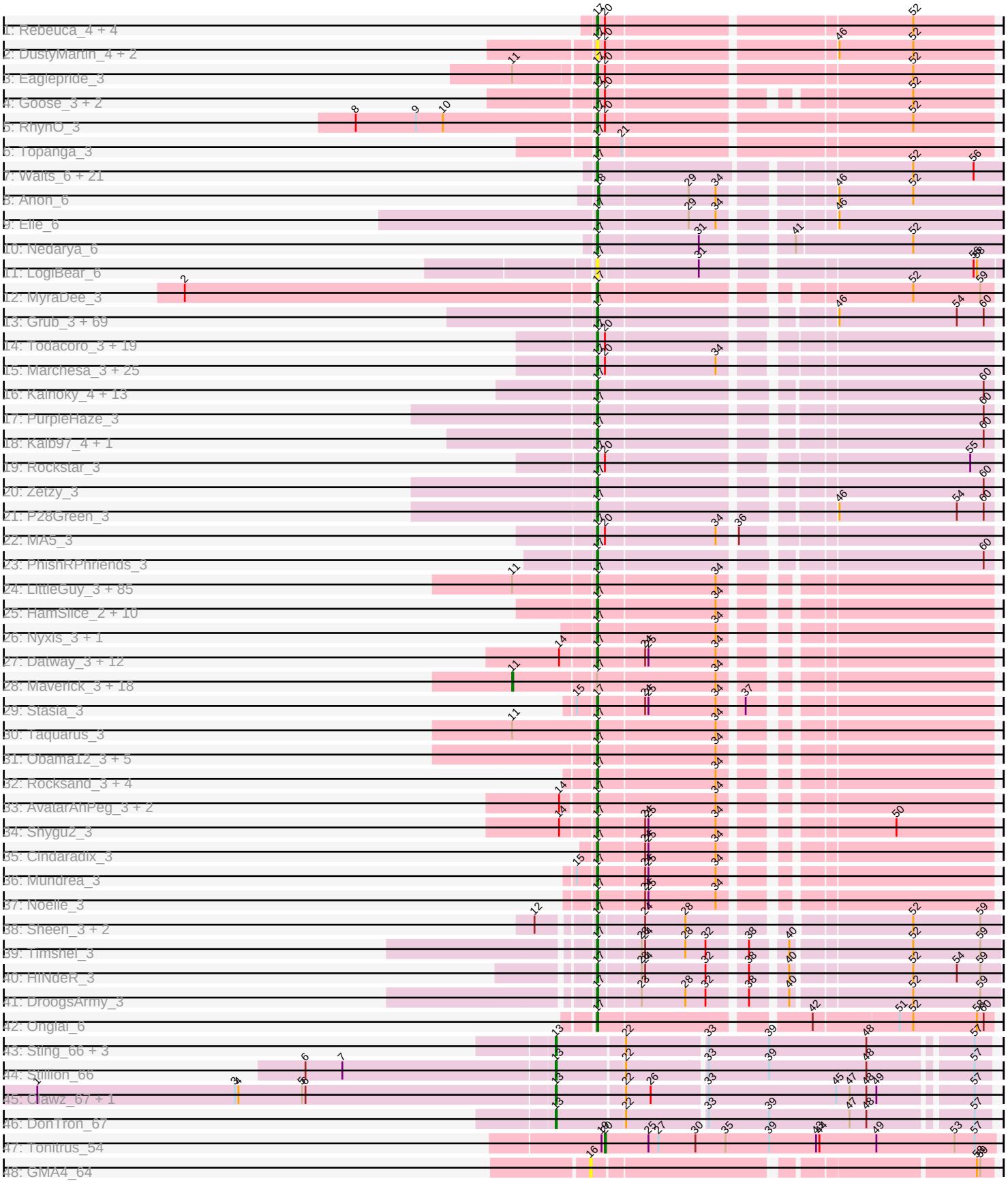
Pham 347139


1: Rebeuca_4 + 4
2: DustyMartin_4 + 2
3: Eaglepride_3
4: Goose_3 + 2
5: RhynO_3
6: Topanga_3
7: Waits_6 + 21
8: Anon_6
9: Elle_6
10: Nedarya_6
11: LogiBear_6
12: MyraDee_3
13: Grub_3 + 69
14: Todacoro_3 + 19
15: Marchesa_3 + 25
16: Kalnoky_4 + 13
17: PurpleHaze_3
18: Kalb97_4 + 1
19: Rockstar_3
20: Zetzy_3
21: P28Green_3
22: MA5_3
23: PhishRPhriends_3
24: LittleGuy_3 + 85
25: HamSlice_2 + 10
26: Nyxis_3 + 1
27: Datway_3 + 12
28: Maverick_3 + 18
29: Stasia_3
30: Taquarus_3
31: Obama12_3 + 5
32: Rocksand_3 + 4
33: AvatarAnPeg_3 + 2
34: Shygu2_3
35: Cindaradix_3
36: Mundrea_3
37: Noelle_3
38: Sheen_3 + 2
39: Timshel_3
40: HiNdeR_3
41: DroogsArmy_3
42: Onglaf_6
43: Sting_66 + 3
44: Stillion_66
45: Clawz_67 + 1
46: DonTron_67
47: Tonitrus_54
48: GMA4_64

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 347139 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347139 has 347 members, 29 are drafts.

Phages represented in each track:
• Track 1 : Rebeuca_4, Twister_3, WalterMcMickey_3, Edison31_3, Kristoff_4
• Track 2 : DustyMartin_4, Rowdy_4, Shapes_4
• Track 3 : Eaglepride_3
• Track 4 : Goose_3, Chupacabra_3, OKCentral2016_3
• Track 5 : RhynO_3
• Track 6 : Topanga_3
• Track 7 : Waits_6, Epsocamisio_6, Nebulosus_6, Ravana_6, Switzerland_6, LastResort_6, Strosahl_6, Rosalind_6, MinecraftSteve_7, DekHockey33_6, ShayRa_7, JSwag_6, KatherineG_6, Boohoo_6, Remus_6, Warrior24_6, ReMo_6, Looper_6, Soups_6, Oofda_6, Battleship_7, Anaysia_6
• Track 8 : Anon_6
• Track 9 : Elle_6
• Track 10 : Nedarya_6
• Track 11 : LogiBear_6
• Track 12 : MyraDee_3
• Track 13 : Grub_3, Grif_3, Phoxy_3, Snickers_3, Dieselweasel_3, Louie6_3, Tiffany_3, Taurus_3, TinyPebbles_3, AugsMagnumOpus_5, Methuselah_3, Soshari_5, JenCasNa_3, SoilDragon_3, Cullens_3, Fernando_3, PotatoSplit_4, MoneyMay_3, Vix_3, Sabia_3, Microwolf_3, Aglet_3, Bigflo_3, LBerry_3, Phoebe_3, GingkoMaracino_3, Grum1_3, Stagni_3, MadMarie_3, StepMih_3, Colbster_3, Mainiac_3, EpicPhail_3, Marie_3, Ollie_3, Daishi_3, BreSam8_3, LarryKay_3, Beauxregard13_3, Penny1_3, DaHudson_3, Sabinator_3, MuchMore_5, PGHhamlin_5, MarQuardt_3, GtownJaz_3, Jobu08_3, Misomonster_5, SoYo_3, Watson_3, Malinsilva_5, JHC117_3, KADY_4, Montavir_2, Croquant_4, Bxz2_3, Lowa_3, BuzzBuzz_2, Lilith_3, Spike509_3, LugYA_5, Pembroke_3, Anubis_5, AgronaGT15_3, Farber_3, Hercules11_3, Gwennie_3, Rummer_3, Wooldri_5, HashRod_4
• Track 14 : Todacoro_3, Popcicle_3, Veracruz_2, Texage_2, MK4_3, QuinnKiro_2, Pocahontas_3, JF2_3, ResDef_3, Hookmount_3, Panamaxus_3, Noella_3, Caviar_3, EtoileNova_2, B1_02, Norbert_2, Lambert1_3, JF4_3, Isca_3, Margo_3
• Track 15 : Marchesa_3, BabyRay_3, Chiqui_2, Goose1D_3, DropBear_3, Clammy_3, Puppy_3, Heathen_3, Kachowdy_3, Bugatti_3, TNguyen7_3, Goose1X_3, HelDan_3, Pistachio_3, Scout_3, Shep_3, Fred313_3, Idleandcovert_2, Cat_2, Zarafa_3, BlueBird_3, BabyJohn_2, SaturnRing_2, Phantastic_3, Giroux_3, Roimos_3
• Track 16 : Kalnoky_4, Manu_4, Pawn_3, Reba_4, Gemma_3, JeppNRM_4, Groupthink_4, ClownCar_3, HaveUMetTed_4, OlanP_3, Marius_4, Phranny_4,

Calvinny_3, Heliosoles_3
• Track 17 : PurpleHaze_3
• Track 18 : Kalb97_4, ACFishhook_3
• Track 19 : Rockstar_3
• Track 20 : Zetzy_3
• Track 21 : P28Green_3
• Track 22 : MA5_3
• Track 23 : PhishRPhriends_3
• Track 24 : LittleGuy_3, Huxley_3, Lorenzo_3, TroyPia_3, Sultana_3, Ohfah_3, Sabertooth_3, SteMason_3, Clarenza_3, Cintron_3, Ruin_3, Holli_3, Florean_3, Connomayer_3, Kratark_3, Pumbaa_3, Mazhar510_3, Phacado_3, Eros_3, Albee_3, LittleB_3, Phelipe_3, Avle17_3, TiroTheta9_3, Wizard007_3, Koreni_3, LeoAvram_3, Ulysses_3, MeeZee_3, OKaNui_3, Millski_3, Commander_3, Eagle_2, KFPoly_3, Buckaroo_2, TygerBlood_3, Gadost_3, NorthStar_3, Baby16_3, Mayonnaise_3, Iceman_3, Polymorphads_3, Palestino_3, Phontbonne_3, YoSam321_3, Citius_3, Rosa24_2, Sparxx_3, KekoraPapaka_2, Arturo_2, DirtyDunning_3, Cocoaberry_3, TinaFeyge_3, Bartimeaus_3, LappelDuVide_3, Spino_3, Roosevelt_3, Funston_3, RockieBear_3, LochMonster_3, NotAPhaseMom_3, Bruiser_3, Blackmoor_3, SenorClean_3, Kremtemulon_3, Junimo_2, Kyee_3, Scamp_3, PeterPeter_3, Lunsford_3, Houdini22_3, BubbleTrouble_3, Broseidon_3, Tinybot_2, Nebs_3, Skipitt_3, Eris_3, Chaph_3, Druantia_3, Skadoosh_3, Thanksgivukkah_3, JoongJeon_3, Happiness_3, Deano_3, Wander_3, Abdiel_3
• Track 25 : HamSlice_2, Kampy_3, CentreCat_3, Maxo_3, Phighter1804_3, Annyong_3, Relief_3, Kingmustik0402_3, Koan_3, Camperdownii_3, Alberto7_3
• Track 26 : Nyxis_3, Eapen_3
• Track 27 : Datway_3, Wile_3, Badger_3, PetiteSangsue_3, Cici_3, Katalie136_3, Perplexer_3, Xena_3, Morpher26_3, Achebe_3, Backyardigan_3, AbbysRanger_3, Bumblebee11_3
• Track 28 : Maverick_3, Bombshell_3, BellusTerra_3, Peaches_3, ICleared_3, Iracema64_3, JetBlade_3, Pipcraft_3, Medusa_3, Melvin_3, Caelakin_3, Dhanush_3, Nemo27_3, Lemur_3, Shaka_3, Flux_3, Eurydice_3, Morrow_3, Burger_2
• Track 29 : Stasia_3
• Track 30 : Taquarus_3
• Track 31 : Obama12_3, SheldonCooper_3, LHTSCC_3, ChampagnePapi_3, BangNhom_2, Cerulean_3
• Track 32 : Rocksand_3, Wilbur_3, Northrop_3, Jaykayelowell_3, Romney_3
• Track 33 : AvatarAhPeg_3, Stink_3, Miramae_3
• Track 34 : Shygu2_3
• Track 35 : Cindaradix_3
• Track 36 : Mundrea_3
• Track 37 : Noelle_3
• Track 38 : Sheen_3, FlyCatcher_3, Toro_3
• Track 39 : Timshel_3
• Track 40 : HINdeR_3
• Track 41 : DroogsArmy_3
• Track 42 : Onglai_6
• Track 43 : Sting_66, KingstonB_65, Soos_63, Grumio_67
• Track 44 : Stillion_66
• Track 45 : Clawz_67, Makar_68
• Track 46 : DonTron_67
• Track 47 : Tonitrus_54
• Track 48 : GMA4_64

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

The start number called the most often in the published annotations is 17, it was called in 291 of the 318 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ACFishhook_3, AbbysRanger_3, Abdiel_3, Achebe_3, Aglet_3, AgronaGT15_3, Albee_3, Alberto7_3, Anaysia_6, Annyong_3, Anubis_5, Arturo_2, AugsMagnumOpus_5, AvatarAhPeg_3, Avle17_3, B1_02, Baby16_3, BabyJohn_2, BabyRay_3, Backyardigan_3, Badger_3, BangNhom_2, Bartimeaus_3, Battleship_7, Beauxregard13_3, Bigflo_3, Blackmoor_3, BlueBird_3, Boohoo_6, BreSam8_3, Broseidon_3, Bruiser_3, BubbleTrouble_3, Buckaroo_2, Bugatti_3, Bumblebee11_3, BuzzBuzz_2, Bxz2_3, Calvinny_3, Camperdownii_3, Cat_2, Caviar_3, CentreCat_3, Cerulean_3, ChampagnePapi_3, Chaph_3, Chiqui_2, Chupacabra_3, Cici_3, Cindaradix_3, Cintron_3, Citius_3, Clammy_3, Clarenza_3, ClownCar_3, Cocoaberry_3, Colbster_3, Commander_3, Connomayer_3, Croquant_4, Cullens_3, DaHudson_3, Daishi_3, Datway_3, Deano_3, DekHockey33_6, Dieselweasel_3, DirtyDunning_3, DroogsArmy_3, DropBear_3, Druantia_3, DustyMartin_4, Eagle_2, Eaglepride_3, Eapen_3, Edison31_3, Elle_6, EpicPhail_3, Epsocamisio_6, Eris_3, Eros_3, EtoileNova_2, Farber_3, Fernando_3, Florean_3, FlyCatcher_3, Fred313_3, Funston_3, Gadost_3, Gemma_3, GingkoMaracino_3, Giroux_3, Goose1D_3, Goose1X_3, Goose_3, Grif_3, Groupthink_4, Grub_3, Grum1_3, GtownJaz_3, Gwennie_3, HINdeR_3, HamSlice_2, Happiness_3, HashRod_4, HaveUMetTed_4, Heathen_3, HelDan_3, Heliosoles_3, Hercules11_3, Holli_3, Hookmount_3, Houdini22_3, Huxley_3, Iceman_3, Idleandcovert_2, Isca_3, JF2_3, JF4_3, JHC117_3, JSwag_6, Jaykayelowell_3, JenCasNa_3, JeppNRM_4, Jobu08_3, JoongJeon_3, Junimo_2, KADY_4, KFPoly_3, Kachowdy_3, Kalb97_4, Kalnoky_4, Kampy_3, Katalie136_3, KatherineG_6, KekoraPapaka_2, Kingmustik0402_3, Koan_3, Koreni_3, Kratark_3, Kremtemulon_3, Kristoff_4, Kyee_3, LBerry_3, LHTSCC_3, Lambert1_3, LappelDuVide_3, LarryKay_3, LastResort_6, LeoAvram_3, Lilith_3, LittleB_3, LittleGuy_3, LochMonster_3, LogiBear_6, Looper_6, Lorenzo_3, Louie6_3, Lowa_3, LugYA_5, Lunsford_3, MA5_3, MK4_3, MadMarie_3, Mainiac_3, Malinsilva_5, Manu_4, MarQuardt_3, Marchesa_3, Margo_3, Marie_3, Marius_4, Maxo_3, Mayonnaise_3, Mazhar510_3, MeeZee_3, Methuselah_3, Microwolf_3, Millski_3, MinecraftSteve_7, Miramae_3, Misomonster_5, MoneyMay_3, Montavir_2, Morpher26_3, MuchMore_5, Mundrea_3, MyraDee_3, Nebs_3, Nebulosus_6, Nedarya_6, Noella_3, Noelle_3, Norbert_2, NorthStar_3, Northrop_3, NotAPhaseMom_3, Nyxis_3, OKCentral2016_3, OKaNui_3, Obama12_3, Ohfah_3, OlanP_3, Ollie_3, Onglai_6, Oofda_6, P28Green_3, PGHhamlin_5, Palestino_3, Panamaxus_3, Pawn_3, Pembroke_3, Penny1_3, Perplexer_3, PeterPeter_3, PetiteSangsue_3, Phacado_3, Phantastic_3, Phelipe_3, Phighter1804_3, PhishRPhriends_3, Phoebe_3, Phontbonne_3, Phoxy_3, Phranny_4, Pistachio_3, Pocahontas_3, Polymorphads_3, Popcicle_3, PotatoSplit_4, Pumbaa_3, Puppy_3, PurpleHaze_3, QuinnKiro_2, Ravana_6, ReMo_6, Reba_4, Rebeuca_4, Relief_3, Remus_6, ResDef_3, RhynO_3, RockieBear_3, Rocksand_3, Rockstar_3, Roimos_3, Romney_3, Roosevelt_3, Rosa24_2, Rosalind_6, Rowdy_4, Ruin_3, Rummer_3, Sabertooth_3, Sabia_3, Sabinator_3, SaturnRing_2, Scamp_3, Scout_3, SenorClean_3, Shapes_4, ShayRa_7, Sheen_3, SheldonCooper_3, Shep_3, Shygu2_3, Skadoosh_3, Skipitt_3, Snickers_3, SoYo_3, SoilDragon_3, Soshari_5, Soups_6, Sparxx_3, Spike509_3, Spino_3, Stagni_3, Stasia_3, SteMason_3,

StepMih_3, Stink_3, Strosahl_6, Sultana_3, Switzerland_6, TNguyen7_3, Taquarus_3, Taurus_3, Texage_2, Thanksgivukkah_3, Tiffany_3, Timshel_3, TinaFeyge_3, TinyPebbles_3, Tinybot_2, TiroTheta9_3, Todacoro_3, Topanga_3, Toro_3, TroyPia_3, Twister_3, TygerBlood_3, Ulysses_3, Veracruz_2, Vix_3, Waits_6, WalterMcMickey_3, Wander_3, Warrior24_6, Watson_3, Wilbur_3, Wile_3, Wizard007_3, Wooldri_5, Xena_3, YoSam321_3, Zarafa_3, Zetzy_3,

Genes that have the "Most Annotated" start but do not call it:
• BellusTerra_3, Bombshell_3, Burger_2, Caelakin_3, Dhanush_3, Eurydice_3, Flux_3, ICleared_3, Iracema64_3, JetBlade_3, Lemur_3, Maverick_3, Medusa_3, Melvin_3, Morrow_3, Nemo27_3, Peaches_3, Pipcraft_3, Shaka_3,

Genes that do not have the "Most Annotated" start:
• Anon_6, Clawz_67, DonTron_67, GMA4_64, Grumio_67, KingstonB_65, Makar_68, Soos_63, Stillion_66, Sting_66, Tonitrus_54,

Summary by start number:

Start 11:
• Found in 107 of 347 (30.8%) of genes in pham
• Manual Annotations of this start: 19 of 318
• Called 17.8% of time when present
• Phage (with cluster) where this start called: BellusTerra_3 (A4), Bombshell_3 (A4), Burger_2 (A4), Caelakin_3 (A4), Dhanush_3 (A4), Eurydice_3 (A4), Flux_3 (A4), ICleared_3 (A4), Iracema64_3 (A4), JetBlade_3 (A4), Lemur_3 (A4), Maverick_3 (A4), Medusa_3 (A4), Melvin_3 (A4), Morrow_3 (A4), Nemo27_3 (A4), Peaches_3 (A4), Pipcraft_3 (A4), Shaka_3 (A4),

Start 13:
• Found in 8 of 347 (2.3%) of genes in pham
• Manual Annotations of this start: 6 of 318
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Clawz_67 (CP), DonTron_67 (CP), Grumio_67 (CP), KingstonB_65 (CP), Makar_68 (CP), Soos_63 (CP), Stillion_66 (CP), Sting_66 (CP),

Start 16:
• Found in 1 of 347 (0.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GMA4_64 (singleton),

Start 17:
• Found in 336 of 347 (96.8%) of genes in pham
• Manual Annotations of this start: 291 of 318
• Called 94.3% of time when present
• Phage (with cluster) where this start called: ACFishhook_3 (A3), AbbysRanger_3 (A4), Abdiel_3 (A4), Achebe_3 (A4), Aglet_3 (A3), AgronaGT15_3 (A3), Albee_3 (A4), Alberto7_3 (A4), Anaysia_6 (A15), Annyong_3 (A4), Anubis_5 (A3), Arturo_2 (A4), AugsMagnumOpus_5 (A3), AvatarAhPeg_3 (A4), Avle17_3 (A4), B1_02 (A3), Baby16_3 (A4), BabyJohn_2 (A3), BabyRay_3 (A3), Backyardigan_3 (A4), Badger_3 (A4), BangNhom_2 (A4), Bartimeaus_3 (A4), Battleship_7 (A15), Beauxregard13_3 (A3), Bigflo_3 (A3), Blackmoor_3 (A4), BlueBird_3 (A3), Boohoo_6 (A15), BreSam8_3

(A3), Broseidon_3 (A4), Bruiser_3 (A4), BubbleTrouble_3 (A4), Buckaroo_2 (A4), Bugatti_3 (A3), Bumblebee11_3 (A4), BuzzBuzz_2 (A3), Bxz2_3 (A3), Calvinny_3 (A3), Camperdownii_3 (A4), Cat_2 (A3), Caviar_3 (A3), CentreCat_3 (A4), Cerulean_3 (A4), ChampagnePapi_3 (A4), Chaph_3 (A4), Chiqui_2 (A3), Chupacabra_3 (A10), Cici_3 (A4), Cindaradix_3 (A4), Cintron_3 (A4), Citius_3 (A4), Clammy_3 (A3), Clarenza_3 (A4), ClownCar_3 (A3), Cocoaberry_3 (A4), Colbster_3 (A3), Commander_3 (A4), Connomayer_3 (A4), Croquant_4 (A3), Cullens_3 (A3), DaHudson_3 (A3), Daishi_3 (A3), Datway_3 (A4), Deano_3 (A4), DekHockey33_6 (A15), Dieselweasel_3 (A3), DirtyDunning_3 (A4), DroogsArmy_3 (A7), DropBear_3 (A3), Druantia_3 (A4), DustyMartin_4 (A10), Eagle_2 (A4), Eaglepride_3 (A10), Eapen_3 (A4), Edison31_3 (A10), Elle_6 (A15), EpicPhail_3 (A3), Epsocamisio_6 (A15), Eris_3 (A4), Eros_3 (A4), EtoileNova_2 (A3), Farber_3 (A3), Fernando_3 (A3), Florean_3 (A4), FlyCatcher_3 (A7), Fred313_3 (A3), Funston_3 (A4), Gadost_3 (A4), Gemma_3 (A3), GingkoMaracino_3 (A3), Giroux_3 (A3), Goose1D_3 (A3), Goose1X_3 (A3), Goose_3 (A10), Grif_3 (A3), Groupthink_4 (A3), Grub_3 (A3), Grum1_3 (A3), GtownJaz_3 (A3), Gwennie_3 (A3), HINdeR_3 (A7), HamSlice_2 (A4), Happiness_3 (A4), HashRod_4 (A3), HaveUMetTed_4 (A3), Heathen_3 (A3), HelDan_3 (A3), Heliosoles_3 (A3), Hercules11_3 (A3), Holli_3 (A4), Hookmount_3 (A3), Houdini22_3 (A4), Huxley_3 (A4), Iceman_3 (A4), Idleandcovert_2 (A3), Isca_3 (A3), JF2_3 (A3), JF4_3 (A3), JHC117_3 (A3), JSwag_6 (A15), Jaykayelowell_3 (A4), JenCasNa_3 (A3), JeppNRM_4 (A3), Jobu08_3 (A3), JoongJeon_3 (A4), Junimo_2 (A4), KADY_4 (A3), KFPoly_3 (A4), Kachowdy_3 (A3), Kalb97_4 (A3), Kalnoky_4 (A3), Kampy_3 (A4), Katalie136_3 (A4), KatherineG_6 (A15), KekoraPapaka_2 (A4), Kingmustik0402_3 (A4), Koan_3 (A4), Koreni_3 (A4), Kratark_3 (A4), Kremtemulon_3 (A4), Kristoff_4 (A10), Kyee_3 (A4), LBerry_3 (A3), LHTSCC_3 (A4), Lambert1_3 (A3), LappelDuVide_3 (A4), LarryKay_3 (A3), LastResort_6 (A15), LeoAvram_3 (A4), Lilith_3 (A3), LittleB_3 (A4), LittleGuy_3 (A4), LochMonster_3 (A4), LogiBear_6 (A15), Looper_6 (A15), Lorenzo_3 (A4), Louie6_3 (A3), Lowa_3 (A3), LugYA_5 (A3), Lunsford_3 (A4), MA5_3 (A3), MK4_3 (A3), MadMarie_3 (A3), Mainiac_3 (A3), Malinsilva_5 (A3), Manu_4 (A3), MarQuardt_3 (A3), Marchesa_3 (A3), Margo_3 (A3), Marie_3 (A3), Marius_4 (A3), Maxo_3 (A4), Mayonnaise_3 (A4), Mazhar510_3 (A4), MeeZee_3 (A4), Methuselah_3 (A3), Microwolf_3 (A3), Millski_3 (A4), MinecraftSteve_7 (A15), Miramae_3 (A4), Misomonster_5 (A3), MoneyMay_3 (A3), Montavir_2 (A3), Morpher26_3 (A4), MuchMore_5 (A3), Mundrea_3 (A4), MyraDee_3 (A18), Nebs_3 (A4), Nebulosus_6 (A15), Nedarya_6 (A15), Noella_3 (A3), Noelle_3 (A4), Norbert_2 (A3), NorthStar_3 (A4), Northrop_3 (A4), NotAPhaseMom_3 (A4), Nyxis_3 (A4), OKCentral2016_3 (A10), OKaNui_3 (A4), Obama12_3 (A4), Ohfah_3 (A4), OlanP_3 (A3), Ollie_3 (A3), Onglai_6 (A9), Oofda_6 (A15), P28Green_3 (A3), PGHhamlin_5 (A3), Palestino_3 (A4), Panamaxus_3 (A3), Pawn_3 (A3), Pembroke_3 (A3), Penny1_3 (A3), Perplexer_3 (A4), PeterPeter_3 (A4), PetiteSangsue_3 (A4), Phacado_3 (A4), Phantastic_3 (A3), Phelipe_3 (A4), Phighter1804_3 (A4), PhishRPhriends_3 (A3), Phoebe_3 (A3), Phontbonne_3 (A4), Phoxy_3 (A3), Phranny_4 (A3), Pistachio_3 (A3), Pocahontas_3 (A3), Polymorphads_3 (A4), Popcicle_3 (A3), PotatoSplit_4 (A3), Pumbaa_3 (A4), Puppy_3 (A3), PurpleHaze_3 (A3), QuinnKiro_2 (A3), Ravana_6 (A15), ReMo_6 (A15), Reba_4 (A3), Rebeuca_4 (A10), Relief_3 (A4), Remus_6 (A15), ResDef_3 (A3), RhynO_3 (A10), RockieBear_3 (A4), Rocksand_3 (A4), Rockstar_3 (A3), Roimos_3 (A3), Romney_3 (A4), Roosevelt_3 (A4), Rosa24_2 (A4), Rosalind_6 (A15), Rowdy_4 (A10), Ruin_3 (A4), Rummer_3 (A3), Sabertooth_3 (A4), Sabia_3 (A3), Sabinator_3 (A3), SaturnRing_2 (A3), Scamp_3 (A4), Scout_3 (A3), SenorClean_3 (A4), Shapes_4 (A10), ShayRa_7 (A15), Sheen_3 (A7), SheldonCooper_3 (A4), Shep_3 (A3), Shygu2_3 (A4), Skadoosh_3 (A4), Skipitt_3 (A4), Snickers_3 (A3), SoYo_3 (A3), SoilDragon_3 (A3), Soshari_5 (A3), Soups_6 (A15), Sparxx_3 (A4), Spike509_3 (A3), Spino_3 (A4),

Stagni_3 (A3), Stasia_3 (A4), SteMason_3 (A4), StepMih_3 (A3), Stink_3 (A4), Strosahl_6 (A15), Sultana_3 (A4), Switzerland_6 (A15), TNguyen7_3 (A3), Taquarus_3 (A4), Taurus_3 (A3), Texage_2 (A3), Thanksgivukkah_3 (A4), Tiffany_3 (A3), Timshel_3 (A7), TinaFeyge_3 (A4), TinyPebbles_3 (A3), Tinybot_2 (A4), TiroTheta9_3 (A4), Todacoro_3 (A3), Topanga_3 (A10), Toro_3 (A7), TroyPia_3 (A4), Twister_3 (A10), TygerBlood_3 (A4), Ulysses_3 (A4), Veracruz_2 (A3), Vix_3 (A3), Waits_6 (A15), WalterMcMickey_3 (A10), Wander_3 (A4), Warrior24_6 (A15), Watson_3 (A3), Wilbur_3 (A4), Wile_3 (A4), Wizard007_3 (A4), Wooldri_5 (A3), Xena_3 (A4), YoSam321_3 (A4), Zarafa_3 (A3), Zetzy_3 (A3),

Start 18:
• Found in 1 of 347 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 318
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Anon_6 (A15),

Start 20:
• Found in 62 of 347 (17.9%) of genes in pham
• Manual Annotations of this start: 1 of 318
• Called 1.6% of time when present
• Phage (with cluster) where this start called: Tonitrus_54 (singleton),

Summary by clusters:

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

Info for manual annotations of cluster A10:
•Start number 17 was manually annotated 11 times for cluster A10.

Info for manual annotations of cluster A15:
•Start number 17 was manually annotated 24 times for cluster A15.
•Start number 18 was manually annotated 1 time for cluster A15.

Info for manual annotations of cluster A18:
•Start number 17 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A3:
•Start number 17 was manually annotated 125 times for cluster A3.

Info for manual annotations of cluster A4:
•Start number 11 was manually annotated 19 times for cluster A4.
•Start number 17 was manually annotated 125 times for cluster A4.

Info for manual annotations of cluster A7:
•Start number 17 was manually annotated 4 times for cluster A7.

Info for manual annotations of cluster A9:
•Start number 17 was manually annotated 1 time for cluster A9.

Info for manual annotations of cluster CP:
•Start number 13 was manually annotated 6 times for cluster CP.

Gene Information:

Gene: ACFishhook_3 Start: 1365, Stop: 1685, Start Num: 17
Candidate Starts for ACFishhook_3:
(Start: 17 @1365 has 291 MA's), (60, 1677),

Gene: AbbysRanger_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for AbbysRanger_3:
(14, 1299), (Start: 17 @1326 has 291 MA's), (24, 1365), (25, 1368), (34, 1428),

Gene: Abdiel_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Abdiel_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Achebe_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Achebe_3:
(14, 1299), (Start: 17 @1326 has 291 MA's), (24, 1365), (25, 1368), (34, 1428),

Gene: Aglet_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for Aglet_3:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: AgronaGT15_3 Start: 1362, Stop: 1682, Start Num: 17
Candidate Starts for AgronaGT15_3:
(Start: 17 @1362 has 291 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: Albee_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Albee_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Alberto7_3 Start: 1327, Stop: 1641, Start Num: 17
Candidate Starts for Alberto7_3:
(Start: 17 @1327 has 291 MA's), (34, 1429),

Gene: Anaysia_6 Start: 3082, Stop: 3417, Start Num: 17
Candidate Starts for Anaysia_6:
(Start: 17 @3082 has 291 MA's), (52, 3337), (56, 3391),

Gene: Annyong_3 Start: 1327, Stop: 1641, Start Num: 17
Candidate Starts for Annyong_3:
(Start: 17 @1327 has 291 MA's), (34, 1429),

Gene: Anon_6 Start: 2991, Stop: 3323, Start Num: 18
Candidate Starts for Anon_6:
(Start: 18 @2991 has 1 MA's), (29, 3069), (34, 3093), (46, 3177), (52, 3243),

Gene: Anubis_5 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for Anubis_5:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

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

Candidate Starts for Arturo_2:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: AugsMagnumOpus_5 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for AugsMagnumOpus_5:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: AvatarAhPeg_3 Start: 1319, Stop: 1633, Start Num: 17
Candidate Starts for AvatarAhPeg_3:
(14, 1292), (Start: 17 @1319 has 291 MA's), (34, 1421),

Gene: Avle17_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Avle17_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: B1_02 Start: 1283, Stop: 1603, Start Num: 17
Candidate Starts for B1_02:
(Start: 17 @1283 has 291 MA's), (Start: 20 @1289 has 1 MA's),

Gene: Baby16_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Baby16_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: BabyJohn_2 Start: 1302, Stop: 1622, Start Num: 17
Candidate Starts for BabyJohn_2:
(Start: 17 @1302 has 291 MA's), (Start: 20 @1308 has 1 MA's), (34, 1404),

Gene: BabyRay_3 Start: 1325, Stop: 1645, Start Num: 17
Candidate Starts for BabyRay_3:
(Start: 17 @1325 has 291 MA's), (Start: 20 @1331 has 1 MA's), (34, 1427),

Gene: Backyardigan_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Backyardigan_3:
(14, 1299), (Start: 17 @1326 has 291 MA's), (24, 1365), (25, 1368), (34, 1428),

Gene: Badger_3 Start: 1327, Stop: 1641, Start Num: 17
Candidate Starts for Badger_3:
(14, 1300), (Start: 17 @1327 has 291 MA's), (24, 1366), (25, 1369), (34, 1429),

Gene: BangNhom_2 Start: 1323, Stop: 1637, Start Num: 17
Candidate Starts for BangNhom_2:
(Start: 17 @1323 has 291 MA's), (34, 1425),

Gene: Bartimeaus_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Bartimeaus_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Battleship_7 Start: 3229, Stop: 3564, Start Num: 17
Candidate Starts for Battleship_7:
(Start: 17 @3229 has 291 MA's), (52, 3484), (56, 3538),

Gene: Beauxregard13_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for Beauxregard13_3:

(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: BellusTerra_3 Start: 1257, Stop: 1640, Start Num: 11
Candidate Starts for BellusTerra_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Bigflo_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for Bigflo_3:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Blackmoor_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Blackmoor_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: BlueBird_3 Start: 1287, Stop: 1607, Start Num: 17
Candidate Starts for BlueBird_3:
(Start: 17 @1287 has 291 MA's), (Start: 20 @1293 has 1 MA's), (34, 1389),

Gene: Bombshell_3 Start: 1257, Stop: 1640, Start Num: 11
Candidate Starts for Bombshell_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Boohoo_6 Start: 3082, Stop: 3417, Start Num: 17
Candidate Starts for Boohoo_6:
(Start: 17 @3082 has 291 MA's), (52, 3337), (56, 3391),

Gene: BreSam8_3 Start: 1362, Stop: 1682, Start Num: 17
Candidate Starts for BreSam8_3:
(Start: 17 @1362 has 291 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: Broseidon_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Broseidon_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Bruiser_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Bruiser_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: BubbleTrouble_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for BubbleTrouble_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Buckaroo_2 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Buckaroo_2:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Bugatti_3 Start: 1287, Stop: 1607, Start Num: 17
Candidate Starts for Bugatti_3:
(Start: 17 @1287 has 291 MA's), (Start: 20 @1293 has 1 MA's), (34, 1389),

Gene: Bumblebee11_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Bumblebee11_3:
(14, 1299), (Start: 17 @1326 has 291 MA's), (24, 1365), (25, 1368), (34, 1428),

Gene: Burger_2 Start: 1257, Stop: 1640, Start Num: 11
Candidate Starts for Burger_2:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: BuzzBuzz_2 Start: 1362, Stop: 1682, Start Num: 17
Candidate Starts for BuzzBuzz_2:
(Start: 17 @1362 has 291 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: Bxz2_3 Start: 1372, Stop: 1692, Start Num: 17
Candidate Starts for Bxz2_3:
(Start: 17 @1372 has 291 MA's), (46, 1555), (54, 1660), (60, 1684),

Gene: Caelakin_3 Start: 1257, Stop: 1640, Start Num: 11
Candidate Starts for Caelakin_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Calvinny_3 Start: 1365, Stop: 1685, Start Num: 17
Candidate Starts for Calvinny_3:
(Start: 17 @1365 has 291 MA's), (60, 1677),

Gene: Camperdownii_3 Start: 1327, Stop: 1641, Start Num: 17
Candidate Starts for Camperdownii_3:
(Start: 17 @1327 has 291 MA's), (34, 1429),

Gene: Cat_2 Start: 1325, Stop: 1645, Start Num: 17
Candidate Starts for Cat_2:
(Start: 17 @1325 has 291 MA's), (Start: 20 @1331 has 1 MA's), (34, 1427),

Gene: Caviar_3 Start: 1308, Stop: 1628, Start Num: 17
Candidate Starts for Caviar_3:
(Start: 17 @1308 has 291 MA's), (Start: 20 @1314 has 1 MA's),

Gene: CentreCat_3 Start: 1327, Stop: 1641, Start Num: 17
Candidate Starts for CentreCat_3:
(Start: 17 @1327 has 291 MA's), (34, 1429),

Gene: Cerulean_3 Start: 1324, Stop: 1638, Start Num: 17
Candidate Starts for Cerulean_3:
(Start: 17 @1324 has 291 MA's), (34, 1426),

Gene: ChampagnePapi_3 Start: 1323, Stop: 1637, Start Num: 17
Candidate Starts for ChampagnePapi_3:
(Start: 17 @1323 has 291 MA's), (34, 1425),

Gene: Chaph_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Chaph_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Chiqui_2 Start: 1302, Stop: 1622, Start Num: 17
Candidate Starts for Chiqui_2:
(Start: 17 @1302 has 291 MA's), (Start: 20 @1308 has 1 MA's), (34, 1404),

Gene: Chupacabra_3 Start: 1315, Stop: 1629, Start Num: 17
Candidate Starts for Chupacabra_3:
(Start: 17 @1315 has 291 MA's), (Start: 20 @1321 has 1 MA's), (52, 1558),

Gene: Cici_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Cici_3:
(14, 1299), (Start: 17 @1326 has 291 MA's), (24, 1365), (25, 1368), (34, 1428),

Gene: Cindaradix_3 Start: 1324, Stop: 1638, Start Num: 17
Candidate Starts for Cindaradix_3:
(Start: 17 @1324 has 291 MA's), (24, 1363), (25, 1366), (34, 1426),

Gene: Cintron_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Cintron_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Citius_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Citius_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Clammy_3 Start: 1287, Stop: 1607, Start Num: 17
Candidate Starts for Clammy_3:
(Start: 17 @1287 has 291 MA's), (Start: 20 @1293 has 1 MA's), (34, 1389),

Gene: Clarenza_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Clarenza_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Clawz_67 Start: 44832, Stop: 45194, Start Num: 13
Candidate Starts for Clawz_67:
(1, 44373), (3, 44550), (4, 44553), (5, 44610), (6, 44613), (Start: 13 @44832 has 6 MA's), (22, 44889),
(26, 44910), (33, 44955), (45, 45069), (47, 45081), (48, 45096), (49, 45105), (57, 45180),

Gene: ClownCar_3 Start: 1365, Stop: 1685, Start Num: 17
Candidate Starts for ClownCar_3:
(Start: 17 @1365 has 291 MA's), (60, 1677),

Gene: Cocoaberry_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Cocoaberry_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Colbster_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for Colbster_3:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Commander_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Commander_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Connomayer_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Connomayer_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Croquant_4 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for Croquant_4:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Cullens_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for Cullens_3:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: DaHudson_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for DaHudson_3:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Daishi_3 Start: 1362, Stop: 1682, Start Num: 17
Candidate Starts for Daishi_3:
(Start: 17 @1362 has 291 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: Datway_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Datway_3:
(14, 1299), (Start: 17 @1326 has 291 MA's), (24, 1365), (25, 1368), (34, 1428),

Gene: Deano_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Deano_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: DekHockey33_6 Start: 3229, Stop: 3564, Start Num: 17
Candidate Starts for DekHockey33_6:
(Start: 17 @3229 has 291 MA's), (52, 3484), (56, 3538),

Gene: Dhanush_3 Start: 1256, Stop: 1639, Start Num: 11
Candidate Starts for Dhanush_3:
(Start: 11 @1256 has 19 MA's), (Start: 17 @1325 has 291 MA's), (34, 1427),

Gene: Dieselweasel_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for Dieselweasel_3:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: DirtyDunning_3 Start: 1324, Stop: 1638, Start Num: 17
Candidate Starts for DirtyDunning_3:
(Start: 11 @1255 has 19 MA's), (Start: 17 @1324 has 291 MA's), (34, 1426),

Gene: DonTron_67 Start: 45068, Stop: 45430, Start Num: 13
Candidate Starts for DonTron_67:
(Start: 13 @45068 has 6 MA's), (22, 45125), (33, 45191), (39, 45245), (47, 45317), (48, 45332), (57, 45416),

Gene: DroogsArmy_3 Start: 1254, Stop: 1577, Start Num: 17
Candidate Starts for DroogsArmy_3:
(Start: 17 @1254 has 291 MA's), (23, 1287), (28, 1326), (32, 1344), (38, 1374), (40, 1401), (52, 1500), (59, 1560),

Gene: DropBear_3 Start: 1280, Stop: 1600, Start Num: 17
Candidate Starts for DropBear_3:
(Start: 17 @1280 has 291 MA's), (Start: 20 @1286 has 1 MA's), (34, 1382),

Gene: Druantia_3 Start: 1327, Stop: 1641, Start Num: 17
Candidate Starts for Druantia_3:
(Start: 11 @1258 has 19 MA's), (Start: 17 @1327 has 291 MA's), (34, 1429),

Gene: DustyMartin_4 Start: 1329, Stop: 1664, Start Num: 17
Candidate Starts for DustyMartin_4:
(Start: 17 @1329 has 291 MA's), (Start: 20 @1335 has 1 MA's), (46, 1527), (52, 1593),

Gene: Eagle_2 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Eagle_2:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Eaglepride_3 Start: 1327, Stop: 1662, Start Num: 17
Candidate Starts for Eaglepride_3:
(Start: 11 @1261 has 19 MA's), (Start: 17 @1327 has 291 MA's), (Start: 20 @1333 has 1 MA's), (52, 1591),

Gene: Eapen_3 Start: 1328, Stop: 1642, Start Num: 17
Candidate Starts for Eapen_3:
(Start: 17 @1328 has 291 MA's), (34, 1430),

Gene: Edison31_3 Start: 1322, Stop: 1657, Start Num: 17
Candidate Starts for Edison31_3:
(Start: 17 @1322 has 291 MA's), (Start: 20 @1328 has 1 MA's), (52, 1586),

Gene: Elle_6 Start: 2948, Stop: 3280, Start Num: 17
Candidate Starts for Elle_6:
(Start: 17 @2948 has 291 MA's), (29, 3026), (34, 3050), (46, 3134),

Gene: EpicPhail_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for EpicPhail_3:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Epsocamisio_6 Start: 3082, Stop: 3417, Start Num: 17
Candidate Starts for Epsocamisio_6:
(Start: 17 @3082 has 291 MA's), (52, 3337), (56, 3391),

Gene: Eris_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Eris_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Eros_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Eros_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: EtoileNova_2 Start: 1308, Stop: 1628, Start Num: 17
Candidate Starts for EtoileNova_2:
(Start: 17 @1308 has 291 MA's), (Start: 20 @1314 has 1 MA's),

Gene: Eurydice_3 Start: 1257, Stop: 1640, Start Num: 11
Candidate Starts for Eurydice_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Farber_3 Start: 1362, Stop: 1682, Start Num: 17
Candidate Starts for Farber_3:
(Start: 17 @1362 has 291 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: Fernando_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for Fernando_3:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Florean_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Florean_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Flux_3 Start: 1257, Stop: 1640, Start Num: 11
Candidate Starts for Flux_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: FlyCatcher_3 Start: 1258, Stop: 1575, Start Num: 17
Candidate Starts for FlyCatcher_3:
(12, 1216), (Start: 17 @1258 has 291 MA's), (24, 1294), (28, 1330), (52, 1498), (59, 1558),

Gene: Fred313_3 Start: 1280, Stop: 1600, Start Num: 17
Candidate Starts for Fred313_3:
(Start: 17 @1280 has 291 MA's), (Start: 20 @1286 has 1 MA's), (34, 1382),

Gene: Funston_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Funston_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: GMA4_64 Start: 42024, Stop: 42347, Start Num: 16
Candidate Starts for GMA4_64:
(16, 42024), (58, 42333), (59, 42336),

Gene: Gadost_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Gadost_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Gemma_3 Start: 1365, Stop: 1685, Start Num: 17
Candidate Starts for Gemma_3:
(Start: 17 @1365 has 291 MA's), (60, 1677),

Gene: GingkoMaracino_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for GingkoMaracino_3:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Giroux_3 Start: 1287, Stop: 1607, Start Num: 17
Candidate Starts for Giroux_3:
(Start: 17 @1287 has 291 MA's), (Start: 20 @1293 has 1 MA's), (34, 1389),

Gene: Goose_3 Start: 1317, Stop: 1631, Start Num: 17
Candidate Starts for Goose_3:
(Start: 17 @1317 has 291 MA's), (Start: 20 @1323 has 1 MA's), (52, 1560),

Gene: Goose1D_3 Start: 1280, Stop: 1600, Start Num: 17
Candidate Starts for Goose1D_3:
(Start: 17 @1280 has 291 MA's), (Start: 20 @1286 has 1 MA's), (34, 1382),

Gene: Goose1X_3 Start: 1280, Stop: 1600, Start Num: 17
Candidate Starts for Goose1X_3:
(Start: 17 @1280 has 291 MA's), (Start: 20 @1286 has 1 MA's), (34, 1382),

Gene: Grif_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for Grif_3:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Groupthink_4 Start: 1365, Stop: 1685, Start Num: 17
Candidate Starts for Groupthink_4:
(Start: 17 @1365 has 291 MA's), (60, 1677),

Gene: Grub_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for Grub_3:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Grum1_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for Grum1_3:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Grumio_67 Start: 44509, Stop: 44871, Start Num: 13
Candidate Starts for Grumio_67:
(Start: 13 @44509 has 6 MA's), (22, 44566), (33, 44632), (39, 44686), (48, 44773), (57, 44857),

Gene: GtownJaz_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for GtownJaz_3:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Gwennie_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for Gwennie_3:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: HINdeR_3 Start: 1249, Stop: 1572, Start Num: 17
Candidate Starts for HINdeR_3:
(Start: 17 @1249 has 291 MA's), (23, 1282), (24, 1285), (32, 1339), (38, 1369), (40, 1396), (52, 1495), (54, 1534), (59, 1555),

Gene: HamSlice_2 Start: 1327, Stop: 1641, Start Num: 17
Candidate Starts for HamSlice_2:
(Start: 17 @1327 has 291 MA's), (34, 1429),

Gene: Happiness_3 Start: 1325, Stop: 1639, Start Num: 17
Candidate Starts for Happiness_3:
(Start: 11 @1256 has 19 MA's), (Start: 17 @1325 has 291 MA's), (34, 1427),

Gene: HashRod_4 Start: 1362, Stop: 1682, Start Num: 17
Candidate Starts for HashRod_4:
(Start: 17 @1362 has 291 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: HaveUMetTed_4 Start: 1365, Stop: 1685, Start Num: 17
Candidate Starts for HaveUMetTed_4:
(Start: 17 @1365 has 291 MA's), (60, 1677),

Gene: Heathen_3 Start: 1280, Stop: 1600, Start Num: 17
Candidate Starts for Heathen_3:
(Start: 17 @1280 has 291 MA's), (Start: 20 @1286 has 1 MA's), (34, 1382),

Gene: HelDan_3 Start: 1280, Stop: 1600, Start Num: 17
Candidate Starts for HelDan_3:
(Start: 17 @1280 has 291 MA's), (Start: 20 @1286 has 1 MA's), (34, 1382),

Gene: Heliosoles_3 Start: 1365, Stop: 1685, Start Num: 17
Candidate Starts for Heliosoles_3:
(Start: 17 @1365 has 291 MA's), (60, 1677),

Gene: Hercules11_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for Hercules11_3:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Holli_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Holli_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Hookmount_3 Start: 1308, Stop: 1628, Start Num: 17
Candidate Starts for Hookmount_3:
(Start: 17 @1308 has 291 MA's), (Start: 20 @1314 has 1 MA's),

Gene: Houdini22_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Houdini22_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Huxley_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Huxley_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: ICleared_3 Start: 1257, Stop: 1640, Start Num: 11
Candidate Starts for ICleared_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Iceman_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Iceman_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Idleandcovert_2 Start: 1287, Stop: 1607, Start Num: 17
Candidate Starts for Idleandcovert_2:
(Start: 17 @1287 has 291 MA's), (Start: 20 @1293 has 1 MA's), (34, 1389),

Gene: Iracema64_3 Start: 1257, Stop: 1640, Start Num: 11
Candidate Starts for Iracema64_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

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

Candidate Starts for Isca_3:
(Start: 17 @1285 has 291 MA's), (Start: 20 @1291 has 1 MA's),

Gene: JF2_3 Start: 1283, Stop: 1603, Start Num: 17
Candidate Starts for JF2_3:
(Start: 17 @1283 has 291 MA's), (Start: 20 @1289 has 1 MA's),

Gene: JF4_3 Start: 1283, Stop: 1603, Start Num: 17
Candidate Starts for JF4_3:
(Start: 17 @1283 has 291 MA's), (Start: 20 @1289 has 1 MA's),

Gene: JHC117_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for JHC117_3:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: JSwag_6 Start: 3082, Stop: 3417, Start Num: 17
Candidate Starts for JSwag_6:
(Start: 17 @3082 has 291 MA's), (52, 3337), (56, 3391),

Gene: Jaykayelowell_3 Start: 1325, Stop: 1639, Start Num: 17
Candidate Starts for Jaykayelowell_3:
(Start: 17 @1325 has 291 MA's), (34, 1427),

Gene: JenCasNa_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for JenCasNa_3:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: JeppNRM_4 Start: 1365, Stop: 1685, Start Num: 17
Candidate Starts for JeppNRM_4:
(Start: 17 @1365 has 291 MA's), (60, 1677),

Gene: JetBlade_3 Start: 1257, Stop: 1640, Start Num: 11
Candidate Starts for JetBlade_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Jobu08_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for Jobu08_3:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: JoongJeon_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for JoongJeon_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Junimo_2 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Junimo_2:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: KADY_4 Start: 1362, Stop: 1682, Start Num: 17
Candidate Starts for KADY_4:
(Start: 17 @1362 has 291 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: KFPoly_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for KFPoly_3:

(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Kachowdy_3 Start: 1280, Stop: 1600, Start Num: 17
Candidate Starts for Kachowdy_3:
(Start: 17 @1280 has 291 MA's), (Start: 20 @1286 has 1 MA's), (34, 1382),

Gene: Kalb97_4 Start: 1363, Stop: 1683, Start Num: 17
Candidate Starts for Kalb97_4:
(Start: 17 @1363 has 291 MA's), (60, 1675),

Gene: Kalnoky_4 Start: 1365, Stop: 1685, Start Num: 17
Candidate Starts for Kalnoky_4:
(Start: 17 @1365 has 291 MA's), (60, 1677),

Gene: Kampy_3 Start: 1327, Stop: 1641, Start Num: 17
Candidate Starts for Kampy_3:
(Start: 17 @1327 has 291 MA's), (34, 1429),

Gene: Katalie136_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Katalie136_3:
(14, 1299), (Start: 17 @1326 has 291 MA's), (24, 1365), (25, 1368), (34, 1428),

Gene: KatherineG_6 Start: 3229, Stop: 3564, Start Num: 17
Candidate Starts for KatherineG_6:
(Start: 17 @3229 has 291 MA's), (52, 3484), (56, 3538),

Gene: KekoraPapaka_2 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for KekoraPapaka_2:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Kingmustik0402_3 Start: 1327, Stop: 1641, Start Num: 17
Candidate Starts for Kingmustik0402_3:
(Start: 17 @1327 has 291 MA's), (34, 1429),

Gene: KingstonB_65 Start: 44506, Stop: 44868, Start Num: 13
Candidate Starts for KingstonB_65:
(Start: 13 @44506 has 6 MA's), (22, 44563), (33, 44629), (39, 44683), (48, 44770), (57, 44854),

Gene: Koan_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Koan_3:
(Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Koreni_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Koreni_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Kratark_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Kratark_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Kremtemulon_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Kremtemulon_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Kristoff_4 Start: 1487, Stop: 1822, Start Num: 17
Candidate Starts for Kristoff_4:
(Start: 17 @1487 has 291 MA's), (Start: 20 @1493 has 1 MA's), (52, 1751),

Gene: Kyee_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Kyee_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: LBerry_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for LBerry_3:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: LHTSCC_3 Start: 1323, Stop: 1637, Start Num: 17
Candidate Starts for LHTSCC_3:
(Start: 17 @1323 has 291 MA's), (34, 1425),

Gene: Lambert1_3 Start: 1308, Stop: 1628, Start Num: 17
Candidate Starts for Lambert1_3:
(Start: 17 @1308 has 291 MA's), (Start: 20 @1314 has 1 MA's),

Gene: LappelDuVide_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for LappelDuVide_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: LarryKay_3 Start: 1362, Stop: 1682, Start Num: 17
Candidate Starts for LarryKay_3:
(Start: 17 @1362 has 291 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: LastResort_6 Start: 3082, Stop: 3417, Start Num: 17
Candidate Starts for LastResort_6:
(Start: 17 @3082 has 291 MA's), (52, 3337), (56, 3391),

Gene: Lemur_3 Start: 1257, Stop: 1640, Start Num: 11
Candidate Starts for Lemur_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: LeoAvram_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for LeoAvram_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Lilith_3 Start: 1362, Stop: 1682, Start Num: 17
Candidate Starts for Lilith_3:
(Start: 17 @1362 has 291 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: LittleB_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for LittleB_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: LittleGuy_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for LittleGuy_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: LochMonster_3 Start: 1324, Stop: 1638, Start Num: 17
Candidate Starts for LochMonster_3:
(Start: 11 @1255 has 19 MA's), (Start: 17 @1324 has 291 MA's), (34, 1426),

Gene: LogiBear_6 Start: 3135, Stop: 3464, Start Num: 17
Candidate Starts for LogiBear_6:
(Start: 17 @3135 has 291 MA's), (31, 3219), (56, 3441), (58, 3444),

Gene: Looper_6 Start: 3082, Stop: 3417, Start Num: 17
Candidate Starts for Looper_6:
(Start: 17 @3082 has 291 MA's), (52, 3337), (56, 3391),

Gene: Lorenzo_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Lorenzo_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Louie6_3 Start: 1362, Stop: 1682, Start Num: 17
Candidate Starts for Louie6_3:
(Start: 17 @1362 has 291 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: Lowa_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for Lowa_3:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: LugYA_5 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for LugYA_5:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Lunsford_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Lunsford_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: MA5_3 Start: 1297, Stop: 1617, Start Num: 17
Candidate Starts for MA5_3:
(Start: 17 @1297 has 291 MA's), (Start: 20 @1303 has 1 MA's), (34, 1399), (36, 1411),

Gene: MK4_3 Start: 1283, Stop: 1603, Start Num: 17
Candidate Starts for MK4_3:
(Start: 17 @1283 has 291 MA's), (Start: 20 @1289 has 1 MA's),

Gene: MadMarie_3 Start: 1362, Stop: 1682, Start Num: 17
Candidate Starts for MadMarie_3:
(Start: 17 @1362 has 291 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: Mainiac_3 Start: 1362, Stop: 1682, Start Num: 17
Candidate Starts for Mainiac_3:
(Start: 17 @1362 has 291 MA's), (46, 1545), (54, 1650), (60, 1674),

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

Gene: Malinsilva_5 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for Malinsilva_5:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Manu_4 Start: 1365, Stop: 1685, Start Num: 17
Candidate Starts for Manu_4:
(Start: 17 @1365 has 291 MA's), (60, 1677),

Gene: MarQuardt_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for MarQuardt_3:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Marchesa_3 Start: 1280, Stop: 1600, Start Num: 17
Candidate Starts for Marchesa_3:
(Start: 17 @1280 has 291 MA's), (Start: 20 @1286 has 1 MA's), (34, 1382),

Gene: Margo_3 Start: 1308, Stop: 1628, Start Num: 17
Candidate Starts for Margo_3:
(Start: 17 @1308 has 291 MA's), (Start: 20 @1314 has 1 MA's),

Gene: Marie_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for Marie_3:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Marius_4 Start: 1365, Stop: 1685, Start Num: 17
Candidate Starts for Marius_4:
(Start: 17 @1365 has 291 MA's), (60, 1677),

Gene: Maverick_3 Start: 1257, Stop: 1640, Start Num: 11
Candidate Starts for Maverick_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Maxo_3 Start: 1327, Stop: 1641, Start Num: 17
Candidate Starts for Maxo_3:
(Start: 17 @1327 has 291 MA's), (34, 1429),

Gene: Mayonnaise_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Mayonnaise_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Mazhar510_3 Start: 1327, Stop: 1641, Start Num: 17
Candidate Starts for Mazhar510_3:
(Start: 11 @1258 has 19 MA's), (Start: 17 @1327 has 291 MA's), (34, 1429),

Gene: Medusa_3 Start: 1257, Stop: 1640, Start Num: 11
Candidate Starts for Medusa_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: MeeZee_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for MeeZee_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Melvin_3 Start: 1257, Stop: 1640, Start Num: 11

Candidate Starts for Melvin_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Methuselah_3 Start: 1362, Stop: 1682, Start Num: 17
Candidate Starts for Methuselah_3:
(Start: 17 @1362 has 291 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: Microwolf_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for Microwolf_3:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Millski_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Millski_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: MinecraftSteve_7 Start: 3229, Stop: 3564, Start Num: 17
Candidate Starts for MinecraftSteve_7:
(Start: 17 @3229 has 291 MA's), (52, 3484), (56, 3538),

Gene: Miramae_3 Start: 1319, Stop: 1633, Start Num: 17
Candidate Starts for Miramae_3:
(14, 1292), (Start: 17 @1319 has 291 MA's), (34, 1421),

Gene: Misomonster_5 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for Misomonster_5:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: MoneyMay_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for MoneyMay_3:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Montavir_2 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for Montavir_2:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Morpher26_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Morpher26_3:
(14, 1299), (Start: 17 @1326 has 291 MA's), (24, 1365), (25, 1368), (34, 1428),

Gene: Morrow_3 Start: 1257, Stop: 1640, Start Num: 11
Candidate Starts for Morrow_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: MuchMore_5 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for MuchMore_5:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Mundrea_3 Start: 1324, Stop: 1638, Start Num: 17
Candidate Starts for Mundrea_3:
(15, 1309), (Start: 17 @1324 has 291 MA's), (24, 1363), (25, 1366), (34, 1426),

Gene: MyraDee_3 Start: 1206, Stop: 1520, Start Num: 17
Candidate Starts for MyraDee_3:

(2, 846), (Start: 17 @1206 has 291 MA's), (52, 1449), (59, 1509),

Gene: Nebs_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Nebs_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Nebulosus_6 Start: 3082, Stop: 3417, Start Num: 17
Candidate Starts for Nebulosus_6:
(Start: 17 @3082 has 291 MA's), (52, 3337), (56, 3391),

Gene: Nedarya_6 Start: 3048, Stop: 3386, Start Num: 17
Candidate Starts for Nedarya_6:
(Start: 17 @3048 has 291 MA's), (31, 3135), (41, 3204), (52, 3306),

Gene: Nemo27_3 Start: 1256, Stop: 1639, Start Num: 11
Candidate Starts for Nemo27_3:
(Start: 11 @1256 has 19 MA's), (Start: 17 @1325 has 291 MA's), (34, 1427),

Gene: Noella_3 Start: 1308, Stop: 1628, Start Num: 17
Candidate Starts for Noella_3:
(Start: 17 @1308 has 291 MA's), (Start: 20 @1314 has 1 MA's),

Gene: Noelle_3 Start: 1311, Stop: 1625, Start Num: 17
Candidate Starts for Noelle_3:
(Start: 17 @1311 has 291 MA's), (24, 1350), (25, 1353), (34, 1413),

Gene: Norbert_2 Start: 1308, Stop: 1628, Start Num: 17
Candidate Starts for Norbert_2:
(Start: 17 @1308 has 291 MA's), (Start: 20 @1314 has 1 MA's),

Gene: NorthStar_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for NorthStar_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Northrop_3 Start: 1325, Stop: 1639, Start Num: 17
Candidate Starts for Northrop_3:
(Start: 17 @1325 has 291 MA's), (34, 1427),

Gene: NotAPhaseMom_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for NotAPhaseMom_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Nyxis_3 Start: 1329, Stop: 1643, Start Num: 17
Candidate Starts for Nyxis_3:
(Start: 17 @1329 has 291 MA's), (34, 1431),

Gene: OKCentral2016_3 Start: 1319, Stop: 1633, Start Num: 17
Candidate Starts for OKCentral2016_3:
(Start: 17 @1319 has 291 MA's), (Start: 20 @1325 has 1 MA's), (52, 1562),

Gene: OKaNui_3 Start: 1325, Stop: 1639, Start Num: 17
Candidate Starts for OKaNui_3:
(Start: 11 @1256 has 19 MA's), (Start: 17 @1325 has 291 MA's), (34, 1427),

Gene: Obama12_3 Start: 1325, Stop: 1639, Start Num: 17
Candidate Starts for Obama12_3:
(Start: 17 @1325 has 291 MA's), (34, 1427),

Gene: Ohfah_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Ohfah_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: OlanP_3 Start: 1544, Stop: 1864, Start Num: 17
Candidate Starts for OlanP_3:
(Start: 17 @1544 has 291 MA's), (60, 1856),

Gene: Ollie_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for Ollie_3:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Onglai_6 Start: 3230, Stop: 3556, Start Num: 17
Candidate Starts for Onglai_6:
(Start: 17 @3230 has 291 MA's), (42, 3401), (51, 3473), (52, 3485), (58, 3542), (60, 3548),

Gene: Oofda_6 Start: 3085, Stop: 3420, Start Num: 17
Candidate Starts for Oofda_6:
(Start: 17 @3085 has 291 MA's), (52, 3340), (56, 3394),

Gene: P28Green_3 Start: 1362, Stop: 1682, Start Num: 17
Candidate Starts for P28Green_3:
(Start: 17 @1362 has 291 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: PGHhamlin_5 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for PGHhamlin_5:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Palestino_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Palestino_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Panamaxus_3 Start: 1308, Stop: 1628, Start Num: 17
Candidate Starts for Panamaxus_3:
(Start: 17 @1308 has 291 MA's), (Start: 20 @1314 has 1 MA's),

Gene: Pawn_3 Start: 1365, Stop: 1685, Start Num: 17
Candidate Starts for Pawn_3:
(Start: 17 @1365 has 291 MA's), (60, 1677),

Gene: Peaches_3 Start: 1257, Stop: 1640, Start Num: 11
Candidate Starts for Peaches_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Pembroke_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for Pembroke_3:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Penny1_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for Penny1_3:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Perplexer_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Perplexer_3:
(14, 1299), (Start: 17 @1326 has 291 MA's), (24, 1365), (25, 1368), (34, 1428),

Gene: PeterPeter_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for PeterPeter_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: PetiteSangsue_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for PetiteSangsue_3:
(14, 1299), (Start: 17 @1326 has 291 MA's), (24, 1365), (25, 1368), (34, 1428),

Gene: Phacado_3 Start: 1325, Stop: 1639, Start Num: 17
Candidate Starts for Phacado_3:
(Start: 11 @1256 has 19 MA's), (Start: 17 @1325 has 291 MA's), (34, 1427),

Gene: Phantastic_3 Start: 1292, Stop: 1612, Start Num: 17
Candidate Starts for Phantastic_3:
(Start: 17 @1292 has 291 MA's), (Start: 20 @1298 has 1 MA's), (34, 1394),

Gene: Phelipe_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Phelipe_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Phighter1804_3 Start: 1325, Stop: 1639, Start Num: 17
Candidate Starts for Phighter1804_3:
(Start: 17 @1325 has 291 MA's), (34, 1427),

Gene: PhishRPhriends_3 Start: 1366, Stop: 1686, Start Num: 17
Candidate Starts for PhishRPhriends_3:
(Start: 17 @1366 has 291 MA's), (60, 1678),

Gene: Phoebe_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for Phoebe_3:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Phontbonne_3 Start: 1324, Stop: 1638, Start Num: 17
Candidate Starts for Phontbonne_3:
(Start: 11 @1255 has 19 MA's), (Start: 17 @1324 has 291 MA's), (34, 1426),

Gene: Phoxy_3 Start: 1362, Stop: 1682, Start Num: 17
Candidate Starts for Phoxy_3:
(Start: 17 @1362 has 291 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: Phranny_4 Start: 1365, Stop: 1685, Start Num: 17
Candidate Starts for Phranny_4:
(Start: 17 @1365 has 291 MA's), (60, 1677),

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

Candidate Starts for Pipcraft_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Pistachio_3 Start: 1287, Stop: 1607, Start Num: 17
Candidate Starts for Pistachio_3:
(Start: 17 @1287 has 291 MA's), (Start: 20 @1293 has 1 MA's), (34, 1389),

Gene: Pocahontas_3 Start: 1308, Stop: 1628, Start Num: 17
Candidate Starts for Pocahontas_3:
(Start: 17 @1308 has 291 MA's), (Start: 20 @1314 has 1 MA's),

Gene: Polymorphads_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Polymorphads_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Popcicle_3 Start: 1308, Stop: 1628, Start Num: 17
Candidate Starts for Popcicle_3:
(Start: 17 @1308 has 291 MA's), (Start: 20 @1314 has 1 MA's),

Gene: PotatoSplit_4 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for PotatoSplit_4:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Pumbaa_3 Start: 1324, Stop: 1638, Start Num: 17
Candidate Starts for Pumbaa_3:
(Start: 11 @1255 has 19 MA's), (Start: 17 @1324 has 291 MA's), (34, 1426),

Gene: Puppy_3 Start: 1287, Stop: 1607, Start Num: 17
Candidate Starts for Puppy_3:
(Start: 17 @1287 has 291 MA's), (Start: 20 @1293 has 1 MA's), (34, 1389),

Gene: PurpleHaze_3 Start: 1364, Stop: 1684, Start Num: 17
Candidate Starts for PurpleHaze_3:
(Start: 17 @1364 has 291 MA's), (60, 1676),

Gene: QuinnKiro_2 Start: 1308, Stop: 1628, Start Num: 17
Candidate Starts for QuinnKiro_2:
(Start: 17 @1308 has 291 MA's), (Start: 20 @1314 has 1 MA's),

Gene: Ravana_6 Start: 3082, Stop: 3417, Start Num: 17
Candidate Starts for Ravana_6:
(Start: 17 @3082 has 291 MA's), (52, 3337), (56, 3391),

Gene: ReMo_6 Start: 3082, Stop: 3417, Start Num: 17
Candidate Starts for ReMo_6:
(Start: 17 @3082 has 291 MA's), (52, 3337), (56, 3391),

Gene: Reba_4 Start: 1365, Stop: 1685, Start Num: 17
Candidate Starts for Reba_4:
(Start: 17 @1365 has 291 MA's), (60, 1677),

Gene: Rebeuca_4 Start: 1488, Stop: 1823, Start Num: 17
Candidate Starts for Rebeuca_4:

(Start: 17 @1488 has 291 MA's), (Start: 20 @1494 has 1 MA's), (52, 1752),

Gene: Relief_3 Start: 1327, Stop: 1641, Start Num: 17
Candidate Starts for Relief_3:
(Start: 17 @1327 has 291 MA's), (34, 1429),

Gene: Remus_6 Start: 3082, Stop: 3417, Start Num: 17
Candidate Starts for Remus_6:
(Start: 17 @3082 has 291 MA's), (52, 3337), (56, 3391),

Gene: ResDef_3 Start: 1308, Stop: 1628, Start Num: 17
Candidate Starts for ResDef_3:
(Start: 17 @1308 has 291 MA's), (Start: 20 @1314 has 1 MA's),

Gene: RhynO_3 Start: 1333, Stop: 1668, Start Num: 17
Candidate Starts for RhynO_3:
(8, 1126), (9, 1180), (10, 1204), (Start: 17 @1333 has 291 MA's), (Start: 20 @1339 has 1 MA's), (52, 1597),

Gene: RockieBear_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for RockieBear_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Rocksand_3 Start: 1325, Stop: 1639, Start Num: 17
Candidate Starts for Rocksand_3:
(Start: 17 @1325 has 291 MA's), (34, 1427),

Gene: Rockstar_3 Start: 1283, Stop: 1603, Start Num: 17
Candidate Starts for Rockstar_3:
(Start: 17 @1283 has 291 MA's), (Start: 20 @1289 has 1 MA's), (55, 1583),

Gene: Roimos_3 Start: 1282, Stop: 1602, Start Num: 17
Candidate Starts for Roimos_3:
(Start: 17 @1282 has 291 MA's), (Start: 20 @1288 has 1 MA's), (34, 1384),

Gene: Romney_3 Start: 1325, Stop: 1639, Start Num: 17
Candidate Starts for Romney_3:
(Start: 17 @1325 has 291 MA's), (34, 1427),

Gene: Roosevelt_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Roosevelt_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Rosa24_2 Start: 1324, Stop: 1638, Start Num: 17
Candidate Starts for Rosa24_2:
(Start: 11 @1255 has 19 MA's), (Start: 17 @1324 has 291 MA's), (34, 1426),

Gene: Rosalind_6 Start: 3229, Stop: 3564, Start Num: 17
Candidate Starts for Rosalind_6:
(Start: 17 @3229 has 291 MA's), (52, 3484), (56, 3538),

Gene: Rowdy_4 Start: 1329, Stop: 1664, Start Num: 17
Candidate Starts for Rowdy_4:

(Start: 17 @1329 has 291 MA's), (Start: 20 @1335 has 1 MA's), (46, 1527), (52, 1593),

Gene: Ruin_3 Start: 1325, Stop: 1639, Start Num: 17
Candidate Starts for Ruin_3:
(Start: 11 @1256 has 19 MA's), (Start: 17 @1325 has 291 MA's), (34, 1427),

Gene: Rummer_3 Start: 1362, Stop: 1682, Start Num: 17
Candidate Starts for Rummer_3:
(Start: 17 @1362 has 291 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: Sabertooth_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Sabertooth_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Sabia_3 Start: 1362, Stop: 1682, Start Num: 17
Candidate Starts for Sabia_3:
(Start: 17 @1362 has 291 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: Sabinator_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for Sabinator_3:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: SaturnRing_2 Start: 1287, Stop: 1607, Start Num: 17
Candidate Starts for SaturnRing_2:
(Start: 17 @1287 has 291 MA's), (Start: 20 @1293 has 1 MA's), (34, 1389),

Gene: Scamp_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Scamp_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Scout_3 Start: 1280, Stop: 1600, Start Num: 17
Candidate Starts for Scout_3:
(Start: 17 @1280 has 291 MA's), (Start: 20 @1286 has 1 MA's), (34, 1382),

Gene: SenorClean_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for SenorClean_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Shaka_3 Start: 1257, Stop: 1640, Start Num: 11
Candidate Starts for Shaka_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Shapes_4 Start: 1329, Stop: 1664, Start Num: 17
Candidate Starts for Shapes_4:
(Start: 17 @1329 has 291 MA's), (Start: 20 @1335 has 1 MA's), (46, 1527), (52, 1593),

Gene: ShayRa_7 Start: 3229, Stop: 3564, Start Num: 17
Candidate Starts for ShayRa_7:
(Start: 17 @3229 has 291 MA's), (52, 3484), (56, 3538),

Gene: Sheen_3 Start: 1259, Stop: 1576, Start Num: 17
Candidate Starts for Sheen_3:
(12, 1217), (Start: 17 @1259 has 291 MA's), (24, 1295), (28, 1331), (52, 1499), (59, 1559),

Gene: SheldonCooper_3 Start: 1324, Stop: 1638, Start Num: 17
Candidate Starts for SheldonCooper_3:
(Start: 17 @1324 has 291 MA's), (34, 1426),

Gene: Shep_3 Start: 1280, Stop: 1600, Start Num: 17
Candidate Starts for Shep_3:
(Start: 17 @1280 has 291 MA's), (Start: 20 @1286 has 1 MA's), (34, 1382),

Gene: Shygu2_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Shygu2_3:
(14, 1299), (Start: 17 @1326 has 291 MA's), (24, 1365), (25, 1368), (34, 1428), (50, 1554),

Gene: Skadoosh_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Skadoosh_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Skipitt_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Skipitt_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Snickers_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for Snickers_3:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: SoYo_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for SoYo_3:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: SoilDragon_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for SoilDragon_3:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Soos_63 Start: 44235, Stop: 44597, Start Num: 13
Candidate Starts for Soos_63:
(Start: 13 @44235 has 6 MA's), (22, 44292), (33, 44358), (39, 44412), (48, 44499), (57, 44583),

Gene: Soshari_5 Start: 1362, Stop: 1682, Start Num: 17
Candidate Starts for Soshari_5:
(Start: 17 @1362 has 291 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: Soups_6 Start: 3229, Stop: 3564, Start Num: 17
Candidate Starts for Soups_6:
(Start: 17 @3229 has 291 MA's), (52, 3484), (56, 3538),

Gene: Sparxx_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Sparxx_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Spike509_3 Start: 1362, Stop: 1682, Start Num: 17
Candidate Starts for Spike509_3:
(Start: 17 @1362 has 291 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: Spino_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Spino_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Stagni_3 Start: 1362, Stop: 1682, Start Num: 17
Candidate Starts for Stagni_3:
(Start: 17 @1362 has 291 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: Stasia_3 Start: 1329, Stop: 1643, Start Num: 17
Candidate Starts for Stasia_3:
(15, 1314), (Start: 17 @1329 has 291 MA's), (24, 1368), (25, 1371), (34, 1431), (37, 1449),

Gene: SteMason_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for SteMason_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: StepMih_3 Start: 1362, Stop: 1682, Start Num: 17
Candidate Starts for StepMih_3:
(Start: 17 @1362 has 291 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: Stillion_66 Start: 44832, Stop: 45194, Start Num: 13
Candidate Starts for Stillion_66:
(6, 44613), (7, 44646), (Start: 13 @44832 has 6 MA's), (22, 44889), (33, 44955), (39, 45009), (48, 45096), (57, 45180),

Gene: Sting_66 Start: 44674, Stop: 45036, Start Num: 13
Candidate Starts for Sting_66:
(Start: 13 @44674 has 6 MA's), (22, 44731), (33, 44797), (39, 44851), (48, 44938), (57, 45022),

Gene: Stink_3 Start: 1320, Stop: 1634, Start Num: 17
Candidate Starts for Stink_3:
(14, 1293), (Start: 17 @1320 has 291 MA's), (34, 1422),

Gene: Strosahl_6 Start: 3082, Stop: 3417, Start Num: 17
Candidate Starts for Strosahl_6:
(Start: 17 @3082 has 291 MA's), (52, 3337), (56, 3391),

Gene: Sultana_3 Start: 1327, Stop: 1641, Start Num: 17
Candidate Starts for Sultana_3:
(Start: 11 @1258 has 19 MA's), (Start: 17 @1327 has 291 MA's), (34, 1429),

Gene: Switzerland_6 Start: 3229, Stop: 3564, Start Num: 17
Candidate Starts for Switzerland_6:
(Start: 17 @3229 has 291 MA's), (52, 3484), (56, 3538),

Gene: TNguyen7_3 Start: 1285, Stop: 1605, Start Num: 17
Candidate Starts for TNguyen7_3:
(Start: 17 @1285 has 291 MA's), (Start: 20 @1291 has 1 MA's), (34, 1387),

Gene: Taquarus_3 Start: 1329, Stop: 1643, Start Num: 17
Candidate Starts for Taquarus_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1329 has 291 MA's), (34, 1431),

Gene: Taurus_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for Taurus_3:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Texage_2 Start: 1308, Stop: 1628, Start Num: 17
Candidate Starts for Texage_2:
(Start: 17 @1308 has 291 MA's), (Start: 20 @1314 has 1 MA's),

Gene: Thanksgivukkah_3 Start: 1327, Stop: 1641, Start Num: 17
Candidate Starts for Thanksgivukkah_3:
(Start: 11 @1258 has 19 MA's), (Start: 17 @1327 has 291 MA's), (34, 1429),

Gene: Tiffany_3 Start: 1362, Stop: 1682, Start Num: 17
Candidate Starts for Tiffany_3:
(Start: 17 @1362 has 291 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: Timshel_3 Start: 1254, Stop: 1577, Start Num: 17
Candidate Starts for Timshel_3:
(Start: 17 @1254 has 291 MA's), (23, 1287), (24, 1290), (28, 1326), (32, 1344), (38, 1374), (40, 1401), (52, 1500), (59, 1560),

Gene: TinaFeyge_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for TinaFeyge_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: TinyPebbles_3 Start: 1362, Stop: 1682, Start Num: 17
Candidate Starts for TinyPebbles_3:
(Start: 17 @1362 has 291 MA's), (46, 1545), (54, 1650), (60, 1674),

Gene: Tinybot_2 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Tinybot_2:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: TiroTheta9_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for TiroTheta9_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Todacoro_3 Start: 1308, Stop: 1628, Start Num: 17
Candidate Starts for Todacoro_3:
(Start: 17 @1308 has 291 MA's), (Start: 20 @1314 has 1 MA's),

Gene: Tonitrus_54 Start: 41488, Stop: 41835, Start Num: 20
Candidate Starts for Tonitrus_54:
(19, 41485), (Start: 20 @41488 has 1 MA's), (25, 41527), (27, 41536), (30, 41569), (35, 41596), (39, 41635), (43, 41677), (44, 41680), (49, 41731), (53, 41800), (57, 41818),

Gene: Topanga_3 Start: 1371, Stop: 1706, Start Num: 17
Candidate Starts for Topanga_3:
(Start: 17 @1371 has 291 MA's), (21, 1392),

Gene: Toro_3 Start: 1258, Stop: 1575, Start Num: 17
Candidate Starts for Toro_3:
(12, 1216), (Start: 17 @1258 has 291 MA's), (24, 1294), (28, 1330), (52, 1498), (59, 1558),

Gene: TroyPia_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for TroyPia_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Twister_3 Start: 1321, Stop: 1656, Start Num: 17
Candidate Starts for Twister_3:
(Start: 17 @1321 has 291 MA's), (Start: 20 @1327 has 1 MA's), (52, 1585),

Gene: TygerBlood_3 Start: 1328, Stop: 1642, Start Num: 17
Candidate Starts for TygerBlood_3:
(Start: 11 @1259 has 19 MA's), (Start: 17 @1328 has 291 MA's), (34, 1430),

Gene: Ulysses_3 Start: 1327, Stop: 1641, Start Num: 17
Candidate Starts for Ulysses_3:
(Start: 11 @1258 has 19 MA's), (Start: 17 @1327 has 291 MA's), (34, 1429),

Gene: Veracruz_2 Start: 1308, Stop: 1628, Start Num: 17
Candidate Starts for Veracruz_2:
(Start: 17 @1308 has 291 MA's), (Start: 20 @1314 has 1 MA's),

Gene: Vix_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for Vix_3:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Waits_6 Start: 3081, Stop: 3416, Start Num: 17
Candidate Starts for Waits_6:
(Start: 17 @3081 has 291 MA's), (52, 3336), (56, 3390),

Gene: WalterMcMickey_3 Start: 1321, Stop: 1656, Start Num: 17
Candidate Starts for WalterMcMickey_3:
(Start: 17 @1321 has 291 MA's), (Start: 20 @1327 has 1 MA's), (52, 1585),

Gene: Wander_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Wander_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Warrior24_6 Start: 3085, Stop: 3420, Start Num: 17
Candidate Starts for Warrior24_6:
(Start: 17 @3085 has 291 MA's), (52, 3340), (56, 3394),

Gene: Watson_3 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for Watson_3:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Wilbur_3 Start: 1325, Stop: 1639, Start Num: 17
Candidate Starts for Wilbur_3:
(Start: 17 @1325 has 291 MA's), (34, 1427),

Gene: Wile_3 Start: 1327, Stop: 1641, Start Num: 17
Candidate Starts for Wile_3:
(14, 1300), (Start: 17 @1327 has 291 MA's), (24, 1366), (25, 1369), (34, 1429),

Gene: Wizard007_3 Start: 1328, Stop: 1642, Start Num: 17
Candidate Starts for Wizard007_3:
(Start: 11 @1259 has 19 MA's), (Start: 17 @1328 has 291 MA's), (34, 1430),

Gene: Wooldri_5 Start: 1361, Stop: 1681, Start Num: 17
Candidate Starts for Wooldri_5:
(Start: 17 @1361 has 291 MA's), (46, 1544), (54, 1649), (60, 1673),

Gene: Xena_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for Xena_3:
(14, 1299), (Start: 17 @1326 has 291 MA's), (24, 1365), (25, 1368), (34, 1428),

Gene: YoSam321_3 Start: 1326, Stop: 1640, Start Num: 17
Candidate Starts for YoSam321_3:
(Start: 11 @1257 has 19 MA's), (Start: 17 @1326 has 291 MA's), (34, 1428),

Gene: Zarafa_3 Start: 1280, Stop: 1600, Start Num: 17
Candidate Starts for Zarafa_3:
(Start: 17 @1280 has 291 MA's), (Start: 20 @1286 has 1 MA's), (34, 1382),

Gene: Zetzy_3 Start: 1363, Stop: 1683, Start Num: 17
Candidate Starts for Zetzy_3:
(Start: 17 @1363 has 291 MA's), (60, 1675),