelipe_74, Phighter1804_73, Phontbonne_73, Pipcraft_70, Polymorphads_74, Poompha_70, Pumbaa_73, Rebeuca_74, Relief_72, Romney_72, Roosevelt_71, Rosa24_70, Rowdy_75, Ruin_73, Sabertooth_73, Scamp_73, SenorClean_68, Severus_71, Shaka_71, Shapes_75, SheldonCooper_73, Shygu2_72, Skipitt_72, Sparxx_74, Spino_72, Stasia_71, Stink_72, Taquarus_72, Thanksgivukkah_72, Timshel_74, TinaFeyge_71, Tinybot_72, TiroTheta9_72, Toro_75, TroyPia_74, Twister_73, TygerBlood_73, Ulysses_72, WalterMcMickey_72, Wander_73, Wilbur_73, Wile_71, Wizard007_72, Xena_71, YoSam321_73,

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

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

- Archimedes_32,

Summary by start number:

Start 13:

- Found in 1 of 167 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 157
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Archimedes_32 (DA),

Start 14:

- Found in 166 of 167 (99.4%) of genes in pham
- Manual Annotations of this start: 156 of 157
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AbbysRanger_72 (A4), Abdiel_73 (A4), Achebe_71 (A4), Albee_73 (A4), Alberto7_74 (A4), Annyong_72 (A4), Arturo_70 (A4), AvatarAhPeg_72 (A4), Avle17_73 (A4), Baby16_73 (A4), Backyardigan_70 (A4), Badger_71 (A4), BangNhom_71 (A4), Bartimeaus_73 (A4), BellusTerra_74 (A4), Blackmoor_72 (A4), Bombshell_73 (A4), Broseidon_73 (A4), Bruiser_72 (A4), BubbleTrouble_72 (A4), Bumblebee11_71 (A4), Burger_71 (A4), Caelakin_72 (A4), Camperdownii_71 (A4), CentreCat_73 (A4), Cerulean_75 (A4), ChampagnePapi_76 (A4), Chaph_73 (A4), Chupacabra_70 (A10), Cici_72 (A4), Cindaradix_69 (A4), Cintron_74 (A4), Citius_73 (A4), Clarenza_72 (A4), Cocoaberry_73 (A4), Commander_71 (A4), Connomayer_73 (A4), Datway_72 (A4), Deano_70 (A4), Dhanush_73 (A4), DirtyDunning_72 (A4), DontArgue_69 (A10), Drake94_70 (A10), DroogsArmy_73 (A7), Druantia_72 (A4), DustyMartin_75 (A10), Eagle_72 (A4), Eaglepride_76 (A10), Eapen_73 (A4), Edison31_69 (A10), Eris_72 (A4), Eros_73 (A4), Eurydice_74 (A4), Florean_73 (A4), Flux_74 (A4), FlyCatcher_77 (A7), Funston_72 (A4), Gadost_73 (A4), Goose_74 (A10), HINdeR_73 (A7), HamSlice_69 (A4), Happiness_72 (A4), Holli_72 (A4), Houdini22_72 (A4), ICleared_72 (A4), Iceman_72 (A4), Iracema64_73 (A4), Jaykayelowell_70 (A4), JetBlade_74 (A4), JoongJeon_72 (A4), KFPoly_72 (A4), Kamy_72 (A4), Katalie136_72 (A4), Kimona_74 (A19), Kingmustik0402_73 (A4), KittenMittens_69 (A10), Koan_68 (A4), Koreni_72 (A4), Kratak_72 (A4), Kremtemulon_72 (A4), Kristoff_71 (A10), Kyee_73 (A4), LHTSCC_75 (A4), LappelDuVide_73 (A4), Lemur_73 (A4), LeoAvram_72 (A4), LittleB_73 (A4), LittleGuy_73 (A4), LochMonster_74 (A4), Lorenzo_73 (A4), Lunsford_73 (A4), Maverick_72 (A4), Maxo_75 (A4), Mayonnaise_70 (A4), Mazhar510_73 (A4), Medusa_73 (A4), MeeZee_72 (A4), Melvin_75 (A4), Millski_72 (A4), Miramae_72 (A4), Morpher26_72 (A4), Morrow_75 (A4), Mundrea_72 (A4), Nanosmite_146 (M3), Nebs_74 (A4), Nemo27_72 (A4), Noelle_73 (A4), NorthStar_71 (A4), NotAPhaseMom_72 (A4), Nyxis_72 (A4), OKCentral2016_72 (A10), OKaNui_72 (A4), Obama12_74 (A4), Ohfah_74 (A4), Palestino_72 (A4), PeaceMeal1_70 (A10), Peaches_71 (A4), Perplexer_72 (A4), PeterPeter_73 (A4), PetiteSangsue_72 (A4), Phacado_73 (A4), Phelipe_74 (A4), Phighter1804_73 (A4), Phontbonne_73 (A4), Pipcraft_70 (A4), Polymorphads_74 (A4), Poompha_70 (A10), Pumbaa_73 (A4), Rebeuca_74 (A10), Relief_72 (A4), Romney_72 (A4), Roosevelt_71 (A4), Rosa24_70 (A4), Rowdy_75 (A10), Ruin_73 (A4), Sabertooth_73 (A4), Scamp_73 (A4), SeniorClean_68 (A4), Severus_71 (A10), Shaka_71 (A4), Shapes_75 (A10), SheldonCooper_73 (A4), Shygu2_72 (A4), Skipitt_72 (A4), Sparxx_74 (A4), Spino_72 (A4), Stasia_71 (A4), Stink_72 (A4), Taquarus_72 (A4), Thanksgivukkah_72 (A4), Timshel_74 (A7), TinaFeyge_71 (A4), Tinybot_72 (A4), TiroTheta9_72 (A4), Toro_75 (A7), TroyPia_74 (A4), Twister_73 (A10), TygerBlood_73 (A4), Ulysses_72 (A4), WalterMcMickey_72 (A10), Wander_73 (A4), Wilbur_73 (A4), Wile_71 (A4), Wizard007_72 (A4), Xena_71 (A4), YoSam321_73 (A4),

Summary by clusters:

There are 6 clusters represented in this pham: A7, A19, DA, A4, M3, A10,

Info for manual annotations of cluster A10:

- Start number 14 was manually annotated 14 times for cluster A10.

Info for manual annotations of cluster A19:

- Start number 14 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A4:

- Start number 14 was manually annotated 137 times for cluster A4.

Info for manual annotations of cluster A7:

- Start number 14 was manually annotated 3 times for cluster A7.

Info for manual annotations of cluster DA:

- Start number 13 was manually annotated 1 time for cluster DA.

Info for manual annotations of cluster M3:

- Start number 14 was manually annotated 1 time for cluster M3.

Gene Information:

Gene: AbbysRanger_72 Start: 45254, Stop: 44940, Start Num: 14

Candidate Starts for AbbysRanger_72:

(Start: 14 @45254 has 156 MA's), (16, 45239), (18, 45227), (19, 45218), (32, 45071), (37, 44951),

Gene: Abdiel_73 Start: 45203, Stop: 44889, Start Num: 14

Candidate Starts for Abdiel_73:

(Start: 14 @45203 has 156 MA's), (16, 45188), (18, 45176), (19, 45167), (27, 45071), (32, 45020), (37, 44900),

Gene: Achebe_71 Start: 45237, Stop: 44923, Start Num: 14

Candidate Starts for Achebe_71:

(Start: 14 @45237 has 156 MA's), (16, 45222), (18, 45210), (19, 45201), (27, 45105), (32, 45054), (37, 44934),

Gene: Albee_73 Start: 45191, Stop: 44877, Start Num: 14

Candidate Starts for Albee_73:

(Start: 14 @45191 has 156 MA's), (16, 45176), (18, 45164), (19, 45155), (27, 45059), (32, 45008), (37, 44888),

Gene: Alberto7_74 Start: 45528, Stop: 45214, Start Num: 14

Candidate Starts for Alberto7_74:

(Start: 14 @45528 has 156 MA's), (16, 45513), (18, 45501), (19, 45492), (27, 45396), (32, 45345), (37, 45225),

Gene: Annyong_72 Start: 45236, Stop: 44922, Start Num: 14

Candidate Starts for Annyong_72:

(Start: 14 @45236 has 156 MA's), (16, 45221), (18, 45209), (19, 45200), (27, 45104), (32, 45053), (37, 44933),

Gene: Archimedes_32 Start: 29697, Stop: 29278, Start Num: 13

Candidate Starts for Archimedes_32:

(4, 29817), (10, 29745), (Start: 13 @29697 has 1 MA's), (20, 29613), (21, 29574), (25, 29523),

Gene: Arturo_70 Start: 45319, Stop: 45005, Start Num: 14

Candidate Starts for Arturo_70:

(Start: 14 @45319 has 156 MA's), (16, 45304), (18, 45292), (19, 45283), (27, 45187), (32, 45136), (37, 45016),

Gene: AvatarAhPeg_72 Start: 45127, Stop: 44813, Start Num: 14

Candidate Starts for AvatarAhPeg_72:

(Start: 14 @45127 has 156 MA's), (18, 45100), (27, 44995), (32, 44944), (37, 44824),

Gene: Avle17_73 Start: 45185, Stop: 44871, Start Num: 14

Candidate Starts for Avle17_73:

(Start: 14 @45185 has 156 MA's), (16, 45170), (18, 45158), (19, 45149), (27, 45053), (32, 45002), (37, 44882),

Gene: Baby16_73 Start: 45202, Stop: 44888, Start Num: 14

Candidate Starts for Baby16_73:

(Start: 14 @45202 has 156 MA's), (16, 45187), (18, 45175), (19, 45166), (27, 45070), (32, 45019), (37, 44899),

Gene: Backyardigan_70 Start: 45270, Stop: 44956, Start Num: 14

Candidate Starts for Backyardigan_70:

(Start: 14 @45270 has 156 MA's), (16, 45255), (18, 45243), (19, 45234), (32, 45087), (37, 44967),

Gene: Badger_71 Start: 45238, Stop: 44924, Start Num: 14

Candidate Starts for Badger_71:

(Start: 14 @45238 has 156 MA's), (16, 45223), (18, 45211), (19, 45202), (27, 45106), (32, 45055), (37, 44935),

Gene: BangNhom_71 Start: 45628, Stop: 45314, Start Num: 14

Candidate Starts for BangNhom_71:

(Start: 14 @45628 has 156 MA's), (16, 45613), (18, 45601), (19, 45592), (27, 45496), (32, 45445), (37, 45325),

Gene: Bartimeaus_73 Start: 45193, Stop: 44879, Start Num: 14

Candidate Starts for Bartimeaus_73:

(Start: 14 @45193 has 156 MA's), (16, 45178), (18, 45166), (19, 45157), (27, 45061), (32, 45010), (37, 44890),

Gene: BellusTerra_74 Start: 45232, Stop: 44918, Start Num: 14

Candidate Starts for BellusTerra_74:

(Start: 14 @45232 has 156 MA's), (16, 45217), (18, 45205), (19, 45196), (27, 45100), (32, 45049), (37, 44929),

Gene: Blackmoor_72 Start: 45193, Stop: 44879, Start Num: 14

Candidate Starts for Blackmoor_72:

(Start: 14 @45193 has 156 MA's), (16, 45178), (18, 45166), (19, 45157), (27, 45061), (32, 45010), (37, 44890),

Gene: Bombshell_73 Start: 45188, Stop: 44874, Start Num: 14

Candidate Starts for Bombshell_73:

(Start: 14 @45188 has 156 MA's), (16, 45173), (18, 45161), (19, 45152), (27, 45056), (32, 45005), (37, 44885),

Gene: Broseidon_73 Start: 45194, Stop: 44880, Start Num: 14

Candidate Starts for Broseidon_73:

(Start: 14 @45194 has 156 MA's), (16, 45179), (18, 45167), (19, 45158), (27, 45062), (32, 45011), (37, 44891),

Gene: Bruiser_72 Start: 45191, Stop: 44877, Start Num: 14

Candidate Starts for Bruiser_72:

(Start: 14 @45191 has 156 MA's), (16, 45176), (18, 45164), (19, 45155), (27, 45059), (32, 45008), (37, 44888),

Gene: BubbleTrouble_72 Start: 45218, Stop: 44904, Start Num: 14

Candidate Starts for BubbleTrouble_72:

(Start: 14 @45218 has 156 MA's), (16, 45203), (18, 45191), (19, 45182), (27, 45086), (32, 45035), (37, 44915),

Gene: Bumblebee11_71 Start: 45240, Stop: 44926, Start Num: 14

Candidate Starts for Bumblebee11_71:

(Start: 14 @45240 has 156 MA's), (16, 45225), (18, 45213), (19, 45204), (27, 45108), (32, 45057), (37, 44937),

Gene: Burger_71 Start: 45191, Stop: 44877, Start Num: 14

Candidate Starts for Burger_71:

(Start: 14 @45191 has 156 MA's), (16, 45176), (18, 45164), (19, 45155), (27, 45059), (32, 45008), (37, 44888),

Gene: Caelakin_72 Start: 45191, Stop: 44877, Start Num: 14

Candidate Starts for Caelakin_72:

(Start: 14 @45191 has 156 MA's), (16, 45176), (18, 45164), (19, 45155), (27, 45059), (32, 45008), (37, 44888),

Gene: Camperdownii_71 Start: 44863, Stop: 44549, Start Num: 14

Candidate Starts for Camperdownii_71:

(Start: 14 @44863 has 156 MA's), (16, 44848), (18, 44836), (19, 44827), (27, 44731), (32, 44680), (37, 44560),

Gene: CentreCat_73 Start: 45231, Stop: 44917, Start Num: 14

Candidate Starts for CentreCat_73:

(Start: 14 @45231 has 156 MA's), (16, 45216), (18, 45204), (19, 45195), (27, 45099), (32, 45048), (37, 44928),

Gene: Cerulean_75 Start: 45629, Stop: 45315, Start Num: 14

Candidate Starts for Cerulean_75:

(Start: 14 @45629 has 156 MA's), (16, 45614), (18, 45602), (19, 45593), (27, 45497), (32, 45446), (37, 45326),

Gene: ChampagnePapi_76 Start: 45628, Stop: 45314, Start Num: 14

Candidate Starts for ChampagnePapi_76:

(Start: 14 @45628 has 156 MA's), (16, 45613), (18, 45601), (19, 45592), (27, 45496), (32, 45445), (37, 45325),

Gene: Chaph_73 Start: 45202, Stop: 44888, Start Num: 14

Candidate Starts for Chaph_73:

(Start: 14 @45202 has 156 MA's), (16, 45187), (18, 45175), (19, 45166), (27, 45070), (32, 45019), (37, 44899),

Gene: Chupacabra_70 Start: 44895, Stop: 44578, Start Num: 14

Candidate Starts for Chupacabra_70:

(Start: 14 @44895 has 156 MA's), (27, 44760),

Gene: Cici_72 Start: 45255, Stop: 44941, Start Num: 14

Candidate Starts for Cici_72:

(Start: 14 @45255 has 156 MA's), (16, 45240), (18, 45228), (19, 45219), (27, 45123), (32, 45072), (37, 44952),

Gene: Cindaradix_69 Start: 45089, Stop: 44775, Start Num: 14

Candidate Starts for Cindaradix_69:

(Start: 14 @45089 has 156 MA's), (16, 45074), (18, 45062), (27, 44957), (32, 44906), (33, 44903), (37, 44786),

Gene: Cintron_74 Start: 45342, Stop: 45028, Start Num: 14

Candidate Starts for Cintron_74:

(Start: 14 @45342 has 156 MA's), (16, 45327), (18, 45315), (19, 45306), (27, 45210), (32, 45159), (37, 45039),

Gene: Citius_73 Start: 45212, Stop: 44898, Start Num: 14

Candidate Starts for Citius_73:

(Start: 14 @45212 has 156 MA's), (16, 45197), (18, 45185), (19, 45176), (27, 45080), (32, 45029), (37, 44909),

Gene: Clarenza_72 Start: 45188, Stop: 44874, Start Num: 14

Candidate Starts for Clarenza_72:

(Start: 14 @45188 has 156 MA's), (16, 45173), (18, 45161), (19, 45152), (27, 45056), (32, 45005), (37, 44885),

Gene: Cocoaberry_73 Start: 45192, Stop: 44878, Start Num: 14

Candidate Starts for Cocoaberry_73:

(Start: 14 @45192 has 156 MA's), (16, 45177), (18, 45165), (19, 45156), (27, 45060), (32, 45009), (37, 44889),

Gene: Commander_71 Start: 45189, Stop: 44875, Start Num: 14

Candidate Starts for Commander_71:

(Start: 14 @45189 has 156 MA's), (16, 45174), (18, 45162), (19, 45153), (27, 45057), (32, 45006), (37, 44886),

Gene: Connomayer_73 Start: 45191, Stop: 44877, Start Num: 14

Candidate Starts for Connomayer_73:

(Start: 14 @45191 has 156 MA's), (16, 45176), (18, 45164), (19, 45155), (27, 45059), (32, 45008), (33, 45005), (37, 44888),

Gene: Datway_72 Start: 45253, Stop: 44939, Start Num: 14
Candidate Starts for Datway_72:
(Start: 14 @45253 has 156 MA's), (16, 45238), (18, 45226), (19, 45217), (32, 45070), (37, 44950),

Gene: Deano_70 Start: 45199, Stop: 44885, Start Num: 14
Candidate Starts for Deano_70:
(Start: 14 @45199 has 156 MA's), (16, 45184), (18, 45172), (19, 45163), (27, 45067), (32, 45016), (37, 44896),

Gene: Dhanush_73 Start: 45194, Stop: 44880, Start Num: 14
Candidate Starts for Dhanush_73:
(Start: 14 @45194 has 156 MA's), (16, 45179), (18, 45167), (19, 45158), (27, 45062), (32, 45011), (37, 44891),

Gene: DirtyDunning_72 Start: 45203, Stop: 44889, Start Num: 14
Candidate Starts for DirtyDunning_72:
(Start: 14 @45203 has 156 MA's), (16, 45188), (18, 45176), (19, 45167), (27, 45071), (32, 45020), (37, 44900),

Gene: DontArgue_69 Start: 43915, Stop: 43598, Start Num: 14
Candidate Starts for DontArgue_69:
(Start: 14 @43915 has 156 MA's), (37, 43609),

Gene: Drake94_70 Start: 44044, Stop: 43709, Start Num: 14
Candidate Starts for Drake94_70:
(Start: 14 @44044 has 156 MA's), (27, 43891),

Gene: DroogsArmy_73 Start: 48396, Stop: 48058, Start Num: 14
Candidate Starts for DroogsArmy_73:
(1, 48636), (2, 48603), (Start: 14 @48396 has 156 MA's), (15, 48384), (17, 48366), (26, 48255), (27, 48252), (35, 48126), (36, 48123), (37, 48069),

Gene: Druantia_72 Start: 45194, Stop: 44880, Start Num: 14
Candidate Starts for Druantia_72:
(Start: 14 @45194 has 156 MA's), (16, 45179), (18, 45167), (19, 45158), (27, 45062), (32, 45011), (37, 44891),

Gene: DustyMartin_75 Start: 45046, Stop: 44729, Start Num: 14
Candidate Starts for DustyMartin_75:
(Start: 14 @45046 has 156 MA's), (27, 44911),

Gene: Eagle_72 Start: 45253, Stop: 44939, Start Num: 14
Candidate Starts for Eagle_72:
(Start: 14 @45253 has 156 MA's), (16, 45238), (18, 45226), (19, 45217), (27, 45121), (32, 45070), (37, 44950),

Gene: Eaglepride_76 Start: 44987, Stop: 44670, Start Num: 14
Candidate Starts for Eaglepride_76:
(Start: 14 @44987 has 156 MA's), (27, 44852),

Gene: Eapen_73 Start: 45186, Stop: 44872, Start Num: 14
Candidate Starts for Eapen_73:

(Start: 14 @45186 has 156 MA's), (16, 45171), (18, 45159), (19, 45150), (27, 45054), (32, 45003), (37, 44883),

Gene: Edison31_69 Start: 44762, Stop: 44445, Start Num: 14

Candidate Starts for Edison31_69:

(Start: 14 @44762 has 156 MA's), (27, 44627),

Gene: Eris_72 Start: 45203, Stop: 44889, Start Num: 14

Candidate Starts for Eris_72:

(Start: 14 @45203 has 156 MA's), (16, 45188), (18, 45176), (19, 45167), (27, 45071), (32, 45020), (37, 44900),

Gene: Eros_73 Start: 45193, Stop: 44879, Start Num: 14

Candidate Starts for Eros_73:

(Start: 14 @45193 has 156 MA's), (16, 45178), (18, 45166), (19, 45157), (27, 45061), (32, 45010), (37, 44890),

Gene: Eurydice_74 Start: 45228, Stop: 44914, Start Num: 14

Candidate Starts for Eurydice_74:

(Start: 14 @45228 has 156 MA's), (16, 45213), (18, 45201), (19, 45192), (27, 45096), (32, 45045), (37, 44925),

Gene: Florean_73 Start: 45190, Stop: 44876, Start Num: 14

Candidate Starts for Florean_73:

(Start: 14 @45190 has 156 MA's), (16, 45175), (18, 45163), (19, 45154), (27, 45058), (32, 45007), (37, 44887),

Gene: Flux_74 Start: 45189, Stop: 44875, Start Num: 14

Candidate Starts for Flux_74:

(Start: 14 @45189 has 156 MA's), (16, 45174), (18, 45162), (19, 45153), (27, 45057), (32, 45006), (37, 44886),

Gene: FlyCatcher_77 Start: 48937, Stop: 48617, Start Num: 14

Candidate Starts for FlyCatcher_77:

(3, 49147), (5, 49066), (7, 49036), (11, 49003), (Start: 14 @48937 has 156 MA's), (23, 48832), (27, 48799), (31, 48754), (34, 48730), (37, 48628),

Gene: Funston_72 Start: 45188, Stop: 44874, Start Num: 14

Candidate Starts for Funston_72:

(Start: 14 @45188 has 156 MA's), (16, 45173), (18, 45161), (19, 45152), (27, 45056), (32, 45005), (37, 44885),

Gene: Gadost_73 Start: 45192, Stop: 44878, Start Num: 14

Candidate Starts for Gadost_73:

(Start: 14 @45192 has 156 MA's), (16, 45177), (18, 45165), (19, 45156), (27, 45060), (32, 45009), (37, 44889),

Gene: Goose_74 Start: 44706, Stop: 44389, Start Num: 14

Candidate Starts for Goose_74:

(Start: 14 @44706 has 156 MA's), (27, 44571),

Gene: HINdeR_73 Start: 47777, Stop: 47439, Start Num: 14

Candidate Starts for HINdeR_73:

(9, 47855), (Start: 14 @47777 has 156 MA's), (16, 47762), (17, 47741), (27, 47621), (28, 47618), (30, 47594), (31, 47576), (35, 47507),

Gene: HamSlice_69 Start: 45190, Stop: 44876, Start Num: 14

Candidate Starts for HamSlice_69:

(Start: 14 @45190 has 156 MA's), (16, 45175), (18, 45163), (19, 45154), (27, 45058), (32, 45007), (37, 44887),

Gene: Happiness_72 Start: 45211, Stop: 44897, Start Num: 14

Candidate Starts for Happiness_72:

(Start: 14 @45211 has 156 MA's), (16, 45196), (18, 45184), (19, 45175), (27, 45079), (32, 45028), (37, 44908),

Gene: Holli_72 Start: 44981, Stop: 44667, Start Num: 14

Candidate Starts for Holli_72:

(Start: 14 @44981 has 156 MA's), (16, 44966), (18, 44954), (19, 44945), (27, 44849), (32, 44798), (37, 44678),

Gene: Houdini22_72 Start: 45192, Stop: 44878, Start Num: 14

Candidate Starts for Houdini22_72:

(Start: 14 @45192 has 156 MA's), (16, 45177), (18, 45165), (19, 45156), (27, 45060), (32, 45009), (37, 44889),

Gene: ICleared_72 Start: 45259, Stop: 44945, Start Num: 14

Candidate Starts for ICleared_72:

(Start: 14 @45259 has 156 MA's), (16, 45244), (18, 45232), (27, 45127), (32, 45076), (33, 45073), (37, 44956),

Gene: Iceman_72 Start: 45481, Stop: 45167, Start Num: 14

Candidate Starts for Iceman_72:

(Start: 14 @45481 has 156 MA's), (16, 45466), (18, 45454), (19, 45445), (27, 45349), (32, 45298), (37, 45178),

Gene: Iracema64_73 Start: 45455, Stop: 45141, Start Num: 14

Candidate Starts for Iracema64_73:

(Start: 14 @45455 has 156 MA's), (16, 45440), (18, 45428), (19, 45419), (27, 45323), (32, 45272), (37, 45152),

Gene: Jaykayelowell_70 Start: 45184, Stop: 44870, Start Num: 14

Candidate Starts for Jaykayelowell_70:

(Start: 14 @45184 has 156 MA's), (16, 45169), (18, 45157), (19, 45148), (27, 45052), (32, 45001), (37, 44881),

Gene: JetBlade_74 Start: 45219, Stop: 44905, Start Num: 14

Candidate Starts for JetBlade_74:

(Start: 14 @45219 has 156 MA's), (16, 45204), (18, 45192), (19, 45183), (27, 45087), (32, 45036), (37, 44916),

Gene: JoongJeon_72 Start: 45185, Stop: 44871, Start Num: 14

Candidate Starts for JoongJeon_72:

(Start: 14 @45185 has 156 MA's), (16, 45170), (18, 45158), (19, 45149), (27, 45053), (32, 45002), (37, 44882),

Gene: KFPoly_72 Start: 45185, Stop: 44871, Start Num: 14

Candidate Starts for KFPoly_72:

(Start: 14 @45185 has 156 MA's), (16, 45170), (18, 45158), (19, 45149), (27, 45053), (32, 45002), (37, 44882),

Gene: Kamy_72 Start: 45194, Stop: 44880, Start Num: 14

Candidate Starts for Kamy_72:

(Start: 14 @45194 has 156 MA's), (16, 45179), (18, 45167), (19, 45158), (27, 45062), (32, 45011), (37, 44891),

Gene: Katalie136_72 Start: 45240, Stop: 44926, Start Num: 14

Candidate Starts for Katalie136_72:

(Start: 14 @45240 has 156 MA's), (16, 45225), (18, 45213), (19, 45204), (27, 45108), (32, 45057), (37, 44937),

Gene: Kimona_74 Start: 44271, Stop: 43942, Start Num: 14

Candidate Starts for Kimona_74:

(6, 44373), (8, 44361), (12, 44307), (Start: 14 @44271 has 156 MA's), (24, 44151), (27, 44124), (34, 44055),

Gene: Kingmustik0402_73 Start: 45180, Stop: 44866, Start Num: 14

Candidate Starts for Kingmustik0402_73:

(Start: 14 @45180 has 156 MA's), (16, 45165), (18, 45153), (19, 45144), (27, 45048), (32, 44997), (37, 44877),

Gene: KittenMittens_69 Start: 44054, Stop: 43719, Start Num: 14

Candidate Starts for KittenMittens_69:

(Start: 14 @44054 has 156 MA's), (27, 43901),

Gene: Koan_68 Start: 45191, Stop: 44877, Start Num: 14

Candidate Starts for Koan_68:

(Start: 14 @45191 has 156 MA's), (16, 45176), (18, 45164), (19, 45155), (27, 45059), (32, 45008), (37, 44888),

Gene: Koreni_72 Start: 44872, Stop: 44558, Start Num: 14

Candidate Starts for Koreni_72:

(Start: 14 @44872 has 156 MA's), (16, 44857), (18, 44845), (19, 44836), (27, 44740), (32, 44689), (37, 44569),

Gene: Kratak_72 Start: 45225, Stop: 44911, Start Num: 14

Candidate Starts for Kratak_72:

(Start: 14 @45225 has 156 MA's), (16, 45210), (18, 45198), (19, 45189), (27, 45093), (32, 45042), (37, 44922),

Gene: Kremtemulon_72 Start: 45324, Stop: 45010, Start Num: 14

Candidate Starts for Kremtemulon_72:

(Start: 14 @45324 has 156 MA's), (16, 45309), (18, 45297), (19, 45288), (27, 45192), (32, 45141), (37, 45021),

Gene: Kristoff_71 Start: 45340, Stop: 45023, Start Num: 14

Candidate Starts for Kristoff_71:

(Start: 14 @45340 has 156 MA's), (27, 45205),

Gene: Kyee_73 Start: 45186, Stop: 44872, Start Num: 14

Candidate Starts for Kyee_73:

(Start: 14 @45186 has 156 MA's), (16, 45171), (18, 45159), (19, 45150), (27, 45054), (32, 45003), (37, 44883),

Gene: LHTSCC_75 Start: 45628, Stop: 45314, Start Num: 14

Candidate Starts for LHTSCC_75:

(Start: 14 @45628 has 156 MA's), (16, 45613), (18, 45601), (19, 45592), (27, 45496), (32, 45445), (37, 45325),

Gene: LappelDuVide_73 Start: 45190, Stop: 44876, Start Num: 14

Candidate Starts for LappelDuVide_73:

(Start: 14 @45190 has 156 MA's), (16, 45175), (18, 45163), (19, 45154), (27, 45058), (32, 45007), (37, 44887),

Gene: Lemur_73 Start: 45188, Stop: 44874, Start Num: 14

Candidate Starts for Lemur_73:

(Start: 14 @45188 has 156 MA's), (16, 45173), (18, 45161), (19, 45152), (27, 45056), (32, 45005), (37, 44885),

Gene: LeoAvram_72 Start: 45222, Stop: 44908, Start Num: 14

Candidate Starts for LeoAvram_72:

(Start: 14 @45222 has 156 MA's), (16, 45207), (18, 45195), (19, 45186), (27, 45090), (32, 45039), (37, 44919),

Gene: LittleB_73 Start: 45192, Stop: 44878, Start Num: 14

Candidate Starts for LittleB_73:

(Start: 14 @45192 has 156 MA's), (16, 45177), (18, 45165), (19, 45156), (27, 45060), (32, 45009), (37, 44889),

Gene: LittleGuy_73 Start: 45076, Stop: 44762, Start Num: 14

Candidate Starts for LittleGuy_73:

(Start: 14 @45076 has 156 MA's), (16, 45061), (18, 45049), (19, 45040), (27, 44944), (32, 44893), (37, 44773),

Gene: LochMonster_74 Start: 45427, Stop: 45113, Start Num: 14

Candidate Starts for LochMonster_74:

(Start: 14 @45427 has 156 MA's), (16, 45412), (18, 45400), (19, 45391), (27, 45295), (32, 45244), (37, 45124),

Gene: Lorenzo_73 Start: 45189, Stop: 44875, Start Num: 14

Candidate Starts for Lorenzo_73:

(Start: 14 @45189 has 156 MA's), (16, 45174), (18, 45162), (19, 45153), (27, 45057), (32, 45006), (37, 44886),

Gene: Lunsford_73 Start: 45184, Stop: 44870, Start Num: 14

Candidate Starts for Lunsford_73:

(Start: 14 @45184 has 156 MA's), (16, 45169), (18, 45157), (19, 45148), (27, 45052), (32, 45001), (37, 44881),

Gene: Maverick_72 Start: 45188, Stop: 44874, Start Num: 14

Candidate Starts for Maverick_72:

(Start: 14 @45188 has 156 MA's), (16, 45173), (18, 45161), (19, 45152), (27, 45056), (32, 45005), (37, 44885),

Gene: Maxo_75 Start: 45194, Stop: 44880, Start Num: 14

Candidate Starts for Maxo_75:

(Start: 14 @45194 has 156 MA's), (16, 45179), (18, 45167), (19, 45158), (27, 45062), (32, 45011), (37, 44891),

Gene: Mayonnaise_70 Start: 45188, Stop: 44874, Start Num: 14

Candidate Starts for Mayonnaise_70:

(Start: 14 @45188 has 156 MA's), (16, 45173), (18, 45161), (19, 45152), (27, 45056), (32, 45005), (37, 44885),

Gene: Mazhar510_73 Start: 45189, Stop: 44875, Start Num: 14

Candidate Starts for Mazhar510_73:

(Start: 14 @45189 has 156 MA's), (16, 45174), (18, 45162), (19, 45153), (27, 45057), (32, 45006), (37, 44886),

Gene: Medusa_73 Start: 45204, Stop: 44890, Start Num: 14

Candidate Starts for Medusa_73:

(Start: 14 @45204 has 156 MA's), (16, 45189), (18, 45177), (19, 45168), (27, 45072), (32, 45021), (37, 44901),

Gene: MeeZee_72 Start: 45185, Stop: 44871, Start Num: 14

Candidate Starts for MeeZee_72:

(Start: 14 @45185 has 156 MA's), (16, 45170), (18, 45158), (19, 45149), (27, 45053), (32, 45002), (37, 44882),

Gene: Melvin_75 Start: 45186, Stop: 44872, Start Num: 14

Candidate Starts for Melvin_75:

(Start: 14 @45186 has 156 MA's), (16, 45171), (18, 45159), (19, 45150), (27, 45054), (32, 45003), (37, 44883),

Gene: Millski_72 Start: 45192, Stop: 44878, Start Num: 14

Candidate Starts for Millski_72:

(Start: 14 @45192 has 156 MA's), (16, 45177), (18, 45165), (19, 45156), (27, 45060), (32, 45009), (37, 44889),

Gene: Miramae_72 Start: 44789, Stop: 44475, Start Num: 14

Candidate Starts for Miramae_72:

(Start: 14 @44789 has 156 MA's), (18, 44762), (27, 44657), (32, 44606), (37, 44486),

Gene: Morpher26_72 Start: 45261, Stop: 44947, Start Num: 14

Candidate Starts for Morpher26_72:

(Start: 14 @45261 has 156 MA's), (16, 45246), (18, 45234), (19, 45225), (27, 45129), (32, 45078), (37, 44958),

Gene: Morrow_75 Start: 45231, Stop: 44917, Start Num: 14

Candidate Starts for Morrow_75:

(Start: 14 @45231 has 156 MA's), (16, 45216), (18, 45204), (19, 45195), (27, 45099), (32, 45048), (37, 44928),

Gene: Mundrea_72 Start: 45260, Stop: 44946, Start Num: 14

Candidate Starts for Mundrea_72:

(Start: 14 @45260 has 156 MA's), (16, 45245), (27, 45128), (32, 45077), (37, 44957),

Gene: Nanosmite_146 Start: 72535, Stop: 72203, Start Num: 14

Candidate Starts for Nanosmite_146:

(Start: 14 @72535 has 156 MA's), (27, 72403), (29, 72391), (37, 72214),

Gene: Nebs_74 Start: 45231, Stop: 44917, Start Num: 14

Candidate Starts for Nebs_74:

(Start: 14 @45231 has 156 MA's), (16, 45216), (18, 45204), (19, 45195), (27, 45099), (32, 45048), (37, 44928),

Gene: Nemo27_72 Start: 45187, Stop: 44873, Start Num: 14

Candidate Starts for Nemo27_72:

(Start: 14 @45187 has 156 MA's), (16, 45172), (18, 45160), (19, 45151), (27, 45055), (32, 45004), (37, 44884),

Gene: Noelle_73 Start: 45582, Stop: 45268, Start Num: 14

Candidate Starts for Noelle_73:

(Start: 14 @45582 has 156 MA's), (16, 45567), (18, 45555), (19, 45546), (27, 45450), (32, 45399), (37, 45279),

Gene: NorthStar_71 Start: 45191, Stop: 44877, Start Num: 14

Candidate Starts for NorthStar_71:

(Start: 14 @45191 has 156 MA's), (16, 45176), (18, 45164), (19, 45155), (27, 45059), (32, 45008), (37, 44888),

Gene: NotAPhaseMom_72 Start: 45192, Stop: 44878, Start Num: 14

Candidate Starts for NotAPhaseMom_72:

(Start: 14 @45192 has 156 MA's), (16, 45177), (18, 45165), (19, 45156), (27, 45060), (32, 45009), (37, 44889),

Gene: Nyxis_72 Start: 45070, Stop: 44756, Start Num: 14

Candidate Starts for Nyxis_72:

(Start: 14 @45070 has 156 MA's), (16, 45055), (18, 45043), (27, 44938), (32, 44887), (37, 44767),

Gene: OKCentral2016_72 Start: 44133, Stop: 43816, Start Num: 14

Candidate Starts for OKCentral2016_72:

(Start: 14 @44133 has 156 MA's), (27, 43998),

Gene: OKaNui_72 Start: 45241, Stop: 44927, Start Num: 14

Candidate Starts for OKaNui_72:

(Start: 14 @45241 has 156 MA's), (16, 45226), (18, 45214), (19, 45205), (27, 45109), (32, 45058), (37, 44938),

Gene: Obama12_74 Start: 45612, Stop: 45298, Start Num: 14

Candidate Starts for Obama12_74:

(Start: 14 @45612 has 156 MA's), (16, 45597), (18, 45585), (19, 45576), (27, 45480), (32, 45429), (37, 45309),

Gene: Ohfah_74 Start: 45231, Stop: 44917, Start Num: 14

Candidate Starts for Ohfah_74:

(Start: 14 @45231 has 156 MA's), (16, 45216), (18, 45204), (19, 45195), (27, 45099), (32, 45048), (37, 44928),

Gene: Palestino_72 Start: 45188, Stop: 44874, Start Num: 14

Candidate Starts for Palestino_72:

(Start: 14 @45188 has 156 MA's), (16, 45173), (18, 45161), (19, 45152), (27, 45056), (32, 45005), (37, 44885),

Gene: PeaceMeal1_70 Start: 44055, Stop: 43720, Start Num: 14

Candidate Starts for PeaceMeal1_70:

(Start: 14 @44055 has 156 MA's), (27, 43902),

Gene: Peaches_71 Start: 45190, Stop: 44876, Start Num: 14

Candidate Starts for Peaches_71:

(Start: 14 @45190 has 156 MA's), (16, 45175), (18, 45163), (19, 45154), (27, 45058), (32, 45007), (37, 44887),

Gene: Perplexer_72 Start: 45237, Stop: 44923, Start Num: 14

Candidate Starts for Perplexer_72:

(Start: 14 @45237 has 156 MA's), (16, 45222), (18, 45210), (19, 45201), (32, 45054), (37, 44934),

Gene: PeterPeter_73 Start: 45185, Stop: 44871, Start Num: 14

Candidate Starts for PeterPeter_73:

(Start: 14 @45185 has 156 MA's), (16, 45170), (18, 45158), (19, 45149), (27, 45053), (32, 45002), (37, 44882),

Gene: PetiteSangsue_72 Start: 45240, Stop: 44926, Start Num: 14

Candidate Starts for PetiteSangsue_72:

(Start: 14 @45240 has 156 MA's), (16, 45225), (18, 45213), (19, 45204), (32, 45057), (37, 44937),

Gene: Phacado_73 Start: 45187, Stop: 44873, Start Num: 14

Candidate Starts for Phacado_73:

(Start: 14 @45187 has 156 MA's), (16, 45172), (18, 45160), (19, 45151), (27, 45055), (32, 45004), (37, 44884),

Gene: Phelipe_74 Start: 45231, Stop: 44917, Start Num: 14

Candidate Starts for Phelipe_74:

(Start: 14 @45231 has 156 MA's), (16, 45216), (18, 45204), (19, 45195), (27, 45099), (32, 45048), (37, 44928),

Gene: Phighter1804_73 Start: 45252, Stop: 44938, Start Num: 14

Candidate Starts for Phighter1804_73:

(Start: 14 @45252 has 156 MA's), (16, 45237), (18, 45225), (19, 45216), (27, 45120), (32, 45069), (37, 44949),

Gene: Phontbonne_73 Start: 45086, Stop: 44772, Start Num: 14

Candidate Starts for Phontbonne_73:

(Start: 14 @45086 has 156 MA's), (16, 45071), (18, 45059), (27, 44954), (32, 44903), (33, 44900), (37, 44783),

Gene: Pipcraft_70 Start: 45192, Stop: 44878, Start Num: 14

Candidate Starts for Pipcraft_70:

(Start: 14 @45192 has 156 MA's), (16, 45177), (18, 45165), (19, 45156), (27, 45060), (32, 45009), (37, 44889),

Gene: Polymorphads_74 Start: 45212, Stop: 44898, Start Num: 14

Candidate Starts for Polymorphads_74:

(Start: 14 @45212 has 156 MA's), (16, 45197), (18, 45185), (19, 45176), (27, 45080), (32, 45029), (37, 44909),

Gene: Poompha_70 Start: 44053, Stop: 43718, Start Num: 14

Candidate Starts for Poompha_70:

(Start: 14 @44053 has 156 MA's), (27, 43900),

Gene: Pumbaa_73 Start: 45136, Stop: 44822, Start Num: 14

Candidate Starts for Pumbaa_73:

(Start: 14 @45136 has 156 MA's), (16, 45121), (18, 45109), (19, 45100), (27, 45004), (32, 44953), (37, 44833),

Gene: Rebeuca_74 Start: 45341, Stop: 45024, Start Num: 14

Candidate Starts for Rebeuca_74:

(Start: 14 @45341 has 156 MA's), (27, 45206),

Gene: Relief_72 Start: 45188, Stop: 44874, Start Num: 14

Candidate Starts for Relief_72:

(Start: 14 @45188 has 156 MA's), (16, 45173), (18, 45161), (19, 45152), (27, 45056), (32, 45005), (37, 44885),

Gene: Romney_72 Start: 45188, Stop: 44874, Start Num: 14

Candidate Starts for Romney_72:

(Start: 14 @45188 has 156 MA's), (16, 45173), (18, 45161), (19, 45152), (27, 45056), (32, 45005), (37, 44885),

Gene: Roosevelt_71 Start: 45193, Stop: 44879, Start Num: 14

Candidate Starts for Roosevelt_71:

(Start: 14 @45193 has 156 MA's), (16, 45178), (18, 45166), (19, 45157), (27, 45061), (32, 45010), (37, 44890),

Gene: Rosa24_70 Start: 45219, Stop: 44905, Start Num: 14

Candidate Starts for Rosa24_70:

(Start: 14 @45219 has 156 MA's), (16, 45204), (18, 45192), (19, 45183), (27, 45087), (32, 45036), (37, 44916),

Gene: Rowdy_75 Start: 45046, Stop: 44729, Start Num: 14

Candidate Starts for Rowdy_75:

(Start: 14 @45046 has 156 MA's), (27, 44911),

Gene: Ruin_73 Start: 45184, Stop: 44870, Start Num: 14

Candidate Starts for Ruin_73:

(Start: 14 @45184 has 156 MA's), (16, 45169), (18, 45157), (19, 45148), (27, 45052), (32, 45001), (37, 44881),

Gene: Sabertooth_73 Start: 45196, Stop: 44882, Start Num: 14

Candidate Starts for Sabertooth_73:

(Start: 14 @45196 has 156 MA's), (16, 45181), (18, 45169), (19, 45160), (27, 45064), (32, 45013), (37, 44893),

Gene: Scamp_73 Start: 45193, Stop: 44879, Start Num: 14

Candidate Starts for Scamp_73:

(Start: 14 @45193 has 156 MA's), (16, 45178), (18, 45166), (19, 45157), (27, 45061), (32, 45010), (37, 44890),

Gene: SenorClean_68 Start: 45191, Stop: 44877, Start Num: 14

Candidate Starts for SenorClean_68:

(Start: 14 @45191 has 156 MA's), (16, 45176), (18, 45164), (19, 45155), (27, 45059), (32, 45008), (37, 44888),

Gene: Severus_71 Start: 44053, Stop: 43718, Start Num: 14

Candidate Starts for Severus_71:

(Start: 14 @44053 has 156 MA's), (27, 43900),

Gene: Shaka_71 Start: 45189, Stop: 44875, Start Num: 14

Candidate Starts for Shaka_71:

(Start: 14 @45189 has 156 MA's), (16, 45174), (18, 45162), (19, 45153), (27, 45057), (32, 45006), (37, 44886),

Gene: Shapes_75 Start: 45046, Stop: 44729, Start Num: 14

Candidate Starts for Shapes_75:

(Start: 14 @45046 has 156 MA's), (27, 44911),

Gene: SheldonCooper_73 Start: 45629, Stop: 45315, Start Num: 14

Candidate Starts for SheldonCooper_73:

(Start: 14 @45629 has 156 MA's), (16, 45614), (18, 45602), (19, 45593), (27, 45497), (32, 45446), (37, 45326),

Gene: Shygu2_72 Start: 45292, Stop: 44978, Start Num: 14

Candidate Starts for Shygu2_72:

(Start: 14 @45292 has 156 MA's), (16, 45277), (18, 45265), (19, 45256), (27, 45160), (32, 45109), (37, 44989),

Gene: Skipitt_72 Start: 45185, Stop: 44871, Start Num: 14

Candidate Starts for Skipitt_72:

(Start: 14 @45185 has 156 MA's), (16, 45170), (18, 45158), (19, 45149), (27, 45053), (32, 45002), (37, 44882),

Gene: Sparxx_74 Start: 45187, Stop: 44873, Start Num: 14

Candidate Starts for Sparxx_74:

(Start: 14 @45187 has 156 MA's), (16, 45172), (18, 45160), (19, 45151), (27, 45055), (32, 45004), (37, 44884),

Gene: Spino_72 Start: 45191, Stop: 44877, Start Num: 14

Candidate Starts for Spino_72:

(Start: 14 @45191 has 156 MA's), (16, 45176), (18, 45164), (19, 45155), (27, 45059), (32, 45008), (37, 44888),

Gene: Stasia_71 Start: 45170, Stop: 44856, Start Num: 14

Candidate Starts for Stasia_71:

(Start: 14 @45170 has 156 MA's), (16, 45155), (27, 45038), (28, 45035), (32, 44987),

Gene: Stink_72 Start: 45069, Stop: 44755, Start Num: 14

Candidate Starts for Stink_72:

(Start: 14 @45069 has 156 MA's), (18, 45042), (27, 44937), (32, 44886), (37, 44766),

Gene: Taquarus_72 Start: 45194, Stop: 44880, Start Num: 14

Candidate Starts for Taquarus_72:

(Start: 14 @45194 has 156 MA's), (16, 45179), (18, 45167), (19, 45158), (27, 45062), (32, 45011), (37, 44891),

Gene: Thanksgivukkah_72 Start: 45189, Stop: 44875, Start Num: 14

Candidate Starts for Thanksgivukkah_72:

(Start: 14 @45189 has 156 MA's), (16, 45174), (18, 45162), (19, 45153), (27, 45057), (32, 45006), (37, 44886),

Gene: Timshel_74 Start: 48213, Stop: 47875, Start Num: 14

Candidate Starts for Timshel_74:

(1, 48453), (2, 48420), (Start: 14 @48213 has 156 MA's), (16, 48198), (17, 48177), (22, 48096), (27, 48057), (28, 48054), (30, 48030), (31, 48012), (35, 47943), (36, 47940), (37, 47886),

Gene: TinaFeyge_71 Start: 45186, Stop: 44872, Start Num: 14

Candidate Starts for TinaFeyge_71:

(Start: 14 @45186 has 156 MA's), (16, 45171), (18, 45159), (19, 45150), (27, 45054), (32, 45003), (37, 44883),

Gene: Tinybot_72 Start: 45218, Stop: 44904, Start Num: 14

Candidate Starts for Tinybot_72:

(Start: 14 @45218 has 156 MA's), (16, 45203), (18, 45191), (19, 45182), (27, 45086), (32, 45035), (37, 44915),

Gene: TiroTheta9_72 Start: 45185, Stop: 44871, Start Num: 14

Candidate Starts for TiroTheta9_72:

(Start: 14 @45185 has 156 MA's), (16, 45170), (18, 45158), (19, 45149), (27, 45053), (32, 45002), (37, 44882),

Gene: Toro_75 Start: 48937, Stop: 48617, Start Num: 14

Candidate Starts for Toro_75:

(3, 49147), (5, 49066), (7, 49036), (11, 49003), (Start: 14 @48937 has 156 MA's), (23, 48832), (27, 48799), (31, 48754), (34, 48730), (37, 48628),

Gene: TroyPia_74 Start: 45226, Stop: 44912, Start Num: 14

Candidate Starts for TroyPia_74:

(Start: 14 @45226 has 156 MA's), (16, 45211), (18, 45199), (19, 45190), (27, 45094), (32, 45043), (37, 44923),

Gene: Twister_73 Start: 44890, Stop: 44573, Start Num: 14

Candidate Starts for Twister_73:

(Start: 14 @44890 has 156 MA's), (27, 44755),

Gene: TygerBlood_73 Start: 45191, Stop: 44877, Start Num: 14

Candidate Starts for TygerBlood_73:

(Start: 14 @45191 has 156 MA's), (16, 45176), (18, 45164), (19, 45155), (27, 45059), (32, 45008), (37, 44888),

Gene: Ulysses_72 Start: 44874, Stop: 44560, Start Num: 14

Candidate Starts for Ulysses_72:

(Start: 14 @44874 has 156 MA's), (16, 44859), (18, 44847), (19, 44838), (27, 44742), (32, 44691), (37, 44571),

Gene: WalterMcMickey_72 Start: 44890, Stop: 44573, Start Num: 14

Candidate Starts for WalterMcMickey_72:

(Start: 14 @44890 has 156 MA's), (27, 44755),

Gene: Wander_73 Start: 45185, Stop: 44871, Start Num: 14

Candidate Starts for Wander_73:

(Start: 14 @45185 has 156 MA's), (16, 45170), (18, 45158), (19, 45149), (27, 45053), (32, 45002), (37, 44882),

Gene: Wilbur_73 Start: 45188, Stop: 44874, Start Num: 14

Candidate Starts for Wilbur_73:

(Start: 14 @45188 has 156 MA's), (16, 45173), (18, 45161), (19, 45152), (27, 45056), (32, 45005), (37, 44885),

Gene: Wile_71 Start: 45270, Stop: 44956, Start Num: 14

Candidate Starts for Wile_71:

(Start: 14 @45270 has 156 MA's), (16, 45255), (18, 45243), (19, 45234), (27, 45138), (32, 45087), (37, 44967),

Gene: Wizard007_72 Start: 44996, Stop: 44682, Start Num: 14

Candidate Starts for Wizard007_72:

(Start: 14 @44996 has 156 MA's), (16, 44981), (18, 44969), (19, 44960), (27, 44864), (32, 44813), (37, 44693),

Gene: Xena_71 Start: 45261, Stop: 44947, Start Num: 14

Candidate Starts for Xena_71:

(Start: 14 @45261 has 156 MA's), (16, 45246), (18, 45234), (19, 45225), (32, 45078), (37, 44958),

Gene: YoSam321_73 Start: 45186, Stop: 44872, Start Num: 14

Candidate Starts for YoSam321_73:

(Start: 14 @45186 has 156 MA's), (16, 45171), (18, 45159), (19, 45150), (27, 45054), (32, 45003), (37, 44883),