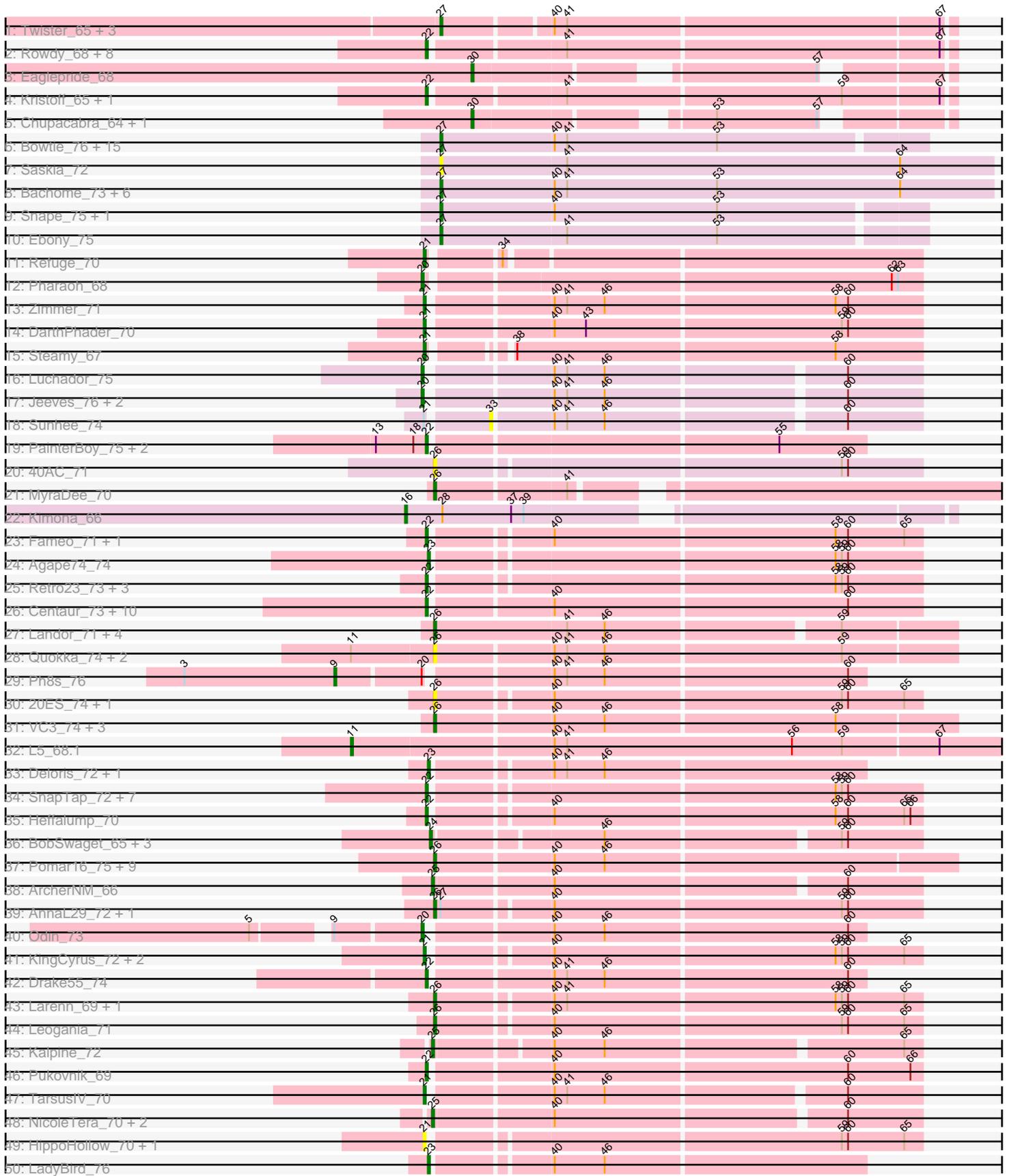
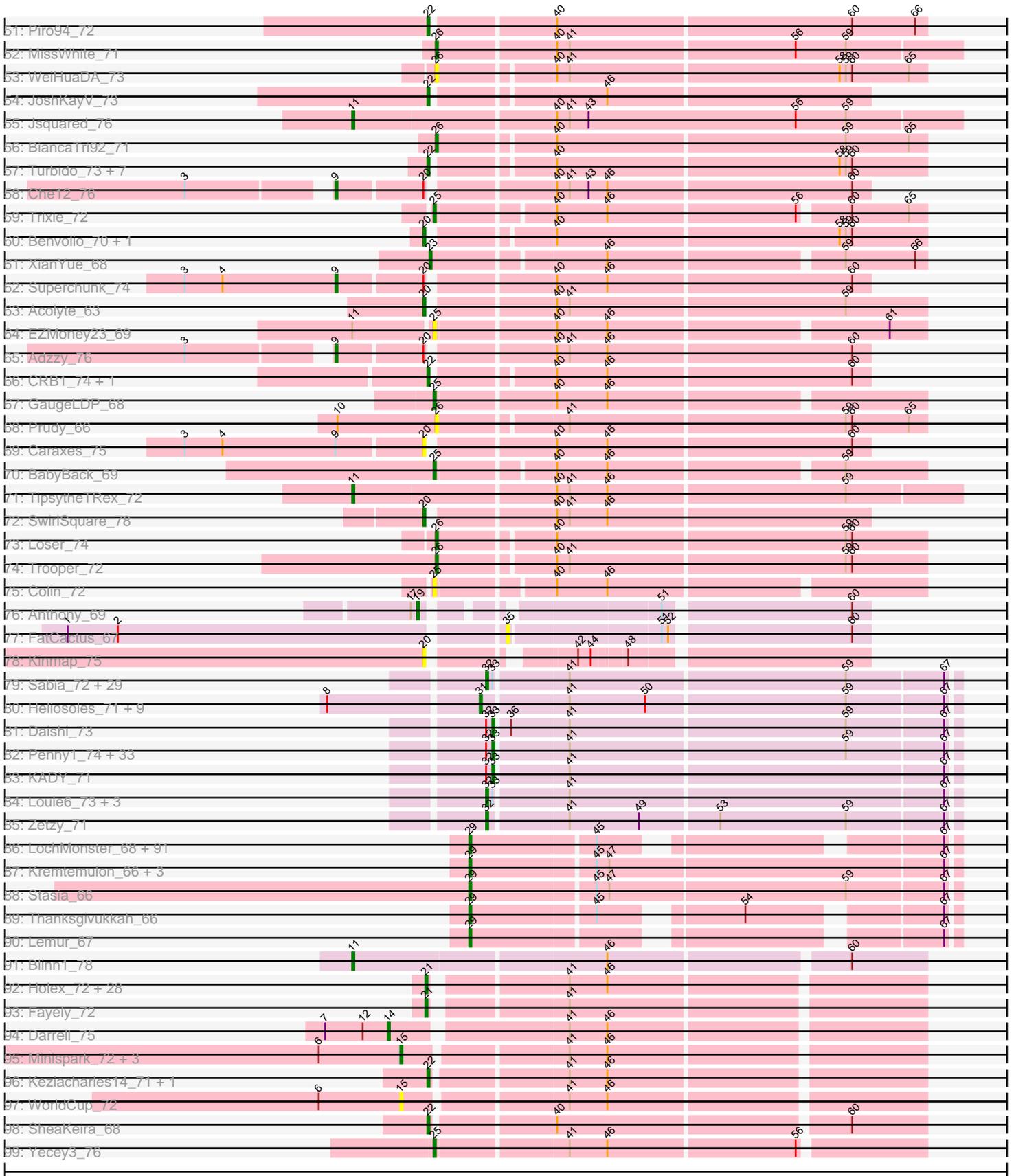


Pham 290726



Pham 290726



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 290726 Report

This analysis was run 03/28/26 on database version 641.

Pham number 290726 has 398 members, 52 are drafts.

Phages represented in each track:

- Track 1 : Twister_65, Topanga_63, Edison31_63, WalterMcMickey_65
- Track 2 : Rowdy_68, Severus_64, Poompha_63, KittenMittens_63, PeaceMeal1_64, Shapes_68, DustyMartin_68, Trike_63, Drake94_64
- Track 3 : Eaglepride_68
- Track 4 : Kristoff_65, Rebeuca_67
- Track 5 : Chupacabra_64, Goose_67
- Track 6 : Bowtie_76, Et2Brutus_74, Flaverint_76, Joselito_74, Mabel_75, Timothy_75, Lucivia_76, Kimba_72, Munch_75, Aneem_76, MaCh_75, Jabith_74, Wolpertinger_73, Orange_74, TinyTimmy_73, Insomnia_74
- Track 7 : Saskia_72
- Track 8 : Bachome_73, Sham4_71, Gilberta_72, Salz_70, Hutc2_70, Bud_70, Petersenfast_69
- Track 9 : Snape_75, Mulciber_73
- Track 10 : Ebony_75
- Track 11 : Refuge_70
- Track 12 : Pharaoh_68
- Track 13 : Zimmer_71
- Track 14 : DarthPhader_70
- Track 15 : Steamy_67
- Track 16 : Luchador_75
- Track 17 : Jeeves_76, SororFago_74, Gail_74
- Track 18 : Sunhee_74
- Track 19 : PainterBoy_75, EagleEye_77, Lucyedi_76
- Track 20 : 40AC_71
- Track 21 : MyraDee_70
- Track 22 : Kimona_66
- Track 23 : Fameo_71, QueenB2_70
- Track 24 : Agape74_74
- Track 25 : Retro23_73, Dalmatian_73, DudeLittle_71, Anselm_74
- Track 26 : Centaur_73, Gratitude_70, Baehexic_71, WideWale_73, NaSiaTalie_73, Terrific_73, Flare16_73, Updawg_73, Equemioh13_72, Sknot_73, MiculUcigas_73
- Track 27 : Landor_71, Tristan_69, IronMan_70, Phaded_68, Jaan_71
- Track 28 : Quokka_74, MajorMajor_74, Bradman_75
- Track 29 : Ph8s_76
- Track 30 : 20ES_74, First_0073
- Track 31 : VC3_74, AN9_75, ANI8_75, C3_68
- Track 32 : L5_68.1

- Track 33 : Deloris_72, BengiVuitton_72
- Track 34 : SnapTap_72, Crucio_73, SemperFi_73, QueenBeesly_73, Georgie2_74, FiringLine_73, Power_72, SweetiePie_72
- Track 35 : Heffalump_70
- Track 36 : BobSwaget_65, Rachaly_68, Miko_66, Lokk_66
- Track 37 : Pomar16_75, Naji_75, D32_74, Tomathan_75, D29_68.1, StarStuff_75, Duplo_75, Kerberos_75, DBQu4n_75, Travvers_74
- Track 38 : ArcherNM_66
- Track 39 : AnnaL29_72, RedRock_71
- Track 40 : Odin_73
- Track 41 : KingCyrus_72, ChipMunk_73, EvilGenius_72
- Track 42 : Drake55_74
- Track 43 : Larenn_69, Malec_70
- Track 44 : Leogania_71
- Track 45 : Kalpine_72
- Track 46 : Pukovnik_69
- Track 47 : TarsusIV_70
- Track 48 : NicoleTera_70, Changeling_71, ForesterFrank_68
- Track 49 : HippoHollow_70, LionsBait_72
- Track 50 : LadyBird_76
- Track 51 : Piro94_72
- Track 52 : MissWhite_71
- Track 53 : WeiHuaDA_73
- Track 54 : JoshKayV_73
- Track 55 : Jsquared_76
- Track 56 : BiancaTri92_71
- Track 57 : Turbido_73, Buggy_74, Dignity_74, Jerm_74, Leviathan_74, Smeagan_75, LilTurb_73, Whabigail7_73
- Track 58 : Che12_76
- Track 59 : Trixie_72
- Track 60 : Benvolio_70, Echild_73
- Track 61 : XianYue_68
- Track 62 : Superchunk_74
- Track 63 : Acolyte_63
- Track 64 : EZMoney23_69
- Track 65 : Adzzy_76
- Track 66 : CRB1_74, HarryHoudini_73
- Track 67 : GaugeLDP_68
- Track 68 : Prudy_66
- Track 69 : Caraxes_75
- Track 70 : BabyBack_69
- Track 71 : TopsytheTRex_72
- Track 72 : SwirlSquare_78
- Track 73 : Loser_74
- Track 74 : Trooper_72
- Track 75 : Colin_72
- Track 76 : Anthony_69
- Track 77 : FatCactus_67
- Track 78 : Kinmap_75
- Track 79 : Sabia_72, Taurus_75, MarQuardt_74, Vix_70, Jobu08_70, GingkoMaracino_74, Grum1_73, Soshari_76, Phoxy_74, Hercules11_74, LBerry_75, Rummer_73, Spike509_74, JenCasNa_75, Methuselah_67, Mainiac_73, Cullens_74, LugYA_77, PotatoSplit_75, Tiffany_73, Anubis_77, JHC117_70, P28Green_74,

Wooldri_76, MoneyMay_73, Microwolf_70, Colbster_70, Farber_74, DaHudson_73, Phoebe_75

- Track 80 : Heliosoles_71, Kalb97_74, PurpleHaze_73, Gemma_71, OlanP_72, Calvinny_71, ClownCar_71, PhishRPhriends_70, HaveUMetTed_74, Manu_73

- Track 81 : Daishi_73

- Track 82 : Penny1_74, Stagni_71, Dieselweasel_74, EpicPhail_75, Montavir_69, AgronaGT15_71, Croquant_71, Aglet_75, AugsMagnumOpus_77, Grub_72, Pembroke_74, GtownJaz_74, Lilith_72, Bxz2_69, Gwennie_69, Malinsilva_76, SoYo_71, Snickers_74, Marie_72, MuchMore_77, SoilDragon_73, Beauxregard13_73, Fernando_74, MadMarie_72, LarryKay_74, PGHhamlin_76, Lowa_71, Bigflo_71, Grif_72, Ollie_74, BreSam8_74, HashRod_75, Sabinator_72, Watson_73

- Track 83 : KADY_71

- Track 84 : Louie6_73, TinyPebbles_73, BuzzBuzz_68, Misomonster_75

- Track 85 : Zetzy_71

- Track 86 : LochMonster_68, Kingmustik0402_67, Sparxx_68, Romney_66, MeeZee_66, PeterPeter_67, Koan_64, Peaches_65, NorthStar_65, Eapen_67, Deano_64, Alberto7_68, Kyee_67, KFPoly_66, NotAPhaseMom_66, Connomayer_67, Scamp_67, Camperdownii_65, LittleB_67, Wilbur_67, Phighter1804_67, Arturo_64, Druantia_66, Eros_67, Ulysses_66, Holli_66, TygerBlood_67, Citius_67, Caelakin_66, Chaph_67, Skipitt_66, Lunsford_67, Kamy_66, Spino_66, Phacado_67, Funston_66, OKaNui_66, Clarenza_66, Sabertooth_67, SeniorClean_68, Mazhar510_67, JoongJeon_66, Burger_65, Mayonnaise_64, Millski_66, Taquarus_66, Commander_65, Bartimeaus_67, Relief_66, Sultana_67, Wander_67, Albee_67, Maxo_68, Flux_67, Maverick_66, Eris_66, Lorenzo_67, TiroTheta9_66, Shaka_65, Huxley_64, KekoraPapaka_64, Melvin_69, HamSlice_63, Jaykayelowell_64, Broseidon_67, Abdiel_67, Koreni_66, Cocoaberry_67, Gadost_67, Annyong_66, Baby16_67, Tinybot_66, LappelDuVide_67, Iracema64_67, DirtyDunning_66, Houdini22_66, Avle17_67, Iceman_66, Pumbaa_67, Bruiser_66, Roosevelt_65, TinaFeyge_65, Nyxis_66, Ruin_67, SteMason_63, Florean_67, Palestino_66, Nemo27_66, Bombshell_67, Dhanush_67, Pipcraft_64, Rosa24_64

- Track 87 : Kremtemulon_66, Kratak_66, Shygu2_66, Cintron_67

- Track 88 : Stasia_66

- Track 89 : Thanksgivukkah_66

- Track 90 : Lemur_67

- Track 91 : Blinn1_78

- Track 92 : Halex_72, Ayanochan_72, Myxus_74, Priya_72, Catalina_76, EdogawaKiddo_72, Aliter_75, Pioneer_74, EmyBug_71, Phonnegut_74, Conquerage_72, Alma_72, HortumSL17_75, PackMan_73, Jiawan_71, Tubs_74, Spouty_72, Qobbit_72, Phaeder_74, RyeScarlet_75, Onglai_72, Sachima_70, ExplosioNervosa_72, Scherzo_73, Beemo_74, Ugenie5_69, Lilleskat_71, Hanray_72, Eidsmoe_72

- Track 93 : Fayely_72

- Track 94 : Darrell_75

- Track 95 : Minispark_72, Bellris_72, Rahalelujah_74, CogOmlette_72

- Track 96 : Keziacharles14_71, LoneWolf_75

- Track 97 : WorldCup_72

- Track 98 : SheaKeira_68

- Track 99 : Yecey3_76

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

The start number called the most often in the published annotations is 29, it was called in 95 of the 346 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abdiel_67, Albee_67, Alberto7_68, Annyong_66, Arturo_64, Avle17_67, Baby16_67, Bartimeaus_67, Bombshell_67, Broseidon_67, Bruiser_66, Burger_65, Caelakin_66, Camperdownii_65, Chaph_67, Cintron_67, Citius_67, Clarenza_66, Cocoaberry_67, Commander_65, Connomayer_67, Deano_64, Dhanush_67, DirtyDunning_66, Druantia_66, Eapen_67, Eris_66, Eros_67, Florean_67, Flux_67, Funston_66, Gadost_67, HamSlice_63, Holli_66, Houdini22_66, Huxley_64, Iceman_66, Iracema64_67, Jaykayelowell_64, JoongJeon_66, KFPoly_66, Kamy_66, KekoraPapaka_64, Kingmustik0402_67, Koan_64, Koreni_66, Kratark_66, Kremtemulon_66, Kyee_67, LappelDuVide_67, Lemur_67, LittleB_67, LochMonster_68, Lorenzo_67, Lunsford_67, Maverick_66, Maxo_68, Mayonnaise_64, Mazhar510_67, MeeZee_66, Melvin_69, Millski_66, Nemo27_66, NorthStar_65, NotAPhaseMom_66, Nyxis_66, OKaNui_66, Palestino_66, Peaches_65, PeterPeter_67, Phacado_67, Phighter1804_67, Pipcraft_64, Pumbaa_67, Relief_66, Romney_66, Roosevelt_65, Rosa24_64, Ruin_67, Sabertooth_67, Scamp_67, SeniorClean_68, Shaka_65, Shygu2_66, Skipitt_66, Sparxx_68, Spino_66, Stasia_66, SteMason_63, Sultana_67, Taquarus_66, Thanksgivukkah_66, TinaFeyge_65, Tinybot_66, TiroTheta9_66, TygerBlood_67, Ulysses_66, Wander_67, Wilbur_67,

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

-

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

- 20ES_74, 40AC_71, AN9_75, ANI8_75, Acolyte_63, Adzzy_76, Agape74_74, Aglet_75, AgronaGT15_71, Aliter_75, Alma_72, Aneem_76, AnnaL29_72, Anselm_74, Anthony_69, Anubis_77, ArcherNM_66, AugsMagnumOpus_77, Ayanochan_72, BabyBack_69, Bachome_73, Baehexic_71, Beauxregard13_73, Beemo_74, Bellris_72, BengiVuitton_72, Benvolio_70, BiancaTri92_71, Bigflo_71, Blinn1_78, BobSwaget_65, Bowtie_76, Bradman_75, BreSam8_74, Bud_70, Buggy_74, BuzzBuzz_68, Bxz2_69, C3_68, CRB1_74, Calvinny_71, Caraxes_75, Catalina_76, Centaur_73, Changeling_71, Che12_76, ChipMunk_73, Chupacabra_64, ClownCar_71, CogOmlette_72, Colbster_70, Colin_72, Conquerage_72, Croquant_71, Crucio_73, Cullens_74, D29_68.1, D32_74, DBQu4n_75, DaHudson_73, Daishi_73, Dalmatian_73, Darrell_75, DarthPhader_70, Deloris_72, Dieselweasel_74, Dignity_74, Drake55_74, Drake94_64, DudeLittle_71, Duplo_75, DustyMartin_68, EZMoney23_69, EagleEye_77, Eaglepride_68, Ebony_75, Echild_73, Edison31_63, EdogawaKiddo_72, Eidsmoe_72, EmyBug_71, EpicPhail_75, Equemioh13_72, Et2Brutus_74, EvilGenius_72, ExplosioNervosa_72, Fameo_71, Farber_74, FatCactus_67, Fayely_72, Fernando_74, FiringLine_73, First_0073, Flare16_73, Flaverint_76, ForesterFrank_68, Gail_74, GaugeLDP_68, Gemma_71, Georgie2_74, Gilberta_72, GingkoMaracino_74, Goose_67, Gratitude_70, Grif_72, Grub_72, Grum1_73, GtownJaz_74, Gwennie_69, Hanray_72, HarryHoudini_73, HashRod_75, HaveUMetTed_74, Heffalump_70, Heliosoles_71, Hercules11_74, HippoHollow_70, Horex_72, HortumSL17_75, Hutc2_70, Insomnia_74, IronMan_70, JHC117_70, Jaan_71, Jabith_74, Jeeves_76, JenCasNa_75, Jerm_74, Jiawan_71, Jobu08_70, Joselito_74, JoshKayV_73,

Jsquared_76, KADY_71, Kalb97_74, Kalpine_72, Kerberos_75, Keziacharles14_71, Kimba_72, Kimona_66, KingCyrus_72, Kinmap_75, KittenMittens_63, Kristoff_65, L5_68.1, LBerry_75, LadyBird_76, Landor_71, Larenn_69, LarryKay_74, Leogania_71, Leviathan_74, LiITurb_73, Lilith_72, Lilleskat_71, LionsBait_72, Lokk_66, LoneWolf_75, Loser_74, Louie6_73, Iowa_71, Luchador_75, Lucivia_76, Lucyedi_76, LugYA_77, MaCh_75, Mabel_75, MadMarie_72, Mainiac_73, MajorMajor_74, Malec_70, Malinsilva_76, Manu_73, MarQuardt_74, Marie_72, Methuselah_67, Microwolf_70, MiculUcigas_73, Miko_66, Minispark_72, Misomonster_75, MissWhite_71, MoneyMay_73, Montavir_69, MuchMore_77, Mulciber_73, Munch_75, MyraDee_70, Myxus_74, NaSiaTalie_73, Naji_75, NicoleTera_70, Odin_73, OlanP_72, Ollie_74, Onglai_72, Orange_74, P28Green_74, PGHhamlin_76, PackMan_73, PainterBoy_75, PeaceMeal1_64, Pembroke_74, Penny1_74, Petersenfast_69, Ph8s_76, Phaded_68, Phaeder_74, Pharaoh_68, PhishRPhriends_70, Phoebe_75, Phonnegut_74, Phoxy_74, Pioneer_74, Piro94_72, Pomar16_75, Poompha_63, PotatoSplit_75, Power_72, Priya_72, Prudy_66, Pukovnik_69, PurpleHaze_73, Qobbit_72, QueenB2_70, QueenBeesly_73, Quokka_74, Rachaly_68, Rahalelujah_74, Rebeuca_67, RedRock_71, Refuge_70, Retro23_73, Rowdy_68, Rummer_73, RyeScarlet_75, Sabia_72, Sabinator_72, Sachima_70, Salz_70, Saskia_72, Scherzo_73, SemperFi_73, Severus_64, Sham4_71, Shapes_68, SheaKeira_68, Sknot_73, Smeagan_75, SnapTap_72, Snape_75, Snickers_74, SoYo_71, SoilDragon_73, SororFago_74, Soshari_76, Spike509_74, Spouty_72, Stagni_71, StarStuff_75, Steamy_67, Sunhee_74, Superchunk_74, SweetiePie_72, SwirlSquare_78, TarsusIV_70, Taurus_75, Terrific_73, Tiffany_73, Timothy_75, TinyPebbles_73, TinyTimmy_73, TipsytheTRex_72, Tomathan_75, Topanga_63, Travvers_74, Trike_63, Tristan_69, Trixie_72, Trooper_72, Tubs_74, Turbido_73, Twister_65, Ugenie5_69, Updawg_73, VC3_74, Vix_70, WalterMcMickey_65, Watson_73, WeiHuaDA_73, Whabigail7_73, WideWale_73, Wolpertinger_73, Wooldri_76, WorldCup_72, XianYue_68, Yecey3_76, Zetzy_71, Zimmer_71,

Summary by start number:

Start 9:

- Found in 6 of 398 (1.5%) of genes in pham
- Manual Annotations of this start: 4 of 346
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Adzzy_76 (A2), Che12_76 (A2), Ph8s_76 (A2), Superchunk_74 (A2),

Start 11:

- Found in 8 of 398 (2.0%) of genes in pham
- Manual Annotations of this start: 4 of 346
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Blinn1_78 (A6), Jsquared_76 (A2), L5_68.1 (A2), TipsytheTRex_72 (A2),

Start 14:

- Found in 1 of 398 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 346
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Darrell_75 (A9),

Start 15:

- Found in 5 of 398 (1.3%) of genes in pham
- Manual Annotations of this start: 1 of 346
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bellris_72 (A9), CogOmlette_72 (A9), Minispark_72 (A9), Rahalelujah_74 (A9), WorldCup_72 (A9),

Start 16:

- Found in 1 of 398 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 346
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kimona_66 (A19),

Start 19:

- Found in 1 of 398 (0.3%) of genes in pham
- Manual Annotations of this start: 1 of 346
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anthony_69 (A20),

Start 20:

- Found in 16 of 398 (4.0%) of genes in pham
- Manual Annotations of this start: 10 of 346
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Acolyte_63 (A2), Benvolio_70 (A2), Caraxes_75 (A2), Echild_73 (A2), Gail_74 (A14), Jeeves_76 (A14), Kinmap_75 (A21), Luchador_75 (A14), Odin_73 (A2), Pharaoh_68 (A12), SororFago_74 (A14), SwirlSquare_78 (A2),

Start 21:

- Found in 41 of 398 (10.3%) of genes in pham
- Manual Annotations of this start: 29 of 346
- Called 97.6% of time when present
- Phage (with cluster) where this start called: Aliter_75 (A9), Alma_72 (A9), Ayanochan_72 (A9), Beemo_74 (A9), Catalina_76 (A9), ChipMunk_73 (A2), Conquerage_72 (A9), DarthPhader_70 (A12), EdogawaKiddo_72 (A9), Eidsmoe_72 (A9), EmyBug_71 (A9), EvilGenius_72 (A2), ExplosioNervosa_72 (A9), Fayely_72 (A9), Hanray_72 (A9), HippoHollow_70 (A2), Horex_72 (A9), HortumSL17_75 (A9), Jiawan_71 (A9), KingCyrus_72 (A2), Lilleskat_71 (A9), LionsBait_72 (A2), Myxus_74 (A9), Onglai_72 (A9), PackMan_73 (A9), Phaeder_74 (A9), Phonnegut_74 (A9), Pioneer_74 (A9), Priya_72 (A9), Qobbit_72 (A9), Refuge_70 (A12), RyeScarlet_75 (A9), Sachima_70 (A9), Scherzo_73 (A9), Spouty_72 (A9), Steamy_67 (A12), TarsusIV_70 (A2), Tubs_74 (A9), Ugenie5_69 (A9), Zimmer_71 (A12),

Start 22:

- Found in 57 of 398 (14.3%) of genes in pham
- Manual Annotations of this start: 51 of 346
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anselm_74 (A2), Baehexic_71 (A2), Buggy_74 (A2), CRB1_74 (A2), Centaur_73 (A2), Crucio_73 (A2), Dalmatian_73 (A2), Dignity_74 (A2), Drake55_74 (A2), Drake94_64 (A10), DudeLittle_71 (A2), DustyMartin_68 (A10), EagleEye_77 (A16), Equemioh13_72 (A2), Fameo_71 (A2), FiringLine_73 (A2), Flare16_73 (A2), Georgie2_74 (A2), Gratitude_70 (A2), HarryHoudini_73 (A2), Heffalump_70 (A2), Jerm_74 (A2), JoshKayV_73 (A2), Keziacharles14_71 (A9), KittenMittens_63 (A10), Kristoff_65 (A10), Leviathan_74

(A2), LilTurb_73 (A2), LoneWolf_75 (A9), Lucyedi_76 (A16), MiculUcigas_73 (A2), NaSiaTalie_73 (A2), PainterBoy_75 (A16), PeaceMeal1_64 (A10), Piro94_72 (A2), Poompha_63 (A10), Power_72 (A2), Pukovnik_69 (A2), QueenB2_70 (A2), QueenBeesly_73 (A2), Rebeuca_67 (A10), Retro23_73 (A2), Rowdy_68 (A10), SemperFi_73 (A2), Severus_64 (A10), Shapes_68 (A10), SheaKeira_68 (A9), Sknot_73 (A2), Smeagan_75 (A2), SnapTap_72 (A2), SweetiePie_72 (A2), Terrific_73 (A2), Trike_63 (A10), Turbido_73 (A2), Updawg_73 (A2), Whabigail7_73 (A2), WideWale_73 (A2),

Start 23:

- Found in 5 of 398 (1.3%) of genes in pham
- Manual Annotations of this start: 5 of 346
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Agape74_74 (A2), BengiVuitton_72 (A2), Deloris_72 (A2), LadyBird_76 (A2), XianYue_68 (A2),

Start 24:

- Found in 4 of 398 (1.0%) of genes in pham
- Manual Annotations of this start: 4 of 346
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BobSwaget_65 (A2), Lokk_66 (A2), Miko_66 (A2), Rachaly_68 (A2),

Start 25:

- Found in 11 of 398 (2.8%) of genes in pham
- Manual Annotations of this start: 8 of 346
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ArcherNM_66 (A2), BabyBack_69 (A2), Changeling_71 (A2), Colin_72 (A2), EZMoney23_69 (A2), ForesterFrank_68 (A2), GaugeLDP_68 (A2), Kalpine_72 (A2), NicoleTera_70 (A2), Trixie_72 (A2), Yecey3_76 (A9),

Start 26:

- Found in 37 of 398 (9.3%) of genes in pham
- Manual Annotations of this start: 28 of 346
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 20ES_74 (A2), 40AC_71 (A17), AN9_75 (A2), ANI8_75 (A2), AnnaL29_72 (A2), BiancaTri92_71 (A2), Bradman_75 (A2), C3_68 (A2), D29_68.1 (A2), D32_74 (A2), DBQu4n_75 (A2), Duplo_75 (A2), First_0073 (A2), IronMan_70 (A2), Jaan_71 (A2), Kerberos_75 (A2), Landor_71 (A2), Larenn_69 (A2), Leogania_71 (A2), Loser_74 (A2), MajorMajor_74 (A2), Malec_70 (A2), MissWhite_71 (A2), MyraDee_70 (A18), Naji_75 (A2), Phaded_68 (A2), Pomar16_75 (A2), Prudy_66 (A2), Quokka_74 (A2), RedRock_71 (A2), StarStuff_75 (A2), Tomathan_75 (A2), Travvers_74 (A2), Tristan_69 (A2), Trooper_72 (A2), VC3_74 (A2), WeiHuaDA_73 (A2),

Start 27:

- Found in 33 of 398 (8.3%) of genes in pham
- Manual Annotations of this start: 27 of 346
- Called 93.9% of time when present
- Phage (with cluster) where this start called: Aneem_76 (A11), Bachome_73 (A11), Bowtie_76 (A11), Bud_70 (A11), Ebony_75 (A11), Edison31_63 (A10), Et2Brutus_74 (A11), Flaverint_76 (A11), Gilberta_72 (A11), Hutc2_70 (A11), Insomnia_74 (A11),

Jabith_74 (A11), Joselito_74 (A11), Kimba_72 (A11), Lucivia_76 (A11), MaCh_75 (A11), Mabel_75 (A11), Mulciber_73 (A11), Munch_75 (A11), Orange_74 (A11), Petersenfast_69 (A11), Salz_70 (A11), Saskia_72 (A11), Sham4_71 (A11), Snape_75 (A11), Timothy_75 (A11), TinyTimmy_73 (A11), Topanga_63 (A10), Twister_65 (A10), WalterMcMickey_65 (A10), Wolpertinger_73 (A11),

Start 29:

- Found in 99 of 398 (24.9%) of genes in pham
- Manual Annotations of this start: 95 of 346
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abdiel_67 (A4), Albee_67 (A4), Alberto7_68 (A4), Annyong_66 (A4), Arturo_64 (A4), Avle17_67 (A4), Baby16_67 (A4), Bartimeaus_67 (A4), Bombshell_67 (A4), Broseidon_67 (A4), Bruiser_66 (A4), Burger_65 (A4), Caelakin_66 (A4), Camperdownii_65 (A4), Chaph_67 (A4), Cintron_67 (A4), Citius_67 (A4), Clarenza_66 (A4), Cocoberry_67 (A4), Commander_65 (A4), Connomayer_67 (A4), Deano_64 (A4), Dhanush_67 (A4), DirtyDunning_66 (A4), Druantia_66 (A4), Eapen_67 (A4), Eris_66 (A4), Eros_67 (A4), Florean_67 (A4), Flux_67 (A4), Funston_66 (A4), Gadost_67 (A4), HamSlice_63 (A4), Holli_66 (A4), Houdini22_66 (A4), Huxley_64 (A4), Iceman_66 (A4), Iracema64_67 (A4), Jaykayelowell_64 (A4), JoongJeon_66 (A4), KFPoly_66 (A4), Kamy_66 (A4), KekoraPapaka_64 (A4), Kingmustik0402_67 (A4), Koan_64 (A4), Koreni_66 (A4), Kratak_66 (A4), Kremtemulon_66 (A4), Kyee_67 (A4), LappelDuVide_67 (A4), Lemur_67 (A4), LittleB_67 (A4), LochMonster_68 (A4), Lorenzo_67 (A4), Lunsford_67 (A4), Maverick_66 (A4), Maxo_68 (A4), Mayonnaise_64 (A4), Mazhar510_67 (A4), MeeZee_66 (A4), Melvin_69 (A4), Millski_66 (A4), Nemo27_66 (A4), NorthStar_65 (A4), NotAPhaseMom_66 (A4), Nyxis_66 (A4), OKaNui_66 (A4), Palestino_66 (A4), Peaches_65 (A4), PeterPeter_67 (A4), Phacado_67 (A4), Phighter1804_67 (A4), Pipcraft_64 (A4), Pumbaa_67 (A4), Relief_66 (A4), Romney_66 (A4), Roosevelt_65 (A4), Rosa24_64 (A4), Ruin_67 (A4), Sabertooth_67 (A4), Scamp_67 (A4), SeniorClean_68 (A4), Shaka_65 (A4), Shygu2_66 (A4), Skipitt_66 (A4), Sparxx_68 (A4), Spino_66 (A4), Stasia_66 (A4), SteMason_63 (A4), Sultana_67 (A4), Taquarus_66 (A4), Thanksgivukkah_66 (A4), TinaFeyge_65 (A4), Tinybot_66 (A4), TiroTheta9_66 (A4), TygerBlood_67 (A4), Ulysses_66 (A4), Wander_67 (A4), Wilbur_67 (A4),

Start 30:

- Found in 3 of 398 (0.8%) of genes in pham
- Manual Annotations of this start: 3 of 346
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chupacabra_64 (A10), Eaglepride_68 (A10), Goose_67 (A10),

Start 31:

- Found in 10 of 398 (2.5%) of genes in pham
- Manual Annotations of this start: 8 of 346
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Calvinny_71 (A3), ClownCar_71 (A3), Gemma_71 (A3), HaveUMetTed_74 (A3), Heliosoles_71 (A3), Kalb97_74 (A3), Manu_73 (A3), OlanP_72 (A3), PhishRPhriends_70 (A3), PurpleHaze_73 (A3),

Start 32:

- Found in 71 of 398 (17.8%) of genes in pham
- Manual Annotations of this start: 35 of 346

- Called 49.3% of time when present
- Phage (with cluster) where this start called: Anubis_77 (A3), BuzzBuzz_68 (A3), Colbster_70 (A3), Cullens_74 (A3), DaHudson_73 (A3), Farber_74 (A3), GingkoMaracino_74 (A3), Grum1_73 (A3), Hercules11_74 (A3), JHC117_70 (A3), JenCasNa_75 (A3), Jobu08_70 (A3), LBerry_75 (A3), Louie6_73 (A3), LugYA_77 (A3), Mainiac_73 (A3), MarQuardt_74 (A3), Methuselah_67 (A3), Microwolf_70 (A3), Misomonster_75 (A3), MoneyMay_73 (A3), P28Green_74 (A3), Phoebe_75 (A3), Phoxy_74 (A3), PotatoSplit_75 (A3), Rummer_73 (A3), Sabia_72 (A3), Soshari_76 (A3), Spike509_74 (A3), Taurus_75 (A3), Tiffany_73 (A3), TinyPebbles_73 (A3), Vix_70 (A3), Wooldri_76 (A3), Zetzy_71 (A3),

Start 33:

- Found in 71 of 398 (17.8%) of genes in pham
- Manual Annotations of this start: 31 of 346
- Called 52.1% of time when present
- Phage (with cluster) where this start called: Aglet_75 (A3), AgronaGT15_71 (A3), AugsMagnumOpus_77 (A3), Beauxregard13_73 (A3), Bigflo_71 (A3), BreSam8_74 (A3), Bxz2_69 (A3), Croquant_71 (A3), Daishi_73 (A3), Dieselweasel_74 (A3), EpicPhail_75 (A3), Fernando_74 (A3), Grif_72 (A3), Grub_72 (A3), GtownJaz_74 (A3), Gwennie_69 (A3), HashRod_75 (A3), KADY_71 (A3), LarryKay_74 (A3), Lilit_72 (A3), Lowa_71 (A3), MadMarie_72 (A3), Malinsilva_76 (A3), Marie_72 (A3), Montavir_69 (A3), MuchMore_77 (A3), Ollie_74 (A3), PGHhamlin_76 (A3), Pembroke_74 (A3), Penny1_74 (A3), Sabinator_72 (A3), Snickers_74 (A3), SoYo_71 (A3), SoilDragon_73 (A3), Stagni_71 (A3), Sunhee_74 (A14), Watson_73 (A3),

Start 35:

- Found in 1 of 398 (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: FatCactus_67 (A20),

Summary by clusters:

There are 15 clusters represented in this pham: A20, A14, A17, A16, A11, A10, A12, A19, A18, A21, A3, A2, A4, A6, A9,

Info for manual annotations of cluster A10:

- Start number 22 was manually annotated 8 times for cluster A10.
- Start number 27 was manually annotated 4 times for cluster A10.
- Start number 30 was manually annotated 3 times for cluster A10.

Info for manual annotations of cluster A11:

- Start number 27 was manually annotated 23 times for cluster A11.

Info for manual annotations of cluster A12:

- Start number 20 was manually annotated 1 time for cluster A12.
- Start number 21 was manually annotated 4 times for cluster A12.

Info for manual annotations of cluster A14:

- Start number 20 was manually annotated 4 times for cluster A14.

Info for manual annotations of cluster A16:

- Start number 22 was manually annotated 3 times for cluster A16.

Info for manual annotations of cluster A18:

- Start number 26 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A19:

- Start number 16 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A2:

- Start number 9 was manually annotated 4 times for cluster A2.
- Start number 11 was manually annotated 3 times for cluster A2.
- Start number 20 was manually annotated 5 times for cluster A2.
- Start number 21 was manually annotated 4 times for cluster A2.
- Start number 22 was manually annotated 37 times for cluster A2.
- Start number 23 was manually annotated 5 times for cluster A2.
- Start number 24 was manually annotated 4 times for cluster A2.
- Start number 25 was manually annotated 7 times for cluster A2.
- Start number 26 was manually annotated 27 times for cluster A2.

Info for manual annotations of cluster A20:

- Start number 19 was manually annotated 1 time for cluster A20.

Info for manual annotations of cluster A3:

- Start number 31 was manually annotated 8 times for cluster A3.
- Start number 32 was manually annotated 35 times for cluster A3.
- Start number 33 was manually annotated 31 times for cluster A3.

Info for manual annotations of cluster A4:

- Start number 29 was manually annotated 95 times for cluster A4.

Info for manual annotations of cluster A6:

- Start number 11 was manually annotated 1 time for cluster A6.

Info for manual annotations of cluster A9:

- Start number 14 was manually annotated 1 time for cluster A9.
- Start number 15 was manually annotated 1 time for cluster A9.
- Start number 21 was manually annotated 21 times for cluster A9.
- Start number 22 was manually annotated 3 times for cluster A9.
- Start number 25 was manually annotated 1 time for cluster A9.

Gene Information:

Gene: 20ES_74 Start: 43517, Stop: 43293, Start Num: 26

Candidate Starts for 20ES_74:

(Start: 26 @43517 has 28 MA's), (40, 43466), (59, 43331), (60, 43328), (65, 43301),

Gene: 40AC_71 Start: 44020, Stop: 43796, Start Num: 26

Candidate Starts for 40AC_71:

(Start: 26 @44020 has 28 MA's), (59, 43834), (60, 43831),

Gene: AN9_75 Start: 43459, Stop: 43217, Start Num: 26
Candidate Starts for AN9_75:
(Start: 26 @43459 has 28 MA's), (40, 43405), (46, 43381), (58, 43273),

Gene: ANI8_75 Start: 43459, Stop: 43217, Start Num: 26
Candidate Starts for ANI8_75:
(Start: 26 @43459 has 28 MA's), (40, 43405), (46, 43381), (58, 43273),

Gene: Abdiel_67 Start: 42370, Stop: 42173, Start Num: 29
Candidate Starts for Abdiel_67:
(Start: 29 @42370 has 95 MA's), (45, 42313), (67, 42178),

Gene: Acolyte_63 Start: 41528, Stop: 41301, Start Num: 20
Candidate Starts for Acolyte_63:
(Start: 20 @41528 has 10 MA's), (40, 41474), (41, 41468), (59, 41339),

Gene: Adzzy_76 Start: 42404, Stop: 42165, Start Num: 9
Candidate Starts for Adzzy_76:
(3, 42464), (Start: 9 @42404 has 4 MA's), (Start: 20 @42365 has 10 MA's), (40, 42311), (41, 42305),
(46, 42287), (60, 42173),

Gene: Agape74_74 Start: 43761, Stop: 43537, Start Num: 23
Candidate Starts for Agape74_74:
(Start: 23 @43761 has 5 MA's), (58, 43578), (59, 43575), (60, 43572),

Gene: Aglet_75 Start: 42842, Stop: 42630, Start Num: 33
Candidate Starts for Aglet_75:
(Start: 32 @42845 has 35 MA's), (Start: 33 @42842 has 31 MA's), (41, 42809), (59, 42680), (67,
42635),

Gene: AgronaGT15_71 Start: 42690, Stop: 42478, Start Num: 33
Candidate Starts for AgronaGT15_71:
(Start: 32 @42693 has 35 MA's), (Start: 33 @42690 has 31 MA's), (41, 42657), (59, 42528), (67,
42483),

Gene: Albee_67 Start: 42357, Stop: 42160, Start Num: 29
Candidate Starts for Albee_67:
(Start: 29 @42357 has 95 MA's), (45, 42300), (67, 42165),

Gene: Alberto7_68 Start: 42694, Stop: 42497, Start Num: 29
Candidate Starts for Alberto7_68:
(Start: 29 @42694 has 95 MA's), (45, 42637), (67, 42502),

Gene: Aliter_75 Start: 42851, Stop: 42633, Start Num: 21
Candidate Starts for Aliter_75:
(Start: 21 @42851 has 29 MA's), (41, 42794), (46, 42776),

Gene: Alma_72 Start: 42828, Stop: 42610, Start Num: 21
Candidate Starts for Alma_72:
(Start: 21 @42828 has 29 MA's), (41, 42771), (46, 42753),

Gene: Aneem_76 Start: 43515, Stop: 43288, Start Num: 27
Candidate Starts for Aneem_76:

(Start: 27 @43515 has 27 MA's), (40, 43461), (41, 43455), (53, 43383),

Gene: AnnaL29_72 Start: 43717, Stop: 43493, Start Num: 26

Candidate Starts for AnnaL29_72:

(Start: 26 @43717 has 28 MA's), (Start: 27 @43714 has 27 MA's), (40, 43666), (59, 43531), (60, 43528),

Gene: Annyong_66 Start: 42402, Stop: 42205, Start Num: 29

Candidate Starts for Annyong_66:

(Start: 29 @42402 has 95 MA's), (45, 42345), (67, 42210),

Gene: Anselm_74 Start: 43911, Stop: 43687, Start Num: 22

Candidate Starts for Anselm_74:

(Start: 22 @43911 has 51 MA's), (58, 43728), (59, 43725), (60, 43722),

Gene: Anthony_69 Start: 41982, Stop: 41797, Start Num: 19

Candidate Starts for Anthony_69:

(17, 41985), (Start: 19 @41982 has 1 MA's), (51, 41889), (60, 41805),

Gene: Anubis_77 Start: 42731, Stop: 42516, Start Num: 32

Candidate Starts for Anubis_77:

(Start: 32 @42731 has 35 MA's), (Start: 33 @42728 has 31 MA's), (41, 42695), (59, 42566), (67, 42521),

Gene: ArcherNM_66 Start: 42985, Stop: 42764, Start Num: 25

Candidate Starts for ArcherNM_66:

(Start: 25 @42985 has 8 MA's), (40, 42931), (60, 42799),

Gene: Arturo_64 Start: 42484, Stop: 42287, Start Num: 29

Candidate Starts for Arturo_64:

(Start: 29 @42484 has 95 MA's), (45, 42427), (67, 42292),

Gene: AugsMagnumOpus_77 Start: 42833, Stop: 42621, Start Num: 33

Candidate Starts for AugsMagnumOpus_77:

(Start: 32 @42836 has 35 MA's), (Start: 33 @42833 has 31 MA's), (41, 42800), (59, 42671), (67, 42626),

Gene: Avle17_67 Start: 42354, Stop: 42157, Start Num: 29

Candidate Starts for Avle17_67:

(Start: 29 @42354 has 95 MA's), (45, 42297), (67, 42162),

Gene: Ayanochan_72 Start: 42614, Stop: 42396, Start Num: 21

Candidate Starts for Ayanochan_72:

(Start: 21 @42614 has 29 MA's), (41, 42557), (46, 42539),

Gene: Baby16_67 Start: 42368, Stop: 42171, Start Num: 29

Candidate Starts for Baby16_67:

(Start: 29 @42368 has 95 MA's), (45, 42311), (67, 42176),

Gene: BabyBack_69 Start: 43490, Stop: 43272, Start Num: 25

Candidate Starts for BabyBack_69:

(Start: 25 @43490 has 8 MA's), (40, 43439), (46, 43415), (59, 43310),

Gene: Bachome_73 Start: 42394, Stop: 42131, Start Num: 27
Candidate Starts for Bachome_73:
(Start: 27 @42394 has 27 MA's), (40, 42340), (41, 42334), (53, 42262), (64, 42175),

Gene: Baehexic_71 Start: 43242, Stop: 43015, Start Num: 22
Candidate Starts for Baehexic_71:
(Start: 22 @43242 has 51 MA's), (40, 43188), (60, 43050),

Gene: Bartimeaus_67 Start: 42359, Stop: 42162, Start Num: 29
Candidate Starts for Bartimeaus_67:
(Start: 29 @42359 has 95 MA's), (45, 42302), (67, 42167),

Gene: Beauxregard13_73 Start: 42845, Stop: 42633, Start Num: 33
Candidate Starts for Beauxregard13_73:
(Start: 32 @42848 has 35 MA's), (Start: 33 @42845 has 31 MA's), (41, 42812), (59, 42683), (67, 42638),

Gene: Beemo_74 Start: 42869, Stop: 42651, Start Num: 21
Candidate Starts for Beemo_74:
(Start: 21 @42869 has 29 MA's), (41, 42812), (46, 42794),

Gene: Bellris_72 Start: 42751, Stop: 42518, Start Num: 15
Candidate Starts for Bellris_72:
(6, 42790), (Start: 15 @42751 has 1 MA's), (41, 42679), (46, 42661),

Gene: BengiVuitton_72 Start: 43467, Stop: 43270, Start Num: 23
Candidate Starts for BengiVuitton_72:
(Start: 23 @43467 has 5 MA's), (40, 43416), (41, 43410), (46, 43392),

Gene: Benvolio_70 Start: 43151, Stop: 42927, Start Num: 20
Candidate Starts for Benvolio_70:
(Start: 20 @43151 has 10 MA's), (40, 43100), (58, 42968), (59, 42965), (60, 42962),

Gene: BiancaTri92_71 Start: 43505, Stop: 43281, Start Num: 26
Candidate Starts for BiancaTri92_71:
(Start: 26 @43505 has 28 MA's), (40, 43454), (59, 43319), (65, 43289),

Gene: Bigflo_71 Start: 42841, Stop: 42629, Start Num: 33
Candidate Starts for Bigflo_71:
(Start: 32 @42844 has 35 MA's), (Start: 33 @42841 has 31 MA's), (41, 42808), (59, 42679), (67, 42634),

Gene: Blinn1_78 Start: 42893, Stop: 42633, Start Num: 11
Candidate Starts for Blinn1_78:
(Start: 11 @42893 has 4 MA's), (46, 42776), (60, 42668),

Gene: BobSwaget_65 Start: 41376, Stop: 41158, Start Num: 24
Candidate Starts for BobSwaget_65:
(Start: 24 @41376 has 4 MA's), (46, 41301), (59, 41196), (60, 41193),

Gene: Bombshell_67 Start: 42354, Stop: 42157, Start Num: 29
Candidate Starts for Bombshell_67:
(Start: 29 @42354 has 95 MA's), (45, 42297), (67, 42162),

Gene: Bowtie_76 Start: 43522, Stop: 43295, Start Num: 27
Candidate Starts for Bowtie_76:
(Start: 27 @43522 has 27 MA's), (40, 43468), (41, 43462), (53, 43390),

Gene: Bradman_75 Start: 42863, Stop: 42621, Start Num: 26
Candidate Starts for Bradman_75:
(Start: 11 @42902 has 4 MA's), (Start: 26 @42863 has 28 MA's), (40, 42809), (41, 42803), (46, 42785),
(59, 42674),

Gene: BreSam8_74 Start: 42835, Stop: 42623, Start Num: 33
Candidate Starts for BreSam8_74:
(Start: 32 @42838 has 35 MA's), (Start: 33 @42835 has 31 MA's), (41, 42802), (59, 42673), (67,
42628),

Gene: Broseidon_67 Start: 42359, Stop: 42162, Start Num: 29
Candidate Starts for Broseidon_67:
(Start: 29 @42359 has 95 MA's), (45, 42302), (67, 42167),

Gene: Bruiser_66 Start: 42357, Stop: 42160, Start Num: 29
Candidate Starts for Bruiser_66:
(Start: 29 @42357 has 95 MA's), (45, 42300), (67, 42165),

Gene: Bud_70 Start: 41952, Stop: 41689, Start Num: 27
Candidate Starts for Bud_70:
(Start: 27 @41952 has 27 MA's), (40, 41898), (41, 41892), (53, 41820), (64, 41733),

Gene: Buggy_74 Start: 43814, Stop: 43590, Start Num: 22
Candidate Starts for Buggy_74:
(Start: 22 @43814 has 51 MA's), (40, 43763), (58, 43631), (59, 43628), (60, 43625),

Gene: Burger_65 Start: 42357, Stop: 42160, Start Num: 29
Candidate Starts for Burger_65:
(Start: 29 @42357 has 95 MA's), (45, 42300), (67, 42165),

Gene: BuzzBuzz_68 Start: 42872, Stop: 42657, Start Num: 32
Candidate Starts for BuzzBuzz_68:
(Start: 32 @42872 has 35 MA's), (Start: 33 @42869 has 31 MA's), (41, 42836), (67, 42662),

Gene: Bxz2_69 Start: 42876, Stop: 42664, Start Num: 33
Candidate Starts for Bxz2_69:
(Start: 32 @42879 has 35 MA's), (Start: 33 @42876 has 31 MA's), (41, 42843), (59, 42714), (67,
42669),

Gene: C3_68 Start: 43459, Stop: 43217, Start Num: 26
Candidate Starts for C3_68:
(Start: 26 @43459 has 28 MA's), (40, 43405), (46, 43381), (58, 43273),

Gene: CRB1_74 Start: 44013, Stop: 43816, Start Num: 22
Candidate Starts for CRB1_74:
(Start: 22 @44013 has 51 MA's), (40, 43962), (46, 43938), (60, 43824),

Gene: Caelakin_66 Start: 42357, Stop: 42160, Start Num: 29

Candidate Starts for Caelakin_66:

(Start: 29 @42357 has 95 MA's), (45, 42300), (67, 42165),

Gene: Calvinny_71 Start: 42664, Stop: 42446, Start Num: 31

Candidate Starts for Calvinny_71:

(8, 42733), (Start: 31 @42664 has 8 MA's), (41, 42625), (50, 42589), (59, 42496), (67, 42451),

Gene: Camperdownii_65 Start: 42031, Stop: 41834, Start Num: 29

Candidate Starts for Camperdownii_65:

(Start: 29 @42031 has 95 MA's), (45, 41974), (67, 41839),

Gene: Caraxes_75 Start: 42129, Stop: 41929, Start Num: 20

Candidate Starts for Caraxes_75:

(3, 42240), (4, 42222), (Start: 9 @42168 has 4 MA's), (Start: 20 @42129 has 10 MA's), (40, 42075), (46, 42051), (60, 41937),

Gene: Catalina_76 Start: 42925, Stop: 42707, Start Num: 21

Candidate Starts for Catalina_76:

(Start: 21 @42925 has 29 MA's), (41, 42868), (46, 42850),

Gene: Centaur_73 Start: 43457, Stop: 43230, Start Num: 22

Candidate Starts for Centaur_73:

(Start: 22 @43457 has 51 MA's), (40, 43403), (60, 43265),

Gene: Changeling_71 Start: 43693, Stop: 43472, Start Num: 25

Candidate Starts for Changeling_71:

(Start: 25 @43693 has 8 MA's), (40, 43639), (60, 43507),

Gene: Chaph_67 Start: 42368, Stop: 42171, Start Num: 29

Candidate Starts for Chaph_67:

(Start: 29 @42368 has 95 MA's), (45, 42311), (67, 42176),

Gene: Che12_76 Start: 42288, Stop: 42049, Start Num: 9

Candidate Starts for Che12_76:

(3, 42348), (Start: 9 @42288 has 4 MA's), (Start: 20 @42249 has 10 MA's), (40, 42195), (41, 42189), (43, 42180), (46, 42171), (60, 42057),

Gene: ChipMunk_73 Start: 44854, Stop: 44630, Start Num: 21

Candidate Starts for ChipMunk_73:

(Start: 21 @44854 has 29 MA's), (40, 44803), (58, 44671), (59, 44668), (60, 44665), (65, 44638),

Gene: Chupacabra_64 Start: 41694, Stop: 41500, Start Num: 30

Candidate Starts for Chupacabra_64:

(Start: 30 @41694 has 3 MA's), (53, 41598), (57, 41550),

Gene: Cintron_67 Start: 42507, Stop: 42283, Start Num: 29

Candidate Starts for Cintron_67:

(Start: 29 @42507 has 95 MA's), (45, 42450), (47, 42444), (67, 42288),

Gene: Citius_67 Start: 42378, Stop: 42181, Start Num: 29

Candidate Starts for Citius_67:

(Start: 29 @42378 has 95 MA's), (45, 42321), (67, 42186),

Gene: Clarenza_66 Start: 42354, Stop: 42157, Start Num: 29

Candidate Starts for Clarenza_66:

(Start: 29 @42354 has 95 MA's), (45, 42297), (67, 42162),

Gene: ClownCar_71 Start: 42657, Stop: 42439, Start Num: 31

Candidate Starts for ClownCar_71:

(8, 42726), (Start: 31 @42657 has 8 MA's), (41, 42618), (50, 42582), (59, 42489), (67, 42444),

Gene: Cocoaberry_67 Start: 42361, Stop: 42164, Start Num: 29

Candidate Starts for Cocoaberry_67:

(Start: 29 @42361 has 95 MA's), (45, 42304), (67, 42169),

Gene: CogOmlette_72 Start: 42748, Stop: 42515, Start Num: 15

Candidate Starts for CogOmlette_72:

(6, 42787), (Start: 15 @42748 has 1 MA's), (41, 42676), (46, 42658),

Gene: Colbster_70 Start: 42848, Stop: 42633, Start Num: 32

Candidate Starts for Colbster_70:

(Start: 32 @42848 has 35 MA's), (Start: 33 @42845 has 31 MA's), (41, 42812), (59, 42683), (67, 42638),

Gene: Colin_72 Start: 44437, Stop: 44219, Start Num: 25

Candidate Starts for Colin_72:

(Start: 25 @44437 has 8 MA's), (40, 44386), (46, 44362),

Gene: Commander_65 Start: 42356, Stop: 42159, Start Num: 29

Candidate Starts for Commander_65:

(Start: 29 @42356 has 95 MA's), (45, 42299), (67, 42164),

Gene: Connomayer_67 Start: 42357, Stop: 42160, Start Num: 29

Candidate Starts for Connomayer_67:

(Start: 29 @42357 has 95 MA's), (45, 42300), (67, 42165),

Gene: Conquerage_72 Start: 42600, Stop: 42382, Start Num: 21

Candidate Starts for Conquerage_72:

(Start: 21 @42600 has 29 MA's), (41, 42543), (46, 42525),

Gene: Croquant_71 Start: 42839, Stop: 42627, Start Num: 33

Candidate Starts for Croquant_71:

(Start: 32 @42842 has 35 MA's), (Start: 33 @42839 has 31 MA's), (41, 42806), (59, 42677), (67, 42632),

Gene: Crucio_73 Start: 43811, Stop: 43587, Start Num: 22

Candidate Starts for Crucio_73:

(Start: 22 @43811 has 51 MA's), (58, 43628), (59, 43625), (60, 43622),

Gene: Cullens_74 Start: 42844, Stop: 42629, Start Num: 32

Candidate Starts for Cullens_74:

(Start: 32 @42844 has 35 MA's), (Start: 33 @42841 has 31 MA's), (41, 42808), (59, 42679), (67, 42634),

Gene: D29_68.1 Start: 44004, Stop: 43762, Start Num: 26

Candidate Starts for D29_68.1:

(Start: 26 @44004 has 28 MA's), (40, 43950), (46, 43926),

Gene: D32_74 Start: 44004, Stop: 43762, Start Num: 26

Candidate Starts for D32_74:

(Start: 26 @44004 has 28 MA's), (40, 43950), (46, 43926),

Gene: DBQu4n_75 Start: 43984, Stop: 43742, Start Num: 26

Candidate Starts for DBQu4n_75:

(Start: 26 @43984 has 28 MA's), (40, 43930), (46, 43906),

Gene: DaHudson_73 Start: 42837, Stop: 42622, Start Num: 32

Candidate Starts for DaHudson_73:

(Start: 32 @42837 has 35 MA's), (Start: 33 @42834 has 31 MA's), (41, 42801), (59, 42672), (67, 42627),

Gene: Daishi_73 Start: 41709, Stop: 41497, Start Num: 33

Candidate Starts for Daishi_73:

(Start: 32 @41712 has 35 MA's), (Start: 33 @41709 has 31 MA's), (36, 41703), (41, 41676), (59, 41547), (67, 41502),

Gene: Dalmatian_73 Start: 43630, Stop: 43406, Start Num: 22

Candidate Starts for Dalmatian_73:

(Start: 22 @43630 has 51 MA's), (58, 43447), (59, 43444), (60, 43441),

Gene: Darrell_75 Start: 43432, Stop: 43193, Start Num: 14

Candidate Starts for Darrell_75:

(7, 43462), (12, 43444), (Start: 14 @43432 has 1 MA's), (41, 43354), (46, 43336),

Gene: DARTHPhader_70 Start: 44013, Stop: 43786, Start Num: 21

Candidate Starts for DARTHPhader_70:

(Start: 21 @44013 has 29 MA's), (40, 43959), (43, 43944), (59, 43824), (60, 43821),

Gene: Deano_64 Start: 42365, Stop: 42168, Start Num: 29

Candidate Starts for Deano_64:

(Start: 29 @42365 has 95 MA's), (45, 42308), (67, 42173),

Gene: Deloris_72 Start: 43163, Stop: 42966, Start Num: 23

Candidate Starts for Deloris_72:

(Start: 23 @43163 has 5 MA's), (40, 43112), (41, 43106), (46, 43088),

Gene: Dhanush_67 Start: 42360, Stop: 42163, Start Num: 29

Candidate Starts for Dhanush_67:

(Start: 29 @42360 has 95 MA's), (45, 42303), (67, 42168),

Gene: Dieselweasel_74 Start: 42843, Stop: 42631, Start Num: 33

Candidate Starts for Dieselweasel_74:

(Start: 32 @42846 has 35 MA's), (Start: 33 @42843 has 31 MA's), (41, 42810), (59, 42681), (67, 42636),

Gene: Dignity_74 Start: 43852, Stop: 43628, Start Num: 22

Candidate Starts for Dignity_74:

(Start: 22 @43852 has 51 MA's), (40, 43801), (58, 43669), (59, 43666), (60, 43663),

Gene: DirtyDunning_66 Start: 42372, Stop: 42175, Start Num: 29

Candidate Starts for DirtyDunning_66:

(Start: 29 @42372 has 95 MA's), (45, 42315), (67, 42180),

Gene: Drake55_74 Start: 43531, Stop: 43331, Start Num: 22

Candidate Starts for Drake55_74:

(Start: 22 @43531 has 51 MA's), (40, 43477), (41, 43471), (46, 43453), (60, 43339),

Gene: Drake94_64 Start: 40814, Stop: 40575, Start Num: 22

Candidate Starts for Drake94_64:

(Start: 22 @40814 has 51 MA's), (41, 40754), (67, 40580),

Gene: Druantia_66 Start: 42360, Stop: 42163, Start Num: 29

Candidate Starts for Druantia_66:

(Start: 29 @42360 has 95 MA's), (45, 42303), (67, 42168),

Gene: DudeLittle_71 Start: 43396, Stop: 43172, Start Num: 22

Candidate Starts for DudeLittle_71:

(Start: 22 @43396 has 51 MA's), (58, 43213), (59, 43210), (60, 43207),

Gene: Duplo_75 Start: 44041, Stop: 43799, Start Num: 26

Candidate Starts for Duplo_75:

(Start: 26 @44041 has 28 MA's), (40, 43987), (46, 43963),

Gene: DustyMartin_68 Start: 41850, Stop: 41611, Start Num: 22

Candidate Starts for DustyMartin_68:

(Start: 22 @41850 has 51 MA's), (41, 41790), (67, 41616),

Gene: EZMoney23_69 Start: 43235, Stop: 43014, Start Num: 25

Candidate Starts for EZMoney23_69:

(Start: 11 @43271 has 4 MA's), (Start: 25 @43235 has 8 MA's), (40, 43181), (46, 43157), (61, 43031),

Gene: EagleEye_77 Start: 43527, Stop: 43327, Start Num: 22

Candidate Starts for EagleEye_77:

(13, 43551), (18, 43533), (Start: 22 @43527 has 51 MA's), (55, 43368),

Gene: Eaglepride_68 Start: 41798, Stop: 41607, Start Num: 30

Candidate Starts for Eaglepride_68:

(Start: 30 @41798 has 3 MA's), (57, 41657),

Gene: Eapen_67 Start: 42352, Stop: 42155, Start Num: 29

Candidate Starts for Eapen_67:

(Start: 29 @42352 has 95 MA's), (45, 42295), (67, 42160),

Gene: Ebony_75 Start: 43086, Stop: 42859, Start Num: 27

Candidate Starts for Ebony_75:

(Start: 27 @43086 has 27 MA's), (41, 43026), (53, 42954),

Gene: Echild_73 Start: 43175, Stop: 42951, Start Num: 20

Candidate Starts for Echild_73:

(Start: 20 @43175 has 10 MA's), (40, 43124), (58, 42992), (59, 42989), (60, 42986),

Gene: Edison31_63 Start: 41608, Stop: 41375, Start Num: 27

Candidate Starts for Edison31_63:

(Start: 27 @41608 has 27 MA's), (40, 41560), (41, 41554), (67, 41380),

Gene: EdogawaKiddo_72 Start: 42891, Stop: 42673, Start Num: 21

Candidate Starts for EdogawaKiddo_72:

(Start: 21 @42891 has 29 MA's), (41, 42834), (46, 42816),

Gene: Eidsmoe_72 Start: 42592, Stop: 42374, Start Num: 21

Candidate Starts for Eidsmoe_72:

(Start: 21 @42592 has 29 MA's), (41, 42535), (46, 42517),

Gene: EmyBug_71 Start: 42594, Stop: 42376, Start Num: 21

Candidate Starts for EmyBug_71:

(Start: 21 @42594 has 29 MA's), (41, 42537), (46, 42519),

Gene: EpicPhail_75 Start: 42845, Stop: 42633, Start Num: 33

Candidate Starts for EpicPhail_75:

(Start: 32 @42848 has 35 MA's), (Start: 33 @42845 has 31 MA's), (41, 42812), (59, 42683), (67, 42638),

Gene: Equemioh13_72 Start: 43362, Stop: 43135, Start Num: 22

Candidate Starts for Equemioh13_72:

(Start: 22 @43362 has 51 MA's), (40, 43308), (60, 43170),

Gene: Eris_66 Start: 42372, Stop: 42175, Start Num: 29

Candidate Starts for Eris_66:

(Start: 29 @42372 has 95 MA's), (45, 42315), (67, 42180),

Gene: Eros_67 Start: 42359, Stop: 42162, Start Num: 29

Candidate Starts for Eros_67:

(Start: 29 @42359 has 95 MA's), (45, 42302), (67, 42167),

Gene: Et2Brutus_74 Start: 43049, Stop: 42822, Start Num: 27

Candidate Starts for Et2Brutus_74:

(Start: 27 @43049 has 27 MA's), (40, 42995), (41, 42989), (53, 42917),

Gene: EvilGenius_72 Start: 44855, Stop: 44631, Start Num: 21

Candidate Starts for EvilGenius_72:

(Start: 21 @44855 has 29 MA's), (40, 44804), (58, 44672), (59, 44669), (60, 44666), (65, 44639),

Gene: ExplosioNervosa_72 Start: 42660, Stop: 42442, Start Num: 21

Candidate Starts for ExplosioNervosa_72:

(Start: 21 @42660 has 29 MA's), (41, 42603), (46, 42585),

Gene: Fameo_71 Start: 43438, Stop: 43214, Start Num: 22

Candidate Starts for Fameo_71:

(Start: 22 @43438 has 51 MA's), (40, 43387), (58, 43255), (60, 43249), (65, 43222),

Gene: Farber_74 Start: 42834, Stop: 42619, Start Num: 32

Candidate Starts for Farber_74:

(Start: 32 @42834 has 35 MA's), (Start: 33 @42831 has 31 MA's), (41, 42798), (59, 42669), (67, 42624),

Gene: FatCactus_67 Start: 41591, Stop: 41430, Start Num: 35
Candidate Starts for FatCactus_67:
(1, 41792), (2, 41768), (35, 41591), (51, 41522), (52, 41519), (60, 41438),

Gene: Fayely_72 Start: 42561, Stop: 42343, Start Num: 21
Candidate Starts for Fayely_72:
(Start: 21 @42561 has 29 MA's), (41, 42504),

Gene: Fernando_74 Start: 42841, Stop: 42629, Start Num: 33
Candidate Starts for Fernando_74:
(Start: 32 @42844 has 35 MA's), (Start: 33 @42841 has 31 MA's), (41, 42808), (59, 42679), (67, 42634),

Gene: FiringLine_73 Start: 43793, Stop: 43569, Start Num: 22
Candidate Starts for FiringLine_73:
(Start: 22 @43793 has 51 MA's), (58, 43610), (59, 43607), (60, 43604),

Gene: First_0073 Start: 43417, Stop: 43193, Start Num: 26
Candidate Starts for First_0073:
(Start: 26 @43417 has 28 MA's), (40, 43366), (59, 43231), (60, 43228), (65, 43201),

Gene: Flare16_73 Start: 43501, Stop: 43274, Start Num: 22
Candidate Starts for Flare16_73:
(Start: 22 @43501 has 51 MA's), (40, 43447), (60, 43309),

Gene: Flaverint_76 Start: 43513, Stop: 43286, Start Num: 27
Candidate Starts for Flaverint_76:
(Start: 27 @43513 has 27 MA's), (40, 43459), (41, 43453), (53, 43381),

Gene: Florean_67 Start: 42356, Stop: 42159, Start Num: 29
Candidate Starts for Florean_67:
(Start: 29 @42356 has 95 MA's), (45, 42299), (67, 42164),

Gene: Flux_67 Start: 42356, Stop: 42159, Start Num: 29
Candidate Starts for Flux_67:
(Start: 29 @42356 has 95 MA's), (45, 42299), (67, 42164),

Gene: ForesterFrank_68 Start: 43507, Stop: 43286, Start Num: 25
Candidate Starts for ForesterFrank_68:
(Start: 25 @43507 has 8 MA's), (40, 43453), (60, 43321),

Gene: Funston_66 Start: 42357, Stop: 42160, Start Num: 29
Candidate Starts for Funston_66:
(Start: 29 @42357 has 95 MA's), (45, 42300), (67, 42165),

Gene: Gadost_67 Start: 42361, Stop: 42164, Start Num: 29
Candidate Starts for Gadost_67:
(Start: 29 @42361 has 95 MA's), (45, 42304), (67, 42169),

Gene: Gail_74 Start: 43840, Stop: 43619, Start Num: 20
Candidate Starts for Gail_74:
(Start: 20 @43840 has 10 MA's), (40, 43786), (41, 43780), (46, 43762), (60, 43654),

Gene: GaugeLDP_68 Start: 43061, Stop: 42840, Start Num: 25

Candidate Starts for GaugeLDP_68:

(Start: 25 @43061 has 8 MA's), (40, 43007), (46, 42983),

Gene: Gemma_71 Start: 42660, Stop: 42442, Start Num: 31

Candidate Starts for Gemma_71:

(8, 42729), (Start: 31 @42660 has 8 MA's), (41, 42621), (50, 42585), (59, 42492), (67, 42447),

Gene: Georgie2_74 Start: 43838, Stop: 43614, Start Num: 22

Candidate Starts for Georgie2_74:

(Start: 22 @43838 has 51 MA's), (58, 43655), (59, 43652), (60, 43649),

Gene: Gilberta_72 Start: 42389, Stop: 42126, Start Num: 27

Candidate Starts for Gilberta_72:

(Start: 27 @42389 has 27 MA's), (40, 42335), (41, 42329), (53, 42257), (64, 42170),

Gene: GingkoMaracino_74 Start: 42730, Stop: 42515, Start Num: 32

Candidate Starts for GingkoMaracino_74:

(Start: 32 @42730 has 35 MA's), (Start: 33 @42727 has 31 MA's), (41, 42694), (59, 42565), (67, 42520),

Gene: Goose_67 Start: 41510, Stop: 41316, Start Num: 30

Candidate Starts for Goose_67:

(Start: 30 @41510 has 3 MA's), (53, 41414), (57, 41366),

Gene: Gratitude_70 Start: 43362, Stop: 43135, Start Num: 22

Candidate Starts for Gratitude_70:

(Start: 22 @43362 has 51 MA's), (40, 43308), (60, 43170),

Gene: Grif_72 Start: 42915, Stop: 42703, Start Num: 33

Candidate Starts for Grif_72:

(Start: 32 @42918 has 35 MA's), (Start: 33 @42915 has 31 MA's), (41, 42882), (59, 42753), (67, 42708),

Gene: Grub_72 Start: 42833, Stop: 42621, Start Num: 33

Candidate Starts for Grub_72:

(Start: 32 @42836 has 35 MA's), (Start: 33 @42833 has 31 MA's), (41, 42800), (59, 42671), (67, 42626),

Gene: Grum1_73 Start: 42844, Stop: 42629, Start Num: 32

Candidate Starts for Grum1_73:

(Start: 32 @42844 has 35 MA's), (Start: 33 @42841 has 31 MA's), (41, 42808), (59, 42679), (67, 42634),

Gene: GtownJaz_74 Start: 42842, Stop: 42630, Start Num: 33

Candidate Starts for GtownJaz_74:

(Start: 32 @42845 has 35 MA's), (Start: 33 @42842 has 31 MA's), (41, 42809), (59, 42680), (67, 42635),

Gene: Gwennie_69 Start: 42845, Stop: 42633, Start Num: 33

Candidate Starts for Gwennie_69:

(Start: 32 @42848 has 35 MA's), (Start: 33 @42845 has 31 MA's), (41, 42812), (59, 42683), (67, 42638),

Gene: HamSlice_63 Start: 42355, Stop: 42158, Start Num: 29

Candidate Starts for HamSlice_63:

(Start: 29 @42355 has 95 MA's), (45, 42298), (67, 42163),

Gene: Hanray_72 Start: 42923, Stop: 42705, Start Num: 21

Candidate Starts for Hanray_72:

(Start: 21 @42923 has 29 MA's), (41, 42866), (46, 42848),

Gene: HarryHoudini_73 Start: 43532, Stop: 43332, Start Num: 22

Candidate Starts for HarryHoudini_73:

(Start: 22 @43532 has 51 MA's), (40, 43478), (46, 43454), (60, 43340),

Gene: HashRod_75 Start: 42869, Stop: 42657, Start Num: 33

Candidate Starts for HashRod_75:

(Start: 32 @42872 has 35 MA's), (Start: 33 @42869 has 31 MA's), (41, 42836), (59, 42707), (67, 42662),

Gene: HaveUMetTed_74 Start: 42649, Stop: 42431, Start Num: 31

Candidate Starts for HaveUMetTed_74:

(8, 42718), (Start: 31 @42649 has 8 MA's), (41, 42610), (50, 42574), (59, 42481), (67, 42436),

Gene: Heffalump_70 Start: 43906, Stop: 43682, Start Num: 22

Candidate Starts for Heffalump_70:

(Start: 22 @43906 has 51 MA's), (40, 43855), (58, 43723), (60, 43717), (65, 43690), (66, 43687),

Gene: Heliosoles_71 Start: 42667, Stop: 42449, Start Num: 31

Candidate Starts for Heliosoles_71:

(8, 42736), (Start: 31 @42667 has 8 MA's), (41, 42628), (50, 42592), (59, 42499), (67, 42454),

Gene: Hercules11_74 Start: 42853, Stop: 42638, Start Num: 32

Candidate Starts for Hercules11_74:

(Start: 32 @42853 has 35 MA's), (Start: 33 @42850 has 31 MA's), (41, 42817), (59, 42688), (67, 42643),

Gene: HippoHollow_70 Start: 44531, Stop: 44307, Start Num: 21

Candidate Starts for HippoHollow_70:

(Start: 21 @44531 has 29 MA's), (59, 44345), (60, 44342), (65, 44315),

Gene: Horex_72 Start: 42939, Stop: 42721, Start Num: 21

Candidate Starts for Horex_72:

(Start: 21 @42939 has 29 MA's), (41, 42882), (46, 42864),

Gene: Holli_66 Start: 42147, Stop: 41950, Start Num: 29

Candidate Starts for Holli_66:

(Start: 29 @42147 has 95 MA's), (45, 42090), (67, 41955),

Gene: HortumSL17_75 Start: 42923, Stop: 42705, Start Num: 21

Candidate Starts for HortumSL17_75:

(Start: 21 @42923 has 29 MA's), (41, 42866), (46, 42848),

Gene: Houdini22_66 Start: 42361, Stop: 42164, Start Num: 29

Candidate Starts for Houdini22_66:

(Start: 29 @42361 has 95 MA's), (45, 42304), (67, 42169),

Gene: Hutc2_70 Start: 41938, Stop: 41675, Start Num: 27

Candidate Starts for Hutc2_70:

(Start: 27 @41938 has 27 MA's), (40, 41884), (41, 41878), (53, 41806), (64, 41719),

Gene: Huxley_64 Start: 42421, Stop: 42224, Start Num: 29

Candidate Starts for Huxley_64:

(Start: 29 @42421 has 95 MA's), (45, 42364), (67, 42229),

Gene: Iceman_66 Start: 42646, Stop: 42449, Start Num: 29

Candidate Starts for Iceman_66:

(Start: 29 @42646 has 95 MA's), (45, 42589), (67, 42454),

Gene: Insomnia_74 Start: 43230, Stop: 43003, Start Num: 27

Candidate Starts for Insomnia_74:

(Start: 27 @43230 has 27 MA's), (40, 43176), (41, 43170), (53, 43098),

Gene: Iracema64_67 Start: 42624, Stop: 42427, Start Num: 29

Candidate Starts for Iracema64_67:

(Start: 29 @42624 has 95 MA's), (45, 42567), (67, 42432),

Gene: IronMan_70 Start: 44663, Stop: 44424, Start Num: 26

Candidate Starts for IronMan_70:

(Start: 26 @44663 has 28 MA's), (41, 44600), (46, 44582), (59, 44477),

Gene: JHC117_70 Start: 42842, Stop: 42627, Start Num: 32

Candidate Starts for JHC117_70:

(Start: 32 @42842 has 35 MA's), (Start: 33 @42839 has 31 MA's), (41, 42806), (59, 42677), (67, 42632),

Gene: Jaan_71 Start: 44833, Stop: 44594, Start Num: 26

Candidate Starts for Jaan_71:

(Start: 26 @44833 has 28 MA's), (41, 44770), (46, 44752), (59, 44647),

Gene: Jabith_74 Start: 43247, Stop: 43020, Start Num: 27

Candidate Starts for Jabith_74:

(Start: 27 @43247 has 27 MA's), (40, 43193), (41, 43187), (53, 43115),

Gene: Jaykayelowell_64 Start: 42350, Stop: 42153, Start Num: 29

Candidate Starts for Jaykayelowell_64:

(Start: 29 @42350 has 95 MA's), (45, 42293), (67, 42158),

Gene: Jeeves_76 Start: 42825, Stop: 42604, Start Num: 20

Candidate Starts for Jeeves_76:

(Start: 20 @42825 has 10 MA's), (40, 42771), (41, 42765), (46, 42747), (60, 42639),

Gene: JenCasNa_75 Start: 42844, Stop: 42629, Start Num: 32

Candidate Starts for JenCasNa_75:

(Start: 32 @42844 has 35 MA's), (Start: 33 @42841 has 31 MA's), (41, 42808), (59, 42679), (67, 42634),

Gene: Jerm_74 Start: 43834, Stop: 43610, Start Num: 22

Candidate Starts for Jerm_74:

(Start: 22 @43834 has 51 MA's), (40, 43783), (58, 43651), (59, 43648), (60, 43645),

Gene: Jiawan_71 Start: 42955, Stop: 42737, Start Num: 21

Candidate Starts for Jiawan_71:

(Start: 21 @42955 has 29 MA's), (41, 42898), (46, 42880),

Gene: Jobu08_70 Start: 42676, Stop: 42461, Start Num: 32

Candidate Starts for Jobu08_70:

(Start: 32 @42676 has 35 MA's), (Start: 33 @42673 has 31 MA's), (41, 42640), (59, 42511), (67, 42466),

Gene: JoongJeon_66 Start: 42354, Stop: 42157, Start Num: 29

Candidate Starts for JoongJeon_66:

(Start: 29 @42354 has 95 MA's), (45, 42297), (67, 42162),

Gene: Joselito_74 Start: 43267, Stop: 43040, Start Num: 27

Candidate Starts for Joselito_74:

(Start: 27 @43267 has 27 MA's), (40, 43213), (41, 43207), (53, 43135),

Gene: JoshKayV_73 Start: 43858, Stop: 43661, Start Num: 22

Candidate Starts for JoshKayV_73:

(Start: 22 @43858 has 51 MA's), (46, 43783),

Gene: Jsquared_76 Start: 43035, Stop: 42751, Start Num: 11

Candidate Starts for Jsquared_76:

(Start: 11 @43035 has 4 MA's), (40, 42942), (41, 42936), (43, 42927), (56, 42828), (59, 42804),

Gene: KADY_71 Start: 42869, Stop: 42657, Start Num: 33

Candidate Starts for KADY_71:

(Start: 32 @42872 has 35 MA's), (Start: 33 @42869 has 31 MA's), (41, 42836), (67, 42662),

Gene: KFPoly_66 Start: 42351, Stop: 42154, Start Num: 29

Candidate Starts for KFPoly_66:

(Start: 29 @42351 has 95 MA's), (45, 42294), (67, 42159),

Gene: Kalb97_74 Start: 42663, Stop: 42445, Start Num: 31

Candidate Starts for Kalb97_74:

(8, 42732), (Start: 31 @42663 has 8 MA's), (41, 42624), (50, 42588), (59, 42495), (67, 42450),

Gene: Kalpine_72 Start: 43855, Stop: 43637, Start Num: 25

Candidate Starts for Kalpine_72:

(Start: 25 @43855 has 8 MA's), (40, 43804), (46, 43780), (65, 43645),

Gene: Kampy_66 Start: 42359, Stop: 42162, Start Num: 29

Candidate Starts for Kampy_66:

(Start: 29 @42359 has 95 MA's), (45, 42302), (67, 42167),

Gene: KekoraPapaka_64 Start: 42357, Stop: 42160, Start Num: 29

Candidate Starts for KekoraPapaka_64:

(Start: 29 @42357 has 95 MA's), (45, 42300), (67, 42165),

Gene: Kerberos_75 Start: 44003, Stop: 43761, Start Num: 26

Candidate Starts for Kerberos_75:

(Start: 26 @44003 has 28 MA's), (40, 43949), (46, 43925),

Gene: Keziacharles14_71 Start: 43500, Stop: 43279, Start Num: 22

Candidate Starts for Keziacharles14_71:

(Start: 22 @43500 has 51 MA's), (41, 43440), (46, 43422),

Gene: Kimba_72 Start: 42767, Stop: 42540, Start Num: 27

Candidate Starts for Kimba_72:

(Start: 27 @42767 has 27 MA's), (40, 42713), (41, 42707), (53, 42635),

Gene: Kimona_66 Start: 41475, Stop: 41236, Start Num: 16

Candidate Starts for Kimona_66:

(Start: 16 @41475 has 1 MA's), (28, 41457), (37, 41424), (39, 41418),

Gene: KingCyrus_72 Start: 44850, Stop: 44626, Start Num: 21

Candidate Starts for KingCyrus_72:

(Start: 21 @44850 has 29 MA's), (40, 44799), (58, 44667), (59, 44664), (60, 44661), (65, 44634),

Gene: Kingmustik0402_67 Start: 42346, Stop: 42149, Start Num: 29

Candidate Starts for Kingmustik0402_67:

(Start: 29 @42346 has 95 MA's), (45, 42289), (67, 42154),

Gene: Kinmap_75 Start: 42177, Stop: 41995, Start Num: 20

Candidate Starts for Kinmap_75:

(Start: 20 @42177 has 10 MA's), (42, 42123), (44, 42117), (48, 42102),

Gene: KittenMittens_63 Start: 40822, Stop: 40583, Start Num: 22

Candidate Starts for KittenMittens_63:

(Start: 22 @40822 has 51 MA's), (41, 40762), (67, 40588),

Gene: Koan_64 Start: 42357, Stop: 42160, Start Num: 29

Candidate Starts for Koan_64:

(Start: 29 @42357 has 95 MA's), (45, 42300), (67, 42165),

Gene: Koreni_66 Start: 42038, Stop: 41841, Start Num: 29

Candidate Starts for Koreni_66:

(Start: 29 @42038 has 95 MA's), (45, 41981), (67, 41846),

Gene: Kratark_66 Start: 42394, Stop: 42170, Start Num: 29

Candidate Starts for Kratark_66:

(Start: 29 @42394 has 95 MA's), (45, 42337), (47, 42331), (67, 42175),

Gene: Kremtemulon_66 Start: 42490, Stop: 42266, Start Num: 29

Candidate Starts for Kremtemulon_66:

(Start: 29 @42490 has 95 MA's), (45, 42433), (47, 42427), (67, 42271),

Gene: Kristoff_65 Start: 42136, Stop: 41897, Start Num: 22

Candidate Starts for Kristoff_65:

(Start: 22 @42136 has 51 MA's), (41, 42076), (59, 41947), (67, 41902),

Gene: Kyee_67 Start: 42355, Stop: 42158, Start Num: 29

Candidate Starts for Kyee_67:

(Start: 29 @42355 has 95 MA's), (45, 42298), (67, 42163),

Gene: L5_68.1 Start: 42962, Stop: 42657, Start Num: 11

Candidate Starts for L5_68.1:

(Start: 11 @42962 has 4 MA's), (40, 42869), (41, 42863), (56, 42755), (59, 42731), (67, 42686),

Gene: LBerry_75 Start: 42848, Stop: 42633, Start Num: 32

Candidate Starts for LBerry_75:

(Start: 32 @42848 has 35 MA's), (Start: 33 @42845 has 31 MA's), (41, 42812), (59, 42683), (67, 42638),

Gene: LadyBird_76 Start: 44079, Stop: 43882, Start Num: 23

Candidate Starts for LadyBird_76:

(Start: 23 @44079 has 5 MA's), (40, 44028), (46, 44004),

Gene: Landor_71 Start: 44756, Stop: 44517, Start Num: 26

Candidate Starts for Landor_71:

(Start: 26 @44756 has 28 MA's), (41, 44693), (46, 44675), (59, 44570),

Gene: LappelDuVide_67 Start: 42356, Stop: 42159, Start Num: 29

Candidate Starts for LappelDuVide_67:

(Start: 29 @42356 has 95 MA's), (45, 42299), (67, 42164),

Gene: Larenn_69 Start: 43196, Stop: 42972, Start Num: 26

Candidate Starts for Larenn_69:

(Start: 26 @43196 has 28 MA's), (40, 43145), (41, 43139), (58, 43013), (59, 43010), (60, 43007), (65, 42980),

Gene: LarryKay_74 Start: 42870, Stop: 42658, Start Num: 33

Candidate Starts for LarryKay_74:

(Start: 32 @42873 has 35 MA's), (Start: 33 @42870 has 31 MA's), (41, 42837), (59, 42708), (67, 42663),

Gene: Lemur_67 Start: 42354, Stop: 42157, Start Num: 29

Candidate Starts for Lemur_67:

(Start: 29 @42354 has 95 MA's), (67, 42162),

Gene: Leogania_71 Start: 43883, Stop: 43659, Start Num: 26

Candidate Starts for Leogania_71:

(Start: 26 @43883 has 28 MA's), (40, 43832), (59, 43697), (60, 43694), (65, 43667),

Gene: Leviathan_74 Start: 43901, Stop: 43677, Start Num: 22

Candidate Starts for Leviathan_74:

(Start: 22 @43901 has 51 MA's), (40, 43850), (58, 43718), (59, 43715), (60, 43712),

Gene: LilTurb_73 Start: 43715, Stop: 43491, Start Num: 22

Candidate Starts for LilTurb_73:

(Start: 22 @43715 has 51 MA's), (40, 43664), (58, 43532), (59, 43529), (60, 43526),

Gene: Lilith_72 Start: 42834, Stop: 42622, Start Num: 33

Candidate Starts for Lilith_72:

(Start: 32 @42837 has 35 MA's), (Start: 33 @42834 has 31 MA's), (41, 42801), (59, 42672), (67, 42627),

Gene: Lilleskat_71 Start: 42880, Stop: 42662, Start Num: 21

Candidate Starts for Lilleskat_71:

(Start: 21 @42880 has 29 MA's), (41, 42823), (46, 42805),

Gene: LionsBait_72 Start: 44532, Stop: 44308, Start Num: 21

Candidate Starts for LionsBait_72:

(Start: 21 @44532 has 29 MA's), (59, 44346), (60, 44343), (65, 44316),

Gene: LittleB_67 Start: 42358, Stop: 42161, Start Num: 29

Candidate Starts for LittleB_67:

(Start: 29 @42358 has 95 MA's), (45, 42301), (67, 42166),

Gene: LochMonster_68 Start: 42596, Stop: 42399, Start Num: 29

Candidate Starts for LochMonster_68:

(Start: 29 @42596 has 95 MA's), (45, 42539), (67, 42404),

Gene: Lokk_66 Start: 42000, Stop: 41782, Start Num: 24

Candidate Starts for Lokk_66:

(Start: 24 @42000 has 4 MA's), (46, 41925), (59, 41820), (60, 41817),

Gene: LoneWolf_75 Start: 43122, Stop: 42901, Start Num: 22

Candidate Starts for LoneWolf_75:

(Start: 22 @43122 has 51 MA's), (41, 43062), (46, 43044),

Gene: Lorenzo_67 Start: 42357, Stop: 42160, Start Num: 29

Candidate Starts for Lorenzo_67:

(Start: 29 @42357 has 95 MA's), (45, 42300), (67, 42165),

Gene: Loser_74 Start: 43958, Stop: 43734, Start Num: 26

Candidate Starts for Loser_74:

(Start: 26 @43958 has 28 MA's), (40, 43907), (59, 43772), (60, 43769),

Gene: Louie6_73 Start: 42874, Stop: 42659, Start Num: 32

Candidate Starts for Louie6_73:

(Start: 32 @42874 has 35 MA's), (Start: 33 @42871 has 31 MA's), (41, 42838), (67, 42664),

Gene: Lowa_71 Start: 42833, Stop: 42621, Start Num: 33

Candidate Starts for Lowa_71:

(Start: 32 @42836 has 35 MA's), (Start: 33 @42833 has 31 MA's), (41, 42800), (59, 42671), (67, 42626),

Gene: Luchador_75 Start: 44307, Stop: 44086, Start Num: 20

Candidate Starts for Luchador_75:

(Start: 20 @44307 has 10 MA's), (40, 44253), (41, 44247), (46, 44229), (60, 44121),

Gene: Lucivia_76 Start: 43546, Stop: 43319, Start Num: 27

Candidate Starts for Lucivia_76:

(Start: 27 @43546 has 27 MA's), (40, 43492), (41, 43486), (53, 43414),

Gene: Lucyedi_76 Start: 43723, Stop: 43523, Start Num: 22

Candidate Starts for Lucyedi_76:

(13, 43747), (18, 43729), (Start: 22 @43723 has 51 MA's), (55, 43564),

Gene: LugYA_77 Start: 42845, Stop: 42630, Start Num: 32

Candidate Starts for LugYA_77:

(Start: 32 @42845 has 35 MA's), (Start: 33 @42842 has 31 MA's), (41, 42809), (59, 42680), (67, 42635),

Gene: Lunsford_67 Start: 42351, Stop: 42154, Start Num: 29

Candidate Starts for Lunsford_67:

(Start: 29 @42351 has 95 MA's), (45, 42294), (67, 42159),

Gene: MaCh_75 Start: 43510, Stop: 43283, Start Num: 27

Candidate Starts for MaCh_75:

(Start: 27 @43510 has 27 MA's), (40, 43456), (41, 43450), (53, 43378),

Gene: Mabel_75 Start: 43511, Stop: 43284, Start Num: 27

Candidate Starts for Mabel_75:

(Start: 27 @43511 has 27 MA's), (40, 43457), (41, 43451), (53, 43379),

Gene: MadMarie_72 Start: 42842, Stop: 42630, Start Num: 33

Candidate Starts for MadMarie_72:

(Start: 32 @42845 has 35 MA's), (Start: 33 @42842 has 31 MA's), (41, 42809), (59, 42680), (67, 42635),

Gene: Mainiac_73 Start: 42837, Stop: 42622, Start Num: 32

Candidate Starts for Mainiac_73:

(Start: 32 @42837 has 35 MA's), (Start: 33 @42834 has 31 MA's), (41, 42801), (59, 42672), (67, 42627),

Gene: MajorMajor_74 Start: 42863, Stop: 42621, Start Num: 26

Candidate Starts for MajorMajor_74:

(Start: 11 @42902 has 4 MA's), (Start: 26 @42863 has 28 MA's), (40, 42809), (41, 42803), (46, 42785), (59, 42674),

Gene: Malec_70 Start: 43763, Stop: 43539, Start Num: 26

Candidate Starts for Malec_70:

(Start: 26 @43763 has 28 MA's), (40, 43712), (41, 43706), (58, 43580), (59, 43577), (60, 43574), (65, 43547),

Gene: Malinsilva_76 Start: 42833, Stop: 42621, Start Num: 33

Candidate Starts for Malinsilva_76:

(Start: 32 @42836 has 35 MA's), (Start: 33 @42833 has 31 MA's), (41, 42800), (59, 42671), (67, 42626),

Gene: Manu_73 Start: 42664, Stop: 42446, Start Num: 31

Candidate Starts for Manu_73:

(8, 42733), (Start: 31 @42664 has 8 MA's), (41, 42625), (50, 42589), (59, 42496), (67, 42451),

Gene: MarQuardt_74 Start: 42846, Stop: 42631, Start Num: 32

Candidate Starts for MarQuardt_74:

(Start: 32 @42846 has 35 MA's), (Start: 33 @42843 has 31 MA's), (41, 42810), (59, 42681), (67, 42636),

Gene: Marie_72 Start: 42841, Stop: 42629, Start Num: 33

Candidate Starts for Marie_72:

(Start: 32 @42844 has 35 MA's), (Start: 33 @42841 has 31 MA's), (41, 42808), (59, 42679), (67, 42634),

Gene: Maverick_66 Start: 42357, Stop: 42160, Start Num: 29

Candidate Starts for Maverick_66:

(Start: 29 @42357 has 95 MA's), (45, 42300), (67, 42165),

Gene: Maxo_68 Start: 42359, Stop: 42162, Start Num: 29

Candidate Starts for Maxo_68:

(Start: 29 @42359 has 95 MA's), (45, 42302), (67, 42167),

Gene: Mayonnaise_64 Start: 42357, Stop: 42160, Start Num: 29

Candidate Starts for Mayonnaise_64:

(Start: 29 @42357 has 95 MA's), (45, 42300), (67, 42165),

Gene: Mazhar510_67 Start: 42358, Stop: 42161, Start Num: 29

Candidate Starts for Mazhar510_67:

(Start: 29 @42358 has 95 MA's), (45, 42301), (67, 42166),

Gene: MeeZee_66 Start: 42354, Stop: 42157, Start Num: 29

Candidate Starts for MeeZee_66:

(Start: 29 @42354 has 95 MA's), (45, 42297), (67, 42162),

Gene: Melvin_69 Start: 42352, Stop: 42155, Start Num: 29

Candidate Starts for Melvin_69:

(Start: 29 @42352 has 95 MA's), (45, 42295), (67, 42160),

Gene: Methuselah_67 Start: 42868, Stop: 42653, Start Num: 32

Candidate Starts for Methuselah_67:

(Start: 32 @42868 has 35 MA's), (Start: 33 @42865 has 31 MA's), (41, 42832), (59, 42703), (67, 42658),

Gene: Microwolf_70 Start: 42860, Stop: 42645, Start Num: 32

Candidate Starts for Microwolf_70:

(Start: 32 @42860 has 35 MA's), (Start: 33 @42857 has 31 MA's), (41, 42824), (59, 42695), (67, 42650),

Gene: MiculUcigas_73 Start: 43404, Stop: 43177, Start Num: 22

Candidate Starts for MiculUcigas_73:

(Start: 22 @43404 has 51 MA's), (40, 43350), (60, 43212),

Gene: Miko_66 Start: 42778, Stop: 42560, Start Num: 24

Candidate Starts for Miko_66:

(Start: 24 @42778 has 4 MA's), (46, 42703), (59, 42598), (60, 42595),

Gene: Millski_66 Start: 42358, Stop: 42161, Start Num: 29

Candidate Starts for Millski_66:

(Start: 29 @42358 has 95 MA's), (45, 42301), (67, 42166),

Gene: Minispark_72 Start: 42745, Stop: 42512, Start Num: 15

Candidate Starts for Minispark_72:

(6, 42784), (Start: 15 @42745 has 1 MA's), (41, 42673), (46, 42655),

Gene: Misomonster_75 Start: 42871, Stop: 42656, Start Num: 32
Candidate Starts for Misomonster_75:
(Start: 32 @42871 has 35 MA's), (Start: 33 @42868 has 31 MA's), (41, 42835), (67, 42661),

Gene: MissWhite_71 Start: 41889, Stop: 41647, Start Num: 26
Candidate Starts for MissWhite_71:
(Start: 26 @41889 has 28 MA's), (40, 41835), (41, 41829), (56, 41724), (59, 41700),

Gene: MoneyMay_73 Start: 42844, Stop: 42629, Start Num: 32
Candidate Starts for MoneyMay_73:
(Start: 32 @42844 has 35 MA's), (Start: 33 @42841 has 31 MA's), (41, 42808), (59, 42679), (67, 42634),

Gene: Montavir_69 Start: 42841, Stop: 42629, Start Num: 33
Candidate Starts for Montavir_69:
(Start: 32 @42844 has 35 MA's), (Start: 33 @42841 has 31 MA's), (41, 42808), (59, 42679), (67, 42634),

Gene: MuchMore_77 Start: 42833, Stop: 42621, Start Num: 33
Candidate Starts for MuchMore_77:
(Start: 32 @42836 has 35 MA's), (Start: 33 @42833 has 31 MA's), (41, 42800), (59, 42671), (67, 42626),

Gene: Mulciber_73 Start: 43052, Stop: 42825, Start Num: 27
Candidate Starts for Mulciber_73:
(Start: 27 @43052 has 27 MA's), (40, 42998), (53, 42920),

Gene: Munch_75 Start: 43515, Stop: 43288, Start Num: 27
Candidate Starts for Munch_75:
(Start: 27 @43515 has 27 MA's), (40, 43461), (41, 43455), (53, 43383),

Gene: MyraDee_70 Start: 40654, Stop: 40406, Start Num: 26
Candidate Starts for MyraDee_70:
(Start: 26 @40654 has 28 MA's), (41, 40594),

Gene: Myxus_74 Start: 42923, Stop: 42705, Start Num: 21
Candidate Starts for Myxus_74:
(Start: 21 @42923 has 29 MA's), (41, 42866), (46, 42848),

Gene: NaSiaTalie_73 Start: 43498, Stop: 43271, Start Num: 22
Candidate Starts for NaSiaTalie_73:
(Start: 22 @43498 has 51 MA's), (40, 43444), (60, 43306),

Gene: Naji_75 Start: 44004, Stop: 43762, Start Num: 26
Candidate Starts for Naji_75:
(Start: 26 @44004 has 28 MA's), (40, 43950), (46, 43926),

Gene: Nemo27_66 Start: 42356, Stop: 42159, Start Num: 29
Candidate Starts for Nemo27_66:
(Start: 29 @42356 has 95 MA's), (45, 42299), (67, 42164),

Gene: NicoleTera_70 Start: 43518, Stop: 43297, Start Num: 25

Candidate Starts for NicoleTera_70:

(Start: 25 @43518 has 8 MA's), (40, 43464), (60, 43332),

Gene: NorthStar_65 Start: 42357, Stop: 42160, Start Num: 29

Candidate Starts for NorthStar_65:

(Start: 29 @42357 has 95 MA's), (45, 42300), (67, 42165),

Gene: NotAPhaseMom_66 Start: 42361, Stop: 42164, Start Num: 29

Candidate Starts for NotAPhaseMom_66:

(Start: 29 @42361 has 95 MA's), (45, 42304), (67, 42169),

Gene: Nyxis_66 Start: 42247, Stop: 42050, Start Num: 29

Candidate Starts for Nyxis_66:

(Start: 29 @42247 has 95 MA's), (45, 42190), (67, 42055),

Gene: OKaNui_66 Start: 42407, Stop: 42210, Start Num: 29

Candidate Starts for OKaNui_66:

(Start: 29 @42407 has 95 MA's), (45, 42350), (67, 42215),

Gene: Odin_73 Start: 42517, Stop: 42317, Start Num: 20

Candidate Starts for Odin_73:

(5, 42586), (Start: 9 @42556 has 4 MA's), (Start: 20 @42517 has 10 MA's), (40, 42463), (46, 42439), (60, 42325),

Gene: OlanP_72 Start: 42837, Stop: 42619, Start Num: 31

Candidate Starts for OlanP_72:

(8, 42906), (Start: 31 @42837 has 8 MA's), (41, 42798), (50, 42762), (59, 42669), (67, 42624),

Gene: Ollie_74 Start: 42712, Stop: 42500, Start Num: 33

Candidate Starts for Ollie_74:

(Start: 32 @42715 has 35 MA's), (Start: 33 @42712 has 31 MA's), (41, 42679), (59, 42550), (67, 42505),

Gene: Onglai_72 Start: 41127, Stop: 40909, Start Num: 21

Candidate Starts for Onglai_72:

(Start: 21 @41127 has 29 MA's), (41, 41070), (46, 41052),

Gene: Orange_74 Start: 43064, Stop: 42837, Start Num: 27

Candidate Starts for Orange_74:

(Start: 27 @43064 has 27 MA's), (40, 43010), (41, 43004), (53, 42932),

Gene: P28Green_74 Start: 42847, Stop: 42632, Start Num: 32

Candidate Starts for P28Green_74:

(Start: 32 @42847 has 35 MA's), (Start: 33 @42844 has 31 MA's), (41, 42811), (59, 42682), (67, 42637),

Gene: PGHhamlin_76 Start: 42833, Stop: 42621, Start Num: 33

Candidate Starts for PGHhamlin_76:

(Start: 32 @42836 has 35 MA's), (Start: 33 @42833 has 31 MA's), (41, 42800), (59, 42671), (67, 42626),

Gene: PackMan_73 Start: 42798, Stop: 42580, Start Num: 21

Candidate Starts for PackMan_73:

(Start: 21 @42798 has 29 MA's), (41, 42741), (46, 42723),

Gene: PainterBoy_75 Start: 43432, Stop: 43232, Start Num: 22

Candidate Starts for PainterBoy_75:

(13, 43456), (18, 43438), (Start: 22 @43432 has 51 MA's), (55, 43273),

Gene: Palestino_66 Start: 42357, Stop: 42160, Start Num: 29

Candidate Starts for Palestino_66:

(Start: 29 @42357 has 95 MA's), (45, 42300), (67, 42165),

Gene: PeaceMeal1_64 Start: 40823, Stop: 40584, Start Num: 22

Candidate Starts for PeaceMeal1_64:

(Start: 22 @40823 has 51 MA's), (41, 40763), (67, 40589),

Gene: Peaches_65 Start: 42356, Stop: 42159, Start Num: 29

Candidate Starts for Peaches_65:

(Start: 29 @42356 has 95 MA's), (45, 42299), (67, 42164),

Gene: Pembroke_74 Start: 42842, Stop: 42630, Start Num: 33

Candidate Starts for Pembroke_74:

(Start: 32 @42845 has 35 MA's), (Start: 33 @42842 has 31 MA's), (41, 42809), (59, 42680), (67, 42635),

Gene: Penny1_74 Start: 42845, Stop: 42633, Start Num: 33

Candidate Starts for Penny1_74:

(Start: 32 @42848 has 35 MA's), (Start: 33 @42845 has 31 MA's), (41, 42812), (59, 42683), (67, 42638),

Gene: PeterPeter_67 Start: 42354, Stop: 42157, Start Num: 29

Candidate Starts for PeterPeter_67:

(Start: 29 @42354 has 95 MA's), (45, 42297), (67, 42162),

Gene: Petersenfast_69 Start: 41946, Stop: 41683, Start Num: 27

Candidate Starts for Petersenfast_69:

(Start: 27 @41946 has 27 MA's), (40, 41892), (41, 41886), (53, 41814), (64, 41727),

Gene: Ph8s_76 Start: 42621, Stop: 42382, Start Num: 9

Candidate Starts for Ph8s_76:

(3, 42693), (Start: 9 @42621 has 4 MA's), (Start: 20 @42582 has 10 MA's), (40, 42528), (41, 42522), (46, 42504), (60, 42390),

Gene: Phacado_67 Start: 42356, Stop: 42159, Start Num: 29

Candidate Starts for Phacado_67:

(Start: 29 @42356 has 95 MA's), (45, 42299), (67, 42164),

Gene: Phaded_68 Start: 44715, Stop: 44476, Start Num: 26

Candidate Starts for Phaded_68:

(Start: 26 @44715 has 28 MA's), (41, 44652), (46, 44634), (59, 44529),

Gene: Phaeder_74 Start: 42798, Stop: 42580, Start Num: 21

Candidate Starts for Phaeder_74:

(Start: 21 @42798 has 29 MA's), (41, 42741), (46, 42723),

Gene: Pharaoh_68 Start: 42838, Stop: 42611, Start Num: 20

Candidate Starts for Pharaoh_68:

(Start: 20 @42838 has 10 MA's), (62, 42625), (63, 42622),

Gene: Phighter1804_67 Start: 42421, Stop: 42224, Start Num: 29

Candidate Starts for Phighter1804_67:

(Start: 29 @42421 has 95 MA's), (45, 42364), (67, 42229),

Gene: PhishRPhriends_70 Start: 41845, Stop: 41627, Start Num: 31

Candidate Starts for PhishRPhriends_70:

(8, 41914), (Start: 31 @41845 has 8 MA's), (41, 41806), (50, 41770), (59, 41677), (67, 41632),

Gene: Phoebe_75 Start: 42837, Stop: 42622, Start Num: 32

Candidate Starts for Phoebe_75:

(Start: 32 @42837 has 35 MA's), (Start: 33 @42834 has 31 MA's), (41, 42801), (59, 42672), (67, 42627),

Gene: Phonnegut_74 Start: 42868, Stop: 42650, Start Num: 21

Candidate Starts for Phonnegut_74:

(Start: 21 @42868 has 29 MA's), (41, 42811), (46, 42793),

Gene: Phoxy_74 Start: 42869, Stop: 42654, Start Num: 32

Candidate Starts for Phoxy_74:

(Start: 32 @42869 has 35 MA's), (Start: 33 @42866 has 31 MA's), (41, 42833), (59, 42704), (67, 42659),

Gene: Pioneer_74 Start: 42868, Stop: 42650, Start Num: 21

Candidate Starts for Pioneer_74:

(Start: 21 @42868 has 29 MA's), (41, 42811), (46, 42793),

Gene: Pipcraft_64 Start: 42357, Stop: 42160, Start Num: 29

Candidate Starts for Pipcraft_64:

(Start: 29 @42357 has 95 MA's), (45, 42300), (67, 42165),

Gene: Piro94_72 Start: 43466, Stop: 43239, Start Num: 22

Candidate Starts for Piro94_72:

(Start: 22 @43466 has 51 MA's), (40, 43412), (60, 43274), (66, 43244),

Gene: Pomar16_75 Start: 44044, Stop: 43802, Start Num: 26

Candidate Starts for Pomar16_75:

(Start: 26 @44044 has 28 MA's), (40, 43990), (46, 43966),

Gene: Poompha_63 Start: 40821, Stop: 40582, Start Num: 22

Candidate Starts for Poompha_63:

(Start: 22 @40821 has 51 MA's), (41, 40761), (67, 40587),

Gene: PotatoSplit_75 Start: 42848, Stop: 42633, Start Num: 32

Candidate Starts for PotatoSplit_75:

(Start: 32 @42848 has 35 MA's), (Start: 33 @42845 has 31 MA's), (41, 42812), (59, 42683), (67, 42638),

Gene: Power_72 Start: 43836, Stop: 43612, Start Num: 22

Candidate Starts for Power_72:

(Start: 22 @43836 has 51 MA's), (58, 43653), (59, 43650), (60, 43647),

Gene: Priya_72 Start: 42595, Stop: 42377, Start Num: 21

Candidate Starts for Priya_72:

(Start: 21 @42595 has 29 MA's), (41, 42538), (46, 42520),

Gene: Prudy_66 Start: 43483, Stop: 43259, Start Num: 26

Candidate Starts for Prudy_66:

(10, 43528), (Start: 26 @43483 has 28 MA's), (41, 43426), (59, 43297), (60, 43294), (65, 43267),

Gene: Pukovnik_69 Start: 44363, Stop: 44136, Start Num: 22

Candidate Starts for Pukovnik_69:

(Start: 22 @44363 has 51 MA's), (40, 44309), (60, 44171), (66, 44141),

Gene: Pumbaa_67 Start: 42302, Stop: 42105, Start Num: 29

Candidate Starts for Pumbaa_67:

(Start: 29 @42302 has 95 MA's), (45, 42245), (67, 42110),

Gene: PurpleHaze_73 Start: 42663, Stop: 42445, Start Num: 31

Candidate Starts for PurpleHaze_73:

(8, 42732), (Start: 31 @42663 has 8 MA's), (41, 42624), (50, 42588), (59, 42495), (67, 42450),

Gene: Qobbit_72 Start: 42557, Stop: 42339, Start Num: 21

Candidate Starts for Qobbit_72:

(Start: 21 @42557 has 29 MA's), (41, 42500), (46, 42482),

Gene: QueenB2_70 Start: 43119, Stop: 42895, Start Num: 22

Candidate Starts for QueenB2_70:

(Start: 22 @43119 has 51 MA's), (40, 43068), (58, 42936), (60, 42930), (65, 42903),

Gene: QueenBeesly_73 Start: 43793, Stop: 43569, Start Num: 22

Candidate Starts for QueenBeesly_73:

(Start: 22 @43793 has 51 MA's), (58, 43610), (59, 43607), (60, 43604),

Gene: Quokka_74 Start: 42863, Stop: 42621, Start Num: 26

Candidate Starts for Quokka_74:

(Start: 11 @42902 has 4 MA's), (Start: 26 @42863 has 28 MA's), (40, 42809), (41, 42803), (46, 42785), (59, 42674),

Gene: Rachaly_68 Start: 42923, Stop: 42705, Start Num: 24

Candidate Starts for Rachaly_68:

(Start: 24 @42923 has 4 MA's), (46, 42848), (59, 42743), (60, 42740),

Gene: Rahalelujah_74 Start: 42760, Stop: 42527, Start Num: 15

Candidate Starts for Rahalelujah_74:

(6, 42799), (Start: 15 @42760 has 1 MA's), (41, 42688), (46, 42670),

Gene: Rebeuca_67 Start: 42137, Stop: 41898, Start Num: 22

Candidate Starts for Rebeuca_67:

(Start: 22 @42137 has 51 MA's), (41, 42077), (59, 41948), (67, 41903),

Gene: RedRock_71 Start: 43761, Stop: 43537, Start Num: 26

Candidate Starts for RedRock_71:

(Start: 26 @43761 has 28 MA's), (Start: 27 @43758 has 27 MA's), (40, 43710), (59, 43575), (60, 43572),

Gene: Refuge_70 Start: 44062, Stop: 43841, Start Num: 21
Candidate Starts for Refuge_70:
(Start: 21 @44062 has 29 MA's), (34, 44032),

Gene: Relief_66 Start: 42354, Stop: 42157, Start Num: 29
Candidate Starts for Relief_66:
(Start: 29 @42354 has 95 MA's), (45, 42297), (67, 42162),

Gene: Retro23_73 Start: 43524, Stop: 43300, Start Num: 22
Candidate Starts for Retro23_73:
(Start: 22 @43524 has 51 MA's), (58, 43341), (59, 43338), (60, 43335),

Gene: Romney_66 Start: 42354, Stop: 42157, Start Num: 29
Candidate Starts for Romney_66:
(Start: 29 @42354 has 95 MA's), (45, 42297), (67, 42162),

Gene: Roosevelt_65 Start: 42359, Stop: 42162, Start Num: 29
Candidate Starts for Roosevelt_65:
(Start: 29 @42359 has 95 MA's), (45, 42302), (67, 42167),

Gene: Rosa24_64 Start: 42388, Stop: 42191, Start Num: 29
Candidate Starts for Rosa24_64:
(Start: 29 @42388 has 95 MA's), (45, 42331), (67, 42196),

Gene: Rowdy_68 Start: 41850, Stop: 41611, Start Num: 22
Candidate Starts for Rowdy_68:
(Start: 22 @41850 has 51 MA's), (41, 41790), (67, 41616),

Gene: Ruin_67 Start: 42350, Stop: 42153, Start Num: 29
Candidate Starts for Ruin_67:
(Start: 29 @42350 has 95 MA's), (45, 42293), (67, 42158),

Gene: Rummer_73 Start: 42872, Stop: 42657, Start Num: 32
Candidate Starts for Rummer_73:
(Start: 32 @42872 has 35 MA's), (Start: 33 @42869 has 31 MA's), (41, 42836), (59, 42707), (67, 42662),

Gene: RyeScarlet_75 Start: 42843, Stop: 42625, Start Num: 21
Candidate Starts for RyeScarlet_75:
(Start: 21 @42843 has 29 MA's), (41, 42786), (46, 42768),

Gene: Sabertooth_67 Start: 42359, Stop: 42162, Start Num: 29
Candidate Starts for Sabertooth_67:
(Start: 29 @42359 has 95 MA's), (45, 42302), (67, 42167),

Gene: Sabia_72 Start: 42852, Stop: 42637, Start Num: 32
Candidate Starts for Sabia_72:
(Start: 32 @42852 has 35 MA's), (Start: 33 @42849 has 31 MA's), (41, 42816), (59, 42687), (67, 42642),

Gene: Sabinator_72 Start: 42840, Stop: 42628, Start Num: 33
Candidate Starts for Sabinator_72:
(Start: 32 @42843 has 35 MA's), (Start: 33 @42840 has 31 MA's), (41, 42807), (59, 42678), (67, 42633),

Gene: Sachima_70 Start: 42824, Stop: 42606, Start Num: 21
Candidate Starts for Sachima_70:
(Start: 21 @42824 has 29 MA's), (41, 42767), (46, 42749),

Gene: Salz_70 Start: 41861, Stop: 41598, Start Num: 27
Candidate Starts for Salz_70:
(Start: 27 @41861 has 27 MA's), (40, 41807), (41, 41801), (53, 41729), (64, 41642),

Gene: Saskia_72 Start: 42409, Stop: 42146, Start Num: 27
Candidate Starts for Saskia_72:
(Start: 27 @42409 has 27 MA's), (41, 42349), (64, 42190),

Gene: Scamp_67 Start: 42359, Stop: 42162, Start Num: 29
Candidate Starts for Scamp_67:
(Start: 29 @42359 has 95 MA's), (45, 42302), (67, 42167),

Gene: Scherzo_73 Start: 43087, Stop: 42869, Start Num: 21
Candidate Starts for Scherzo_73:
(Start: 21 @43087 has 29 MA's), (41, 43030), (46, 43012),

Gene: SemperFi_73 Start: 43681, Stop: 43457, Start Num: 22
Candidate Starts for SemperFi_73:
(Start: 22 @43681 has 51 MA's), (58, 43498), (59, 43495), (60, 43492),

Gene: SenorClean_68 Start: 42357, Stop: 42160, Start Num: 29
Candidate Starts for SenorClean_68:
(Start: 29 @42357 has 95 MA's), (45, 42300), (67, 42165),

Gene: Severus_64 Start: 40821, Stop: 40582, Start Num: 22
Candidate Starts for Severus_64:
(Start: 22 @40821 has 51 MA's), (41, 40761), (67, 40587),

Gene: Shaka_65 Start: 42354, Stop: 42157, Start Num: 29
Candidate Starts for Shaka_65:
(Start: 29 @42354 has 95 MA's), (45, 42297), (67, 42162),

Gene: Sham4_71 Start: 41945, Stop: 41682, Start Num: 27
Candidate Starts for Sham4_71:
(Start: 27 @41945 has 27 MA's), (40, 41891), (41, 41885), (53, 41813), (64, 41726),

Gene: Shapes_68 Start: 41850, Stop: 41611, Start Num: 22
Candidate Starts for Shapes_68:
(Start: 22 @41850 has 51 MA's), (41, 41790), (67, 41616),

Gene: SheaKeira_68 Start: 41846, Stop: 41625, Start Num: 22
Candidate Starts for SheaKeira_68:
(Start: 22 @41846 has 51 MA's), (40, 41792), (60, 41660),

Gene: Shygu2_66 Start: 42684, Stop: 42460, Start Num: 29
Candidate Starts for Shygu2_66:
(Start: 29 @42684 has 95 MA's), (45, 42627), (47, 42621), (67, 42465),

Gene: Skipitt_66 Start: 42351, Stop: 42154, Start Num: 29
Candidate Starts for Skipitt_66:
(Start: 29 @42351 has 95 MA's), (45, 42294), (67, 42159),

Gene: Sknot_73 Start: 43498, Stop: 43271, Start Num: 22
Candidate Starts for Sknot_73:
(Start: 22 @43498 has 51 MA's), (40, 43444), (60, 43306),

Gene: Smeagan_75 Start: 43992, Stop: 43768, Start Num: 22
Candidate Starts for Smeagan_75:
(Start: 22 @43992 has 51 MA's), (40, 43941), (58, 43809), (59, 43806), (60, 43803),

Gene: SnapTap_72 Start: 43492, Stop: 43268, Start Num: 22
Candidate Starts for SnapTap_72:
(Start: 22 @43492 has 51 MA's), (58, 43309), (59, 43306), (60, 43303),

Gene: Snape_75 Start: 43054, Stop: 42827, Start Num: 27
Candidate Starts for Snape_75:
(Start: 27 @43054 has 27 MA's), (40, 43000), (53, 42922),

Gene: Snickers_74 Start: 42814, Stop: 42602, Start Num: 33
Candidate Starts for Snickers_74:
(Start: 32 @42817 has 35 MA's), (Start: 33 @42814 has 31 MA's), (41, 42781), (59, 42652), (67, 42607),

Gene: SoYo_71 Start: 42753, Stop: 42541, Start Num: 33
Candidate Starts for SoYo_71:
(Start: 32 @42756 has 35 MA's), (Start: 33 @42753 has 31 MA's), (41, 42720), (59, 42591), (67, 42546),

Gene: SoilDragon_73 Start: 42289, Stop: 42077, Start Num: 33
Candidate Starts for SoilDragon_73:
(Start: 32 @42292 has 35 MA's), (Start: 33 @42289 has 31 MA's), (41, 42256), (59, 42127), (67, 42082),

Gene: SororFago_74 Start: 44027, Stop: 43806, Start Num: 20
Candidate Starts for SororFago_74:
(Start: 20 @44027 has 10 MA's), (40, 43973), (41, 43967), (46, 43949), (60, 43841),

Gene: Soshari_76 Start: 42868, Stop: 42653, Start Num: 32
Candidate Starts for Soshari_76:
(Start: 32 @42868 has 35 MA's), (Start: 33 @42865 has 31 MA's), (41, 42832), (59, 42703), (67, 42658),

Gene: Sparxx_68 Start: 42352, Stop: 42155, Start Num: 29
Candidate Starts for Sparxx_68:
(Start: 29 @42352 has 95 MA's), (45, 42295), (67, 42160),

Gene: Spike509_74 Start: 42869, Stop: 42654, Start Num: 32

Candidate Starts for Spike509_74:

(Start: 32 @42869 has 35 MA's), (Start: 33 @42866 has 31 MA's), (41, 42833), (59, 42704), (67, 42659),

Gene: Spino_66 Start: 42360, Stop: 42163, Start Num: 29

Candidate Starts for Spino_66:

(Start: 29 @42360 has 95 MA's), (45, 42303), (67, 42168),

Gene: Spouty_72 Start: 42594, Stop: 42376, Start Num: 21

Candidate Starts for Spouty_72:

(Start: 21 @42594 has 29 MA's), (41, 42537), (46, 42519),

Gene: Stagni_71 Start: 42844, Stop: 42632, Start Num: 33

Candidate Starts for Stagni_71:

(Start: 32 @42847 has 35 MA's), (Start: 33 @42844 has 31 MA's), (41, 42811), (59, 42682), (67, 42637),

Gene: StarStuff_75 Start: 44006, Stop: 43764, Start Num: 26

Candidate Starts for StarStuff_75:

(Start: 26 @44006 has 28 MA's), (40, 43952), (46, 43928),

Gene: Stasia_66 Start: 42567, Stop: 42343, Start Num: 29

Candidate Starts for Stasia_66:

(Start: 29 @42567 has 95 MA's), (45, 42510), (47, 42504), (59, 42393), (67, 42348),

Gene: SteMason_63 Start: 42354, Stop: 42157, Start Num: 29

Candidate Starts for SteMason_63:

(Start: 29 @42354 has 95 MA's), (45, 42297), (67, 42162),

Gene: Steamy_67 Start: 42288, Stop: 42067, Start Num: 21

Candidate Starts for Steamy_67:

(Start: 21 @42288 has 29 MA's), (38, 42258), (58, 42108),

Gene: Sultana_67 Start: 42357, Stop: 42160, Start Num: 29

Candidate Starts for Sultana_67:

(Start: 29 @42357 has 95 MA's), (45, 42300), (67, 42165),

Gene: Sunhee_74 Start: 42052, Stop: 41858, Start Num: 33

Candidate Starts for Sunhee_74:

(Start: 21 @42079 has 29 MA's), (Start: 33 @42052 has 31 MA's), (40, 42025), (41, 42019), (46, 42001), (60, 41893),

Gene: Superchunk_74 Start: 42168, Stop: 41929, Start Num: 9

Candidate Starts for Superchunk_74:

(3, 42240), (4, 42222), (Start: 9 @42168 has 4 MA's), (Start: 20 @42129 has 10 MA's), (40, 42075), (46, 42051), (60, 41937),

Gene: SweetiePie_72 Start: 43624, Stop: 43400, Start Num: 22

Candidate Starts for SweetiePie_72:

(Start: 22 @43624 has 51 MA's), (58, 43441), (59, 43438), (60, 43435),

Gene: SwirlSquare_78 Start: 42851, Stop: 42651, Start Num: 20

Candidate Starts for SwirlSquare_78:

(Start: 20 @42851 has 10 MA's), (40, 42797), (41, 42791), (46, 42773),

Gene: Taquarus_66 Start: 42360, Stop: 42163, Start Num: 29

Candidate Starts for Taquarus_66:

(Start: 29 @42360 has 95 MA's), (45, 42303), (67, 42168),

Gene: TarsusIV_70 Start: 43465, Stop: 43244, Start Num: 21

Candidate Starts for TarsusIV_70:

(Start: 21 @43465 has 29 MA's), (40, 43411), (41, 43405), (46, 43387), (60, 43279),

Gene: Taurus_75 Start: 42844, Stop: 42629, Start Num: 32

Candidate Starts for Taurus_75:

(Start: 32 @42844 has 35 MA's), (Start: 33 @42841 has 31 MA's), (41, 42808), (59, 42679), (67, 42634),

Gene: Terrific_73 Start: 43472, Stop: 43245, Start Num: 22

Candidate Starts for Terrific_73:

(Start: 22 @43472 has 51 MA's), (40, 43418), (60, 43280),

Gene: Thanksgivukkah_66 Start: 42355, Stop: 42158, Start Num: 29

Candidate Starts for Thanksgivukkah_66:

(Start: 29 @42355 has 95 MA's), (45, 42298), (54, 42244), (67, 42163),

Gene: Tiffany_73 Start: 42729, Stop: 42514, Start Num: 32

Candidate Starts for Tiffany_73:

(Start: 32 @42729 has 35 MA's), (Start: 33 @42726 has 31 MA's), (41, 42693), (59, 42564), (67, 42519),

Gene: Timothy_75 Start: 43031, Stop: 42804, Start Num: 27

Candidate Starts for Timothy_75:

(Start: 27 @43031 has 27 MA's), (40, 42977), (41, 42971), (53, 42899),

Gene: TinaFeyge_65 Start: 42352, Stop: 42155, Start Num: 29

Candidate Starts for TinaFeyge_65:

(Start: 29 @42352 has 95 MA's), (45, 42295), (67, 42160),

Gene: TinyPebbles_73 Start: 42874, Stop: 42659, Start Num: 32

Candidate Starts for TinyPebbles_73:

(Start: 32 @42874 has 35 MA's), (Start: 33 @42871 has 31 MA's), (41, 42838), (67, 42664),

Gene: TinyTimmy_73 Start: 42760, Stop: 42533, Start Num: 27

Candidate Starts for TinyTimmy_73:

(Start: 27 @42760 has 27 MA's), (40, 42706), (41, 42700), (53, 42628),

Gene: Tinybot_66 Start: 42387, Stop: 42190, Start Num: 29

Candidate Starts for Tinybot_66:

(Start: 29 @42387 has 95 MA's), (45, 42330), (67, 42195),

Gene: TipsytheTRex_72 Start: 43101, Stop: 42820, Start Num: 11

Candidate Starts for TipsytheTRex_72:

(Start: 11 @43101 has 4 MA's), (40, 43008), (41, 43002), (46, 42984), (59, 42873),

Gene: TiroTheta9_66 Start: 42351, Stop: 42154, Start Num: 29

Candidate Starts for TiroTheta9_66:
(Start: 29 @42351 has 95 MA's), (45, 42294), (67, 42159),

Gene: Tomathan_75 Start: 44117, Stop: 43875, Start Num: 26
Candidate Starts for Tomathan_75:
(Start: 26 @44117 has 28 MA's), (40, 44063), (46, 44039),

Gene: Topanga_63 Start: 41611, Stop: 41378, Start Num: 27
Candidate Starts for Topanga_63:
(Start: 27 @41611 has 27 MA's), (40, 41563), (41, 41557), (67, 41383),

Gene: Travvers_74 Start: 44003, Stop: 43761, Start Num: 26
Candidate Starts for Travvers_74:
(Start: 26 @44003 has 28 MA's), (40, 43949), (46, 43925),

Gene: Trike_63 Start: 40825, Stop: 40589, Start Num: 22
Candidate Starts for Trike_63:
(Start: 22 @40825 has 51 MA's), (41, 40768), (67, 40594),

Gene: Tristan_69 Start: 44578, Stop: 44339, Start Num: 26
Candidate Starts for Tristan_69:
(Start: 26 @44578 has 28 MA's), (41, 44515), (46, 44497), (59, 44392),

Gene: Trixie_72 Start: 44253, Stop: 44035, Start Num: 25
Candidate Starts for Trixie_72:
(Start: 25 @44253 has 8 MA's), (40, 44202), (46, 44178), (56, 44091), (60, 44070), (65, 44043),

Gene: Trooper_72 Start: 43427, Stop: 43203, Start Num: 26
Candidate Starts for Trooper_72:
(Start: 26 @43427 has 28 MA's), (40, 43376), (41, 43370), (59, 43241), (60, 43238),

Gene: Tubs_74 Start: 42798, Stop: 42580, Start Num: 21
Candidate Starts for Tubs_74:
(Start: 21 @42798 has 29 MA's), (41, 42741), (46, 42723),

Gene: Turbido_73 Start: 43711, Stop: 43487, Start Num: 22
Candidate Starts for Turbido_73:
(Start: 22 @43711 has 51 MA's), (40, 43660), (58, 43528), (59, 43525), (60, 43522),

Gene: Twister_65 Start: 41732, Stop: 41499, Start Num: 27
Candidate Starts for Twister_65:
(Start: 27 @41732 has 27 MA's), (40, 41684), (41, 41678), (67, 41504),

Gene: TygerBlood_67 Start: 42357, Stop: 42160, Start Num: 29
Candidate Starts for TygerBlood_67:
(Start: 29 @42357 has 95 MA's), (45, 42300), (67, 42165),

Gene: Ugenie5_69 Start: 43086, Stop: 42868, Start Num: 21
Candidate Starts for Ugenie5_69:
(Start: 21 @43086 has 29 MA's), (41, 43029), (46, 43011),

Gene: Ulysses_66 Start: 42043, Stop: 41846, Start Num: 29
Candidate Starts for Ulysses_66:

(Start: 29 @42043 has 95 MA's), (45, 41986), (67, 41851),

Gene: Updawg_73 Start: 43362, Stop: 43135, Start Num: 22

Candidate Starts for Updawg_73:

(Start: 22 @43362 has 51 MA's), (40, 43308), (60, 43170),

Gene: VC3_74 Start: 43459, Stop: 43217, Start Num: 26

Candidate Starts for VC3_74:

(Start: 26 @43459 has 28 MA's), (40, 43405), (46, 43381), (58, 43273),

Gene: Vix_70 Start: 42927, Stop: 42712, Start Num: 32

Candidate Starts for Vix_70:

(Start: 32 @42927 has 35 MA's), (Start: 33 @42924 has 31 MA's), (41, 42891), (59, 42762), (67, 42717),

Gene: WalterMcMickey_65 Start: 41732, Stop: 41499, Start Num: 27

Candidate Starts for WalterMcMickey_65:

(Start: 27 @41732 has 27 MA's), (40, 41684), (41, 41678), (67, 41504),

Gene: Wander_67 Start: 42354, Stop: 42157, Start Num: 29

Candidate Starts for Wander_67:

(Start: 29 @42354 has 95 MA's), (45, 42297), (67, 42162),

Gene: Watson_73 Start: 42833, Stop: 42621, Start Num: 33

Candidate Starts for Watson_73:

(Start: 32 @42836 has 35 MA's), (Start: 33 @42833 has 31 MA's), (41, 42800), (59, 42671), (67, 42626),

Gene: WeiHuaDA_73 Start: 44299, Stop: 44075, Start Num: 26

Candidate Starts for WeiHuaDA_73:

(Start: 26 @44299 has 28 MA's), (40, 44248), (41, 44242), (58, 44116), (59, 44113), (60, 44110), (65, 44083),

Gene: Whabigail7_73 Start: 43711, Stop: 43487, Start Num: 22

Candidate Starts for Whabigail7_73:

(Start: 22 @43711 has 51 MA's), (40, 43660), (58, 43528), (59, 43525), (60, 43522),

Gene: WideWale_73 Start: 43362, Stop: 43135, Start Num: 22

Candidate Starts for WideWale_73:

(Start: 22 @43362 has 51 MA's), (40, 43308), (60, 43170),

Gene: Wilbur_67 Start: 42354, Stop: 42157, Start Num: 29

Candidate Starts for Wilbur_67:

(Start: 29 @42354 has 95 MA's), (45, 42297), (67, 42162),

Gene: Wolpertinger_73 Start: 43063, Stop: 42836, Start Num: 27

Candidate Starts for Wolpertinger_73:

(Start: 27 @43063 has 27 MA's), (40, 43009), (41, 43003), (53, 42931),

Gene: Wooldri_76 Start: 42756, Stop: 42541, Start Num: 32

Candidate Starts for Wooldri_76:

(Start: 32 @42756 has 35 MA's), (Start: 33 @42753 has 31 MA's), (41, 42720), (59, 42591), (67, 42546),

Gene: WorldCup_72 Start: 42754, Stop: 42521, Start Num: 15

Candidate Starts for WorldCup_72:

(6, 42793), (Start: 15 @42754 has 1 MA's), (41, 42682), (46, 42664),

Gene: XianYue_68 Start: 43295, Stop: 43074, Start Num: 23

Candidate Starts for XianYue_68:

(Start: 23 @43295 has 5 MA's), (46, 43217), (59, 43112), (66, 43079),

Gene: Yecey3_76 Start: 42829, Stop: 42608, Start Num: 25

Candidate Starts for Yecey3_76:

(Start: 25 @42829 has 8 MA's), (41, 42769), (46, 42751), (56, 42664),

Gene: Zetzy_71 Start: 42407, Stop: 42192, Start Num: 32

Candidate Starts for Zetzy_71:

(Start: 32 @42407 has 35 MA's), (41, 42371), (49, 42338), (53, 42302), (59, 42242), (67, 42197),

Gene: Zimmer_71 Start: 43934, Stop: 43707, Start Num: 21

Candidate Starts for Zimmer_71:

(Start: 21 @43934 has 29 MA's), (40, 43880), (41, 43874), (46, 43856), (58, 43748), (60, 43742),