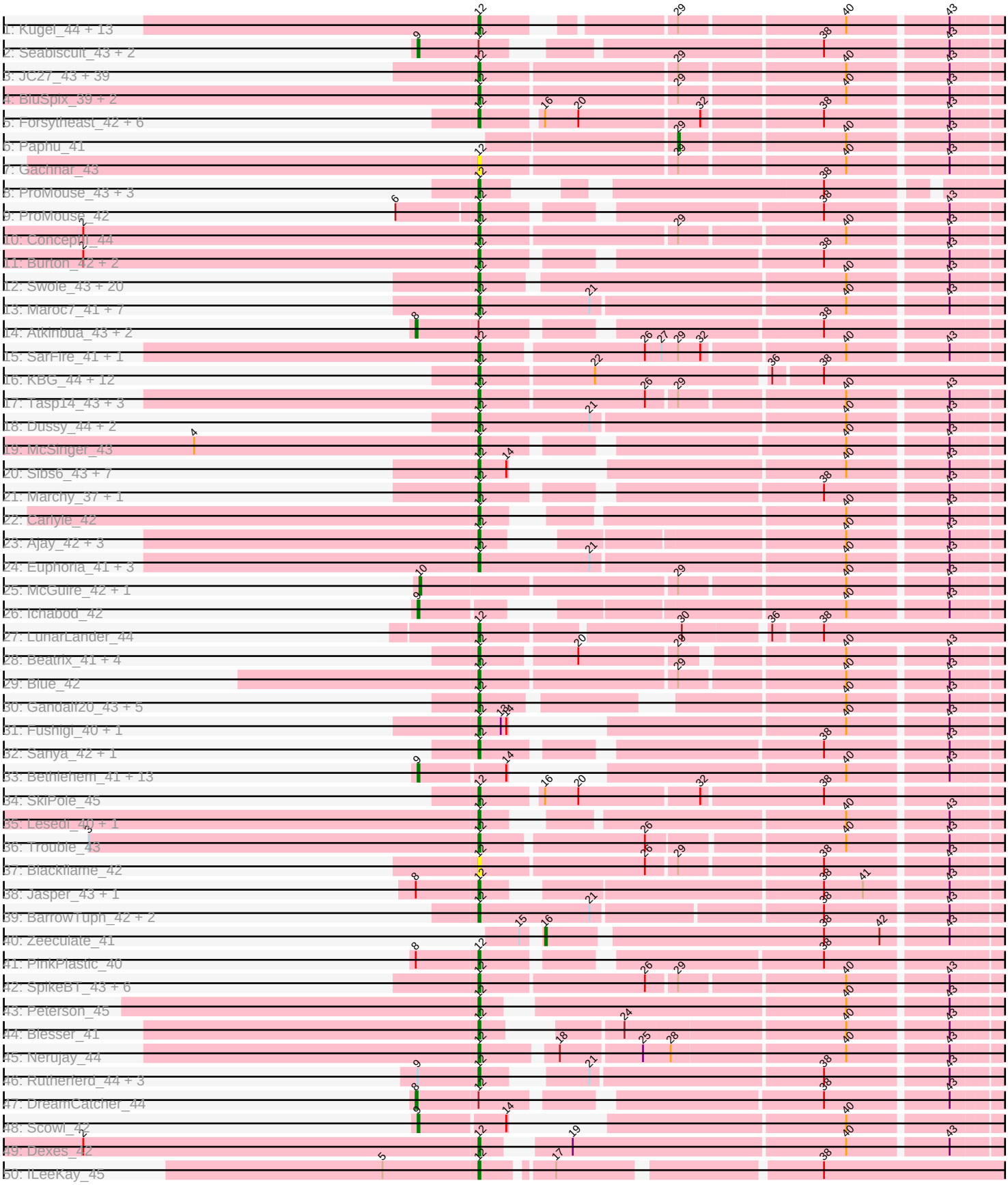
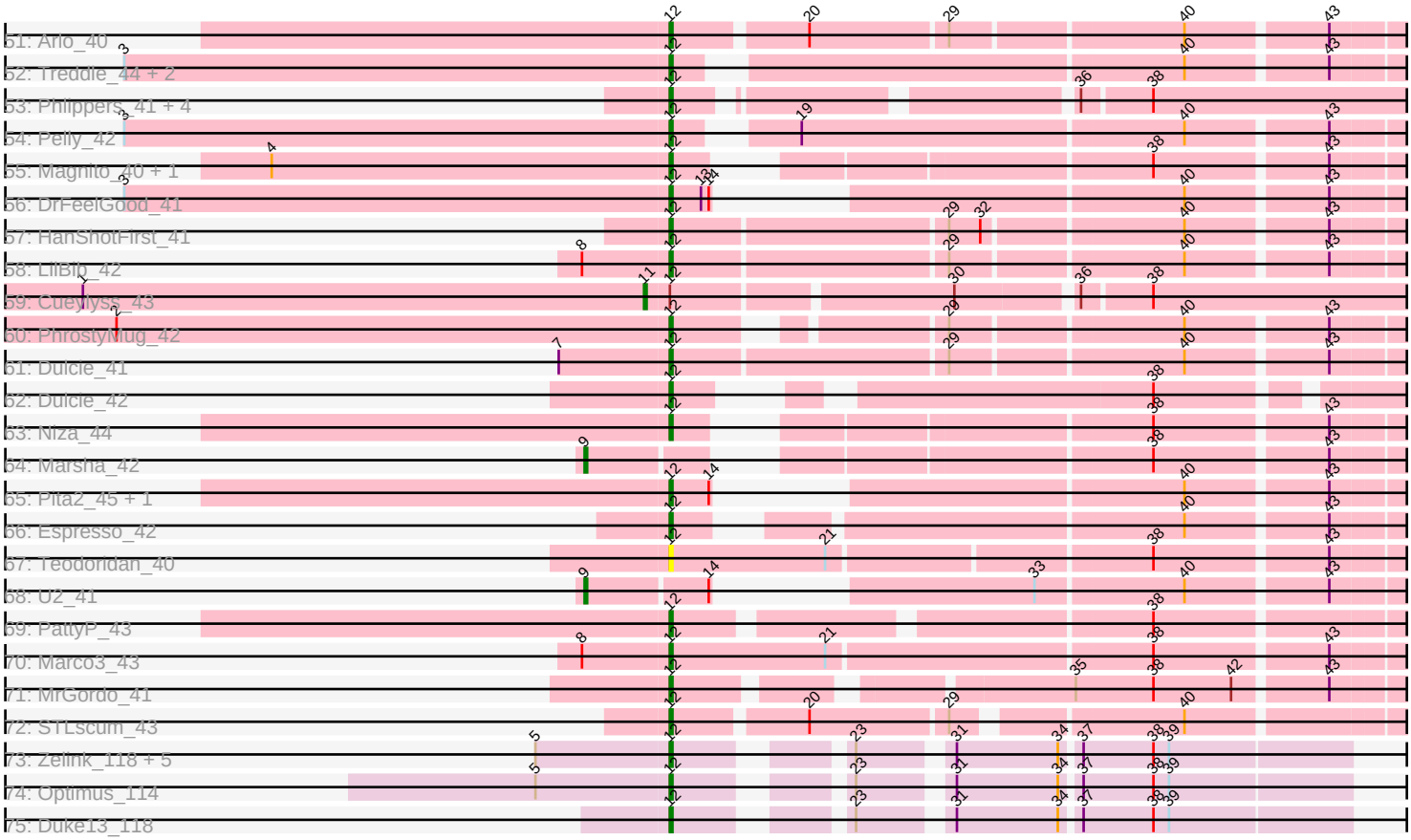
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1: Kugel_44 + 13
2: Seabiscuit_43 + 2
3: JC27_43 + 39
4: BluSpix_39 + 2
5: Forsytheast_42 + 6
6: Paphu_41
7: Gachnar_43
8: ProMouse_43 + 3
9: ProMouse_42
10: Concept1_44
11: Burton_42 + 2
12: Swole_43 + 20
13: Maroc7_41 + 7
14: Atkinbua_43 + 2
15: SarFire_41 + 1
16: KBG_44 + 12
17: Tasp14_43 + 3
18: Dussy_44 + 2
19: McSinger_43
20: Sibs6_43 + 7
21: Marchy_37 + 1
22: Carlyle_42
23: Ajay_42 + 3
24: Euphoria_41 + 3
25: McGuire_42 + 1
26: Ichabod_42
27: LunarLander_44
28: Beatrix_41 + 4
29: Blue_42
30: Gandalf20_43 + 5
31: Fushigi_40 + 1
32: Sanya_42 + 1
33: Bethlehem_41 + 13
34: SkiPole_45
35: Lesedi_40 + 1
36: Trouble_43
37: Blackflame_42
38: Jasper_43 + 1
39: BarrowTuph_42 + 2
40: Zeeculate_41
41: PinkPlastic_40
42: SpikeBT_43 + 6
43: Peterson_45
44: Blesser_41
45: Nerujay_44
46: Ruthenerd_44 + 3
47: DreamCatcher_44
48: Scowl_42
49: Dexes_42
50: LeeKay_45

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51: Arlo_40
52: Treddie_44 + 2
53: Philippers_41 + 4
54: Pelly_42
55: Magnito_40 + 1
56: DrFeelGood_41
57: HanShotFirst_41
58: LilBit_42
59: Cuellyss_43
60: PhrostyMug_42
61: Dulcie_41
62: Dulcie_42
63: Niza_44
64: Marsha_42
65: Pita2_45 + 1
66: Espresso_42
67: Teodoridan_40
68: U2_41
69: PattyP_43
70: Marco3_43
71: MrGordo_41
72: STLscum_43
73: Zellnk_118 + 5
74: Optimus_114
75: Duke13_118

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 347217 Report

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

Pham number 347217 has 254 members, 14 are drafts.

Phages represented in each track:
• Track 1 : Kugel_44, Wheeler_43, Naira_43, Fajezeel_44, Greg_44, EnzoK_41, Zephyr_42, Buttons_41, Ohno789_43, Violet_40, Fenn_43, Acme_45, Pippin_44, Ciao_42
• Track 2 : Seabiscuit_43, BeesKnees_42, Dynamix_42
• Track 3 : JC27_43, Mkhuseli_42, GrecoEtereo_43, Hermia_44, DirtDevil_43, StrongArm_41, MaryBeth_42, Ashballer_44, Bexan_40, Inyanga_40, Perseus_43, Applejack_38, CartmannCramer_42, GroundGoblin_43, HarryOW_41, CatBus_43, PowerRanger_43, Papez_44, A6_39, Aeneas_44, Squee_42, Bxb1_39, BK1_39, Sunshine924_43, KikiBouba_44, QTRlifeCrisis_43, Abrogate_420, Hami1_37, Noxious_44, Aldrich_43, Mule_40, Gyzlar_39, Iqorha_40, MetalQZJ_41, RidgeCB_42, Whitspit_40, StewieG_40, Zeuska_42, Magnar_41, Watermelon_44
• Track 4 : BluSpix_39, Traft412_43, IgnatiusPatJac_41
• Track 5 : Forsytheast_42, Corvo_43, SwissCheese_44, GMonster_40, Bruns_41, Alsfro_46, Moose_42
• Track 6 : Paphu_41
• Track 7 : Gachnar_43
• Track 8 : ProMouse_43, Kanely_43, Altman_44, PherrisBueller_42
• Track 9 : ProMouse_42
• Track 10 : ConceptII_44
• Track 11 : Burton_42, Museum_43, Petp2012_43
• Track 12 : Swole_43, ILeeKay_46, Bigchungi_41, Alvin_41, Marcell_41, Marge_42, Rohr_43, Pinto_43, JuliaChild_43, Jerm2_43, Bob3_40, Crispicous1_41, BigMau_43, Lopton_43, Tote_38, Rufus_43, Froghopper_41, Petruchio_42, Molly_43, MPlant7149_41, HermioneGrange_42
• Track 13 : Maroc7_41, Bigfoot_39, CactusRose_40, Raid_42, Solon_42, Rubeus_42, Pepe_39, Ruotula_44
• Track 14 : Atkinbua_43, PascalRango_42, Briton15_43
• Track 15 : SarFire_41, Thor_41
• Track 16 : KBG_44, Bones_42, BigPaolini_42, Agaliana_39, Doom_43, Graduation_45, Puppet_43, PacerPaul_43, ChristmasHams_39, Eyeball_43, Licorice_45, Francis47_42, Smairt_44
• Track 17 : Tasp14_43, Lamina13_42, Monet_46, Homines_35
• Track 18 : Dussy_44, Abbyshoes_45, Kenmech_46
• Track 19 : McSinger_43
• Track 20 : Sibs6_43, Oogway_40, Makemake_42, Gwendoluna_44, Jorgensen_42, JackSparrow_44, Parliament_41, Adahisdi_42
• Track 21 : Marchy_37, Payneful_42

• Track 22 : Carlyle_42
• Track 23 : Ajay_42, AFIS_41, Sumter_40, Kykar_42
• Track 24 : Euphoria_41, KyMonks1A_45, Target_43, NEHalo_41
• Track 25 : McGuire_42, KSSJEB_40
• Track 26 : Ichabod_42
• Track 27 : LunarLander_44
• Track 28 : Beatrix_41, Sandaddy_42, BPBiebs31_43, Mryolo_40, Sorpresa_42
• Track 29 : Blue_42
• Track 30 : Gandalf20_43, Lockley_42, Killigrew_42, Snazzy_40, ShortQueendom_38, DD5_42
• Track 31 : Fushigi_40, BillKnuckles_42
• Track 32 : Sanya_42, Chanagan_40
• Track 33 : Bethlehem_41, Pari_42, Nhonho_42, Switzer_42, Slagathor_42, Hope4ever_43, Manatee_42, Barriga_42, Tripl3t_42, Rhynn_41, Anglerfish_42, Rajelicia_41, Arcanine_41, TwoPeat_42
• Track 34 : SkiPole_45
• Track 35 : Lesedi_40, Big3_41
• Track 36 : Trouble_43
• Track 37 : Blackflame_42
• Track 38 : Jasper_43, Dreamboat_43
• Track 39 : BarrowTuph_42, PhineBark_41, Levia_39
• Track 40 : Zeeculate_41
• Track 41 : PinkPlastic_40
• Track 42 : SpikeBT_43, TheloniousMonk_43, Norz_43, BaconJack_45, Seanderson_44, Michley_41, GageAP_43
• Track 43 : Peterson_45
• Track 44 : Blesser_41
• Track 45 : Nerujay_44
• Track 46 : Rutherferd_44, Paraselene_40, MilleFeuille_41, Sagefire_44
• Track 47 : DreamCatcher_44
• Track 48 : Scowl_42
• Track 49 : Dexes_42
• Track 50 : ILeeKay_45
• Track 51 : Arlo_40
• Track 52 : Treddle_44, Edtherson_43, Ringer_43
• Track 53 : Phlippers_41, Gompeii16_42, Wilkins_42, Topgun_42, Bircsak_42
• Track 54 : Pelly_42
• Track 55 : Magnito_40, Turj99_40
• Track 56 : DrFeelGood_41
• Track 57 : HanShotFirst_41
• Track 58 : LilBib_42
• Track 59 : Cueylyss_43
• Track 60 : PhrostyMug_42
• Track 61 : Dulcie_41
• Track 62 : Dulcie_42
• Track 63 : Niza_44
• Track 64 : Marsha_42
• Track 65 : Pita2_45, PSullivan_42
• Track 66 : Espresso_42
• Track 67 : Teodoridan_40
• Track 68 : U2_41
• Track 69 : PattyP_43
• Track 70 : Marco3_43

• Track 71 : MrGordo_41
• Track 72 : STLscum_43
• Track 73 : Zelink_118, EricMillard_115, Minerva_121, ThreeRngTarjay_119, BAKA_123, Hughesyang_123
• Track 74 : Optimus_114
• Track 75 : Duke13_118

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

The start number called the most often in the published annotations is 12, it was called in 210 of the 240 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• A6_39, AFIS_41, Abbyshoes_45, Abrogate_420, Acme_45, Adahisdi_42, Aeneas_44, Agaliana_39, Ajay_42, Aldrich_43, Alsfro_46, Altman_44, Alvin_41, Applejack_38, Arlo_40, Ashballer_44, BAKA_123, BK1_39, BPBiebs31_43, BaconJack_45, BarrowTuph_42, Beatrix_41, Bexan_40, Big3_41, BigMau_43, BigPaolini_42, Bigchungi_41, Bigfoot_39, BillKnuckles_42, Bircsak_42, Blackflame_42, Blesser_41, BluSpix_39, Blue_42, Bob3_40, Bones_42, Bruns_41, Burton_42, Buttons_41, Bxb1_39, CactusRose_40, Carlyle_42, CartmannCramer_42, CatBus_43, Chanagan_40, ChristmasHams_39, Ciao_42, ConceptII_44, Corvo_43, Crispicous1_41, DD5_42, Dexes_42, DirtDevil_43, Doom_43, DrFeelGood_41, Dreamboat_43, Duke13_118, Dulcie_41, Dulcie_42, Dussy_44, Edtherson_43, EnzoK_41, EricMillard_115, Espresso_42, Euphoria_41, Eyeball_43, Fajezeel_44, Fenn_43, Forsytheast_42, Francis47_42, Froghopper_41, Fushigi_40, GMonster_40, Gachnar_43, GageAP_43, Gandalf20_43, Gompeii16_42, Graduation_45, GrecoEtereo_43, Greg_44, GroundGoblin_43, Gwendoluna_44, Gyzlar_39, Hami1_37, HanShotFirst_41, HarryOW_41, Hermia_44, HermioneGrange_42, Homines_35, Hughesyang_123, ILeeKay_45, ILeeKay_46, IgnatiusPatJac_41, Inyanga_40, Iqorha_40, JC27_43, JackSparrow_44, Jasper_43, Jerm2_43, Jorgensen_42, JuliaChild_43, KBG_44, Kanely_43, Kenmech_46, KikiBouba_44, Killigrew_42, Kugel_44, KyMonks1A_45, Kykar_42, Lamina13_42, Lesedi_40, Levia_39, Licorice_45, LilBib_42, Lockley_42, Lopton_43, LunarLander_44, MPlant7149_41, Magnar_41, Magnito_40, Makemake_42, Marcell_41, Marchy_37, Marco3_43, Marge_42, Maroc7_41, MaryBeth_42, McSinger_43, MetalQZJ_41, Michley_41, MilleFeuille_41, Minerva_121, Mkhuseli_42, Molly_43, Monet_46, Moose_42, MrGordo_41, Mryolo_40, Mule_40, Museum_43, NEHalo_41, Naira_43, Nerujay_44, Niza_44, Norz_43, Noxious_44, Ohno789_43, Oogway_40, Optimus_114, PSullivan_42, PacerPaul_43, Papez_44, Paraselene_40, Parliament_41, PattyP_43, Payneful_42, Pelly_42, Pepe_39, Perseus_43, Peterson_45, Petp2012_43, Petruchio_42, PherrisBueller_42, PhineBark_41, Phlippers_41, PhrostyMug_42, PinkPlastic_40, Pinto_43, Pippin_44, Pita2_45, PowerRanger_43, ProMouse_42, ProMouse_43, Puppet_43, QTRlifeCrisis_43, Raid_42, RidgeCB_42, Ringer_43, Rohr_43, Rubeus_42, Rufus_43, Ruotula_44, Rutherferd_44, STLscum_43, Sagefire_44, Sandaddy_42, Sanya_42, SarFire_41, Seanderson_44, ShortQueendom_38, Sibs6_43, SkiPole_45, Smairt_44, Snazzy_40, Solon_42, Sorpresa_42, SpikeBT_43, Squee_42, StewieG_40, StrongArm_41, Sumter_40, Sunshine924_43, SwissCheese_44, Swole_43, Target_43, Tasp14_43, Teodoridan_40, TheloniousMonk_43, Thor_41, ThreeRngTarjay_119, Topgun_42, Tote_38, Traft412_43, Treddle_44, Trouble_43, Turj99_40, Violet_40,

Watermelon_44, Wheeler_43, Whitspit_40, Wilkins_42, Zelink_118, Zephyr_42, Zeuska_42,

Genes that have the "Most Annotated" start but do not call it:
• Atkinbua_43, BeesKnees_42, Briton15_43, Cueylyss_43, DreamCatcher_44, Dynamix_42, PascalRango_42, Seabiscuit_43,

Genes that do not have the "Most Annotated" start:
• Anglerfish_42, Arcanine_41, Barriga_42, Bethlehem_41, Hope4ever_43, Ichabod_42, KSSJEB_40, Manatee_42, Marsha_42, McGuire_42, Nhonho_42, Paphu_41, Pari_42, Rajelicia_41, Rhynn_41, Scowl_42, Slagathor_42, Switzer_42, Tripl3t_42, TwoPeat_42, U2_41, Zeeculate_41,

Summary by start number:

Start 8:
• Found in 9 of 254 (3.5%) of genes in pham
• Manual Annotations of this start: 4 of 240
• Called 44.4% of time when present
• Phage (with cluster) where this start called: Atkinbua_43 (A1), Briton15_43 (A1), DreamCatcher_44 (A1), PascalRango_42 (A1),

Start 9:
• Found in 25 of 254 (9.8%) of genes in pham
• Manual Annotations of this start: 21 of 240
• Called 84.0% of time when present
• Phage (with cluster) where this start called: Anglerfish_42 (A1), Arcanine_41 (A1), Barriga_42 (A1), BeesKnees_42 (A1), Bethlehem_41 (A1), Dynamix_42 (A1), Hope4ever_43 (A1), Ichabod_42 (A1), Manatee_42 (A1), Marsha_42 (A1), Nhonho_42 (A1), Pari_42 (A1), Rajelicia_41 (A1), Rhynn_41 (A1), Scowl_42 (A1), Seabiscuit_43 (A1), Slagathor_42 (A1), Switzer_42 (A1), Tripl3t_42 (A1), TwoPeat_42 (A1), U2_41 (A1),

Start 10:
• Found in 2 of 254 (0.8%) of genes in pham
• Manual Annotations of this start: 2 of 240
• Called 100.0% of time when present
• Phage (with cluster) where this start called: KSSJEB_40 (A1), McGuire_42 (A1),

Start 11:
• Found in 1 of 254 (0.4%) of genes in pham
• Manual Annotations of this start: 1 of 240
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cueylyss_43 (A1),

Start 12:
• Found in 232 of 254 (91.3%) of genes in pham
• Manual Annotations of this start: 210 of 240
• Called 96.6% of time when present
• Phage (with cluster) where this start called: A6_39 (A1), AFIS_41 (A1), Abbyshoes_45 (A1), Abrogate_420 (A1), Acme_45 (A1), Adahisdi_42 (A1), Aeneas_44 (A1), Agaliana_39 (A1), Ajay_42 (A1), Aldrich_43 (A1), Alsfro_46 (A1), Altman_44 (A1), Alvin_41 (A1), Applejack_38 (A1), Arlo_40 (A1), Ashballer_44 (A1),

BAKA_123 (J), BK1_39 (A1), BPBiebs31_43 (A1), BaconJack_45 (A1), BarrowTuph_42 (A1), Beatrix_41 (A1), Bexan_40 (A1), Big3_41 (A1), BigMau_43 (A1), BigPaolini_42 (A1), Bigchungi_41 (A1), Bigfoot_39 (A1), BillKnuckles_42 (A1), Bircsak_42 (A1), Blackflame_42 (A1), Blesser_41 (A1), BluSpix_39 (A1), Blue_42 (A1), Bob3_40 (A1), Bones_42 (A1), Bruns_41 (A1), Burton_42 (A1), Buttons_41 (A1), Bxb1_39 (A1), CactusRose_40 (A1), Carlyle_42 (A1), CartmannCramer_42 (A1), CatBus_43 (A1), Chanagan_40 (A1), ChristmasHams_39 (A1), Ciao_42 (A1), ConceptII_44 (A1), Corvo_43 (A1), Crispicous1_41 (A1), DD5_42 (A1), Dexes_42 (A1), DirtDevil_43 (A1), Doom_43 (A1), DrFeelGood_41 (A1), Dreamboat_43 (A1), Duke13_118 (J), Dulcie_41 (A1), Dulcie_42 (A1), Dussy_44 (A1), Edtherson_43 (A1), EnzoK_41 (A1), EricMillard_115 (J), Espresso_42 (A1), Euphoria_41 (A1), Eyeball_43 (A1), Fajezeel_44 (A1), Fenn_43 (A1), Forsytheast_42 (A1), Francis47_42 (A1), Froghopper_41 (A1), Fushigi_40 (A1), GMonster_40 (A1), Gachnar_43 (A1), GageAP_43 (A1), Gandalf20_43 (A1), Gompeii16_42 (A1), Graduation_45 (A1), GrecoEtereo_43 (A1), Greg_44 (A1), GroundGoblin_43 (A1), Gwendoluna_44 (A1), Gyzlar_39 (A1), Hami1_37 (A1), HanShotFirst_41 (A1), HarryOW_41 (A1), Hermia_44 (A1), HermioneGrange_42 (A1), Homines_35 (A1), Hughesyang_123 (J), ILeeKay_45 (A1), ILeeKay_46 (A1), IgnatiusPatJac_41 (A1), Inyanga_40 (A1), Iqorha_40 (A1), JC27_43 (A1), JackSparrow_44 (A1), Jasper_43 (A1), Jerm2_43 (A1), Jorgensen_42 (A1), JuliaChild_43 (A1), KBG_44 (A1), Kanely_43 (A1), Kenmech_46 (A1), KikiBouba_44 (A1), Killigrew_42 (A1), Kugel_44 (A1), KyMonks1A_45 (A1), Kykar_42 (A1), Lamina13_42 (A1), Lesedi_40 (A1), Levia_39 (A1), Licorice_45 (A1), LilBib_42 (A1), Lockley_42 (A1), Lopton_43 (A1), LunarLander_44 (A1), MPlant7149_41 (A1), Magnar_41 (A1), Magnito_40 (A1), Makemake_42 (A1), Marcell_41 (A1), Marchy_37 (A1), Marco3_43 (A1), Marge_42 (A1), Maroc7_41 (A1), MaryBeth_42 (A1), McSinger_43 (A1), MetalQZJ_41 (A1), Michley_41 (A1), MilleFeuille_41 (A1), Minerva_121 (J), Mkhuseli_42 (A1), Molly_43 (A1), Monet_46 (A1), Moose_42 (A1), MrGordo_41 (A1), Mryolo_40 (A1), Mule_40 (A1), Museum_43 (A1), NEHalo_41 (A1), Naira_43 (A1), Nerujay_44 (A1), Niza_44 (A1), Norz_43 (A1), Noxious_44 (A1), Ohno789_43 (A1), Oogway_40 (A1), Optimus_114 (J), PSullivan_42 (A1), PacerPaul_43 (A1), Papez_44 (A1), Paraselene_40 (A1), Parliament_41 (A1), PattyP_43 (A1), Payneful_42 (A1), Pelly_42 (A1), Pepe_39 (A1), Perseus_43 (A1), Peterson_45 (A1), Petp2012_43 (A1), Petruchio_42 (A1), PherrisBueller_42 (A1), PhineBark_41 (A1), Phlippers_41 (A1), PhrostyMug_42 (A1), PinkPlastic_40 (A1), Pinto_43 (A1), Pippin_44 (A1), Pita2_45 (A1), PowerRanger_43 (A1), ProMouse_42 (A1), ProMouse_43 (A1), Puppet_43 (A1), QTRlifeCrisis_43 (A1), Raid_42 (A1), RidgeCB_42 (A1), Ringer_43 (A1), Rohr_43 (A1), Rubeus_42 (A1), Rufus_43 (A1), Ruotula_44 (A1), Rutherferd_44 (A1), STLscum_43 (A1), Sagefire_44 (A1), Sandaddy_42 (A1), Sanya_42 (A1), SarFire_41 (A1), Seanderson_44 (A1), ShortQueendom_38 (A1), Sibs6_43 (A1), SkiPole_45 (A1), Smairt_44 (A1), Snazzy_40 (A1), Solon_42 (A1), Sorpresa_42 (A1), SpikeBT_43 (A1), Squee_42 (A1), StewieG_40 (A1), StrongArm_41 (A1), Sumter_40 (A1), Sunshine924_43 (A1), SwissCheese_44 (A1), Swole_43 (A1), Target_43 (A1), Tasp14_43 (A1), Teodoridan_40 (A1), TheloniousMonk_43 (A1), Thor_41 (A1), ThreeRngTarjay_119 (J), Topgun_42 (A1), Tote_38 (A1), Traft412_43 (A1), Treddle_44 (A1), Trouble_43 (A1), Turj99_40 (A1), Violet_40 (A1), Watermelon_44 (A1), Wheeler_43 (A1), Whitspit_40 (A1), Wilkins_42 (A1), Zelink_118 (J), Zephyr_42 (A1), Zeuska_42 (A1),

Start 16:
• Found in 9 of 254 (3.5%) of genes in pham
• Manual Annotations of this start: 1 of 240
• Called 11.1% of time when present

• Phage (with cluster) where this start called: Zeeculate_41 (A1),

Start 29:
• Found in 88 of 254 (34.6%) of genes in pham
• Manual Annotations of this start: 1 of 240
• Called 1.1% of time when present
• Phage (with cluster) where this start called: Paphu_41 (A1),

Summary by clusters:

There are 2 clusters represented in this pham: A1, J,

Info for manual annotations of cluster A1:
•Start number 8 was manually annotated 4 times for cluster A1.
•Start number 9 was manually annotated 21 times for cluster A1.
•Start number 10 was manually annotated 2 times for cluster A1.
•Start number 11 was manually annotated 1 time for cluster A1.
•Start number 12 was manually annotated 202 times for cluster A1.
•Start number 16 was manually annotated 1 time for cluster A1.
•Start number 29 was manually annotated 1 time for cluster A1.

Info for manual annotations of cluster J:
•Start number 12 was manually annotated 8 times for cluster J.

Gene Information:

Gene: A6_39 Start: 31351, Stop: 31064, Start Num: 12
Candidate Starts for A6_39:
(Start: 12 @31351 has 210 MA's), (Start: 29 @31249 has 1 MA's), (40, 31165), (43, 31114),

Gene: AFIS_41 Start: 32120, Stop: 31854, Start Num: 12
Candidate Starts for AFIS_41:
(Start: 12 @32120 has 210 MA's), (40, 31955), (43, 31904),

Gene: Abbyshoes_45 Start: 32556, Stop: 32263, Start Num: 12
Candidate Starts for Abbyshoes_45:
(Start: 12 @32556 has 210 MA's), (21, 32496), (40, 32364), (43, 32313),

Gene: Abrogate_420 Start: 32810, Stop: 32541, Start Num: 12
Candidate Starts for Abrogate_420:
(Start: 12 @32810 has 210 MA's), (Start: 29 @32726 has 1 MA's), (40, 32642), (43, 32591),

Gene: Acme_45 Start: 32668, Stop: 32381, Start Num: 12
Candidate Starts for Acme_45:
(Start: 12 @32668 has 210 MA's), (Start: 29 @32566 has 1 MA's), (40, 32482), (43, 32431),

Gene: Adahisdi_42 Start: 32146, Stop: 31904, Start Num: 12
Candidate Starts for Adahisdi_42:
(Start: 12 @32146 has 210 MA's), (14, 32131), (40, 32005), (43, 31954),

Gene: Aeneas_44 Start: 32342, Stop: 32055, Start Num: 12

Candidate Starts for Aeneas_44:
(Start: 12 @32342 has 210 MA's), (Start: 29 @32240 has 1 MA's), (40, 32156), (43, 32105),

Gene: Agaliana_39 Start: 29400, Stop: 29104, Start Num: 12
Candidate Starts for Agaliana_39:
(Start: 12 @29400 has 210 MA's), (22, 29340), (36, 29250), (38, 29226),

Gene: Ajay_42 Start: 31958, Stop: 31695, Start Num: 12
Candidate Starts for Ajay_42:
(Start: 12 @31958 has 210 MA's), (40, 31796), (43, 31745),

Gene: Aldrich_43 Start: 33154, Stop: 32867, Start Num: 12
Candidate Starts for Aldrich_43:
(Start: 12 @33154 has 210 MA's), (Start: 29 @33052 has 1 MA's), (40, 32968), (43, 32917),

Gene: Alsfro_46 Start: 32728, Stop: 32444, Start Num: 12
Candidate Starts for Alsfro_46:
(Start: 12 @32728 has 210 MA's), (Start: 16 @32698 has 1 MA's), (20, 32680), (32, 32617), (38, 32557), (43, 32494),

Gene: Altman_44 Start: 32975, Stop: 32700, Start Num: 12
Candidate Starts for Altman_44:
(Start: 12 @32975 has 210 MA's), (38, 32813),

Gene: Alvin_41 Start: 32479, Stop: 32210, Start Num: 12
Candidate Starts for Alvin_41:
(Start: 12 @32479 has 210 MA's), (40, 32311), (43, 32260),

Gene: Anglerfish_42 Start: 32229, Stop: 31957, Start Num: 9
Candidate Starts for Anglerfish_42:
(Start: 9 @32229 has 21 MA's), (14, 32184), (40, 32058), (43, 32007),

Gene: Applejack_38 Start: 29040, Stop: 28771, Start Num: 12
Candidate Starts for Applejack_38:
(Start: 12 @29040 has 210 MA's), (Start: 29 @28956 has 1 MA's), (40, 28872), (43, 28821),

Gene: Arcanine_41 Start: 31349, Stop: 31077, Start Num: 9
Candidate Starts for Arcanine_41:
(Start: 9 @31349 has 21 MA's), (14, 31304), (40, 31178), (43, 31127),

Gene: Arlo_40 Start: 31869, Stop: 31585, Start Num: 12
Candidate Starts for Arlo_40:
(Start: 12 @31869 has 210 MA's), (20, 31821), (Start: 29 @31770 has 1 MA's), (40, 31686), (43, 31635),

Gene: Ashballer_44 Start: 33124, Stop: 32837, Start Num: 12
Candidate Starts for Ashballer_44:
(Start: 12 @33124 has 210 MA's), (Start: 29 @33022 has 1 MA's), (40, 32938), (43, 32887),

Gene: Atkinbua_43 Start: 32341, Stop: 32033, Start Num: 8
Candidate Starts for Atkinbua_43:
(Start: 8 @32341 has 4 MA's), (Start: 12 @32308 has 210 MA's), (38, 32146),

Gene: BAKA_123 Start: 68103, Stop: 68330, Start Num: 12
Candidate Starts for BAKA_123:
(5, 68052), (Start: 12 @68103 has 210 MA's), (23, 68154), (31, 68184), (34, 68223), (37, 68229), (38, 68256), (39, 68262),

Gene: BK1_39 Start: 31351, Stop: 31064, Start Num: 12
Candidate Starts for BK1_39:
(Start: 12 @31351 has 210 MA's), (Start: 29 @31249 has 1 MA's), (40, 31165), (43, 31114),

Gene: BPBiebs31_43 Start: 32462, Stop: 32184, Start Num: 12
Candidate Starts for BPBiebs31_43:
(Start: 12 @32462 has 210 MA's), (20, 32414), (Start: 29 @32363 has 1 MA's), (40, 32285), (43, 32234),

Gene: BaconJack_45 Start: 33097, Stop: 32810, Start Num: 12
Candidate Starts for BaconJack_45:
(Start: 12 @33097 has 210 MA's), (26, 33010), (Start: 29 @32995 has 1 MA's), (40, 32911), (43, 32860),

Gene: Barriga_42 Start: 31831, Stop: 31559, Start Num: 9
Candidate Starts for Barriga_42:
(Start: 9 @31831 has 21 MA's), (14, 31786), (40, 31660), (43, 31609),

Gene: BarrowTuph_42 Start: 32304, Stop: 32014, Start Num: 12
Candidate Starts for BarrowTuph_42:
(Start: 12 @32304 has 210 MA's), (21, 32244), (38, 32127), (43, 32064),

Gene: Beatrix_41 Start: 33308, Stop: 33030, Start Num: 12
Candidate Starts for Beatrix_41:
(Start: 12 @33308 has 210 MA's), (20, 33260), (Start: 29 @33209 has 1 MA's), (40, 33131), (43, 33080),

Gene: BeesKnees_42 Start: 31917, Stop: 31615, Start Num: 9
Candidate Starts for BeesKnees_42:
(Start: 9 @31917 has 21 MA's), (Start: 12 @31884 has 210 MA's), (38, 31728), (43, 31665),

Gene: Bethlehem_41 Start: 32590, Stop: 32318, Start Num: 9
Candidate Starts for Bethlehem_41:
(Start: 9 @32590 has 21 MA's), (14, 32545), (40, 32419), (43, 32368),

Gene: Bexan_40 Start: 32987, Stop: 32718, Start Num: 12
Candidate Starts for Bexan_40:
(Start: 12 @32987 has 210 MA's), (Start: 29 @32903 has 1 MA's), (40, 32819), (43, 32768),

Gene: Big3_41 Start: 32438, Stop: 32196, Start Num: 12
Candidate Starts for Big3_41:
(Start: 12 @32438 has 210 MA's), (40, 32297), (43, 32246),

Gene: BigMau_43 Start: 31979, Stop: 31692, Start Num: 12
Candidate Starts for BigMau_43:
(Start: 12 @31979 has 210 MA's), (40, 31793), (43, 31742),

Gene: BigPaolini_42 Start: 30984, Stop: 30688, Start Num: 12

Candidate Starts for BigPaolini_42:
(Start: 12 @30984 has 210 MA's), (22, 30924), (36, 30834), (38, 30810),

Gene: Bigchungi_41 Start: 31571, Stop: 31308, Start Num: 12
Candidate Starts for Bigchungi_41:
(Start: 12 @31571 has 210 MA's), (40, 31409), (43, 31358),

Gene: Bigfoot_39 Start: 31627, Stop: 31334, Start Num: 12
Candidate Starts for Bigfoot_39:
(Start: 12 @31627 has 210 MA's), (21, 31567), (40, 31435), (43, 31384),

Gene: BillKnuckles_42 Start: 32660, Stop: 32418, Start Num: 12
Candidate Starts for BillKnuckles_42:
(Start: 12 @32660 has 210 MA's), (13, 32648), (14, 32645), (40, 32519), (43, 32468),

Gene: Bircsak_42 Start: 32977, Stop: 32699, Start Num: 12
Candidate Starts for Bircsak_42:
(Start: 12 @32977 has 210 MA's), (36, 32845), (38, 32821),

Gene: Blackflame_42 Start: 31679, Stop: 31392, Start Num: 12
Candidate Starts for Blackflame_42:
(Start: 12 @31679 has 210 MA's), (26, 31592), (Start: 29 @31577 has 1 MA's), (38, 31505), (43, 31442),

Gene: Blesser_41 Start: 32354, Stop: 32091, Start Num: 12
Candidate Starts for Blesser_41:
(Start: 12 @32354 has 210 MA's), (24, 32306), (40, 32192), (43, 32141),

Gene: BluSpix_39 Start: 28079, Stop: 27792, Start Num: 12
Candidate Starts for BluSpix_39:
(Start: 12 @28079 has 210 MA's), (Start: 29 @27977 has 1 MA's), (40, 27893), (43, 27842),

Gene: Blue_42 Start: 32763, Stop: 32476, Start Num: 12
Candidate Starts for Blue_42:
(Start: 12 @32763 has 210 MA's), (Start: 29 @32661 has 1 MA's), (40, 32577), (43, 32526),

Gene: Bob3_40 Start: 31329, Stop: 31042, Start Num: 12
Candidate Starts for Bob3_40:
(Start: 12 @31329 has 210 MA's), (40, 31143), (43, 31092),

Gene: Bones_42 Start: 32480, Stop: 32184, Start Num: 12
Candidate Starts for Bones_42:
(Start: 12 @32480 has 210 MA's), (22, 32420), (36, 32330), (38, 32306),

Gene: Briton15_43 Start: 32176, Stop: 31868, Start Num: 8
Candidate Starts for Briton15_43:
(Start: 8 @32176 has 4 MA's), (Start: 12 @32143 has 210 MA's), (38, 31981),

Gene: Bruns_41 Start: 32058, Stop: 31774, Start Num: 12
Candidate Starts for Bruns_41:
(Start: 12 @32058 has 210 MA's), (Start: 16 @32028 has 1 MA's), (20, 32010), (32, 31947), (38, 31887), (43, 31824),

Gene: Burton_42 Start: 31887, Stop: 31612, Start Num: 12
Candidate Starts for Burton_42:
(2, 32100), (Start: 12 @31887 has 210 MA's), (38, 31725), (43, 31662),

Gene: Buttons_41 Start: 30867, Stop: 30580, Start Num: 12
Candidate Starts for Buttons_41:
(Start: 12 @30867 has 210 MA's), (Start: 29 @30765 has 1 MA's), (40, 30681), (43, 30630),

Gene: Bxb1_39 Start: 31929, Stop: 31642, Start Num: 12
Candidate Starts for Bxb1_39:
(Start: 12 @31929 has 210 MA's), (Start: 29 @31827 has 1 MA's), (40, 31743), (43, 31692),

Gene: CactusRose_40 Start: 31757, Stop: 31464, Start Num: 12
Candidate Starts for CactusRose_40:
(Start: 12 @31757 has 210 MA's), (21, 31697), (40, 31565), (43, 31514),

Gene: Carlyle_42 Start: 30593, Stop: 30324, Start Num: 12
Candidate Starts for Carlyle_42:
(Start: 12 @30593 has 210 MA's), (40, 30425), (43, 30374),

Gene: CartmannCramer_42 Start: 34472, Stop: 34185, Start Num: 12
Candidate Starts for CartmannCramer_42:
(Start: 12 @34472 has 210 MA's), (Start: 29 @34370 has 1 MA's), (40, 34286), (43, 34235),

Gene: CatBus_43 Start: 33346, Stop: 33059, Start Num: 12
Candidate Starts for CatBus_43:
(Start: 12 @33346 has 210 MA's), (Start: 29 @33244 has 1 MA's), (40, 33160), (43, 33109),

Gene: Chanagan_40 Start: 31424, Stop: 31164, Start Num: 12
Candidate Starts for Chanagan_40:
(Start: 12 @31424 has 210 MA's), (38, 31277), (43, 31214),

Gene: ChristmasHams_39 Start: 29874, Stop: 29578, Start Num: 12
Candidate Starts for ChristmasHams_39:
(Start: 12 @29874 has 210 MA's), (22, 29814), (36, 29724), (38, 29700),

Gene: Ciao_42 Start: 32124, Stop: 31837, Start Num: 12
Candidate Starts for Ciao_42:
(Start: 12 @32124 has 210 MA's), (Start: 29 @32022 has 1 MA's), (40, 31938), (43, 31887),

Gene: ConceptII_44 Start: 33141, Stop: 32854, Start Num: 12
Candidate Starts for ConceptII_44:
(2, 33354), (Start: 12 @33141 has 210 MA's), (Start: 29 @33039 has 1 MA's), (40, 32955), (43, 32904),

Gene: Corvo_43 Start: 32998, Stop: 32714, Start Num: 12
Candidate Starts for Corvo_43:
(Start: 12 @32998 has 210 MA's), (Start: 16 @32968 has 1 MA's), (20, 32950), (32, 32887), (38, 32827), (43, 32764),

Gene: Crispicous1_41 Start: 31747, Stop: 31478, Start Num: 12
Candidate Starts for Crispicous1_41:
(Start: 12 @31747 has 210 MA's), (40, 31579), (43, 31528),

Gene: Cueylyss_43 Start: 32715, Stop: 32416, Start Num: 11
Candidate Starts for Cueylyss_43:
(1, 32931), (Start: 11 @32715 has 1 MA's), (Start: 12 @32706 has 210 MA's), (30, 32604), (36, 32562), (38, 32538),

Gene: DD5_42 Start: 33007, Stop: 32720, Start Num: 12
Candidate Starts for DD5_42:
(Start: 12 @33007 has 210 MA's), (40, 32821), (43, 32770),

Gene: Dexes_42 Start: 32732, Stop: 32454, Start Num: 12
Candidate Starts for Dexes_42:
(2, 32945), (Start: 12 @32732 has 210 MA's), (19, 32699), (40, 32555), (43, 32504),

Gene: DirtDevil_43 Start: 33154, Stop: 32867, Start Num: 12
Candidate Starts for DirtDevil_43:
(Start: 12 @33154 has 210 MA's), (Start: 29 @33052 has 1 MA's), (40, 32968), (43, 32917),

Gene: Doom_43 Start: 32905, Stop: 32609, Start Num: 12
Candidate Starts for Doom_43:
(Start: 12 @32905 has 210 MA's), (22, 32845), (36, 32755), (38, 32731),

Gene: DrFeelGood_41 Start: 32592, Stop: 32350, Start Num: 12
Candidate Starts for DrFeelGood_41:
(3, 32802), (Start: 12 @32592 has 210 MA's), (13, 32580), (14, 32577), (40, 32451), (43, 32400),

Gene: DreamCatcher_44 Start: 33224, Stop: 32916, Start Num: 8
Candidate Starts for DreamCatcher_44:
(Start: 8 @33224 has 4 MA's), (Start: 12 @33191 has 210 MA's), (38, 33029), (43, 32966),

Gene: Dreamboat_43 Start: 31963, Stop: 31688, Start Num: 12
Candidate Starts for Dreamboat_43:
(Start: 8 @31996 has 4 MA's), (Start: 12 @31963 has 210 MA's), (38, 31801), (41, 31780), (43, 31738),

Gene: Duke13_118 Start: 65771, Stop: 65998, Start Num: 12
Candidate Starts for Duke13_118:
(Start: 12 @65771 has 210 MA's), (23, 65822), (31, 65852), (34, 65891), (37, 65897), (38, 65924), (39, 65930),

Gene: Dulcie_41 Start: 31878, Stop: 31591, Start Num: 12
Candidate Starts for Dulcie_41:
(7, 31920), (Start: 12 @31878 has 210 MA's), (Start: 29 @31776 has 1 MA's), (40, 31692), (43, 31641),

Gene: Dulcie_42 Start: 32111, Stop: 31875, Start Num: 12
Candidate Starts for Dulcie_42:
(Start: 12 @32111 has 210 MA's), (38, 31967),

Gene: Dussy_44 Start: 32576, Stop: 32283, Start Num: 12
Candidate Starts for Dussy_44:
(Start: 12 @32576 has 210 MA's), (21, 32516), (40, 32384), (43, 32333),

Gene: Dynamix_42 Start: 31903, Stop: 31601, Start Num: 9
Candidate Starts for Dynamix_42:
(Start: 9 @31903 has 21 MA's), (Start: 12 @31870 has 210 MA's), (38, 31714), (43, 31651),

Gene: Edtherson_43 Start: 33072, Stop: 32794, Start Num: 12
Candidate Starts for Edtherson_43:
(3, 33282), (Start: 12 @33072 has 210 MA's), (40, 32895), (43, 32844),

Gene: EnzoK_41 Start: 30176, Stop: 29889, Start Num: 12
Candidate Starts for EnzoK_41:
(Start: 12 @30176 has 210 MA's), (Start: 29 @30074 has 1 MA's), (40, 29990), (43, 29939),

Gene: EricMillard_115 Start: 67740, Stop: 67967, Start Num: 12
Candidate Starts for EricMillard_115:
(5, 67689), (Start: 12 @67740 has 210 MA's), (23, 67791), (31, 67821), (34, 67860), (37, 67866), (38, 67893), (39, 67899),

Gene: Espresso_42 Start: 32440, Stop: 32171, Start Num: 12
Candidate Starts for Espresso_42:
(Start: 12 @32440 has 210 MA's), (40, 32272), (43, 32221),

Gene: Euphoria_41 Start: 31928, Stop: 31635, Start Num: 12
Candidate Starts for Euphoria_41:
(Start: 12 @31928 has 210 MA's), (21, 31868), (40, 31736), (43, 31685),

Gene: Eyeball_43 Start: 32382, Stop: 32086, Start Num: 12
Candidate Starts for Eyeball_43:
(Start: 12 @32382 has 210 MA's), (22, 32322), (36, 32232), (38, 32208),

Gene: Fajezeel_44 Start: 32497, Stop: 32210, Start Num: 12
Candidate Starts for Fajezeel_44:
(Start: 12 @32497 has 210 MA's), (Start: 29 @32395 has 1 MA's), (40, 32311), (43, 32260),

Gene: Fenn_43 Start: 33821, Stop: 33534, Start Num: 12
Candidate Starts for Fenn_43:
(Start: 12 @33821 has 210 MA's), (Start: 29 @33719 has 1 MA's), (40, 33635), (43, 33584),

Gene: Forsytheast_42 Start: 32276, Stop: 31992, Start Num: 12
Candidate Starts for Forsytheast_42:
(Start: 12 @32276 has 210 MA's), (Start: 16 @32246 has 1 MA's), (20, 32228), (32, 32165), (38, 32105), (43, 32042),

Gene: Francis47_42 Start: 33244, Stop: 32948, Start Num: 12
Candidate Starts for Francis47_42:
(Start: 12 @33244 has 210 MA's), (22, 33184), (36, 33094), (38, 33070),

Gene: Froghopper_41 Start: 31912, Stop: 31643, Start Num: 12
Candidate Starts for Froghopper_41:
(Start: 12 @31912 has 210 MA's), (40, 31744), (43, 31693),

Gene: Fushigi_40 Start: 30062, Stop: 29820, Start Num: 12
Candidate Starts for Fushigi_40:
(Start: 12 @30062 has 210 MA's), (13, 30050), (14, 30047), (40, 29921), (43, 29870),

Gene: GMonster_40 Start: 31221, Stop: 30937, Start Num: 12
Candidate Starts for GMonster_40:

(Start: 12 @31221 has 210 MA's), (Start: 16 @31191 has 1 MA's), (20, 31173), (32, 31110), (38, 31050), (43, 30987),

Gene: Gachnar_43 Start: 31996, Stop: 31709, Start Num: 12
Candidate Starts for Gachnar_43:
(Start: 12 @31996 has 210 MA's), (Start: 29 @31894 has 1 MA's), (40, 31810), (43, 31759),

Gene: GageAP_43 Start: 32207, Stop: 31920, Start Num: 12
Candidate Starts for GageAP_43:
(Start: 12 @32207 has 210 MA's), (26, 32120), (Start: 29 @32105 has 1 MA's), (40, 32021), (43, 31970),

Gene: Gandalf20_43 Start: 32955, Stop: 32689, Start Num: 12
Candidate Starts for Gandalf20_43:
(Start: 12 @32955 has 210 MA's), (40, 32790), (43, 32739),

Gene: Gompeii16_42 Start: 32978, Stop: 32700, Start Num: 12
Candidate Starts for Gompeii16_42:
(Start: 12 @32978 has 210 MA's), (36, 32846), (38, 32822),

Gene: Graduation_45 Start: 33299, Stop: 33003, Start Num: 12
Candidate Starts for Graduation_45:
(Start: 12 @33299 has 210 MA's), (22, 33239), (36, 33149), (38, 33125),

Gene: GrecoEtereo_43 Start: 32600, Stop: 32331, Start Num: 12
Candidate Starts for GrecoEtereo_43:
(Start: 12 @32600 has 210 MA's), (Start: 29 @32516 has 1 MA's), (40, 32432), (43, 32381),

Gene: Greg_44 Start: 32497, Stop: 32210, Start Num: 12
Candidate Starts for Greg_44:
(Start: 12 @32497 has 210 MA's), (Start: 29 @32395 has 1 MA's), (40, 32311), (43, 32260),

Gene: GroundGoblin_43 Start: 33296, Stop: 33009, Start Num: 12
Candidate Starts for GroundGoblin_43:
(Start: 12 @33296 has 210 MA's), (Start: 29 @33194 has 1 MA's), (40, 33110), (43, 33059),

Gene: Gwendoluna_44 Start: 34030, Stop: 33788, Start Num: 12
Candidate Starts for Gwendoluna_44:
(Start: 12 @34030 has 210 MA's), (14, 34015), (40, 33889), (43, 33838),

Gene: Gyzlar_39 Start: 30598, Stop: 30311, Start Num: 12
Candidate Starts for Gyzlar_39:
(Start: 12 @30598 has 210 MA's), (Start: 29 @30496 has 1 MA's), (40, 30412), (43, 30361),

Gene: Hami1_37 Start: 27036, Stop: 26749, Start Num: 12
Candidate Starts for Hami1_37:
(Start: 12 @27036 has 210 MA's), (Start: 29 @26934 has 1 MA's), (40, 26850), (43, 26799),

Gene: HanShotFirst_41 Start: 31631, Stop: 31344, Start Num: 12
Candidate Starts for HanShotFirst_41:
(Start: 12 @31631 has 210 MA's), (Start: 29 @31529 has 1 MA's), (32, 31517), (40, 31445), (43, 31394),

Gene: HarryOW_41 Start: 31772, Stop: 31503, Start Num: 12
Candidate Starts for HarryOW_41:
(Start: 12 @31772 has 210 MA's), (Start: 29 @31688 has 1 MA's), (40, 31604), (43, 31553),

Gene: Hermia_44 Start: 33346, Stop: 33059, Start Num: 12
Candidate Starts for Hermia_44:
(Start: 12 @33346 has 210 MA's), (Start: 29 @33244 has 1 MA's), (40, 33160), (43, 33109),

Gene: HermioneGrange_42 Start: 32473, Stop: 32186, Start Num: 12
Candidate Starts for HermioneGrange_42:
(Start: 12 @32473 has 210 MA's), (40, 32287), (43, 32236),

Gene: Homines_35 Start: 28560, Stop: 28273, Start Num: 12
Candidate Starts for Homines_35:
(Start: 12 @28560 has 210 MA's), (26, 28473), (Start: 29 @28458 has 1 MA's), (40, 28374), (43, 28323),

Gene: Hope4ever_43 Start: 32649, Stop: 32377, Start Num: 9
Candidate Starts for Hope4ever_43:
(Start: 9 @32649 has 21 MA's), (14, 32604), (40, 32478), (43, 32427),

Gene: Hughesyang_123 Start: 69277, Stop: 69504, Start Num: 12
Candidate Starts for Hughesyang_123:
(5, 69226), (Start: 12 @69277 has 210 MA's), (23, 69328), (31, 69358), (34, 69397), (37, 69403), (38, 69430), (39, 69436),

Gene: ILeeKay_46 Start: 33003, Stop: 32734, Start Num: 12
Candidate Starts for ILeeKay_46:
(Start: 12 @33003 has 210 MA's), (40, 32835), (43, 32784),

Gene: ILeeKay_45 Start: 32737, Stop: 32453, Start Num: 12
Candidate Starts for ILeeKay_45:
(5, 32788), (Start: 12 @32737 has 210 MA's), (17, 32704), (38, 32575),

Gene: Ichabod_42 Start: 32035, Stop: 31742, Start Num: 9
Candidate Starts for Ichabod_42:
(Start: 9 @32035 has 21 MA's), (40, 31843), (43, 31792),

Gene: IgnatiusPatJac_41 Start: 32024, Stop: 31737, Start Num: 12
Candidate Starts for IgnatiusPatJac_41:
(Start: 12 @32024 has 210 MA's), (Start: 29 @31922 has 1 MA's), (40, 31838), (43, 31787),

Gene: Inyanga_40 Start: 31370, Stop: 31083, Start Num: 12
Candidate Starts for Inyanga_40:
(Start: 12 @31370 has 210 MA's), (Start: 29 @31268 has 1 MA's), (40, 31184), (43, 31133),

Gene: Iqorha_40 Start: 31369, Stop: 31082, Start Num: 12
Candidate Starts for Iqorha_40:
(Start: 12 @31369 has 210 MA's), (Start: 29 @31267 has 1 MA's), (40, 31183), (43, 31132),

Gene: JC27_43 Start: 32694, Stop: 32407, Start Num: 12
Candidate Starts for JC27_43:
(Start: 12 @32694 has 210 MA's), (Start: 29 @32592 has 1 MA's), (40, 32508), (43, 32457),

Gene: JackSparrow_44 Start: 32959, Stop: 32717, Start Num: 12
Candidate Starts for JackSparrow_44:
(Start: 12 @32959 has 210 MA's), (14, 32944), (40, 32818), (43, 32767),

Gene: Jasper_43 Start: 31849, Stop: 31574, Start Num: 12
Candidate Starts for Jasper_43:
(Start: 8 @31882 has 4 MA's), (Start: 12 @31849 has 210 MA's), (38, 31687), (41, 31666), (43, 31624),

Gene: Jerm2_43 Start: 32728, Stop: 32441, Start Num: 12
Candidate Starts for Jerm2_43:
(Start: 12 @32728 has 210 MA's), (40, 32542), (43, 32491),

Gene: Jorgensen_42 Start: 32074, Stop: 31832, Start Num: 12
Candidate Starts for Jorgensen_42:
(Start: 12 @32074 has 210 MA's), (14, 32059), (40, 31933), (43, 31882),

Gene: JuliaChild_43 Start: 32464, Stop: 32177, Start Num: 12
Candidate Starts for JuliaChild_43:
(Start: 12 @32464 has 210 MA's), (40, 32278), (43, 32227),

Gene: KBG_44 Start: 33689, Stop: 33393, Start Num: 12
Candidate Starts for KBG_44:
(Start: 12 @33689 has 210 MA's), (22, 33629), (36, 33539), (38, 33515),

Gene: KSSJEB_40 Start: 31672, Stop: 31355, Start Num: 10
Candidate Starts for KSSJEB_40:
(Start: 10 @31672 has 2 MA's), (Start: 29 @31540 has 1 MA's), (40, 31456), (43, 31405),

Gene: Kanely_43 Start: 32751, Stop: 32476, Start Num: 12
Candidate Starts for Kanely_43:
(Start: 12 @32751 has 210 MA's), (38, 32589),

Gene: Kenmech_46 Start: 33702, Stop: 33409, Start Num: 12
Candidate Starts for Kenmech_46:
(Start: 12 @33702 has 210 MA's), (21, 33642), (40, 33510), (43, 33459),

Gene: KikiBouba_44 Start: 33155, Stop: 32868, Start Num: 12
Candidate Starts for KikiBouba_44:
(Start: 12 @33155 has 210 MA's), (Start: 29 @33053 has 1 MA's), (40, 32969), (43, 32918),

Gene: Killigrew_42 Start: 32390, Stop: 32124, Start Num: 12
Candidate Starts for Killigrew_42:
(Start: 12 @32390 has 210 MA's), (40, 32225), (43, 32174),

Gene: Kugel_44 Start: 32894, Stop: 32625, Start Num: 12
Candidate Starts for Kugel_44:
(Start: 12 @32894 has 210 MA's), (Start: 29 @32810 has 1 MA's), (40, 32726), (43, 32675),

Gene: KyMonks1A_45 Start: 32790, Stop: 32497, Start Num: 12
Candidate Starts for KyMonks1A_45:
(Start: 12 @32790 has 210 MA's), (21, 32730), (40, 32598), (43, 32547),

Gene: Kykar_42 Start: 32080, Stop: 31793, Start Num: 12
Candidate Starts for Kykar_42:
(Start: 12 @32080 has 210 MA's), (40, 31894), (43, 31843),

Gene: Lamina13_42 Start: 31873, Stop: 31586, Start Num: 12
Candidate Starts for Lamina13_42:
(Start: 12 @31873 has 210 MA's), (26, 31786), (Start: 29 @31771 has 1 MA's), (40, 31687), (43, 31636),

Gene: Lesedi_40 Start: 31735, Stop: 31466, Start Num: 12
Candidate Starts for Lesedi_40:
(Start: 12 @31735 has 210 MA's), (40, 31567), (43, 31516),

Gene: Levia_39 Start: 31925, Stop: 31635, Start Num: 12
Candidate Starts for Levia_39:
(Start: 12 @31925 has 210 MA's), (21, 31865), (38, 31748), (43, 31685),

Gene: Licorice_45 Start: 33580, Stop: 33284, Start Num: 12
Candidate Starts for Licorice_45:
(Start: 12 @33580 has 210 MA's), (22, 33520), (36, 33430), (38, 33406),

Gene: LilBib_42 Start: 32838, Stop: 32551, Start Num: 12
Candidate Starts for LilBib_42:
(Start: 8 @32871 has 4 MA's), (Start: 12 @32838 has 210 MA's), (Start: 29 @32736 has 1 MA's), (40, 32652), (43, 32601),

Gene: Lockley_42 Start: 32169, Stop: 31882, Start Num: 12
Candidate Starts for Lockley_42:
(Start: 12 @32169 has 210 MA's), (40, 31983), (43, 31932),

Gene: Lopton_43 Start: 33670, Stop: 33383, Start Num: 12
Candidate Starts for Lopton_43:
(Start: 12 @33670 has 210 MA's), (40, 33484), (43, 33433),

Gene: LunarLander_44 Start: 32700, Stop: 32410, Start Num: 12
Candidate Starts for LunarLander_44:
(Start: 12 @32700 has 210 MA's), (30, 32598), (36, 32556), (38, 32532),

Gene: MPlant7149_41 Start: 31538, Stop: 31251, Start Num: 12
Candidate Starts for MPlant7149_41:
(Start: 12 @31538 has 210 MA's), (40, 31352), (43, 31301),

Gene: Magnar_41 Start: 32111, Stop: 31824, Start Num: 12
Candidate Starts for Magnar_41:
(Start: 12 @32111 has 210 MA's), (Start: 29 @32009 has 1 MA's), (40, 31925), (43, 31874),

Gene: Magnito_40 Start: 31519, Stop: 31256, Start Num: 12
Candidate Starts for Magnito_40:
(4, 31672), (Start: 12 @31519 has 210 MA's), (38, 31369), (43, 31306),

Gene: Makemake_42 Start: 33140, Stop: 32898, Start Num: 12
Candidate Starts for Makemake_42:
(Start: 12 @33140 has 210 MA's), (14, 33125), (40, 32999), (43, 32948),

Gene: Manatee_42 Start: 31549, Stop: 31277, Start Num: 9
Candidate Starts for Manatee_42:
(Start: 9 @31549 has 21 MA's), (14, 31504), (40, 31378), (43, 31327),

Gene: Marcell_41 Start: 32228, Stop: 31941, Start Num: 12
Candidate Starts for Marcell_41:
(Start: 12 @32228 has 210 MA's), (40, 32042), (43, 31991),

Gene: Marchy_37 Start: 28991, Stop: 28716, Start Num: 12
Candidate Starts for Marchy_37:
(Start: 12 @28991 has 210 MA's), (38, 28829), (43, 28766),

Gene: Marco3_43 Start: 32597, Stop: 32304, Start Num: 12
Candidate Starts for Marco3_43:
(Start: 8 @32630 has 4 MA's), (Start: 12 @32597 has 210 MA's), (21, 32537), (38, 32417), (43, 32354),

Gene: Marge_42 Start: 32616, Stop: 32329, Start Num: 12
Candidate Starts for Marge_42:
(Start: 12 @32616 has 210 MA's), (40, 32430), (43, 32379),

Gene: Maroc7_41 Start: 32085, Stop: 31792, Start Num: 12
Candidate Starts for Maroc7_41:
(Start: 12 @32085 has 210 MA's), (21, 32025), (40, 31893), (43, 31842),

Gene: Marsha_42 Start: 33305, Stop: 33012, Start Num: 9
Candidate Starts for Marsha_42:
(Start: 9 @33305 has 21 MA's), (38, 33125), (43, 33062),

Gene: MaryBeth_42 Start: 32218, Stop: 31931, Start Num: 12
Candidate Starts for MaryBeth_42:
(Start: 12 @32218 has 210 MA's), (Start: 29 @32116 has 1 MA's), (40, 32032), (43, 31981),

Gene: McGuire_42 Start: 31890, Stop: 31573, Start Num: 10
Candidate Starts for McGuire_42:
(Start: 10 @31890 has 2 MA's), (Start: 29 @31758 has 1 MA's), (40, 31674), (43, 31623),

Gene: McSinger_43 Start: 32592, Stop: 32317, Start Num: 12
Candidate Starts for McSinger_43:
(4, 32745), (Start: 12 @32592 has 210 MA's), (40, 32418), (43, 32367),

Gene: MetalQZJ_41 Start: 32218, Stop: 31931, Start Num: 12
Candidate Starts for MetalQZJ_41:
(Start: 12 @32218 has 210 MA's), (Start: 29 @32116 has 1 MA's), (40, 32032), (43, 31981),

Gene: Michley_41 Start: 31705, Stop: 31418, Start Num: 12
Candidate Starts for Michley_41:
(Start: 12 @31705 has 210 MA's), (26, 31618), (Start: 29 @31603 has 1 MA's), (40, 31519), (43, 31468),

Gene: MilleFeuille_41 Start: 32219, Stop: 31947, Start Num: 12
Candidate Starts for MilleFeuille_41:

(Start: 9 @32252 has 21 MA's), (Start: 12 @32219 has 210 MA's), (21, 32180), (38, 32060), (43, 31997),

Gene: Minerva_121 Start: 67878, Stop: 68105, Start Num: 12
Candidate Starts for Minerva_121:
(5, 67827), (Start: 12 @67878 has 210 MA's), (23, 67929), (31, 67959), (34, 67998), (37, 68004), (38, 68031), (39, 68037),

Gene: Mkhuseli_42 Start: 31904, Stop: 31617, Start Num: 12
Candidate Starts for Mkhuseli_42:
(Start: 12 @31904 has 210 MA's), (Start: 29 @31802 has 1 MA's), (40, 31718), (43, 31667),

Gene: Molly_43 Start: 31772, Stop: 31485, Start Num: 12
Candidate Starts for Molly_43:
(Start: 12 @31772 has 210 MA's), (40, 31586), (43, 31535),

Gene: Monet_46 Start: 34034, Stop: 33747, Start Num: 12
Candidate Starts for Monet_46:
(Start: 12 @34034 has 210 MA's), (26, 33947), (Start: 29 @33932 has 1 MA's), (40, 33848), (43, 33797),

Gene: Moose_42 Start: 32276, Stop: 31992, Start Num: 12
Candidate Starts for Moose_42:
(Start: 12 @32276 has 210 MA's), (Start: 16 @32246 has 1 MA's), (20, 32228), (32, 32165), (38, 32105), (43, 32042),

Gene: MrGordo_41 Start: 31553, Stop: 31281, Start Num: 12
Candidate Starts for MrGordo_41:
(Start: 12 @31553 has 210 MA's), (35, 31424), (38, 31394), (42, 31364), (43, 31331),

Gene: Mryolo_40 Start: 31754, Stop: 31476, Start Num: 12
Candidate Starts for Mryolo_40:
(Start: 12 @31754 has 210 MA's), (20, 31706), (Start: 29 @31655 has 1 MA's), (40, 31577), (43, 31526),

Gene: Mule_40 Start: 30066, Stop: 29797, Start Num: 12
Candidate Starts for Mule_40:
(Start: 12 @30066 has 210 MA's), (Start: 29 @29982 has 1 MA's), (40, 29898), (43, 29847),

Gene: Museum_43 Start: 31826, Stop: 31551, Start Num: 12
Candidate Starts for Museum_43:
(2, 32039), (Start: 12 @31826 has 210 MA's), (38, 31664), (43, 31601),

Gene: NEHalo_41 Start: 31803, Stop: 31510, Start Num: 12
Candidate Starts for NEHalo_41:
(Start: 12 @31803 has 210 MA's), (21, 31743), (40, 31611), (43, 31560),

Gene: Naira_43 Start: 33868, Stop: 33581, Start Num: 12
Candidate Starts for Naira_43:
(Start: 12 @33868 has 210 MA's), (Start: 29 @33766 has 1 MA's), (40, 33682), (43, 33631),

Gene: Nerujay_44 Start: 32902, Stop: 32618, Start Num: 12
Candidate Starts for Nerujay_44:

(Start: 12 @32902 has 210 MA's), (18, 32866), (25, 32824), (28, 32809), (40, 32719), (43, 32668),

Gene: Nhonho_42 Start: 32575, Stop: 32303, Start Num: 9
Candidate Starts for Nhonho_42:
(Start: 9 @32575 has 21 MA's), (14, 32530), (40, 32404), (43, 32353),

Gene: Niza_44 Start: 33243, Stop: 32980, Start Num: 12
Candidate Starts for Niza_44:
(Start: 12 @33243 has 210 MA's), (38, 33093), (43, 33030),

Gene: Norz_43 Start: 32715, Stop: 32428, Start Num: 12
Candidate Starts for Norz_43:
(Start: 12 @32715 has 210 MA's), (26, 32628), (Start: 29 @32613 has 1 MA's), (40, 32529), (43, 32478),

Gene: Noxious_44 Start: 33346, Stop: 33059, Start Num: 12
Candidate Starts for Noxious_44:
(Start: 12 @33346 has 210 MA's), (Start: 29 @33244 has 1 MA's), (40, 33160), (43, 33109),

Gene: Ohno789_43 Start: 32978, Stop: 32691, Start Num: 12
Candidate Starts for Ohno789_43:
(Start: 12 @32978 has 210 MA's), (Start: 29 @32876 has 1 MA's), (40, 32792), (43, 32741),

Gene: Oogway_40 Start: 31353, Stop: 31111, Start Num: 12
Candidate Starts for Oogway_40:
(Start: 12 @31353 has 210 MA's), (14, 31338), (40, 31212), (43, 31161),

Gene: Optimus_114 Start: 66274, Stop: 66501, Start Num: 12
Candidate Starts for Optimus_114:
(5, 66223), (Start: 12 @66274 has 210 MA's), (23, 66325), (31, 66355), (34, 66394), (37, 66400), (38, 66427), (39, 66433),

Gene: PSullivan_42 Start: 31747, Stop: 31505, Start Num: 12
Candidate Starts for PSullivan_42:
(Start: 12 @31747 has 210 MA's), (14, 31732), (40, 31606), (43, 31555),

Gene: PacerPaul_43 Start: 32611, Stop: 32315, Start Num: 12
Candidate Starts for PacerPaul_43:
(Start: 12 @32611 has 210 MA's), (22, 32551), (36, 32461), (38, 32437),

Gene: Papez_44 Start: 33929, Stop: 33642, Start Num: 12
Candidate Starts for Papez_44:
(Start: 12 @33929 has 210 MA's), (Start: 29 @33827 has 1 MA's), (40, 33743), (43, 33692),

Gene: Paphu_41 Start: 32017, Stop: 31832, Start Num: 29
Candidate Starts for Paphu_41:
(Start: 29 @32017 has 1 MA's), (40, 31933), (43, 31882),

Gene: Paraselene_40 Start: 32250, Stop: 31978, Start Num: 12
Candidate Starts for Paraselene_40:
(Start: 9 @32283 has 21 MA's), (Start: 12 @32250 has 210 MA's), (21, 32211), (38, 32091), (43, 32028),

Gene: Pari_42 Start: 31615, Stop: 31343, Start Num: 9
Candidate Starts for Pari_42:
(Start: 9 @31615 has 21 MA's), (14, 31570), (40, 31444), (43, 31393),

Gene: Parliament_41 Start: 32362, Stop: 32120, Start Num: 12
Candidate Starts for Parliament_41:
(Start: 12 @32362 has 210 MA's), (14, 32347), (40, 32221), (43, 32170),

Gene: PascalRango_42 Start: 31959, Stop: 31651, Start Num: 8
Candidate Starts for PascalRango_42:
(Start: 8 @31959 has 4 MA's), (Start: 12 @31926 has 210 MA's), (38, 31764),

Gene: PattyP_43 Start: 32119, Stop: 31841, Start Num: 12
Candidate Starts for PattyP_43:
(Start: 12 @32119 has 210 MA's), (38, 31954),

Gene: Payneful_42 Start: 31708, Stop: 31433, Start Num: 12
Candidate Starts for Payneful_42:
(Start: 12 @31708 has 210 MA's), (38, 31546), (43, 31483),

Gene: Pelly_42 Start: 32653, Stop: 32375, Start Num: 12
Candidate Starts for Pelly_42:
(3, 32863), (Start: 12 @32653 has 210 MA's), (19, 32620), (40, 32476), (43, 32425),

Gene: Pepe_39 Start: 30383, Stop: 30090, Start Num: 12
Candidate Starts for Pepe_39:
(Start: 12 @30383 has 210 MA's), (21, 30323), (40, 30191), (43, 30140),

Gene: Perseus_43 Start: 32944, Stop: 32657, Start Num: 12
Candidate Starts for Perseus_43:
(Start: 12 @32944 has 210 MA's), (Start: 29 @32842 has 1 MA's), (40, 32758), (43, 32707),

Gene: Peterson_45 Start: 34507, Stop: 34229, Start Num: 12
Candidate Starts for Peterson_45:
(Start: 12 @34507 has 210 MA's), (40, 34330), (43, 34279),

Gene: Petp2012_43 Start: 32744, Stop: 32469, Start Num: 12
Candidate Starts for Petp2012_43:
(2, 32957), (Start: 12 @32744 has 210 MA's), (38, 32582), (43, 32519),

Gene: Petruchio_42 Start: 32089, Stop: 31823, Start Num: 12
Candidate Starts for Petruchio_42:
(Start: 12 @32089 has 210 MA's), (40, 31924), (43, 31873),

Gene: PherrisBueller_42 Start: 31714, Stop: 31439, Start Num: 12
Candidate Starts for PherrisBueller_42:
(Start: 12 @31714 has 210 MA's), (38, 31552),

Gene: PhineBark_41 Start: 32943, Stop: 32653, Start Num: 12
Candidate Starts for PhineBark_41:
(Start: 12 @32943 has 210 MA's), (21, 32883), (38, 32766), (43, 32703),

Gene: Phlippers_41 Start: 33149, Stop: 32871, Start Num: 12

Candidate Starts for Phlippers_41:
(Start: 12 @33149 has 210 MA's), (36, 33017), (38, 32993),

Gene: PhrostyMug_42 Start: 32222, Stop: 31953, Start Num: 12
Candidate Starts for PhrostyMug_42:
(2, 32435), (Start: 12 @32222 has 210 MA's), (Start: 29 @32138 has 1 MA's), (40, 32054), (43, 32003),

Gene: PinkPlastic_40 Start: 31628, Stop: 31353, Start Num: 12
Candidate Starts for PinkPlastic_40:
(Start: 8 @31661 has 4 MA's), (Start: 12 @31628 has 210 MA's), (38, 31466),

Gene: Pinto_43 Start: 32048, Stop: 31785, Start Num: 12
Candidate Starts for Pinto_43:
(Start: 12 @32048 has 210 MA's), (40, 31886), (43, 31835),

Gene: Pippin_44 Start: 32541, Stop: 32254, Start Num: 12
Candidate Starts for Pippin_44:
(Start: 12 @32541 has 210 MA's), (Start: 29 @32439 has 1 MA's), (40, 32355), (43, 32304),

Gene: Pita2_45 Start: 33244, Stop: 33002, Start Num: 12
Candidate Starts for Pita2_45:
(Start: 12 @33244 has 210 MA's), (14, 33229), (40, 33103), (43, 33052),

Gene: PowerRanger_43 Start: 33283, Stop: 32996, Start Num: 12
Candidate Starts for PowerRanger_43:
(Start: 12 @33283 has 210 MA's), (Start: 29 @33181 has 1 MA's), (40, 33097), (43, 33046),

Gene: ProMouse_43 Start: 32459, Stop: 32223, Start Num: 12
Candidate Starts for ProMouse_43:
(Start: 12 @32459 has 210 MA's), (38, 32315),

Gene: ProMouse_42 Start: 32226, Stop: 31951, Start Num: 12
Candidate Starts for ProMouse_42:
(6, 32268), (Start: 12 @32226 has 210 MA's), (38, 32064), (43, 32001),

Gene: Puppet_43 Start: 32652, Stop: 32356, Start Num: 12
Candidate Starts for Puppet_43:
(Start: 12 @32652 has 210 MA's), (22, 32592), (36, 32502), (38, 32478),

Gene: QTRlifeCrisis_43 Start: 33063, Stop: 32776, Start Num: 12
Candidate Starts for QTRlifeCrisis_43:
(Start: 12 @33063 has 210 MA's), (Start: 29 @32961 has 1 MA's), (40, 32877), (43, 32826),

Gene: Raid_42 Start: 32526, Stop: 32233, Start Num: 12
Candidate Starts for Raid_42:
(Start: 12 @32526 has 210 MA's), (21, 32466), (40, 32334), (43, 32283),

Gene: Rajelicia_41 Start: 32011, Stop: 31739, Start Num: 9
Candidate Starts for Rajelicia_41:
(Start: 9 @32011 has 21 MA's), (14, 31966), (40, 31840), (43, 31789),

Gene: Rhynn_41 Start: 32026, Stop: 31754, Start Num: 9
Candidate Starts for Rhynn_41:

(Start: 9 @32026 has 21 MA's), (14, 31981), (40, 31855), (43, 31804),

Gene: RidgeCB_42 Start: 32076, Stop: 31789, Start Num: 12
Candidate Starts for RidgeCB_42:
(Start: 12 @32076 has 210 MA's), (Start: 29 @31974 has 1 MA's), (40, 31890), (43, 31839),

Gene: Ringer_43 Start: 32905, Stop: 32642, Start Num: 12
Candidate Starts for Ringer_43:
(3, 33115), (Start: 12 @32905 has 210 MA's), (40, 32743), (43, 32692),

Gene: Rohr_43 Start: 32774, Stop: 32487, Start Num: 12
Candidate Starts for Rohr_43:
(Start: 12 @32774 has 210 MA's), (40, 32588), (43, 32537),

Gene: Rubeus_42 Start: 30560, Stop: 30267, Start Num: 12
Candidate Starts for Rubeus_42:
(Start: 12 @30560 has 210 MA's), (21, 30500), (40, 30368), (43, 30317),

Gene: Rufus_43 Start: 32397, Stop: 32110, Start Num: 12
Candidate Starts for Rufus_43:
(Start: 12 @32397 has 210 MA's), (40, 32211), (43, 32160),

Gene: Ruotula_44 Start: 33384, Stop: 33091, Start Num: 12
Candidate Starts for Ruotula_44:
(Start: 12 @33384 has 210 MA's), (21, 33324), (40, 33192), (43, 33141),

Gene: Rutherferd_44 Start: 33293, Stop: 33021, Start Num: 12
Candidate Starts for Rutherferd_44:
(Start: 9 @33326 has 21 MA's), (Start: 12 @33293 has 210 MA's), (21, 33254), (38, 33134), (43, 33071),

Gene: STLscum_43 Start: 33104, Stop: 32826, Start Num: 12
Candidate Starts for STLscum_43:
(Start: 12 @33104 has 210 MA's), (20, 33056), (Start: 29 @33005 has 1 MA's), (40, 32927),

Gene: Sagefire_44 Start: 33226, Stop: 32954, Start Num: 12
Candidate Starts for Sagefire_44:
(Start: 9 @33259 has 21 MA's), (Start: 12 @33226 has 210 MA's), (21, 33187), (38, 33067), (43, 33004),

Gene: Sandaddy_42 Start: 32672, Stop: 32394, Start Num: 12
Candidate Starts for Sandaddy_42:
(Start: 12 @32672 has 210 MA's), (20, 32624), (Start: 29 @32573 has 1 MA's), (40, 32495), (43, 32444),

Gene: Sanya_42 Start: 32962, Stop: 32687, Start Num: 12
Candidate Starts for Sanya_42:
(Start: 12 @32962 has 210 MA's), (38, 32800), (43, 32737),

Gene: SarFire_41 Start: 32238, Stop: 31951, Start Num: 12
Candidate Starts for SarFire_41:
(Start: 12 @32238 has 210 MA's), (26, 32154), (27, 32145), (Start: 29 @32136 has 1 MA's), (32, 32124), (40, 32052), (43, 32001),

Gene: Scowl_42 Start: 32734, Stop: 32462, Start Num: 9
Candidate Starts for Scowl_42:
(Start: 9 @32734 has 21 MA's), (14, 32689), (40, 32563),

Gene: Seabiscuit_43 Start: 31886, Stop: 31584, Start Num: 9
Candidate Starts for Seabiscuit_43:
(Start: 9 @31886 has 21 MA's), (Start: 12 @31853 has 210 MA's), (38, 31697), (43, 31634),

Gene: Seanderson_44 Start: 33065, Stop: 32796, Start Num: 12
Candidate Starts for Seanderson_44:
(Start: 12 @33065 has 210 MA's), (26, 32996), (Start: 29 @32981 has 1 MA's), (40, 32897), (43, 32846),

Gene: ShortQueendom_38 Start: 28736, Stop: 28473, Start Num: 12
Candidate Starts for ShortQueendom_38:
(Start: 12 @28736 has 210 MA's), (40, 28574), (43, 28523),

Gene: Sibs6_43 Start: 31379, Stop: 31137, Start Num: 12
Candidate Starts for Sibs6_43:
(Start: 12 @31379 has 210 MA's), (14, 31364), (40, 31238), (43, 31187),

Gene: SkiPole_45 Start: 33095, Stop: 32808, Start Num: 12
Candidate Starts for SkiPole_45:
(Start: 12 @33095 has 210 MA's), (Start: 16 @33065 has 1 MA's), (20, 33047), (32, 32984), (38, 32921),

Gene: Slagathor_42 Start: 31936, Stop: 31664, Start Num: 9
Candidate Starts for Slagathor_42:
(Start: 9 @31936 has 21 MA's), (14, 31891), (40, 31765), (43, 31714),

Gene: Smairt_44 Start: 32800, Stop: 32504, Start Num: 12
Candidate Starts for Smairt_44:
(Start: 12 @32800 has 210 MA's), (22, 32740), (36, 32650), (38, 32626),

Gene: Snazzy_40 Start: 31803, Stop: 31540, Start Num: 12
Candidate Starts for Snazzy_40:
(Start: 12 @31803 has 210 MA's), (40, 31641), (43, 31590),

Gene: Solon_42 Start: 32559, Stop: 32266, Start Num: 12
Candidate Starts for Solon_42:
(Start: 12 @32559 has 210 MA's), (21, 32499), (40, 32367), (43, 32316),

Gene: Sorpresa_42 Start: 32674, Stop: 32396, Start Num: 12
Candidate Starts for Sorpresa_42:
(Start: 12 @32674 has 210 MA's), (20, 32626), (Start: 29 @32575 has 1 MA's), (40, 32497), (43, 32446),

Gene: SpikeBT_43 Start: 32904, Stop: 32617, Start Num: 12
Candidate Starts for SpikeBT_43:
(Start: 12 @32904 has 210 MA's), (26, 32817), (Start: 29 @32802 has 1 MA's), (40, 32718), (43, 32667),

Gene: Squee_42 Start: 32648, Stop: 32391, Start Num: 12
Candidate Starts for Squee_42:
(Start: 12 @32648 has 210 MA's), (Start: 29 @32576 has 1 MA's), (40, 32492), (43, 32441),

Gene: StewieG_40 Start: 30093, Stop: 29824, Start Num: 12
Candidate Starts for StewieG_40:
(Start: 12 @30093 has 210 MA's), (Start: 29 @30009 has 1 MA's), (40, 29925), (43, 29874),

Gene: StrongArm_41 Start: 33115, Stop: 32846, Start Num: 12
Candidate Starts for StrongArm_41:
(Start: 12 @33115 has 210 MA's), (Start: 29 @33031 has 1 MA's), (40, 32947), (43, 32896),

Gene: Sumter_40 Start: 32264, Stop: 31995, Start Num: 12
Candidate Starts for Sumter_40:
(Start: 12 @32264 has 210 MA's), (40, 32096), (43, 32045),

Gene: Sunshine924_43 Start: 31944, Stop: 31675, Start Num: 12
Candidate Starts for Sunshine924_43:
(Start: 12 @31944 has 210 MA's), (Start: 29 @31860 has 1 MA's), (40, 31776), (43, 31725),

Gene: SwissCheese_44 Start: 32776, Stop: 32492, Start Num: 12
Candidate Starts for SwissCheese_44:
(Start: 12 @32776 has 210 MA's), (Start: 16 @32746 has 1 MA's), (20, 32728), (32, 32665), (38, 32605), (43, 32542),

Gene: Switzer_42 Start: 31952, Stop: 31680, Start Num: 9
Candidate Starts for Switzer_42:
(Start: 9 @31952 has 21 MA's), (14, 31907), (40, 31781), (43, 31730),

Gene: Swole_43 Start: 31939, Stop: 31652, Start Num: 12
Candidate Starts for Swole_43:
(Start: 12 @31939 has 210 MA's), (40, 31753), (43, 31702),

Gene: Target_43 Start: 31342, Stop: 31049, Start Num: 12
Candidate Starts for Target_43:
(Start: 12 @31342 has 210 MA's), (21, 31282), (40, 31150), (43, 31099),

Gene: Tasp14_43 Start: 32497, Stop: 32210, Start Num: 12
Candidate Starts for Tasp14_43:
(Start: 12 @32497 has 210 MA's), (26, 32410), (Start: 29 @32395 has 1 MA's), (40, 32311), (43, 32260),

Gene: Teodoridan_40 Start: 31572, Stop: 31282, Start Num: 12
Candidate Starts for Teodoridan_40:
(Start: 12 @31572 has 210 MA's), (21, 31512), (38, 31395), (43, 31332),

Gene: TheloniousMonk_43 Start: 33509, Stop: 33222, Start Num: 12
Candidate Starts for TheloniousMonk_43:
(Start: 12 @33509 has 210 MA's), (26, 33422), (Start: 29 @33407 has 1 MA's), (40, 33323), (43, 33272),

Gene: Thor_41 Start: 31596, Stop: 31309, Start Num: 12
Candidate Starts for Thor_41:

(Start: 12 @31596 has 210 MA's), (26, 31512), (27, 31503), (Start: 29 @31494 has 1 MA's), (32, 31482), (40, 31410), (43, 31359),

Gene: ThreeRngTarjay_119 Start: 69222, Stop: 69449, Start Num: 12
Candidate Starts for ThreeRngTarjay_119:
(5, 69171), (Start: 12 @69222 has 210 MA's), (23, 69273), (31, 69303), (34, 69342), (37, 69348), (38, 69375), (39, 69381),

Gene: Topgun_42 Start: 32088, Stop: 31810, Start Num: 12
Candidate Starts for Topgun_42:
(Start: 12 @32088 has 210 MA's), (36, 31956), (38, 31932),

Gene: Tote_38 Start: 29206, Stop: 28919, Start Num: 12
Candidate Starts for Tote_38:
(Start: 12 @29206 has 210 MA's), (40, 29020), (43, 28969),

Gene: Traft412_43 Start: 33023, Stop: 32742, Start Num: 12
Candidate Starts for Traft412_43:
(Start: 12 @33023 has 210 MA's), (Start: 29 @32921 has 1 MA's), (40, 32843), (43, 32792),

Gene: Treddle_44 Start: 33543, Stop: 33265, Start Num: 12
Candidate Starts for Treddle_44:
(3, 33753), (Start: 12 @33543 has 210 MA's), (40, 33366), (43, 33315),

Gene: Tripl3t_42 Start: 32942, Stop: 32670, Start Num: 9
Candidate Starts for Tripl3t_42:
(Start: 9 @32942 has 21 MA's), (14, 32897), (40, 32771), (43, 32720),

Gene: Trouble_43 Start: 33193, Stop: 32909, Start Num: 12
Candidate Starts for Trouble_43:
(3, 33403), (Start: 12 @33193 has 210 MA's), (26, 33109), (40, 33010), (43, 32959),

Gene: Turj99_40 Start: 31789, Stop: 31526, Start Num: 12
Candidate Starts for Turj99_40:
(4, 31942), (Start: 12 @31789 has 210 MA's), (38, 31639), (43, 31576),

Gene: TwoPeat_42 Start: 32242, Stop: 31970, Start Num: 9
Candidate Starts for TwoPeat_42:
(Start: 9 @32242 has 21 MA's), (14, 32197), (40, 32071), (43, 32020),

Gene: U2_41 Start: 31935, Stop: 31663, Start Num: 9
Candidate Starts for U2_41:
(Start: 9 @31935 has 21 MA's), (14, 31890), (33, 31818), (40, 31764), (43, 31713),

Gene: Violet_40 Start: 32375, Stop: 32088, Start Num: 12
Candidate Starts for Violet_40:
(Start: 12 @32375 has 210 MA's), (Start: 29 @32273 has 1 MA's), (40, 32189), (43, 32138),

Gene: Watermelon_44 Start: 32965, Stop: 32696, Start Num: 12
Candidate Starts for Watermelon_44:
(Start: 12 @32965 has 210 MA's), (Start: 29 @32881 has 1 MA's), (40, 32797), (43, 32746),

Gene: Wheeler_43 Start: 32673, Stop: 32386, Start Num: 12

Candidate Starts for Wheeler_43:
(Start: 12 @32673 has 210 MA's), (Start: 29 @32571 has 1 MA's), (40, 32487), (43, 32436),

Gene: Whitspit_40 Start: 30389, Stop: 30120, Start Num: 12
Candidate Starts for Whitspit_40:
(Start: 12 @30389 has 210 MA's), (Start: 29 @30305 has 1 MA's), (40, 30221), (43, 30170),

Gene: Wilkins_42 Start: 32021, Stop: 31743, Start Num: 12
Candidate Starts for Wilkins_42:
(Start: 12 @32021 has 210 MA's), (36, 31889), (38, 31865),

Gene: Zeeculate_41 Start: 32615, Stop: 32361, Start Num: 16
Candidate Starts for Zeeculate_41:
(15, 32621), (Start: 16 @32615 has 1 MA's), (38, 32474), (42, 32444), (43, 32411),

Gene: Zelink_118 Start: 69169, Stop: 69396, Start Num: 12
Candidate Starts for Zelink_118:
(5, 69118), (Start: 12 @69169 has 210 MA's), (23, 69220), (31, 69250), (34, 69289), (37, 69295), (38, 69322), (39, 69328),

Gene: Zephyr_42 Start: 32359, Stop: 32072, Start Num: 12
Candidate Starts for Zephyr_42:
(Start: 12 @32359 has 210 MA's), (Start: 29 @32257 has 1 MA's), (40, 32173), (43, 32122),

Gene: Zeuska_42 Start: 32583, Stop: 32314, Start Num: 12
Candidate Starts for Zeuska_42:
(Start: 12 @32583 has 210 MA's), (Start: 29 @32499 has 1 MA's), (40, 32415), (43, 32364),